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TITLE*: CALCOLI PRELIMINARI CABINE ELETTRICHE SS** ***AVAILABLE LANGUAGE: **IT**

IMPIANTO EOLICO SINDIA

CALCOLI PRELIMINARI CABINE ELETTRICHE SS

Il Tecnico

Ing. Leonardo Sblendido

File: GRE.EEC.R.24.IT.W.15066.00.004.00_Calcoli preliminari Cabine Elettriche SS.pdf

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ENEL VALIDATION

COLLABORATORS	VERIFIED BY	VALIDATED BY
	G.Buonomo/P.Torchio	*D.Napoli*

PROJECT / PLANT	*ENEL CODE*																		
SINDIA	*GROUP*	*FUNCION*	*TYPE*	*ISSUER*		*COUNTRY*		*TEC*	*PLANT*					*SYSTEM*		*PROGRESSIVE*			*REVISION*
	GRE	**EEC**	**R**	**7**	**4**	**I**	**T**	**W**	**1**	**5**	**0**	**6**	**6**	**0**	**0**	**0**	**0**	**4**	**0**	**0**

CLASSIFICATION	*UTILIZATION SCOPE*

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1. Premessa

La presente relazione preliminare di calcolo strutturale, in conformità al §10.1 del DM 17/01/18, è comprensiva di una descrizione generale dell'opera e dei criteri generali di analisi e verifica. Segue inoltre le indicazioni fornite al §10.2 del DM stesso per quanto concerne analisi e verifiche svolte con l'ausilio di codici di calcolo.

Le opere oggetto delle verifiche strutturali di questa relazione, sono gli edifici di stazione annessi all'impianto Eolico "SINDIA" proposto da Enel Green Power Italia S.r.l., ubicati nel comune di Macomer (NU). In particolare, si riportano i risultati delle analisi svolte sugli edifici denominati:

- Edificio di stazione Stallo AT;

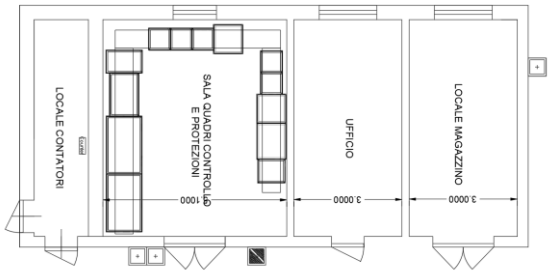


Figura 1: pianta edificio stazione stallo AT

- Edificio di stazione Stallo Trasformatore.

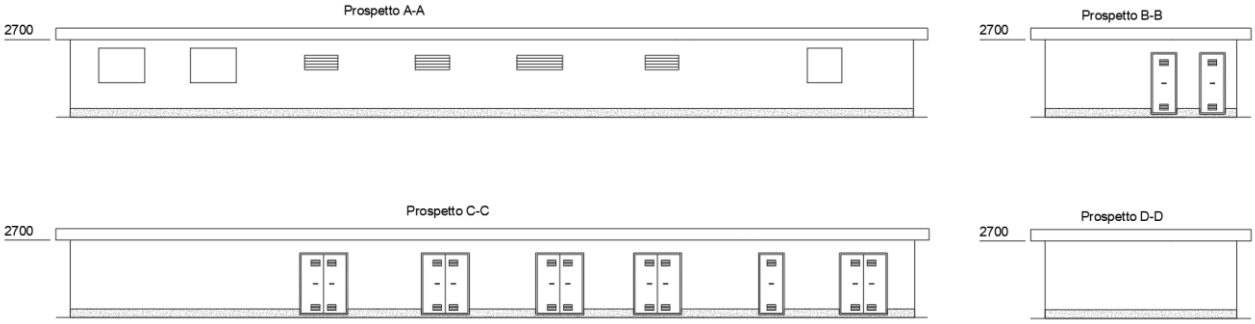


Figura 2: prospetti Edificio di stazione stallo Trasformatore

I risultati inerenti le analisi effettuate sono riportati per esteso negli allegati della presente relazione.

2. Conclusioni

Considerato quanto allegato, le strutture risultano essere idonee allo scopo per le quali sono state progettate. Si precisa ancora una volta che il calcolo ha carattere preliminare, dovrà essere verificato in fase esecutiva considerando i carichi effettivamente trasmessi. Analogamente si rimandano le verifiche geotecniche alla fase esecutiva.

ALLEGATO 1 – Tabulati di Calcolo Edificio di stazione Stallo Traformatore

3. Descrizione generale dell'opera

Descrizione generale dell'opera	
Fabbricato ad uso	
Ubicazione	Comune di MACOMER (NU) (Regione SARDEGNA)
	Località MACOMER (NU)
	Longitudine 8.779, Latitudine 40.265
Numero di piani	Fuori terra
	Interrati
	le dimensioni dell'opera in pianta sono racchiuse in un rettangolo di
Numero vani scale	
Numero vani ascensore	
Tipo di fondazione	

Principali caratteristiche della struttura	
Struttura regolare in pianta	
Struttura regolare in altezza	
Classe di duttilità	
Travi: ricalate o in spessore	
Pilastri	
Pilastri in falso	
Tipo di fondazione	
Condizioni per cui è necessario considerare la componente verticale del sisma	

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
IV	50.0	2.0	100.0

Fattore di struttura/comportamento
Edificio in Elevazione: qSLU x=3.3 qSLU y=3.3 Fondazione: q=1

3.1. Quadro normativo di riferimento adottato

Le norme ed i documenti assunti quale riferimento per la progettazione strutturale vengono indicati di seguito.

Nel capitolo “normativa di riferimento” è comunque presente l’elenco completo delle normative disponibili.

Progetto-verifica degli elementi	
Progetto cemento armato	D.M. 17-01-2018
Progetto acciaio	D.M. 17-01-2018
Progetto legno	D.M. 17-01-2018
Progetto muratura	D.M. 17-01-2018
Azione sismica	
Norma applicata per l’ azione sismica	D.M. 17-01-2018

3.2. Azioni di progetto sulla costruzione

Nei capitoli “modellazione delle azioni” e “schematizzazione dei casi di carico” sono indicate le azioni sulla costruzioni.

Nel prosieguo si indicano tipo di analisi strutturale condotta (statico,dinamico, lineare o non lineare) e il metodo adottato per la risoluzione del problema strutturale nonché le metodologie seguite per la verifica o per il progetto-verifica delle sezioni. Si riportano le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti; le configurazioni studiate per la struttura in esame *sono risultate effettivamente esaustive per la progettazione-verifica.*

La verifica della sicurezza degli elementi strutturali avviene con i metodi della scienza delle costruzioni. L’analisi strutturale è condotta con il metodo degli spostamenti per la valutazione dello stato tensodeformativo indotto da carichi statici. L’analisi strutturale è condotta con il metodo dell’analisi modale e dello spettro di risposta in termini di accelerazione per la valutazione dello stato tensodeformativo indotto da carichi dinamici (tra cui quelli di tipo sismico).

L’analisi strutturale viene effettuata con il metodo degli elementi finiti. Il metodo sopraindicato si basa sulla schematizzazione della struttura in elementi connessi solo in corrispondenza di un numero prefissato di punti denominati nodi. I nodi sono definiti dalle tre coordinate cartesiane in un sistema di riferimento globale. Le incognite del problema (nell’ambito del metodo degli spostamenti) sono le componenti di spostamento dei nodi riferite al sistema di riferimento globale (traslazioni secondo X, Y, Z, rotazioni attorno X, Y, Z). La soluzione del problema si ottiene con un sistema di equazioni algebriche lineari i cui termini noti sono costituiti dai carichi agenti sulla struttura opportunamente concentrati ai nodi:

K * u = F dove **K** = matrice di rigidezza

u = vettore spostamenti nodali

F = vettore forze nodali

Dagli spostamenti ottenuti con la risoluzione del sistema vengono quindi dedotte le sollecitazioni e/o le tensioni di ogni elemento, riferite generalmente ad una terna locale all’elemento stesso.

Il sistema di riferimento utilizzato è costituito da una terna cartesiana destrorsa XYZ. Si assume l’asse Z verticale ed orientato verso l'alto.

Gli elementi utilizzati per la modellazione dello schema statico della struttura sono i seguenti:

Elemento tipo ***TRUSS*** (biella-D2)

Elemento tipo ***BEAM*** (trave-D2)

Elemento tipo ***MEMBRANE*** (membrana-D3)

Elemento tipo ***PLATE*** (piastra-guscio-D3)

Elemento tipo ***BOUNDARY*** (molla)

Elemento tipo ***STIFFNESS*** (matrice di rigidezza)

Elemento tipo ***BRICK*** (elemento solido)

Elemento tipo ***SOLAIO*** (macro elemento composto da più membrane)

3.3. Modello numerico

In questa parte viene descritto il modello numerico utilizzato (o i modelli numerici utilizzati) per l'analisi della struttura. La presentazione delle informazioni deve essere, coerentemente con le prescrizioni del paragrafo 10.2 e relativi sottoparagrafi delle NTC-18, tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità

Tipo di analisi strutturale	
Carichi verticali	SI
Statica non lineare	NO
Sismica statica lineare	NO
Sismica dinamica lineare	SI
Sismica statica non lineare (prop. masse)	NO
Sismica statica non lineare (prop. modo)	NO
Sismica statica non lineare (triangolare)	NO
Non linearità geometriche (fattore P delta)	NO

Di seguito si indicano l'origine e le caratteristiche dei codici di calcolo utilizzati riportando titolo, produttore e distributore, versione, estremi della licenza d'uso:

3.3.1. Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2020-01-187)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Codice Licenza:	Licenza dsi5451

Un attento esame preliminare della documentazione a corredo del software ***ha consentito di valutarne l'affidabilità e soprattutto l'idoneità al caso specifico***. La documentazione, fornita dal produttore e distributore del software, contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione dei campi d'impiego, nonché casi prova interamente risolti e commentati, corredati dei file di input necessari a riprodurre l'elaborazione:

Affidabilità dei codici utilizzati
2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche. E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: https://www.2si.it/it/prodotti/affidabilita/

Modellazione della geometria e proprietà meccaniche:	
nodi	1078
elementi D2 (per aste, travi, pilastri…)	41
elementi D3 (per pareti, platee, gusci…)	975
elementi solaio	20
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	-50.00
Xmax =	3050.00
Ymin =	-50.00
Ymax =	679.98
Zmin =	0.00
Zmax =	300.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	SI
Pareti	NO
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	NO
Travi	SI
Gusci	NO
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	NO
Solai senza la proprietà piano rigido	SI
Tipo di vincoli:	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	NO
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	SI
Fondazioni con elementi solidi	NO

3.4. Modellazione delle azioni

Si veda il capitolo **"Schematizzazione dei casi di carico"** per le informazioni necessarie alla comprensione ed alla ricostruzione delle azioni applicate al modello numerico, coerentemente con quanto indicato nella parte *"2.6. Azioni di progetto sulla costruzione"*.

3.5. Combinazioni e/o percorsi di carico

Si veda il capitolo **"Definizione delle combinazioni"** in cui sono indicate le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti.

Combinazioni dei casi di carico	
APPROCCIO PROGETTUALE	Approccio 2
Tensioni ammissibili	NO
SLU	SI
SLV (SLU con sisma)	SI
SLC	NO
SLD	SI
SLO	NO
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	NO
SLA (accidentale quale incendio)	NO

Principali risultati

I risultati devono costituire una sintesi completa ed efficace, presentata in modo da riassumere il comportamento della struttura, per ogni tipo di analisi svolta.

Nella presente relazione di calcolo sono riportati i seguenti risultati che il progettista ritiene di interesse per la descrizione e la compresione del/i modello/i e del comportamento della struttura:

per l'analisi modale:

- periodi dei modi di vibrare della struttura
- masse eccitate dai singoli modi
- massa eccitata totale

deformate e sollecitazioni:

- spostamenti e rotazioni dei singoli nodi della struttura
- reazioni vincolari (nel caso siano presenti nodi vincolati rigidamente)
- pressioni sul terreno (nel caso siano presenti elementi di fondazione)
- sollecitazioni sugli elementi d2 nelle combinazioni di calcolo più significative

- tensioni sugli elementi d3 nelle combinazioni di calcolo più significative
- sollecitazioni sui macroelementi da elementi d3 nelle combinazioni di calcolo più significative

La presente relazione, oltre ad illustrare in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare, riporta una serie di immagini:

per i dati in ingresso:

- modello solido della struttura
- numerazione di nodi e ed elementi
- configurazioni di carico statiche
- configurazioni di carico sismiche con baricentri delle masse e eccentricità

per le combinazioni più significative (statisticamente più gravose per la struttura):

- configurazioni deformate
- diagrammi e inviluppi delle azioni interne
- mappe delle tensioni
- reazioni vincolari
- mappe delle pressioni sul terreno

per il progetto-verifica degli elementi:

- diagrammi di armatura
- percentuali di sfruttamento
- mappe delle verifiche più significative per i vari stati limite

Informazioni generali sull'elaborazione e giudizio motivato di accettabilità dei risultati.

Il programma prevede una serie di controlli automatici (check) che consentono l'individuazione di errori di modellazione. Al termine dell'analisi un controllo automatico identifica la presenza di spostamenti o rotazioni abnormi. Si può pertanto asserire che l' elaborazione sia corretta e completa. I risultati delle elaborazioni sono stati sottoposti a controlli che ne comprovano l'attendibilità. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali e adottati, anche in fase di primo proporzionamento della struttura. Inoltre, sulla base di considerazioni riguardanti gli stati tensionali e deformativi determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni. Si allega al termine della presente relazione elenco sintetico dei controlli svolti (verifiche di equilibrio tra reazioni vincolari e carichi applicati, comparazioni tra i risultati delle analisi e quelli di valutazioni semplificate, etc.) .

3.6. Verifiche agli stati limite ultimi

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU vengono indicate, con riferimento alla normativa adottata, le modalità ed i criteri seguiti per valutare la sicurezza della struttura nei confronti delle possibili situazioni di crisi ed i risultati delle valutazioni svolte. In via generale, oltre alle verifiche di resistenza e di spostamento, devono essere prese in considerazione verifiche nei confronti dei fenomeni di instabilità, locale e globale, di fatica, di duttilità, di degrado.

3.7. Verifiche agli stati limite di esercizio

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLE vengono indicate, con riferimento alla normativa adottata, le modalità seguite per valutare l'affidabilità della struttura nei confronti delle possibili situazioni di perdita di funzionalità (per eccessive deformazioni, fessurazioni, vibrazioni, etc.) ed i risultati delle valutazioni svolte.

3.8. RELAZIONE SUI MATERIALI

Il capitolo Materiali riportata informazioni esaustive relative all'elenco dei materiali impiegati e loro modalità di posa in opera e ai valori di calcolo.

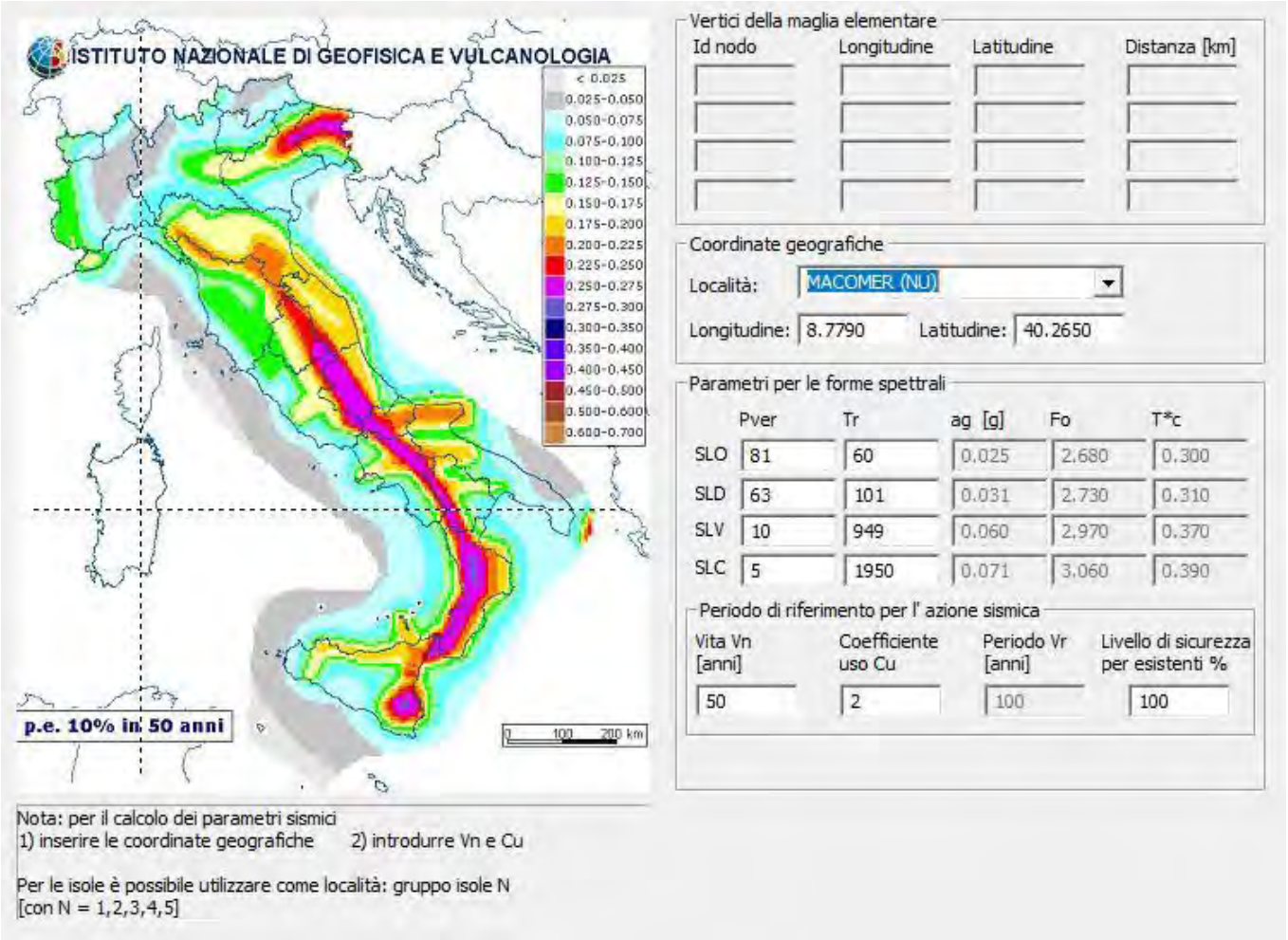
4. NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
2. Circolare 21/01/19, n. 7 C.S.LL.PP "Istruzioni per l'applicazione dell'aggiornamento delle Norme Tecniche delle Costruzioni di cui al decreto ministeriale 17 gennaio 2018"
3. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
4. D.M. LL.PP. 9 Gennaio 1996 "Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche".
5. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>".
6. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
7. Circolare 4/07/96, n.156AA.GG./STC. istruzioni per l'applicazione delle "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>" di cui al D.M. 16/01/96.
8. Circolare 10/04/97, n.65AA.GG. istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/96.
9. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
10. Circolare 4 Gennaio 1989 n. 30787 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
11. D.M. LL.PP. 11 Marzo 1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione".
12. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
13. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
14. Ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003 "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e successive modificazioni e integrazioni.
15. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
16. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici.
17. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
18. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
19. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
20. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
21. UNI EN 1992-1-1:2005 24/11/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
22. UNI EN 1992-1-2:2005 01/04/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-2: Regole generali - Progettazione strutturale contro l'incendio.
23. UNI EN 1993-1-1:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici.
24. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
25. UNI EN 1994-1-1:2005 01/03/2005 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
26. UNI EN 1994-2:2006 12/01/2006 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 2: Regole generali e regole per i ponti.
27. UNI EN 1995-1-1:2005 01/02/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali – Regole comuni e regole per gli edifici.
28. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
29. UNI EN 1996-1-1:2006 26/01/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 1-1: Regole generali per strutture di muratura armata e non armata.
30. UNI EN 1996-3:2006 09/03/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 3: Metodi

di calcolo semplificato per strutture di muratura non armata.

31. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
32. UNI EN 1998-1:2005 01/03/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
33. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.
34. UNI EN 1998-5:2005 01/01/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.

NOTA il capitolo "normativa di riferimento": riporta l' elenco delle normative implementate nel software. Le norme utilizzate per la struttura oggetto della presente relazione sono indicate nel precedente capitolo "RELAZIONE DI CALCOLO STRUTTURALE" "ANALISI E VERIFICHE SVOLTE CON L'AUSILIO DI CODICI DI CALCOLO". Laddove nei capitoli successivi vengano richiamate norme antecedenti al DM 17.01.18 è dovuto o a progettazione simulata di edifico esistente.



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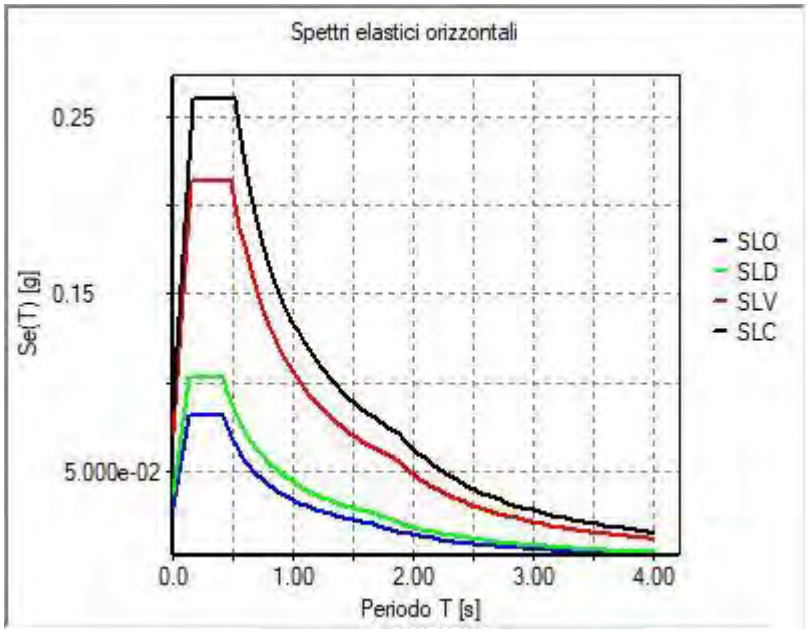

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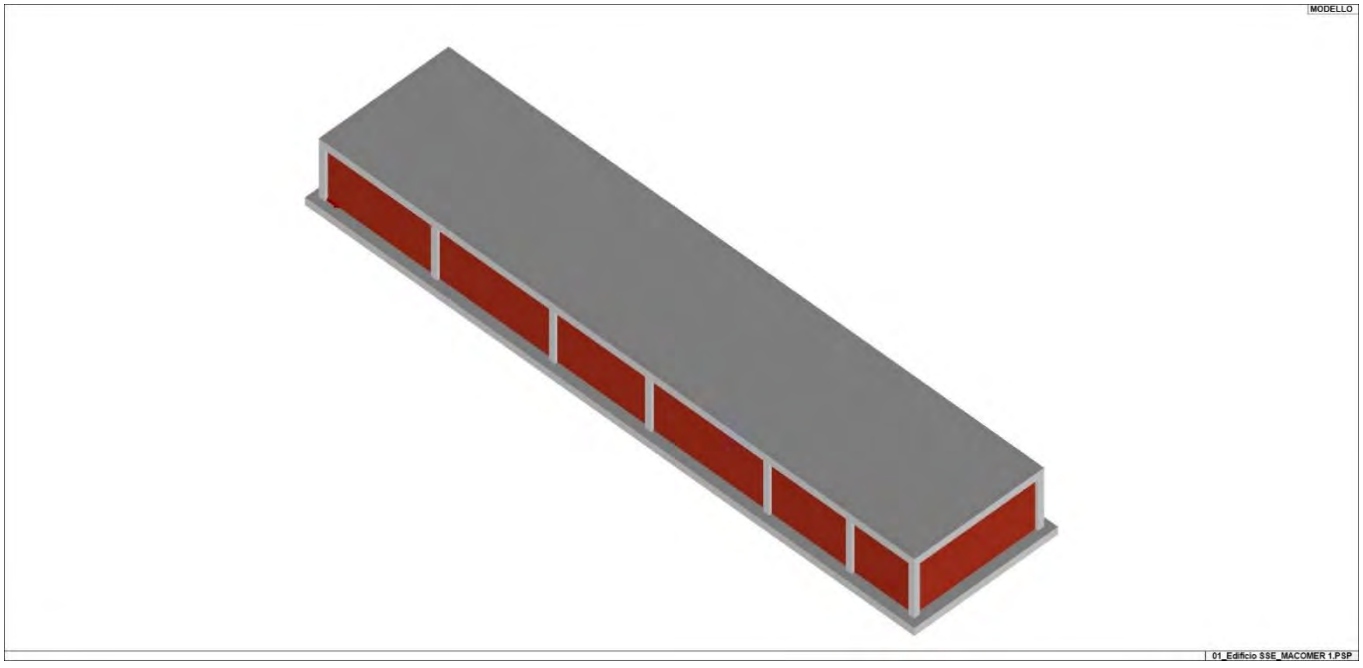
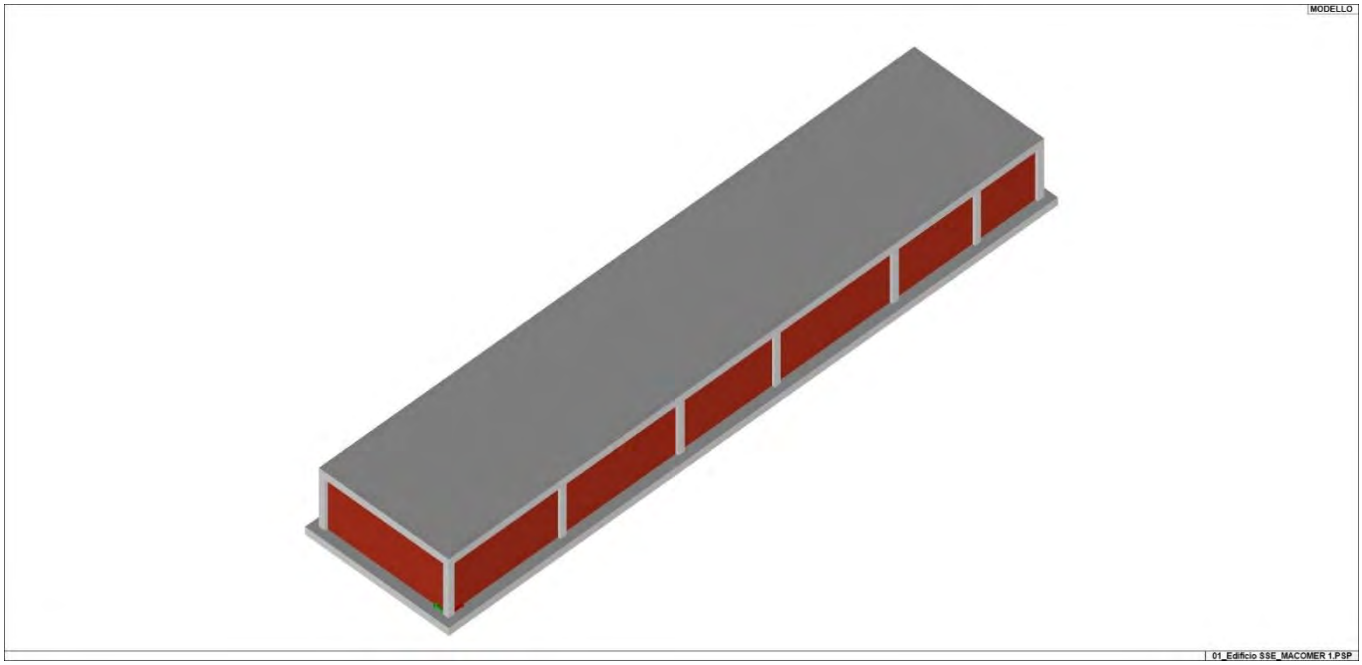
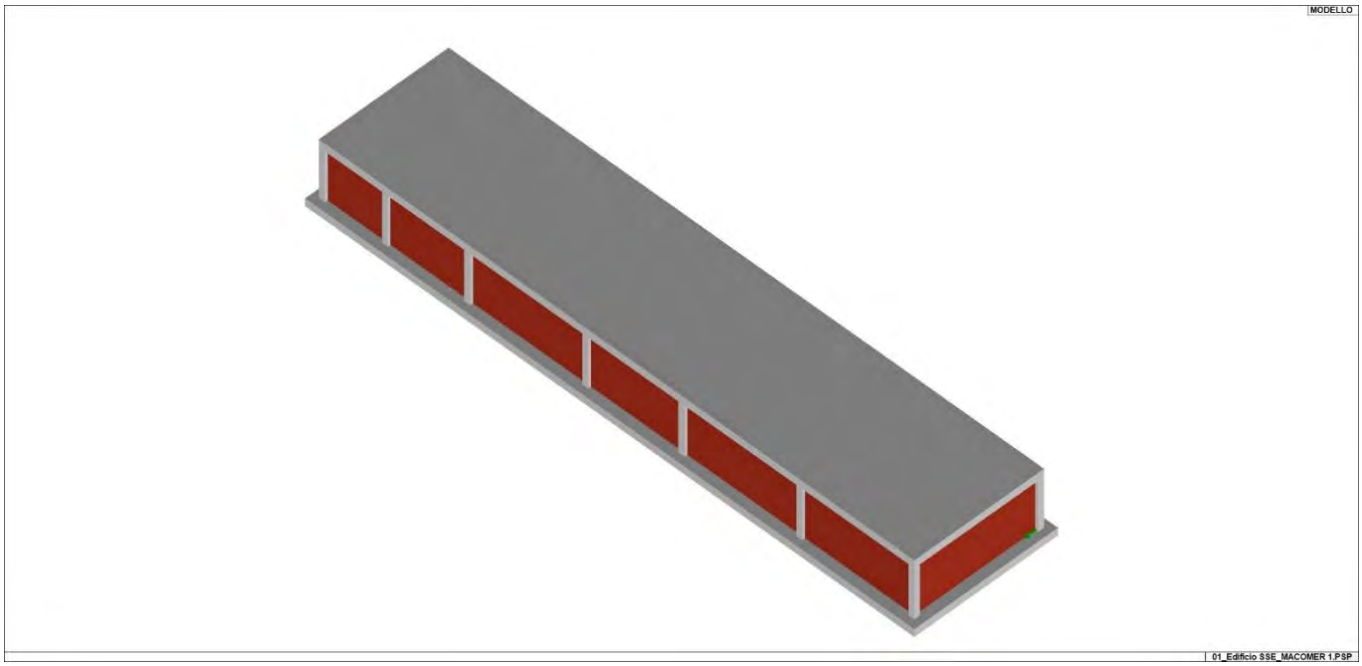


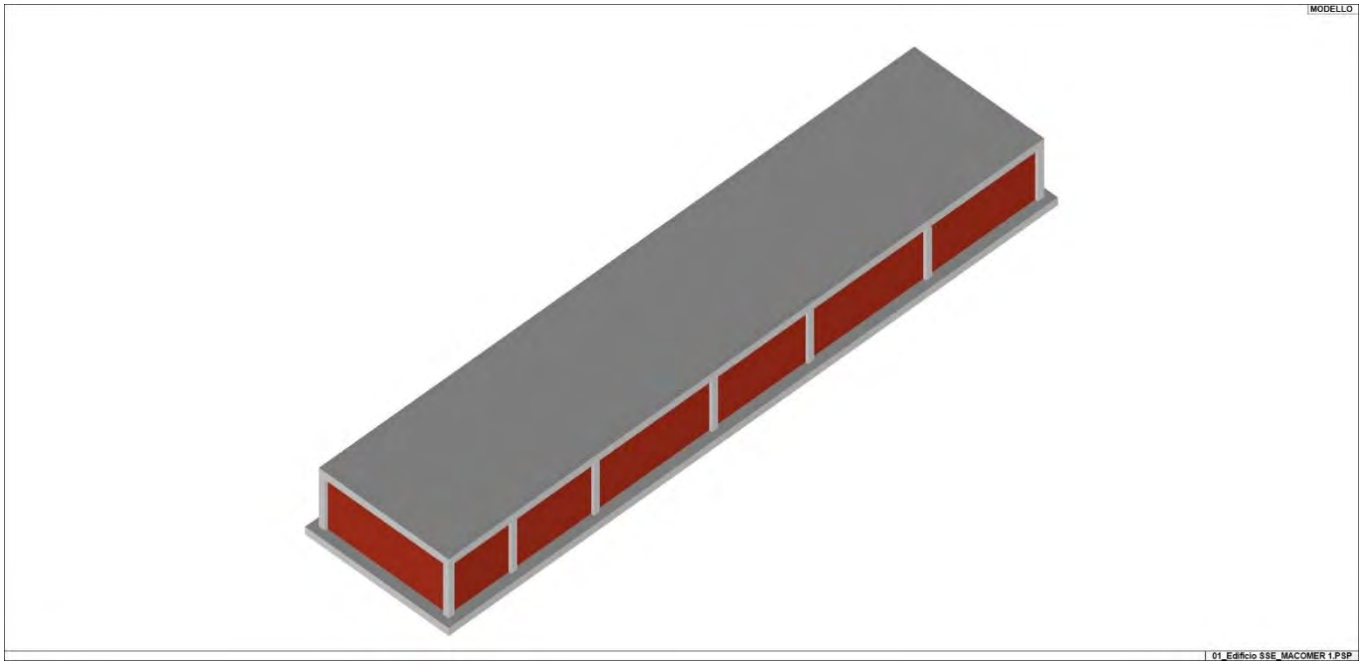
01_INT_VISTA_SOLIDA_001



01_INT_VISTA_SOLIDA_002



01_INT_VISTA_SOLIDA_003



01_INT_VISTA_SOLIDA_004

5. CARATTERISTICHE MATERIALI UTILIZZATI

5.1. LEGENDA TABELLA DATI MATERIALI

Il programma consente l'uso di materiali diversi. Sono previsti i seguenti tipi di materiale:

1	materiale tipo cemento armato
2	materiale tipo acciaio
3	materiale tipo muratura
4	materiale tipo legno
5	materiale tipo generico

I materiali utilizzati nella modellazione sono individuati da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni materiale vengono riportati in tabella i seguenti dati:

Young	modulo di elasticità normale E
Poisson	coefficiente di contrazione trasversale ni
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica
Fattore di confidenza FC m	Fattore di confidenza specifico per materiale; (è riportato solo se diverso da quello globale della struttura)
Fattore di confidenza FC a	Fattore di confidenza specifico per l'armatura (è riportato solo se diverso da quello globale della struttura)
Elasto-plastico	Materiale elastico perfettamente plastico per aste non lineari
Massima compressione	Massima tensione di compressione per aste non lineari
Massima trazione	Massima tensione di trazione per aste non lineari
Fattore attrito	Coefficinete di attrito per aste non lineari
Rapporto HRDb	Rapporto di hardening a flessione
Rapporto HRDv	Rapporto di hardening a taglio

I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	cemento armato		
		Resistenza Rc	resistenza a cmpressione cubica
		Resistenza fctm	resistenza media a trazione semplice
		Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio		
		Tensione ft	Valore della tensione di rottura
		Tensione fy	Valore della tensione di snervamento
		Resistenza fd	Resistenza di calcolo per SL CNR-UNI 10011
		Resistenza fd (>40)	Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm
		Tensione ammissibile	Tensione ammissibile CNR-UNI 10011
		Tensione ammissibile (>40)	Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura		
		Muratura consolidata	Muratura per la quale si prevedono interventi di rinforzo"
		Incremento resistenza	Incremento conseguito in termini di resistenza
		Incremento rigidezza	Incremento conseguito in termini di rigidezza
		Resistenza f	Valore della resistenza a compressione
		Resistenza fv0	Valore della resistenza a taglio in assenza di tensioni normali
		Resistenza fh	Valore della resistenza a compressione orizzontale
		Resistenza fb	Valore della resistenza a compressione dei blocchi
		Resistenza fbh	Valore della resistenza a compressione dei blocchi in direzione orizzontale
		Resistenza fv0h	Valore della resistenza a taglio in assenza di tensioni normali per le travi
		Resistenza ft	Valore della resistenza a trazione per fessurazione diagonale

	Resistenza fvlim	Valore della massima resistenza a taglio
	Resistenza fbt	Valore della resistenza a trazione dei blocchi
	Coefficiente mu	Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4)
	Coefficiente fi	Coefficiente d'ingranamento utilizzato per la resistenza a taglio
	Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4 legno		
	E0,05	Modulo di elasticità corrispondente ad un frattile del 5%
	Resistenza fc0	Valore della resistenza a compressione parallela
	Resistenza ft0	Valore della resistenza a trazione parallela
	Resistenza fm	Valore della resistenza a flessione
	Resistenza fv	Valore della resistenza a taglio
	Resist. ft0k	Resistenza caratteristica (tensione amm. per REGLES) per trazione
	Resist. fmk	Resistenza caratteristica (tensione amm. per REGLES) per flessione
	Resist. fvk	Resistenza caratteristica (tensione amm. per REGLES) per taglio
	Modulo E0,05	Modulo elastico parallelo caratteristico
	Lamellare	lamellare o massiccio

Nel tabulato si riportano sia i valori caratteristici che medi utilizzando gli uni e/o gli altri in relazione alle richieste di normativa ed alla tipologia di verifica. (Cap.7 NTC18 per materiali nuovi, Cap.8 NTC18 e relativa circolare 21/01/2019 per materiali esistenti, Linee Guida Reluis per incamiciatura CAM, CNR-DT 200 per interventi con FRP)

Vengono inoltre riportate le tabelle contenenti il riassunto delle informazioni assegnate nei criteri di progetto in uso.

Con riferimento al **Documento di Affidabilità** “Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST” - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Modellazione di strutture in c.a.

Test N°	Titolo
41	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
42	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.

43	VERIFICA ALLE TA DI STRUTTURE IN C.A.
44	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
45	VERIFICA A PUNZONAMENTO ALLO SLU DI PIASTRE IN C.A.
46	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
47	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
49	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
50	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
51	FATTORE DI STRUTTURA
52	SOVRARESISTENZE
53	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
54	PARETI IN C.A. SNELLE IN ZONA SISMICA
80	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
120	PROGETTO E VERIFICA DI TRAVI PREM

Modellazione di strutture in acciaio

Test N°	Titolo
55	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
56	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
57	LUCE LIBERA DI COLONNE IN ACCIAIO
58	SVERGOLAMENTO DI TRAVI IN ACCIAIO
59	FATTORE DI STRUTTURA
60	ACCIAIO D.M.2008
61	ACCIAIO EC3
62	GERARCHIA RESISTENZE STRUTTURE IN ACCIAIO
63	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA IRRIGIDIMENTI TRASVERSALI

74	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI UN PIATTO DI RINFORZO SALDATO ALL'ANIMA DELLA COLONNA
75	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI DUE PIATTI DI RINFORZO SALDATI ALL'ANIMA DELLA COLONNA
76	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A DUE VIE SU ALI COLONNA
77	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A UNA VIA CON DUE COMBINAZIONI DI CARICO
78	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO SU ANIMA SENZA RINFORZI A QUATTRO FILE DI BULLONI DI CUI UNA SU PIASTRA INFERIORE E UNA SU PIASTRA SUPERIORE
79	VERIFICA DELLA PIASTRA NODO TRAVE COLONNA
85	TELAIO ACCIAIO: CONTROVENTI CONCENTRICI

Modellazione di strutture in muratura

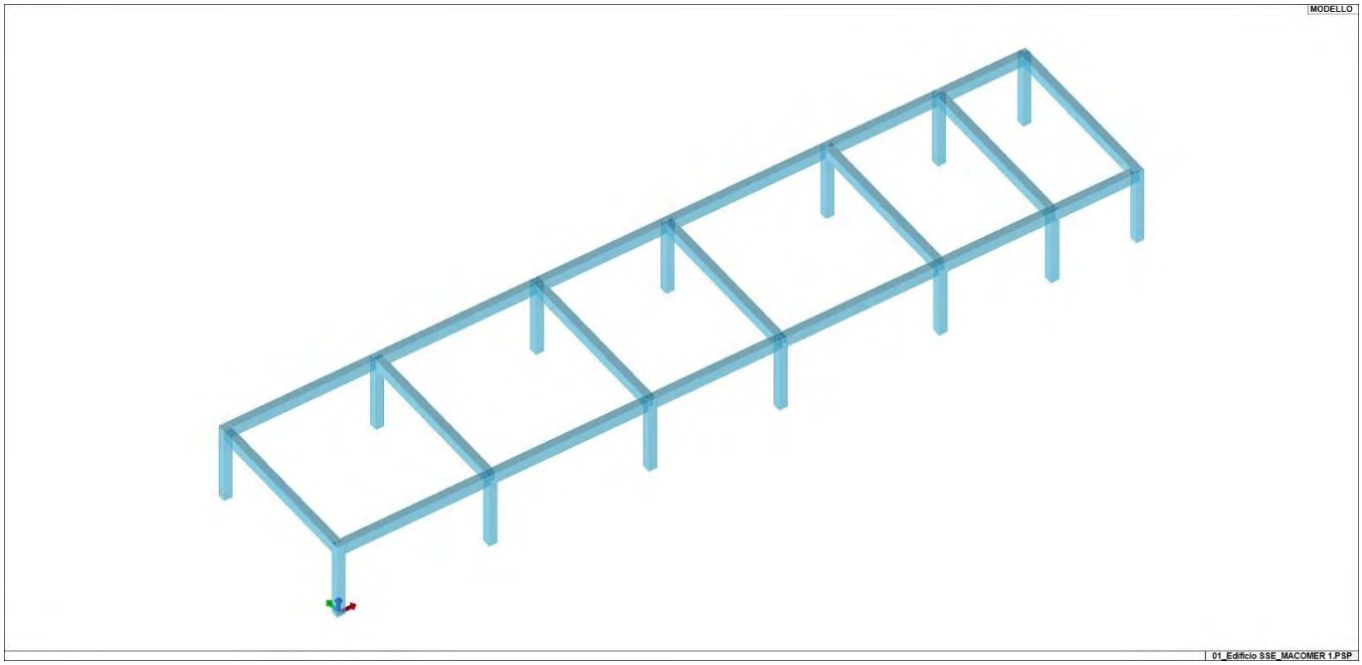
Test N°	Titolo
81	ANALISI PUSHOVER DI UNA STRUTTURA IN MURATURA
84	ANALISI ELASTO PLASTICA INCREMENTALE, PARETE IN MURATURA
86	VERIFICA NON SISMICA DELLE MURATURE (D.M. 87 TA)
87	VERIFICA NON SISMICA DELLE MURATURE (D.M. 2005 SL)
88	FATTORE DI STRUTTURA

Modellazione di strutture in legno

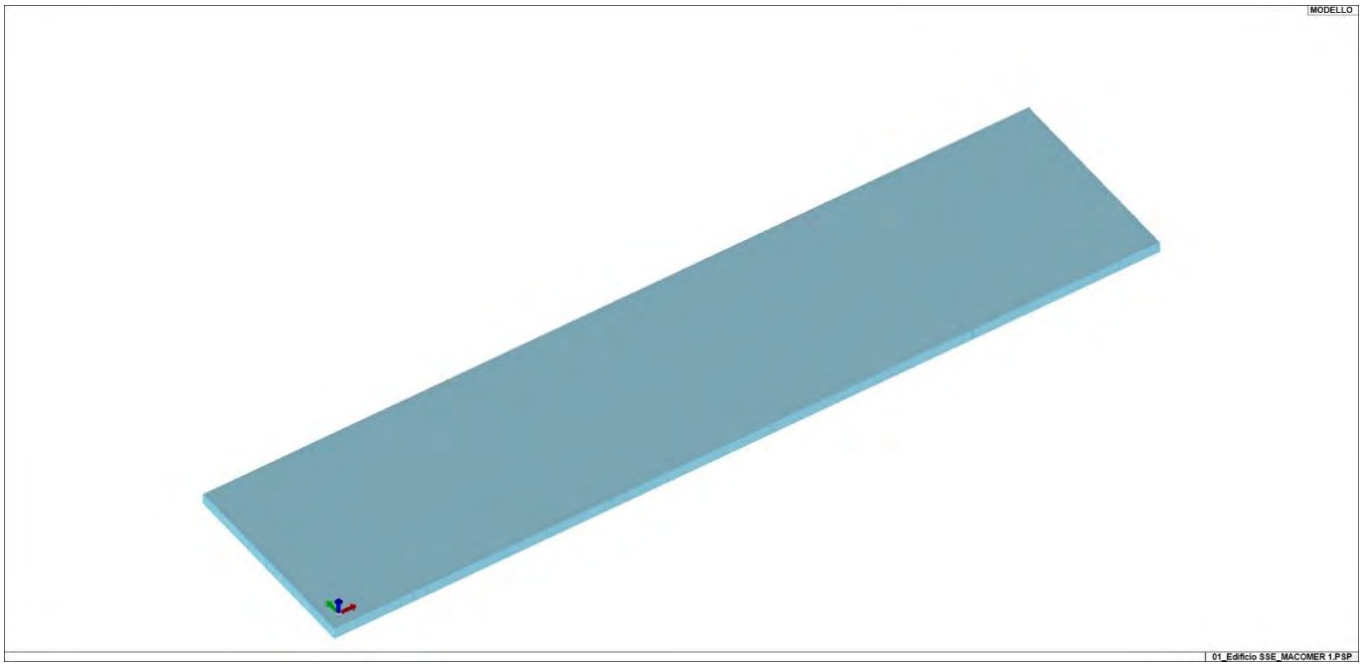
Test N°	Titolo
17	SOLAIO: MISTO LEGNO-CALCESTRUZZO
89	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
90	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
91	FATTORE DI STRUTTURA
92	VERIFICHE EC5

93	SNELLEZZE EC5
94	VERIFICA AL FUOCO DI STRUTTURE IN LEGNO SECONDO EC5
117	PROGETTO E VERIFICA DI GUSCI IN MATERIALE XLAM
118	PROGETTO E VERIFICA DI PARETI IN MATERIALE XLAM E RELATIVI COLLEGAMENTI
119	PROGETTO E VERIFICA DI SOLAI IN MATERIALE XLAM

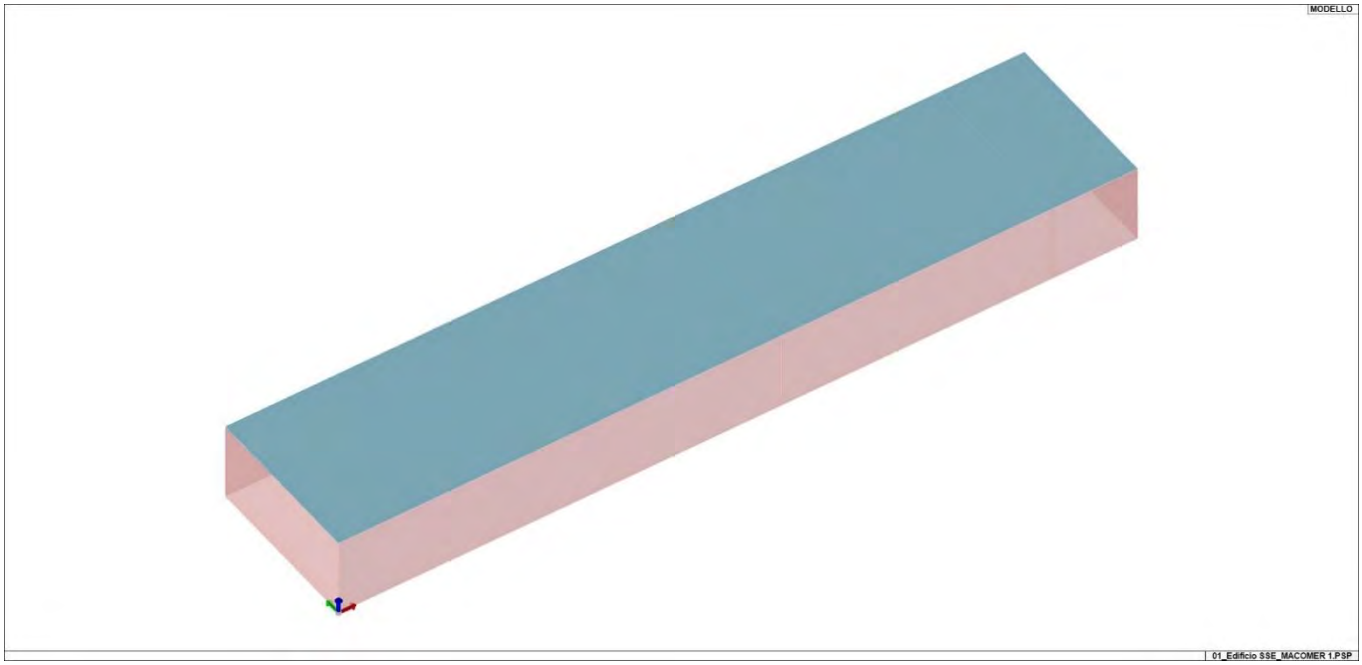
Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
5	Calcestruzzo Classe C32/40			3.360e+05	0.20	1.400e+05	2.50e-03	1.00e-05	
	Resistenza Rc	400.0							
	Resistenza fctm		31.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
25	Danesi - Isomuro 30.19.25 (25.19.20) e malta di classe M10-muratura E = 6.530e+04			6.530e+04	0.0	1.612e+04	9.00e-04	1.00e-05	
	Resistenza f	65.3							
	Resistenza fh	32.6							
	Resistenza fv0	3.0							
	Resistenza fv0h	3.0							
	Resistenza tau0	1.5							
	Resistenza fvlim	9.4							
	Resistenza fb	144.0							
	Resistenza fbh	32.0							
	Resistenza fbt	10.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05



11_MOD_MATERIALI_D2



11_MOD_MATERIALI_D3



11_MOD_MATERIALI_SOLAI

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Armatura						
Inclinazione Ax [gradi]	0.0					
Angolo Ax-Ay [gradi]	90.00					
Minima tesa	0.31					
Massima tesa	0.78					
Maglia unica centrale	No					
Copriferro [cm]	2.00					
Maglia x						
diametro	10					
passo	20					
diametro aggiuntivi	12					
Maglia y						
diametro	10					
passo	20					
diametro aggiuntivi	12					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00					
Tipo acciaio	tipo C					
Coefficiente gamma s	1.15					
Coefficiente gamma c	1.50					
Verifiche con N costante	Si					
Applica SLU da DIN	No					
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50					
Tensione amm. acciaio [daN/cm2]	2600.00					
Rapporto omogeneizzazione N	15.00					
Massimo rapporto area compressa/tesa	1.00					
Resistenza al fuoco						
3- intradosso	No					
3+ estradosso	No					
Tempo di esposizione R	15					

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetta a filo	No					
Af inf: da q*L*L /	0.0					
Armatura						
Minima tesa	0.31					
Minima compressa	0.31					

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Massima tesa	0.78					
Da sezione	Si					
Usa armatura teorica	No					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00					
Tensione fy staffe [daN/cm2]	4500.00					
Tipo acciaio	tipo C					
Coefficiente gamma s	1.15					
Coefficiente gamma c	1.50					
Verifiche con N costante	Si					
Fattore di ridistribuzione	0.0					
Modello per il confinamento						
Relazione tensio-deformativa	Mander					
Incrudimento acciaio	5.000e-03					
Fattore lambda	1.00					
epsilon max,s	4.000e-02					
epsilon cu2	4.500e-03					
epsilon c2	0.0					
epsilon cy	0.0					
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50					
Tensione amm. acciaio [daN/cm2]	2600.00					
Rapporto omogeneizzazione N	15.00					
Massimo rapporto area compressa/tesa	1.00					
Staffe						
Diametro staffe	0.0					
Passo minimo [cm]	4.00					
Passo massimo [cm]	30.00					
Passo raffittito [cm]	15.00					
Lunghezza zona raffittita [cm]	50.00					
Ctg(Teta) Max	2.50					
Percentuale sagomati	0.0					
Luce di taglio per GR [cm]	1.00					
Adotta scorrimento medio	No					
Torsione non essenziale inclusa	Si					

Pilastri c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Privilegia lati					
Progetta a filo	No					
Effetti del 2 ordine	Si					
Beta per 2-2	1.00					
Beta per 3-3	1.00					
Armatura						
Massima tesa	4.00					
Minima tesa	1.00					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00					
Tensione fy staffe [daN/cm2]	4500.00					
Tipo acciaio	tipo C					
Coefficiente gamma s	1.15					
Coefficiente gamma c	1.50					
Verifiche con N costante	Si					
Modello per il confinamento						
Relazione tensio-deformativa	Mander					
Incrudimento acciaio	5.000e-03					
Fattore lambda	1.00					
epsilon max,s	4.000e-02					
epsilon cu2	4.500e-03					
epsilon c2	0.0					
epsilon cy	0.0					
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50					
Tensione amm. acciaio [daN/cm2]	2600.00					
Rapporto omogeneizzazione N	15.00					
Staffe						
Diametro staffe	0.0					
Passo minimo [cm]	5.00					
Passo massimo [cm]	25.00					
Passo raffittito [cm]	15.00					

Pilastri c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezza zona raffittita [cm]	45.00					
Ctg(Teta) Max	2.50					
Luce di taglio per GR [cm]	1.00					
Massimizza gerarchia	Si					

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	No					
Af inf: da traliccio	Si					
Consenti armatura a taglio	No					
Incrementa armatura longitudinale per taglio	Si					
Af inf: da q*L*L /	20.00					
Incremento fascia piena [cm]	5.00					
Armatura						
Minima tesa	0.15					
Massima tesa	3.00					
Minima compressa	0.0					
Af/h [cm]	7.000e-02					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00					
Tipo acciaio	tipo C					
Coefficiente gamma s	1.15					
Coefficiente gamma c	1.50					
Fattore di ridistribuzione	0.0					
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	85.00					
Tensione amm. acciaio [daN/cm2]	2600.00					
Rapporto omogeneizzazione N	15.00					
Massimo rapporto area compressa/tesa	1.00					
Verifica freccia						
Infinita	250.00					
Istantanea	500.00					
Fattore viscosità	3.00					
Usa J non fessurato	No					
Elementi non strutturali						
Tamponatura antiespulsione	No					
Tamponatura con armatura	No					
Fattore di struttura/comportamento	2.00					
Coefficiente gamma m	0.0					
Periodo Ta	0.0					
Altezza pannello	0.0					

6. MODELLAZIONE DELLE SEZIONI

6.1. LEGENDA TABELLA DATI SEZIONI

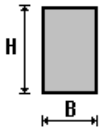
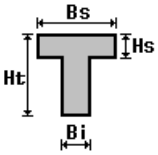
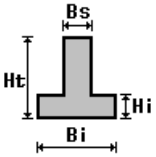
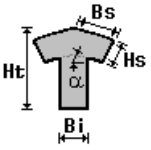
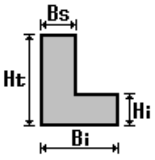
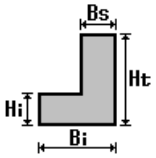
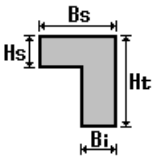
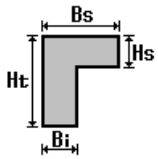
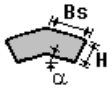
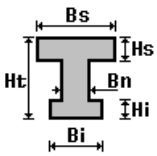
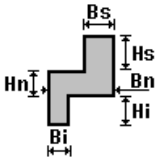
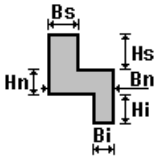
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

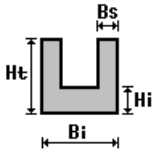
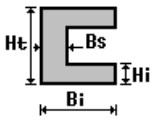
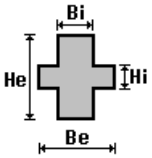
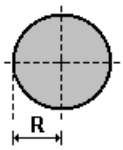
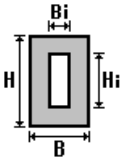
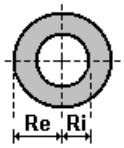
1. sezione di tipo generico
2. profilati semplici
3. profilati accoppiati e speciali

Le sezioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni sezione vengono riportati in tabella i seguenti dati:

Area	area della sezione
A V2	area della sezione/fattore di taglio (per il taglio in direzione 2)
A V3	area della sezione/fattore di taglio (per il taglio in direzione 3)
Jt	fattore torsionale di rigidezza
J2-2	momento d'inerzia della sezione riferito all'asse 2
J3-3	momento d'inerzia della sezione riferito all'asse 3
W2-2	modulo di resistenza della sezione riferito all'asse 2
W3-3	modulo di resistenza della sezione riferito all'asse 3
Wp2-2	modulo di resistenza plastico della sezione riferito all'asse 2
Wp3-3	modulo di resistenza plastico della sezione riferito all'asse 3

I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali delle sezioni è condotta nel riferimento 2-3 dell'elemento.

					
rettangolare	a T	a T rovescia	a T di colmo	a L	a L specchiata
					

a L specchiata rovescia	a L rovescia	a L di colmo	a doppio T	a quattro specchiata	a quattro
					
a U	a C	a croce	circolare	rettangolare cava	circolare cava

Per quanto concerne i profilati semplici ed accoppiati l'asse 2 del riferimento coincide con l'asse x riportato nei più diffusi profilatari.

Per quanto concerne le sezioni di tipo generico (tipo 1.):

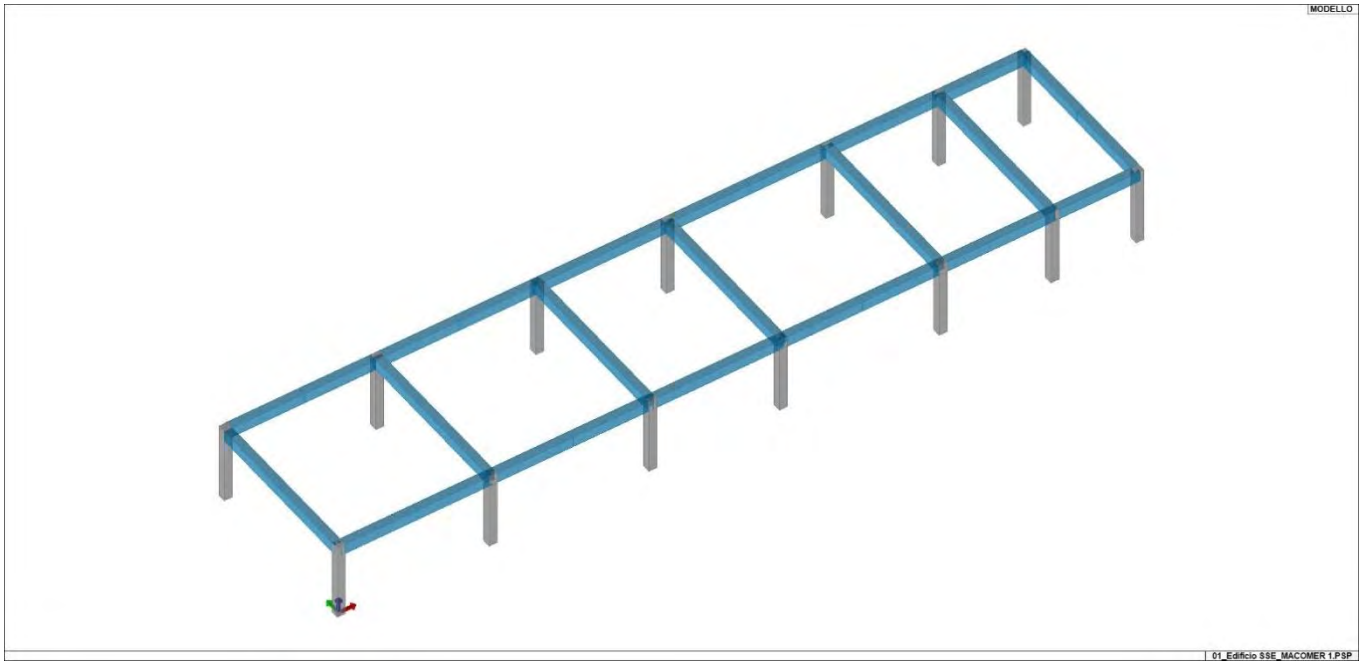
i valori dimensionali con prefisso B sono riferiti all'asse 2

i valori dimensionali con prefisso H sono riferiti all'asse 3

Con riferimento al Documento di Affidabilità "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Settembre 2014, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
1	CARATTERISTICHE GEOMETRICHE E INERZIALI
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
104	ANALISI DI RESISTENZA AL FUOCO

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
1	Rettangolare: b=30.00 h =30.00	900.00	750.00	750.00	1.139e+05	6.750e+04	6.750e+04	4500.00	4500.00	6750.00	6750.00
2	Rettangolare: b=30 h=40	1200.00	1000.00	1000.00	1.946e+05	9.000e+04	1.600e+05	6000.00	8000.00	9000.00	1.200e+04



13_MOD_SEZIONI

7. MODELLAZIONE STRUTTURA: NODI

7.1. LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).

Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di molle viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
Note	(FS = 1, 2,…) eventuale codice del tipo di fondazione speciale (1, 2,… fanno riferimento alle tipologie: plinto, palo, plinto su pali,…) che è collegato al nodo. (ISO = “id SIGLA”) indice e sigla identificativa dell’ eventuale isolatore sismico assegnato al nodo
Rig. TX	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

7.1.1. TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	0.0	0.0	0.0	2	0.0	0.0	300.0	3	0.0	630.0	0.0

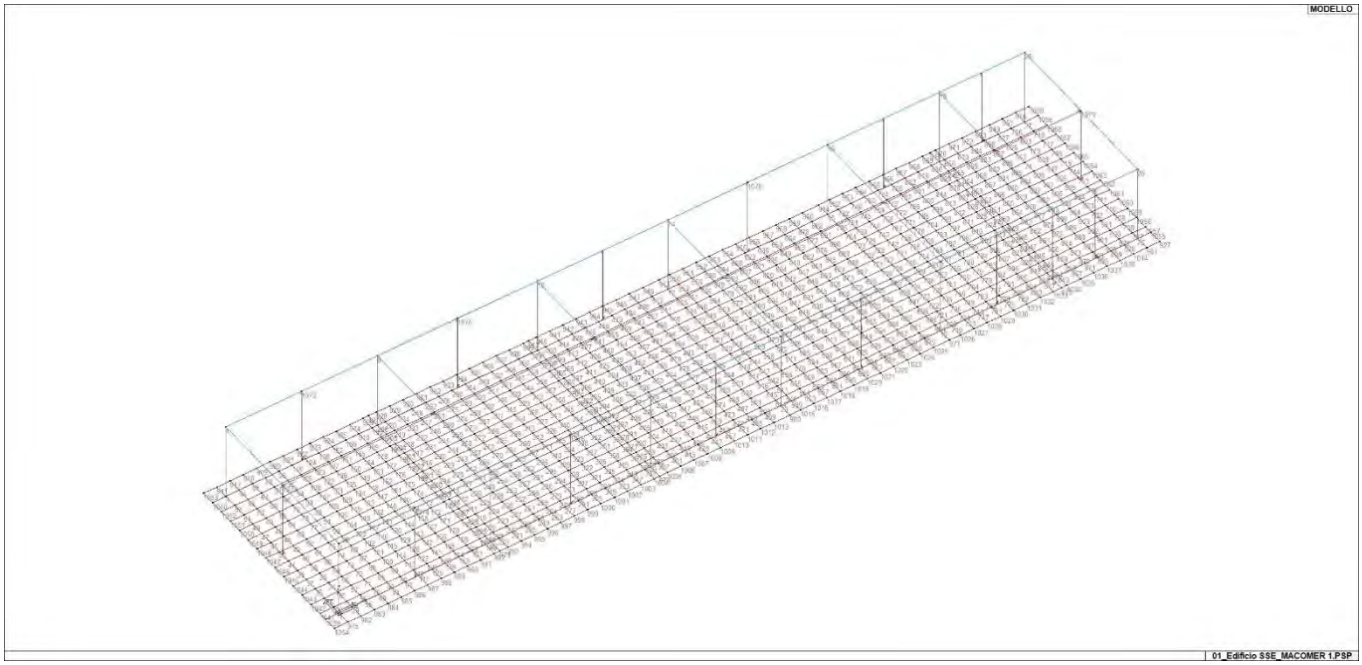
4	0.0	630.0	300.0	5	1170.0	0.0	300.0	6	570.0	630.0	300.0
7	2260.0	0.0	300.0	8	1660.0	0.0	300.0	9	2680.0	0.0	0.0
10	1170.0	630.0	300.0	11	1170.0	630.0	0.0	12	2260.0	0.0	0.0
13	1660.0	630.0	0.0	14	1660.0	630.0	300.0	15	2260.0	630.0	0.0
16	2260.0	630.0	300.0	17	2680.0	630.0	0.0	18	2680.0	630.0	300.0
19	2680.0	0.0	300.0	20	570.0	0.0	300.0	21	1170.0	0.0	0.0
22	570.0	0.0	0.0	23	1660.0	0.0	0.0	24	2900.0	480.0	0.0
25	3000.0	0.0	0.0	26	3000.0	0.0	300.0	27	3000.0	630.0	0.0
28	3000.0	630.0	300.0	29	50.0	0.0	0.0	30	50.0	30.0	0.0
31	0.0	30.0	0.0	32	50.0	80.0	0.0	33	0.0	80.0	0.0
34	50.0	130.0	0.0	35	0.0	130.0	0.0	36	50.0	180.0	0.0
37	0.0	180.0	0.0	38	50.0	230.0	0.0	39	0.0	230.0	0.0
40	50.0	280.0	0.0	41	0.0	280.0	0.0	42	50.0	330.0	0.0
43	0.0	330.0	0.0	44	50.0	380.0	0.0	45	0.0	380.0	0.0
46	50.0	430.0	0.0	47	0.0	430.0	0.0	48	50.0	480.0	0.0
49	0.0	480.0	0.0	50	50.0	530.0	0.0	51	0.0	530.0	0.0
52	50.0	580.0	0.0	53	0.0	580.0	0.0	54	50.0	630.0	0.0
55	100.0	0.0	0.0	56	100.0	30.0	0.0	57	100.0	80.0	0.0
58	100.0	130.0	0.0	59	100.0	180.0	0.0	60	100.0	230.0	0.0
61	100.0	280.0	0.0	62	100.0	330.0	0.0	63	100.0	380.0	0.0
64	100.0	430.0	0.0	65	100.0	480.0	0.0	66	100.0	530.0	0.0
67	100.0	580.0	0.0	68	100.0	630.0	0.0	69	150.0	0.0	0.0
70	150.0	30.0	0.0	71	150.0	80.0	0.0	72	150.0	130.0	0.0
73	150.0	180.0	0.0	74	150.0	230.0	0.0	75	150.0	280.0	0.0
76	150.0	330.0	0.0	77	150.0	380.0	0.0	78	150.0	430.0	0.0
79	150.0	480.0	0.0	80	150.0	530.0	0.0	81	150.0	580.0	0.0
82	150.0	630.0	0.0	83	200.0	0.0	0.0	84	200.0	30.0	0.0
85	200.0	80.0	0.0	86	200.0	130.0	0.0	87	200.0	180.0	0.0
88	200.0	230.0	0.0	89	200.0	280.0	0.0	90	200.0	330.0	0.0
91	200.0	380.0	0.0	92	200.0	430.0	0.0	93	200.0	480.0	0.0
94	200.0	530.0	0.0	95	200.0	580.0	0.0	96	200.0	630.0	0.0
97	250.0	0.0	0.0	98	250.0	30.0	0.0	99	250.0	80.0	0.0
100	250.0	130.0	0.0	101	250.0	180.0	0.0	102	250.0	230.0	0.0
103	250.0	280.0	0.0	104	250.0	330.0	0.0	105	250.0	380.0	0.0
106	250.0	430.0	0.0	107	250.0	480.0	0.0	108	250.0	530.0	0.0
109	250.0	580.0	0.0	110	250.0	630.0	0.0	111	300.0	0.0	0.0
112	300.0	30.0	0.0	113	300.0	80.0	0.0	114	300.0	130.0	0.0
115	300.0	180.0	0.0	116	300.0	230.0	0.0	117	300.0	280.0	0.0
118	300.0	330.0	0.0	119	300.0	380.0	0.0	120	300.0	430.0	0.0
121	300.0	480.0	0.0	122	300.0	530.0	0.0	123	300.0	580.0	0.0
124	300.0	630.0	0.0	125	350.0	0.0	0.0	126	350.0	30.0	0.0
127	350.0	80.0	0.0	128	350.0	130.0	0.0	129	350.0	180.0	0.0
130	350.0	230.0	0.0	131	350.0	280.0	0.0	132	350.0	330.0	0.0
133	350.0	380.0	0.0	134	350.0	430.0	0.0	135	350.0	480.0	0.0
136	350.0	530.0	0.0	137	350.0	580.0	0.0	138	350.0	630.0	0.0
139	400.0	0.0	0.0	140	400.0	30.0	0.0	141	400.0	80.0	0.0
142	400.0	130.0	0.0	143	400.0	180.0	0.0	144	400.0	230.0	0.0
145	400.0	280.0	0.0	146	400.0	330.0	0.0	147	400.0	380.0	0.0
148	400.0	430.0	0.0	149	400.0	480.0	0.0	150	400.0	530.0	0.0
151	400.0	580.0	0.0	152	400.0	630.0	0.0	153	450.0	0.0	0.0
154	450.0	30.0	0.0	155	450.0	80.0	0.0	156	450.0	130.0	0.0
157	450.0	180.0	0.0	158	450.0	230.0	0.0	159	450.0	280.0	0.0
160	450.0	330.0	0.0	161	450.0	380.0	0.0	162	450.0	430.0	0.0
163	450.0	480.0	0.0	164	450.0	530.0	0.0	165	450.0	580.0	0.0
166	450.0	630.0	0.0	167	500.0	0.0	0.0	168	500.0	30.0	0.0
169	500.0	80.0	0.0	170	500.0	130.0	0.0	171	500.0	180.0	0.0
172	500.0	230.0	0.0	173	500.0	280.0	0.0	174	500.0	330.0	0.0
175	500.0	380.0	0.0	176	500.0	430.0	0.0	177	500.0	480.0	0.0
178	500.0	530.0	0.0	179	2950.0	530.0	0.0	180	550.0	0.0	0.0
181	550.0	30.0	0.0	182	550.0	80.0	0.0	183	550.0	130.0	0.0
184	550.0	180.0	0.0	185	550.0	230.0	0.0	186	550.0	280.0	0.0
187	550.0	330.0	0.0	188	550.0	380.0	0.0	189	550.0	430.0	0.0
190	550.0	480.0	0.0	191	550.0	530.0	0.0	192	550.0	580.0	0.0
193	550.0	630.0	0.0	194	570.0	30.0	0.0	195	570.0	80.0	0.0
196	570.0	130.0	0.0	197	570.0	180.0	0.0	198	570.0	230.0	0.0
199	570.0	280.0	0.0	200	570.0	330.0	0.0	201	570.0	380.0	0.0
202	570.0	430.0	0.0	203	570.0	480.0	0.0	204	570.0	530.0	0.0
205	570.0	580.0	0.0	206	570.0	630.0	0.0	207	600.0	0.0	0.0
208	600.0	30.0	0.0	209	600.0	80.0	0.0	210	600.0	130.0	0.0
211	600.0	180.0	0.0	212	600.0	230.0	0.0	213	600.0	280.0	0.0
214	600.0	330.0	0.0	215	600.0	380.0	0.0	216	600.0	430.0	0.0
217	600.0	480.0	0.0	218	600.0	530.0	0.0	219	600.0	580.0	0.0
220	600.0	630.0	0.0	221	650.0	0.0	0.0	222	650.0	30.0	0.0
223	650.0	80.0	0.0	224	650.0	130.0	0.0	225	650.0	180.0	0.0
226	650.0	230.0	0.0	227	650.0	280.0	0.0	228	650.0	330.0	0.0
229	650.0	380.0	0.0	230	650.0	430.0	0.0	231	650.0	480.0	0.0

232	650.0	530.0	0.0	233	650.0	580.0	0.0	234	650.0	630.0	0.0
235	700.0	0.0	0.0	236	700.0	30.0	0.0	237	700.0	80.0	0.0
238	700.0	130.0	0.0	239	700.0	180.0	0.0	240	700.0	230.0	0.0
241	700.0	280.0	0.0	242	700.0	330.0	0.0	243	700.0	380.0	0.0
244	700.0	430.0	0.0	245	700.0	480.0	0.0	246	700.0	530.0	0.0
247	700.0	580.0	0.0	248	700.0	630.0	0.0	249	750.0	0.0	0.0
250	750.0	30.0	0.0	251	750.0	80.0	0.0	252	750.0	130.0	0.0
253	750.0	180.0	0.0	254	750.0	230.0	0.0	255	750.0	280.0	0.0
256	750.0	330.0	0.0	257	750.0	380.0	0.0	258	750.0	430.0	0.0
259	750.0	480.0	0.0	260	750.0	530.0	0.0	261	750.0	580.0	0.0
262	750.0	630.0	0.0	263	800.0	0.0	0.0	264	800.0	30.0	0.0
265	800.0	80.0	0.0	266	800.0	130.0	0.0	267	800.0	180.0	0.0
268	800.0	230.0	0.0	269	800.0	280.0	0.0	270	800.0	330.0	0.0
271	800.0	380.0	0.0	272	800.0	430.0	0.0	273	800.0	480.0	0.0
274	800.0	530.0	0.0	275	800.0	580.0	0.0	276	800.0	630.0	0.0
277	850.0	0.0	0.0	278	850.0	30.0	0.0	279	850.0	80.0	0.0
280	850.0	130.0	0.0	281	850.0	180.0	0.0	282	850.0	230.0	0.0
283	850.0	280.0	0.0	284	850.0	330.0	0.0	285	850.0	380.0	0.0
286	850.0	430.0	0.0	287	850.0	480.0	0.0	288	850.0	530.0	0.0
289	850.0	580.0	0.0	290	850.0	630.0	0.0	291	900.0	0.0	0.0
292	900.0	30.0	0.0	293	900.0	80.0	0.0	294	900.0	130.0	0.0
295	900.0	180.0	0.0	296	900.0	230.0	0.0	297	900.0	280.0	0.0
298	900.0	330.0	0.0	299	900.0	380.0	0.0	300	900.0	430.0	0.0
301	900.0	480.0	0.0	302	900.0	530.0	0.0	303	900.0	580.0	0.0
304	900.0	630.0	0.0	305	950.0	0.0	0.0	306	950.0	30.0	0.0
307	950.0	80.0	0.0	308	950.0	130.0	0.0	309	950.0	180.0	0.0
310	950.0	230.0	0.0	311	950.0	280.0	0.0	312	950.0	330.0	0.0
313	950.0	380.0	0.0	314	950.0	430.0	0.0	315	950.0	480.0	0.0
316	950.0	530.0	0.0	317	950.0	580.0	0.0	318	950.0	630.0	0.0
319	1000.0	0.0	0.0	320	1000.0	30.0	0.0	321	1000.0	80.0	0.0
322	1000.0	130.0	0.0	323	1000.0	180.0	0.0	324	1000.0	230.0	0.0
325	1000.0	280.0	0.0	326	1000.0	330.0	0.0	327	1000.0	380.0	0.0
328	1000.0	430.0	0.0	329	1000.0	480.0	0.0	330	1000.0	530.0	0.0
331	1000.0	580.0	0.0	332	1000.0	630.0	0.0	333	1050.0	0.0	0.0
334	1050.0	30.0	0.0	335	1050.0	80.0	0.0	336	1050.0	130.0	0.0
337	1050.0	180.0	0.0	338	1050.0	230.0	0.0	339	1050.0	280.0	0.0
340	1050.0	330.0	0.0	341	1050.0	380.0	0.0	342	1050.0	430.0	0.0
343	1050.0	480.0	0.0	344	1050.0	530.0	0.0	345	1050.0	580.0	0.0
346	1050.0	630.0	0.0	347	1100.0	0.0	0.0	348	1100.0	30.0	0.0
349	1100.0	80.0	0.0	350	1100.0	130.0	0.0	351	1100.0	180.0	0.0
352	1100.0	230.0	0.0	353	1100.0	280.0	0.0	354	1100.0	330.0	0.0
355	1100.0	380.0	0.0	356	1100.0	430.0	0.0	357	1100.0	480.0	0.0
358	1100.0	530.0	0.0	359	1100.0	580.0	0.0	360	1100.0	630.0	0.0
361	1150.0	0.0	0.0	362	1150.0	30.0	0.0	363	1150.0	80.0	0.0
364	1150.0	130.0	0.0	365	1150.0	180.0	0.0	366	1150.0	230.0	0.0
367	1150.0	280.0	0.0	368	1150.0	330.0	0.0	369	1150.0	380.0	0.0
370	1150.0	430.0	0.0	371	1150.0	480.0	0.0	372	1150.0	530.0	0.0
373	1150.0	580.0	0.0	374	1150.0	630.0	0.0	375	1170.0	30.0	0.0
376	1170.0	80.0	0.0	377	1170.0	130.0	0.0	378	1170.0	180.0	0.0
379	1170.0	230.0	0.0	380	1170.0	280.0	0.0	381	1170.0	330.0	0.0
382	1170.0	380.0	0.0	383	1170.0	430.0	0.0	384	1170.0	480.0	0.0
385	1170.0	530.0	0.0	386	1170.0	580.0	0.0	387	1200.0	0.0	0.0
388	1200.0	30.0	0.0	389	1200.0	80.0	0.0	390	1200.0	130.0	0.0
391	1200.0	180.0	0.0	392	1200.0	230.0	0.0	393	1200.0	280.0	0.0
394	1200.0	330.0	0.0	395	1200.0	380.0	0.0	396	1200.0	430.0	0.0
397	1200.0	480.0	0.0	398	1200.0	530.0	0.0	399	1200.0	580.0	0.0
400	1200.0	630.0	0.0	401	1250.0	0.0	0.0	402	1250.0	30.0	0.0
403	1250.0	80.0	0.0	404	1250.0	130.0	0.0	405	1250.0	180.0	0.0
406	1250.0	230.0	0.0	407	1250.0	280.0	0.0	408	1250.0	330.0	0.0
409	1250.0	380.0	0.0	410	1250.0	430.0	0.0	411	1250.0	480.0	0.0
412	1250.0	530.0	0.0	413	1250.0	580.0	0.0	414	1250.0	630.0	0.0
415	1300.0	0.0	0.0	416	1300.0	30.0	0.0	417	1300.0	80.0	0.0
418	1300.0	130.0	0.0	419	1300.0	180.0	0.0	420	1300.0	230.0	0.0
421	1300.0	280.0	0.0	422	1300.0	330.0	0.0	423	1300.0	380.0	0.0
424	1300.0	430.0	0.0	425	1300.0	480.0	0.0	426	1300.0	530.0	0.0
427	1300.0	580.0	0.0	428	1300.0	630.0	0.0	429	1350.0	0.0	0.0
430	1350.0	30.0	0.0	431	1350.0	80.0	0.0	432	1350.0	130.0	0.0
433	1350.0	180.0	0.0	434	1350.0	230.0	0.0	435	1350.0	280.0	0.0
436	1350.0	330.0	0.0	437	1350.0	380.0	0.0	438	1350.0	430.0	0.0
439	1350.0	480.0	0.0	440	1350.0	530.0	0.0	441	1350.0	580.0	0.0
442	1350.0	630.0	0.0	443	1400.0	0.0	0.0	444	1400.0	30.0	0.0
445	1400.0	80.0	0.0	446	1400.0	130.0	0.0	447	1400.0	180.0	0.0
448	1400.0	230.0	0.0	449	1400.0	280.0	0.0	450	1400.0	330.0	0.0
451	1400.0	380.0	0.0	452	1400.0	430.0	0.0	453	1400.0	480.0	0.0
454	1400.0	530.0	0.0	455	1400.0	580.0	0.0	456	1400.0	630.0	0.0
457	1450.0	0.0	0.0	458	1450.0	30.0	0.0	459	1450.0	80.0	0.0

460	1450.0	130.0	0.0	461	1450.0	180.0	0.0	462	1450.0	230.0	0.0
463	1450.0	280.0	0.0	464	1450.0	330.0	0.0	465	1450.0	380.0	0.0
466	1450.0	430.0	0.0	467	1450.0	480.0	0.0	468	1450.0	530.0	0.0
469	1450.0	580.0	0.0	470	1450.0	630.0	0.0	471	1500.0	0.0	0.0
472	1500.0	30.0	0.0	473	1500.0	80.0	0.0	474	1500.0	130.0	0.0
475	1500.0	180.0	0.0	476	1500.0	230.0	0.0	477	1500.0	280.0	0.0
478	1500.0	330.0	0.0	479	1500.0	380.0	0.0	480	1500.0	430.0	0.0
481	1500.0	480.0	0.0	482	1500.0	530.0	0.0	483	1500.0	580.0	0.0
484	1500.0	630.0	0.0	485	1550.0	0.0	0.0	486	1550.0	30.0	0.0
487	1550.0	80.0	0.0	488	1550.0	130.0	0.0	489	1550.0	180.0	0.0
490	1550.0	230.0	0.0	491	1550.0	280.0	0.0	492	1550.0	330.0	0.0
493	1550.0	380.0	0.0	494	1550.0	430.0	0.0	495	1550.0	480.0	0.0
496	1550.0	530.0	0.0	497	1550.0	580.0	0.0	498	1550.0	630.0	0.0
499	1600.0	0.0	0.0	500	1600.0	30.0	0.0	501	1600.0	80.0	0.0
502	1600.0	130.0	0.0	503	1600.0	180.0	0.0	504	1600.0	230.0	0.0
505	1600.0	280.0	0.0	506	1600.0	330.0	0.0	507	1600.0	380.0	0.0
508	1600.0	430.0	0.0	509	1600.0	480.0	0.0	510	1600.0	530.0	0.0
511	1600.0	580.0	0.0	512	1600.0	630.0	0.0	513	2900.0	530.0	0.0
514	1660.0	30.0	0.0	515	1660.0	80.0	0.0	516	1660.0	130.0	0.0
517	1660.0	180.0	0.0	518	1660.0	230.0	0.0	519	1660.0	280.0	0.0
520	1660.0	330.0	0.0	521	1660.0	380.0	0.0	522	1660.0	430.0	0.0
523	1660.0	480.0	0.0	524	1660.0	530.0	0.0	525	1660.0	580.0	0.0
526	2900.0	580.0	0.0	527	2900.0	630.0	0.0	528	2950.0	0.0	0.0
529	2950.0	30.0	0.0	530	2950.0	80.0	0.0	531	2950.0	130.0	0.0
532	2950.0	180.0	0.0	533	2950.0	230.0	0.0	534	2950.0	280.0	0.0
535	2950.0	330.0	0.0	536	2950.0	380.0	0.0	537	2950.0	430.0	0.0
538	2950.0	480.0	0.0	539	1700.0	0.0	0.0	540	1700.0	30.0	0.0
541	1700.0	80.0	0.0	542	1700.0	130.0	0.0	543	1700.0	180.0	0.0
544	1700.0	230.0	0.0	545	1700.0	280.0	0.0	546	1700.0	330.0	0.0
547	1700.0	380.0	0.0	548	1700.0	430.0	0.0	549	1700.0	480.0	0.0
550	1700.0	530.0	0.0	551	1700.0	580.0	0.0	552	1700.0	630.0	0.0
553	1750.0	0.0	0.0	554	1750.0	30.0	0.0	555	1750.0	80.0	0.0
556	1750.0	130.0	0.0	557	1750.0	180.0	0.0	558	1750.0	230.0	0.0
559	1750.0	280.0	0.0	560	1750.0	330.0	0.0	561	1750.0	380.0	0.0
562	1750.0	430.0	0.0	563	1750.0	480.0	0.0	564	1750.0	530.0	0.0
565	1750.0	580.0	0.0	566	1750.0	630.0	0.0	567	1800.0	0.0	0.0
568	1800.0	30.0	0.0	569	1800.0	80.0	0.0	570	1800.0	130.0	0.0
571	1800.0	180.0	0.0	572	1800.0	230.0	0.0	573	1800.0	280.0	0.0
574	1800.0	330.0	0.0	575	1800.0	380.0	0.0	576	1800.0	430.0	0.0
577	1800.0	480.0	0.0	578	1800.0	530.0	0.0	579	1800.0	580.0	0.0
580	1800.0	630.0	0.0	581	1850.0	0.0	0.0	582	1850.0	30.0	0.0
583	1850.0	80.0	0.0	584	1850.0	130.0	0.0	585	1850.0	180.0	0.0
586	1850.0	230.0	0.0	587	1850.0	280.0	0.0	588	1850.0	330.0	0.0
589	1850.0	380.0	0.0	590	1850.0	430.0	0.0	591	1850.0	480.0	0.0
592	1850.0	530.0	0.0	593	1850.0	580.0	0.0	594	1850.0	630.0	0.0
595	1900.0	0.0	0.0	596	1900.0	30.0	0.0	597	1900.0	80.0	0.0
598	1900.0	130.0	0.0	599	1900.0	180.0	0.0	600	1900.0	230.0	0.0
601	1900.0	280.0	0.0	602	1900.0	330.0	0.0	603	1900.0	380.0	0.0
604	1900.0	430.0	0.0	605	1900.0	480.0	0.0	606	1900.0	530.0	0.0
607	1900.0	580.0	0.0	608	1900.0	630.0	0.0	609	1950.0	0.0	0.0
610	1950.0	30.0	0.0	611	1950.0	80.0	0.0	612	1950.0	130.0	0.0
613	1950.0	180.0	0.0	614	1950.0	230.0	0.0	615	1950.0	280.0	0.0
616	1950.0	330.0	0.0	617	1950.0	380.0	0.0	618	1950.0	430.0	0.0
619	1950.0	480.0	0.0	620	1950.0	530.0	0.0	621	1950.0	580.0	0.0
622	1950.0	630.0	0.0	623	2000.0	0.0	0.0	624	2000.0	30.0	0.0
625	2000.0	80.0	0.0	626	2000.0	130.0	0.0	627	2000.0	180.0	0.0
628	2000.0	230.0	0.0	629	2000.0	280.0	0.0	630	2000.0	330.0	0.0
631	2000.0	380.0	0.0	632	2000.0	430.0	0.0	633	2000.0	480.0	0.0
634	2000.0	530.0	0.0	635	2000.0	580.0	0.0	636	2000.0	630.0	0.0
637	2050.0	0.0	0.0	638	2050.0	30.0	0.0	639	2050.0	80.0	0.0
640	2050.0	130.0	0.0	641	2050.0	180.0	0.0	642	2050.0	230.0	0.0
643	2050.0	280.0	0.0	644	2050.0	330.0	0.0	645	2050.0	380.0	0.0
646	2050.0	430.0	0.0	647	2050.0	480.0	0.0	648	2050.0	530.0	0.0
649	2050.0	580.0	0.0	650	2050.0	630.0	0.0	651	2100.0	0.0	0.0
652	2100.0	30.0	0.0	653	2100.0	80.0	0.0	654	2100.0	130.0	0.0
655	2100.0	180.0	0.0	656	2100.0	230.0	0.0	657	2100.0	280.0	0.0
658	2100.0	330.0	0.0	659	2100.0	380.0	0.0	660	2100.0	430.0	0.0
661	2100.0	480.0	0.0	662	2100.0	530.0	0.0	663	2100.0	580.0	0.0
664	2100.0	630.0	0.0	665	2150.0	0.0	0.0	666	2150.0	30.0	0.0
667	2150.0	80.0	0.0	668	2150.0	130.0	0.0	669	2150.0	180.0	0.0
670	2150.0	230.0	0.0	671	2150.0	280.0	0.0	672	2150.0	330.0	0.0
673	2150.0	380.0	0.0	674	2150.0	430.0	0.0	675	2150.0	480.0	0.0
676	2150.0	530.0	0.0	677	2150.0	580.0	0.0	678	2150.0	630.0	0.0
679	2200.0	0.0	0.0	680	2200.0	30.0	0.0	681	2200.0	80.0	0.0
682	2200.0	130.0	0.0	683	2200.0	180.0	0.0	684	2200.0	230.0	0.0
685	2200.0	280.0	0.0	686	2200.0	330.0	0.0	687	2200.0	380.0	0.0

688	2200.0	430.0	0.0	689	2200.0	480.0	0.0	690	2200.0	530.0	0.0
691	2200.0	580.0	0.0	692	2200.0	630.0	0.0	693	2950.0	580.0	0.0
694	2260.0	30.0	0.0	695	2260.0	80.0	0.0	696	2260.0	130.0	0.0
697	2260.0	180.0	0.0	698	2260.0	230.0	0.0	699	2260.0	280.0	0.0
700	2260.0	330.0	0.0	701	2260.0	380.0	0.0	702	2260.0	430.0	0.0
703	2260.0	480.0	0.0	704	2260.0	530.0	0.0	705	2260.0	580.0	0.0
706	2950.0	630.0	0.0	707	3000.0	30.0	0.0	708	3000.0	80.0	0.0
709	3000.0	130.0	0.0	710	3000.0	180.0	0.0	711	3000.0	230.0	0.0
712	3000.0	280.0	0.0	713	3000.0	330.0	0.0	714	3000.0	380.0	0.0
715	3000.0	430.0	0.0	716	3000.0	480.0	0.0	717	3000.0	530.0	0.0
718	3000.0	580.0	0.0	719	2300.0	0.0	0.0	720	2300.0	30.0	0.0
721	2300.0	80.0	0.0	722	2300.0	130.0	0.0	723	2300.0	180.0	0.0
724	2300.0	230.0	0.0	725	2300.0	280.0	0.0	726	2300.0	330.0	0.0
727	2300.0	380.0	0.0	728	2300.0	430.0	0.0	729	2300.0	480.0	0.0
730	2300.0	530.0	0.0	731	2300.0	580.0	0.0	732	2300.0	630.0	0.0
733	2350.0	0.0	0.0	734	2350.0	30.0	0.0	735	2350.0	80.0	0.0
736	2350.0	130.0	0.0	737	2350.0	180.0	0.0	738	2350.0	230.0	0.0
739	2350.0	280.0	0.0	740	2350.0	330.0	0.0	741	2350.0	380.0	0.0
742	2350.0	430.0	0.0	743	2350.0	480.0	0.0	744	2350.0	530.0	0.0
745	2350.0	580.0	0.0	746	2350.0	630.0	0.0	747	2400.0	0.0	0.0
748	2400.0	30.0	0.0	749	2400.0	80.0	0.0	750	2400.0	130.0	0.0
751	2400.0	180.0	0.0	752	2400.0	230.0	0.0	753	2400.0	280.0	0.0
754	2400.0	330.0	0.0	755	2400.0	380.0	0.0	756	2400.0	430.0	0.0
757	2400.0	480.0	0.0	758	2400.0	530.0	0.0	759	2400.0	580.0	0.0
760	2400.0	630.0	0.0	761	2450.0	0.0	0.0	762	2450.0	30.0	0.0
763	2450.0	80.0	0.0	764	2450.0	130.0	0.0	765	2450.0	180.0	0.0
766	2450.0	230.0	0.0	767	2450.0	280.0	0.0	768	2450.0	330.0	0.0
769	2450.0	380.0	0.0	770	2450.0	430.0	0.0	771	2450.0	480.0	0.0
772	2450.0	530.0	0.0	773	2450.0	580.0	0.0	774	2450.0	630.0	0.0
775	2500.0	0.0	0.0	776	2500.0	30.0	0.0	777	2500.0	80.0	0.0
778	2500.0	130.0	0.0	779	2500.0	180.0	0.0	780	2500.0	230.0	0.0
781	2500.0	280.0	0.0	782	2500.0	330.0	0.0	783	2500.0	380.0	0.0
784	2500.0	430.0	0.0	785	2500.0	480.0	0.0	786	2500.0	530.0	0.0
787	2500.0	580.0	0.0	788	2500.0	630.0	0.0	789	2550.0	0.0	0.0
790	2550.0	30.0	0.0	791	2550.0	80.0	0.0	792	2550.0	130.0	0.0
793	2550.0	180.0	0.0	794	2550.0	230.0	0.0	795	2550.0	280.0	0.0
796	2550.0	330.0	0.0	797	2550.0	380.0	0.0	798	2550.0	430.0	0.0
799	2550.0	480.0	0.0	800	2550.0	530.0	0.0	801	2550.0	580.0	0.0
802	2550.0	630.0	0.0	803	2600.0	0.0	0.0	804	2600.0	30.0	0.0
805	2600.0	80.0	0.0	806	2600.0	130.0	0.0	807	2600.0	180.0	0.0
808	2600.0	230.0	0.0	809	2600.0	280.0	0.0	810	2600.0	330.0	0.0
811	2600.0	380.0	0.0	812	2600.0	430.0	0.0	813	2600.0	480.0	0.0
814	2600.0	530.0	0.0	815	2600.0	580.0	0.0	816	2600.0	630.0	0.0
817	2650.0	0.0	0.0	818	2650.0	30.0	0.0	819	2650.0	80.0	0.0
820	2650.0	130.0	0.0	821	2650.0	180.0	0.0	822	2650.0	230.0	0.0
823	2650.0	280.0	0.0	824	2650.0	330.0	0.0	825	2650.0	380.0	0.0
826	2650.0	430.0	0.0	827	2650.0	480.0	0.0	828	2650.0	530.0	0.0
829	2650.0	580.0	0.0	830	2650.0	630.0	0.0	831	2680.0	30.0	0.0
832	2680.0	80.0	0.0	833	2680.0	130.0	0.0	834	2680.0	180.0	0.0
835	2680.0	230.0	0.0	836	2680.0	280.0	0.0	837	2680.0	330.0	0.0
838	2680.0	380.0	0.0	839	2680.0	430.0	0.0	840	2680.0	480.0	0.0
841	2680.0	530.0	0.0	842	2680.0	580.0	0.0	843	2700.0	0.0	0.0
844	2700.0	30.0	0.0	845	2700.0	80.0	0.0	846	2700.0	130.0	0.0
847	2700.0	180.0	0.0	848	2700.0	230.0	0.0	849	2700.0	280.0	0.0
850	2700.0	330.0	0.0	851	2700.0	380.0	0.0	852	2700.0	430.0	0.0
853	2700.0	480.0	0.0	854	2700.0	530.0	0.0	855	2700.0	580.0	0.0
856	2700.0	630.0	0.0	857	2750.0	0.0	0.0	858	2750.0	30.0	0.0
859	2750.0	80.0	0.0	860	2750.0	130.0	0.0	861	2750.0	180.0	0.0
862	2750.0	230.0	0.0	863	2750.0	280.0	0.0	864	2750.0	330.0	0.0
865	2750.0	380.0	0.0	866	2750.0	430.0	0.0	867	2750.0	480.0	0.0
868	2750.0	530.0	0.0	869	2750.0	580.0	0.0	870	2750.0	630.0	0.0
871	2800.0	0.0	0.0	872	2800.0	30.0	0.0	873	2800.0	80.0	0.0
874	2800.0	130.0	0.0	875	2800.0	180.0	0.0	876	2800.0	230.0	0.0
877	2800.0	280.0	0.0	878	2800.0	330.0	0.0	879	2800.0	380.0	0.0
880	2800.0	430.0	0.0	881	2800.0	480.0	0.0	882	2800.0	530.0	0.0
883	2800.0	580.0	0.0	884	2800.0	630.0	0.0	885	2850.0	0.0	0.0
886	2850.0	30.0	0.0	887	2850.0	80.0	0.0	888	2850.0	130.0	0.0
889	2850.0	180.0	0.0	890	2850.0	230.0	0.0	891	2850.0	280.0	0.0
892	2850.0	330.0	0.0	893	2850.0	380.0	0.0	894	2850.0	430.0	0.0
895	2850.0	480.0	0.0	896	2850.0	530.0	0.0	897	2850.0	580.0	0.0
898	2850.0	630.0	0.0	899	2900.0	0.0	0.0	900	2900.0	30.0	0.0
901	2900.0	80.0	0.0	902	2900.0	130.0	0.0	903	2900.0	180.0	0.0
904	2900.0	230.0	0.0	905	2900.0	280.0	0.0	906	2900.0	330.0	0.0
907	2900.0	380.0	0.0	908	2900.0	430.0	0.0	909	500.0	580.0	0.0
910	500.0	630.0	0.0	911	0.0	680.0	0.0	912	1170.0	680.0	0.0
913	1660.0	680.0	0.0	914	2260.0	680.0	0.0	915	2680.0	680.0	0.0

916	3000.0	680.0	0.0	917	50.0	680.0	0.0	918	100.0	680.0	0.0
919	150.0	680.0	0.0	920	200.0	680.0	0.0	921	250.0	680.0	0.0
922	300.0	680.0	0.0	923	350.0	680.0	0.0	924	400.0	680.0	0.0
925	450.0	680.0	0.0	926	550.0	680.0	0.0	927	3050.0	-50.0	0.0
928	600.0	680.0	0.0	929	650.0	680.0	0.0	930	700.0	680.0	0.0
931	750.0	680.0	0.0	932	800.0	680.0	0.0	933	850.0	680.0	0.0
934	900.0	680.0	0.0	935	950.0	680.0	0.0	936	1000.0	680.0	0.0
937	1050.0	680.0	0.0	938	1100.0	680.0	0.0	939	1150.0	680.0	0.0
940	1200.0	680.0	0.0	941	1250.0	680.0	0.0	942	1300.0	680.0	0.0
943	1350.0	680.0	0.0	944	1400.0	680.0	0.0	945	1450.0	680.0	0.0
946	1500.0	680.0	0.0	947	1550.0	680.0	0.0	948	1600.0	680.0	0.0
949	2900.0	680.0	0.0	950	1700.0	680.0	0.0	951	1750.0	680.0	0.0
952	1800.0	680.0	0.0	953	1850.0	680.0	0.0	954	1900.0	680.0	0.0
955	1950.0	680.0	0.0	956	2000.0	680.0	0.0	957	2050.0	680.0	0.0
958	2100.0	680.0	0.0	959	2150.0	680.0	0.0	960	2200.0	680.0	0.0
961	2950.0	680.0	0.0	962	2300.0	680.0	0.0	963	2350.0	680.0	0.0
964	2400.0	680.0	0.0	965	2450.0	680.0	0.0	966	2500.0	680.0	0.0
967	2550.0	680.0	0.0	968	2600.0	680.0	0.0	969	2650.0	680.0	0.0
970	2700.0	680.0	0.0	971	2750.0	680.0	0.0	972	2800.0	680.0	0.0
973	2850.0	680.0	0.0	974	500.0	680.0	0.0	975	0.0	-50.0	0.0
976	2680.0	-50.0	0.0	977	2260.0	-50.0	0.0	978	1170.0	-50.0	0.0
979	570.0	-50.0	0.0	980	1660.0	-50.0	0.0	981	3000.0	-50.0	0.0
982	50.0	-50.0	0.0	983	100.0	-50.0	0.0	984	150.0	-50.0	0.0
985	200.0	-50.0	0.0	986	250.0	-50.0	0.0	987	300.0	-50.0	0.0
988	350.0	-50.0	0.0	989	400.0	-50.0	0.0	990	450.0	-50.0	0.0
991	500.0	-50.0	0.0	992	550.0	-50.0	0.0	993	600.0	-50.0	0.0
994	650.0	-50.0	0.0	995	700.0	-50.0	0.0	996	750.0	-50.0	0.0
997	800.0	-50.0	0.0	998	850.0	-50.0	0.0	999	900.0	-50.0	0.0
1000	950.0	-50.0	0.0	1001	1000.0	-50.0	0.0	1002	1050.0	-50.0	0.0
1003	1100.0	-50.0	0.0	1004	1150.0	-50.0	0.0	1005	1200.0	-50.0	0.0
1006	1250.0	-50.0	0.0	1007	1300.0	-50.0	0.0	1008	1350.0	-50.0	0.0
1009	1400.0	-50.0	0.0	1010	1450.0	-50.0	0.0	1011	1500.0	-50.0	0.0
1012	1550.0	-50.0	0.0	1013	1600.0	-50.0	0.0	1014	2950.0	-50.0	0.0
1015	1700.0	-50.0	0.0	1016	1750.0	-50.0	0.0	1017	1800.0	-50.0	0.0
1018	1850.0	-50.0	0.0	1019	1900.0	-50.0	0.0	1020	1950.0	-50.0	0.0
1021	2000.0	-50.0	0.0	1022	2050.0	-50.0	0.0	1023	2100.0	-50.0	0.0
1024	2150.0	-50.0	0.0	1025	2200.0	-50.0	0.0	1026	2300.0	-50.0	0.0
1027	2350.0	-50.0	0.0	1028	2400.0	-50.0	0.0	1029	2450.0	-50.0	0.0
1030	2500.0	-50.0	0.0	1031	2550.0	-50.0	0.0	1032	2600.0	-50.0	0.0
1033	2650.0	-50.0	0.0	1034	2700.0	-50.0	0.0	1035	2750.0	-50.0	0.0
1036	2800.0	-50.0	0.0	1037	2850.0	-50.0	0.0	1038	2900.0	-50.0	0.0
1039	-50.0	0.0	0.0	1040	-50.0	630.0	0.0	1041	-50.0	30.0	0.0
1042	-50.0	80.0	0.0	1043	-50.0	130.0	0.0	1044	-50.0	180.0	0.0
1045	-50.0	230.0	0.0	1046	-50.0	280.0	0.0	1047	-50.0	330.0	0.0
1048	-50.0	380.0	0.0	1049	-50.0	430.0	0.0	1050	-50.0	480.0	0.0
1051	-50.0	530.0	0.0	1052	-50.0	580.0	0.0	1053	-50.0	680.0	0.0
1054	-50.0	-50.0	0.0	1055	3050.0	0.0	0.0	1056	3050.0	630.0	0.0
1057	3050.0	30.0	0.0	1058	3050.0	80.0	0.0	1059	3050.0	130.0	0.0
1060	3050.0	180.0	0.0	1061	3050.0	230.0	0.0	1062	3050.0	280.0	0.0
1063	3050.0	330.0	0.0	1064	3050.0	380.0	0.0	1065	3050.0	430.0	0.0
1066	3050.0	480.0	0.0	1067	3050.0	530.0	0.0	1068	3050.0	580.0	0.0
1069	3050.0	680.0	0.0	1070	570.0	680.0	0.0	1071	3000.0	315.0	300.0
1072	0.0	315.0	300.0	1073	285.0	630.0	300.0	1074	285.0	0.0	300.0
1075	870.0	630.0	300.0	1076	870.0	0.0	300.0	1077	1960.0	0.0	300.0
1078	1960.0	630.0	300.0								



14_MOD_NUMERAZIONE_NODI

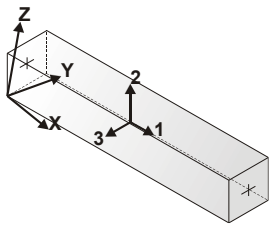
8. MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

8.1. TABELLA DATI TRAVI

Il programma utilizza per la modellazione elementi a due nodi denominati in generale travi.

Ogni elemento trave è individuato dal nodo iniziale e dal nodo finale.

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



orientamento elementi 2D non verticali

orientamento elementi 2D verticali

In particolare per ogni elemento viene indicato in tabella:

Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione dell'elemento, attorno al proprio asse, nel caso in cui l'orientamento di default non sia adottabile; l'orientamento di default prevede per gli elementi non verticali l'asse 2 contenuto nel piano verticale e l'asse 3 orizzontale, per gli elementi verticali l'asse 2 diretto secondo X negativo e l'asse 3 diretto secondo Y negativo
Svincolo I (J)	codici di svincolo per le azioni interne; i primi sei codici si riferiscono al nodo iniziale, i restanti sei al nodo finale (il valore 1 indica che la relativa azione interna non è attiva)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione della trave su suolo elastico
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

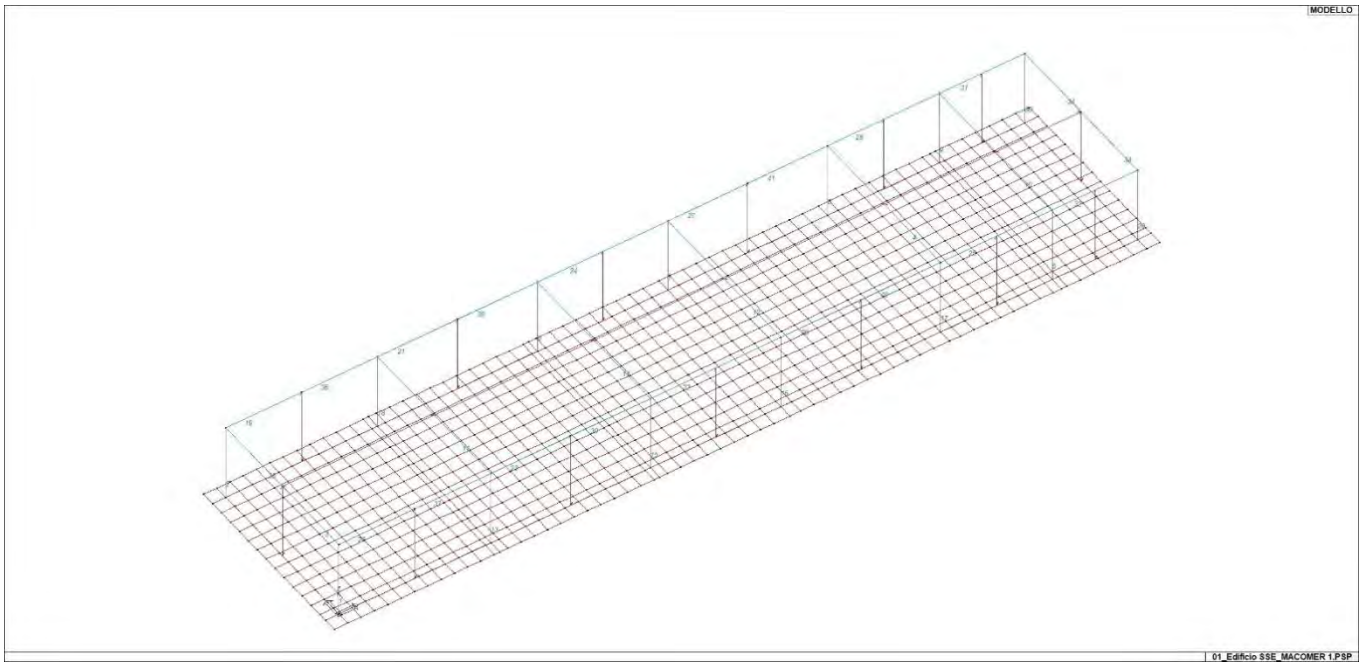
Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
2	TRAVI A UNA CAMPATA
3	TRAVE A PIU' CAMPATE
4	TRAVE A UNA CAMPATA SU TERRENO ALLA WINKLER
5	TRAVI SU TERRENO ALLA WINKLER CON CARICO TRASVERSALE
6	TELAI PIANI CON CERNIERE ALLA BASE
7	TELAI PIANI CON INCASTRI ALLA BASE
11	STRUTTURE SOGGETTE A VARIAZIONI TERMICHE
12	STRUTTURE SU TERRENO ALLA WINKLER SOTTOPOSTE A CARICHI DISTRIBUITI TRIANGOLARI
21	DRILLING
24	TENSIONI E ROTAZIONI RISPETTO ALLA CORDA DI ELEMENTI TRAVE
27	FRECCIA DI ELEMENTI TRAVE
42	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
43	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
44	VERIFICA ALLE TA DI STRUTTURE IN C.A.
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
47	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
52	FATTORE DI STRUTTURA
53	SOVRARESISTENZE
54	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO

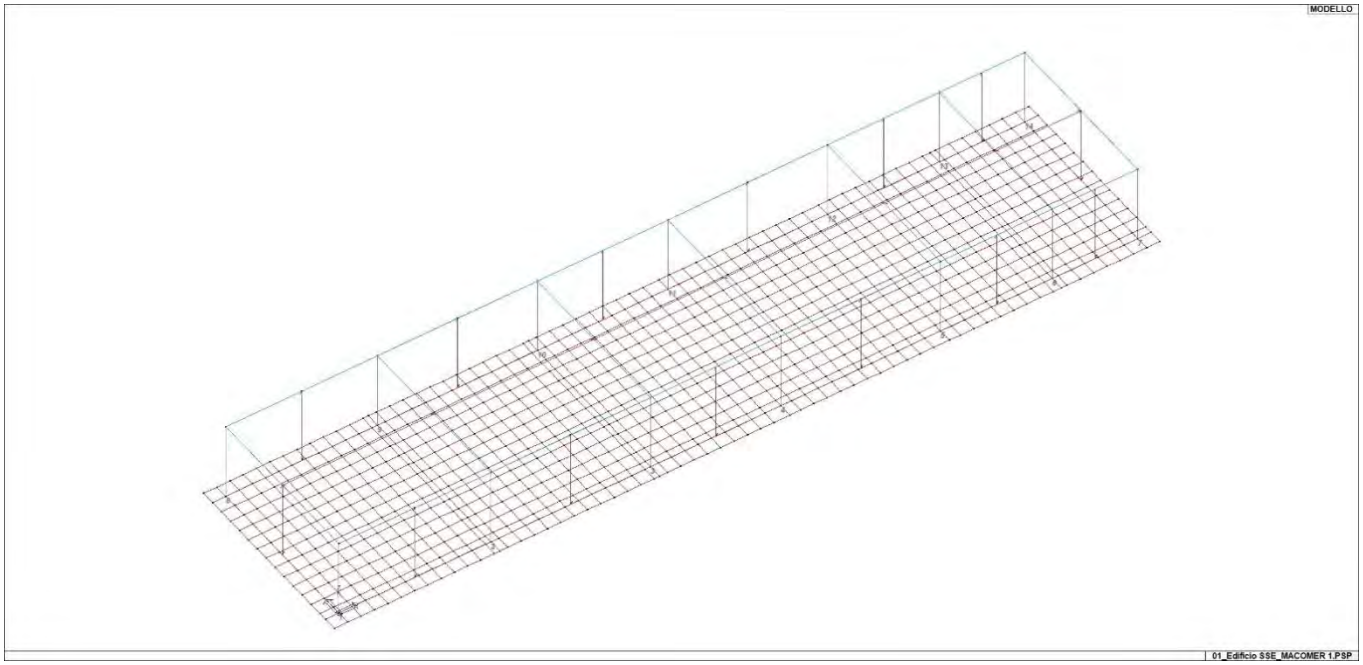
56	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
57	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
58	LUCE LIBERA DI COLONNE IN ACCIAIO
59	SVERGOLAMENTO DI TRAVI IN ACCIAIO
64	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	VALUTAZIONE EFFETTO P-δ SU PILASTRATA
74	VALUTAZIONE EFFETTO P-δ SU TELAIO 3D
85	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
87	ANALISI ELASTO PLASTICA INCREMENTALE
88	ANALISI ELASTO PLASTICA INCREMENTALE
98	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
99	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
102	SNELLEZZE EC5
130	PROGETTO E VERIFICA DI TRAVI PREM

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Pilas.	1	2	5	1					
2	Pilas.	3	4	5	1					
3	Trave	2	1072	5	2					
4	Trave	7	16	5	2					
5	Pilas.	9	19	5	1					
6	Pilas.	11	10	5	1					
7	Pilas.	13	14	5	1					
8	Pilas.	15	16	5	1					
9	Pilas.	17	18	5	1					
10	Trave	19	18	5	2					
11	Trave	20	6	5	2					
12	Trave	8	14	5	2					
13	Pilas.	22	20	5	1					
14	Trave	5	10	5	2					
15	Pilas.	21	5	5	1					
16	Pilas.	23	8	5	1					
17	Pilas.	12	7	5	1					
18	Pilas.	206	6	5	1					
19	Trave	4	1073	5	2					
20	Trave	2	1074	5	2					
21	Trave	6	1075	5	2					
22	Trave	5	8	5	2					
23	Trave	20	1076	5	2					
24	Trave	10	14	5	2					
25	Trave	7	19	5	2					
26	Trave	8	1077	5	2					
27	Trave	14	1078	5	2					
28	Trave	16	18	5	2					
29	Pilas.	25	26	5	1					
30	Pilas.	27	28	5	1					
31	Trave	18	28	5	2					
32	Trave	19	26	5	2					

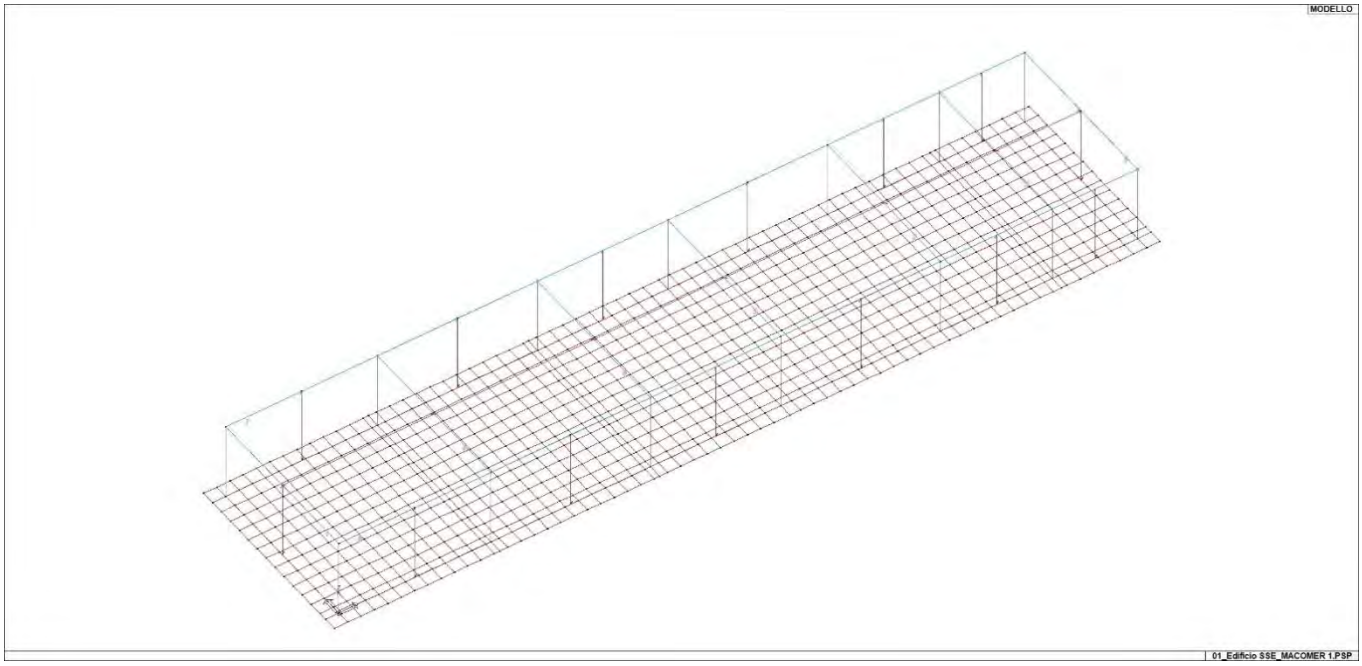
33	Trave	26	1071	5	2
34	Trave	1071	28	5	2
35	Trave	1072	4	5	2
36	Trave	1073	6	5	2
37	Trave	1074	20	5	2
38	Trave	1075	10	5	2
39	Trave	1076	5	5	2
40	Trave	1077	7	5	2
41	Trave	1078	16	5	2



15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_PILASTRATE



15_MOD_NUMERAZIONE_D2_TRAVATE

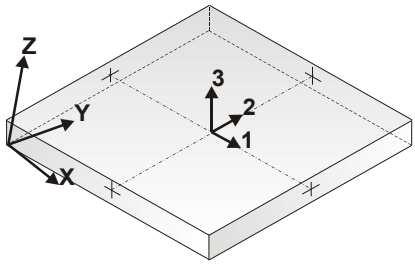
9. MODELLAZIONE STRUTTURA: ELEMENTI SHELL

9.1. LEGENDA TABELLA DATI SHELL

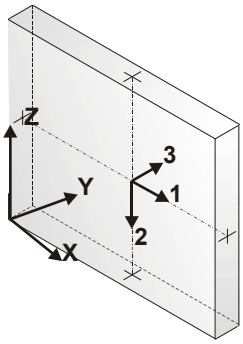
Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell.

Ogni elemento shell è individuato dai nodi I, J, K, L (L=I per gli elementi a tre nodi).

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



orientamento elementi 3D non verticali



orientamento elementi 3D verticali

In particolare per ogni elemento viene indicato in tabella:

Elem.	numero dell'elemento
Note	codice di comportamento: *Guscio* (elemento guscio in elevazione non verticale) *Guscio fond.* (elemento guscio su suolo elastico) *Setto* (elemento guscio in elevazione verticale) *Membrana* (elemento guscio con comportamento membranale)
Nodo I (J, K, L)	numero del nodo I (J, K, L)
Mat.	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico verticale
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
8	MENSOLE CON ELEMENTI PLATE E MATERIALE ORTOTROPO
10	PIASTRA CON ELEMENTI PLATE E MATERIALE ORTOTROPO
21	DRILLING
25	TENSIONI DI ELEMENTI PLATE
31	REALIZZAZIONE DI MESH PIANA SU GEOMETRIA CON PUNTI FISSI IMPORTATA DA FILE .DXF
32	REALIZZAZIONE DI MESH PIANA SU GEOMETRIA CON SEGMENTI E FORI INTERNI IMPORTATA DA FILE .DXF
33	REALIZZAZIONE DI MESH PIANE SU GEOMETRIE COSTRUITE IN PRO_SAP
34	ANALISI DI BUCKLING DI PIASTRA ISOTROPA
35	ANALISI DI BUCKLING DI UN CILINDRO COMPRESSO INCASTRATO ALLA BASE
36	ANALISI DI PARETI FORATE
37	BIMETALLIC STRIP (NAFEMS EXERCISE 6)
38	ANALISI ELASTICA DI PIASTRA CON INTAGLIO CIRCOLARE (FLAT BAR WITH EDGE NOTCHES-NAFEMS EXERCISE 9)
39	PLATEA NERVATA
45	VERIFICA A PUNZONAMENTO ALLO SLU DI PIASTRE IN C.A.
117	PROGETTO E VERIFICA DI GUSCI IN MATERIALE XLAM
118	PROGETTO E VERIFICA DI PARETI IN MATERIALE XLAM E RELATIVI COLLEGAMENTI

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore cm	Svincolo	Wink V daN/cm3	Wink O daN/cm3
1	Guscio fond.	1	29	30	31	5	40.0		3.04	1.09
2	Guscio fond.	31	30	32	33	5	40.0		3.04	1.09
3	Guscio fond.	33	32	34	35	5	40.0		3.04	1.09
4	Guscio fond.	35	34	36	37	5	40.0		3.04	1.09
5	Guscio fond.	37	36	38	39	5	40.0		3.04	1.09
6	Guscio fond.	39	38	40	41	5	40.0		3.04	1.09
7	Guscio fond.	41	40	42	43	5	40.0		3.04	1.09
8	Guscio fond.	43	42	44	45	5	40.0		3.04	1.09
9	Guscio fond.	45	44	46	47	5	40.0		3.04	1.09
10	Guscio fond.	47	46	48	49	5	40.0		3.04	1.09
11	Guscio fond.	49	48	50	51	5	40.0		3.04	1.09
12	Guscio fond.	51	50	52	53	5	40.0		3.04	1.09
13	Guscio fond.	53	52	54	3	5	40.0		3.04	1.09

14	Guscio fond.	29	55	56	30	5	40.0	3.04	1.09
15	Guscio fond.	30	56	57	32	5	40.0	3.04	1.09
16	Guscio fond.	32	57	58	34	5	40.0	3.04	1.09
17	Guscio fond.	34	58	59	36	5	40.0	3.04	1.09
18	Guscio fond.	36	59	60	38	5	40.0	3.04	1.09
19	Guscio fond.	38	60	61	40	5	40.0	3.04	1.09
20	Guscio fond.	40	61	62	42	5	40.0	3.04	1.09
21	Guscio fond.	42	62	63	44	5	40.0	3.04	1.09
22	Guscio fond.	44	63	64	46	5	40.0	3.04	1.09
23	Guscio fond.	46	64	65	48	5	40.0	3.04	1.09
24	Guscio fond.	48	65	66	50	5	40.0	3.04	1.09
25	Guscio fond.	50	66	67	52	5	40.0	3.04	1.09
26	Guscio fond.	52	67	68	54	5	40.0	3.04	1.09
27	Guscio fond.	55	69	70	56	5	40.0	3.04	1.09
28	Guscio fond.	56	70	71	57	5	40.0	3.04	1.09
29	Guscio fond.	57	71	72	58	5	40.0	3.04	1.09
30	Guscio fond.	58	72	73	59	5	40.0	3.04	1.09
31	Guscio fond.	59	73	74	60	5	40.0	3.04	1.09
32	Guscio fond.	60	74	75	61	5	40.0	3.04	1.09
33	Guscio fond.	61	75	76	62	5	40.0	3.04	1.09
34	Guscio fond.	62	76	77	63	5	40.0	3.04	1.09
35	Guscio fond.	63	77	78	64	5	40.0	3.04	1.09
36	Guscio fond.	64	78	79	65	5	40.0	3.04	1.09
37	Guscio fond.	65	79	80	66	5	40.0	3.04	1.09
38	Guscio fond.	66	80	81	67	5	40.0	3.04	1.09
39	Guscio fond.	67	81	82	68	5	40.0	3.04	1.09
40	Guscio fond.	69	83	84	70	5	40.0	3.04	1.09
41	Guscio fond.	70	84	85	71	5	40.0	3.04	1.09
42	Guscio fond.	71	85	86	72	5	40.0	3.04	1.09
43	Guscio fond.	72	86	87	73	5	40.0	3.04	1.09
44	Guscio fond.	73	87	88	74	5	40.0	3.04	1.09
45	Guscio fond.	74	88	89	75	5	40.0	3.04	1.09
46	Guscio fond.	75	89	90	76	5	40.0	3.04	1.09
47	Guscio fond.	76	90	91	77	5	40.0	3.04	1.09
48	Guscio fond.	77	91	92	78	5	40.0	3.04	1.09
49	Guscio fond.	78	92	93	79	5	40.0	3.04	1.09
50	Guscio fond.	79	93	94	80	5	40.0	3.04	1.09
51	Guscio fond.	80	94	95	81	5	40.0	3.04	1.09
52	Guscio fond.	81	95	96	82	5	40.0	3.04	1.09
53	Guscio fond.	83	97	98	84	5	40.0	3.04	1.09
54	Guscio fond.	84	98	99	85	5	40.0	3.04	1.09
55	Guscio fond.	85	99	100	86	5	40.0	3.04	1.09
56	Guscio fond.	86	100	101	87	5	40.0	3.04	1.09
57	Guscio fond.	87	101	102	88	5	40.0	3.04	1.09
58	Guscio fond.	88	102	103	89	5	40.0	3.04	1.09
59	Guscio fond.	89	103	104	90	5	40.0	3.04	1.09
60	Guscio fond.	90	104	105	91	5	40.0	3.04	1.09
61	Guscio fond.	91	105	106	92	5	40.0	3.04	1.09
62	Guscio fond.	92	106	107	93	5	40.0	3.04	1.09
63	Guscio fond.	93	107	108	94	5	40.0	3.04	1.09
64	Guscio fond.	94	108	109	95	5	40.0	3.04	1.09
65	Guscio fond.	95	109	110	96	5	40.0	3.04	1.09
66	Guscio fond.	97	111	112	98	5	40.0	3.04	1.09
67	Guscio fond.	98	112	113	99	5	40.0	3.04	1.09
68	Guscio fond.	99	113	114	100	5	40.0	3.04	1.09
69	Guscio fond.	100	114	115	101	5	40.0	3.04	1.09
70	Guscio fond.	101	115	116	102	5	40.0	3.04	1.09
71	Guscio fond.	102	116	117	103	5	40.0	3.04	1.09
72	Guscio fond.	103	117	118	104	5	40.0	3.04	1.09
73	Guscio fond.	104	118	119	105	5	40.0	3.04	1.09
74	Guscio fond.	105	119	120	106	5	40.0	3.04	1.09
75	Guscio fond.	106	120	121	107	5	40.0	3.04	1.09
76	Guscio fond.	107	121	122	108	5	40.0	3.04	1.09
77	Guscio fond.	108	122	123	109	5	40.0	3.04	1.09
78	Guscio fond.	109	123	124	110	5	40.0	3.04	1.09
79	Guscio fond.	111	125	126	112	5	40.0	3.04	1.09
80	Guscio fond.	112	126	127	113	5	40.0	3.04	1.09
81	Guscio fond.	113	127	128	114	5	40.0	3.04	1.09
82	Guscio fond.	114	128	129	115	5	40.0	3.04	1.09
83	Guscio fond.	115	129	130	116	5	40.0	3.04	1.09
84	Guscio fond.	116	130	131	117	5	40.0	3.04	1.09
85	Guscio fond.	117	131	132	118	5	40.0	3.04	1.09
86	Guscio fond.	118	132	133	119	5	40.0	3.04	1.09
87	Guscio fond.	119	133	134	120	5	40.0	3.04	1.09
88	Guscio fond.	120	134	135	121	5	40.0	3.04	1.09
89	Guscio fond.	121	135	136	122	5	40.0	3.04	1.09

90	Guscio fond.	122	136	137	123	5	40.0	3.04	1.09
91	Guscio fond.	123	137	138	124	5	40.0	3.04	1.09
92	Guscio fond.	125	139	140	126	5	40.0	3.04	1.09
93	Guscio fond.	126	140	141	127	5	40.0	3.04	1.09
94	Guscio fond.	127	141	142	128	5	40.0	3.04	1.09
95	Guscio fond.	128	142	143	129	5	40.0	3.04	1.09
96	Guscio fond.	129	143	144	130	5	40.0	3.04	1.09
97	Guscio fond.	130	144	145	131	5	40.0	3.04	1.09
98	Guscio fond.	131	145	146	132	5	40.0	3.04	1.09
99	Guscio fond.	132	146	147	133	5	40.0	3.04	1.09
100	Guscio fond.	133	147	148	134	5	40.0	3.04	1.09
101	Guscio fond.	134	148	149	135	5	40.0	3.04	1.09
102	Guscio fond.	135	149	150	136	5	40.0	3.04	1.09
103	Guscio fond.	136	150	151	137	5	40.0	3.04	1.09
104	Guscio fond.	137	151	152	138	5	40.0	3.04	1.09
105	Guscio fond.	139	153	154	140	5	40.0	3.04	1.09
106	Guscio fond.	140	154	155	141	5	40.0	3.04	1.09
107	Guscio fond.	141	155	156	142	5	40.0	3.04	1.09
108	Guscio fond.	142	156	157	143	5	40.0	3.04	1.09
109	Guscio fond.	143	157	158	144	5	40.0	3.04	1.09
110	Guscio fond.	144	158	159	145	5	40.0	3.04	1.09
111	Guscio fond.	145	159	160	146	5	40.0	3.04	1.09
112	Guscio fond.	146	160	161	147	5	40.0	3.04	1.09
113	Guscio fond.	147	161	162	148	5	40.0	3.04	1.09
114	Guscio fond.	148	162	163	149	5	40.0	3.04	1.09
115	Guscio fond.	149	163	164	150	5	40.0	3.04	1.09
116	Guscio fond.	150	164	165	151	5	40.0	3.04	1.09
117	Guscio fond.	151	165	166	152	5	40.0	3.04	1.09
118	Guscio fond.	153	167	168	154	5	40.0	3.04	1.09
119	Guscio fond.	154	168	169	155	5	40.0	3.04	1.09
120	Guscio fond.	155	169	170	156	5	40.0	3.04	1.09
121	Guscio fond.	156	170	171	157	5	40.0	3.04	1.09
122	Guscio fond.	157	171	172	158	5	40.0	3.04	1.09
123	Guscio fond.	158	172	173	159	5	40.0	3.04	1.09
124	Guscio fond.	159	173	174	160	5	40.0	3.04	1.09
125	Guscio fond.	160	174	175	161	5	40.0	3.04	1.09
126	Guscio fond.	161	175	176	162	5	40.0	3.04	1.09
127	Guscio fond.	162	176	177	163	5	40.0	3.04	1.09
128	Guscio fond.	163	177	178	164	5	40.0	3.04	1.09
129	Guscio fond.	896	513	526	897	5	40.0	3.04	1.09
130	Guscio fond.	897	526	527	898	5	40.0	3.04	1.09
131	Guscio fond.	167	180	181	168	5	40.0	3.04	1.09
132	Guscio fond.	168	181	182	169	5	40.0	3.04	1.09
133	Guscio fond.	169	182	183	170	5	40.0	3.04	1.09
134	Guscio fond.	170	183	184	171	5	40.0	3.04	1.09
135	Guscio fond.	171	184	185	172	5	40.0	3.04	1.09
136	Guscio fond.	172	185	186	173	5	40.0	3.04	1.09
137	Guscio fond.	173	186	187	174	5	40.0	3.04	1.09
138	Guscio fond.	174	187	188	175	5	40.0	3.04	1.09
139	Guscio fond.	175	188	189	176	5	40.0	3.04	1.09
140	Guscio fond.	176	189	190	177	5	40.0	3.04	1.09
141	Guscio fond.	177	190	191	178	5	40.0	3.04	1.09
142	Guscio fond.	895	24	513	896	5	40.0	3.04	1.09
143	Guscio fond.	894	908	24	895	5	40.0	3.04	1.09
144	Guscio fond.	180	22	194	181	5	40.0	3.04	1.09
145	Guscio fond.	181	194	195	182	5	40.0	3.04	1.09
146	Guscio fond.	182	195	196	183	5	40.0	3.04	1.09
147	Guscio fond.	183	196	197	184	5	40.0	3.04	1.09
148	Guscio fond.	184	197	198	185	5	40.0	3.04	1.09
149	Guscio fond.	185	198	199	186	5	40.0	3.04	1.09
150	Guscio fond.	186	199	200	187	5	40.0	3.04	1.09
151	Guscio fond.	187	200	201	188	5	40.0	3.04	1.09
152	Guscio fond.	188	201	202	189	5	40.0	3.04	1.09
153	Guscio fond.	189	202	203	190	5	40.0	3.04	1.09
154	Guscio fond.	190	203	204	191	5	40.0	3.04	1.09
155	Guscio fond.	191	204	205	192	5	40.0	3.04	1.09
156	Guscio fond.	192	205	206	193	5	40.0	3.04	1.09
157	Guscio fond.	22	207	208	194	5	40.0	3.04	1.09
158	Guscio fond.	194	208	209	195	5	40.0	3.04	1.09
159	Guscio fond.	195	209	210	196	5	40.0	3.04	1.09
160	Guscio fond.	196	210	211	197	5	40.0	3.04	1.09
161	Guscio fond.	197	211	212	198	5	40.0	3.04	1.09
162	Guscio fond.	198	212	213	199	5	40.0	3.04	1.09
163	Guscio fond.	199	213	214	200	5	40.0	3.04	1.09
164	Guscio fond.	200	214	215	201	5	40.0	3.04	1.09
165	Guscio fond.	201	215	216	202	5	40.0	3.04	1.09

166	Guscio fond.	202	216	217	203	5	40.0	3.04	1.09
167	Guscio fond.	203	217	218	204	5	40.0	3.04	1.09
168	Guscio fond.	204	218	219	205	5	40.0	3.04	1.09
169	Guscio fond.	718	1068	1056	27	5	40.0	3.04	1.09
170	Guscio fond.	207	221	222	208	5	40.0	3.04	1.09
171	Guscio fond.	208	222	223	209	5	40.0	3.04	1.09
172	Guscio fond.	209	223	224	210	5	40.0	3.04	1.09
173	Guscio fond.	210	224	225	211	5	40.0	3.04	1.09
174	Guscio fond.	211	225	226	212	5	40.0	3.04	1.09
175	Guscio fond.	212	226	227	213	5	40.0	3.04	1.09
176	Guscio fond.	213	227	228	214	5	40.0	3.04	1.09
177	Guscio fond.	214	228	229	215	5	40.0	3.04	1.09
178	Guscio fond.	215	229	230	216	5	40.0	3.04	1.09
179	Guscio fond.	216	230	231	217	5	40.0	3.04	1.09
180	Guscio fond.	217	231	232	218	5	40.0	3.04	1.09
181	Guscio fond.	218	232	233	219	5	40.0	3.04	1.09
182	Guscio fond.	219	233	234	220	5	40.0	3.04	1.09
183	Guscio fond.	221	235	236	222	5	40.0	3.04	1.09
184	Guscio fond.	222	236	237	223	5	40.0	3.04	1.09
185	Guscio fond.	223	237	238	224	5	40.0	3.04	1.09
186	Guscio fond.	224	238	239	225	5	40.0	3.04	1.09
187	Guscio fond.	225	239	240	226	5	40.0	3.04	1.09
188	Guscio fond.	226	240	241	227	5	40.0	3.04	1.09
189	Guscio fond.	227	241	242	228	5	40.0	3.04	1.09
190	Guscio fond.	228	242	243	229	5	40.0	3.04	1.09
191	Guscio fond.	229	243	244	230	5	40.0	3.04	1.09
192	Guscio fond.	230	244	245	231	5	40.0	3.04	1.09
193	Guscio fond.	231	245	246	232	5	40.0	3.04	1.09
194	Guscio fond.	232	246	247	233	5	40.0	3.04	1.09
195	Guscio fond.	233	247	248	234	5	40.0	3.04	1.09
196	Guscio fond.	235	249	250	236	5	40.0	3.04	1.09
197	Guscio fond.	236	250	251	237	5	40.0	3.04	1.09
198	Guscio fond.	237	251	252	238	5	40.0	3.04	1.09
199	Guscio fond.	238	252	253	239	5	40.0	3.04	1.09
200	Guscio fond.	239	253	254	240	5	40.0	3.04	1.09
201	Guscio fond.	240	254	255	241	5	40.0	3.04	1.09
202	Guscio fond.	241	255	256	242	5	40.0	3.04	1.09
203	Guscio fond.	242	256	257	243	5	40.0	3.04	1.09
204	Guscio fond.	243	257	258	244	5	40.0	3.04	1.09
205	Guscio fond.	244	258	259	245	5	40.0	3.04	1.09
206	Guscio fond.	245	259	260	246	5	40.0	3.04	1.09
207	Guscio fond.	246	260	261	247	5	40.0	3.04	1.09
208	Guscio fond.	247	261	262	248	5	40.0	3.04	1.09
209	Guscio fond.	249	263	264	250	5	40.0	3.04	1.09
210	Guscio fond.	250	264	265	251	5	40.0	3.04	1.09
211	Guscio fond.	251	265	266	252	5	40.0	3.04	1.09
212	Guscio fond.	252	266	267	253	5	40.0	3.04	1.09
213	Guscio fond.	253	267	268	254	5	40.0	3.04	1.09
214	Guscio fond.	254	268	269	255	5	40.0	3.04	1.09
215	Guscio fond.	255	269	270	256	5	40.0	3.04	1.09
216	Guscio fond.	256	270	271	257	5	40.0	3.04	1.09
217	Guscio fond.	257	271	272	258	5	40.0	3.04	1.09
218	Guscio fond.	258	272	273	259	5	40.0	3.04	1.09
219	Guscio fond.	259	273	274	260	5	40.0	3.04	1.09
220	Guscio fond.	260	274	275	261	5	40.0	3.04	1.09
221	Guscio fond.	261	275	276	262	5	40.0	3.04	1.09
222	Guscio fond.	263	277	278	264	5	40.0	3.04	1.09
223	Guscio fond.	264	278	279	265	5	40.0	3.04	1.09
224	Guscio fond.	265	279	280	266	5	40.0	3.04	1.09
225	Guscio fond.	266	280	281	267	5	40.0	3.04	1.09
226	Guscio fond.	267	281	282	268	5	40.0	3.04	1.09
227	Guscio fond.	268	282	283	269	5	40.0	3.04	1.09
228	Guscio fond.	269	283	284	270	5	40.0	3.04	1.09
229	Guscio fond.	270	284	285	271	5	40.0	3.04	1.09
230	Guscio fond.	271	285	286	272	5	40.0	3.04	1.09
231	Guscio fond.	272	286	287	273	5	40.0	3.04	1.09
232	Guscio fond.	273	287	288	274	5	40.0	3.04	1.09
233	Guscio fond.	274	288	289	275	5	40.0	3.04	1.09
234	Guscio fond.	275	289	290	276	5	40.0	3.04	1.09
235	Guscio fond.	277	291	292	278	5	40.0	3.04	1.09
236	Guscio fond.	278	292	293	279	5	40.0	3.04	1.09
237	Guscio fond.	279	293	294	280	5	40.0	3.04	1.09
238	Guscio fond.	280	294	295	281	5	40.0	3.04	1.09
239	Guscio fond.	281	295	296	282	5	40.0	3.04	1.09
240	Guscio fond.	282	296	297	283	5	40.0	3.04	1.09
241	Guscio fond.	283	297	298	284	5	40.0	3.04	1.09

242	Guscio fond.	284	298	299	285	5	40.0	3.04	1.09
243	Guscio fond.	285	299	300	286	5	40.0	3.04	1.09
244	Guscio fond.	286	300	301	287	5	40.0	3.04	1.09
245	Guscio fond.	287	301	302	288	5	40.0	3.04	1.09
246	Guscio fond.	288	302	303	289	5	40.0	3.04	1.09
247	Guscio fond.	289	303	304	290	5	40.0	3.04	1.09
248	Guscio fond.	291	305	306	292	5	40.0	3.04	1.09
249	Guscio fond.	292	306	307	293	5	40.0	3.04	1.09
250	Guscio fond.	293	307	308	294	5	40.0	3.04	1.09
251	Guscio fond.	294	308	309	295	5	40.0	3.04	1.09
252	Guscio fond.	295	309	310	296	5	40.0	3.04	1.09
253	Guscio fond.	296	310	311	297	5	40.0	3.04	1.09
254	Guscio fond.	297	311	312	298	5	40.0	3.04	1.09
255	Guscio fond.	298	312	313	299	5	40.0	3.04	1.09
256	Guscio fond.	299	313	314	300	5	40.0	3.04	1.09
257	Guscio fond.	300	314	315	301	5	40.0	3.04	1.09
258	Guscio fond.	301	315	316	302	5	40.0	3.04	1.09
259	Guscio fond.	302	316	317	303	5	40.0	3.04	1.09
260	Guscio fond.	303	317	318	304	5	40.0	3.04	1.09
261	Guscio fond.	305	319	320	306	5	40.0	3.04	1.09
262	Guscio fond.	306	320	321	307	5	40.0	3.04	1.09
263	Guscio fond.	307	321	322	308	5	40.0	3.04	1.09
264	Guscio fond.	308	322	323	309	5	40.0	3.04	1.09
265	Guscio fond.	309	323	324	310	5	40.0	3.04	1.09
266	Guscio fond.	310	324	325	311	5	40.0	3.04	1.09
267	Guscio fond.	311	325	326	312	5	40.0	3.04	1.09
268	Guscio fond.	312	326	327	313	5	40.0	3.04	1.09
269	Guscio fond.	313	327	328	314	5	40.0	3.04	1.09
270	Guscio fond.	314	328	329	315	5	40.0	3.04	1.09
271	Guscio fond.	315	329	330	316	5	40.0	3.04	1.09
272	Guscio fond.	316	330	331	317	5	40.0	3.04	1.09
273	Guscio fond.	317	331	332	318	5	40.0	3.04	1.09
274	Guscio fond.	319	333	334	320	5	40.0	3.04	1.09
275	Guscio fond.	320	334	335	321	5	40.0	3.04	1.09
276	Guscio fond.	321	335	336	322	5	40.0	3.04	1.09
277	Guscio fond.	322	336	337	323	5	40.0	3.04	1.09
278	Guscio fond.	323	337	338	324	5	40.0	3.04	1.09
279	Guscio fond.	324	338	339	325	5	40.0	3.04	1.09
280	Guscio fond.	325	339	340	326	5	40.0	3.04	1.09
281	Guscio fond.	326	340	341	327	5	40.0	3.04	1.09
282	Guscio fond.	327	341	342	328	5	40.0	3.04	1.09
283	Guscio fond.	328	342	343	329	5	40.0	3.04	1.09
284	Guscio fond.	329	343	344	330	5	40.0	3.04	1.09
285	Guscio fond.	330	344	345	331	5	40.0	3.04	1.09
286	Guscio fond.	331	345	346	332	5	40.0	3.04	1.09
287	Guscio fond.	333	347	348	334	5	40.0	3.04	1.09
288	Guscio fond.	334	348	349	335	5	40.0	3.04	1.09
289	Guscio fond.	335	349	350	336	5	40.0	3.04	1.09
290	Guscio fond.	336	350	351	337	5	40.0	3.04	1.09
291	Guscio fond.	337	351	352	338	5	40.0	3.04	1.09
292	Guscio fond.	338	352	353	339	5	40.0	3.04	1.09
293	Guscio fond.	339	353	354	340	5	40.0	3.04	1.09
294	Guscio fond.	340	354	355	341	5	40.0	3.04	1.09
295	Guscio fond.	341	355	356	342	5	40.0	3.04	1.09
296	Guscio fond.	342	356	357	343	5	40.0	3.04	1.09
297	Guscio fond.	343	357	358	344	5	40.0	3.04	1.09
298	Guscio fond.	344	358	359	345	5	40.0	3.04	1.09
299	Guscio fond.	345	359	360	346	5	40.0	3.04	1.09
300	Guscio fond.	347	361	362	348	5	40.0	3.04	1.09
301	Guscio fond.	348	362	363	349	5	40.0	3.04	1.09
302	Guscio fond.	349	363	364	350	5	40.0	3.04	1.09
303	Guscio fond.	350	364	365	351	5	40.0	3.04	1.09
304	Guscio fond.	351	365	366	352	5	40.0	3.04	1.09
305	Guscio fond.	352	366	367	353	5	40.0	3.04	1.09
306	Guscio fond.	353	367	368	354	5	40.0	3.04	1.09
307	Guscio fond.	354	368	369	355	5	40.0	3.04	1.09
308	Guscio fond.	355	369	370	356	5	40.0	3.04	1.09
309	Guscio fond.	356	370	371	357	5	40.0	3.04	1.09
310	Guscio fond.	357	371	372	358	5	40.0	3.04	1.09
311	Guscio fond.	358	372	373	359	5	40.0	3.04	1.09
312	Guscio fond.	359	373	374	360	5	40.0	3.04	1.09
313	Guscio fond.	361	21	375	362	5	40.0	3.04	1.09
314	Guscio fond.	362	375	376	363	5	40.0	3.04	1.09
315	Guscio fond.	363	376	377	364	5	40.0	3.04	1.09
316	Guscio fond.	364	377	378	365	5	40.0	3.04	1.09
317	Guscio fond.	365	378	379	366	5	40.0	3.04	1.09

318	Guscio fond.	366	379	380	367	5	40.0	3.04	1.09
319	Guscio fond.	367	380	381	368	5	40.0	3.04	1.09
320	Guscio fond.	368	381	382	369	5	40.0	3.04	1.09
321	Guscio fond.	369	382	383	370	5	40.0	3.04	1.09
322	Guscio fond.	370	383	384	371	5	40.0	3.04	1.09
323	Guscio fond.	371	384	385	372	5	40.0	3.04	1.09
324	Guscio fond.	372	385	386	373	5	40.0	3.04	1.09
325	Guscio fond.	373	386	11	374	5	40.0	3.04	1.09
326	Guscio fond.	21	387	388	375	5	40.0	3.04	1.09
327	Guscio fond.	375	388	389	376	5	40.0	3.04	1.09
328	Guscio fond.	376	389	390	377	5	40.0	3.04	1.09
329	Guscio fond.	377	390	391	378	5	40.0	3.04	1.09
330	Guscio fond.	378	391	392	379	5	40.0	3.04	1.09
331	Guscio fond.	379	392	393	380	5	40.0	3.04	1.09
332	Guscio fond.	380	393	394	381	5	40.0	3.04	1.09
333	Guscio fond.	381	394	395	382	5	40.0	3.04	1.09
334	Guscio fond.	382	395	396	383	5	40.0	3.04	1.09
335	Guscio fond.	383	396	397	384	5	40.0	3.04	1.09
336	Guscio fond.	384	397	398	385	5	40.0	3.04	1.09
337	Guscio fond.	385	398	399	386	5	40.0	3.04	1.09
338	Guscio fond.	386	399	400	11	5	40.0	3.04	1.09
339	Guscio fond.	387	401	402	388	5	40.0	3.04	1.09
340	Guscio fond.	388	402	403	389	5	40.0	3.04	1.09
341	Guscio fond.	389	403	404	390	5	40.0	3.04	1.09
342	Guscio fond.	390	404	405	391	5	40.0	3.04	1.09
343	Guscio fond.	391	405	406	392	5	40.0	3.04	1.09
344	Guscio fond.	392	406	407	393	5	40.0	3.04	1.09
345	Guscio fond.	393	407	408	394	5	40.0	3.04	1.09
346	Guscio fond.	394	408	409	395	5	40.0	3.04	1.09
347	Guscio fond.	395	409	410	396	5	40.0	3.04	1.09
348	Guscio fond.	396	410	411	397	5	40.0	3.04	1.09
349	Guscio fond.	397	411	412	398	5	40.0	3.04	1.09
350	Guscio fond.	398	412	413	399	5	40.0	3.04	1.09
351	Guscio fond.	399	413	414	400	5	40.0	3.04	1.09
352	Guscio fond.	401	415	416	402	5	40.0	3.04	1.09
353	Guscio fond.	402	416	417	403	5	40.0	3.04	1.09
354	Guscio fond.	403	417	418	404	5	40.0	3.04	1.09
355	Guscio fond.	404	418	419	405	5	40.0	3.04	1.09
356	Guscio fond.	405	419	420	406	5	40.0	3.04	1.09
357	Guscio fond.	406	420	421	407	5	40.0	3.04	1.09
358	Guscio fond.	407	421	422	408	5	40.0	3.04	1.09
359	Guscio fond.	408	422	423	409	5	40.0	3.04	1.09
360	Guscio fond.	409	423	424	410	5	40.0	3.04	1.09
361	Guscio fond.	410	424	425	411	5	40.0	3.04	1.09
362	Guscio fond.	411	425	426	412	5	40.0	3.04	1.09
363	Guscio fond.	412	426	427	413	5	40.0	3.04	1.09
364	Guscio fond.	413	427	428	414	5	40.0	3.04	1.09
365	Guscio fond.	415	429	430	416	5	40.0	3.04	1.09
366	Guscio fond.	416	430	431	417	5	40.0	3.04	1.09
367	Guscio fond.	417	431	432	418	5	40.0	3.04	1.09
368	Guscio fond.	418	432	433	419	5	40.0	3.04	1.09
369	Guscio fond.	419	433	434	420	5	40.0	3.04	1.09
370	Guscio fond.	420	434	435	421	5	40.0	3.04	1.09
371	Guscio fond.	421	435	436	422	5	40.0	3.04	1.09
372	Guscio fond.	422	436	437	423	5	40.0	3.04	1.09
373	Guscio fond.	423	437	438	424	5	40.0	3.04	1.09
374	Guscio fond.	424	438	439	425	5	40.0	3.04	1.09
375	Guscio fond.	425	439	440	426	5	40.0	3.04	1.09
376	Guscio fond.	426	440	441	427	5	40.0	3.04	1.09
377	Guscio fond.	427	441	442	428	5	40.0	3.04	1.09
378	Guscio fond.	429	443	444	430	5	40.0	3.04	1.09
379	Guscio fond.	430	444	445	431	5	40.0	3.04	1.09
380	Guscio fond.	431	445	446	432	5	40.0	3.04	1.09
381	Guscio fond.	432	446	447	433	5	40.0	3.04	1.09
382	Guscio fond.	433	447	448	434	5	40.0	3.04	1.09
383	Guscio fond.	434	448	449	435	5	40.0	3.04	1.09
384	Guscio fond.	435	449	450	436	5	40.0	3.04	1.09
385	Guscio fond.	436	450	451	437	5	40.0	3.04	1.09
386	Guscio fond.	437	451	452	438	5	40.0	3.04	1.09
387	Guscio fond.	438	452	453	439	5	40.0	3.04	1.09
388	Guscio fond.	439	453	454	440	5	40.0	3.04	1.09
389	Guscio fond.	440	454	455	441	5	40.0	3.04	1.09
390	Guscio fond.	441	455	456	442	5	40.0	3.04	1.09
391	Guscio fond.	443	457	458	444	5	40.0	3.04	1.09
392	Guscio fond.	444	458	459	445	5	40.0	3.04	1.09
393	Guscio fond.	445	459	460	446	5	40.0	3.04	1.09

394	Guscio fond.	446	460	461	447	5	40.0	3.04	1.09
395	Guscio fond.	447	461	462	448	5	40.0	3.04	1.09
396	Guscio fond.	448	462	463	449	5	40.0	3.04	1.09
397	Guscio fond.	449	463	464	450	5	40.0	3.04	1.09
398	Guscio fond.	450	464	465	451	5	40.0	3.04	1.09
399	Guscio fond.	451	465	466	452	5	40.0	3.04	1.09
400	Guscio fond.	452	466	467	453	5	40.0	3.04	1.09
401	Guscio fond.	453	467	468	454	5	40.0	3.04	1.09
402	Guscio fond.	454	468	469	455	5	40.0	3.04	1.09
403	Guscio fond.	455	469	470	456	5	40.0	3.04	1.09
404	Guscio fond.	457	471	472	458	5	40.0	3.04	1.09
405	Guscio fond.	458	472	473	459	5	40.0	3.04	1.09
406	Guscio fond.	459	473	474	460	5	40.0	3.04	1.09
407	Guscio fond.	460	474	475	461	5	40.0	3.04	1.09
408	Guscio fond.	461	475	476	462	5	40.0	3.04	1.09
409	Guscio fond.	462	476	477	463	5	40.0	3.04	1.09
410	Guscio fond.	463	477	478	464	5	40.0	3.04	1.09
411	Guscio fond.	464	478	479	465	5	40.0	3.04	1.09
412	Guscio fond.	465	479	480	466	5	40.0	3.04	1.09
413	Guscio fond.	466	480	481	467	5	40.0	3.04	1.09
414	Guscio fond.	467	481	482	468	5	40.0	3.04	1.09
415	Guscio fond.	468	482	483	469	5	40.0	3.04	1.09
416	Guscio fond.	469	483	484	470	5	40.0	3.04	1.09
417	Guscio fond.	471	485	486	472	5	40.0	3.04	1.09
418	Guscio fond.	472	486	487	473	5	40.0	3.04	1.09
419	Guscio fond.	473	487	488	474	5	40.0	3.04	1.09
420	Guscio fond.	474	488	489	475	5	40.0	3.04	1.09
421	Guscio fond.	475	489	490	476	5	40.0	3.04	1.09
422	Guscio fond.	476	490	491	477	5	40.0	3.04	1.09
423	Guscio fond.	477	491	492	478	5	40.0	3.04	1.09
424	Guscio fond.	478	492	493	479	5	40.0	3.04	1.09
425	Guscio fond.	479	493	494	480	5	40.0	3.04	1.09
426	Guscio fond.	480	494	495	481	5	40.0	3.04	1.09
427	Guscio fond.	481	495	496	482	5	40.0	3.04	1.09
428	Guscio fond.	482	496	497	483	5	40.0	3.04	1.09
429	Guscio fond.	483	497	498	484	5	40.0	3.04	1.09
430	Guscio fond.	485	499	500	486	5	40.0	3.04	1.09
431	Guscio fond.	486	500	501	487	5	40.0	3.04	1.09
432	Guscio fond.	487	501	502	488	5	40.0	3.04	1.09
433	Guscio fond.	488	502	503	489	5	40.0	3.04	1.09
434	Guscio fond.	489	503	504	490	5	40.0	3.04	1.09
435	Guscio fond.	490	504	505	491	5	40.0	3.04	1.09
436	Guscio fond.	491	505	506	492	5	40.0	3.04	1.09
437	Guscio fond.	492	506	507	493	5	40.0	3.04	1.09
438	Guscio fond.	493	507	508	494	5	40.0	3.04	1.09
439	Guscio fond.	494	508	509	495	5	40.0	3.04	1.09
440	Guscio fond.	495	509	510	496	5	40.0	3.04	1.09
441	Guscio fond.	496	510	511	497	5	40.0	3.04	1.09
442	Guscio fond.	497	511	512	498	5	40.0	3.04	1.09
443	Guscio fond.	499	23	514	500	5	40.0	3.04	1.09
444	Guscio fond.	500	514	515	501	5	40.0	3.04	1.09
445	Guscio fond.	501	515	516	502	5	40.0	3.04	1.09
446	Guscio fond.	502	516	517	503	5	40.0	3.04	1.09
447	Guscio fond.	503	517	518	504	5	40.0	3.04	1.09
448	Guscio fond.	504	518	519	505	5	40.0	3.04	1.09
449	Guscio fond.	505	519	520	506	5	40.0	3.04	1.09
450	Guscio fond.	506	520	521	507	5	40.0	3.04	1.09
451	Guscio fond.	507	521	522	508	5	40.0	3.04	1.09
452	Guscio fond.	508	522	523	509	5	40.0	3.04	1.09
453	Guscio fond.	509	523	524	510	5	40.0	3.04	1.09
454	Guscio fond.	510	524	525	511	5	40.0	3.04	1.09
455	Guscio fond.	511	525	13	512	5	40.0	3.04	1.09
456	Guscio fond.	899	528	529	900	5	40.0	3.04	1.09
457	Guscio fond.	900	529	530	901	5	40.0	3.04	1.09
458	Guscio fond.	901	530	531	902	5	40.0	3.04	1.09
459	Guscio fond.	902	531	532	903	5	40.0	3.04	1.09
460	Guscio fond.	903	532	533	904	5	40.0	3.04	1.09
461	Guscio fond.	904	533	534	905	5	40.0	3.04	1.09
462	Guscio fond.	905	534	535	906	5	40.0	3.04	1.09
463	Guscio fond.	906	535	536	907	5	40.0	3.04	1.09
464	Guscio fond.	907	536	537	908	5	40.0	3.04	1.09
465	Guscio fond.	908	537	538	24	5	40.0	3.04	1.09
466	Guscio fond.	24	538	179	513	5	40.0	3.04	1.09
467	Guscio fond.	513	179	693	526	5	40.0	3.04	1.09
468	Guscio fond.	526	693	706	527	5	40.0	3.04	1.09
469	Guscio fond.	23	539	540	514	5	40.0	3.04	1.09

470	Guscio fond.	514	540	541	515	5	40.0	3.04	1.09
471	Guscio fond.	515	541	542	516	5	40.0	3.04	1.09
472	Guscio fond.	516	542	543	517	5	40.0	3.04	1.09
473	Guscio fond.	517	543	544	518	5	40.0	3.04	1.09
474	Guscio fond.	518	544	545	519	5	40.0	3.04	1.09
475	Guscio fond.	519	545	546	520	5	40.0	3.04	1.09
476	Guscio fond.	520	546	547	521	5	40.0	3.04	1.09
477	Guscio fond.	521	547	548	522	5	40.0	3.04	1.09
478	Guscio fond.	522	548	549	523	5	40.0	3.04	1.09
479	Guscio fond.	523	549	550	524	5	40.0	3.04	1.09
480	Guscio fond.	524	550	551	525	5	40.0	3.04	1.09
481	Guscio fond.	525	551	552	13	5	40.0	3.04	1.09
482	Guscio fond.	539	553	554	540	5	40.0	3.04	1.09
483	Guscio fond.	540	554	555	541	5	40.0	3.04	1.09
484	Guscio fond.	541	555	556	542	5	40.0	3.04	1.09
485	Guscio fond.	542	556	557	543	5	40.0	3.04	1.09
486	Guscio fond.	543	557	558	544	5	40.0	3.04	1.09
487	Guscio fond.	544	558	559	545	5	40.0	3.04	1.09
488	Guscio fond.	545	559	560	546	5	40.0	3.04	1.09
489	Guscio fond.	546	560	561	547	5	40.0	3.04	1.09
490	Guscio fond.	547	561	562	548	5	40.0	3.04	1.09
491	Guscio fond.	548	562	563	549	5	40.0	3.04	1.09
492	Guscio fond.	549	563	564	550	5	40.0	3.04	1.09
493	Guscio fond.	550	564	565	551	5	40.0	3.04	1.09
494	Guscio fond.	551	565	566	552	5	40.0	3.04	1.09
495	Guscio fond.	553	567	568	554	5	40.0	3.04	1.09
496	Guscio fond.	554	568	569	555	5	40.0	3.04	1.09
497	Guscio fond.	555	569	570	556	5	40.0	3.04	1.09
498	Guscio fond.	556	570	571	557	5	40.0	3.04	1.09
499	Guscio fond.	557	571	572	558	5	40.0	3.04	1.09
500	Guscio fond.	558	572	573	559	5	40.0	3.04	1.09
501	Guscio fond.	559	573	574	560	5	40.0	3.04	1.09
502	Guscio fond.	560	574	575	561	5	40.0	3.04	1.09
503	Guscio fond.	561	575	576	562	5	40.0	3.04	1.09
504	Guscio fond.	562	576	577	563	5	40.0	3.04	1.09
505	Guscio fond.	563	577	578	564	5	40.0	3.04	1.09
506	Guscio fond.	564	578	579	565	5	40.0	3.04	1.09
507	Guscio fond.	565	579	580	566	5	40.0	3.04	1.09
508	Guscio fond.	567	581	582	568	5	40.0	3.04	1.09
509	Guscio fond.	568	582	583	569	5	40.0	3.04	1.09
510	Guscio fond.	569	583	584	570	5	40.0	3.04	1.09
511	Guscio fond.	570	584	585	571	5	40.0	3.04	1.09
512	Guscio fond.	571	585	586	572	5	40.0	3.04	1.09
513	Guscio fond.	572	586	587	573	5	40.0	3.04	1.09
514	Guscio fond.	573	587	588	574	5	40.0	3.04	1.09
515	Guscio fond.	574	588	589	575	5	40.0	3.04	1.09
516	Guscio fond.	575	589	590	576	5	40.0	3.04	1.09
517	Guscio fond.	576	590	591	577	5	40.0	3.04	1.09
518	Guscio fond.	577	591	592	578	5	40.0	3.04	1.09
519	Guscio fond.	578	592	593	579	5	40.0	3.04	1.09
520	Guscio fond.	579	593	594	580	5	40.0	3.04	1.09
521	Guscio fond.	581	595	596	582	5	40.0	3.04	1.09
522	Guscio fond.	582	596	597	583	5	40.0	3.04	1.09
523	Guscio fond.	583	597	598	584	5	40.0	3.04	1.09
524	Guscio fond.	584	598	599	585	5	40.0	3.04	1.09
525	Guscio fond.	585	599	600	586	5	40.0	3.04	1.09
526	Guscio fond.	586	600	601	587	5	40.0	3.04	1.09
527	Guscio fond.	587	601	602	588	5	40.0	3.04	1.09
528	Guscio fond.	588	602	603	589	5	40.0	3.04	1.09
529	Guscio fond.	589	603	604	590	5	40.0	3.04	1.09
530	Guscio fond.	590	604	605	591	5	40.0	3.04	1.09
531	Guscio fond.	591	605	606	592	5	40.0	3.04	1.09
532	Guscio fond.	592	606	607	593	5	40.0	3.04	1.09
533	Guscio fond.	593	607	608	594	5	40.0	3.04	1.09
534	Guscio fond.	595	609	610	596	5	40.0	3.04	1.09
535	Guscio fond.	596	610	611	597	5	40.0	3.04	1.09
536	Guscio fond.	597	611	612	598	5	40.0	3.04	1.09
537	Guscio fond.	598	612	613	599	5	40.0	3.04	1.09
538	Guscio fond.	599	613	614	600	5	40.0	3.04	1.09
539	Guscio fond.	600	614	615	601	5	40.0	3.04	1.09
540	Guscio fond.	601	615	616	602	5	40.0	3.04	1.09
541	Guscio fond.	602	616	617	603	5	40.0	3.04	1.09
542	Guscio fond.	603	617	618	604	5	40.0	3.04	1.09
543	Guscio fond.	604	618	619	605	5	40.0	3.04	1.09
544	Guscio fond.	605	619	620	606	5	40.0	3.04	1.09
545	Guscio fond.	606	620	621	607	5	40.0	3.04	1.09

546	Guscio fond.	607	621	622	608	5	40.0	3.04	1.09
547	Guscio fond.	609	623	624	610	5	40.0	3.04	1.09
548	Guscio fond.	610	624	625	611	5	40.0	3.04	1.09
549	Guscio fond.	611	625	626	612	5	40.0	3.04	1.09
550	Guscio fond.	612	626	627	613	5	40.0	3.04	1.09
551	Guscio fond.	613	627	628	614	5	40.0	3.04	1.09
552	Guscio fond.	614	628	629	615	5	40.0	3.04	1.09
553	Guscio fond.	615	629	630	616	5	40.0	3.04	1.09
554	Guscio fond.	616	630	631	617	5	40.0	3.04	1.09
555	Guscio fond.	617	631	632	618	5	40.0	3.04	1.09
556	Guscio fond.	618	632	633	619	5	40.0	3.04	1.09
557	Guscio fond.	619	633	634	620	5	40.0	3.04	1.09
558	Guscio fond.	620	634	635	621	5	40.0	3.04	1.09
559	Guscio fond.	621	635	636	622	5	40.0	3.04	1.09
560	Guscio fond.	623	637	638	624	5	40.0	3.04	1.09
561	Guscio fond.	624	638	639	625	5	40.0	3.04	1.09
562	Guscio fond.	625	639	640	626	5	40.0	3.04	1.09
563	Guscio fond.	626	640	641	627	5	40.0	3.04	1.09
564	Guscio fond.	627	641	642	628	5	40.0	3.04	1.09
565	Guscio fond.	628	642	643	629	5	40.0	3.04	1.09
566	Guscio fond.	629	643	644	630	5	40.0	3.04	1.09
567	Guscio fond.	630	644	645	631	5	40.0	3.04	1.09
568	Guscio fond.	631	645	646	632	5	40.0	3.04	1.09
569	Guscio fond.	632	646	647	633	5	40.0	3.04	1.09
570	Guscio fond.	633	647	648	634	5	40.0	3.04	1.09
571	Guscio fond.	634	648	649	635	5	40.0	3.04	1.09
572	Guscio fond.	635	649	650	636	5	40.0	3.04	1.09
573	Guscio fond.	637	651	652	638	5	40.0	3.04	1.09
574	Guscio fond.	638	652	653	639	5	40.0	3.04	1.09
575	Guscio fond.	639	653	654	640	5	40.0	3.04	1.09
576	Guscio fond.	640	654	655	641	5	40.0	3.04	1.09
577	Guscio fond.	641	655	656	642	5	40.0	3.04	1.09
578	Guscio fond.	642	656	657	643	5	40.0	3.04	1.09
579	Guscio fond.	643	657	658	644	5	40.0	3.04	1.09
580	Guscio fond.	644	658	659	645	5	40.0	3.04	1.09
581	Guscio fond.	645	659	660	646	5	40.0	3.04	1.09
582	Guscio fond.	646	660	661	647	5	40.0	3.04	1.09
583	Guscio fond.	647	661	662	648	5	40.0	3.04	1.09
584	Guscio fond.	648	662	663	649	5	40.0	3.04	1.09
585	Guscio fond.	649	663	664	650	5	40.0	3.04	1.09
586	Guscio fond.	651	665	666	652	5	40.0	3.04	1.09
587	Guscio fond.	652	666	667	653	5	40.0	3.04	1.09
588	Guscio fond.	653	667	668	654	5	40.0	3.04	1.09
589	Guscio fond.	654	668	669	655	5	40.0	3.04	1.09
590	Guscio fond.	655	669	670	656	5	40.0	3.04	1.09
591	Guscio fond.	656	670	671	657	5	40.0	3.04	1.09
592	Guscio fond.	657	671	672	658	5	40.0	3.04	1.09
593	Guscio fond.	658	672	673	659	5	40.0	3.04	1.09
594	Guscio fond.	659	673	674	660	5	40.0	3.04	1.09
595	Guscio fond.	660	674	675	661	5	40.0	3.04	1.09
596	Guscio fond.	661	675	676	662	5	40.0	3.04	1.09
597	Guscio fond.	662	676	677	663	5	40.0	3.04	1.09
598	Guscio fond.	663	677	678	664	5	40.0	3.04	1.09
599	Guscio fond.	665	679	680	666	5	40.0	3.04	1.09
600	Guscio fond.	666	680	681	667	5	40.0	3.04	1.09
601	Guscio fond.	667	681	682	668	5	40.0	3.04	1.09
602	Guscio fond.	668	682	683	669	5	40.0	3.04	1.09
603	Guscio fond.	669	683	684	670	5	40.0	3.04	1.09
604	Guscio fond.	670	684	685	671	5	40.0	3.04	1.09
605	Guscio fond.	671	685	686	672	5	40.0	3.04	1.09
606	Guscio fond.	672	686	687	673	5	40.0	3.04	1.09
607	Guscio fond.	673	687	688	674	5	40.0	3.04	1.09
608	Guscio fond.	674	688	689	675	5	40.0	3.04	1.09
609	Guscio fond.	675	689	690	676	5	40.0	3.04	1.09
610	Guscio fond.	676	690	691	677	5	40.0	3.04	1.09
611	Guscio fond.	677	691	692	678	5	40.0	3.04	1.09
612	Guscio fond.	679	12	694	680	5	40.0	3.04	1.09
613	Guscio fond.	680	694	695	681	5	40.0	3.04	1.09
614	Guscio fond.	681	695	696	682	5	40.0	3.04	1.09
615	Guscio fond.	682	696	697	683	5	40.0	3.04	1.09
616	Guscio fond.	683	697	698	684	5	40.0	3.04	1.09
617	Guscio fond.	684	698	699	685	5	40.0	3.04	1.09
618	Guscio fond.	685	699	700	686	5	40.0	3.04	1.09
619	Guscio fond.	686	700	701	687	5	40.0	3.04	1.09
620	Guscio fond.	687	701	702	688	5	40.0	3.04	1.09
621	Guscio fond.	688	702	703	689	5	40.0	3.04	1.09

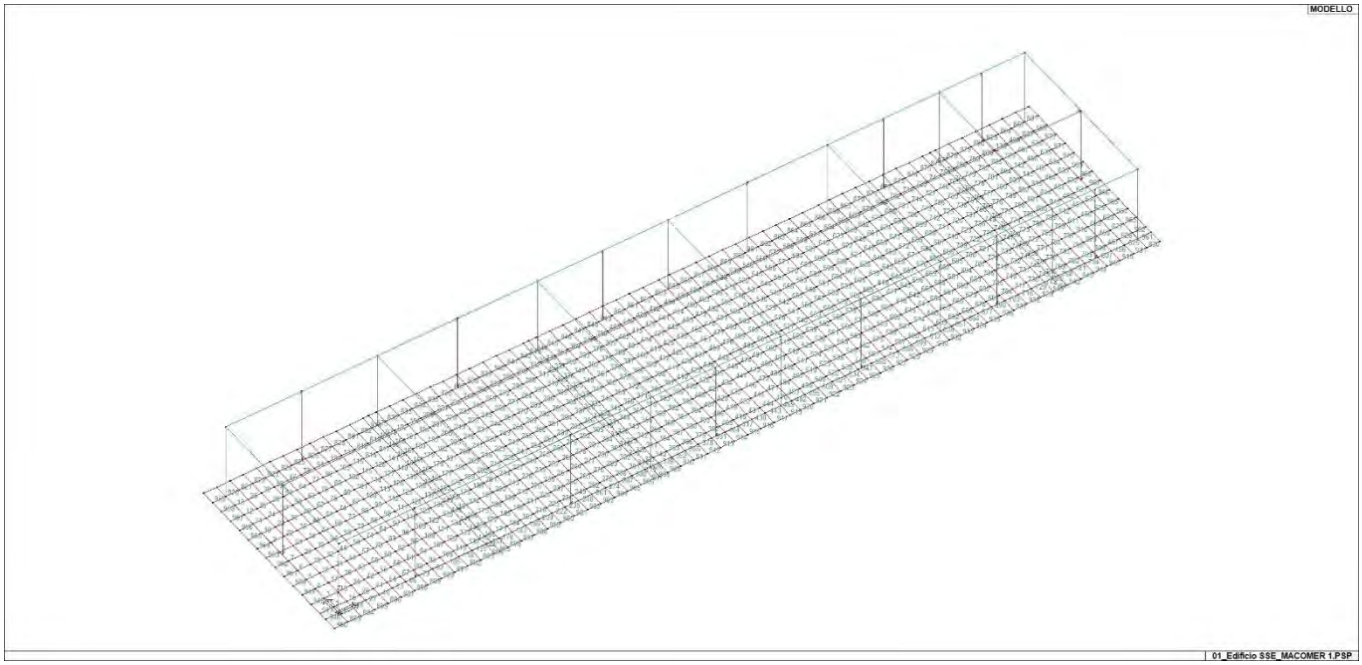
622	Guscio fond.	689	703	704	690	5	40.0	3.04	1.09
623	Guscio fond.	690	704	705	691	5	40.0	3.04	1.09
624	Guscio fond.	691	705	15	692	5	40.0	3.04	1.09
625	Guscio fond.	528	25	707	529	5	40.0	3.04	1.09
626	Guscio fond.	529	707	708	530	5	40.0	3.04	1.09
627	Guscio fond.	530	708	709	531	5	40.0	3.04	1.09
628	Guscio fond.	531	709	710	532	5	40.0	3.04	1.09
629	Guscio fond.	532	710	711	533	5	40.0	3.04	1.09
630	Guscio fond.	533	711	712	534	5	40.0	3.04	1.09
631	Guscio fond.	534	712	713	535	5	40.0	3.04	1.09
632	Guscio fond.	535	713	714	536	5	40.0	3.04	1.09
633	Guscio fond.	536	714	715	537	5	40.0	3.04	1.09
634	Guscio fond.	537	715	716	538	5	40.0	3.04	1.09
635	Guscio fond.	538	716	717	179	5	40.0	3.04	1.09
636	Guscio fond.	179	717	718	693	5	40.0	3.04	1.09
637	Guscio fond.	693	718	27	706	5	40.0	3.04	1.09
638	Guscio fond.	12	719	720	694	5	40.0	3.04	1.09
639	Guscio fond.	694	720	721	695	5	40.0	3.04	1.09
640	Guscio fond.	695	721	722	696	5	40.0	3.04	1.09
641	Guscio fond.	696	722	723	697	5	40.0	3.04	1.09
642	Guscio fond.	697	723	724	698	5	40.0	3.04	1.09
643	Guscio fond.	698	724	725	699	5	40.0	3.04	1.09
644	Guscio fond.	699	725	726	700	5	40.0	3.04	1.09
645	Guscio fond.	700	726	727	701	5	40.0	3.04	1.09
646	Guscio fond.	701	727	728	702	5	40.0	3.04	1.09
647	Guscio fond.	702	728	729	703	5	40.0	3.04	1.09
648	Guscio fond.	703	729	730	704	5	40.0	3.04	1.09
649	Guscio fond.	704	730	731	705	5	40.0	3.04	1.09
650	Guscio fond.	705	731	732	15	5	40.0	3.04	1.09
651	Guscio fond.	719	733	734	720	5	40.0	3.04	1.09
652	Guscio fond.	720	734	735	721	5	40.0	3.04	1.09
653	Guscio fond.	721	735	736	722	5	40.0	3.04	1.09
654	Guscio fond.	722	736	737	723	5	40.0	3.04	1.09
655	Guscio fond.	723	737	738	724	5	40.0	3.04	1.09
656	Guscio fond.	724	738	739	725	5	40.0	3.04	1.09
657	Guscio fond.	725	739	740	726	5	40.0	3.04	1.09
658	Guscio fond.	726	740	741	727	5	40.0	3.04	1.09
659	Guscio fond.	727	741	742	728	5	40.0	3.04	1.09
660	Guscio fond.	728	742	743	729	5	40.0	3.04	1.09
661	Guscio fond.	729	743	744	730	5	40.0	3.04	1.09
662	Guscio fond.	730	744	745	731	5	40.0	3.04	1.09
663	Guscio fond.	731	745	746	732	5	40.0	3.04	1.09
664	Guscio fond.	733	747	748	734	5	40.0	3.04	1.09
665	Guscio fond.	734	748	749	735	5	40.0	3.04	1.09
666	Guscio fond.	735	749	750	736	5	40.0	3.04	1.09
667	Guscio fond.	736	750	751	737	5	40.0	3.04	1.09
668	Guscio fond.	737	751	752	738	5	40.0	3.04	1.09
669	Guscio fond.	738	752	753	739	5	40.0	3.04	1.09
670	Guscio fond.	739	753	754	740	5	40.0	3.04	1.09
671	Guscio fond.	740	754	755	741	5	40.0	3.04	1.09
672	Guscio fond.	741	755	756	742	5	40.0	3.04	1.09
673	Guscio fond.	742	756	757	743	5	40.0	3.04	1.09
674	Guscio fond.	743	757	758	744	5	40.0	3.04	1.09
675	Guscio fond.	744	758	759	745	5	40.0	3.04	1.09
676	Guscio fond.	745	759	760	746	5	40.0	3.04	1.09
677	Guscio fond.	747	761	762	748	5	40.0	3.04	1.09
678	Guscio fond.	748	762	763	749	5	40.0	3.04	1.09
679	Guscio fond.	749	763	764	750	5	40.0	3.04	1.09
680	Guscio fond.	750	764	765	751	5	40.0	3.04	1.09
681	Guscio fond.	751	765	766	752	5	40.0	3.04	1.09
682	Guscio fond.	752	766	767	753	5	40.0	3.04	1.09
683	Guscio fond.	753	767	768	754	5	40.0	3.04	1.09
684	Guscio fond.	754	768	769	755	5	40.0	3.04	1.09
685	Guscio fond.	755	769	770	756	5	40.0	3.04	1.09
686	Guscio fond.	756	770	771	757	5	40.0	3.04	1.09
687	Guscio fond.	757	771	772	758	5	40.0	3.04	1.09
688	Guscio fond.	758	772	773	759	5	40.0	3.04	1.09
689	Guscio fond.	759	773	774	760	5	40.0	3.04	1.09
690	Guscio fond.	761	775	776	762	5	40.0	3.04	1.09
691	Guscio fond.	762	776	777	763	5	40.0	3.04	1.09
692	Guscio fond.	763	777	778	764	5	40.0	3.04	1.09
693	Guscio fond.	764	778	779	765	5	40.0	3.04	1.09
694	Guscio fond.	765	779	780	766	5	40.0	3.04	1.09
695	Guscio fond.	766	780	781	767	5	40.0	3.04	1.09
696	Guscio fond.	767	781	782	768	5	40.0	3.04	1.09
697	Guscio fond.	768	782	783	769	5	40.0	3.04	1.09

698	Guscio fond.	769	783	784	770	5	40.0	3.04	1.09
699	Guscio fond.	770	784	785	771	5	40.0	3.04	1.09
700	Guscio fond.	771	785	786	772	5	40.0	3.04	1.09
701	Guscio fond.	772	786	787	773	5	40.0	3.04	1.09
702	Guscio fond.	773	787	788	774	5	40.0	3.04	1.09
703	Guscio fond.	775	789	790	776	5	40.0	3.04	1.09
704	Guscio fond.	776	790	791	777	5	40.0	3.04	1.09
705	Guscio fond.	777	791	792	778	5	40.0	3.04	1.09
706	Guscio fond.	778	792	793	779	5	40.0	3.04	1.09
707	Guscio fond.	779	793	794	780	5	40.0	3.04	1.09
708	Guscio fond.	780	794	795	781	5	40.0	3.04	1.09
709	Guscio fond.	781	795	796	782	5	40.0	3.04	1.09
710	Guscio fond.	782	796	797	783	5	40.0	3.04	1.09
711	Guscio fond.	783	797	798	784	5	40.0	3.04	1.09
712	Guscio fond.	784	798	799	785	5	40.0	3.04	1.09
713	Guscio fond.	785	799	800	786	5	40.0	3.04	1.09
714	Guscio fond.	786	800	801	787	5	40.0	3.04	1.09
715	Guscio fond.	787	801	802	788	5	40.0	3.04	1.09
716	Guscio fond.	789	803	804	790	5	40.0	3.04	1.09
717	Guscio fond.	790	804	805	791	5	40.0	3.04	1.09
718	Guscio fond.	791	805	806	792	5	40.0	3.04	1.09
719	Guscio fond.	792	806	807	793	5	40.0	3.04	1.09
720	Guscio fond.	793	807	808	794	5	40.0	3.04	1.09
721	Guscio fond.	794	808	809	795	5	40.0	3.04	1.09
722	Guscio fond.	795	809	810	796	5	40.0	3.04	1.09
723	Guscio fond.	796	810	811	797	5	40.0	3.04	1.09
724	Guscio fond.	797	811	812	798	5	40.0	3.04	1.09
725	Guscio fond.	798	812	813	799	5	40.0	3.04	1.09
726	Guscio fond.	799	813	814	800	5	40.0	3.04	1.09
727	Guscio fond.	800	814	815	801	5	40.0	3.04	1.09
728	Guscio fond.	801	815	816	802	5	40.0	3.04	1.09
729	Guscio fond.	803	817	818	804	5	40.0	3.04	1.09
730	Guscio fond.	804	818	819	805	5	40.0	3.04	1.09
731	Guscio fond.	805	819	820	806	5	40.0	3.04	1.09
732	Guscio fond.	806	820	821	807	5	40.0	3.04	1.09
733	Guscio fond.	807	821	822	808	5	40.0	3.04	1.09
734	Guscio fond.	808	822	823	809	5	40.0	3.04	1.09
735	Guscio fond.	809	823	824	810	5	40.0	3.04	1.09
736	Guscio fond.	810	824	825	811	5	40.0	3.04	1.09
737	Guscio fond.	811	825	826	812	5	40.0	3.04	1.09
738	Guscio fond.	812	826	827	813	5	40.0	3.04	1.09
739	Guscio fond.	813	827	828	814	5	40.0	3.04	1.09
740	Guscio fond.	814	828	829	815	5	40.0	3.04	1.09
741	Guscio fond.	815	829	830	816	5	40.0	3.04	1.09
742	Guscio fond.	817	9	831	818	5	40.0	3.04	1.09
743	Guscio fond.	818	831	832	819	5	40.0	3.04	1.09
744	Guscio fond.	819	832	833	820	5	40.0	3.04	1.09
745	Guscio fond.	820	833	834	821	5	40.0	3.04	1.09
746	Guscio fond.	821	834	835	822	5	40.0	3.04	1.09
747	Guscio fond.	822	835	836	823	5	40.0	3.04	1.09
748	Guscio fond.	823	836	837	824	5	40.0	3.04	1.09
749	Guscio fond.	824	837	838	825	5	40.0	3.04	1.09
750	Guscio fond.	825	838	839	826	5	40.0	3.04	1.09
751	Guscio fond.	826	839	840	827	5	40.0	3.04	1.09
752	Guscio fond.	827	840	841	828	5	40.0	3.04	1.09
753	Guscio fond.	828	841	842	829	5	40.0	3.04	1.09
754	Guscio fond.	829	842	17	830	5	40.0	3.04	1.09
755	Guscio fond.	9	843	844	831	5	40.0	3.04	1.09
756	Guscio fond.	831	844	845	832	5	40.0	3.04	1.09
757	Guscio fond.	832	845	846	833	5	40.0	3.04	1.09
758	Guscio fond.	833	846	847	834	5	40.0	3.04	1.09
759	Guscio fond.	834	847	848	835	5	40.0	3.04	1.09
760	Guscio fond.	835	848	849	836	5	40.0	3.04	1.09
761	Guscio fond.	836	849	850	837	5	40.0	3.04	1.09
762	Guscio fond.	837	850	851	838	5	40.0	3.04	1.09
763	Guscio fond.	838	851	852	839	5	40.0	3.04	1.09
764	Guscio fond.	839	852	853	840	5	40.0	3.04	1.09
765	Guscio fond.	840	853	854	841	5	40.0	3.04	1.09
766	Guscio fond.	841	854	855	842	5	40.0	3.04	1.09
767	Guscio fond.	842	855	856	17	5	40.0	3.04	1.09
768	Guscio fond.	843	857	858	844	5	40.0	3.04	1.09
769	Guscio fond.	844	858	859	845	5	40.0	3.04	1.09
770	Guscio fond.	845	859	860	846	5	40.0	3.04	1.09
771	Guscio fond.	846	860	861	847	5	40.0	3.04	1.09
772	Guscio fond.	847	861	862	848	5	40.0	3.04	1.09
773	Guscio fond.	848	862	863	849	5	40.0	3.04	1.09

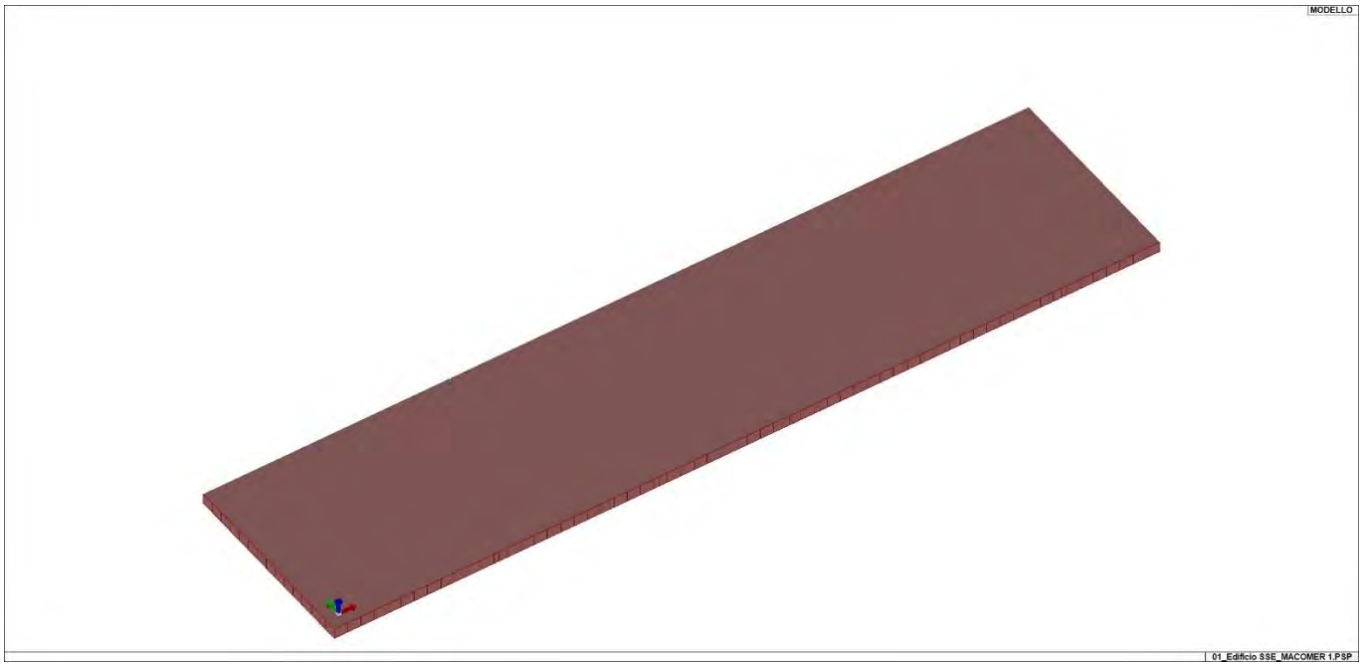
774	Guscio fond.	849	863	864	850	5	40.0	3.04	1.09
775	Guscio fond.	850	864	865	851	5	40.0	3.04	1.09
776	Guscio fond.	851	865	866	852	5	40.0	3.04	1.09
777	Guscio fond.	852	866	867	853	5	40.0	3.04	1.09
778	Guscio fond.	853	867	868	854	5	40.0	3.04	1.09
779	Guscio fond.	854	868	869	855	5	40.0	3.04	1.09
780	Guscio fond.	855	869	870	856	5	40.0	3.04	1.09
781	Guscio fond.	857	871	872	858	5	40.0	3.04	1.09
782	Guscio fond.	858	872	873	859	5	40.0	3.04	1.09
783	Guscio fond.	859	873	874	860	5	40.0	3.04	1.09
784	Guscio fond.	860	874	875	861	5	40.0	3.04	1.09
785	Guscio fond.	861	875	876	862	5	40.0	3.04	1.09
786	Guscio fond.	862	876	877	863	5	40.0	3.04	1.09
787	Guscio fond.	863	877	878	864	5	40.0	3.04	1.09
788	Guscio fond.	864	878	879	865	5	40.0	3.04	1.09
789	Guscio fond.	865	879	880	866	5	40.0	3.04	1.09
790	Guscio fond.	866	880	881	867	5	40.0	3.04	1.09
791	Guscio fond.	867	881	882	868	5	40.0	3.04	1.09
792	Guscio fond.	868	882	883	869	5	40.0	3.04	1.09
793	Guscio fond.	869	883	884	870	5	40.0	3.04	1.09
794	Guscio fond.	871	885	886	872	5	40.0	3.04	1.09
795	Guscio fond.	872	886	887	873	5	40.0	3.04	1.09
796	Guscio fond.	873	887	888	874	5	40.0	3.04	1.09
797	Guscio fond.	874	888	889	875	5	40.0	3.04	1.09
798	Guscio fond.	875	889	890	876	5	40.0	3.04	1.09
799	Guscio fond.	876	890	891	877	5	40.0	3.04	1.09
800	Guscio fond.	877	891	892	878	5	40.0	3.04	1.09
801	Guscio fond.	878	892	893	879	5	40.0	3.04	1.09
802	Guscio fond.	879	893	894	880	5	40.0	3.04	1.09
803	Guscio fond.	880	894	895	881	5	40.0	3.04	1.09
804	Guscio fond.	881	895	896	882	5	40.0	3.04	1.09
805	Guscio fond.	882	896	897	883	5	40.0	3.04	1.09
806	Guscio fond.	883	897	898	884	5	40.0	3.04	1.09
807	Guscio fond.	885	899	900	886	5	40.0	3.04	1.09
808	Guscio fond.	886	900	901	887	5	40.0	3.04	1.09
809	Guscio fond.	887	901	902	888	5	40.0	3.04	1.09
810	Guscio fond.	888	902	903	889	5	40.0	3.04	1.09
811	Guscio fond.	889	903	904	890	5	40.0	3.04	1.09
812	Guscio fond.	890	904	905	891	5	40.0	3.04	1.09
813	Guscio fond.	891	905	906	892	5	40.0	3.04	1.09
814	Guscio fond.	892	906	907	893	5	40.0	3.04	1.09
815	Guscio fond.	893	907	908	894	5	40.0	3.04	1.09
816	Guscio fond.	164	178	909	165	5	40.0	3.04	1.09
817	Guscio fond.	178	191	192	909	5	40.0	3.04	1.09
818	Guscio fond.	165	909	910	166	5	40.0	3.04	1.09
819	Guscio fond.	909	192	193	910	5	40.0	3.04	1.09
820	Guscio fond.	3	54	917	911	5	40.0	3.04	1.09
821	Guscio fond.	54	68	918	917	5	40.0	3.04	1.09
822	Guscio fond.	68	82	919	918	5	40.0	3.04	1.09
823	Guscio fond.	82	96	920	919	5	40.0	3.04	1.09
824	Guscio fond.	96	110	921	920	5	40.0	3.04	1.09
825	Guscio fond.	110	124	922	921	5	40.0	3.04	1.09
826	Guscio fond.	124	138	923	922	5	40.0	3.04	1.09
827	Guscio fond.	138	152	924	923	5	40.0	3.04	1.09
828	Guscio fond.	152	166	925	924	5	40.0	3.04	1.09
829	Guscio fond.	898	527	949	973	5	40.0	3.04	1.09
830	Guscio fond.	981	927	1055	25	5	40.0	3.04	1.09
831	Guscio fond.	27	1056	1069	916	5	40.0	3.04	1.09
832	Guscio fond.	220	234	929	928	5	40.0	3.04	1.09
833	Guscio fond.	234	248	930	929	5	40.0	3.04	1.09
834	Guscio fond.	248	262	931	930	5	40.0	3.04	1.09
835	Guscio fond.	262	276	932	931	5	40.0	3.04	1.09
836	Guscio fond.	276	290	933	932	5	40.0	3.04	1.09
837	Guscio fond.	290	304	934	933	5	40.0	3.04	1.09
838	Guscio fond.	304	318	935	934	5	40.0	3.04	1.09
839	Guscio fond.	318	332	936	935	5	40.0	3.04	1.09
840	Guscio fond.	332	346	937	936	5	40.0	3.04	1.09
841	Guscio fond.	346	360	938	937	5	40.0	3.04	1.09
842	Guscio fond.	360	374	939	938	5	40.0	3.04	1.09
843	Guscio fond.	374	11	912	939	5	40.0	3.04	1.09
844	Guscio fond.	11	400	940	912	5	40.0	3.04	1.09
845	Guscio fond.	400	414	941	940	5	40.0	3.04	1.09
846	Guscio fond.	414	428	942	941	5	40.0	3.04	1.09
847	Guscio fond.	428	442	943	942	5	40.0	3.04	1.09
848	Guscio fond.	442	456	944	943	5	40.0	3.04	1.09
849	Guscio fond.	456	470	945	944	5	40.0	3.04	1.09

850 Guscio fond.	470	484	946	945	5	40.0	3.04	1.09
851 Guscio fond.	484	498	947	946	5	40.0	3.04	1.09
852 Guscio fond.	498	512	948	947	5	40.0	3.04	1.09
853 Guscio fond.	512	13	913	948	5	40.0	3.04	1.09
854 Guscio fond.	527	706	961	949	5	40.0	3.04	1.09
855 Guscio fond.	13	552	950	913	5	40.0	3.04	1.09
856 Guscio fond.	552	566	951	950	5	40.0	3.04	1.09
857 Guscio fond.	566	580	952	951	5	40.0	3.04	1.09
858 Guscio fond.	580	594	953	952	5	40.0	3.04	1.09
859 Guscio fond.	594	608	954	953	5	40.0	3.04	1.09
860 Guscio fond.	608	622	955	954	5	40.0	3.04	1.09
861 Guscio fond.	622	636	956	955	5	40.0	3.04	1.09
862 Guscio fond.	636	650	957	956	5	40.0	3.04	1.09
863 Guscio fond.	650	664	958	957	5	40.0	3.04	1.09
864 Guscio fond.	664	678	959	958	5	40.0	3.04	1.09
865 Guscio fond.	678	692	960	959	5	40.0	3.04	1.09
866 Guscio fond.	692	15	914	960	5	40.0	3.04	1.09
867 Guscio fond.	706	27	916	961	5	40.0	3.04	1.09
868 Guscio fond.	15	732	962	914	5	40.0	3.04	1.09
869 Guscio fond.	732	746	963	962	5	40.0	3.04	1.09
870 Guscio fond.	746	760	964	963	5	40.0	3.04	1.09
871 Guscio fond.	760	774	965	964	5	40.0	3.04	1.09
872 Guscio fond.	774	788	966	965	5	40.0	3.04	1.09
873 Guscio fond.	788	802	967	966	5	40.0	3.04	1.09
874 Guscio fond.	802	816	968	967	5	40.0	3.04	1.09
875 Guscio fond.	816	830	969	968	5	40.0	3.04	1.09
876 Guscio fond.	830	17	915	969	5	40.0	3.04	1.09
877 Guscio fond.	17	856	970	915	5	40.0	3.04	1.09
878 Guscio fond.	856	870	971	970	5	40.0	3.04	1.09
879 Guscio fond.	870	884	972	971	5	40.0	3.04	1.09
880 Guscio fond.	884	898	973	972	5	40.0	3.04	1.09
881 Guscio fond.	166	910	974	925	5	40.0	3.04	1.09
882 Guscio fond.	910	193	926	974	5	40.0	3.04	1.09
883 Guscio fond.	975	982	29	1	5	40.0	3.04	1.09
884 Guscio fond.	982	983	55	29	5	40.0	3.04	1.09
885 Guscio fond.	983	984	69	55	5	40.0	3.04	1.09
886 Guscio fond.	984	985	83	69	5	40.0	3.04	1.09
887 Guscio fond.	985	986	97	83	5	40.0	3.04	1.09
888 Guscio fond.	986	987	111	97	5	40.0	3.04	1.09
889 Guscio fond.	987	988	125	111	5	40.0	3.04	1.09
890 Guscio fond.	988	989	139	125	5	40.0	3.04	1.09
891 Guscio fond.	989	990	153	139	5	40.0	3.04	1.09
892 Guscio fond.	990	991	167	153	5	40.0	3.04	1.09
893 Guscio fond.	991	992	180	167	5	40.0	3.04	1.09
894 Guscio fond.	992	979	22	180	5	40.0	3.04	1.09
895 Guscio fond.	979	993	207	22	5	40.0	3.04	1.09
896 Guscio fond.	993	994	221	207	5	40.0	3.04	1.09
897 Guscio fond.	994	995	235	221	5	40.0	3.04	1.09
898 Guscio fond.	995	996	249	235	5	40.0	3.04	1.09
899 Guscio fond.	996	997	263	249	5	40.0	3.04	1.09
900 Guscio fond.	997	998	277	263	5	40.0	3.04	1.09
901 Guscio fond.	998	999	291	277	5	40.0	3.04	1.09
902 Guscio fond.	999	1000	305	291	5	40.0	3.04	1.09
903 Guscio fond.	1000	1001	319	305	5	40.0	3.04	1.09
904 Guscio fond.	1001	1002	333	319	5	40.0	3.04	1.09
905 Guscio fond.	1002	1003	347	333	5	40.0	3.04	1.09
906 Guscio fond.	1003	1004	361	347	5	40.0	3.04	1.09
907 Guscio fond.	1004	978	21	361	5	40.0	3.04	1.09
908 Guscio fond.	978	1005	387	21	5	40.0	3.04	1.09
909 Guscio fond.	1005	1006	401	387	5	40.0	3.04	1.09
910 Guscio fond.	1006	1007	415	401	5	40.0	3.04	1.09
911 Guscio fond.	1007	1008	429	415	5	40.0	3.04	1.09
912 Guscio fond.	1008	1009	443	429	5	40.0	3.04	1.09
913 Guscio fond.	1009	1010	457	443	5	40.0	3.04	1.09
914 Guscio fond.	1010	1011	471	457	5	40.0	3.04	1.09
915 Guscio fond.	1011	1012	485	471	5	40.0	3.04	1.09
916 Guscio fond.	1012	1013	499	485	5	40.0	3.04	1.09
917 Guscio fond.	1013	980	23	499	5	40.0	3.04	1.09
918 Guscio fond.	1038	1014	528	899	5	40.0	3.04	1.09
919 Guscio fond.	980	1015	539	23	5	40.0	3.04	1.09
920 Guscio fond.	1015	1016	553	539	5	40.0	3.04	1.09
921 Guscio fond.	1016	1017	567	553	5	40.0	3.04	1.09
922 Guscio fond.	1017	1018	581	567	5	40.0	3.04	1.09
923 Guscio fond.	1018	1019	595	581	5	40.0	3.04	1.09
924 Guscio fond.	1019	1020	609	595	5	40.0	3.04	1.09
925 Guscio fond.	1020	1021	623	609	5	40.0	3.04	1.09

926	Guscio fond.	1021	1022	637	623	5	40.0	3.04	1.09
927	Guscio fond.	1022	1023	651	637	5	40.0	3.04	1.09
928	Guscio fond.	1023	1024	665	651	5	40.0	3.04	1.09
929	Guscio fond.	1024	1025	679	665	5	40.0	3.04	1.09
930	Guscio fond.	1025	977	12	679	5	40.0	3.04	1.09
931	Guscio fond.	1014	981	25	528	5	40.0	3.04	1.09
932	Guscio fond.	977	1026	719	12	5	40.0	3.04	1.09
933	Guscio fond.	1026	1027	733	719	5	40.0	3.04	1.09
934	Guscio fond.	1027	1028	747	733	5	40.0	3.04	1.09
935	Guscio fond.	1028	1029	761	747	5	40.0	3.04	1.09
936	Guscio fond.	1029	1030	775	761	5	40.0	3.04	1.09
937	Guscio fond.	1030	1031	789	775	5	40.0	3.04	1.09
938	Guscio fond.	1031	1032	803	789	5	40.0	3.04	1.09
939	Guscio fond.	1032	1033	817	803	5	40.0	3.04	1.09
940	Guscio fond.	1033	976	9	817	5	40.0	3.04	1.09
941	Guscio fond.	976	1034	843	9	5	40.0	3.04	1.09
942	Guscio fond.	1034	1035	857	843	5	40.0	3.04	1.09
943	Guscio fond.	1035	1036	871	857	5	40.0	3.04	1.09
944	Guscio fond.	1036	1037	885	871	5	40.0	3.04	1.09
945	Guscio fond.	1037	1038	899	885	5	40.0	3.04	1.09
946	Guscio fond.	1039	1	31	1041	5	40.0	3.04	1.09
947	Guscio fond.	1041	31	33	1042	5	40.0	3.04	1.09
948	Guscio fond.	1042	33	35	1043	5	40.0	3.04	1.09
949	Guscio fond.	1043	35	37	1044	5	40.0	3.04	1.09
950	Guscio fond.	1044	37	39	1045	5	40.0	3.04	1.09
951	Guscio fond.	1045	39	41	1046	5	40.0	3.04	1.09
952	Guscio fond.	1046	41	43	1047	5	40.0	3.04	1.09
953	Guscio fond.	1047	43	45	1048	5	40.0	3.04	1.09
954	Guscio fond.	1048	45	47	1049	5	40.0	3.04	1.09
955	Guscio fond.	1049	47	49	1050	5	40.0	3.04	1.09
956	Guscio fond.	1050	49	51	1051	5	40.0	3.04	1.09
957	Guscio fond.	1051	51	53	1052	5	40.0	3.04	1.09
958	Guscio fond.	1052	53	3	1040	5	40.0	3.04	1.09
959	Guscio fond.	1040	3	911	1053	5	40.0	3.04	1.09
960	Guscio fond.	1054	975	1	1039	5	40.0	3.04	1.09
961	Guscio fond.	25	1055	1057	707	5	40.0	3.04	1.09
962	Guscio fond.	707	1057	1058	708	5	40.0	3.04	1.09
963	Guscio fond.	708	1058	1059	709	5	40.0	3.04	1.09
964	Guscio fond.	709	1059	1060	710	5	40.0	3.04	1.09
965	Guscio fond.	710	1060	1061	711	5	40.0	3.04	1.09
966	Guscio fond.	711	1061	1062	712	5	40.0	3.04	1.09
967	Guscio fond.	712	1062	1063	713	5	40.0	3.04	1.09
968	Guscio fond.	713	1063	1064	714	5	40.0	3.04	1.09
969	Guscio fond.	714	1064	1065	715	5	40.0	3.04	1.09
970	Guscio fond.	715	1065	1066	716	5	40.0	3.04	1.09
971	Guscio fond.	716	1066	1067	717	5	40.0	3.04	1.09
972	Guscio fond.	717	1067	1068	718	5	40.0	3.04	1.09
973	Guscio fond.	205	219	220	206	5	40.0	3.04	1.09
974	Guscio fond.	193	206	1070	926	5	40.0	3.04	1.09
975	Guscio fond.	206	220	928	1070	5	40.0	3.04	1.09



16_MOD_NUMERAZIONE_D3



16_MOD_SPESSORI_D3

10. MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

10.1. LEGENDA TABELLA DATI SOLAI-PANNELLI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio o pannello.

Ogni elemento solaio-pannello è individuato da una poligonale di nodi 1,2, ..., N.

L'elemento solaio è utilizzato in primo luogo per la modellazione dei carichi agenti sugli elementi strutturali. In secondo luogo può essere utilizzato per la corretta ripartizione delle forze orizzontali agenti nel proprio piano. L'elemento balcone è derivato dall'elemento solaio.

I carichi agenti sugli elementi solaio, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori). La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.

L'elemento pannello è utilizzato solo per l'applicazione dei carichi, quali pesi delle tamponature o spinte dovute al vento o terre. In questo caso i carichi sono applicati in analogia agli altri elementi strutturali (si veda il cap. SCHEMATIZZAZIONE DEI CASI DI CARICO).

Id.Arch.	Identificativo dell' archivio
Tipo	Tipo di carico ***Variab.*** Carico variabile generico ***Var. rid.*** Carico variabile generico con riduzione in funzione dell' area (c.5.5. …) ***Neve*** Carico di neve
G1k	carico permanente (comprensivo del peso proprio)
G2k	carico permanente non strutturale e non compiutamente definito
Qk	carico variabile
Fatt. A	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
S sis.	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
Psi 0	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: ***per valore raro***
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: ***per valore frequente***
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: ***per valore quasi permanente***
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: ***per la definizione delle masse sismiche***
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione. In particolare per ogni elemento viene indicato in tabella:

Elem	numero dell'elemento	
Tipo	codice di comportamento	
	S	elemento utilizzato solo per scarico
	C	elemento utilizzato per scarico e per modellazione piano rigido
	P	elemento utilizzato come pannello
	M	scarico monodirezionale
	B	scarico bidirezionale
Id.Arch.	Identificativo dell' archivio	
Mat	codice del materiale assegnato all'elemento	
Spessore	spessore dell'elemento (costante)	
Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali	
Gk	carico permanente solaio (comprensivo del peso proprio)	
Qk	carico variabile solaio	
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)	

Nel caso in cui si sia proceduto alla progettazione dei solai con le tensioni ammissibili vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale); nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite vengono riportati il rapporto x/d e le verifiche per sollecitazioni proporzionali nonché le verifiche in esercizio.

In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	numero identificativo dell'elemento
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m);
Pos.	Ascissa del punto di verifica
F ist, F infi	Frecce instantanee e a tempo infinito
Momento	Momento flettente
Taglio	Sollecitazione di taglio
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup.	Area di armatura longitudinale posta all'estradosso della trave

AfV	Area dell'armatura atta ad assorbire le azioni di taglio
Beff	Base della sezione di cls per l'assorbimento del taglio
	simboli utilizzati con il metodo delle tensioni ammissibili:
sc max	Massima tensione di compressione del calcestruzzo
sf max	Massima tensione nell'acciaio
tau max	Massima tensione tangenziale nel cls
	simboli utilizzati con il metodo degli stati limite:
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
verif.	rapporto Sd/Su con sollecitazioni ultime proporzionali: valore minore o uguale a 1 per verifica positiva
Verif.V	rapporto Sd/Su con sollecitazioni taglianti proporzionali valore minore o uguale a 1 per verifica positiva
rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
rFfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni frequenti [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni frequenti [normalizzato a 1]
rFyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni quasi permanenti [normalizzato a 1]
wR	apertura caratteristica delle fessure in combinazioni rare [mm]
wF	apertura caratteristica delle fessure in combinazioni frequenti [mm]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]

Nel caso in cui si sia proceduto alla verifica delle tamponature secondo il D.M. 17.01.2018 - §7.2.3 viene riportata una tabella riassuntiva delle verifiche degli elementi pannello. La verifica confronta i momenti sollecitanti indotti dal sisma con i momenti resistenti, secondo tre ipotesi, due basate sulla resistenza a pressoflessione della tamponatura ed una basata sul cinematismo a seguito della formazione di tre cerniere plastiche sulla tamponatura (rif. Ufficio di Vigilanza sulle Costruzioni, Provincia di Terni).

Qualora la tamponatura sia di tipo antiespulsione (nelle due possibili varianti ordinaria o armata) viene condotta una

verifica con meccanismo ad arco con degrado di resistenza. La verifica confronta le pressioni sollecitanti indotte dal sisma con le pressioni resistenti che la tamponatura sviluppa attraverso il meccanismo ad arco. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura.

Per quest'ultima tamponatura sono disponibili, in funzione del materiale impiegato (materiale [52] o materiale [53]):

- **Tamponatura Antiespulsione ordinaria Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova.

  Utilizzabile per il materiale [52].

- **Tamponatura Antiespulsione armata Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova.

  Utilizzabile per il materiale [53].

La verifica è stata calibrata sulla base di prove sperimentali sul sistema di Tamponatura Antiespulsione anche in presenza di aperture.

(rif. Rapporti di Prova redatti dal Dipartimento ICEA - Università degli Studi di Padova di test sperimentali condotti sul sistema Tamponatura Antiespulsione di Cis Edil)

In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	Numero identificativo dell'elemento
Stato	Codice di verifica
Ver. c.c.	Verifica nell'ipotesi di trave appoggiata con carico concentrato in mezzeria
Ver. c.d.	Verifica nell'ipotesi di trave appoggiata con carico distribuito
Ver. c.cin.	Verifica nell'ipotesi di cinematismo con formazione di cerniere plastiche in appoggio e mezzeria
Ver. CIS	Rapporto pa/pr (valore minore o uguale a 1 per verifica positiva)
Z	Quota del baricentro dell'elemento
T1	Periodo proprio dell'edificio nella direzione di interesse (ortogonale al pannello)
Ta	Periodo proprio della parete
Sa	Accelerazione massima, adimensionalizzata allo SLV
pa	Pressione sulla parete causata dall'azione sismica
pr	Pressione resistente del meccanismo ad arco
Drift	Spostamento relativo interpiano allo SLV valutato secondo il D.M. 14.01.2018 - § 7.3.3.3
Beta a	Coef. riduttivo per tener conto del danneggiamento del piano dipendente dallo spostamento, ottenuto sperimentalmente

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

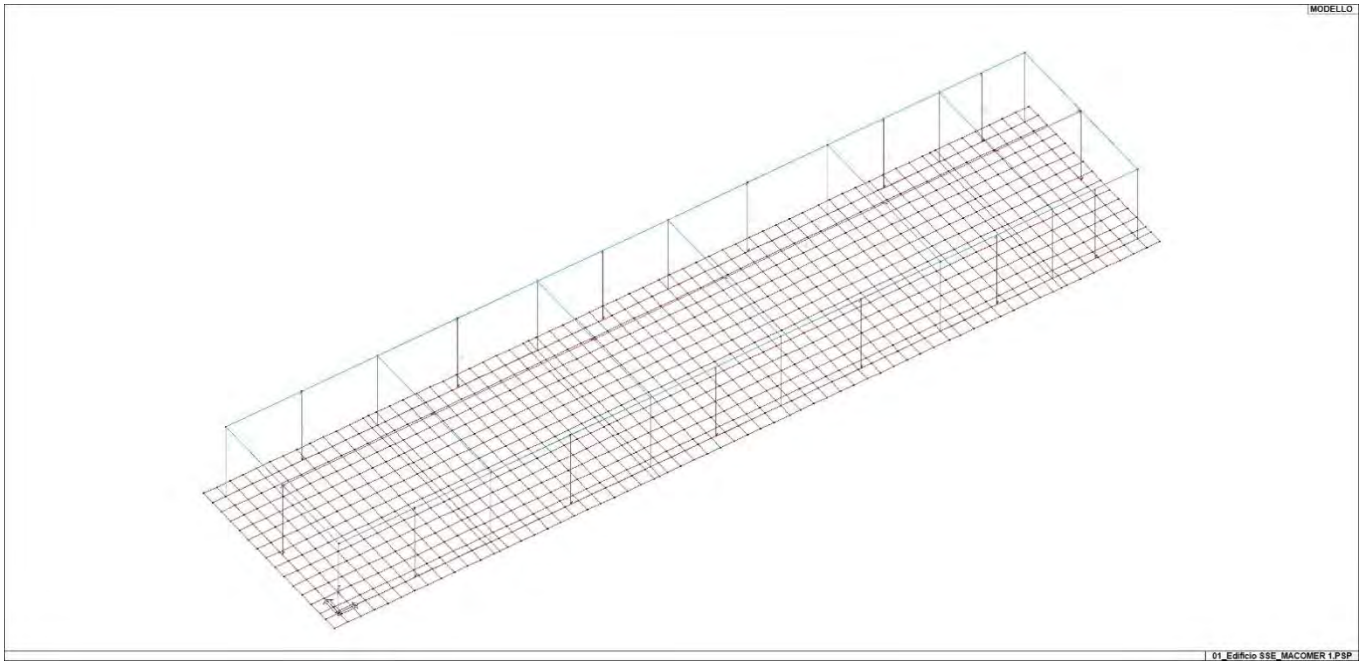
Test N°	Titolo
14	ANALISI DEI CARICHI PER UN SOLAIO DI COPERTURA
15	EFFETTI DELLO SPESSORE SULLA RIGIDEZZA DEI SOLAI
16	SOLAIO: CONFRONTO FRA RIGIDO E DEFORMABILE
17	SOLAIO: MISTO LEGNO-CALCESTRUZZO
28	FRECCIA DI SOLAI IN C.A.
119	PROGETTO E VERIFICA DI SOLAI IN MATERIALE XLAM

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		daN/cm2	daN/cm2	daN/cm2							
1	Neve	2.87e-02	3.60e-04	9.70e-03		1.00	0.50	0.20	0.0	0.0	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/cm2	daN/cm2	daN/cm2					
1	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	20	6	4	2	
2	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	5	10	6	20	
3	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	8	14	10	5	
4	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	7	16	14	8	
5	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	19	18	16	7	
6	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	26	28	18	19	
7	PM		m=25	1.0	90.0				206	3	4	6	
8	PM		m=25	1.0	90.0				1	3	4	2	
9	PM		m=25	1.0	90.0				20	22	1	2	
10	PM		m=25	1.0	90.0				22	20	5	21	
11	PM		m=25	1.0	90.0				23	21	5	8	
12	PM		m=25	1.0	90.0				12	23	8	7	
13	PM		m=25	1.0	90.0				28	26	25	27	
14	PM		m=25	1.0	90.0				25	9	19	26	
15	PM		m=25	1.0	90.0				9	12	7	19	
16	PM		m=25	1.0	90.0				10	14	13	11	
17	PM		m=25	1.0	90.0				14	16	15	13	
18	PM		m=25	1.0	90.0				16	18	17	15	
19	PM		m=25	1.0	90.0				18	28	27	17	
20	PM		m=25	1.0	90.0				6	10	11	206	

Elem.	Stato	Ver. c.c.	Ver. c.d.	Ver. cin.	Ver. CIS	Z	T1	Ta	Sa	pa	pr	Drift	Beta a
						cm	sec	sec	g	daN/cm2	daN/cm2	%	
7	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
8	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.10	0.0
9	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
10	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
11	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
12	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
13	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.08	0.0
14	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
15	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
16	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
17	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
18	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
19	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0
20	NV L	5.44	2.72	3.20	0.0	150.0	0.24	0.744	0.073.2346e-05	0.0		0.15	0.0

Elem.	Ver. c.c.	Ver. c.d.	Ver. cin.	Ver. CIS	Drift
	5.44	2.72	3.20	0.0	0.08
	5.44	2.72	3.20	0.0	0.15



17_MOD_NUMERAZIONE_SOLAI

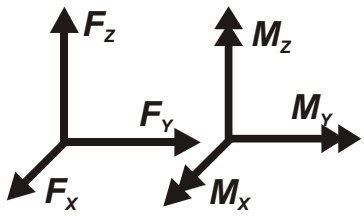
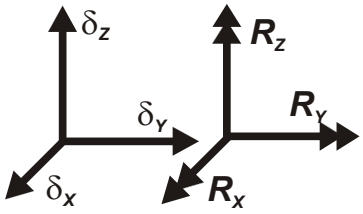
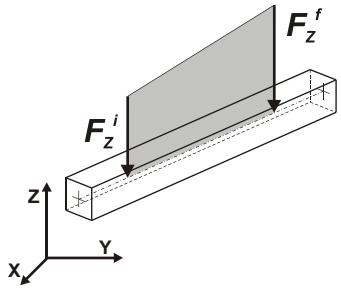
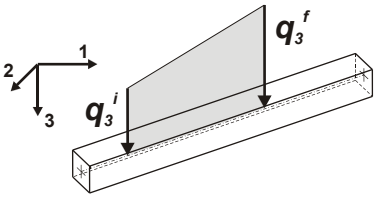
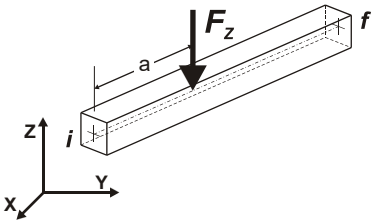
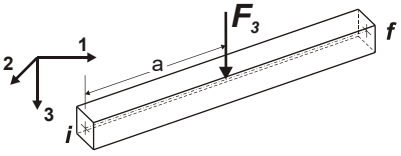
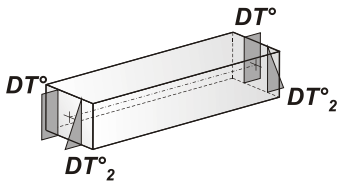
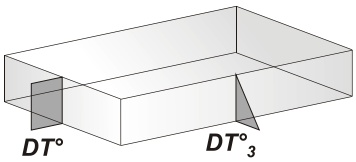
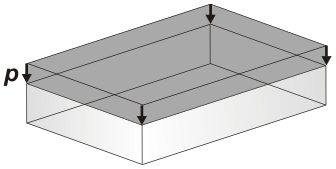
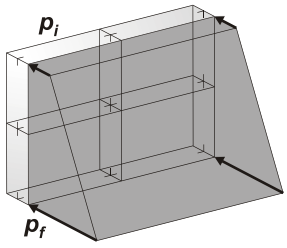
11. MODELLAZIONE DELLE AZIONI

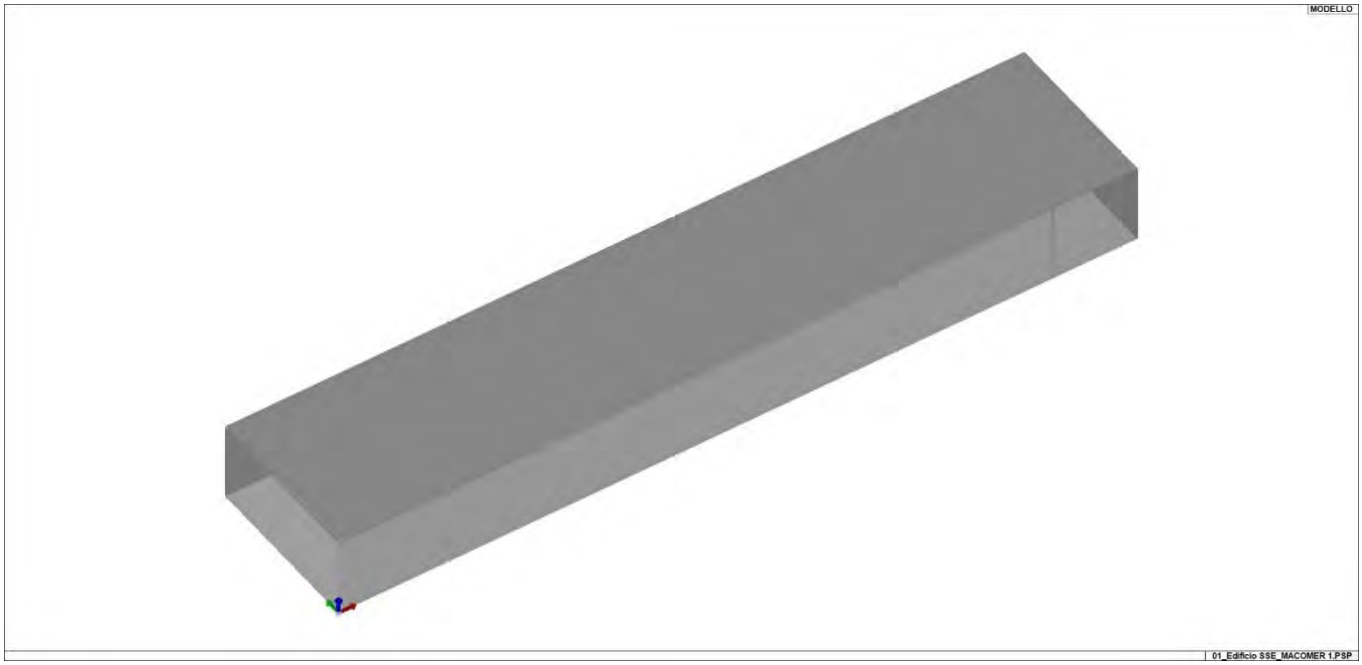
11.1. LEGENDA TABELLA DATI AZIONI

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

1	**carico concentrato nodale** 6 dati (forza Fx, Fy, Fz, momento Mx, My, Mz)
2	**spostamento nodale impresso** 6 dati (spostamento Tx,Ty,Tz, rotazione Rx,Ry,Rz)
3	**carico distribuito globale su elemento tipo trave** 7 dati (fx,fy,fz,mx,my,mz,ascissa di inizio carico) 7 dati (fx,fy,fz,mx,my,mz,ascissa di fine carico)
4	**carico distribuito locale su elemento tipo trave** 7 dati (f1,f2,f3,m1,m2,m3,ascissa di inizio carico) 7 dati (f1,f2,f3,m1,m2,m3,ascissa di fine carico)
5	**carico concentrato globale su elemento tipo trave** 7 dati (Fx,Fy,Fz,Mx,My,Mz,ascissa di carico)
6	**carico concentrato locale su elemento tipo trave** 7 dati (F1, F2, F3, M1, M2, M3, ascissa di carico)
7	**variazione termica applicata ad elemento tipo trave** 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	**carico di pressione uniforme su elemento tipo piastra** 1 dato (pressione)
9	**carico di pressione variabile su elemento tipo piastra** 4 dati (pressione, quota, pressione, quota)
10	**variazione termica applicata ad elemento tipo piastra** 2 dati (variazioni termiche: media e differenza nello spessore)
11	**carico variabile generale su elementi tipo trave e piastra**

	1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
12	**gruppo di carichi con impronta su piastra** 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell' impronta, interasse tra i carichi

	Carico concentrato nodale		Spostamento impresso
	Carico distribuito globale		Carico distribuito locale
	Carico concentrato globale		Carico concentrato locale
	Carico termico 2D		Carico termico 3D
	Carico pressione uniforme		Carico pressione variabile



21_CAR_CARICHI_SOLAI

12. SCHEMATIZZAZIONE DEI CASI DI CARICO

12.1. LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.

Sono previsti i seguenti 11 tipi di casi di carico:

	Sigla	***Tipo***	***Descrizione***
1	**Ggk**	A	caso di carico comprensivo del peso proprio struttura
2	**Gk**	NA	caso di carico con azioni permanenti
3	**Qk**	NA	caso di carico con azioni variabili
4	**Gsk**	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	**Qsk**	A	caso di carico comprensivo dei carichi variabili sui solai
6	**Qnk**	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	**Qtk**	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	**Qvk**	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	**Esk**	SA	caso di carico sismico con analisi statica equivalente
10	**Edk**	SA	caso di carico sismico con analisi dinamica
11	**Etk**	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	**Pk**	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

Sono di tipo automatico A (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di tipo semi-automatico SA (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:

7-Qtk, in quanto richiede solo il valore della variazione termica;

9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo non automatico NA ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

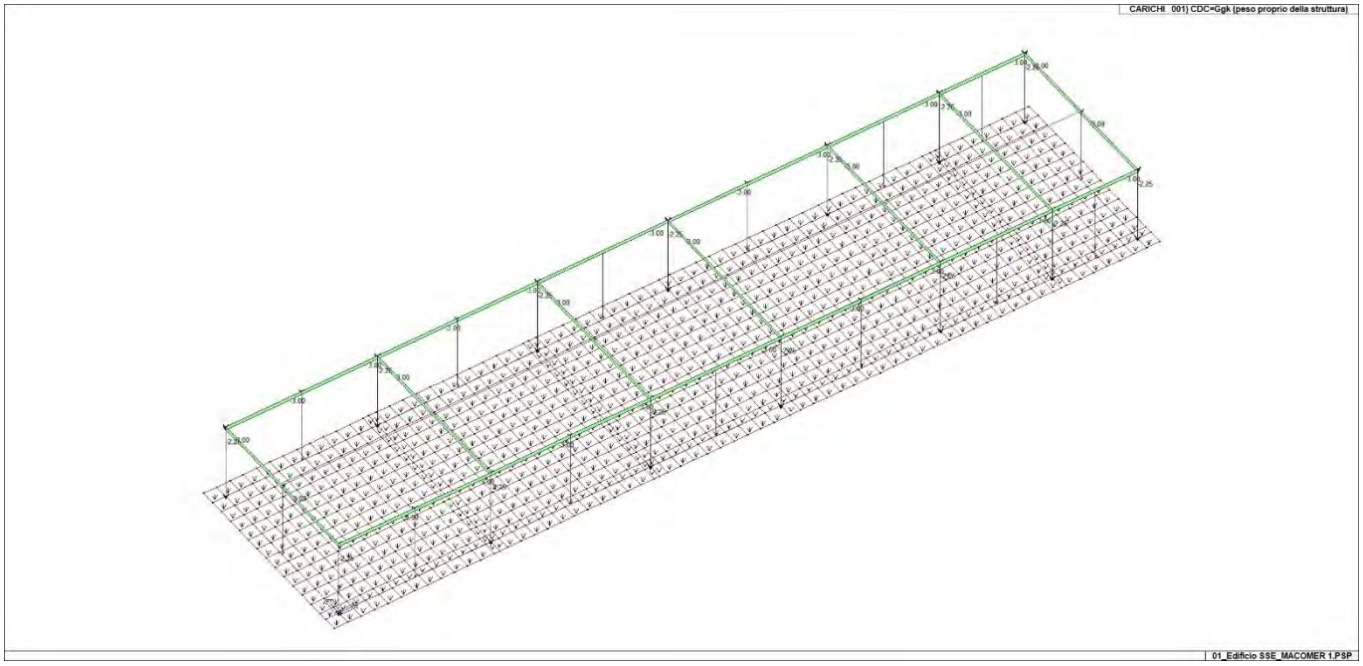
Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

Numero Tipo e *Sigla identificativa*, *Valore di riferimento* del caso di carico (se previsto).

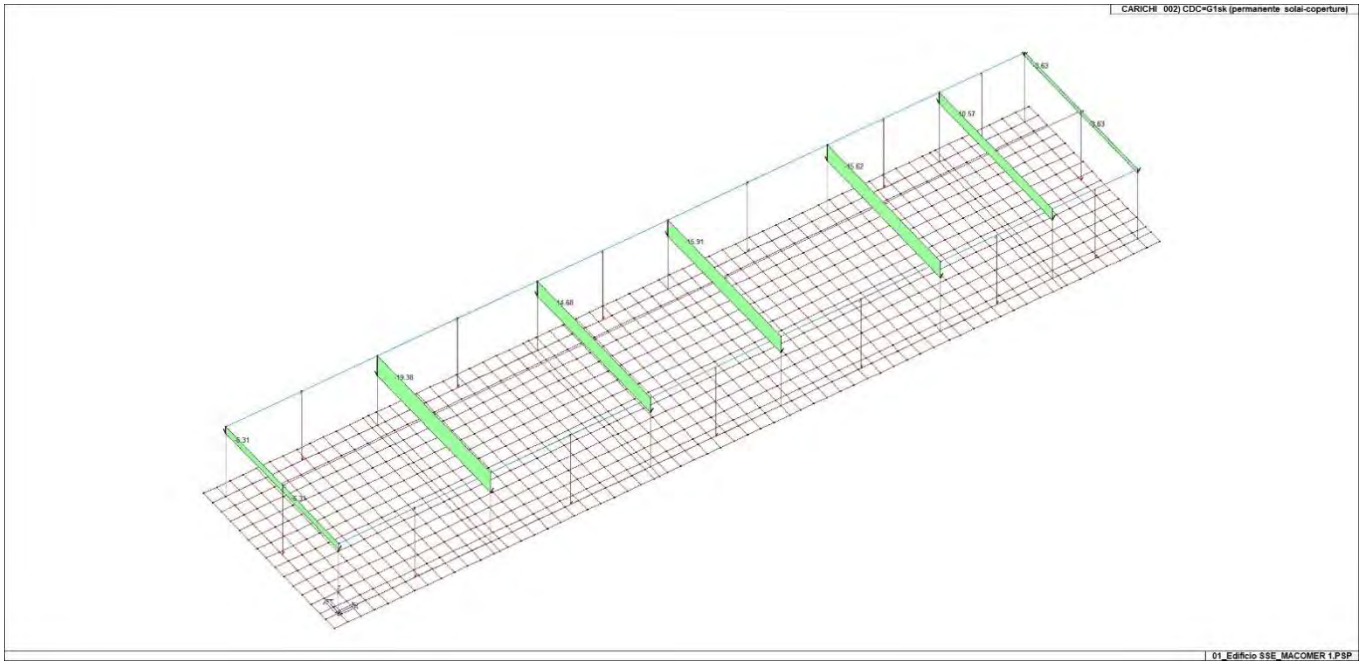
In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

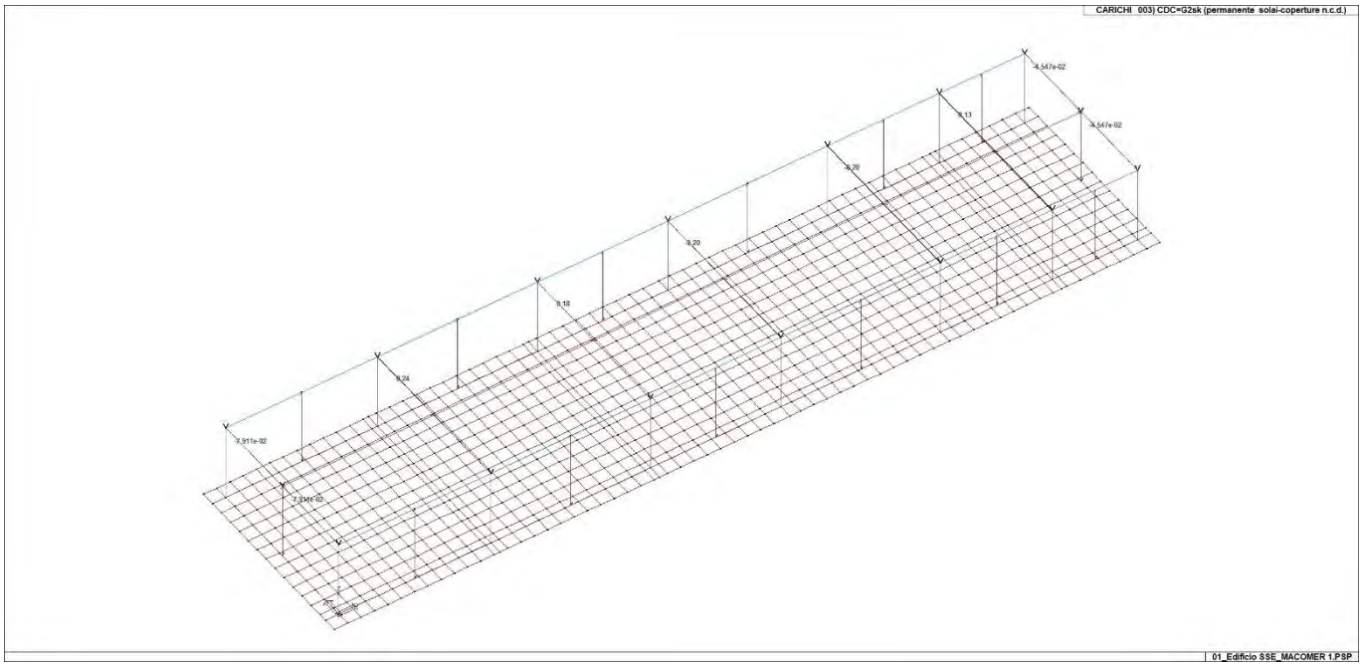
CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Gsk	CDC=G2pk (permanente pannelli n.c.d.)	
5	Qnk	CDC=Qnk (carico da neve)	
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=G2pk (permanente pannelli n.c.d.)
			partecipazione:1.00 per 5 CDC=Qnk (carico da neve)
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico



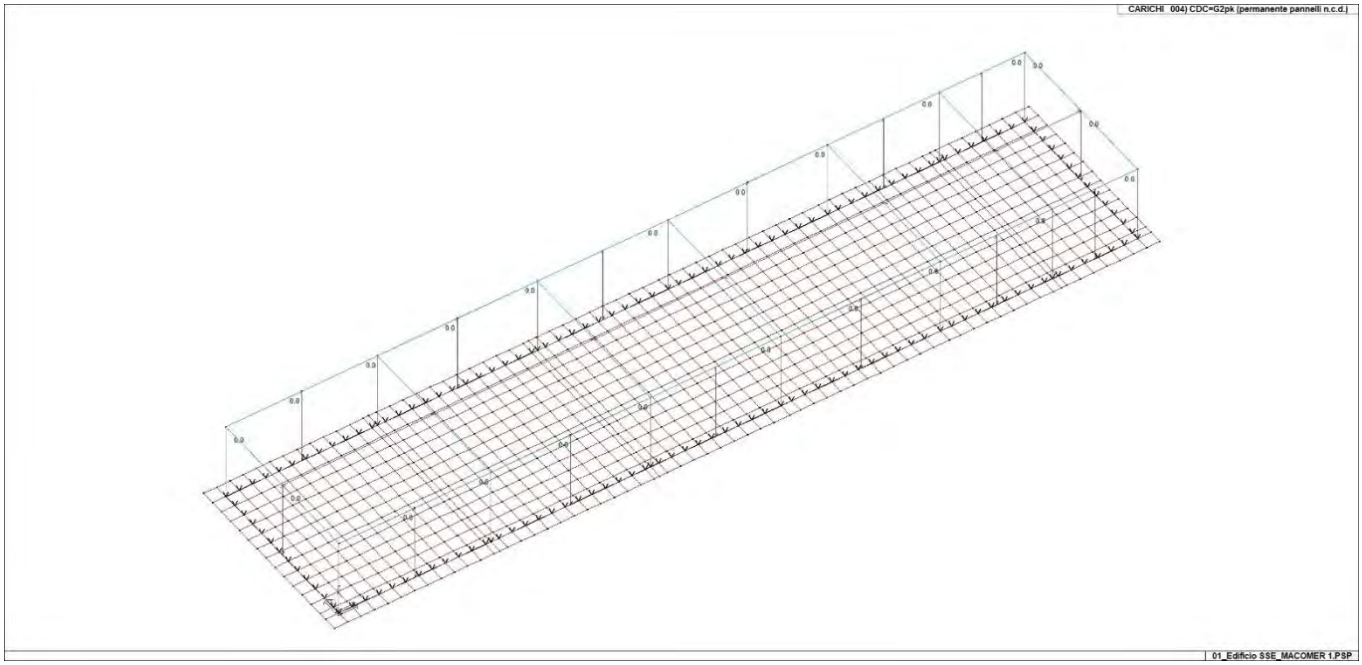
22_CDC_001_CDC=Ggk (peso proprio della struttura)



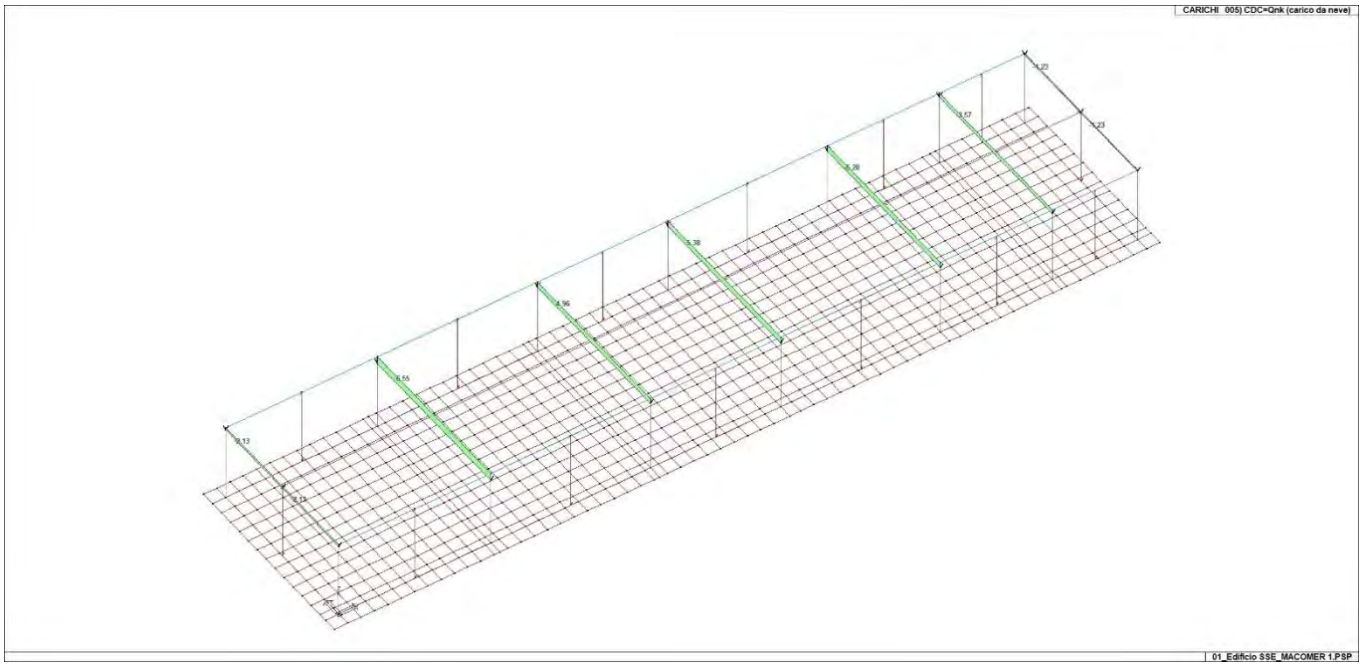
22_CDC_002_CDC=G1sk (permanente solai-coperture)



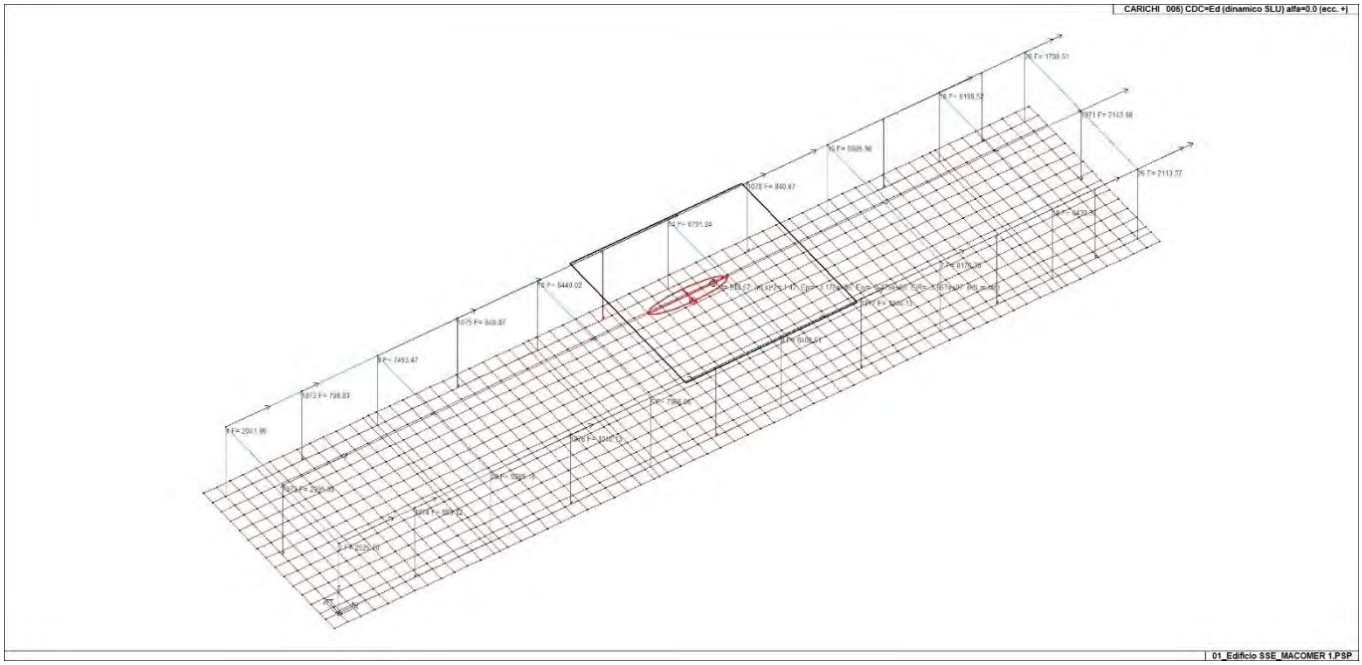
22_CDC_003_CDC=G2sk (permanente solai-coperture n.c.d.)



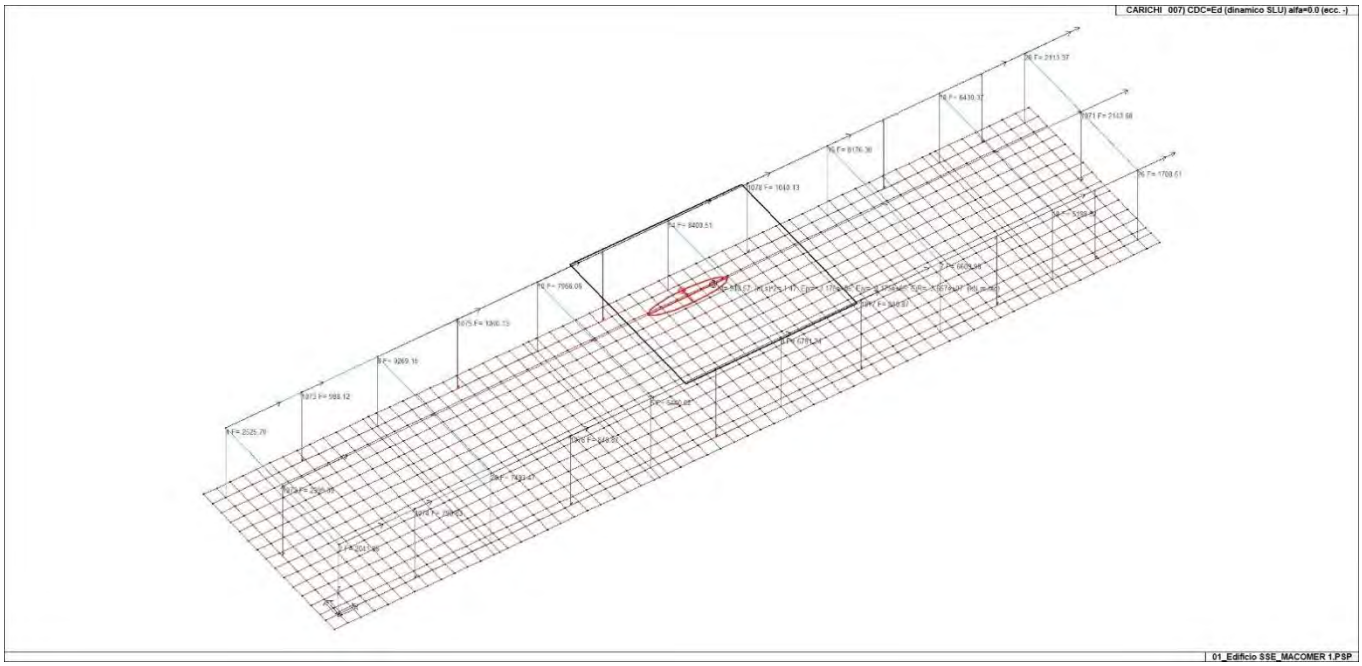
22_CDC_004_CDC=G2pk (permanente pannelli n.c.d.)



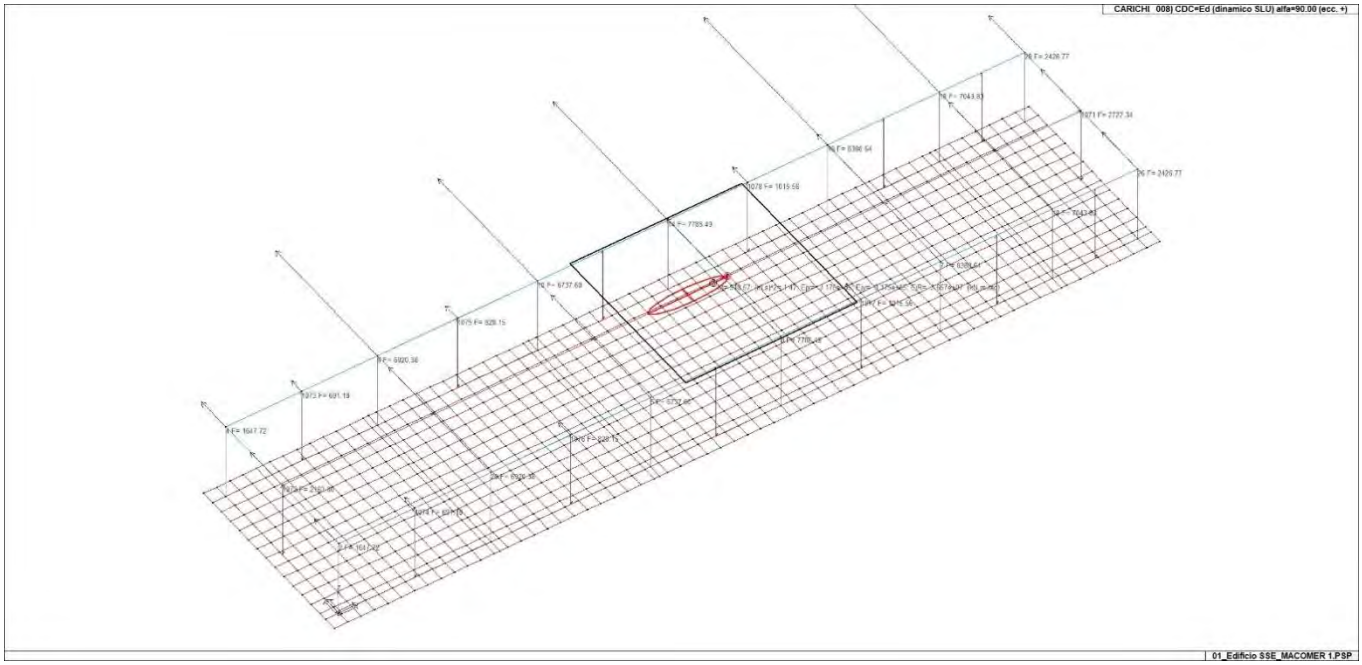
22_CDC_005_CDC=Qnk (carico da neve)



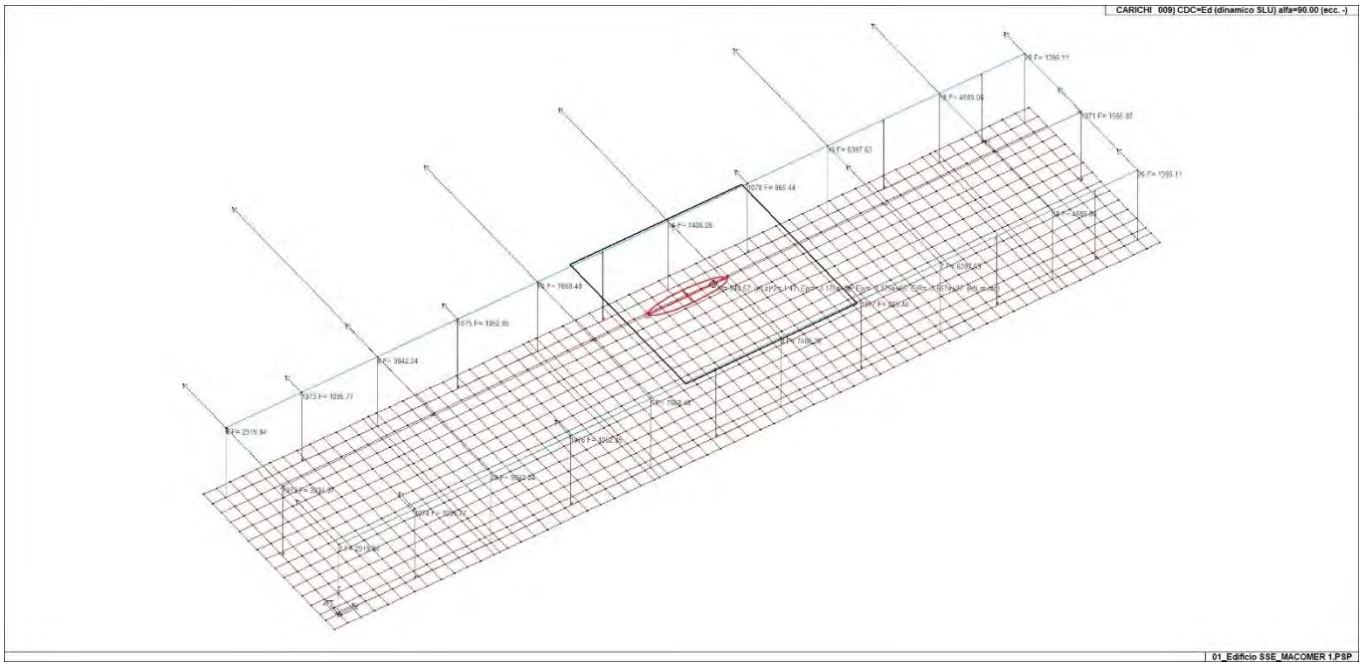
22_CDC_006_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)



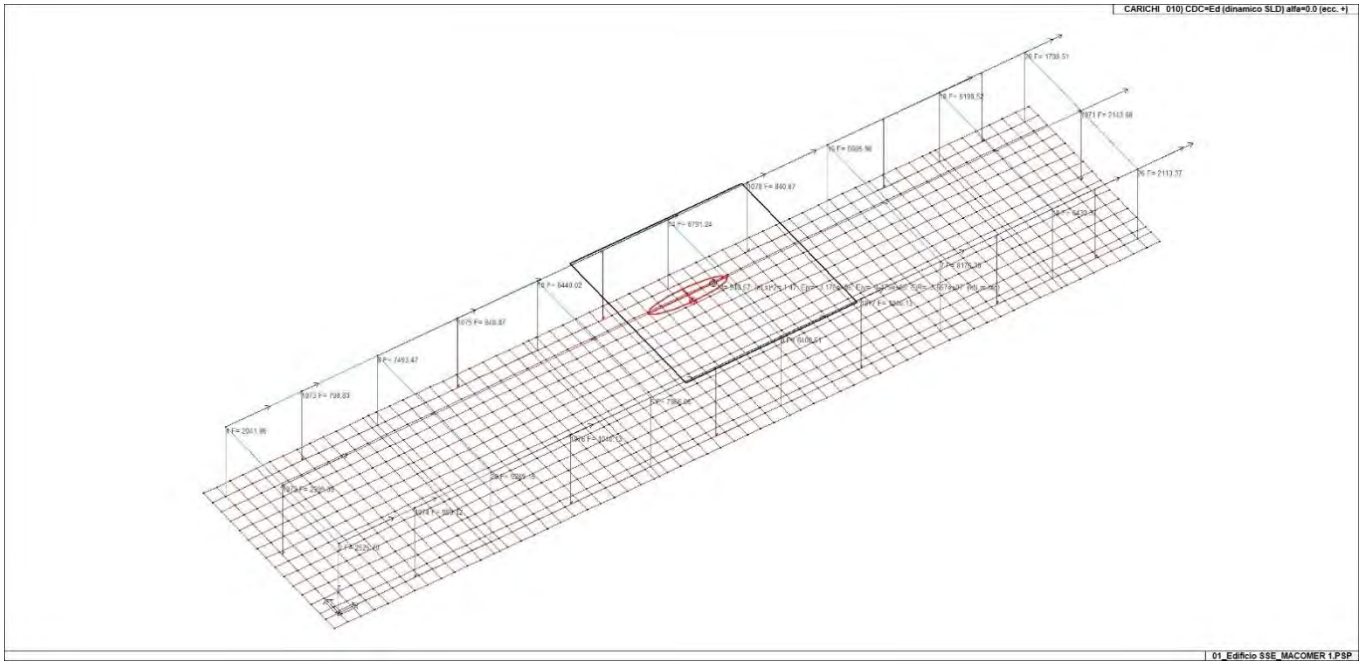
22_CDC_007_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)



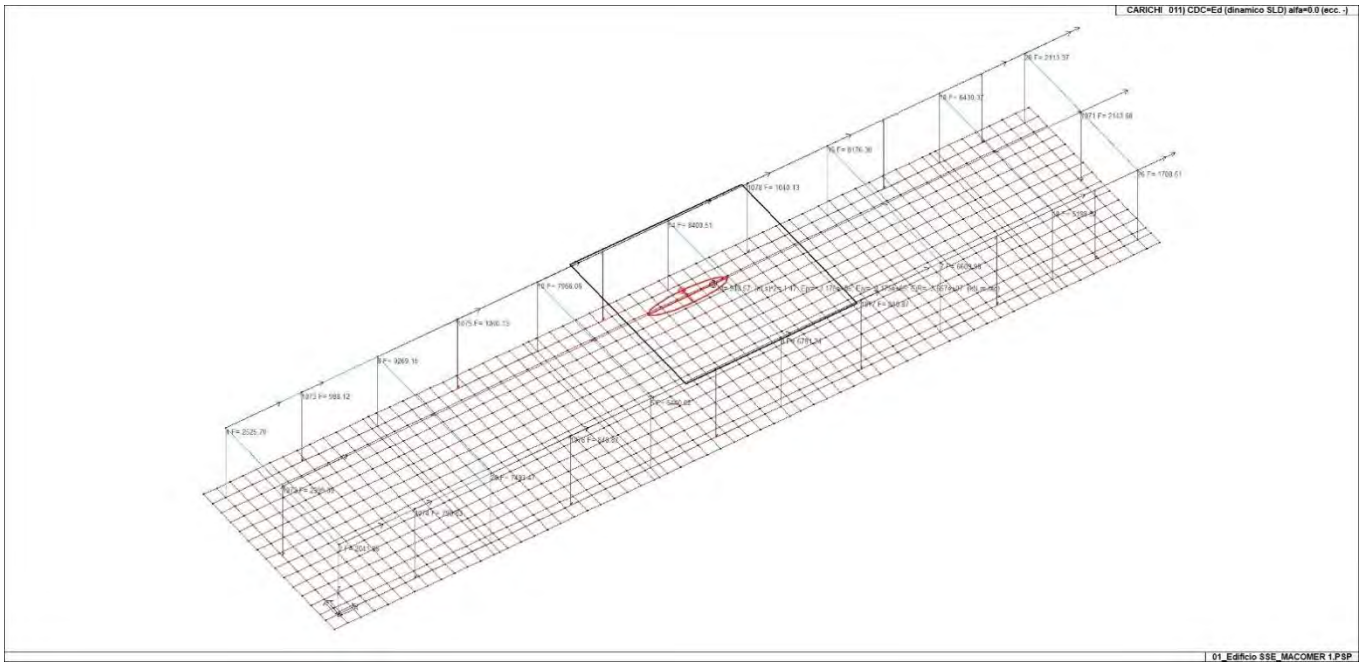
22_CDC_008_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)



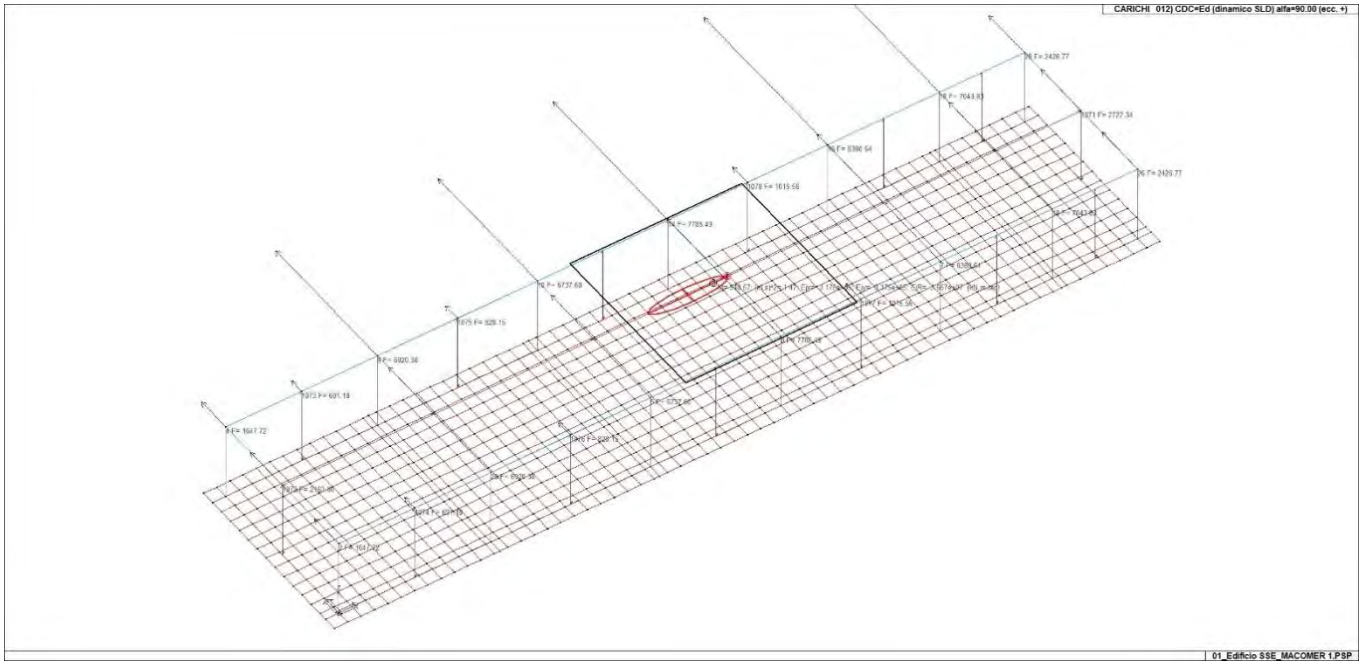
22_CDC_009_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)



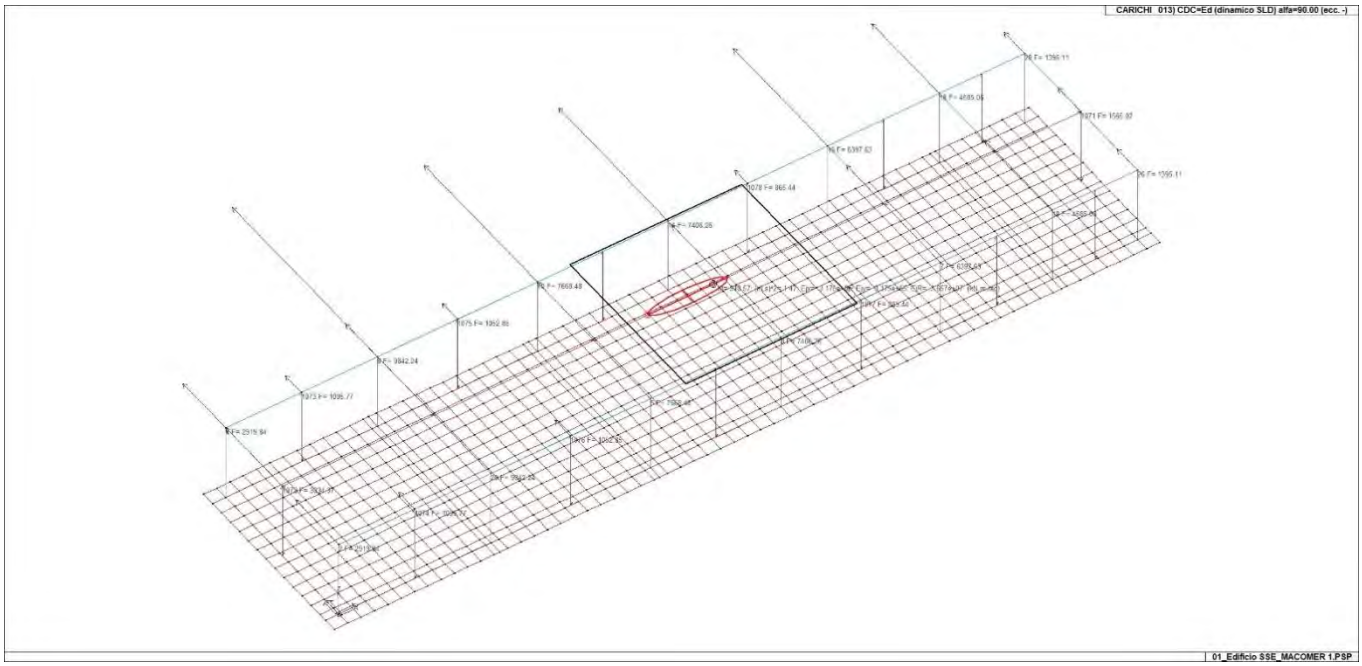
22_CDC_010_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)



22_CDC_011_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)



22_CDC_012_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)



22_CDC_013_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)

13. DEFINIZIONE DELLE COMBINAZIONI

13.1. LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente.

Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

***Combinazione fondamentale** SLU*

$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi 02 \cdot Qk2 + \gamma Q3 \cdot \psi 03 \cdot Qk3 + \ldots$

***Combinazione caratteristica** (rara) SLE*

$G1 + G2 + P + Qk1 + \psi 02 \cdot Qk2 + \psi 03 \cdot Qk3 + \ldots$

***Combinazione frequente** SLE*

$G1 + G2 + P + \psi 11 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \ldots$

***Combinazione quasi permanente** SLE*

$G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \ldots$

***Combinazione sismica**, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E*

$E + G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \ldots$

***Combinazione eccezionale**, impiegata per gli stati limite connessi alle azioni eccezionali*

$G1 + G2 + Ad + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \ldots$

Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	***ψ0***	***ψ1***	***ψ2***
Categoria A residenziali	*0,70*	*0,50*	*0,30*
Categoria B uffici	*0,70*	*0,50*	*0,30*
Categoria C ambienti suscettibili di affollamento	*0,70*	*0,70*	*0,60*
Categoria D ambienti ad uso commerciale	*0,70*	*0,70*	*0,60*
Categoria E biblioteche, archivi, magazzini,…	*1,00*	*0,90*	*0,80*
Categoria F Rimesse e parcheggi (autoveicoli <= 30kN)	*0,70*	*0,70*	*0,60*
Categoria G Rimesse e parcheggi (autoveicoli > 30kN)	*0,70*	*0,50*	*0,30*
Categoria H Coperture	*0,00*	*0,00*	*0,00*
Vento	*0,60*	*0,20*	*0,00*

Neve a quota <= 1000 m	*0,50*	*0,20*	*0,00*
Neve a quota > 1000 m	*0,70*	*0,50*	*0,20*
Variazioni Termiche	*0,60*	*0,50*	*0,00*

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),

- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.I

		Coefficiente γf	***EQU***	***A1***	***A2***
Carichi permanenti	*Favorevoli*	$\gamma G1$	*0,9*	*1,0*	*1,0*
	Sfavorevoli		*1,1*	*1,3*	*1,0*
Carichi permanenti non strutturali *(Non compiutamente definiti)*	*Favorevoli*	$\gamma G2$	*0,8*	*0,8*	*0,8*
	Sfavorevoli		*1,5*	*1,5*	*1,3*
Carichi variabili	*Favorevoli*	γQi	*0,0*	*0,0*	*0,0*
	Sfavorevoli		*1,5*	*1,5*	*1,3*

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 (SLV sism.) 5	
6	SLU	Comb. SLU A1 (SLV sism.) 6	
7	SLU	Comb. SLU A1 (SLV sism.) 7	
8	SLU	Comb. SLU A1 (SLV sism.) 8	
9	SLU	Comb. SLU A1 (SLV sism.) 9	
10	SLU	Comb. SLU A1 (SLV sism.) 10	
11	SLU	Comb. SLU A1 (SLV sism.) 11	
12	SLU	Comb. SLU A1 (SLV sism.) 12	
13	SLU	Comb. SLU A1 (SLV sism.) 13	
14	SLU	Comb. SLU A1 (SLV sism.) 14	
15	SLU	Comb. SLU A1 (SLV sism.) 15	
16	SLU	Comb. SLU A1 (SLV sism.) 16	
17	SLU	Comb. SLU A1 (SLV sism.) 17	
18	SLU	Comb. SLU A1 (SLV sism.) 18	
19	SLU	Comb. SLU A1 (SLV sism.) 19	
20	SLU	Comb. SLU A1 (SLV sism.) 20	
21	SLU	Comb. SLU A1 (SLV sism.) 21	
22	SLU	Comb. SLU A1 (SLV sism.) 22	
23	SLU	Comb. SLU A1 (SLV sism.) 23	
24	SLU	Comb. SLU A1 (SLV sism.) 24	
25	SLU	Comb. SLU A1 (SLV sism.) 25	
26	SLU	Comb. SLU A1 (SLV sism.) 26	

Cmb	Tipo	Sigla Id	effetto P-delta
27	SLU	Comb. SLU A1 (SLV sism.) 27	
28	SLU	Comb. SLU A1 (SLV sism.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	
30	SLU	Comb. SLU A1 (SLV sism.) 30	
31	SLU	Comb. SLU A1 (SLV sism.) 31	
32	SLU	Comb. SLU A1 (SLV sism.) 32	
33	SLU	Comb. SLU A1 (SLV sism.) 33	
34	SLU	Comb. SLU A1 (SLV sism.) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLD(sis)	Comb. SLE (SLD Danno sism.) 37	
38	SLD(sis)	Comb. SLE (SLD Danno sism.) 38	
39	SLD(sis)	Comb. SLE (SLD Danno sism.) 39	
40	SLD(sis)	Comb. SLE (SLD Danno sism.) 40	
41	SLD(sis)	Comb. SLE (SLD Danno sism.) 41	
42	SLD(sis)	Comb. SLE (SLD Danno sism.) 42	
43	SLD(sis)	Comb. SLE (SLD Danno sism.) 43	
44	SLD(sis)	Comb. SLE (SLD Danno sism.) 44	
45	SLD(sis)	Comb. SLE (SLD Danno sism.) 45	
46	SLD(sis)	Comb. SLE (SLD Danno sism.) 46	
47	SLD(sis)	Comb. SLE (SLD Danno sism.) 47	
48	SLD(sis)	Comb. SLE (SLD Danno sism.) 48	
49	SLD(sis)	Comb. SLE (SLD Danno sism.) 49	
50	SLD(sis)	Comb. SLE (SLD Danno sism.) 50	
51	SLD(sis)	Comb. SLE (SLD Danno sism.) 51	
52	SLD(sis)	Comb. SLE (SLD Danno sism.) 52	
53	SLD(sis)	Comb. SLE (SLD Danno sism.) 53	
54	SLD(sis)	Comb. SLE (SLD Danno sism.) 54	
55	SLD(sis)	Comb. SLE (SLD Danno sism.) 55	
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 56	
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 57	
58	SLD(sis)	Comb. SLE (SLD Danno sism.) 58	
59	SLD(sis)	Comb. SLE (SLD Danno sism.) 59	
60	SLD(sis)	Comb. SLE (SLD Danno sism.) 60	
61	SLD(sis)	Comb. SLE (SLD Danno sism.) 61	
62	SLD(sis)	Comb. SLE (SLD Danno sism.) 62	
63	SLD(sis)	Comb. SLE (SLD Danno sism.) 63	
64	SLD(sis)	Comb. SLE (SLD Danno sism.) 64	
65	SLD(sis)	Comb. SLE (SLD Danno sism.) 65	
66	SLD(sis)	Comb. SLE (SLD Danno sism.) 66	
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67	
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68	
69	SLE(r)	Comb. SLE(rara) 69	
70	SLE(r)	Comb. SLE(rara) 70	
71	SLE(f)	Comb. SLE(freq.) 71	
72	SLE(f)	Comb. SLE(freq.) 72	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	1.30	1.30	1.50	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	1.00	1.00	0.80	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	1.00	1.00	1.00	1.00	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	
6	1.00	1.00	1.00	1.00	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	
7	1.00	1.00	1.00	1.00	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	
8	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	
9	1.00	1.00	1.00	1.00	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	
10	1.00	1.00	1.00	1.00	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	
11	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	
12	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	
13	1.00	1.00	1.00	1.00	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	
14	1.00	1.00	1.00	1.00	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	
15	1.00	1.00	1.00	1.00	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	
16	1.00	1.00	1.00	1.00	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	
17	1.00	1.00	1.00	1.00	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	
18	1.00	1.00	1.00	1.00	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	
19	1.00	1.00	1.00	1.00	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	
20	1.00	1.00	1.00	1.00	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	
21	1.00	1.00	1.00	1.00	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
22	1.00	1.00	1.00	1.00	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	
23	1.00	1.00	1.00	1.00	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	
24	1.00	1.00	1.00	1.00	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	
25	1.00	1.00	1.00	1.00	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	
26	1.00	1.00	1.00	1.00	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	
27	1.00	1.00	1.00	1.00	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	
28	1.00	1.00	1.00	1.00	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	
29	1.00	1.00	1.00	1.00	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	
30	1.00	1.00	1.00	1.00	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	
31	1.00	1.00	1.00	1.00	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	
32	1.00	1.00	1.00	1.00	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	
33	1.00	1.00	1.00	1.00	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	
34	1.00	1.00	1.00	1.00	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	
35	1.00	1.00	1.00	1.00	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	
36	1.00	1.00	1.00	1.00	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	
37	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	
38	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	
39	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	
40	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	
41	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	
42	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	
43	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	
44	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	
45	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	
46	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	
47	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	
48	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	
49	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	
50	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	
51	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	
52	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	
53	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	
54	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	
55	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	
56	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	
57	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	
58	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	
59	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	
60	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	
61	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	
62	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	
63	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	
64	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	
65	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	
66	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	
67	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	
68	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	
69	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
70	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
71	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
72	1.00	1.00	1.00	1.00	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

14. AZIONE SISMICA

14.1. VALUTAZIONE DELL' AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in condizioni ideali di sito di riferimento rigido con superficie topografica orizzontale.

Allo stato attuale, la pericolosità sismica su reticolo di riferimento nell'intervallo di riferimento è fornita dai dati pubblicati sul sito http://esse1.mi.ingv.it/. Per punti non coincidenti con il reticolo di riferimento e periodi di ritorno non contemplati direttamente si opera come indicato nell' allegato alle NTC (rispettivamente media pesata e interpolazione).

L' azione sismica viene definita in relazione ad un periodo di riferimento Vr che si ricava, per ciascun tipo di costruzione, moltiplicandone la vita nominale per il coefficiente d'uso (vedi tabella Parametri della struttura). Fissato il periodo di riferimento Vr e la probabilità di superamento Pver associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno Tr e i relativi parametri di pericolosità sismica (vedi tabella successiva):

ag: accelerazione orizzontale massima del terreno;

Fo: valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T*c: periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

14.1.1. Parametri della struttura

Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]	Tipo di suolo	Categoria topografica
IV	50.0	2.0	100.0	B	T1

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente S = Ss*St (3.2.3)

Fo è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale

Fv è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno ag su sito di riferimento rigido orizzontale

Tb è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante.

Tc è il periodo corrispondente all'inizio del tratto dello spettro a velocità costante.

Td è il periodo corrispondente all'inizio del tratto dello spettro a spostamento costante.

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	8.779	40.265	

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	60.0	0.025	2.680	0.300
SLD	63.0	101.0	0.031	2.730	0.310
SLV	10.0	949.0	0.060	2.970	0.370
SLC	5.0	1950.0	0.071	3.060	0.390

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.025	1.200	2.680	0.577	0.140	0.420	1.702
SLD	0.031	1.200	2.730	0.653	0.144	0.431	1.726
SLV	0.060	1.200	2.970	0.981	0.166	0.497	1.840
SLC	0.071	1.200	3.060	1.098	0.173	0.518	1.883

15. RISULTATI ANALISI SISMICHE

15.1. LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

9. Esk caso di carico sismico con analisi statica equivalente

10. Edk caso di carico sismico con analisi dinamica

Ciascun caso di carico è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva (si rimanda al capitolo relativo ai casi di carico per chiarimenti inerenti questo aspetto).

Nella colonna Note, in funzione della norma in uso sono riportati i parametri fondamentali che caratterizzano l' azione sismica: in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	Angolo di ingresso dell'azione sismica orizzontale
Fattore di importanza	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
Zona sismica	Zona sismica
Accelerazione ag	Accelerazione orizzontale massima sul suolo
Categoria suolo	Categoria di profilo stratigrafico del suolo di fondazione
Fattore q	Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale
Fattore di sito S	Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD	Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa
Fattore riduz. SLD	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	Periodo proprio di vibrazione della struttura
Coefficiente Lambda	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata	Valore dell' ordinata dello spettro in uso nel tratto costante

spettro S (Tb-Tc)	
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

Per ciascun caso di carico sismico viene riportato l'insieme di dati sotto riportati (le masse sono espresse in unità di forza):

a) **analisi sismica statica equivalente**:
- quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
- azione sismica complessiva

b) **analisi sismica dinamica con spettro di risposta**:
- quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo) **,** indici di regolarità e/r secondo EC8 4.2.3.2
- frequenza, periodo, accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
- massa complessiva ed aliquota di massa complessiva eccitata.

Per ciascuna combinazione sismica definita SLD o SLO viene riportato il livello di deformazione etaT (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità 1000*etaT/h da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

Qualora si applichi il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") l'analisi sismica dinamica può essere comprensiva di sollecitazione verticale contemporanea a quella orizzontale, nel qual caso è effettuata una sovrapposizione degli effetti in ragione della radice dei quadrati degli effetti stessi. Per ciascuna combinazione sismica - analisi effettuate con il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") - viene riportato il livello di deformazione etaT, etaP e etaD degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità 1000*etaT/h da confrontare direttamente con il valore 2 o 4 per la verifica.

Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo la circolare n.7/2019 del C.S.LL.PP nelle combinazioni in SLC come previsto dal DM 17-01-2018. Per ogni combinazione è riportato il codice di verifica ed i valori utilizzati per la verifica: spostamento dE, area ridotta e dimensione A2, azione verticale, deformazioni di taglio dell'elastomero e tensioni nell'acciaio.

Qualora si applichi l'Ordinanza 3274 e s.m.i. le verifiche sono eseguite in accordo con l'allegato 10.A.

In particolare la tabella, per ogni combinazione di calcolo, riporta:

Nodo	Nodo di appoggio dell' isolatore
Cmb	Combinazione oggetto della verifica
Verif.	Codice di verifica ok – verifica positiva , NV – verifica negativa, ND – verifica non completata
dE	Spostamento relativo tra le due facce (amplificato del 20% per Ordinanza 3274 e smi) combinato con la regola del 30%
Ang fi	Angolo utilizzato per il calcolo dell' area ridotta Ar (per dispositivi circolari)
V	Azione verticale agente

Ar	Area ridotta efficace
Dim A2	Dimensione utile per il calcolo della deformazione per rotazione
Sig s	Tensione nell' inserto in acciaio
Gam c(a,s,t)	Deformazioni di taglio dell' elestomero
Vcr	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

1) V > 0
2) Sig s < fyk
3) Gam t < 5
4) Gam s < Gam * (caratteristica dell' elastomero)
5) Gam s < 2
6) V < 0.5 Vcr

Con riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
23	DM 2008: SPETTRO
29	SISMICA 1000/H, SOMMA V, EFFETTO P-δ
30	ANALISI DI UN EDIFICIO CON ISOLATORI SISMICI
70	MASSE SISMICHE
75	PROGETTO DI ISOLATORI ELASTOMERICI
76	VERIFICA DI ISOLATORI ELASTOMERICI
77	VERIFICA DI ISOLATORI FRICTION PENDULUM

Calcolo dei fattori di comportamento secondo il D.M. 17/01/2018

La costruzione, nuova, è caratterizzata da regolarità sia in pianta sia in altezza ed è progettata in classe di duttilità media (CD"B").

Parametri fattore in direzione x e y

Sistema costruttivo: calcestruzzo
Tipologia strutturale: strutture a telaio, a pareti accoppiate, miste
Definizione rapporto α_u/α_1: valore come da normativa
Riferimento normativo α_u/α_1: strutture a telaio di un piano
Valore rapporto α_u/α_1 = 1.100
Valore base fattore $q_0 = 3.000$ α_u/α_1 = 3.300
Fattore pareti k_w = 1.000
Fattore di regolarità K_R = 1.0
Fattore dissipativo $q_D = q_0 \cdot k_w \cdot K_R$ = 3.300

Fattori di comportamento utilizzati

	Dissipativi
q SLU x	3.300
q SLU y	3.300
q SLU z	1.500

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.065 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.194 sec.
			fattore q: 3.300
			fattore per spost. mu d: 6.878
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	9.186e+04	1523.46	314.99	0.0	-31.50	1620.00	314.99	1.471	0.090	0.0
Risulta	9.186e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.469	0.224	0.065	3.41	3.72e-03	7.173e+04	78.1	2.54e-05	0.0	0.0	0.0
2	5.142	0.194	0.065	8.653e+04	94.2	18.47	2.01e-02	5.61e-03	6.11e-06	0.0	0.0
3	5.179	0.193	0.065	20.44	2.23e-02	1.258e+04	13.7	1.35e-04	0.0	0.0	0.0
4	6.222	0.161	0.065	4633.52	5.0	7.25	7.89e-03	5.69e-04	0.0	0.0	0.0
5	7.098	0.141	0.066	1.54	1.68e-03	7358.63	8.0	9.57e-05	0.0	0.0	0.0
6	10.430	0.096	0.068	607.08	0.7	1.68	1.83e-03	0.88	9.55e-04	0.0	0.0
7	11.896	0.084	0.068	4.42	4.81e-03	0.04	4.76e-05	4676.03	5.1	0.0	0.0
8	16.555	0.060	0.069	14.60	1.59e-02	0.28	3.06e-04	7386.42	8.0	0.0	0.0
9	25.940	0.039	0.070	0.48	5.27e-04	0.03	3.02e-05	7.767e+04	84.6	0.0	0.0
Risulta				9.181e+04		9.170e+04		8.974e+04			
In percentuale				99.95		99.83		97.69			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.065 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa

CDC	Tipo	Sigla Id	Note
			periodo proprio T1: 0.194 sec.
			fattore q: 3.300
			fattore per spost. mu d: 6.882
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	9.186e+04	1523.46	314.99	0.0	31.50	1620.00	314.99	1.471	0.090	0.0
Risulta	9.186e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.469	0.224	0.065	3.72	4.05e-03	7.173e+04	78.1	3.33e-05	0.0	0.0	0.0
2	5.146	0.194	0.065	8.661e+04	94.3	56.24	6.12e-02	5.26e-03	5.73e-06	0.0	0.0
3	5.179	0.193	0.065	167.37	0.2	1.255e+04	13.7	2.58e-04	0.0	0.0	0.0
4	6.216	0.161	0.065	4400.90	4.8	5.07	5.52e-03	9.10e-04	0.0	0.0	0.0
5	7.098	0.141	0.066	1.89	2.06e-03	7359.57	8.0	1.07e-04	0.0	0.0	0.0
6	10.439	0.096	0.068	606.02	0.7	1.28	1.39e-03	1.15	1.25e-03	0.0	0.0
7	11.897	0.084	0.068	3.92	4.26e-03	0.02	1.82e-05	4678.79	5.1	0.0	0.0
8	16.563	0.060	0.069	13.50	1.47e-02	0.20	2.20e-04	7397.77	8.1	0.0	0.0
9	25.942	0.039	0.070	0.43	4.67e-04	0.02	2.28e-05	7.766e+04	84.5	0.0	0.0
Risulta				9.181e+04		9.170e+04		8.974e+04			
In percentuale				99.95		99.83		97.69			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.065 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.222 sec.
			fattore q: 3.300
			fattore per spost. mu d: 6.149
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	9.186e+04	1523.46	314.99	150.00	0.0	1620.00	314.99	1.471	0.090	0.0
Risulta	9.186e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.505	0.222	0.065	2.23e-03	2.43e-06	7.530e+04	82.0	9.15e-05	0.0	0.0	0.0
2	5.205	0.192	0.065	9.121e+04	99.3	0.05	5.22e-05	5.86e-03	6.38e-06	0.0	0.0
3	5.373	0.186	0.065	0.29	3.12e-04	1.196e+04	13.0	1.41e-06	0.0	0.0	0.0
4	7.804	0.128	0.066	0.10	1.05e-04	4441.42	4.8	5.59e-03	6.09e-06	0.0	0.0
5	9.724	0.103	0.067	370.85	0.4	2.23	2.42e-03	0.08	8.21e-05	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
6	11.873	0.084	0.068	40.56	4.42e-02	0.34	3.70e-04	4258.13	4.6	0.0	0.0
7	12.463	0.080	0.068	188.55	0.2	0.52	5.71e-04	509.95	0.6	0.0	0.0
8	16.582	0.060	0.069	6.48	7.05e-03	0.47	5.15e-04	7257.02	7.9	0.0	0.0
9	25.930	0.039	0.070	0.22	2.40e-04	0.07	7.35e-05	7.769e+04	84.6	0.0	0.0
Risulta				9.182e+04		9.171e+04		8.971e+04			
In percentuale				99.96		99.84		97.67			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.065 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.238 sec.
			fattore q: 3.300
			fattore per spost. mu d: 5.802
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	9.186e+04	1523.46	314.99	-150.00	0.0	1620.00	314.99	1.471	0.090	0.0
Risulta	9.186e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.201	0.238	0.065	3.11e-03	3.39e-06	5.723e+04	62.3	7.73e-06	0.0	0.0	0.0
2	5.063	0.198	0.065	0.31	3.38e-04	2.476e+04	27.0	1.05e-04	0.0	0.0	0.0
3	5.205	0.192	0.065	9.120e+04	99.3	0.07	7.84e-05	6.28e-03	6.84e-06	0.0	0.0
4	7.020	0.142	0.066	0.02	2.56e-05	9630.40	10.5	9.31e-04	1.01e-06	0.0	0.0
5	9.677	0.103	0.067	413.15	0.4	0.63	6.81e-04	0.03	3.41e-05	0.0	0.0
6	11.863	0.084	0.068	24.57	2.67e-02	1.31e-03	1.42e-06	4435.63	4.8	0.0	0.0
7	12.723	0.079	0.068	177.22	0.2	0.57	6.25e-04	321.56	0.4	0.0	0.0
8	16.692	0.060	0.069	6.46	7.03e-03	0.16	1.78e-04	7531.50	8.2	0.0	0.0
9	25.968	0.039	0.070	0.27	2.90e-04	0.02	2.11e-05	7.748e+04	84.3	0.0	0.0
Risulta				9.182e+04		9.162e+04		8.977e+04			
In percentuale				99.96		99.74		97.72			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.103 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.194 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	9.186e+04	1523.46	314.99	0.0	-31.50	1620.00	314.99	1.471	0.090	0.0
Risulta	9.186e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.469	0.224	0.103	3.41	3.72e-03	7.173e+04	78.1	2.54e-05	0.0	0.0	0.0
2	5.142	0.194	0.103	8.653e+04	94.2	18.47	2.01e-02	5.61e-03	6.11e-06	0.0	0.0
3	5.179	0.193	0.103	20.44	2.23e-02	1.258e+04	13.7	1.35e-04	0.0	0.0	0.0
4	6.222	0.161	0.103	4633.52	5.0	7.25	7.89e-03	5.69e-04	0.0	0.0	0.0
5	7.098	0.141	0.101	1.54	1.68e-03	7358.63	8.0	9.57e-05	0.0	0.0	0.0
6	10.430	0.096	0.081	607.08	0.7	1.68	1.83e-03	0.88	9.55e-04	0.0	0.0
7	11.896	0.084	0.076	4.42	4.81e-03	0.04	4.76e-05	4676.03	5.1	0.0	0.0
8	16.555	0.060	0.065	14.60	1.59e-02	0.28	3.06e-04	7386.42	8.0	0.0	0.0
9	25.940	0.039	0.055	0.48	5.27e-04	0.03	3.02e-05	7.767e+04	84.6	0.0	0.0
Risulta				9.181e+04		9.170e+04		8.974e+04			
In percentuale				99.95		99.83		97.69			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.103 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.194 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	9.186e+04	1523.46	314.99	0.0	31.50	1620.00	314.99	1.471	0.090	0.0
Risulta	9.186e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.469	0.224	0.103	3.72	4.05e-03	7.173e+04	78.1	3.33e-05	0.0	0.0	0.0
2	5.146	0.194	0.103	8.661e+04	94.3	56.24	6.12e-02	5.26e-03	5.73e-06	0.0	0.0
3	5.179	0.193	0.103	167.37	0.2	1.255e+04	13.7	2.58e-04	0.0	0.0	0.0
4	6.216	0.161	0.103	4400.90	4.8	5.07	5.52e-03	9.10e-04	0.0	0.0	0.0
5	7.098	0.141	0.101	1.89	2.06e-03	7359.57	8.0	1.07e-04	0.0	0.0	0.0
6	10.439	0.096	0.081	606.02	0.7	1.28	1.39e-03	1.15	1.25e-03	0.0	0.0
7	11.897	0.084	0.076	3.92	4.26e-03	0.02	1.82e-05	4678.79	5.1	0.0	0.0
8	16.563	0.060	0.065	13.50	1.47e-02	0.20	2.20e-04	7397.77	8.1	0.0	0.0
9	25.942	0.039	0.055	0.43	4.67e-04	0.02	2.28e-05	7.766e+04	84.5	0.0	0.0
Risulta				9.181e+04		9.170e+04		8.974e+04			
In percentuale				99.95		99.83		97.69			

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: B

CDC	Tipo	Sigla Id	Note
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.103 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.222 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	9.186e+04	1523.46	314.99	150.00	0.0	1620.00	314.99	1.471	0.090	0.0
Risulta	9.186e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.505	0.222	0.103	2.23e-03	2.43e-06	7.530e+04	82.0	9.15e-05	0.0	0.0	0.0
2	5.205	0.192	0.103	9.121e+04	99.3	0.05	5.22e-05	5.86e-03	6.38e-06	0.0	0.0
3	5.373	0.186	0.103	0.29	3.12e-04	1.196e+04	13.0	1.41e-06	0.0	0.0	0.0
4	7.804	0.128	0.096	0.10	1.05e-04	4441.42	4.8	5.59e-03	6.09e-06	0.0	0.0
5	9.724	0.103	0.084	370.85	0.4	2.23	2.42e-03	0.08	8.21e-05	0.0	0.0
6	11.873	0.084	0.076	40.56	4.42e-02	0.34	3.70e-04	4258.13	4.6	0.0	0.0
7	12.463	0.080	0.074	188.55	0.2	0.52	5.71e-04	509.95	0.6	0.0	0.0
8	16.582	0.060	0.065	6.48	7.05e-03	0.47	5.15e-04	7257.02	7.9	0.0	0.0
9	25.930	0.039	0.055	0.22	2.40e-04	0.07	7.35e-05	7.769e+04	84.6	0.0	0.0
Risulta				9.182e+04		9.171e+04		8.971e+04			
In percentuale				99.96		99.84		97.67			

CDC	Tipo	Sigla Id	Note
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.103 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.238 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	9.186e+04	1523.46	314.99	-150.00	0.0	1620.00	314.99	1.471	0.090	0.0
Risulta	9.186e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	4.201	0.238	0.103	3.11e-03	3.39e-06	5.723e+04	62.3	7.73e-06	0.0	0.0	0.0
2	5.063	0.198	0.103	0.31	3.38e-04	2.476e+04	27.0	1.05e-04	0.0	0.0	0.0
3	5.205	0.192	0.103	9.120e+04	99.3	0.07	7.84e-05	6.28e-03	6.84e-06	0.0	0.0
4	7.020	0.142	0.102	0.02	2.56e-05	9630.40	10.5	9.31e-04	1.01e-06	0.0	0.0
5	9.677	0.103	0.084	413.15	0.4	0.63	6.81e-04	0.03	3.41e-05	0.0	0.0
6	11.863	0.084	0.076	24.57	2.67e-02	1.31e-03	1.42e-06	4435.63	4.8	0.0	0.0
7	12.723	0.079	0.073	177.22	0.2	0.57	6.25e-04	321.56	0.4	0.0	0.0

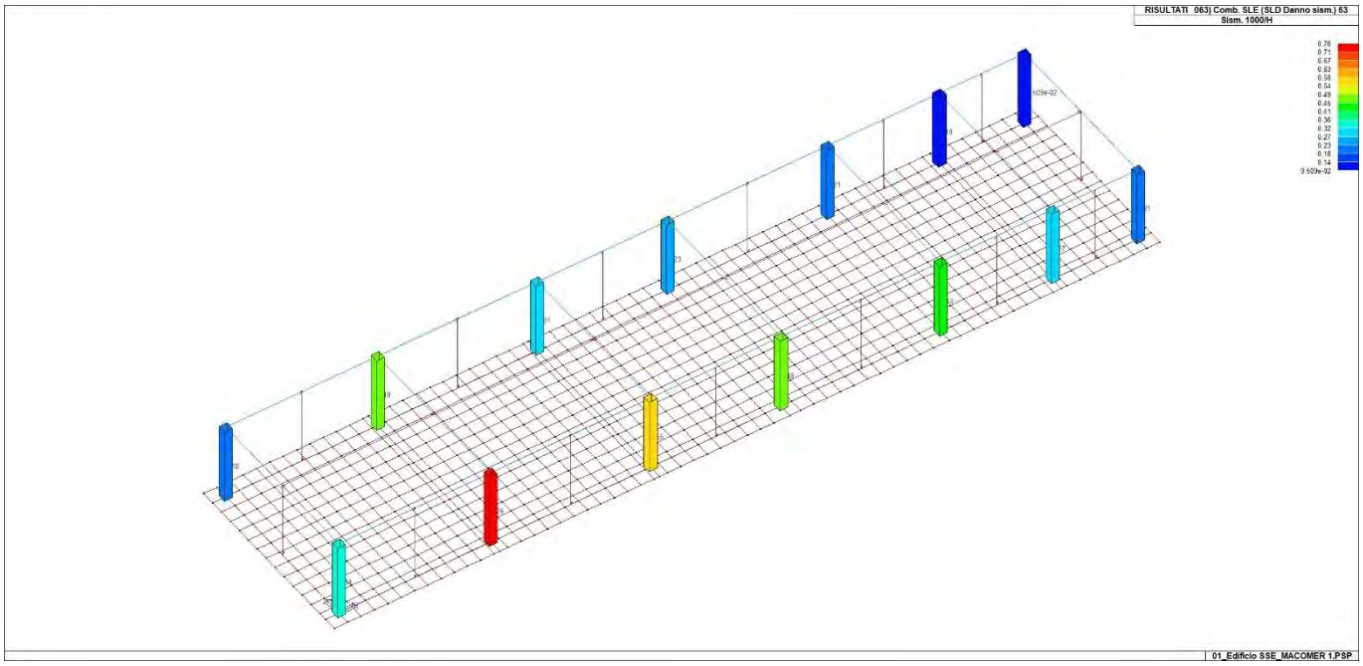
Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
8	16.692	0.060	0.065	6.46	7.03e-03	0.16	1.78e-04	7531.50	8.2	0.0	0.0
9	25.968	0.039	0.055	0.27	2.90e-04	0.02	2.11e-05	7.748e+04	84.3	0.0	0.0
Risulta				9.182e+04		9.162e+04		8.977e+04			
In percentuale				99.96		99.74		97.72			

Cmb	Pilas.	1000 etaT/h	etaT cm	inter. h cm	Pilas.	1000 etaT/h	etaT cm	inter. h cm	Pilas.	1000 etaT/h	etaT cm	inter. h cm
37	1	0.38	0.11	300.0	2	0.25	0.08	300.0	5	0.37	0.11	300.0
	6	0.23	0.07	300.0	7	0.24	0.07	300.0	8	0.22	0.07	300.0
	9	0.22	0.07	300.0	13	0.40	0.12	300.0	15	0.40	0.12	300.0
	16	0.44	0.13	300.0	17	0.41	0.12	300.0	18	0.23	0.07	300.0
	29	0.36	0.11	300.0	30	0.22	0.07	300.0				
38	1	0.37	0.11	300.0	2	0.28	0.08	300.0	5	0.34	0.10	300.0
	6	0.31	0.09	300.0	7	0.34	0.10	300.0	8	0.34	0.10	300.0
	9	0.27	0.08	300.0	13	0.35	0.10	300.0	15	0.35	0.10	300.0
	16	0.35	0.11	300.0	17	0.34	0.10	300.0	18	0.31	0.09	300.0
	29	0.34	0.10	300.0	30	0.23	0.07	300.0				
39	1	0.35	0.11	300.0	2	0.22	0.07	300.0	5	0.38	0.11	300.0
	6	0.23	0.07	300.0	7	0.22	0.07	300.0	8	0.23	0.07	300.0
	9	0.22	0.07	300.0	13	0.41	0.12	300.0	15	0.41	0.12	300.0
	16	0.42	0.13	300.0	17	0.44	0.13	300.0	18	0.23	0.07	300.0
	29	0.36	0.11	300.0	30	0.23	0.07	300.0				
40	1	0.34	0.10	300.0	2	0.22	0.07	300.0	5	0.34	0.10	300.0
	6	0.31	0.09	300.0	7	0.35	0.11	300.0	8	0.34	0.10	300.0
	9	0.28	0.08	300.0	13	0.35	0.11	300.0	15	0.35	0.10	300.0
	16	0.34	0.10	300.0	17	0.35	0.10	300.0	18	0.31	0.09	300.0
	29	0.35	0.10	300.0	30	0.27	0.08	300.0				
41	1	0.38	0.11	300.0	2	0.25	0.08	300.0	5	0.36	0.11	300.0
	6	0.23	0.07	300.0	7	0.23	0.07	300.0	8	0.22	0.07	300.0
	9	0.22	0.07	300.0	13	0.46	0.14	300.0	15	0.41	0.12	300.0
	16	0.41	0.12	300.0	17	0.38	0.12	300.0	18	0.24	0.07	300.0
	29	0.35	0.11	300.0	30	0.22	0.07	300.0				
42	1	0.37	0.11	300.0	2	0.30	0.09	300.0	5	0.34	0.10	300.0
	6	0.32	0.10	300.0	7	0.30	0.09	300.0	8	0.30	0.09	300.0
	9	0.25	0.08	300.0	13	0.35	0.11	300.0	15	0.35	0.10	300.0
	16	0.35	0.11	300.0	17	0.34	0.10	300.0	18	0.38	0.11	300.0
	29	0.34	0.10	300.0	30	0.22	0.07	300.0				
43	1	0.37	0.11	300.0	2	0.21	0.06	300.0	5	0.36	0.11	300.0
	6	0.23	0.07	300.0	7	0.22	0.07	300.0	8	0.23	0.07	300.0
	9	0.22	0.07	300.0	13	0.47	0.14	300.0	15	0.42	0.13	300.0
	16	0.40	0.12	300.0	17	0.40	0.12	300.0	18	0.23	0.07	300.0
	29	0.35	0.11	300.0	30	0.23	0.07	300.0				
44	1	0.33	0.10	300.0	2	0.24	0.07	300.0	5	0.34	0.10	300.0
	6	0.32	0.10	300.0	7	0.32	0.09	300.0	8	0.30	0.09	300.0
	9	0.26	0.08	300.0	13	0.35	0.10	300.0	15	0.35	0.10	300.0
	16	0.34	0.10	300.0	17	0.35	0.10	300.0	18	0.38	0.12	300.0
	29	0.34	0.10	300.0	30	0.26	0.08	300.0				
45	1	0.28	0.08	300.0	2	0.37	0.11	300.0	5	0.27	0.08	300.0
	6	0.34	0.10	300.0	7	0.35	0.11	300.0	8	0.34	0.10	300.0
	9	0.34	0.10	300.0	13	0.31	0.09	300.0	15	0.31	0.09	300.0
	16	0.34	0.10	300.0	17	0.34	0.10	300.0	18	0.34	0.10	300.0
	29	0.23	0.07	300.0	30	0.34	0.10	300.0				
46	1	0.25	0.08	300.0	2	0.37	0.11	300.0	5	0.23	0.07	300.0
	6	0.40	0.12	300.0	7	0.44	0.13	300.0	8	0.41	0.12	300.0
	9	0.37	0.11	300.0	13	0.23	0.07	300.0	15	0.23	0.07	300.0
	16	0.24	0.07	300.0	17	0.23	0.07	300.0	18	0.40	0.12	300.0
	29	0.23	0.07	300.0	30	0.36	0.11	300.0				
47	1	0.22	0.07	300.0	2	0.34	0.10	300.0	5	0.28	0.08	300.0
	6	0.35	0.10	300.0	7	0.34	0.10	300.0	8	0.35	0.10	300.0
	9	0.34	0.10	300.0	13	0.31	0.09	300.0	15	0.31	0.09	300.0
	16	0.35	0.11	300.0	17	0.34	0.10	300.0	18	0.35	0.10	300.0
	29	0.27	0.08	300.0	30	0.34	0.10	300.0				
48	1	0.22	0.07	300.0	2	0.35	0.11	300.0	5	0.22	0.07	300.0
	6	0.41	0.12	300.0	7	0.42	0.13	300.0	8	0.43	0.13	300.0
	9	0.37	0.11	300.0	13	0.23	0.07	300.0	15	0.23	0.07	300.0
	16	0.22	0.07	300.0	17	0.24	0.07	300.0	18	0.41	0.12	300.0
	29	0.23	0.07	300.0	30	0.35	0.11	300.0				
49	1	0.30	0.09	300.0	2	0.37	0.11	300.0	5	0.25	0.08	300.0
	6	0.34	0.10	300.0	7	0.35	0.11	300.0	8	0.34	0.10	300.0

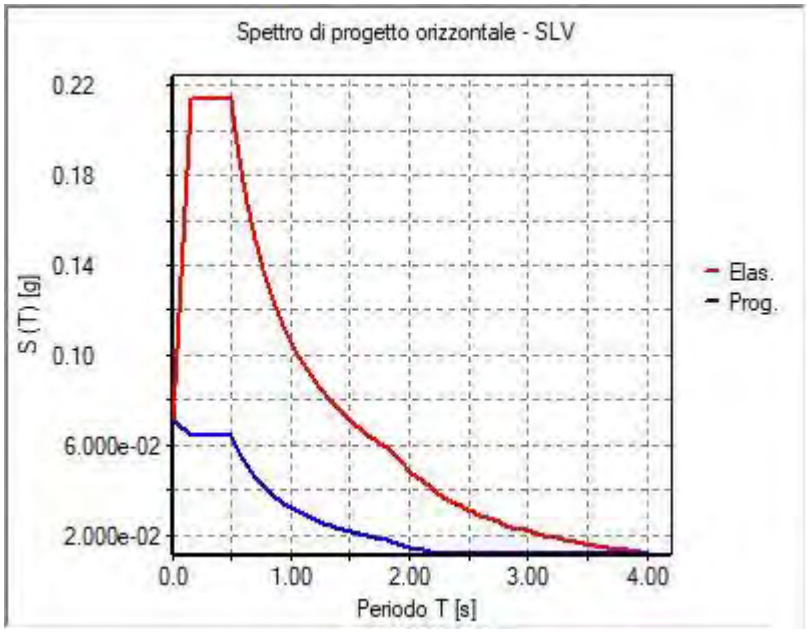
	9	0.34	0.10	300.0	13	0.38	0.11	300.0	15	0.32	0.10	300.0
	16	0.30	0.09	300.0	17	0.30	0.09	300.0	18	0.35	0.11	300.0
	29	0.23	0.07	300.0	30	0.34	0.10	300.0				
50	1	0.25	0.08	300.0	2	0.38	0.11	300.0	5	0.23	0.07	300.0
	6	0.41	0.12	300.0	7	0.41	0.12	300.0	8	0.38	0.11	300.0
	9	0.36	0.11	300.0	13	0.24	0.07	300.0	15	0.23	0.07	300.0
	16	0.24	0.07	300.0	17	0.22	0.07	300.0	18	0.45	0.14	300.0
	29	0.22	0.07	300.0	30	0.35	0.11	300.0				
51	1	0.24	0.07	300.0	2	0.33	0.10	300.0	5	0.26	0.08	300.0
	6	0.35	0.10	300.0	7	0.34	0.10	300.0	8	0.35	0.10	300.0
	9	0.34	0.10	300.0	13	0.39	0.12	300.0	15	0.32	0.10	300.0
	16	0.32	0.09	300.0	17	0.30	0.09	300.0	18	0.35	0.10	300.0
	29	0.26	0.08	300.0	30	0.34	0.10	300.0				
52	1	0.22	0.06	300.0	2	0.37	0.11	300.0	5	0.23	0.07	300.0
	6	0.42	0.13	300.0	7	0.40	0.12	300.0	8	0.40	0.12	300.0
	9	0.36	0.11	300.0	13	0.23	0.07	300.0	15	0.23	0.07	300.0
	16	0.22	0.07	300.0	17	0.23	0.07	300.0	18	0.47	0.14	300.0
	29	0.23	0.07	300.0	30	0.35	0.11	300.0				
53	1	0.22	0.07	300.0	2	0.09	0.03	300.0	5	0.38	0.11	300.0
	6	0.26	0.08	300.0	7	0.39	0.12	300.0	8	0.37	0.11	300.0
	9	0.20	0.06	300.0	13	0.45	0.14	300.0	15	0.49	0.15	300.0
	16	0.64	0.19	300.0	17	0.61	0.18	300.0	18	0.19	0.06	300.0
	29	0.26	0.08	300.0	30	0.14	0.04	300.0				
54	1	0.13	0.04	300.0	2	0.22	0.06	300.0	5	0.22	0.07	300.0
	6	0.49	0.15	300.0	7	0.63	0.19	300.0	8	0.61	0.18	300.0
	9	0.38	0.11	300.0	13	0.20	0.06	300.0	15	0.27	0.08	300.0
	16	0.40	0.12	300.0	17	0.39	0.12	300.0	18	0.45	0.13	300.0
	29	0.15	0.04	300.0	30	0.23	0.07	300.0				
55	1	0.21	0.06	300.0	2	0.08	0.02	300.0	5	0.39	0.12	300.0
	6	0.26	0.08	300.0	7	0.38	0.11	300.0	8	0.38	0.11	300.0
	9	0.20	0.06	300.0	13	0.46	0.14	300.0	15	0.50	0.15	300.0
	16	0.63	0.19	300.0	17	0.62	0.19	300.0	18	0.19	0.06	300.0
	29	0.25	0.07	300.0	30	0.13	0.04	300.0				
56	1	0.10	0.03	300.0	2	0.18	0.06	300.0	5	0.21	0.06	300.0
	6	0.49	0.15	300.0	7	0.63	0.19	300.0	8	0.61	0.18	300.0
	9	0.38	0.11	300.0	13	0.21	0.06	300.0	15	0.27	0.08	300.0
	16	0.40	0.12	300.0	17	0.38	0.11	300.0	18	0.45	0.13	300.0
	29	0.16	0.05	300.0	30	0.25	0.08	300.0				
57	1	0.21	0.06	300.0	2	0.13	0.04	300.0	5	0.38	0.11	300.0
	6	0.27	0.08	300.0	7	0.39	0.12	300.0	8	0.39	0.12	300.0
	9	0.22	0.07	300.0	13	0.45	0.13	300.0	15	0.49	0.15	300.0
	16	0.63	0.19	300.0	17	0.61	0.18	300.0	18	0.20	0.06	300.0
	29	0.23	0.07	300.0	30	0.15	0.04	300.0				
58	1	0.09	0.03	300.0	2	0.22	0.07	300.0	5	0.20	0.06	300.0
	6	0.49	0.15	300.0	7	0.64	0.19	300.0	8	0.61	0.18	300.0
	9	0.38	0.11	300.0	13	0.19	0.06	300.0	15	0.26	0.08	300.0
	16	0.39	0.12	300.0	17	0.38	0.11	300.0	18	0.45	0.14	300.0
	29	0.14	0.04	300.0	30	0.26	0.08	300.0				
59	1	0.18	0.06	300.0	2	0.10	0.03	300.0	5	0.38	0.11	300.0
	6	0.27	0.08	300.0	7	0.40	0.12	300.0	8	0.38	0.11	300.0
	9	0.21	0.06	300.0	13	0.45	0.13	300.0	15	0.49	0.15	300.0
	16	0.63	0.19	300.0	17	0.61	0.18	300.0	18	0.21	0.06	300.0
	29	0.25	0.08	300.0	30	0.16	0.05	300.0				
60	1	0.08	0.02	300.0	2	0.21	0.06	300.0	5	0.20	0.06	300.0
	6	0.50	0.15	300.0	7	0.63	0.19	300.0	8	0.62	0.19	300.0
	9	0.39	0.12	300.0	13	0.19	0.06	300.0	15	0.26	0.08	300.0
	16	0.38	0.11	300.0	17	0.38	0.11	300.0	18	0.46	0.14	300.0
	29	0.13	0.04	300.0	30	0.25	0.07	300.0				
61	1	0.33	0.10	300.0	2	0.19	0.06	300.0	5	0.27	0.08	300.0
	6	0.31	0.09	300.0	7	0.24	0.07	300.0	8	0.20	0.06	300.0
	9	0.10	0.03	300.0	13	0.76	0.23	300.0	15	0.54	0.16	300.0
	16	0.48	0.14	300.0	17	0.43	0.13	300.0	18	0.48	0.15	300.0
	29	0.22	0.06	300.0	30	0.11	0.03	300.0				
62	1	0.22	0.07	300.0	2	0.34	0.10	300.0	5	0.13	0.04	300.0
	6	0.54	0.16	300.0	7	0.47	0.14	300.0	8	0.43	0.13	300.0
	9	0.26	0.08	300.0	13	0.49	0.15	300.0	15	0.32	0.10	300.0
	16	0.25	0.07	300.0	17	0.22	0.07	300.0	18	0.75	0.23	300.0
	29	0.12	0.04	300.0	30	0.19	0.06	300.0				
63	1	0.34	0.10	300.0	2	0.18	0.06	300.0	5	0.27	0.08	300.0
	6	0.31	0.09	300.0	7	0.23	0.07	300.0	8	0.21	0.06	300.0
	9	0.10	0.03	300.0	13	0.76	0.23	300.0	15	0.55	0.16	300.0
	16	0.48	0.14	300.0	17	0.44	0.13	300.0	18	0.48	0.14	300.0
	29	0.21	0.06	300.0	30	0.10	0.03	300.0				
64	1	0.19	0.06	300.0	2	0.32	0.10	300.0	5	0.12	0.04	300.0
	6	0.54	0.16	300.0	7	0.48	0.14	300.0	8	0.43	0.13	300.0
	9	0.26	0.08	300.0	13	0.49	0.15	300.0	15	0.31	0.09	300.0

	16	0.25	0.07	300.0	17	0.22	0.06	300.0	18	0.76	0.23	300.0
	29	0.13	0.04	300.0	30	0.21	0.06	300.0				
65	1	0.34	0.10	300.0	2	0.22	0.07	300.0	5	0.26	0.08	300.0
	6	0.32	0.10	300.0	7	0.25	0.07	300.0	8	0.22	0.07	300.0
	9	0.13	0.04	300.0	13	0.75	0.23	300.0	15	0.54	0.16	300.0
	16	0.47	0.14	300.0	17	0.43	0.13	300.0	18	0.49	0.15	300.0
	29	0.19	0.06	300.0	30	0.12	0.04	300.0				
66	1	0.19	0.06	300.0	2	0.33	0.10	300.0	5	0.10	0.03	300.0
	6	0.54	0.16	300.0	7	0.48	0.14	300.0	8	0.43	0.13	300.0
	9	0.27	0.08	300.0	13	0.48	0.15	300.0	15	0.30	0.09	300.0
	16	0.24	0.07	300.0	17	0.20	0.06	300.0	18	0.76	0.23	300.0
	29	0.11	0.03	300.0	30	0.22	0.07	300.0				
67	1	0.32	0.10	300.0	2	0.18	0.06	300.0	5	0.26	0.08	300.0
	6	0.31	0.09	300.0	7	0.25	0.07	300.0	8	0.22	0.06	300.0
	9	0.12	0.04	300.0	13	0.76	0.23	300.0	15	0.54	0.16	300.0
	16	0.48	0.14	300.0	17	0.43	0.13	300.0	18	0.49	0.15	300.0
	29	0.21	0.06	300.0	30	0.13	0.04	300.0				
68	1	0.19	0.06	300.0	2	0.34	0.10	300.0	5	0.10	0.03	300.0
	6	0.55	0.16	300.0	7	0.48	0.14	300.0	8	0.44	0.13	300.0
	9	0.27	0.08	300.0	13	0.48	0.14	300.0	15	0.31	0.09	300.0
	16	0.23	0.07	300.0	17	0.21	0.06	300.0	18	0.76	0.23	300.0
	29	0.10	0.03	300.0	30	0.21	0.06	300.0				

Cmb	**1000 etaT/h**
	0.76



31_RIS_SLE_063_Comb. SLE (SLD Danno sism.) 63



31_RIS_SPETTRI_PROGETTO_SLV_O

16. RISULTATI NODALI

16.1. LEGENDA RISULTATI NODALI

Il controllo dei risultati delle analisi condotte, per quanto concerne i nodi strutturali, è possibile in relazione alle tabelle sottoriportate.

Una prima tabella riporta infatti per ogni nodo e per ogni combinazione (o caso di carico) gli spostamenti nodali.

Una seconda tabella riporta per ogni nodo a cui sia associato un vincolo rigido e/o elastico o una fondazione speciale e per ogni combinazione (o caso di carico) i valori delle azioni esercitate dalla struttura sui vincoli (reazioni vincolari cambiate di segno).

Una terza tabella, infine riassume per ogni nodo le sei combinazioni in cui si attingono i valori minimi e massimi della reazione Fz, della reazione Mx e della reazione My.

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		cm	cm	cm			
1	2	-2.48e-03	-5.21e-03	-0.10	2.59e-04	-1.27e-04	4.36e-06
1	8	-4.76e-03	-3.23e-03	-0.07	1.74e-04	-1.21e-04	2.48e-06
1	12	-4.60e-03	-3.83e-03	-0.07	1.78e-04	-1.22e-04	2.60e-06
1	36	-2.20e-03	-6.78e-03	-0.07	1.91e-04	-9.60e-05	4.18e-06
1	40	-6.59e-03	-3.19e-03	-0.07	1.80e-04	-1.43e-04	2.36e-06
1	44	-6.34e-03	-4.15e-03	-0.08	1.86e-04	-1.43e-04	2.55e-06
1	68	-2.51e-03	-8.84e-03	-0.07	2.07e-04	-1.02e-04	5.07e-06
1	70	-1.88e-03	-3.91e-03	-0.07	1.94e-04	-9.56e-05	3.26e-06
1	72	-1.71e-03	-3.41e-03	-0.07	1.70e-04	-8.71e-05	2.79e-06
2	1	4.63e-03	0.02	-0.09	-1.19e-03	2.20e-04	2.04e-06
2	2	4.26e-03	0.03	-0.10	-1.51e-03	2.32e-04	2.74e-06
2	10	0.07	-9.97e-04	-0.07	-8.76e-04	2.90e-04	-6.78e-05
2	12	-0.07	8.58e-03	-0.08	-8.93e-04	5.04e-05	2.60e-05
2	33	0.02	0.07	-0.07	-9.97e-04	1.90e-04	5.17e-05
2	42	0.11	-0.01	-0.07	-8.56e-04	3.61e-04	-1.06e-04
2	44	-0.11	2.61e-03	-0.08	-8.83e-04	-1.95e-05	3.81e-05
2	65	0.02	0.10	-0.07	-1.05e-03	2.03e-04	8.16e-05
2	69	3.56e-03	0.02	-0.07	-9.11e-04	1.69e-04	1.57e-06
2	70	3.32e-03	0.02	-0.08	-1.13e-03	1.77e-04	2.03e-06
2	71	3.56e-03	0.02	-0.07	-9.11e-04	1.69e-04	1.57e-06
2	72	3.51e-03	0.02	-0.07	-9.54e-04	1.70e-04	1.66e-06
3	2	-2.40e-03	5.15e-03	-0.10	-2.57e-04	-1.24e-04	-2.19e-06
3	15	-4.67e-03	3.18e-03	-0.07	-1.72e-04	-1.18e-04	0.0
3	19	-4.51e-03	3.78e-03	-0.07	-1.76e-04	-1.19e-04	0.0
3	31	-2.12e-03	6.73e-03	-0.07	-1.89e-04	-9.38e-05	-2.29e-06
3	47	-6.48e-03	3.14e-03	-0.07	-1.77e-04	-1.39e-04	0.0
3	51	-6.22e-03	4.10e-03	-0.07	-1.84e-04	-1.39e-04	0.0
3	63	-2.42e-03	8.78e-03	-0.07	-2.05e-04	-1.00e-04	-2.89e-06
3	70	-1.81e-03	3.86e-03	-0.07	-1.93e-04	-9.37e-05	-1.62e-06
3	72	-1.65e-03	3.36e-03	-0.07	-1.68e-04	-8.54e-05	-1.34e-06
4	1	4.65e-03	-0.02	-0.09	1.19e-03	2.19e-04	-1.49e-06
4	2	4.28e-03	-0.03	-0.10	1.51e-03	2.31e-04	-2.06e-06
4	17	0.07	8.27e-04	-0.07	8.76e-04	2.89e-04	6.86e-05
4	19	-0.07	-8.95e-03	-0.08	8.94e-04	5.02e-05	-2.58e-05
4	36	-0.02	-0.07	-0.07	1.00e-03	1.28e-04	-9.04e-05
4	49	0.11	0.01	-0.07	8.56e-04	3.61e-04	1.07e-04
4	51	-0.11	-3.03e-03	-0.08	8.83e-04	-1.97e-05	-3.81e-05
4	68	-0.03	-0.10	-0.07	1.05e-03	1.05e-04	-1.42e-04
4	69	3.57e-03	-0.02	-0.07	9.11e-04	1.69e-04	-1.15e-06
4	70	3.33e-03	-0.02	-0.08	1.13e-03	1.76e-04	-1.53e-06
4	71	3.57e-03	-0.02	-0.07	9.11e-04	1.69e-04	-1.15e-06
4	72	3.53e-03	-0.02	-0.07	9.54e-04	1.70e-04	-1.22e-06
5	2	-1.78e-03	0.06	-0.11	-2.64e-03	-5.87e-05	0.0
5	11	-0.07	0.06	-0.07	-1.58e-03	-1.06e-04	-3.47e-05
5	32	-0.02	-0.05	-0.08	-1.39e-03	-6.01e-05	6.95e-05

5	33	0.01	0.11	-0.07	-1.68e-03	-3.14e-05	-7.84e-05
5	43	-0.11	0.07	-0.07	-1.61e-03	-1.44e-04	-5.50e-05
5	64	-0.03	-0.10	-0.08	-1.31e-03	-7.04e-05	1.11e-04
5	65	0.02	0.16	-0.07	-1.76e-03	-2.47e-05	-1.25e-04
5	70	-1.30e-03	0.04	-0.08	-1.96e-03	-4.48e-05	0.0
5	72	-9.47e-04	0.03	-0.08	-1.62e-03	-4.30e-05	0.0
6	2	-7.81e-04	-0.06	-0.12	3.06e-03	-1.59e-05	0.0
6	20	-0.07	-0.07	-0.08	1.83e-03	-7.57e-05	1.84e-05
6	32	-0.02	-0.16	-0.08	1.97e-03	-2.41e-05	-2.43e-05
6	33	0.02	0.08	-0.08	1.57e-03	4.45e-06	1.89e-05
6	52	-0.11	-0.10	-0.08	1.87e-03	-1.13e-04	2.93e-05
6	64	-0.02	-0.23	-0.07	2.09e-03	-3.05e-05	-3.85e-05
6	65	0.03	0.15	-0.09	1.45e-03	1.48e-05	3.02e-05
6	70	-5.41e-04	-0.05	-0.09	2.27e-03	-1.23e-05	0.0
6	72	-2.39e-04	-0.04	-0.08	1.87e-03	-1.29e-05	0.0
7	2	-2.41e-03	0.05	-0.11	-2.62e-03	-7.99e-05	0.0
7	11	-0.07	0.05	-0.08	-1.56e-03	-1.19e-04	-2.69e-05
7	23	-0.02	0.13	-0.07	-1.69e-03	-7.75e-05	-6.70e-05
7	24	-0.02	-0.06	-0.08	-1.36e-03	-7.56e-05	5.92e-05
7	43	-0.11	0.06	-0.08	-1.58e-03	-1.54e-04	-4.23e-05
7	55	-0.04	0.18	-0.07	-1.79e-03	-8.88e-05	-1.06e-04
7	56	-0.03	-0.12	-0.08	-1.26e-03	-8.59e-05	9.45e-05
7	70	-1.78e-03	0.04	-0.09	-1.95e-03	-6.10e-05	0.0
7	72	-1.40e-03	0.03	-0.08	-1.61e-03	-5.88e-05	0.0
8	1	1.30e-03	0.04	-0.10	-2.07e-03	6.75e-05	0.0
8	2	7.30e-04	0.06	-0.11	-2.73e-03	6.96e-05	0.0
8	10	0.07	0.01	-0.08	-1.56e-03	1.17e-04	2.93e-05
8	22	0.02	-0.06	-0.08	-1.42e-03	7.32e-05	-3.29e-05
8	27	-0.01	0.13	-0.07	-1.76e-03	3.71e-05	4.03e-05
8	42	0.11	3.99e-03	-0.08	-1.54e-03	1.55e-04	4.66e-05
8	54	0.04	-0.12	-0.08	-1.32e-03	8.57e-05	-5.23e-05
8	59	-0.02	0.19	-0.07	-1.86e-03	2.84e-05	6.40e-05
8	69	1.00e-03	0.03	-0.08	-1.59e-03	5.19e-05	0.0
8	70	6.19e-04	0.04	-0.09	-2.03e-03	5.33e-05	0.0
8	71	1.00e-03	0.03	-0.08	-1.59e-03	5.19e-05	0.0
8	72	9.25e-04	0.03	-0.08	-1.68e-03	5.22e-05	0.0
9	1	1.37e-04	-4.48e-03	-0.09	2.26e-04	2.03e-06	0.0
9	2	9.75e-05	-5.52e-03	-0.09	2.79e-04	-1.20e-06	-1.26e-06
9	10	2.99e-03	-3.49e-03	-0.07	1.78e-04	2.28e-05	0.0
9	24	-8.22e-04	-6.47e-03	-0.07	1.99e-04	-3.06e-06	-1.54e-06
9	42	4.69e-03	-3.52e-03	-0.07	1.80e-04	3.53e-05	1.22e-06
9	56	-1.37e-03	-8.26e-03	-0.07	2.14e-04	-5.83e-06	-2.00e-06
9	69	1.05e-04	-3.44e-03	-0.07	1.73e-04	1.53e-06	0.0
9	70	7.85e-05	-4.13e-03	-0.07	2.09e-04	0.0	0.0
9	71	1.05e-04	-3.44e-03	-0.07	1.73e-04	1.53e-06	0.0
9	72	9.98e-05	-3.57e-03	-0.07	1.81e-04	1.10e-06	0.0
10	2	-1.76e-03	-0.05	-0.11	2.64e-03	-5.86e-05	0.0
10	20	-0.07	-0.06	-0.07	1.58e-03	-1.05e-04	3.42e-05
10	35	-0.02	0.05	-0.08	1.39e-03	-6.34e-05	-6.96e-05
10	36	-0.02	-0.11	-0.07	1.68e-03	-5.97e-05	7.69e-05
10	52	-0.11	-0.07	-0.07	1.61e-03	-1.42e-04	5.43e-05
10	67	-0.03	0.10	-0.08	1.31e-03	-7.57e-05	-1.11e-04
10	68	-0.04	-0.16	-0.07	1.77e-03	-6.98e-05	1.22e-04
10	70	-1.28e-03	-0.04	-0.08	1.96e-03	-4.48e-05	0.0
10	72	-9.32e-04	-0.03	-0.08	1.62e-03	-4.30e-05	0.0
11	2	3.72e-04	6.26e-03	-0.10	-3.16e-04	1.81e-05	-1.97e-06
11	17	2.94e-03	4.65e-03	-0.07	-2.01e-04	2.90e-05	-2.71e-06
11	31	-1.20e-04	6.40e-03	-0.07	-2.25e-04	9.61e-06	-2.55e-06
11	35	-1.94e-04	6.35e-03	-0.07	-2.25e-04	7.89e-06	-2.36e-06
11	49	4.53e-03	5.15e-03	-0.07	-2.06e-04	3.93e-05	-3.62e-06
11	63	-3.32e-04	7.93e-03	-0.07	-2.44e-04	8.40e-06	-3.36e-06
11	67	-4.49e-04	7.85e-03	-0.07	-2.44e-04	5.66e-06	-3.06e-06
11	70	2.79e-04	4.67e-03	-0.07	-2.36e-04	1.36e-05	-1.47e-06
11	72	2.46e-04	3.98e-03	-0.07	-2.01e-04	1.20e-05	-1.23e-06
12	2	5.63e-04	-6.05e-03	-0.10	3.13e-04	2.45e-05	-2.54e-06
12	10	3.10e-03	-3.95e-03	-0.07	1.96e-04	3.16e-05	0.0
12	24	-5.16e-04	-6.75e-03	-0.07	2.26e-04	1.25e-05	-2.25e-06
12	42	4.72e-03	-4.11e-03	-0.07	1.99e-04	4.07e-05	0.0
12	56	-1.03e-03	-8.55e-03	-0.07	2.47e-04	1.03e-05	-2.67e-06
12	70	4.24e-04	-4.52e-03	-0.08	2.33e-04	1.85e-05	-1.89e-06
12	72	3.77e-04	-3.86e-03	-0.07	1.99e-04	1.65e-05	-1.60e-06
13	2	-3.96e-04	6.12e-03	-0.10	-3.15e-04	-2.22e-05	1.83e-06
13	20	-2.95e-03	3.16e-03	-0.07	-1.83e-04	-2.98e-05	2.05e-06
13	21	2.88e-04	6.51e-03	-0.07	-2.27e-04	-1.14e-05	1.85e-06
13	25	3.62e-04	6.48e-03	-0.07	-2.27e-04	-9.80e-06	1.75e-06
13	52	-4.55e-03	2.82e-03	-0.07	-1.78e-04	-3.91e-05	2.62e-06

13	53	6.05e-04	8.16e-03	-0.07	-2.48e-04	-9.94e-06	2.30e-06
13	57	7.22e-04	8.11e-03	-0.07	-2.48e-04	-7.32e-06	2.14e-06
13	70	-2.97e-04	4.57e-03	-0.08	-2.35e-04	-1.67e-05	1.36e-06
13	72	-2.59e-04	3.89e-03	-0.07	-2.00e-04	-1.45e-05	1.14e-06
14	1	1.32e-03	-0.04	-0.10	2.07e-03	6.74e-05	0.0
14	2	7.50e-04	-0.06	-0.11	2.74e-03	6.94e-05	0.0
14	17	0.07	-0.01	-0.08	1.56e-03	1.17e-04	-2.91e-05
14	25	0.02	0.06	-0.08	1.42e-03	7.31e-05	3.29e-05
14	26	0.02	-0.13	-0.07	1.76e-03	6.90e-05	-4.07e-05
14	49	0.11	-4.16e-03	-0.08	1.54e-03	1.55e-04	-4.62e-05
14	57	0.03	0.12	-0.08	1.32e-03	8.57e-05	5.23e-05
14	58	0.03	-0.19	-0.07	1.86e-03	7.92e-05	-6.47e-05
14	69	1.01e-03	-0.03	-0.08	1.59e-03	5.18e-05	0.0
14	70	6.34e-04	-0.04	-0.08	2.03e-03	5.32e-05	0.0
14	71	1.01e-03	-0.03	-0.08	1.59e-03	5.18e-05	0.0
14	72	9.37e-04	-0.04	-0.08	1.68e-03	5.21e-05	0.0
15	2	5.51e-04	6.05e-03	-0.10	-3.12e-04	2.39e-05	2.13e-06
15	17	3.07e-03	3.95e-03	-0.07	-1.95e-04	3.01e-05	0.0
15	27	-5.19e-04	6.75e-03	-0.07	-2.25e-04	1.24e-05	2.06e-06
15	49	4.68e-03	4.11e-03	-0.07	-1.98e-04	3.86e-05	0.0
15	59	-1.03e-03	8.55e-03	-0.07	-2.46e-04	1.04e-05	2.53e-06
15	70	4.15e-04	4.52e-03	-0.08	-2.33e-04	1.80e-05	1.59e-06
15	72	3.69e-04	3.86e-03	-0.07	-1.98e-04	1.61e-05	1.33e-06
16	2	-2.38e-03	-0.05	-0.11	2.62e-03	-7.97e-05	0.0
16	20	-0.07	-0.05	-0.08	1.56e-03	-1.19e-04	2.66e-05
16	27	-0.02	0.06	-0.08	1.36e-03	-7.55e-05	-5.93e-05
16	28	-0.02	-0.13	-0.07	1.69e-03	-7.73e-05	6.68e-05
16	52	-0.11	-0.06	-0.08	1.58e-03	-1.55e-04	4.18e-05
16	59	-0.03	0.12	-0.08	1.26e-03	-8.57e-05	-9.46e-05
16	60	-0.04	-0.18	-0.07	1.79e-03	-8.86e-05	1.06e-04
16	70	-1.76e-03	-0.04	-0.08	1.95e-03	-6.09e-05	0.0
16	72	-1.38e-03	-0.03	-0.08	1.61e-03	-5.87e-05	0.0
17	1	1.50e-04	4.49e-03	-0.09	-2.26e-04	2.08e-06	0.0
17	2	1.14e-04	5.54e-03	-0.09	-2.79e-04	-1.10e-06	1.07e-06
17	17	2.98e-03	3.51e-03	-0.07	-1.77e-04	2.17e-05	-1.15e-06
17	27	-8.09e-04	6.48e-03	-0.07	-1.99e-04	-2.77e-06	1.50e-06
17	49	4.67e-03	3.54e-03	-0.07	-1.80e-04	3.36e-05	-2.16e-06
17	59	-1.35e-03	8.27e-03	-0.07	-2.14e-04	-5.40e-06	2.04e-06
17	69	1.14e-04	3.45e-03	-0.07	-1.73e-04	1.57e-06	0.0
17	70	9.07e-05	4.15e-03	-0.07	-2.09e-04	0.0	0.0
17	71	1.14e-04	3.45e-03	-0.07	-1.73e-04	1.57e-06	0.0
17	72	1.10e-04	3.59e-03	-0.07	-1.80e-04	1.14e-06	0.0
18	2	-1.21e-03	-0.04	-0.10	1.91e-03	-1.86e-05	1.79e-06
18	20	-0.07	-0.03	-0.07	1.15e-03	-5.15e-05	4.07e-05
18	26	0.02	-0.08	-0.07	1.23e-03	3.61e-06	6.68e-05
18	27	-0.02	0.03	-0.07	1.03e-03	-1.93e-05	-6.49e-05
18	52	-0.11	-0.04	-0.07	1.16e-03	-7.73e-05	6.40e-05
18	58	0.03	-0.11	-0.07	1.29e-03	1.05e-05	1.05e-04
18	59	-0.03	0.07	-0.08	9.76e-04	-2.61e-05	-1.03e-04
18	70	-8.51e-04	-0.03	-0.08	1.42e-03	-1.35e-05	1.33e-06
18	72	-4.17e-04	-0.02	-0.07	1.19e-03	-8.97e-06	1.05e-06
19	2	-1.23e-03	0.04	-0.10	-1.91e-03	-1.86e-05	-2.04e-06
19	11	-0.07	0.03	-0.07	-1.15e-03	-5.17e-05	-4.10e-05
19	24	-0.02	-0.03	-0.07	-1.03e-03	-1.94e-05	6.46e-05
19	25	0.01	0.08	-0.07	-1.23e-03	0.0	-6.90e-05
19	43	-0.11	0.04	-0.07	-1.16e-03	-7.76e-05	-6.44e-05
19	56	-0.03	-0.06	-0.08	-9.75e-04	-2.62e-05	1.03e-04
19	57	0.02	0.11	-0.07	-1.29e-03	3.69e-06	-1.09e-04
19	70	-8.65e-04	0.03	-0.08	-1.42e-03	-1.35e-05	-1.51e-06
19	72	-4.28e-04	0.02	-0.07	-1.19e-03	-8.97e-06	-1.21e-06
20	2	-8.12e-04	0.06	-0.12	-3.06e-03	-1.60e-05	0.0
20	11	-0.07	0.07	-0.08	-1.83e-03	-7.59e-05	-1.84e-05
20	30	0.02	-0.08	-0.08	-1.57e-03	4.26e-06	-1.85e-05
20	35	-0.02	0.16	-0.08	-1.97e-03	-2.41e-05	2.43e-05
20	43	-0.11	0.10	-0.08	-1.87e-03	-1.13e-04	-2.94e-05
20	62	0.03	-0.15	-0.09	-1.44e-03	1.46e-05	-2.96e-05
20	67	-0.02	0.23	-0.07	-2.09e-03	-3.06e-05	3.84e-05
20	70	-5.65e-04	0.05	-0.09	-2.27e-03	-1.24e-05	0.0
20	72	-2.58e-04	0.04	-0.08	-1.87e-03	-1.30e-05	0.0
21	2	3.90e-04	-6.19e-03	-0.10	3.16e-04	1.84e-05	1.93e-06
21	10	2.96e-03	-4.61e-03	-0.07	2.00e-04	3.03e-05	2.18e-06
21	32	-1.91e-04	-6.30e-03	-0.07	2.25e-04	7.84e-06	2.54e-06
21	36	-1.18e-04	-6.35e-03	-0.07	2.24e-04	9.65e-06	2.64e-06
21	42	4.56e-03	-5.11e-03	-0.07	2.05e-04	4.11e-05	2.81e-06
21	64	-4.51e-04	-7.80e-03	-0.07	2.44e-04	5.46e-06	3.37e-06
21	68	-3.35e-04	-7.88e-03	-0.07	2.44e-04	8.34e-06	3.53e-06

21	70	2.93e-04	-4.62e-03	-0.07	2.36e-04	1.39e-05	1.44e-06
21	72	2.58e-04	-3.93e-03	-0.07	2.00e-04	1.23e-05	1.19e-06
22	2	9.13e-05	-6.92e-03	-0.11	3.53e-04	4.32e-06	2.10e-06
22	10	2.77e-03	-5.43e-03	-0.07	2.27e-04	2.11e-05	2.34e-06
22	30	1.15e-03	-7.52e-03	-0.07	2.59e-04	8.92e-06	2.92e-06
22	42	4.37e-03	-6.17e-03	-0.07	2.35e-04	3.18e-05	3.01e-06
22	62	1.80e-03	-9.50e-03	-0.08	2.87e-04	1.25e-05	3.94e-06
22	70	6.85e-05	-5.16e-03	-0.08	2.63e-04	3.26e-06	1.56e-06
22	72	6.12e-05	-4.37e-03	-0.07	2.23e-04	2.96e-06	1.27e-06
23	2	-4.06e-04	-6.11e-03	-0.10	3.16e-04	-2.28e-05	-1.49e-06
23	11	-2.98e-03	-3.05e-03	-0.07	1.84e-04	-3.12e-05	-1.03e-06
23	22	3.64e-04	-6.50e-03	-0.07	2.28e-04	-9.81e-06	-1.79e-06
23	26	2.91e-04	-6.51e-03	-0.07	2.28e-04	-1.16e-05	-1.83e-06
23	43	-4.59e-03	-2.66e-03	-0.07	1.79e-04	-4.12e-05	-1.12e-06
23	54	7.30e-04	-8.15e-03	-0.07	2.49e-04	-7.13e-06	-2.34e-06
23	58	6.14e-04	-8.15e-03	-0.07	2.49e-04	-9.91e-06	-2.40e-06
23	70	-3.05e-04	-4.56e-03	-0.08	2.36e-04	-1.71e-05	-1.10e-06
23	72	-2.66e-04	-3.88e-03	-0.07	2.01e-04	-1.49e-05	0.0
24	1	1.93e-04	2.53e-03	-0.06	-1.25e-04	4.33e-06	0.0
24	2	1.39e-04	3.01e-03	-0.06	-1.49e-04	0.0	0.0
24	13	2.77e-03	2.27e-03	-0.05	-1.03e-04	1.66e-05	0.0
24	17	2.85e-03	1.94e-03	-0.05	-1.03e-04	1.67e-05	0.0
24	21	8.18e-04	4.74e-03	-0.04	-1.04e-04	5.86e-06	0.0
24	45	4.33e-03	2.47e-03	-0.05	-1.08e-04	2.46e-05	0.0
24	49	4.45e-03	1.93e-03	-0.05	-1.07e-04	2.46e-05	0.0
24	53	1.22e-03	6.38e-03	-0.04	-1.08e-04	7.49e-06	0.0
24	69	1.45e-04	1.94e-03	-0.04	-9.60e-05	3.15e-06	0.0
24	70	1.09e-04	2.26e-03	-0.04	-1.12e-04	0.0	0.0
24	71	1.45e-04	1.94e-03	-0.04	-9.60e-05	3.15e-06	0.0
24	72	1.38e-04	2.00e-03	-0.04	-9.91e-05	2.61e-06	0.0
25	1	6.11e-04	-4.15e-03	-0.08	2.06e-04	2.63e-05	-1.69e-06
25	2	5.89e-04	-4.95e-03	-0.09	2.46e-04	2.42e-05	-2.02e-06
25	6	3.64e-03	-4.54e-03	-0.07	1.75e-04	6.05e-05	0.0
25	10	3.78e-03	-4.19e-03	-0.07	1.73e-04	6.06e-05	-1.08e-06
25	26	1.19e-03	-6.29e-03	-0.07	1.82e-04	3.02e-05	-2.23e-06
25	38	5.51e-03	-5.34e-03	-0.07	1.84e-04	8.44e-05	0.0
25	42	5.74e-03	-4.77e-03	-0.07	1.81e-04	8.45e-05	0.0
25	58	1.62e-03	-8.11e-03	-0.07	1.96e-04	3.60e-05	-2.74e-06
25	69	4.67e-04	-3.18e-03	-0.06	1.58e-04	2.01e-05	-1.30e-06
25	70	4.53e-04	-3.72e-03	-0.07	1.85e-04	1.87e-05	-1.52e-06
25	71	4.67e-04	-3.18e-03	-0.06	1.58e-04	2.01e-05	-1.30e-06
25	72	4.64e-04	-3.29e-03	-0.07	1.63e-04	1.98e-05	-1.34e-06
26	2	-2.16e-03	0.02	-0.10	-1.10e-03	-6.36e-05	-2.23e-06
26	6	0.07	8.93e-03	-0.07	-6.75e-04	5.09e-05	-1.14e-05
26	11	-0.07	0.02	-0.06	-6.88e-04	-1.34e-04	1.04e-05
26	21	0.02	0.05	-0.07	-7.48e-04	-1.51e-05	-4.97e-05
26	38	0.11	6.05e-03	-0.08	-6.69e-04	1.05e-04	-1.68e-05
26	43	-0.11	0.02	-0.06	-6.90e-04	-1.89e-04	1.67e-05
26	53	0.03	0.07	-0.07	-7.85e-04	0.0	-7.76e-05
26	70	-1.57e-03	0.02	-0.07	-8.22e-04	-4.80e-05	-1.65e-06
26	72	-1.12e-03	0.01	-0.07	-7.11e-04	-4.29e-05	-1.35e-06
27	1	5.91e-04	4.09e-03	-0.08	-2.04e-04	2.55e-05	0.0
27	2	5.69e-04	4.88e-03	-0.09	-2.44e-04	2.32e-05	0.0
27	13	3.59e-03	4.49e-03	-0.07	-1.73e-04	5.84e-05	0.0
27	17	3.73e-03	4.14e-03	-0.07	-1.71e-04	5.84e-05	0.0
27	21	1.16e-03	6.24e-03	-0.07	-1.80e-04	2.92e-05	1.06e-06
27	45	5.44e-03	5.28e-03	-0.07	-1.82e-04	8.14e-05	0.0
27	49	5.66e-03	4.72e-03	-0.07	-1.79e-04	8.14e-05	-1.87e-06
27	53	1.58e-03	8.06e-03	-0.07	-1.94e-04	3.48e-05	1.30e-06
27	69	4.52e-04	3.14e-03	-0.06	-1.57e-04	1.95e-05	0.0
27	70	4.37e-04	3.67e-03	-0.07	-1.83e-04	1.80e-05	0.0
27	71	4.52e-04	3.14e-03	-0.06	-1.57e-04	1.95e-05	0.0
27	72	4.49e-04	3.24e-03	-0.07	-1.62e-04	1.92e-05	0.0
28	2	-2.13e-03	-0.02	-0.10	1.10e-03	-6.34e-05	1.75e-06
28	13	0.07	-9.11e-03	-0.07	6.75e-04	5.10e-05	1.06e-05
28	20	-0.07	-0.02	-0.06	6.88e-04	-1.34e-04	-1.09e-05
28	26	0.02	-0.05	-0.07	7.48e-04	-1.55e-05	4.97e-05
28	45	0.11	-6.21e-03	-0.08	6.70e-04	1.06e-04	1.58e-05
28	52	-0.11	-0.02	-0.06	6.90e-04	-1.89e-04	-1.72e-05
28	58	0.03	-0.07	-0.07	7.86e-04	0.0	7.77e-05
28	70	-1.56e-03	-0.02	-0.07	8.23e-04	-4.78e-05	1.29e-06
28	72	-1.11e-03	-0.01	-0.07	7.12e-04	-4.28e-05	1.04e-06
29	2	-2.66e-03	-4.91e-03	-0.09	2.35e-04	-1.37e-04	0.0
29	8	-4.65e-03	-3.06e-03	-0.07	1.56e-04	-1.13e-04	0.0
29	32	-2.37e-03	-6.20e-03	-0.07	1.70e-04	-1.02e-04	0.0
29	36	-2.27e-03	-6.50e-03	-0.07	1.69e-04	-1.00e-04	0.0

29	40	-6.34e-03	-3.04e-03	-0.07	1.61e-04	-1.26e-04	0.0
29	64	-2.71e-03	-8.04e-03	-0.07	1.82e-04	-1.09e-04	0.0
29	68	-2.56e-03	-8.50e-03	-0.07	1.82e-04	-1.06e-04	0.0
29	70	-2.01e-03	-3.68e-03	-0.07	1.76e-04	-1.03e-04	0.0
29	72	-1.83e-03	-3.22e-03	-0.06	1.54e-04	-9.36e-05	0.0
30	2	-2.33e-03	-4.70e-03	-0.08	2.26e-04	-1.20e-04	0.0
30	11	-4.43e-03	-1.53e-03	-0.06	1.41e-04	-1.01e-04	0.0
30	12	-4.28e-03	-3.45e-03	-0.06	1.51e-04	-1.02e-04	0.0
30	36	-2.06e-03	-6.31e-03	-0.06	1.62e-04	-8.70e-05	0.0
30	43	-6.11e-03	-6.91e-04	-0.06	1.39e-04	-1.13e-04	0.0
30	44	-5.87e-03	-3.73e-03	-0.06	1.56e-04	-1.15e-04	0.0
30	68	-2.35e-03	-8.28e-03	-0.06	1.72e-04	-9.09e-05	0.0
30	70	-1.76e-03	-3.52e-03	-0.06	1.69e-04	-9.02e-05	0.0
30	72	-1.61e-03	-3.08e-03	-0.06	1.48e-04	-8.23e-05	0.0
31	2	-2.60e-03	-5.08e-03	-0.09	2.48e-04	-1.27e-04	0.0
31	8	-4.80e-03	-3.18e-03	-0.07	1.69e-04	-1.16e-04	0.0
31	12	-4.66e-03	-3.77e-03	-0.07	1.72e-04	-1.16e-04	0.0
31	36	-2.30e-03	-6.61e-03	-0.07	1.78e-04	-9.43e-05	0.0
31	40	-6.60e-03	-3.15e-03	-0.07	1.75e-04	-1.34e-04	0.0
31	44	-6.38e-03	-4.09e-03	-0.07	1.80e-04	-1.34e-04	0.0
31	68	-2.63e-03	-8.62e-03	-0.07	1.91e-04	-1.00e-04	0.0
31	70	-1.96e-03	-3.81e-03	-0.07	1.86e-04	-9.55e-05	0.0
31	72	-1.78e-03	-3.34e-03	-0.06	1.63e-04	-8.68e-05	0.0
32	2	-1.93e-03	-4.07e-03	-0.07	1.98e-04	-9.62e-05	0.0
32	11	-4.04e-03	-1.23e-03	-0.05	1.27e-04	-8.22e-05	0.0
32	12	-3.91e-03	-3.07e-03	-0.05	1.34e-04	-8.29e-05	0.0
32	36	-1.82e-03	-5.80e-03	-0.05	1.39e-04	-6.99e-05	0.0
32	43	-5.66e-03	-4.38e-04	-0.05	1.28e-04	-9.23e-05	0.0
32	44	-5.46e-03	-3.36e-03	-0.06	1.39e-04	-9.34e-05	0.0
32	68	-2.13e-03	-7.70e-03	-0.05	1.46e-04	-7.28e-05	0.0
32	70	-1.45e-03	-3.05e-03	-0.06	1.49e-04	-7.26e-05	0.0
32	72	-1.33e-03	-2.68e-03	-0.05	1.30e-04	-6.65e-05	0.0
33	2	-1.98e-03	-4.53e-03	-0.08	2.21e-04	-9.80e-05	0.0
33	11	-4.14e-03	-2.35e-03	-0.06	1.46e-04	-8.67e-05	0.0
33	12	-4.02e-03	-4.23e-03	-0.06	1.54e-04	-8.74e-05	0.0
33	36	-1.87e-03	-6.18e-03	-0.06	1.56e-04	-7.17e-05	0.0
33	43	-5.80e-03	-2.04e-03	-0.06	1.49e-04	-9.89e-05	0.0
33	44	-5.60e-03	-5.02e-03	-0.06	1.61e-04	-1.00e-04	0.0
33	68	-2.19e-03	-8.13e-03	-0.06	1.64e-04	-7.49e-05	0.0
33	70	-1.49e-03	-3.40e-03	-0.06	1.66e-04	-7.39e-05	0.0
33	72	-1.37e-03	-2.99e-03	-0.06	1.46e-04	-6.77e-05	0.0
34	2	-1.52e-03	-3.34e-03	-0.06	1.63e-04	-7.58e-05	0.0
34	11	-3.67e-03	-8.12e-04	-0.05	1.07e-04	-6.57e-05	0.0
34	12	-3.57e-03	-2.60e-03	-0.05	1.11e-04	-6.60e-05	0.0
34	36	-1.58e-03	-5.26e-03	-0.05	1.13e-04	-5.52e-05	0.0
34	43	-5.22e-03	-3.69e-05	-0.05	1.08e-04	-7.41e-05	0.0
34	44	-5.06e-03	-2.88e-03	-0.05	1.15e-04	-7.46e-05	0.0
34	68	-1.90e-03	-7.11e-03	-0.05	1.18e-04	-5.74e-05	0.0
34	70	-1.15e-03	-2.51e-03	-0.05	1.22e-04	-5.72e-05	0.0
34	72	-1.06e-03	-2.20e-03	-0.05	1.08e-04	-5.26e-05	0.0
35	2	-1.54e-03	-3.71e-03	-0.07	1.81e-04	-7.68e-05	0.0
35	11	-3.74e-03	-1.86e-03	-0.05	1.22e-04	-6.90e-05	0.0
35	12	-3.63e-03	-3.68e-03	-0.05	1.27e-04	-6.93e-05	0.0
35	36	-1.61e-03	-5.57e-03	-0.05	1.26e-04	-5.65e-05	0.0
35	43	-5.32e-03	-1.56e-03	-0.05	1.26e-04	-7.89e-05	0.0
35	44	-5.16e-03	-4.44e-03	-0.05	1.34e-04	-7.94e-05	0.0
35	68	-1.93e-03	-7.45e-03	-0.05	1.32e-04	-5.90e-05	0.0
35	70	-1.16e-03	-2.79e-03	-0.05	1.36e-04	-5.80e-05	0.0
35	72	-1.07e-03	-2.46e-03	-0.05	1.20e-04	-5.34e-05	0.0
36	2	-1.22e-03	-2.50e-03	-0.06	1.22e-04	-6.05e-05	0.0
36	11	-3.38e-03	-2.97e-04	-0.04	8.11e-05	-5.30e-05	0.0
36	12	-3.30e-03	-2.05e-03	-0.04	8.40e-05	-5.32e-05	0.0
36	36	-1.42e-03	-4.66e-03	-0.04	8.35e-05	-4.45e-05	0.0
36	43	-4.88e-03	4.67e-04	-0.04	8.29e-05	-5.98e-05	0.0
36	44	-4.76e-03	-2.32e-03	-0.04	8.74e-05	-6.02e-05	0.0
36	68	-1.76e-03	-6.48e-03	-0.04	8.68e-05	-4.64e-05	0.0
36	70	-9.19e-04	-1.88e-03	-0.04	9.17e-05	-4.56e-05	0.0
36	72	-8.51e-04	-1.65e-03	-0.04	8.08e-05	-4.22e-05	0.0
37	2	-1.22e-03	-2.77e-03	-0.06	1.35e-04	-6.06e-05	0.0
37	11	-3.41e-03	-4.76e-04	-0.05	9.24e-05	-5.50e-05	0.0
37	12	-3.33e-03	-2.25e-03	-0.05	9.53e-05	-5.47e-05	0.0
37	36	-1.42e-03	-4.89e-03	-0.04	9.27e-05	-4.41e-05	0.0
37	43	-4.93e-03	2.86e-04	-0.05	9.59e-05	-6.30e-05	0.0
37	44	-4.81e-03	-2.54e-03	-0.05	1.00e-04	-6.25e-05	0.0
37	68	-1.77e-03	-6.73e-03	-0.05	9.62e-05	-4.56e-05	0.0
37	70	-9.18e-04	-2.08e-03	-0.05	1.01e-04	-4.58e-05	0.0

37	72	-8.51e-04	-1.83e-03	-0.04	8.96e-05	-4.24e-05	0.0
38	2	-1.01e-03	-1.59e-03	-0.05	7.80e-05	-5.03e-05	0.0
38	11	-3.17e-03	2.76e-04	-0.04	5.26e-05	-4.45e-05	0.0
38	12	-3.12e-03	-1.45e-03	-0.04	5.42e-05	-4.43e-05	0.0
38	36	-1.33e-03	-4.04e-03	-0.04	5.30e-05	-3.68e-05	0.0
38	43	-4.63e-03	1.04e-03	-0.04	5.42e-05	-5.03e-05	0.0
38	44	-4.55e-03	-1.71e-03	-0.04	5.68e-05	-5.00e-05	0.0
38	68	-1.70e-03	-5.82e-03	-0.04	5.48e-05	-3.80e-05	0.0
38	70	-7.64e-04	-1.20e-03	-0.04	5.85e-05	-3.79e-05	0.0
38	72	-7.11e-04	-1.05e-03	-0.04	5.16e-05	-3.53e-05	0.0
39	2	-9.96e-04	-1.76e-03	-0.05	8.59e-05	-4.96e-05	0.0
39	11	-3.18e-03	1.71e-04	-0.04	5.98e-05	-4.53e-05	0.0
39	12	-3.13e-03	-1.58e-03	-0.04	6.14e-05	-4.51e-05	0.0
39	36	-1.32e-03	-4.19e-03	-0.04	5.85e-05	-3.66e-05	0.0
39	43	-4.65e-03	9.36e-04	-0.04	6.26e-05	-5.18e-05	0.0
39	44	-4.57e-03	-1.84e-03	-0.04	6.51e-05	-5.14e-05	0.0
39	68	-1.69e-03	-6.00e-03	-0.04	6.04e-05	-3.80e-05	0.0
39	70	-7.52e-04	-1.32e-03	-0.04	6.45e-05	-3.75e-05	0.0
39	72	-7.01e-04	-1.17e-03	-0.04	5.70e-05	-3.49e-05	0.0
40	2	-9.04e-04	-6.61e-04	-0.05	3.23e-05	-4.49e-05	0.0
40	11	-3.04e-03	8.79e-04	-0.04	2.25e-05	-3.95e-05	0.0
40	12	-3.02e-03	-8.35e-04	-0.04	2.35e-05	-3.94e-05	0.0
40	36	-1.30e-03	-3.42e-03	-0.04	2.26e-05	-3.32e-05	0.0
40	43	-4.46e-03	1.65e-03	-0.04	2.37e-05	-4.46e-05	0.0
40	44	-4.43e-03	-1.08e-03	-0.04	2.52e-05	-4.44e-05	0.0
40	68	-1.70e-03	-5.18e-03	-0.04	2.37e-05	-3.45e-05	0.0
40	70	-6.82e-04	-4.96e-04	-0.04	2.42e-05	-3.38e-05	0.0
40	72	-6.36e-04	-4.37e-04	-0.04	2.14e-05	-3.16e-05	0.0
41	2	-8.78e-04	-7.28e-04	-0.05	3.55e-05	-4.37e-05	0.0
41	11	-3.04e-03	8.47e-04	-0.04	2.59e-05	-3.98e-05	0.0
41	12	-3.02e-03	-8.86e-04	-0.04	2.67e-05	-3.97e-05	0.0
41	36	-1.29e-03	-3.50e-03	-0.04	2.47e-05	-3.28e-05	0.0
41	43	-4.47e-03	1.62e-03	-0.04	2.77e-05	-4.54e-05	0.0
41	44	-4.44e-03	-1.13e-03	-0.04	2.91e-05	-4.52e-05	0.0
41	68	-1.70e-03	-5.29e-03	-0.04	2.58e-05	-3.42e-05	0.0
41	70	-6.63e-04	-5.47e-04	-0.04	2.66e-05	-3.30e-05	0.0
41	72	-6.21e-04	-4.83e-04	-0.04	2.36e-05	-3.09e-05	0.0
42	2	-8.87e-04	2.80e-04	-0.05	-1.39e-05	-4.40e-05	0.0
42	15	-3.01e-03	7.30e-05	-0.04	-1.11e-05	-3.86e-05	0.0
42	20	-3.01e-03	-1.12e-03	-0.04	-1.03e-05	-3.87e-05	0.0
42	31	-1.31e-03	3.17e-03	-0.04	-9.94e-06	-3.28e-05	0.0
42	47	-4.43e-03	7.40e-06	-0.04	-1.23e-05	-4.35e-05	0.0
42	52	-4.43e-03	-1.89e-03	-0.04	-1.12e-05	-4.35e-05	0.0
42	63	-1.72e-03	4.93e-03	-0.04	-1.06e-05	-3.41e-05	0.0
42	70	-6.69e-04	2.10e-04	-0.04	-1.04e-05	-3.32e-05	0.0
42	72	-6.25e-04	1.85e-04	-0.04	-9.20e-06	-3.10e-05	0.0
43	2	-8.60e-04	3.09e-04	-0.05	-1.53e-05	-4.28e-05	0.0
43	15	-3.01e-03	7.89e-05	-0.04	-1.29e-05	-3.88e-05	0.0
43	20	-3.02e-03	-1.12e-03	-0.04	-1.22e-05	-3.89e-05	0.0
43	31	-1.30e-03	3.23e-03	-0.04	-1.06e-05	-3.23e-05	0.0
43	47	-4.44e-03	5.13e-06	-0.04	-1.47e-05	-4.41e-05	0.0
43	52	-4.44e-03	-1.90e-03	-0.04	-1.36e-05	-4.42e-05	0.0
43	63	-1.71e-03	5.01e-03	-0.04	-1.10e-05	-3.38e-05	0.0
43	70	-6.49e-04	2.32e-04	-0.04	-1.15e-05	-3.23e-05	0.0
43	72	-6.09e-04	2.05e-04	-0.04	-1.02e-05	-3.03e-05	0.0
44	2	-9.62e-04	1.22e-03	-0.05	-5.98e-05	-4.77e-05	0.0
44	19	-3.08e-03	1.21e-03	-0.04	-4.20e-05	-4.20e-05	0.0
44	20	-3.12e-03	-5.13e-04	-0.04	-4.07e-05	-4.22e-05	0.0
44	31	-1.31e-03	3.79e-03	-0.04	-4.08e-05	-3.50e-05	0.0
44	51	-4.50e-03	1.46e-03	-0.04	-4.41e-05	-4.74e-05	0.0
44	52	-4.56e-03	-1.27e-03	-0.04	-4.21e-05	-4.77e-05	0.0
44	63	-1.69e-03	5.56e-03	-0.04	-4.22e-05	-3.63e-05	0.0
44	70	-7.25e-04	9.14e-04	-0.04	-4.49e-05	-3.60e-05	0.0
44	72	-6.76e-04	8.05e-04	-0.04	-3.96e-05	-3.35e-05	0.0
45	2	-9.41e-04	1.34e-03	-0.05	-6.60e-05	-4.69e-05	0.0
45	19	-3.09e-03	1.30e-03	-0.04	-4.76e-05	-4.26e-05	0.0
45	20	-3.13e-03	-4.38e-04	-0.04	-4.64e-05	-4.28e-05	0.0
45	31	-1.30e-03	3.91e-03	-0.04	-4.49e-05	-3.48e-05	0.0
45	51	-4.52e-03	1.57e-03	-0.04	-5.07e-05	-4.86e-05	0.0
45	52	-4.58e-03	-1.20e-03	-0.04	-4.88e-05	-4.89e-05	0.0
45	63	-1.68e-03	5.71e-03	-0.04	-4.64e-05	-3.62e-05	0.0
45	70	-7.11e-04	1.01e-03	-0.04	-4.96e-05	-3.54e-05	0.0
45	72	-6.64e-04	8.90e-04	-0.04	-4.38e-05	-3.30e-05	0.0
46	2	-1.13e-03	2.14e-03	-0.05	-1.05e-04	-5.60e-05	0.0
46	19	-3.23e-03	1.81e-03	-0.04	-7.22e-05	-4.95e-05	0.0
46	20	-3.30e-03	7.29e-05	-0.04	-6.99e-05	-4.92e-05	0.0

46	31	-1.37e-03	4.41e-03	-0.04	-7.14e-05	-4.14e-05	0.0
46	51	-4.68e-03	2.08e-03	-0.04	-7.52e-05	-5.60e-05	0.0
46	52	-4.78e-03	-6.87e-04	-0.04	-7.16e-05	-5.56e-05	0.0
46	63	-1.72e-03	6.21e-03	-0.04	-7.39e-05	-4.31e-05	0.0
46	70	-8.53e-04	1.60e-03	-0.04	-7.86e-05	-4.23e-05	0.0
46	72	-7.91e-04	1.41e-03	-0.04	-6.93e-05	-3.92e-05	0.0
47	2	-1.13e-03	2.36e-03	-0.06	-1.16e-04	-5.60e-05	0.0
47	19	-3.25e-03	1.99e-03	-0.04	-8.19e-05	-5.07e-05	0.0
47	20	-3.32e-03	2.22e-04	-0.04	-7.96e-05	-5.10e-05	0.0
47	31	-1.38e-03	4.61e-03	-0.04	-7.91e-05	-4.09e-05	0.0
47	51	-4.72e-03	2.27e-03	-0.05	-8.64e-05	-5.79e-05	0.0
47	52	-4.83e-03	-5.38e-04	-0.05	-8.28e-05	-5.83e-05	0.0
47	63	-1.73e-03	6.44e-03	-0.04	-8.19e-05	-4.24e-05	0.0
47	70	-8.50e-04	1.77e-03	-0.04	-8.69e-05	-4.22e-05	0.0
47	72	-7.90e-04	1.56e-03	-0.04	-7.68e-05	-3.92e-05	0.0
48	2	-1.40e-03	3.01e-03	-0.06	-1.47e-04	-6.93e-05	0.0
48	19	-3.46e-03	2.39e-03	-0.05	-1.01e-04	-6.07e-05	0.0
48	20	-3.56e-03	6.13e-04	-0.05	-9.67e-05	-6.04e-05	0.0
48	31	-1.51e-03	5.03e-03	-0.05	-1.01e-04	-5.07e-05	0.0
48	51	-4.94e-03	2.66e-03	-0.05	-1.04e-04	-6.86e-05	0.0
48	52	-5.09e-03	-1.54e-04	-0.05	-9.82e-05	-6.82e-05	0.0
48	63	-1.84e-03	6.86e-03	-0.05	-1.05e-04	-5.27e-05	0.0
48	70	-1.06e-03	2.26e-03	-0.05	-1.10e-04	-5.23e-05	0.0
48	72	-9.74e-04	1.98e-03	-0.04	-9.73e-05	-4.82e-05	0.0
49	2	-1.42e-03	3.34e-03	-0.06	-1.63e-04	-7.03e-05	0.0
49	19	-3.52e-03	2.64e-03	-0.05	-1.15e-04	-6.36e-05	0.0
49	20	-3.62e-03	8.38e-04	-0.05	-1.11e-04	-6.33e-05	0.0
49	31	-1.53e-03	5.30e-03	-0.05	-1.13e-04	-5.19e-05	0.0
49	51	-5.03e-03	2.94e-03	-0.05	-1.21e-04	-7.28e-05	0.0
49	52	-5.18e-03	7.50e-05	-0.05	-1.14e-04	-7.23e-05	0.0
49	63	-1.87e-03	7.16e-03	-0.05	-1.18e-04	-5.42e-05	0.0
49	70	-1.07e-03	2.51e-03	-0.05	-1.23e-04	-5.31e-05	0.0
49	72	-9.88e-04	2.21e-03	-0.05	-1.08e-04	-4.90e-05	0.0
50	2	-1.76e-03	3.79e-03	-0.07	-1.85e-04	-8.75e-05	0.0
50	19	-3.78e-03	2.89e-03	-0.05	-1.25e-04	-7.57e-05	0.0
50	20	-3.89e-03	1.08e-03	-0.05	-1.19e-04	-7.52e-05	0.0
50	31	-1.72e-03	5.59e-03	-0.05	-1.29e-04	-6.36e-05	0.0
50	51	-5.30e-03	3.18e-03	-0.05	-1.30e-04	-8.54e-05	0.0
50	52	-5.49e-03	2.93e-04	-0.05	-1.20e-04	-8.46e-05	0.0
50	63	-2.03e-03	7.47e-03	-0.05	-1.35e-04	-6.62e-05	0.0
50	70	-1.33e-03	2.84e-03	-0.05	-1.39e-04	-6.60e-05	0.0
50	72	-1.22e-03	2.50e-03	-0.05	-1.22e-04	-6.06e-05	0.0
51	2	-1.83e-03	4.22e-03	-0.07	-2.06e-04	-9.01e-05	0.0
51	19	-3.89e-03	3.21e-03	-0.06	-1.43e-04	-8.06e-05	0.0
51	20	-4.00e-03	1.36e-03	-0.06	-1.37e-04	-8.00e-05	0.0
51	31	-1.78e-03	5.94e-03	-0.05	-1.44e-04	-6.60e-05	0.0
51	51	-5.45e-03	3.53e-03	-0.06	-1.50e-04	-9.22e-05	0.0
51	52	-5.63e-03	5.83e-04	-0.06	-1.40e-04	-9.13e-05	0.0
51	63	-2.10e-03	7.87e-03	-0.06	-1.52e-04	-6.89e-05	0.0
51	70	-1.38e-03	3.16e-03	-0.06	-1.54e-04	-6.80e-05	0.0
51	72	-1.27e-03	2.78e-03	-0.05	-1.36e-04	-6.23e-05	0.0
52	2	-2.13e-03	4.47e-03	-0.08	-2.17e-04	-1.08e-04	0.0
52	19	-4.12e-03	3.31e-03	-0.06	-1.45e-04	-9.37e-05	0.0
52	20	-4.27e-03	1.43e-03	-0.06	-1.36e-04	-9.29e-05	0.0
52	31	-1.93e-03	6.12e-03	-0.06	-1.54e-04	-7.88e-05	0.0
52	51	-5.70e-03	3.60e-03	-0.06	-1.50e-04	-1.06e-04	0.0
52	52	-5.93e-03	6.05e-04	-0.06	-1.35e-04	-1.05e-04	0.0
52	63	-2.21e-03	8.06e-03	-0.06	-1.63e-04	-8.20e-05	0.0
52	70	-1.61e-03	3.35e-03	-0.06	-1.62e-04	-8.19e-05	0.0
52	72	-1.47e-03	2.93e-03	-0.06	-1.42e-04	-7.49e-05	0.0
53	2	-2.45e-03	4.86e-03	-0.08	-2.38e-04	-1.18e-04	0.0
53	15	-4.61e-03	3.05e-03	-0.06	-1.62e-04	-1.06e-04	0.0
53	19	-4.47e-03	3.63e-03	-0.06	-1.65e-04	-1.06e-04	0.0
53	31	-2.19e-03	6.43e-03	-0.06	-1.69e-04	-8.76e-05	0.0
53	47	-6.35e-03	3.03e-03	-0.07	-1.69e-04	-1.22e-04	0.0
53	51	-6.14e-03	3.95e-03	-0.07	-1.72e-04	-1.22e-04	0.0
53	63	-2.52e-03	8.40e-03	-0.06	-1.79e-04	-9.24e-05	0.0
53	70	-1.85e-03	3.65e-03	-0.06	-1.78e-04	-8.94e-05	0.0
53	72	-1.68e-03	3.20e-03	-0.06	-1.57e-04	-8.14e-05	0.0
54	2	-2.65e-03	4.94e-03	-0.09	-2.36e-04	-1.36e-04	0.0
54	15	-4.62e-03	3.10e-03	-0.07	-1.57e-04	-1.13e-04	0.0
54	31	-2.26e-03	6.52e-03	-0.07	-1.70e-04	-1.00e-04	0.0
54	35	-2.35e-03	6.23e-03	-0.07	-1.70e-04	-1.02e-04	0.0
54	47	-6.31e-03	3.08e-03	-0.07	-1.62e-04	-1.25e-04	0.0
54	63	-2.54e-03	8.52e-03	-0.07	-1.82e-04	-1.06e-04	0.0
54	67	-2.69e-03	8.06e-03	-0.07	-1.83e-04	-1.08e-04	0.0

54	70	-2.00e-03	3.71e-03	-0.07	-1.77e-04	-1.03e-04	0.0
54	72	-1.82e-03	3.24e-03	-0.06	-1.54e-04	-9.34e-05	0.0
55	2	-2.29e-03	-4.07e-03	-0.08	1.99e-04	-1.18e-04	0.0
55	8	-4.28e-03	-2.51e-03	-0.06	1.30e-04	-9.43e-05	0.0
55	32	-2.08e-03	-5.52e-03	-0.06	1.42e-04	-8.78e-05	0.0
55	36	-2.00e-03	-5.80e-03	-0.06	1.42e-04	-8.67e-05	0.0
55	40	-5.89e-03	-2.47e-03	-0.06	1.33e-04	-1.03e-04	0.0
55	64	-2.40e-03	-7.27e-03	-0.06	1.51e-04	-9.30e-05	0.0
55	68	-2.27e-03	-7.72e-03	-0.06	1.51e-04	-9.12e-05	0.0
55	70	-1.73e-03	-3.05e-03	-0.06	1.49e-04	-8.90e-05	0.0
55	72	-1.58e-03	-2.66e-03	-0.06	1.30e-04	-8.11e-05	0.0
56	2	-2.05e-03	-3.97e-03	-0.08	1.95e-04	-1.04e-04	0.0
56	8	-4.07e-03	-2.45e-03	-0.06	1.27e-04	-8.41e-05	0.0
56	32	-1.93e-03	-5.44e-03	-0.06	1.38e-04	-7.71e-05	0.0
56	36	-1.85e-03	-5.72e-03	-0.06	1.38e-04	-7.61e-05	0.0
56	40	-5.66e-03	-2.41e-03	-0.06	1.30e-04	-9.22e-05	0.0
56	64	-2.25e-03	-7.17e-03	-0.06	1.46e-04	-8.11e-05	0.0
56	68	-2.13e-03	-7.62e-03	-0.06	1.46e-04	-7.94e-05	0.0
56	70	-1.55e-03	-2.98e-03	-0.06	1.46e-04	-7.88e-05	0.0
56	72	-1.42e-03	-2.60e-03	-0.06	1.28e-04	-7.20e-05	0.0
57	2	-1.66e-03	-3.59e-03	-0.07	1.76e-04	-8.29e-05	0.0
57	11	-3.75e-03	-9.29e-04	-0.05	1.10e-04	-6.81e-05	0.0
57	32	-1.68e-03	-5.14e-03	-0.05	1.23e-04	-6.10e-05	0.0
57	36	-1.62e-03	-5.42e-03	-0.05	1.23e-04	-6.01e-05	0.0
57	43	-5.30e-03	-1.39e-04	-0.05	1.10e-04	-7.51e-05	0.0
57	64	-2.01e-03	-6.84e-03	-0.05	1.30e-04	-6.38e-05	0.0
57	68	-1.91e-03	-7.28e-03	-0.05	1.30e-04	-6.23e-05	0.0
57	70	-1.25e-03	-2.69e-03	-0.05	1.32e-04	-6.26e-05	0.0
57	72	-1.15e-03	-2.35e-03	-0.05	1.16e-04	-5.75e-05	0.0
58	2	-1.32e-03	-2.98e-03	-0.06	1.46e-04	-6.54e-05	0.0
58	11	-3.46e-03	-5.84e-04	-0.04	9.34e-05	-5.52e-05	0.0
58	12	-3.36e-03	-2.34e-03	-0.05	9.78e-05	-5.56e-05	0.0
58	36	-1.43e-03	-4.97e-03	-0.04	1.01e-04	-4.77e-05	0.0
58	43	-4.97e-03	1.88e-04	-0.05	9.36e-05	-6.15e-05	0.0
58	44	-4.81e-03	-2.61e-03	-0.05	1.01e-04	-6.20e-05	0.0
58	68	-1.74e-03	-6.79e-03	-0.05	1.06e-04	-4.95e-05	0.0
58	70	-9.93e-04	-2.24e-03	-0.05	1.10e-04	-4.94e-05	0.0
58	72	-9.19e-04	-1.96e-03	-0.04	9.64e-05	-4.56e-05	0.0
59	2	-1.06e-03	-2.25e-03	-0.05	1.10e-04	-5.25e-05	0.0
59	11	-3.22e-03	-1.40e-04	-0.04	7.14e-05	-4.51e-05	0.0
59	12	-3.14e-03	-1.87e-03	-0.04	7.42e-05	-4.54e-05	0.0
59	36	-1.30e-03	-4.45e-03	-0.04	7.53e-05	-3.87e-05	0.0
59	43	-4.69e-03	6.20e-04	-0.04	7.21e-05	-5.04e-05	0.0
59	44	-4.57e-03	-2.13e-03	-0.04	7.66e-05	-5.08e-05	0.0
59	68	-1.64e-03	-6.23e-03	-0.04	7.83e-05	-4.02e-05	0.0
59	70	-8.00e-04	-1.69e-03	-0.04	8.28e-05	-3.97e-05	0.0
59	72	-7.43e-04	-1.48e-03	-0.04	7.28e-05	-3.68e-05	0.0
60	2	-8.88e-04	-1.44e-03	-0.05	7.08e-05	-4.40e-05	0.0
60	11	-3.05e-03	3.64e-04	-0.04	4.64e-05	-3.83e-05	0.0
60	12	-3.00e-03	-1.34e-03	-0.04	4.81e-05	-3.81e-05	0.0
60	36	-1.23e-03	-3.90e-03	-0.04	4.81e-05	-3.21e-05	0.0
60	43	-4.48e-03	1.12e-03	-0.04	4.72e-05	-4.30e-05	0.0
60	44	-4.40e-03	-1.59e-03	-0.04	4.98e-05	-4.27e-05	0.0
60	68	-1.60e-03	-5.65e-03	-0.04	4.99e-05	-3.31e-05	0.0
60	70	-6.70e-04	-1.08e-03	-0.04	5.31e-05	-3.32e-05	0.0
60	72	-6.26e-04	-9.50e-04	-0.04	4.67e-05	-3.10e-05	0.0
61	2	-7.97e-04	-6.00e-04	-0.05	2.94e-05	-3.95e-05	0.0
61	11	-2.93e-03	9.01e-04	-0.04	1.97e-05	-3.43e-05	0.0
61	12	-2.91e-03	-7.91e-04	-0.04	2.08e-05	-3.43e-05	0.0
61	36	-1.22e-03	-3.34e-03	-0.04	2.06e-05	-2.92e-05	0.0
61	43	-4.34e-03	1.66e-03	-0.04	2.03e-05	-3.84e-05	0.0
61	44	-4.31e-03	-1.03e-03	-0.04	2.20e-05	-3.83e-05	0.0
61	68	-1.62e-03	-5.08e-03	-0.04	2.18e-05	-3.03e-05	0.0
61	70	-6.02e-04	-4.50e-04	-0.04	2.20e-05	-2.98e-05	0.0
61	72	-5.63e-04	-3.96e-04	-0.04	1.94e-05	-2.79e-05	0.0
62	2	-7.83e-04	2.54e-04	-0.05	-1.26e-05	-3.88e-05	0.0
62	15	-2.91e-03	7.31e-05	-0.04	-9.53e-06	-3.36e-05	0.0
62	20	-2.91e-03	-1.12e-03	-0.04	-8.76e-06	-3.36e-05	0.0
62	31	-1.23e-03	3.11e-03	-0.04	-9.34e-06	-2.88e-05	0.0
62	51	-4.30e-03	8.12e-04	-0.04	-1.07e-05	-3.75e-05	0.0
62	52	-4.31e-03	-1.87e-03	-0.04	-9.19e-06	-3.76e-05	0.0
62	63	-1.64e-03	4.85e-03	-0.04	-1.01e-05	-2.99e-05	0.0
62	70	-5.91e-04	1.90e-04	-0.04	-9.46e-06	-2.92e-05	0.0
62	72	-5.53e-04	1.67e-04	-0.04	-8.33e-06	-2.74e-05	0.0
63	2	-8.45e-04	1.10e-03	-0.05	-5.44e-05	-4.18e-05	0.0
63	19	-2.96e-03	1.12e-03	-0.04	-3.72e-05	-3.63e-05	0.0

63	20	-3.00e-03	-5.75e-04	-0.04	-3.58e-05	-3.64e-05	0.0
63	31	-1.22e-03	3.67e-03	-0.04	-3.71e-05	-3.06e-05	0.0
63	51	-4.37e-03	1.37e-03	-0.04	-3.86e-05	-4.06e-05	0.0
63	52	-4.43e-03	-1.33e-03	-0.04	-3.65e-05	-4.09e-05	0.0
63	63	-1.60e-03	5.42e-03	-0.04	-3.85e-05	-3.16e-05	0.0
63	70	-6.37e-04	8.27e-04	-0.04	-4.08e-05	-3.15e-05	0.0
63	72	-5.96e-04	7.27e-04	-0.04	-3.59e-05	-2.94e-05	0.0
64	2	-9.85e-04	1.93e-03	-0.05	-9.48e-05	-4.87e-05	0.0
64	19	-3.09e-03	1.66e-03	-0.04	-6.38e-05	-4.23e-05	0.0
64	20	-3.15e-03	-5.56e-05	-0.04	-6.16e-05	-4.20e-05	0.0
64	31	-1.27e-03	4.23e-03	-0.04	-6.45e-05	-3.60e-05	0.0
64	51	-4.51e-03	1.92e-03	-0.04	-6.59e-05	-4.74e-05	0.0
64	52	-4.61e-03	-8.10e-04	-0.04	-6.23e-05	-4.70e-05	0.0
64	63	-1.61e-03	6.00e-03	-0.04	-6.69e-05	-3.74e-05	0.0
64	70	-7.43e-04	1.44e-03	-0.04	-7.11e-05	-3.67e-05	0.0
64	72	-6.92e-04	1.27e-03	-0.04	-6.25e-05	-3.42e-05	0.0
65	2	-1.21e-03	2.70e-03	-0.06	-1.33e-04	-5.98e-05	0.0
65	19	-3.27e-03	2.16e-03	-0.04	-8.86e-05	-5.12e-05	0.0
65	20	-3.37e-03	4.15e-04	-0.04	-8.49e-05	-5.09e-05	0.0
65	31	-1.37e-03	4.77e-03	-0.04	-9.09e-05	-4.38e-05	0.0
65	51	-4.71e-03	2.43e-03	-0.04	-9.11e-05	-5.72e-05	0.0
65	52	-4.86e-03	-3.48e-04	-0.04	-8.52e-05	-5.67e-05	0.0
65	63	-1.69e-03	6.57e-03	-0.04	-9.48e-05	-4.54e-05	0.0
65	70	-9.11e-04	2.02e-03	-0.04	-9.94e-05	-4.51e-05	0.0
65	72	-8.44e-04	1.77e-03	-0.04	-8.73e-05	-4.18e-05	0.0
66	2	-1.51e-03	3.36e-03	-0.06	-1.65e-04	-7.53e-05	0.0
66	20	-3.64e-03	8.06e-04	-0.05	-1.04e-04	-6.26e-05	0.0
66	31	-1.53e-03	5.25e-03	-0.05	-1.15e-04	-5.47e-05	0.0
66	35	-1.59e-03	4.97e-03	-0.05	-1.15e-04	-5.56e-05	0.0
66	52	-5.18e-03	2.63e-05	-0.05	-1.04e-04	-6.93e-05	0.0
66	63	-1.83e-03	7.09e-03	-0.05	-1.20e-04	-5.67e-05	0.0
66	67	-1.92e-03	6.65e-03	-0.05	-1.21e-04	-5.81e-05	0.0
66	70	-1.14e-03	2.52e-03	-0.05	-1.24e-04	-5.69e-05	0.0
66	72	-1.05e-03	2.21e-03	-0.05	-1.08e-04	-5.24e-05	0.0
67	2	-1.89e-03	3.84e-03	-0.07	-1.88e-04	-9.54e-05	0.0
67	20	-3.94e-03	1.09e-03	-0.05	-1.18e-04	-7.64e-05	0.0
67	31	-1.75e-03	5.62e-03	-0.05	-1.33e-04	-6.93e-05	0.0
67	35	-1.82e-03	5.35e-03	-0.05	-1.33e-04	-7.03e-05	0.0
67	52	-5.51e-03	2.96e-04	-0.05	-1.17e-04	-8.35e-05	0.0
67	63	-2.03e-03	7.51e-03	-0.06	-1.41e-04	-7.20e-05	0.0
67	67	-2.14e-03	7.06e-03	-0.06	-1.41e-04	-7.37e-05	0.0
67	70	-1.43e-03	2.88e-03	-0.06	-1.41e-04	-7.20e-05	0.0
67	72	-1.31e-03	2.52e-03	-0.05	-1.24e-04	-6.60e-05	0.0
68	2	-2.29e-03	4.05e-03	-0.08	-1.98e-04	-1.18e-04	0.0
68	15	-4.27e-03	2.52e-03	-0.06	-1.30e-04	-9.41e-05	0.0
68	31	-2.00e-03	5.80e-03	-0.06	-1.41e-04	-8.67e-05	0.0
68	35	-2.08e-03	5.52e-03	-0.06	-1.41e-04	-8.78e-05	0.0
68	47	-5.88e-03	2.49e-03	-0.06	-1.33e-04	-1.03e-04	0.0
68	63	-2.26e-03	7.71e-03	-0.06	-1.50e-04	-9.11e-05	0.0
68	67	-2.40e-03	7.27e-03	-0.06	-1.51e-04	-9.29e-05	0.0
68	70	-1.73e-03	3.04e-03	-0.06	-1.49e-04	-8.89e-05	0.0
68	72	-1.58e-03	2.65e-03	-0.06	-1.30e-04	-8.10e-05	0.0
69	2	-1.62e-03	-3.60e-03	-0.08	1.78e-04	-8.32e-05	0.0
69	8	-3.71e-03	-2.22e-03	-0.06	1.15e-04	-6.59e-05	0.0
69	32	-1.60e-03	-5.14e-03	-0.06	1.25e-04	-6.31e-05	0.0
69	36	-1.53e-03	-5.41e-03	-0.06	1.25e-04	-6.25e-05	0.0
69	40	-5.24e-03	-2.19e-03	-0.06	1.17e-04	-7.12e-05	0.0
69	64	-1.89e-03	-6.84e-03	-0.06	1.33e-04	-6.67e-05	0.0
69	68	-1.77e-03	-7.26e-03	-0.06	1.33e-04	-6.58e-05	0.0
69	70	-1.22e-03	-2.69e-03	-0.06	1.33e-04	-6.29e-05	0.0
69	72	-1.13e-03	-2.35e-03	-0.06	1.16e-04	-5.81e-05	0.0
70	2	-1.45e-03	-3.53e-03	-0.07	1.75e-04	-7.40e-05	0.0
70	11	-3.58e-03	-8.94e-04	-0.05	1.08e-04	-5.80e-05	0.0
70	32	-1.50e-03	-5.08e-03	-0.05	1.23e-04	-5.57e-05	0.0
70	36	-1.43e-03	-5.35e-03	-0.05	1.23e-04	-5.51e-05	0.0
70	43	-5.09e-03	-1.13e-04	-0.05	1.06e-04	-6.23e-05	0.0
70	64	-1.79e-03	-6.77e-03	-0.05	1.30e-04	-5.85e-05	0.0
70	68	-1.69e-03	-7.19e-03	-0.05	1.30e-04	-5.76e-05	0.0
70	70	-1.10e-03	-2.64e-03	-0.06	1.31e-04	-5.60e-05	0.0
70	72	-1.02e-03	-2.31e-03	-0.05	1.14e-04	-5.18e-05	0.0
71	2	-1.18e-03	-3.22e-03	-0.06	1.59e-04	-5.93e-05	0.0
71	11	-3.35e-03	-7.19e-04	-0.05	9.88e-05	-4.81e-05	0.0
71	32	-1.34e-03	-4.84e-03	-0.05	1.11e-04	-4.45e-05	0.0
71	36	-1.29e-03	-5.11e-03	-0.05	1.11e-04	-4.39e-05	0.0
71	43	-4.84e-03	5.21e-05	-0.05	9.78e-05	-5.24e-05	0.0
71	64	-1.65e-03	-6.50e-03	-0.05	1.17e-04	-4.65e-05	0.0

71	68	-1.56e-03	-6.92e-03	-0.05	1.17e-04	-4.56e-05	0.0
71	70	-8.93e-04	-2.41e-03	-0.05	1.19e-04	-4.49e-05	0.0
71	72	-8.33e-04	-2.10e-03	-0.05	1.04e-04	-4.18e-05	0.0
72	2	-9.48e-04	-2.70e-03	-0.06	1.34e-04	-4.73e-05	0.0
72	11	-3.15e-03	-4.17e-04	-0.04	8.37e-05	-3.97e-05	0.0
72	32	-1.22e-03	-4.47e-03	-0.04	9.19e-05	-3.57e-05	0.0
72	36	-1.17e-03	-4.73e-03	-0.04	9.18e-05	-3.52e-05	0.0
72	43	-4.61e-03	3.43e-04	-0.04	8.32e-05	-4.36e-05	0.0
72	64	-1.54e-03	-6.10e-03	-0.04	9.63e-05	-3.73e-05	0.0
72	68	-1.47e-03	-6.51e-03	-0.04	9.61e-05	-3.65e-05	0.0
72	70	-7.17e-04	-2.02e-03	-0.04	1.00e-04	-3.57e-05	0.0
72	72	-6.73e-04	-1.77e-03	-0.04	8.75e-05	-3.35e-05	0.0
73	2	-7.72e-04	-2.05e-03	-0.05	1.01e-04	-3.83e-05	0.0
73	11	-2.98e-03	-2.54e-05	-0.04	6.42e-05	-3.30e-05	0.0
73	32	-1.13e-03	-4.01e-03	-0.04	6.92e-05	-2.92e-05	0.0
73	36	-1.10e-03	-4.27e-03	-0.04	6.90e-05	-2.88e-05	0.0
73	43	-4.41e-03	7.24e-04	-0.04	6.42e-05	-3.66e-05	0.0
73	64	-1.48e-03	-5.61e-03	-0.04	7.21e-05	-3.05e-05	0.0
73	68	-1.43e-03	-6.03e-03	-0.04	7.18e-05	-2.99e-05	0.0
73	70	-5.84e-04	-1.54e-03	-0.04	7.59e-05	-2.90e-05	0.0
73	72	-5.50e-04	-1.35e-03	-0.04	6.65e-05	-2.73e-05	0.0
74	2	-6.54e-04	-1.32e-03	-0.05	6.53e-05	-3.24e-05	0.0
74	11	-2.85e-03	4.26e-04	-0.04	4.18e-05	-2.84e-05	0.0
74	12	-2.80e-03	-1.26e-03	-0.04	4.34e-05	-2.83e-05	0.0
74	36	-1.07e-03	-3.77e-03	-0.04	4.43e-05	-2.39e-05	0.0
74	43	-4.26e-03	1.17e-03	-0.04	4.20e-05	-3.18e-05	0.0
74	44	-4.18e-03	-1.51e-03	-0.04	4.47e-05	-3.15e-05	0.0
74	68	-1.43e-03	-5.50e-03	-0.04	4.61e-05	-2.46e-05	0.0
74	70	-4.94e-04	-9.91e-04	-0.04	4.89e-05	-2.45e-05	0.0
74	72	-4.67e-04	-8.68e-04	-0.04	4.29e-05	-2.31e-05	0.0
75	1	-5.47e-04	-4.56e-04	-0.04	2.25e-05	-2.71e-05	0.0
75	2	-5.91e-04	-5.52e-04	-0.04	2.72e-05	-2.93e-05	0.0
75	11	-2.76e-03	9.12e-04	-0.03	1.76e-05	-2.57e-05	0.0
75	12	-2.74e-03	-7.59e-04	-0.03	1.87e-05	-2.56e-05	0.0
75	36	-1.08e-03	-3.26e-03	-0.03	1.92e-05	-2.19e-05	0.0
75	43	-4.15e-03	1.65e-03	-0.03	1.78e-05	-2.87e-05	0.0
75	44	-4.11e-03	-1.00e-03	-0.03	1.95e-05	-2.86e-05	0.0
75	68	-1.47e-03	-4.98e-03	-0.03	2.03e-05	-2.27e-05	0.0
75	69	-4.17e-04	-3.49e-04	-0.03	1.72e-05	-2.06e-05	0.0
75	70	-4.46e-04	-4.13e-04	-0.03	2.04e-05	-2.21e-05	0.0
75	71	-4.17e-04	-3.49e-04	-0.03	1.72e-05	-2.06e-05	0.0
75	72	-4.23e-04	-3.62e-04	-0.03	1.78e-05	-2.09e-05	0.0
76	1	-5.38e-04	1.93e-04	-0.04	-9.64e-06	-2.66e-05	0.0
76	2	-5.81e-04	2.34e-04	-0.04	-1.17e-05	-2.88e-05	0.0
76	19	-2.74e-03	5.59e-04	-0.03	-8.59e-06	-2.52e-05	0.0
76	20	-2.75e-03	-1.11e-03	-0.03	-7.59e-06	-2.52e-05	0.0
76	31	-1.09e-03	3.06e-03	-0.03	-8.90e-06	-2.16e-05	0.0
76	51	-4.11e-03	8.02e-04	-0.03	-9.29e-06	-2.81e-05	0.0
76	52	-4.12e-03	-1.85e-03	-0.03	-7.70e-06	-2.81e-05	0.0
76	63	-1.49e-03	4.78e-03	-0.03	-9.79e-06	-2.24e-05	0.0
76	69	-4.10e-04	1.48e-04	-0.03	-7.39e-06	-2.03e-05	0.0
76	70	-4.39e-04	1.75e-04	-0.03	-8.74e-06	-2.17e-05	0.0
76	71	-4.10e-04	1.48e-04	-0.03	-7.39e-06	-2.03e-05	0.0
76	72	-4.16e-04	1.53e-04	-0.03	-7.66e-06	-2.06e-05	0.0
77	2	-6.23e-04	1.01e-03	-0.05	-5.02e-05	-3.08e-05	0.0
77	19	-2.78e-03	1.06e-03	-0.04	-3.36e-05	-2.70e-05	0.0
77	20	-2.82e-03	-6.15e-04	-0.04	-3.22e-05	-2.71e-05	0.0
77	31	-1.06e-03	3.57e-03	-0.04	-3.42e-05	-2.29e-05	0.0
77	51	-4.16e-03	1.31e-03	-0.04	-3.46e-05	-3.01e-05	0.0
77	52	-4.22e-03	-1.36e-03	-0.04	-3.24e-05	-3.03e-05	0.0
77	63	-1.43e-03	5.29e-03	-0.04	-3.57e-05	-2.36e-05	0.0
77	70	-4.71e-04	7.59e-04	-0.04	-3.76e-05	-2.33e-05	0.0
77	72	-4.46e-04	6.64e-04	-0.04	-3.29e-05	-2.20e-05	0.0
78	2	-7.20e-04	1.76e-03	-0.05	-8.72e-05	-3.56e-05	0.0
78	19	-2.86e-03	1.55e-03	-0.04	-5.77e-05	-3.11e-05	0.0
78	20	-2.93e-03	-1.48e-04	-0.04	-5.54e-05	-3.08e-05	0.0
78	31	-1.08e-03	4.07e-03	-0.04	-5.92e-05	-2.68e-05	0.0
78	51	-4.25e-03	1.80e-03	-0.04	-5.91e-05	-3.47e-05	0.0
78	52	-4.36e-03	-8.92e-04	-0.04	-5.55e-05	-3.43e-05	0.0
78	63	-1.42e-03	5.82e-03	-0.04	-6.15e-05	-2.79e-05	0.0
78	70	-5.44e-04	1.32e-03	-0.04	-6.53e-05	-2.69e-05	0.0
78	72	-5.13e-04	1.16e-03	-0.04	-5.72e-05	-2.54e-05	0.0
79	2	-8.73e-04	2.45e-03	-0.05	-1.21e-04	-4.33e-05	0.0
79	20	-3.08e-03	2.70e-04	-0.04	-7.62e-05	-3.67e-05	0.0
79	31	-1.14e-03	4.55e-03	-0.04	-8.29e-05	-3.23e-05	0.0
79	35	-1.18e-03	4.29e-03	-0.04	-8.31e-05	-3.28e-05	0.0

79	52	-4.54e-03	-4.82e-04	-0.04	-7.59e-05	-4.05e-05	0.0
79	63	-1.45e-03	6.32e-03	-0.04	-8.66e-05	-3.36e-05	0.0
79	67	-1.51e-03	5.91e-03	-0.04	-8.68e-05	-3.43e-05	0.0
79	70	-6.61e-04	1.83e-03	-0.04	-9.08e-05	-3.27e-05	0.0
79	72	-6.21e-04	1.60e-03	-0.04	-7.95e-05	-3.07e-05	0.0
80	2	-1.08e-03	3.02e-03	-0.06	-1.50e-04	-5.41e-05	0.0
80	20	-3.27e-03	6.13e-04	-0.05	-9.33e-05	-4.45e-05	0.0
80	31	-1.23e-03	4.97e-03	-0.05	-1.04e-04	-4.01e-05	0.0
80	35	-1.29e-03	4.70e-03	-0.05	-1.04e-04	-4.06e-05	0.0
80	52	-4.76e-03	-1.50e-04	-0.05	-9.25e-05	-4.86e-05	0.0
80	63	-1.52e-03	6.77e-03	-0.05	-1.09e-04	-4.16e-05	0.0
80	67	-1.60e-03	6.35e-03	-0.05	-1.09e-04	-4.25e-05	0.0
80	70	-8.20e-04	2.26e-03	-0.05	-1.12e-04	-4.09e-05	0.0
80	72	-7.66e-04	1.98e-03	-0.05	-9.80e-05	-3.82e-05	0.0
81	2	-1.34e-03	3.42e-03	-0.07	-1.69e-04	-6.79e-05	0.0
81	20	-3.49e-03	8.46e-04	-0.05	-1.05e-04	-5.38e-05	0.0
81	31	-1.37e-03	5.27e-03	-0.05	-1.19e-04	-5.04e-05	0.0
81	35	-1.43e-03	5.00e-03	-0.05	-1.19e-04	-5.09e-05	0.0
81	52	-5.00e-03	7.37e-05	-0.05	-1.04e-04	-5.80e-05	0.0
81	63	-1.63e-03	7.10e-03	-0.05	-1.25e-04	-5.25e-05	0.0
81	67	-1.73e-03	6.68e-03	-0.05	-1.25e-04	-5.34e-05	0.0
81	70	-1.01e-03	2.56e-03	-0.05	-1.27e-04	-5.14e-05	0.0
81	72	-9.44e-04	2.24e-03	-0.05	-1.11e-04	-4.77e-05	0.0
82	2	-1.62e-03	3.58e-03	-0.08	-1.77e-04	-8.33e-05	0.0
82	15	-3.71e-03	2.22e-03	-0.06	-1.15e-04	-6.59e-05	0.0
82	31	-1.52e-03	5.40e-03	-0.06	-1.25e-04	-6.25e-05	0.0
82	35	-1.60e-03	5.13e-03	-0.06	-1.25e-04	-6.31e-05	0.0
82	47	-5.25e-03	2.19e-03	-0.06	-1.17e-04	-7.11e-05	0.0
82	63	-1.77e-03	7.25e-03	-0.06	-1.33e-04	-6.58e-05	0.0
82	67	-1.88e-03	6.83e-03	-0.06	-1.33e-04	-6.67e-05	0.0
82	70	-1.23e-03	2.68e-03	-0.06	-1.33e-04	-6.30e-05	0.0
82	72	-1.13e-03	2.34e-03	-0.06	-1.16e-04	-5.81e-05	0.0
83	2	-7.69e-04	-3.33e-03	-0.07	1.66e-04	-4.01e-05	0.0
83	11	-3.08e-03	-7.92e-04	-0.05	1.01e-04	-3.25e-05	0.0
83	32	-1.01e-03	-4.90e-03	-0.06	1.16e-04	-3.32e-05	0.0
83	36	-9.44e-04	-5.16e-03	-0.06	1.16e-04	-3.30e-05	0.0
83	43	-4.56e-03	-2.87e-05	-0.05	9.98e-05	-3.44e-05	0.0
83	64	-1.26e-03	-6.56e-03	-0.06	1.23e-04	-3.54e-05	0.0
83	68	-1.17e-03	-6.97e-03	-0.06	1.23e-04	-3.51e-05	0.0
83	70	-5.87e-04	-2.49e-03	-0.06	1.24e-04	-3.05e-05	0.0
83	72	-5.72e-04	-2.17e-03	-0.05	1.08e-04	-2.96e-05	0.0
84	2	-6.97e-04	-3.28e-03	-0.07	1.63e-04	-3.59e-05	0.0
84	11	-3.01e-03	-7.65e-04	-0.05	1.00e-04	-2.98e-05	0.0
84	32	-9.74e-04	-4.86e-03	-0.05	1.14e-04	-2.96e-05	0.0
84	36	-9.18e-04	-5.11e-03	-0.05	1.14e-04	-2.94e-05	0.0
84	43	-4.48e-03	-5.88e-06	-0.05	9.86e-05	-3.18e-05	0.0
84	64	-1.24e-03	-6.51e-03	-0.05	1.20e-04	-3.14e-05	0.0
84	68	-1.15e-03	-6.91e-03	-0.05	1.20e-04	-3.11e-05	0.0
84	70	-5.31e-04	-2.45e-03	-0.05	1.22e-04	-2.74e-05	0.0
84	72	-5.19e-04	-2.13e-03	-0.05	1.06e-04	-2.66e-05	0.0
85	2	-5.78e-04	-3.00e-03	-0.06	1.49e-04	-2.94e-05	0.0
85	11	-2.89e-03	-6.06e-04	-0.05	9.20e-05	-2.53e-05	0.0
85	32	-9.26e-04	-4.65e-03	-0.05	1.03e-04	-2.41e-05	0.0
85	36	-8.78e-04	-4.90e-03	-0.05	1.03e-04	-2.39e-05	0.0
85	43	-4.34e-03	1.44e-04	-0.05	9.10e-05	-2.74e-05	0.0
85	64	-1.22e-03	-6.28e-03	-0.05	1.09e-04	-2.55e-05	0.0
85	68	-1.14e-03	-6.68e-03	-0.05	1.09e-04	-2.52e-05	0.0
85	70	-4.41e-04	-2.24e-03	-0.05	1.12e-04	-2.24e-05	0.0
85	72	-4.33e-04	-1.95e-03	-0.05	9.72e-05	-2.18e-05	0.0
86	2	-4.77e-04	-2.53e-03	-0.06	1.26e-04	-2.39e-05	0.0
86	11	-2.78e-03	-3.30e-04	-0.04	7.81e-05	-2.15e-05	0.0
86	32	-8.90e-04	-4.31e-03	-0.04	8.62e-05	-1.97e-05	0.0
86	36	-8.52e-04	-4.56e-03	-0.04	8.61e-05	-1.95e-05	0.0
86	43	-4.21e-03	4.12e-04	-0.04	7.74e-05	-2.36e-05	0.0
86	64	-1.20e-03	-5.92e-03	-0.04	9.04e-05	-2.08e-05	0.0
86	68	-1.14e-03	-6.32e-03	-0.04	9.03e-05	-2.05e-05	0.0
86	70	-3.63e-04	-1.89e-03	-0.04	9.42e-05	-1.82e-05	0.0
86	72	-3.58e-04	-1.65e-03	-0.04	8.21e-05	-1.79e-05	0.0
87	2	-4.00e-04	-1.93e-03	-0.05	9.60e-05	-2.00e-05	0.0
87	11	-2.69e-03	3.13e-05	-0.04	5.99e-05	-1.85e-05	0.0
87	32	-8.73e-04	-3.90e-03	-0.04	6.53e-05	-1.65e-05	0.0
87	36	-8.46e-04	-4.14e-03	-0.04	6.52e-05	-1.63e-05	0.0
87	43	-4.09e-03	7.66e-04	-0.04	5.97e-05	-2.06e-05	0.0
87	64	-1.21e-03	-5.48e-03	-0.04	6.81e-05	-1.74e-05	0.0
87	68	-1.17e-03	-5.87e-03	-0.04	6.80e-05	-1.71e-05	0.0
87	70	-3.04e-04	-1.45e-03	-0.04	7.18e-05	-1.52e-05	0.0

87	72	-3.00e-04	-1.26e-03	-0.04	6.27e-05	-1.50e-05	0.0
88	2	-3.48e-04	-1.25e-03	-0.05	6.20e-05	-1.74e-05	0.0
88	11	-2.61e-03	4.51e-04	-0.03	3.90e-05	-1.64e-05	0.0
88	32	-8.76e-04	-3.43e-03	-0.04	4.22e-05	-1.43e-05	0.0
88	36	-8.59e-04	-3.68e-03	-0.04	4.21e-05	-1.41e-05	0.0
88	43	-3.99e-03	1.18e-03	-0.03	3.89e-05	-1.83e-05	0.0
88	64	-1.24e-03	-5.00e-03	-0.04	4.41e-05	-1.50e-05	0.0
88	68	-1.21e-03	-5.39e-03	-0.04	4.38e-05	-1.48e-05	0.0
88	70	-2.65e-04	-9.36e-04	-0.04	4.64e-05	-1.32e-05	0.0
88	72	-2.62e-04	-8.17e-04	-0.03	4.05e-05	-1.30e-05	0.0
89	1	-3.16e-04	-4.29e-04	-0.04	2.13e-05	-1.57e-05	0.0
89	2	-3.22e-04	-5.23e-04	-0.04	2.59e-05	-1.61e-05	0.0
89	11	-2.55e-03	9.06e-04	-0.03	1.63e-05	-1.52e-05	0.0
89	34	4.77e-04	-2.96e-03	-0.03	1.82e-05	-1.09e-05	0.0
89	36	-8.92e-04	-3.20e-03	-0.03	1.83e-05	-1.28e-05	0.0
89	43	-3.91e-03	1.63e-03	-0.03	1.63e-05	-1.71e-05	0.0
89	66	8.99e-04	-4.50e-03	-0.03	1.93e-05	-1.03e-05	0.0
89	68	-1.28e-03	-4.90e-03	-0.03	1.95e-05	-1.32e-05	0.0
89	69	-2.40e-04	-3.29e-04	-0.03	1.63e-05	-1.19e-05	0.0
89	70	-2.44e-04	-3.91e-04	-0.03	1.94e-05	-1.22e-05	0.0
89	71	-2.40e-04	-3.29e-04	-0.03	1.63e-05	-1.19e-05	0.0
89	72	-2.41e-04	-3.42e-04	-0.03	1.69e-05	-1.20e-05	0.0
90	1	-3.12e-04	1.82e-04	-0.04	-9.13e-06	-1.55e-05	0.0
90	2	-3.17e-04	2.22e-04	-0.04	-1.11e-05	-1.58e-05	0.0
90	20	-2.54e-03	-1.09e-03	-0.03	-6.87e-06	-1.50e-05	0.0
90	29	4.63e-04	2.76e-03	-0.03	-8.86e-06	-1.08e-05	0.0
90	31	-9.06e-04	3.01e-03	-0.03	-8.69e-06	-1.26e-05	0.0
90	52	-3.90e-03	-1.82e-03	-0.03	-6.80e-06	-1.68e-05	0.0
90	61	8.76e-04	4.31e-03	-0.03	-9.96e-06	-1.02e-05	0.0
90	63	-1.30e-03	4.70e-03	-0.03	-9.68e-06	-1.32e-05	0.0
90	69	-2.37e-04	1.39e-04	-0.03	-7.00e-06	-1.18e-05	0.0
90	70	-2.41e-04	1.66e-04	-0.03	-8.32e-06	-1.20e-05	0.0
90	71	-2.37e-04	1.39e-04	-0.03	-7.00e-06	-1.18e-05	0.0
90	72	-2.38e-04	1.45e-04	-0.03	-7.26e-06	-1.18e-05	0.0
91	2	-3.36e-04	9.59e-04	-0.04	-4.77e-05	-1.67e-05	0.0
91	20	-2.59e-03	-6.28e-04	-0.03	-3.00e-05	-1.59e-05	0.0
91	29	4.93e-04	3.24e-03	-0.03	-3.24e-05	-1.13e-05	0.0
91	31	-8.67e-04	3.49e-03	-0.03	-3.25e-05	-1.31e-05	0.0
91	52	-3.97e-03	-1.35e-03	-0.03	-3.00e-05	-1.79e-05	0.0
91	61	9.32e-04	4.79e-03	-0.03	-3.38e-05	-1.07e-05	0.0
91	63	-1.23e-03	5.19e-03	-0.03	-3.40e-05	-1.36e-05	0.0
91	70	-2.55e-04	7.18e-04	-0.03	-3.57e-05	-1.27e-05	0.0
91	72	-2.52e-04	6.26e-04	-0.03	-3.12e-05	-1.25e-05	0.0
92	2	-3.78e-04	1.66e-03	-0.05	-8.27e-05	-1.88e-05	0.0
92	20	-2.66e-03	-1.92e-04	-0.04	-5.17e-05	-1.75e-05	0.0
92	31	-8.46e-04	3.96e-03	-0.04	-5.60e-05	-1.53e-05	0.0
92	35	-8.72e-04	3.71e-03	-0.04	-5.62e-05	-1.55e-05	0.0
92	52	-4.06e-03	-9.21e-04	-0.04	-5.16e-05	-1.95e-05	0.0
92	63	-1.18e-03	5.68e-03	-0.04	-5.84e-05	-1.60e-05	0.0
92	67	-1.22e-03	5.29e-03	-0.04	-5.86e-05	-1.63e-05	0.0
92	70	-2.87e-04	1.24e-03	-0.04	-6.19e-05	-1.42e-05	0.0
92	72	-2.84e-04	1.09e-03	-0.04	-5.40e-05	-1.40e-05	0.0
93	2	-4.45e-04	2.30e-03	-0.05	-1.14e-04	-2.22e-05	0.0
93	20	-2.75e-03	1.96e-04	-0.04	-7.11e-05	-2.01e-05	0.0
93	31	-8.44e-04	4.40e-03	-0.04	-7.80e-05	-1.81e-05	0.0
93	35	-8.81e-04	4.15e-03	-0.04	-7.81e-05	-1.83e-05	0.0
93	52	-4.17e-03	-5.40e-04	-0.04	-7.07e-05	-2.22e-05	0.0
93	63	-1.15e-03	6.14e-03	-0.04	-8.16e-05	-1.90e-05	0.0
93	67	-1.20e-03	5.75e-03	-0.04	-8.17e-05	-1.93e-05	0.0
93	70	-3.39e-04	1.72e-03	-0.04	-8.56e-05	-1.69e-05	0.0
93	72	-3.34e-04	1.50e-03	-0.04	-7.47e-05	-1.66e-05	0.0
94	2	-5.38e-04	2.82e-03	-0.06	-1.41e-04	-2.70e-05	0.0
94	20	-2.85e-03	5.10e-04	-0.04	-8.69e-05	-2.36e-05	0.0
94	31	-8.63e-04	4.78e-03	-0.04	-9.68e-05	-2.20e-05	0.0
94	35	-9.09e-04	4.52e-03	-0.04	-9.68e-05	-2.22e-05	0.0
94	52	-4.30e-03	-2.34e-04	-0.04	-8.61e-05	-2.57e-05	0.0
94	63	-1.14e-03	6.55e-03	-0.04	-1.02e-04	-2.31e-05	0.0
94	67	-1.21e-03	6.15e-03	-0.04	-1.02e-04	-2.35e-05	0.0
94	70	-4.10e-04	2.11e-03	-0.05	-1.05e-04	-2.06e-05	0.0
94	72	-4.03e-04	1.84e-03	-0.04	-9.17e-05	-2.02e-05	0.0
95	2	-6.50e-04	3.18e-03	-0.07	-1.59e-04	-3.32e-05	0.0
95	20	-2.97e-03	7.19e-04	-0.05	-9.75e-05	-2.79e-05	0.0
95	31	-8.98e-04	5.04e-03	-0.05	-1.10e-04	-2.71e-05	0.0
95	35	-9.54e-04	4.79e-03	-0.05	-1.10e-04	-2.73e-05	0.0
95	52	-4.43e-03	-3.21e-05	-0.05	-9.63e-05	-3.00e-05	0.0
95	63	-1.14e-03	6.84e-03	-0.05	-1.16e-04	-2.86e-05	0.0

95	67	-1.23e-03	6.44e-03	-0.05	-1.16e-04	-2.89e-05	0.0
95	70	-4.96e-04	2.38e-03	-0.05	-1.19e-04	-2.53e-05	0.0
95	72	-4.85e-04	2.07e-03	-0.05	-1.03e-04	-2.46e-05	0.0
96	2	-7.72e-04	3.32e-03	-0.07	-1.65e-04	-4.01e-05	0.0
96	20	-3.08e-03	7.90e-04	-0.05	-1.01e-04	-3.26e-05	0.0
96	31	-9.41e-04	5.15e-03	-0.06	-1.15e-04	-3.30e-05	0.0
96	35	-1.00e-03	4.89e-03	-0.06	-1.15e-04	-3.32e-05	0.0
96	52	-4.57e-03	3.21e-05	-0.05	-9.96e-05	-3.45e-05	0.0
96	63	-1.16e-03	6.96e-03	-0.06	-1.22e-04	-3.51e-05	0.0
96	67	-1.26e-03	6.56e-03	-0.06	-1.22e-04	-3.54e-05	0.0
96	70	-5.89e-04	2.48e-03	-0.06	-1.24e-04	-3.06e-05	0.0
96	72	-5.74e-04	2.16e-03	-0.05	-1.08e-04	-2.96e-05	0.0
97	2	1.43e-04	-3.27e-03	-0.07	1.63e-04	6.33e-06	0.0
97	10	2.47e-03	-3.29e-03	-0.05	1.04e-04	0.0	0.0
97	32	-3.76e-04	-4.82e-03	-0.05	1.13e-04	-2.68e-06	0.0
97	36	-3.21e-04	-5.06e-03	-0.05	1.13e-04	-2.73e-06	0.0
97	42	3.92e-03	-4.03e-03	-0.05	1.05e-04	0.0	0.0
97	64	-6.06e-04	-6.46e-03	-0.06	1.20e-04	-4.33e-06	0.0
97	68	-5.18e-04	-6.84e-03	-0.06	1.20e-04	-4.42e-06	0.0
97	70	9.79e-05	-2.45e-03	-0.06	1.22e-04	4.30e-06	0.0
97	72	3.01e-05	-2.12e-03	-0.05	1.06e-04	1.03e-06	0.0
98	2	1.16e-04	-3.22e-03	-0.07	1.61e-04	5.13e-06	0.0
98	4	1.18e-04	-2.60e-03	-0.05	1.30e-04	5.37e-06	0.0
98	10	2.44e-03	-3.25e-03	-0.05	1.02e-04	0.0	0.0
98	32	-4.17e-04	-4.77e-03	-0.05	1.11e-04	-2.64e-06	0.0
98	36	-3.66e-04	-5.01e-03	-0.05	1.11e-04	-2.66e-06	0.0
98	42	3.88e-03	-3.99e-03	-0.05	1.03e-04	0.0	0.0
98	64	-6.64e-04	-6.41e-03	-0.05	1.18e-04	-4.04e-06	0.0
98	68	-5.84e-04	-6.79e-03	-0.05	1.18e-04	-4.08e-06	0.0
98	70	7.84e-05	-2.41e-03	-0.05	1.20e-04	3.45e-06	0.0
98	72	1.79e-05	-2.08e-03	-0.05	1.04e-04	0.0	0.0
99	2	7.26e-05	-2.95e-03	-0.06	1.47e-04	3.19e-06	0.0
99	4	8.03e-05	-2.38e-03	-0.05	1.19e-04	3.67e-06	0.0
99	11	-2.42e-03	-5.98e-04	-0.04	9.02e-05	-1.88e-06	0.0
99	32	-4.81e-04	-4.57e-03	-0.05	1.01e-04	-2.68e-06	0.0
99	36	-4.39e-04	-4.81e-03	-0.05	1.01e-04	-2.66e-06	0.0
99	43	-3.85e-03	1.32e-04	-0.04	8.93e-05	-2.48e-06	0.0
99	64	-7.58e-04	-6.19e-03	-0.05	1.07e-04	-3.73e-06	0.0
99	68	-6.90e-04	-6.57e-03	-0.05	1.07e-04	-3.70e-06	0.0
99	70	4.80e-05	-2.20e-03	-0.05	1.10e-04	2.09e-06	0.0
99	71	-1.29e-05	-1.84e-03	-0.04	9.18e-05	0.0	0.0
99	72	0.0	-1.91e-03	-0.05	9.54e-05	0.0	0.0
100	2	3.51e-05	-2.49e-03	-0.05	1.24e-04	1.42e-06	0.0
100	4	4.76e-05	-2.01e-03	-0.04	1.00e-04	2.11e-06	0.0
100	11	-2.41e-03	-3.29e-04	-0.04	7.66e-05	-2.82e-06	0.0
100	34	8.19e-04	-4.24e-03	-0.04	8.42e-05	-1.88e-06	0.0
100	36	-5.08e-04	-4.49e-03	-0.04	8.47e-05	-2.75e-06	0.0
100	43	-3.81e-03	3.94e-04	-0.04	7.60e-05	-3.63e-06	0.0
100	66	1.32e-03	-5.83e-03	-0.04	8.81e-05	-2.12e-06	0.0
100	68	-7.92e-04	-6.22e-03	-0.04	8.89e-05	-3.50e-06	0.0
100	69	-2.64e-05	-1.56e-03	-0.04	7.76e-05	-1.45e-06	0.0
100	70	2.14e-05	-1.86e-03	-0.04	9.30e-05	0.0	0.0
100	71	-2.64e-05	-1.56e-03	-0.04	7.76e-05	-1.45e-06	0.0
100	72	-1.68e-05	-1.62e-03	-0.04	8.07e-05	0.0	0.0
101	1	-5.13e-05	-1.55e-03	-0.05	7.75e-05	-2.74e-06	0.0
101	2	4.20e-06	-1.91e-03	-0.05	9.50e-05	0.0	0.0
101	11	-2.38e-03	2.41e-05	-0.04	5.89e-05	-3.60e-06	0.0
101	34	7.61e-04	-3.84e-03	-0.04	6.39e-05	-2.02e-06	0.0
101	36	-5.74e-04	-4.08e-03	-0.04	6.43e-05	-2.94e-06	0.0
101	43	-3.77e-03	7.41e-04	-0.04	5.86e-05	-4.54e-06	0.0
101	66	1.23e-03	-5.40e-03	-0.04	6.66e-05	-2.03e-06	0.0
101	68	-8.91e-04	-5.78e-03	-0.04	6.72e-05	-3.49e-06	0.0
101	69	-3.75e-05	-1.19e-03	-0.04	5.94e-05	-2.00e-06	0.0
101	70	0.0	-1.43e-03	-0.04	7.11e-05	0.0	0.0
101	71	-3.75e-05	-1.19e-03	-0.04	5.94e-05	-2.00e-06	0.0
101	72	-3.01e-05	-1.24e-03	-0.04	6.17e-05	-1.65e-06	0.0
102	1	-6.24e-05	-1.01e-03	-0.04	5.02e-05	-3.30e-06	0.0
102	2	-1.86e-05	-1.24e-03	-0.05	6.15e-05	-1.26e-06	0.0
102	11	-2.36e-03	4.35e-04	-0.03	3.82e-05	-4.13e-06	0.0
102	34	7.07e-04	-3.39e-03	-0.03	4.14e-05	-2.18e-06	0.0
102	36	-6.36e-04	-3.63e-03	-0.03	4.16e-05	-3.14e-06	0.0
102	43	-3.73e-03	1.15e-03	-0.03	3.81e-05	-5.14e-06	0.0
102	66	1.15e-03	-4.93e-03	-0.03	4.31e-05	-2.03e-06	0.0
102	68	-9.85e-04	-5.31e-03	-0.03	4.34e-05	-3.56e-06	0.0
102	69	-4.59e-05	-7.73e-04	-0.03	3.85e-05	-2.43e-06	0.0
102	70	-1.67e-05	-9.25e-04	-0.03	4.60e-05	-1.06e-06	0.0

102	71	-4.59e-05	-7.73e-04	-0.03	3.85e-05	-2.43e-06	0.0
102	72	-4.00e-05	-8.03e-04	-0.03	4.00e-05	-2.15e-06	0.0
103	1	-6.89e-05	-4.22e-04	-0.04	2.10e-05	-3.64e-06	0.0
103	2	-3.17e-05	-5.17e-04	-0.04	2.57e-05	-1.92e-06	0.0
103	11	-2.33e-03	8.83e-04	-0.03	1.59e-05	-4.40e-06	0.0
103	18	2.21e-03	-7.45e-04	-0.03	1.65e-05	-1.03e-06	0.0
103	36	-6.94e-04	-3.16e-03	-0.03	1.81e-05	-3.25e-06	0.0
103	43	-3.68e-03	1.59e-03	-0.03	1.58e-05	-5.42e-06	0.0
103	50	3.55e-03	-9.94e-04	-0.03	1.68e-05	0.0	0.0
103	68	-1.07e-03	-4.83e-03	-0.03	1.94e-05	-3.59e-06	0.0
103	69	-5.08e-05	-3.24e-04	-0.03	1.61e-05	-2.68e-06	0.0
103	70	-2.60e-05	-3.87e-04	-0.03	1.92e-05	-1.54e-06	0.0
103	71	-5.08e-05	-3.24e-04	-0.03	1.61e-05	-2.68e-06	0.0
103	72	-4.59e-05	-3.36e-04	-0.03	1.67e-05	-2.45e-06	0.0
104	1	-7.03e-05	1.79e-04	-0.04	-9.01e-06	-3.69e-06	0.0
104	2	-3.42e-05	2.20e-04	-0.04	-1.10e-05	-2.03e-06	0.0
104	9	2.21e-03	5.55e-04	-0.03	-7.30e-06	-1.04e-06	0.0
104	20	-2.33e-03	-1.06e-03	-0.03	-6.63e-06	-4.43e-06	0.0
104	31	-7.13e-04	2.97e-03	-0.03	-8.82e-06	-3.26e-06	0.0
104	41	3.54e-03	8.02e-04	-0.03	-7.54e-06	0.0	0.0
104	52	-3.67e-03	-1.77e-03	-0.03	-6.46e-06	-5.43e-06	0.0
104	63	-1.10e-03	4.64e-03	-0.03	-9.95e-06	-3.58e-06	0.0
104	69	-5.19e-05	1.37e-04	-0.03	-6.91e-06	-2.72e-06	0.0
104	70	-2.78e-05	1.64e-04	-0.03	-8.26e-06	-1.61e-06	0.0
104	71	-5.19e-05	1.37e-04	-0.03	-6.91e-06	-2.72e-06	0.0
104	72	-4.71e-05	1.43e-04	-0.03	-7.18e-06	-2.50e-06	0.0
105	1	-6.65e-05	7.74e-04	-0.04	-3.87e-05	-3.45e-06	0.0
105	2	-2.60e-05	9.48e-04	-0.04	-4.74e-05	-1.57e-06	0.0
105	9	2.21e-03	1.01e-03	-0.03	-3.02e-05	0.0	0.0
105	20	-2.36e-03	-6.09e-04	-0.03	-2.94e-05	-4.24e-06	0.0
105	31	-6.57e-04	3.44e-03	-0.03	-3.22e-05	-3.19e-06	0.0
105	41	3.54e-03	1.26e-03	-0.03	-3.05e-05	0.0	0.0
105	52	-3.72e-03	-1.32e-03	-0.03	-2.93e-05	-5.24e-06	0.0
105	63	-1.02e-03	5.12e-03	-0.03	-3.38e-05	-3.58e-06	0.0
105	69	-4.90e-05	5.93e-04	-0.03	-2.96e-05	-2.54e-06	0.0
105	70	-2.20e-05	7.10e-04	-0.03	-3.54e-05	-1.28e-06	0.0
105	71	-4.90e-05	5.93e-04	-0.03	-2.96e-05	-2.54e-06	0.0
105	72	-4.36e-05	6.17e-04	-0.03	-3.08e-05	-2.29e-06	0.0
106	1	-5.76e-05	1.34e-03	-0.05	-6.69e-05	-2.96e-06	0.0
106	2	-7.47e-06	1.64e-03	-0.05	-8.19e-05	0.0	0.0
106	20	-2.38e-03	-1.81e-04	-0.04	-5.08e-05	-3.79e-06	0.0
106	29	7.38e-04	3.66e-03	-0.04	-5.50e-05	-2.09e-06	0.0
106	31	-5.97e-04	3.90e-03	-0.04	-5.53e-05	-3.01e-06	0.0
106	52	-3.76e-03	-8.93e-04	-0.04	-5.06e-05	-4.74e-06	0.0
106	61	1.20e-03	5.21e-03	-0.04	-5.73e-05	-2.03e-06	0.0
106	63	-9.24e-04	5.60e-03	-0.04	-5.77e-05	-3.50e-06	0.0
106	69	-4.23e-05	1.03e-03	-0.04	-5.13e-05	-2.17e-06	0.0
106	70	-8.87e-06	1.23e-03	-0.04	-6.13e-05	0.0	0.0
106	71	-4.23e-05	1.03e-03	-0.04	-5.13e-05	-2.17e-06	0.0
106	72	-3.56e-05	1.07e-03	-0.04	-5.33e-05	-1.85e-06	0.0
107	1	-4.47e-05	1.85e-03	-0.05	-9.22e-05	-2.29e-06	0.0
107	2	2.00e-05	2.27e-03	-0.05	-1.13e-04	0.0	0.0
107	20	-2.40e-03	1.98e-04	-0.04	-6.99e-05	-3.09e-06	0.0
107	29	7.94e-04	4.08e-03	-0.04	-7.64e-05	-1.93e-06	0.0
107	31	-5.32e-04	4.33e-03	-0.04	-7.68e-05	-2.80e-06	0.0
107	52	-3.80e-03	-5.20e-04	-0.04	-6.94e-05	-3.94e-06	0.0
107	61	1.28e-03	5.66e-03	-0.04	-7.98e-05	-2.07e-06	0.0
107	63	-8.27e-04	6.05e-03	-0.04	-8.04e-05	-3.46e-06	0.0
107	69	-3.25e-05	1.41e-03	-0.04	-7.07e-05	-1.66e-06	0.0
107	70	1.06e-05	1.69e-03	-0.04	-8.46e-05	0.0	0.0
107	71	-3.25e-05	1.41e-03	-0.04	-7.07e-05	-1.66e-06	0.0
107	72	-2.39e-05	1.47e-03	-0.04	-7.35e-05	-1.25e-06	0.0
108	2	5.47e-05	2.78e-03	-0.06	-1.39e-04	2.48e-06	0.0
108	4	6.49e-05	2.24e-03	-0.05	-1.12e-04	3.04e-06	0.0
108	20	-2.42e-03	5.03e-04	-0.04	-8.52e-05	-2.23e-06	0.0
108	29	8.54e-04	4.44e-03	-0.04	-9.44e-05	-1.84e-06	0.0
108	31	-4.64e-04	4.69e-03	-0.04	-9.50e-05	-2.67e-06	0.0
108	52	-3.84e-03	-2.21e-04	-0.04	-8.45e-05	-2.91e-06	0.0
108	61	1.37e-03	6.04e-03	-0.04	-9.90e-05	-2.27e-06	0.0
108	63	-7.26e-04	6.44e-03	-0.04	-9.99e-05	-3.58e-06	0.0
108	70	3.52e-05	2.08e-03	-0.04	-1.04e-04	1.59e-06	0.0
108	71	-2.02e-05	1.73e-03	-0.04	-8.66e-05	-1.08e-06	0.0
108	72	-9.11e-06	1.80e-03	-0.04	-9.00e-05	0.0	0.0
109	2	9.54e-05	3.12e-03	-0.07	-1.56e-04	4.32e-06	0.0
109	4	1.00e-04	2.52e-03	-0.05	-1.26e-04	4.66e-06	0.0
109	20	-2.44e-03	7.07e-04	-0.05	-9.55e-05	-1.27e-06	0.0

109	31	-3.93e-04	4.94e-03	-0.05	-1.08e-04	-2.66e-06	0.0
109	35	-4.43e-04	4.71e-03	-0.05	-1.08e-04	-2.66e-06	0.0
109	52	-3.87e-03	-2.45e-05	-0.05	-9.44e-05	-1.73e-06	0.0
109	63	-6.21e-04	6.71e-03	-0.05	-1.14e-04	-3.91e-06	0.0
109	67	-7.01e-04	6.33e-03	-0.05	-1.14e-04	-3.91e-06	0.0
109	70	6.40e-05	2.34e-03	-0.05	-1.17e-04	2.88e-06	0.0
109	72	8.33e-06	2.02e-03	-0.05	-1.01e-04	0.0	0.0
110	2	1.40e-04	3.26e-03	-0.07	-1.63e-04	6.28e-06	0.0
110	17	2.47e-03	3.28e-03	-0.05	-1.04e-04	0.0	0.0
110	31	-3.18e-04	5.05e-03	-0.05	-1.13e-04	-2.77e-06	0.0
110	35	-3.76e-04	4.81e-03	-0.05	-1.13e-04	-2.72e-06	0.0
110	49	3.92e-03	4.01e-03	-0.05	-1.05e-04	0.0	0.0
110	63	-5.12e-04	6.83e-03	-0.06	-1.20e-04	-4.46e-06	0.0
110	67	-6.04e-04	6.45e-03	-0.06	-1.20e-04	-4.38e-06	0.0
110	70	9.60e-05	2.43e-03	-0.06	-1.22e-04	4.26e-06	0.0
110	72	2.82e-05	2.11e-03	-0.05	-1.05e-04	1.00e-06	0.0
111	2	1.03e-03	-3.41e-03	-0.08	1.70e-04	5.17e-05	0.0
111	10	3.01e-03	-3.33e-03	-0.05	1.08e-04	2.91e-05	0.0
111	32	2.35e-04	-4.88e-03	-0.06	1.18e-04	3.31e-05	0.0
111	36	2.86e-04	-5.10e-03	-0.06	1.18e-04	3.29e-05	0.0
111	42	4.44e-03	-4.05e-03	-0.05	1.09e-04	2.92e-05	0.0
111	64	3.09e-05	-6.51e-03	-0.06	1.25e-04	3.55e-05	0.0
111	68	1.13e-04	-6.87e-03	-0.06	1.25e-04	3.52e-05	0.0
111	70	7.67e-04	-2.55e-03	-0.06	1.27e-04	3.84e-05	0.0
111	72	6.18e-04	-2.20e-03	-0.05	1.10e-04	3.09e-05	0.0
112	2	9.07e-04	-3.35e-03	-0.07	1.67e-04	4.52e-05	0.0
112	10	2.92e-03	-3.29e-03	-0.05	1.06e-04	2.54e-05	0.0
112	32	1.21e-04	-4.83e-03	-0.05	1.15e-04	2.84e-05	0.0
112	36	1.68e-04	-5.06e-03	-0.05	1.15e-04	2.83e-05	0.0
112	42	4.34e-03	-4.01e-03	-0.05	1.07e-04	2.55e-05	0.0
112	64	-1.06e-04	-6.46e-03	-0.05	1.22e-04	3.02e-05	0.0
112	68	-3.11e-05	-6.81e-03	-0.05	1.22e-04	3.00e-05	0.0
112	70	6.72e-04	-2.50e-03	-0.05	1.25e-04	3.35e-05	0.0
112	72	5.40e-04	-2.16e-03	-0.05	1.08e-04	2.69e-05	0.0
113	2	7.01e-04	-3.06e-03	-0.06	1.53e-04	3.47e-05	0.0
113	10	2.77e-03	-3.11e-03	-0.05	9.63e-05	1.95e-05	0.0
113	34	1.29e-03	-4.61e-03	-0.05	1.04e-04	2.10e-05	0.0
113	36	-1.78e-05	-4.84e-03	-0.05	1.05e-04	2.12e-05	0.0
113	42	4.18e-03	-3.82e-03	-0.05	9.72e-05	1.96e-05	0.0
113	66	1.82e-03	-6.21e-03	-0.05	1.09e-04	2.20e-05	0.0
113	68	-2.58e-04	-6.58e-03	-0.05	1.11e-04	2.23e-05	0.0
113	70	5.20e-04	-2.29e-03	-0.05	1.14e-04	2.57e-05	0.0
113	72	4.16e-04	-1.98e-03	-0.05	9.88e-05	2.06e-05	0.0
114	2	5.24e-04	-2.59e-03	-0.06	1.29e-04	2.56e-05	0.0
114	10	2.64e-03	-2.80e-03	-0.04	8.11e-05	1.41e-05	0.0
114	34	1.13e-03	-4.27e-03	-0.04	8.72e-05	1.33e-05	0.0
114	36	-1.83e-04	-4.51e-03	-0.04	8.77e-05	1.31e-05	0.0
114	42	4.03e-03	-3.51e-03	-0.04	8.17e-05	1.41e-05	0.0
114	66	1.63e-03	-5.85e-03	-0.04	9.12e-05	1.28e-05	0.0
114	68	-4.61e-04	-6.22e-03	-0.04	9.21e-05	1.24e-05	0.0
114	70	3.89e-04	-1.94e-03	-0.04	9.66e-05	1.90e-05	0.0
114	72	3.09e-04	-1.67e-03	-0.04	8.35e-05	1.51e-05	0.0
115	2	3.84e-04	-1.98e-03	-0.05	9.87e-05	1.86e-05	0.0
115	10	2.53e-03	-2.42e-03	-0.04	6.18e-05	1.05e-05	0.0
115	34	1.00e-03	-3.85e-03	-0.04	6.61e-05	9.80e-06	0.0
115	36	-3.22e-04	-4.08e-03	-0.04	6.65e-05	9.50e-06	0.0
115	42	3.90e-03	-3.11e-03	-0.04	6.21e-05	1.07e-05	0.0
115	66	1.47e-03	-5.40e-03	-0.04	6.89e-05	9.63e-06	0.0
115	68	-6.35e-04	-5.77e-03	-0.04	6.95e-05	9.15e-06	0.0
115	70	2.85e-04	-1.48e-03	-0.04	7.38e-05	1.38e-05	0.0
115	72	2.24e-04	-1.28e-03	-0.04	6.39e-05	1.08e-05	0.0
116	2	2.88e-04	-1.28e-03	-0.05	6.39e-05	1.37e-05	0.0
116	10	2.45e-03	-1.98e-03	-0.03	4.00e-05	7.90e-06	0.0
116	34	9.00e-04	-3.39e-03	-0.03	4.27e-05	7.31e-06	0.0
116	36	-4.32e-04	-3.61e-03	-0.03	4.30e-05	6.94e-06	0.0
116	42	3.80e-03	-2.67e-03	-0.04	4.01e-05	8.24e-06	0.0
116	66	1.34e-03	-4.91e-03	-0.04	4.45e-05	7.31e-06	0.0
116	68	-7.78e-04	-5.27e-03	-0.03	4.49e-05	6.72e-06	0.0
116	70	2.13e-04	-9.60e-04	-0.03	4.78e-05	1.01e-05	0.0
116	72	1.66e-04	-8.30e-04	-0.03	4.13e-05	7.89e-06	0.0
117	2	2.35e-04	-5.37e-04	-0.04	2.66e-05	1.10e-05	0.0
117	10	2.38e-03	-1.51e-03	-0.03	1.68e-05	6.50e-06	0.0
117	18	2.37e-03	-7.65e-04	-0.03	1.71e-05	6.48e-06	0.0
117	36	-5.15e-04	-3.13e-03	-0.03	1.87e-05	5.54e-06	0.0
117	42	3.72e-03	-2.20e-03	-0.03	1.70e-05	6.90e-06	0.0
117	50	3.69e-03	-1.02e-03	-0.03	1.74e-05	6.87e-06	0.0

117	68	-8.92e-04	-4.78e-03	-0.03	2.00e-05	5.38e-06	0.0
117	70	1.74e-04	-4.01e-04	-0.03	1.99e-05	8.18e-06	0.0
117	72	1.34e-04	-3.47e-04	-0.03	1.73e-05	6.28e-06	0.0
118	1	1.52e-04	1.85e-04	-0.04	-9.31e-06	7.12e-06	0.0
118	2	2.26e-04	2.28e-04	-0.04	-1.15e-05	1.06e-05	0.0
118	9	2.36e-03	5.69e-04	-0.03	-7.60e-06	6.25e-06	0.0
118	17	2.37e-03	1.31e-03	-0.03	-7.46e-06	6.26e-06	0.0
118	31	-5.37e-04	2.93e-03	-0.03	-9.07e-06	5.32e-06	0.0
118	41	3.68e-03	8.22e-04	-0.03	-7.87e-06	6.66e-06	0.0
118	49	3.70e-03	2.01e-03	-0.03	-7.64e-06	6.67e-06	0.0
118	63	-9.24e-04	4.58e-03	-0.03	-1.02e-05	5.18e-06	0.0
118	69	1.18e-04	1.42e-04	-0.03	-7.14e-06	5.56e-06	0.0
118	70	1.67e-04	1.71e-04	-0.03	-8.57e-06	7.86e-06	0.0
118	71	1.18e-04	1.42e-04	-0.03	-7.14e-06	5.56e-06	0.0
118	72	1.28e-04	1.48e-04	-0.03	-7.42e-06	6.02e-06	0.0
119	2	2.60e-04	9.85e-04	-0.04	-4.92e-05	1.23e-05	0.0
119	9	2.38e-03	1.04e-03	-0.03	-3.11e-05	7.17e-06	0.0
119	17	2.42e-03	1.78e-03	-0.03	-3.08e-05	7.19e-06	0.0
119	31	-4.65e-04	3.42e-03	-0.03	-3.33e-05	6.25e-06	0.0
119	41	3.70e-03	1.29e-03	-0.03	-3.14e-05	7.52e-06	0.0
119	49	3.77e-03	2.48e-03	-0.03	-3.09e-05	7.55e-06	0.0
119	63	-8.21e-04	5.07e-03	-0.03	-3.49e-05	6.06e-06	0.0
119	70	1.93e-04	7.37e-04	-0.03	-3.68e-05	9.18e-06	0.0
119	72	1.49e-04	6.38e-04	-0.03	-3.18e-05	7.10e-06	0.0
120	2	3.39e-04	1.71e-03	-0.05	-8.51e-05	1.64e-05	0.0
120	17	2.50e-03	2.24e-03	-0.04	-5.33e-05	9.29e-06	0.0
120	29	9.57e-04	3.67e-03	-0.04	-5.69e-05	8.69e-06	0.0
120	31	-3.66e-04	3.90e-03	-0.04	-5.72e-05	8.37e-06	0.0
120	49	3.86e-03	2.93e-03	-0.04	-5.35e-05	9.53e-06	0.0
120	61	1.41e-03	5.20e-03	-0.04	-5.92e-05	8.58e-06	0.0
120	63	-6.90e-04	5.57e-03	-0.04	-5.98e-05	8.08e-06	0.0
120	70	2.51e-04	1.28e-03	-0.04	-6.36e-05	1.22e-05	0.0
120	72	1.96e-04	1.10e-03	-0.04	-5.51e-05	9.52e-06	0.0
121	2	4.61e-04	2.35e-03	-0.05	-1.18e-04	2.26e-05	0.0
121	17	2.60e-03	2.65e-03	-0.04	-7.38e-05	1.25e-05	0.0
121	29	1.07e-03	4.11e-03	-0.04	-7.90e-05	1.18e-05	0.0
121	31	-2.39e-04	4.34e-03	-0.04	-7.95e-05	1.16e-05	0.0
121	49	3.98e-03	3.35e-03	-0.04	-7.42e-05	1.26e-05	0.0
121	61	1.56e-03	5.67e-03	-0.04	-8.25e-05	1.14e-05	0.0
121	63	-5.29e-04	6.04e-03	-0.04	-8.33e-05	1.11e-05	0.0
121	70	3.42e-04	1.76e-03	-0.04	-8.79e-05	1.68e-05	0.0
121	72	2.70e-04	1.52e-03	-0.04	-7.60e-05	1.33e-05	0.0
122	2	6.24e-04	2.89e-03	-0.06	-1.44e-04	3.09e-05	0.0
122	17	2.72e-03	2.99e-03	-0.04	-9.07e-05	1.64e-05	0.0
122	29	1.22e-03	4.48e-03	-0.04	-9.77e-05	1.58e-05	0.0
122	31	-8.39e-05	4.72e-03	-0.04	-9.83e-05	1.56e-05	0.0
122	49	4.12e-03	3.69e-03	-0.04	-9.14e-05	1.61e-05	0.0
122	61	1.74e-03	6.07e-03	-0.04	-1.03e-04	1.50e-05	0.0
122	63	-3.37e-04	6.44e-03	-0.04	-1.04e-04	1.47e-05	0.0
122	70	4.63e-04	2.16e-03	-0.05	-1.08e-04	2.29e-05	0.0
122	72	3.69e-04	1.86e-03	-0.04	-9.31e-05	1.83e-05	0.0
123	2	8.20e-04	3.25e-03	-0.07	-1.62e-04	4.08e-05	0.0
123	17	2.86e-03	3.22e-03	-0.05	-1.02e-04	2.30e-05	0.0
123	31	9.48e-05	4.98e-03	-0.05	-1.12e-04	2.53e-05	0.0
123	35	4.76e-05	4.76e-03	-0.05	-1.12e-04	2.54e-05	0.0
123	49	4.28e-03	3.94e-03	-0.05	-1.03e-04	2.31e-05	0.0
123	63	-1.19e-04	6.73e-03	-0.05	-1.18e-04	2.68e-05	0.0
123	67	-1.94e-04	6.38e-03	-0.05	-1.18e-04	2.69e-05	0.0
123	70	6.08e-04	2.43e-03	-0.05	-1.21e-04	3.03e-05	0.0
123	72	4.87e-04	2.10e-03	-0.05	-1.05e-04	2.43e-05	0.0
124	2	1.03e-03	3.39e-03	-0.08	-1.70e-04	5.17e-05	0.0
124	17	3.01e-03	3.32e-03	-0.05	-1.07e-04	2.92e-05	0.0
124	31	2.90e-04	5.09e-03	-0.06	-1.17e-04	3.29e-05	0.0
124	35	2.35e-04	4.87e-03	-0.06	-1.17e-04	3.31e-05	0.0
124	49	4.44e-03	4.04e-03	-0.05	-1.08e-04	2.93e-05	0.0
124	63	1.19e-04	6.86e-03	-0.06	-1.24e-04	3.52e-05	0.0
124	67	3.25e-05	6.50e-03	-0.06	-1.25e-04	3.55e-05	0.0
124	70	7.66e-04	2.54e-03	-0.06	-1.27e-04	3.83e-05	0.0
124	72	6.16e-04	2.19e-03	-0.05	-1.09e-04	3.09e-05	0.0
125	2	1.82e-03	-3.75e-03	-0.08	1.87e-04	9.19e-05	0.0
125	10	3.50e-03	-3.50e-03	-0.06	1.17e-04	5.44e-05	0.0
125	32	7.72e-04	-5.09e-03	-0.06	1.29e-04	6.04e-05	0.0
125	36	8.22e-04	-5.30e-03	-0.06	1.29e-04	6.02e-05	0.0
125	42	4.92e-03	-4.21e-03	-0.06	1.18e-04	5.43e-05	0.0
125	64	5.90e-04	-6.73e-03	-0.06	1.38e-04	6.39e-05	0.0
125	68	6.69e-04	-7.06e-03	-0.06	1.37e-04	6.35e-05	0.0

125	70	1.36e-03	-2.80e-03	-0.06	1.39e-04	6.85e-05	0.0
125	72	1.14e-03	-2.41e-03	-0.06	1.20e-04	5.73e-05	0.0
126	2	1.60e-03	-3.67e-03	-0.07	1.83e-04	8.01e-05	0.0
126	10	3.35e-03	-3.45e-03	-0.05	1.15e-04	4.73e-05	0.0
126	32	5.86e-04	-5.03e-03	-0.05	1.26e-04	5.19e-05	0.0
126	36	6.32e-04	-5.24e-03	-0.05	1.26e-04	5.17e-05	0.0
126	42	4.76e-03	-4.15e-03	-0.05	1.16e-04	4.72e-05	0.0
126	64	3.74e-04	-6.66e-03	-0.05	1.34e-04	5.44e-05	0.0
126	68	4.47e-04	-6.99e-03	-0.05	1.34e-04	5.41e-05	0.0
126	70	1.19e-03	-2.74e-03	-0.06	1.36e-04	5.97e-05	0.0
126	72	9.95e-04	-2.36e-03	-0.05	1.17e-04	4.99e-05	0.0
127	2	1.23e-03	-3.35e-03	-0.06	1.67e-04	6.13e-05	0.0
127	10	3.10e-03	-3.24e-03	-0.05	1.04e-04	3.61e-05	0.0
127	34	1.63e-03	-4.77e-03	-0.05	1.13e-04	3.84e-05	0.0
127	36	3.35e-04	-5.00e-03	-0.05	1.14e-04	3.87e-05	0.0
127	42	4.50e-03	-3.94e-03	-0.05	1.05e-04	3.60e-05	0.0
127	66	2.17e-03	-6.37e-03	-0.05	1.19e-04	3.96e-05	0.0
127	68	1.01e-04	-6.72e-03	-0.05	1.20e-04	4.00e-05	0.0
127	70	9.19e-04	-2.50e-03	-0.05	1.25e-04	4.57e-05	0.0
127	72	7.68e-04	-2.15e-03	-0.05	1.07e-04	3.82e-05	0.0
128	2	9.23e-04	-2.82e-03	-0.06	1.40e-04	4.54e-05	0.0
128	10	2.88e-03	-2.91e-03	-0.04	8.76e-05	2.67e-05	0.0
128	34	1.39e-03	-4.40e-03	-0.04	9.44e-05	2.78e-05	0.0
128	36	7.87e-05	-4.62e-03	-0.04	9.50e-05	2.80e-05	0.0
128	42	4.26e-03	-3.59e-03	-0.04	8.80e-05	2.66e-05	0.0
128	66	1.88e-03	-5.96e-03	-0.04	9.88e-05	2.83e-05	0.0
128	68	-1.97e-04	-6.31e-03	-0.04	9.99e-05	2.85e-05	0.0
128	70	6.88e-04	-2.11e-03	-0.04	1.05e-04	3.38e-05	0.0
128	72	5.75e-04	-1.82e-03	-0.04	9.04e-05	2.83e-05	0.0
129	2	6.84e-04	-2.15e-03	-0.05	1.07e-04	3.32e-05	0.0
129	10	2.71e-03	-2.48e-03	-0.04	6.65e-05	1.94e-05	0.0
129	34	1.19e-03	-3.93e-03	-0.04	7.11e-05	1.93e-05	0.0
129	36	-1.25e-04	-4.15e-03	-0.04	7.17e-05	1.93e-05	0.0
129	42	4.08e-03	-3.16e-03	-0.04	6.67e-05	1.92e-05	0.0
129	66	1.66e-03	-5.47e-03	-0.04	7.41e-05	1.91e-05	0.0
129	68	-4.38e-04	-5.81e-03	-0.04	7.49e-05	1.91e-05	0.0
129	70	5.10e-04	-1.61e-03	-0.04	7.99e-05	2.48e-05	0.0
129	72	4.25e-04	-1.39e-03	-0.04	6.89e-05	2.07e-05	0.0
130	2	5.22e-04	-1.39e-03	-0.05	6.89e-05	2.50e-05	0.0
130	10	2.59e-03	-2.01e-03	-0.04	4.28e-05	1.49e-05	0.0
130	18	2.54e-03	-1.30e-03	-0.04	4.32e-05	1.49e-05	0.0
130	36	-2.77e-04	-3.64e-03	-0.04	4.61e-05	1.46e-05	0.0
130	42	3.93e-03	-2.68e-03	-0.04	4.29e-05	1.49e-05	0.0
130	50	3.86e-03	-1.56e-03	-0.04	4.34e-05	1.49e-05	0.0
130	68	-6.22e-04	-5.28e-03	-0.04	4.81e-05	1.45e-05	0.0
130	70	3.90e-04	-1.04e-03	-0.04	5.15e-05	1.87e-05	0.0
130	72	3.24e-04	-8.96e-04	-0.04	4.45e-05	1.56e-05	0.0
131	2	4.35e-04	-5.80e-04	-0.04	2.87e-05	2.07e-05	0.0
131	10	2.51e-03	-1.50e-03	-0.03	1.80e-05	1.23e-05	0.0
131	18	2.49e-03	-7.99e-04	-0.03	1.82e-05	1.23e-05	0.0
131	36	-3.80e-04	-3.11e-03	-0.03	1.99e-05	1.21e-05	0.0
131	42	3.83e-03	-2.18e-03	-0.03	1.81e-05	1.24e-05	0.0
131	50	3.81e-03	-1.06e-03	-0.03	1.85e-05	1.24e-05	0.0
131	68	-7.55e-04	-4.74e-03	-0.03	2.11e-05	1.20e-05	0.0
131	70	3.25e-04	-4.33e-04	-0.03	2.14e-05	1.54e-05	0.0
131	72	2.70e-04	-3.74e-04	-0.03	1.85e-05	1.29e-05	0.0
132	2	4.21e-04	2.47e-04	-0.04	-1.24e-05	1.99e-05	0.0
132	9	2.48e-03	5.90e-04	-0.03	-8.11e-06	1.19e-05	0.0
132	17	2.49e-03	1.29e-03	-0.03	-7.94e-06	1.19e-05	0.0
132	31	-4.05e-04	2.90e-03	-0.03	-9.54e-06	1.17e-05	0.0
132	41	3.79e-03	8.48e-04	-0.03	-8.38e-06	1.20e-05	0.0
132	49	3.82e-03	1.97e-03	-0.03	-8.12e-06	1.20e-05	0.0
132	63	-7.90e-04	4.52e-03	-0.03	-1.07e-05	1.17e-05	0.0
132	70	3.14e-04	1.84e-04	-0.03	-9.23e-06	1.49e-05	0.0
132	72	2.61e-04	1.59e-04	-0.03	-7.97e-06	1.24e-05	0.0
133	2	4.77e-04	1.07e-03	-0.05	-5.30e-05	2.28e-05	0.0
133	9	2.51e-03	1.10e-03	-0.03	-3.33e-05	1.36e-05	0.0
133	17	2.55e-03	1.80e-03	-0.03	-3.30e-05	1.36e-05	0.0
133	31	-3.21e-04	3.43e-03	-0.03	-3.56e-05	1.33e-05	0.0
133	41	3.83e-03	1.35e-03	-0.03	-3.35e-05	1.36e-05	0.0
133	49	3.90e-03	2.47e-03	-0.03	-3.31e-05	1.36e-05	0.0
133	63	-6.76e-04	5.06e-03	-0.03	-3.72e-05	1.32e-05	0.0
133	70	3.56e-04	7.96e-04	-0.03	-3.96e-05	1.71e-05	0.0
133	72	2.96e-04	6.87e-04	-0.03	-3.42e-05	1.42e-05	0.0
134	2	6.08e-04	1.85e-03	-0.05	-9.21e-05	2.95e-05	0.0
134	17	2.66e-03	2.29e-03	-0.04	-5.72e-05	1.73e-05	0.0

134	29	1.13e-03	3.73e-03	-0.04	-6.11e-05	1.72e-05	0.0
134	31	-1.89e-04	3.95e-03	-0.04	-6.16e-05	1.72e-05	0.0
134	49	4.02e-03	2.97e-03	-0.04	-5.74e-05	1.72e-05	0.0
134	61	1.58e-03	5.25e-03	-0.04	-6.36e-05	1.70e-05	0.0
134	63	-5.13e-04	5.60e-03	-0.04	-6.42e-05	1.71e-05	0.0
134	70	4.54e-04	1.38e-03	-0.04	-6.88e-05	2.20e-05	0.0
134	72	3.78e-04	1.19e-03	-0.04	-5.94e-05	1.84e-05	0.0
135	2	8.16e-04	2.56e-03	-0.05	-1.28e-04	4.01e-05	0.0
135	17	2.81e-03	2.74e-03	-0.04	-7.95e-05	2.32e-05	0.0
135	29	1.30e-03	4.21e-03	-0.04	-8.54e-05	2.30e-05	0.0
135	31	-6.88e-06	4.44e-03	-0.04	-8.60e-05	2.31e-05	0.0
135	49	4.19e-03	3.42e-03	-0.04	-7.98e-05	2.29e-05	0.0
135	61	1.78e-03	5.77e-03	-0.04	-8.92e-05	2.26e-05	0.0
135	63	-2.96e-04	6.12e-03	-0.04	-9.01e-05	2.28e-05	0.0
135	70	6.08e-04	1.91e-03	-0.04	-9.53e-05	2.99e-05	0.0
135	72	5.08e-04	1.65e-03	-0.04	-8.22e-05	2.50e-05	0.0
136	2	1.10e-03	3.15e-03	-0.06	-1.57e-04	5.46e-05	0.0
136	17	3.01e-03	3.11e-03	-0.04	-9.81e-05	3.21e-05	0.0
136	29	1.53e-03	4.63e-03	-0.05	-1.06e-04	3.39e-05	0.0
136	31	2.29e-04	4.85e-03	-0.05	-1.07e-04	3.41e-05	0.0
136	49	4.40e-03	3.80e-03	-0.05	-9.88e-05	3.20e-05	0.0
136	61	2.05e-03	6.21e-03	-0.05	-1.12e-04	3.48e-05	0.0
136	63	-1.93e-05	6.57e-03	-0.05	-1.13e-04	3.51e-05	0.0
136	70	8.19e-04	2.36e-03	-0.05	-1.17e-04	4.07e-05	0.0
136	72	6.84e-04	2.03e-03	-0.05	-1.01e-04	3.40e-05	0.0
137	2	1.44e-03	3.56e-03	-0.07	-1.77e-04	7.23e-05	0.0
137	17	3.25e-03	3.38e-03	-0.05	-1.11e-04	4.27e-05	0.0
137	31	5.12e-04	5.15e-03	-0.05	-1.22e-04	4.63e-05	0.0
137	35	4.66e-04	4.94e-03	-0.05	-1.22e-04	4.64e-05	0.0
137	49	4.66e-03	4.07e-03	-0.05	-1.12e-04	4.26e-05	0.0
137	63	3.10e-04	6.90e-03	-0.05	-1.29e-04	4.82e-05	0.0
137	67	2.37e-04	6.56e-03	-0.05	-1.29e-04	4.85e-05	0.0
137	70	1.08e-03	2.66e-03	-0.05	-1.32e-04	5.39e-05	0.0
137	72	9.00e-04	2.29e-03	-0.05	-1.14e-04	4.51e-05	0.0
138	2	1.82e-03	3.73e-03	-0.08	-1.86e-04	9.19e-05	0.0
138	17	3.50e-03	3.49e-03	-0.06	-1.17e-04	5.44e-05	0.0
138	31	8.26e-04	5.29e-03	-0.06	-1.28e-04	6.01e-05	0.0
138	35	7.73e-04	5.08e-03	-0.06	-1.29e-04	6.04e-05	0.0
138	49	4.93e-03	4.19e-03	-0.06	-1.18e-04	5.44e-05	0.0
138	63	6.76e-04	7.05e-03	-0.06	-1.37e-04	6.34e-05	0.0
138	67	5.92e-04	6.72e-03	-0.06	-1.37e-04	6.38e-05	0.0
138	70	1.36e-03	2.79e-03	-0.06	-1.39e-04	6.85e-05	0.0
138	72	1.14e-03	2.40e-03	-0.06	-1.19e-04	5.73e-05	0.0
139	2	2.40e-03	-4.29e-03	-0.08	2.12e-04	1.22e-04	0.0
139	10	3.88e-03	-3.80e-03	-0.06	1.33e-04	7.40e-05	0.0
139	32	1.17e-03	-5.44e-03	-0.06	1.47e-04	8.06e-05	0.0
139	36	1.22e-03	-5.64e-03	-0.06	1.47e-04	8.04e-05	0.0
139	42	5.32e-03	-4.50e-03	-0.06	1.34e-04	7.44e-05	0.0
139	64	9.98e-04	-7.10e-03	-0.06	1.58e-04	8.48e-05	0.0
139	68	1.08e-03	-7.42e-03	-0.06	1.57e-04	8.45e-05	0.0
139	70	1.79e-03	-3.20e-03	-0.06	1.58e-04	9.08e-05	0.0
139	72	1.52e-03	-2.74e-03	-0.06	1.36e-04	7.69e-05	0.0
140	2	2.09e-03	-4.18e-03	-0.08	2.07e-04	1.05e-04	0.0
140	10	3.67e-03	-3.73e-03	-0.06	1.29e-04	6.38e-05	0.0
140	32	9.13e-04	-5.36e-03	-0.06	1.43e-04	6.84e-05	0.0
140	36	9.59e-04	-5.55e-03	-0.06	1.43e-04	6.83e-05	0.0
140	42	5.09e-03	-4.42e-03	-0.06	1.31e-04	6.40e-05	0.0
140	64	7.07e-04	-7.01e-03	-0.06	1.53e-04	7.14e-05	0.0
140	68	7.81e-04	-7.32e-03	-0.06	1.52e-04	7.11e-05	0.0
140	70	1.56e-03	-3.12e-03	-0.06	1.54e-04	7.84e-05	0.0
140	72	1.32e-03	-2.68e-03	-0.06	1.33e-04	6.65e-05	0.0
141	2	1.58e-03	-3.79e-03	-0.07	1.88e-04	7.87e-05	0.0
141	10	3.33e-03	-3.48e-03	-0.05	1.17e-04	4.77e-05	0.0
141	32	5.21e-04	-5.06e-03	-0.05	1.29e-04	5.00e-05	0.0
141	36	5.60e-04	-5.26e-03	-0.05	1.28e-04	4.99e-05	0.0
141	42	4.73e-03	-4.16e-03	-0.05	1.18e-04	4.77e-05	0.0
141	64	2.64e-04	-6.67e-03	-0.05	1.36e-04	5.13e-05	0.0
141	68	3.26e-04	-6.99e-03	-0.05	1.36e-04	5.12e-05	0.0
141	70	1.18e-03	-2.83e-03	-0.05	1.40e-04	5.88e-05	0.0
141	72	1.00e-03	-2.43e-03	-0.05	1.20e-04	4.99e-05	0.0
142	2	1.16e-03	-3.18e-03	-0.06	1.57e-04	5.70e-05	0.0
142	10	3.04e-03	-3.09e-03	-0.04	9.75e-05	3.41e-05	0.0
142	34	1.54e-03	-4.60e-03	-0.04	1.05e-04	3.38e-05	0.0
142	36	2.30e-04	-4.81e-03	-0.04	1.06e-04	3.39e-05	0.0
142	42	4.42e-03	-3.76e-03	-0.04	9.79e-05	3.38e-05	0.0
142	66	2.03e-03	-6.16e-03	-0.04	1.10e-04	3.34e-05	0.0

142	68	-4.89e-05	-6.49e-03	-0.04	1.11e-04	3.35e-05	0.0
142	70	8.66e-04	-2.37e-03	-0.05	1.17e-04	4.26e-05	0.0
142	72	7.35e-04	-2.04e-03	-0.04	1.01e-04	3.62e-05	0.0
143	2	8.47e-04	-2.40e-03	-0.05	1.19e-04	4.11e-05	0.0
143	10	2.82e-03	-2.60e-03	-0.04	7.34e-05	2.48e-05	0.0
143	34	1.30e-03	-4.06e-03	-0.04	7.85e-05	2.46e-05	0.0
143	36	-1.97e-05	-4.27e-03	-0.04	7.91e-05	2.46e-05	0.0
143	42	4.19e-03	-3.26e-03	-0.04	7.36e-05	2.47e-05	0.0
143	66	1.76e-03	-5.58e-03	-0.04	8.16e-05	2.44e-05	0.0
143	68	-3.34e-04	-5.91e-03	-0.04	8.25e-05	2.45e-05	0.0
143	70	6.33e-04	-1.79e-03	-0.04	8.86e-05	3.07e-05	0.0
143	72	5.38e-04	-1.54e-03	-0.04	7.63e-05	2.61e-05	0.0
144	2	6.43e-04	-1.54e-03	-0.05	7.60e-05	3.08e-05	0.0
144	10	2.67e-03	-2.07e-03	-0.04	4.70e-05	1.86e-05	0.0
144	18	2.62e-03	-1.40e-03	-0.04	4.74e-05	1.86e-05	0.0
144	36	-1.96e-04	-3.69e-03	-0.04	5.04e-05	1.85e-05	0.0
144	42	4.01e-03	-2.72e-03	-0.04	4.71e-05	1.86e-05	0.0
144	50	3.94e-03	-1.67e-03	-0.04	4.76e-05	1.85e-05	0.0
144	68	-5.42e-04	-5.31e-03	-0.04	5.23e-05	1.83e-05	0.0
144	70	4.81e-04	-1.15e-03	-0.04	5.68e-05	2.30e-05	0.0
144	72	4.08e-04	-9.90e-04	-0.04	4.89e-05	1.96e-05	0.0
145	2	5.36e-04	-6.40e-04	-0.05	3.15e-05	2.54e-05	0.0
145	10	2.57e-03	-1.51e-03	-0.03	1.96e-05	1.54e-05	0.0
145	18	2.56e-03	-8.44e-04	-0.03	1.99e-05	1.54e-05	0.0
145	36	-3.11e-04	-3.11e-03	-0.03	2.15e-05	1.54e-05	0.0
145	42	3.90e-03	-2.17e-03	-0.03	1.97e-05	1.54e-05	0.0
145	50	3.87e-03	-1.11e-03	-0.03	2.01e-05	1.54e-05	0.0
145	68	-6.86e-04	-4.71e-03	-0.03	2.27e-05	1.53e-05	0.0
145	70	4.01e-04	-4.78e-04	-0.03	2.36e-05	1.90e-05	0.0
145	72	3.41e-04	-4.12e-04	-0.03	2.03e-05	1.62e-05	0.0
146	2	5.18e-04	2.73e-04	-0.04	-1.36e-05	2.45e-05	0.0
146	9	2.54e-03	6.14e-04	-0.03	-8.81e-06	1.49e-05	0.0
146	17	2.56e-03	1.28e-03	-0.03	-8.63e-06	1.49e-05	0.0
146	31	-3.38e-04	2.88e-03	-0.03	-1.02e-05	1.49e-05	0.0
146	41	3.86e-03	8.78e-04	-0.03	-9.06e-06	1.49e-05	0.0
146	49	3.88e-03	1.94e-03	-0.03	-8.77e-06	1.49e-05	0.0
146	63	-7.23e-04	4.47e-03	-0.03	-1.12e-05	1.49e-05	0.0
146	70	3.87e-04	2.04e-04	-0.03	-1.01e-05	1.84e-05	0.0
146	72	3.29e-04	1.75e-04	-0.03	-8.73e-06	1.57e-05	0.0
147	2	5.88e-04	1.18e-03	-0.05	-5.84e-05	2.81e-05	0.0
147	9	2.58e-03	1.17e-03	-0.04	-3.64e-05	1.70e-05	0.0
147	17	2.63e-03	1.84e-03	-0.04	-3.61e-05	1.70e-05	0.0
147	31	-2.46e-04	3.46e-03	-0.04	-3.88e-05	1.69e-05	0.0
147	41	3.90e-03	1.44e-03	-0.04	-3.66e-05	1.69e-05	0.0
147	49	3.97e-03	2.49e-03	-0.04	-3.62e-05	1.69e-05	0.0
147	63	-6.02e-04	5.06e-03	-0.04	-4.04e-05	1.67e-05	0.0
147	70	4.39e-04	8.81e-04	-0.04	-4.36e-05	2.10e-05	0.0
147	72	3.73e-04	7.59e-04	-0.04	-3.76e-05	1.79e-05	0.0
148	2	7.51e-04	2.06e-03	-0.05	-1.02e-04	3.63e-05	0.0
148	17	2.76e-03	2.39e-03	-0.04	-6.31e-05	2.19e-05	0.0
148	29	1.22e-03	3.83e-03	-0.04	-6.72e-05	2.17e-05	0.0
148	31	-9.64e-05	4.04e-03	-0.04	-6.77e-05	2.18e-05	0.0
148	49	4.11e-03	3.04e-03	-0.04	-6.31e-05	2.18e-05	0.0
148	61	1.67e-03	5.34e-03	-0.04	-6.97e-05	2.15e-05	0.0
148	63	-4.22e-04	5.67e-03	-0.04	-7.05e-05	2.16e-05	0.0
148	70	5.61e-04	1.54e-03	-0.04	-7.61e-05	2.72e-05	0.0
148	72	4.76e-04	1.32e-03	-0.04	-6.56e-05	2.31e-05	0.0
149	2	1.02e-03	2.87e-03	-0.06	-1.42e-04	5.00e-05	0.0
149	17	2.95e-03	2.90e-03	-0.04	-8.82e-05	3.00e-05	0.0
149	29	1.43e-03	4.39e-03	-0.04	-9.48e-05	2.98e-05	0.0
149	31	1.22e-04	4.60e-03	-0.04	-9.55e-05	2.99e-05	0.0
149	49	4.32e-03	3.56e-03	-0.04	-8.85e-05	2.98e-05	0.0
149	61	1.91e-03	5.93e-03	-0.04	-9.90e-05	2.95e-05	0.0
149	63	-1.69e-04	6.27e-03	-0.04	-1.00e-04	2.97e-05	0.0
149	70	7.61e-04	2.15e-03	-0.04	-1.06e-04	3.74e-05	0.0
149	72	6.45e-04	1.85e-03	-0.04	-9.15e-05	3.18e-05	0.0
150	2	1.40e-03	3.56e-03	-0.06	-1.76e-04	6.94e-05	0.0
150	17	3.21e-03	3.33e-03	-0.05	-1.10e-04	4.20e-05	0.0
150	29	1.72e-03	4.88e-03	-0.05	-1.19e-04	4.35e-05	0.0
150	31	4.21e-04	5.09e-03	-0.05	-1.20e-04	4.37e-05	0.0
150	49	4.60e-03	4.01e-03	-0.05	-1.11e-04	4.20e-05	0.0
150	61	2.24e-03	6.46e-03	-0.05	-1.25e-04	4.43e-05	0.0
150	63	1.70e-04	6.80e-03	-0.05	-1.27e-04	4.46e-05	0.0
150	70	1.04e-03	2.66e-03	-0.05	-1.32e-04	5.19e-05	0.0
150	72	8.85e-04	2.28e-03	-0.05	-1.13e-04	4.41e-05	0.0
151	2	1.87e-03	4.05e-03	-0.07	-2.00e-04	9.41e-05	0.0

151	17	3.53e-03	3.65e-03	-0.05	-1.25e-04	5.71e-05	0.0
151	31	7.96e-04	5.45e-03	-0.05	-1.38e-04	6.06e-05	0.0
151	35	7.50e-04	5.25e-03	-0.05	-1.38e-04	6.07e-05	0.0
151	49	4.95e-03	4.33e-03	-0.05	-1.26e-04	5.72e-05	0.0
151	63	5.97e-04	7.20e-03	-0.06	-1.47e-04	6.28e-05	0.0
151	67	5.24e-04	6.89e-03	-0.06	-1.47e-04	6.30e-05	0.0
151	70	1.40e-03	3.02e-03	-0.06	-1.50e-04	7.03e-05	0.0
151	72	1.19e-03	2.59e-03	-0.05	-1.28e-04	5.96e-05	0.0
152	2	2.40e-03	4.26e-03	-0.08	-2.11e-04	1.22e-04	0.0
152	17	3.89e-03	3.79e-03	-0.06	-1.32e-04	7.41e-05	0.0
152	31	1.22e-03	5.63e-03	-0.06	-1.46e-04	8.04e-05	0.0
152	35	1.17e-03	5.43e-03	-0.06	-1.47e-04	8.06e-05	0.0
152	49	5.32e-03	4.48e-03	-0.06	-1.34e-04	7.46e-05	0.0
152	63	1.09e-03	7.40e-03	-0.06	-1.56e-04	8.45e-05	0.0
152	67	1.00e-03	7.09e-03	-0.06	-1.57e-04	8.48e-05	0.0
152	70	1.79e-03	3.18e-03	-0.06	-1.58e-04	9.08e-05	0.0
152	72	1.52e-03	2.73e-03	-0.06	-1.35e-04	7.69e-05	0.0
153	2	2.62e-03	-4.99e-03	-0.09	2.45e-04	1.33e-04	0.0
153	10	4.07e-03	-4.22e-03	-0.06	1.53e-04	8.37e-05	0.0
153	32	1.32e-03	-5.93e-03	-0.07	1.71e-04	8.84e-05	0.0
153	36	1.37e-03	-6.11e-03	-0.07	1.71e-04	8.84e-05	0.0
153	42	5.53e-03	-4.91e-03	-0.06	1.55e-04	8.52e-05	0.0
153	64	1.15e-03	-7.63e-03	-0.07	1.84e-04	9.28e-05	0.0
153	68	1.24e-03	-7.92e-03	-0.07	1.84e-04	9.28e-05	0.0
153	70	1.96e-03	-3.72e-03	-0.07	1.83e-04	9.96e-05	0.0
153	72	1.67e-03	-3.18e-03	-0.06	1.56e-04	8.48e-05	0.0
154	2	2.24e-03	-4.85e-03	-0.08	2.38e-04	1.13e-04	0.0
154	10	3.80e-03	-4.13e-03	-0.06	1.49e-04	7.08e-05	0.0
154	32	1.00e-03	-5.81e-03	-0.06	1.66e-04	7.33e-05	0.0
154	36	1.05e-03	-5.99e-03	-0.06	1.65e-04	7.34e-05	0.0
154	42	5.24e-03	-4.81e-03	-0.06	1.51e-04	7.18e-05	0.0
154	64	7.92e-04	-7.49e-03	-0.06	1.77e-04	7.59e-05	0.0
154	68	8.70e-04	-7.78e-03	-0.06	1.77e-04	7.59e-05	0.0
154	70	1.67e-03	-3.62e-03	-0.06	1.78e-04	8.46e-05	0.0
154	72	1.43e-03	-3.10e-03	-0.06	1.52e-04	7.22e-05	0.0
155	2	1.63e-03	-4.37e-03	-0.07	2.15e-04	8.14e-05	0.0
155	10	3.39e-03	-3.81e-03	-0.05	1.34e-04	5.09e-05	0.0
155	32	5.43e-04	-5.43e-03	-0.05	1.47e-04	5.11e-05	0.0
155	36	5.85e-04	-5.61e-03	-0.05	1.47e-04	5.11e-05	0.0
155	42	4.81e-03	-4.48e-03	-0.05	1.35e-04	5.15e-05	0.0
155	64	2.74e-04	-7.05e-03	-0.05	1.56e-04	5.18e-05	0.0
155	68	3.40e-04	-7.34e-03	-0.05	1.56e-04	5.19e-05	0.0
155	70	1.22e-03	-3.26e-03	-0.06	1.60e-04	6.09e-05	0.0
155	72	1.04e-03	-2.79e-03	-0.05	1.37e-04	5.20e-05	0.0
156	2	1.16e-03	-3.60e-03	-0.06	1.77e-04	5.68e-05	0.0
156	10	3.07e-03	-3.32e-03	-0.05	1.10e-04	3.54e-05	0.0
156	34	1.54e-03	-4.85e-03	-0.05	1.18e-04	3.45e-05	0.0
156	36	2.25e-04	-5.05e-03	-0.05	1.19e-04	3.42e-05	0.0
156	42	4.46e-03	-3.98e-03	-0.05	1.10e-04	3.57e-05	0.0
156	66	2.03e-03	-6.41e-03	-0.05	1.24e-04	3.43e-05	0.0
156	68	-6.21e-05	-6.72e-03	-0.05	1.25e-04	3.39e-05	0.0
156	70	8.67e-04	-2.69e-03	-0.05	1.32e-04	4.25e-05	0.0
156	72	7.42e-04	-2.31e-03	-0.05	1.14e-04	3.64e-05	0.0
157	2	8.29e-04	-2.69e-03	-0.05	1.32e-04	4.00e-05	0.0
157	10	2.83e-03	-2.75e-03	-0.04	8.17e-05	2.50e-05	0.0
157	34	1.29e-03	-4.21e-03	-0.04	8.68e-05	2.42e-05	0.0
157	36	-3.01e-05	-4.41e-03	-0.04	8.73e-05	2.40e-05	0.0
157	42	4.20e-03	-3.40e-03	-0.04	8.19e-05	2.52e-05	0.0
157	66	1.75e-03	-5.72e-03	-0.04	9.00e-05	2.39e-05	0.0
157	68	-3.48e-04	-6.03e-03	-0.04	9.09e-05	2.37e-05	0.0
157	70	6.21e-04	-2.01e-03	-0.04	9.86e-05	2.99e-05	0.0
157	72	5.32e-04	-1.72e-03	-0.04	8.48e-05	2.57e-05	0.0
158	2	6.23e-04	-1.71e-03	-0.05	8.39e-05	2.96e-05	0.0
158	10	2.67e-03	-2.14e-03	-0.04	5.18e-05	1.85e-05	0.0
158	18	2.62e-03	-1.51e-03	-0.04	5.21e-05	1.83e-05	0.0
158	36	-2.05e-04	-3.75e-03	-0.04	5.50e-05	1.79e-05	0.0
158	42	4.01e-03	-2.78e-03	-0.04	5.19e-05	1.86e-05	0.0
158	50	3.94e-03	-1.79e-03	-0.04	5.24e-05	1.84e-05	0.0
158	68	-5.53e-04	-5.34e-03	-0.04	5.69e-05	1.76e-05	0.0
158	70	4.66e-04	-1.28e-03	-0.04	6.27e-05	2.22e-05	0.0
158	72	4.00e-04	-1.10e-03	-0.04	5.39e-05	1.91e-05	0.0
159	2	5.17e-04	-7.06e-04	-0.05	3.46e-05	2.43e-05	0.0
159	5	2.57e-03	-3.36e-04	-0.04	2.06e-05	1.53e-05	0.0
159	18	2.55e-03	-8.92e-04	-0.04	2.17e-05	1.51e-05	0.0
159	36	-3.18e-04	-3.11e-03	-0.04	2.32e-05	1.49e-05	0.0
159	37	3.90e-03	-2.78e-04	-0.04	2.02e-05	1.54e-05	0.0

159	50	3.87e-03	-1.16e-03	-0.04	2.20e-05	1.52e-05	0.0
159	68	-6.94e-04	-4.68e-03	-0.04	2.43e-05	1.48e-05	0.0
159	70	3.87e-04	-5.28e-04	-0.04	2.59e-05	1.82e-05	0.0
159	72	3.32e-04	-4.54e-04	-0.04	2.23e-05	1.57e-05	0.0
160	2	4.99e-04	3.01e-04	-0.05	-1.49e-05	2.35e-05	0.0
160	9	2.54e-03	6.39e-04	-0.04	-9.57e-06	1.46e-05	0.0
160	17	2.55e-03	1.27e-03	-0.04	-9.42e-06	1.47e-05	0.0
160	31	-3.45e-04	2.85e-03	-0.03	-1.08e-05	1.45e-05	0.0
160	41	3.85e-03	9.07e-04	-0.04	-9.80e-06	1.47e-05	0.0
160	49	3.87e-03	1.91e-03	-0.04	-9.56e-06	1.47e-05	0.0
160	63	-7.31e-04	4.42e-03	-0.03	-1.17e-05	1.44e-05	0.0
160	70	3.74e-04	2.25e-04	-0.04	-1.11e-05	1.76e-05	0.0
160	72	3.21e-04	1.93e-04	-0.04	-9.56e-06	1.52e-05	0.0
161	2	5.67e-04	1.31e-03	-0.05	-6.43e-05	2.69e-05	0.0
161	9	2.58e-03	1.26e-03	-0.04	-4.00e-05	1.67e-05	0.0
161	17	2.62e-03	1.89e-03	-0.04	-3.97e-05	1.68e-05	0.0
161	31	-2.55e-04	3.49e-03	-0.04	-4.22e-05	1.63e-05	0.0
161	41	3.89e-03	1.53e-03	-0.04	-4.02e-05	1.67e-05	0.0
161	49	3.97e-03	2.53e-03	-0.04	-3.98e-05	1.69e-05	0.0
161	63	-6.12e-04	5.08e-03	-0.04	-4.37e-05	1.61e-05	0.0
161	70	4.24e-04	9.76e-04	-0.04	-4.80e-05	2.02e-05	0.0
161	72	3.64e-04	8.39e-04	-0.04	-4.13e-05	1.74e-05	0.0
162	2	7.29e-04	2.30e-03	-0.05	-1.13e-04	3.51e-05	0.0
162	17	2.76e-03	2.50e-03	-0.04	-6.99e-05	2.19e-05	0.0
162	29	1.21e-03	3.95e-03	-0.04	-7.40e-05	2.12e-05	0.0
162	31	-1.08e-04	4.14e-03	-0.04	-7.44e-05	2.11e-05	0.0
162	49	4.12e-03	3.14e-03	-0.04	-7.00e-05	2.21e-05	0.0
162	61	1.66e-03	5.44e-03	-0.04	-7.65e-05	2.10e-05	0.0
162	63	-4.36e-04	5.75e-03	-0.04	-7.72e-05	2.08e-05	0.0
162	70	5.46e-04	1.72e-03	-0.04	-8.44e-05	2.63e-05	0.0
162	72	4.68e-04	1.47e-03	-0.04	-7.26e-05	2.26e-05	0.0
163	2	1.01e-03	3.24e-03	-0.06	-1.60e-04	4.92e-05	0.0
163	17	2.96e-03	3.10e-03	-0.04	-9.89e-05	3.07e-05	0.0
163	29	1.43e-03	4.60e-03	-0.04	-1.06e-04	2.98e-05	0.0
163	31	1.12e-04	4.79e-03	-0.04	-1.07e-04	2.96e-05	0.0
163	49	4.35e-03	3.74e-03	-0.04	-9.92e-05	3.09e-05	0.0
163	61	1.90e-03	6.13e-03	-0.04	-1.10e-04	2.96e-05	0.0
163	63	-1.86e-04	6.45e-03	-0.04	-1.11e-04	2.93e-05	0.0
163	70	7.52e-04	2.42e-03	-0.05	-1.19e-04	3.68e-05	0.0
163	72	6.44e-04	2.08e-03	-0.04	-1.02e-04	3.16e-05	0.0
164	2	1.42e-03	4.08e-03	-0.07	-2.01e-04	7.07e-05	0.0
164	17	3.25e-03	3.62e-03	-0.05	-1.25e-04	4.37e-05	0.0
164	29	1.74e-03	5.20e-03	-0.05	-1.35e-04	4.26e-05	0.0
164	31	4.28e-04	5.40e-03	-0.05	-1.36e-04	4.24e-05	0.0
164	49	4.66e-03	4.29e-03	-0.05	-1.26e-04	4.39e-05	0.0
164	61	2.25e-03	6.79e-03	-0.05	-1.42e-04	4.22e-05	0.0
164	63	1.68e-04	7.10e-03	-0.05	-1.44e-04	4.18e-05	0.0
164	70	1.06e-03	3.05e-03	-0.05	-1.50e-04	5.29e-05	0.0
164	72	9.08e-04	2.61e-03	-0.05	-1.29e-04	4.52e-05	0.0
165	2	1.98e-03	4.68e-03	-0.08	-2.30e-04	1.00e-04	0.0
165	17	3.63e-03	4.02e-03	-0.06	-1.44e-04	6.25e-05	0.0
165	31	8.59e-04	5.86e-03	-0.06	-1.59e-04	6.40e-05	0.0
165	35	8.10e-04	5.67e-03	-0.06	-1.59e-04	6.39e-05	0.0
165	49	5.06e-03	4.69e-03	-0.06	-1.45e-04	6.32e-05	0.0
165	63	6.51e-04	7.62e-03	-0.06	-1.69e-04	6.57e-05	0.0
165	67	5.73e-04	7.33e-03	-0.06	-1.70e-04	6.56e-05	0.0
165	70	1.48e-03	3.50e-03	-0.06	-1.72e-04	7.48e-05	0.0
165	72	1.27e-03	2.99e-03	-0.06	-1.47e-04	6.38e-05	0.0
166	2	2.63e-03	4.96e-03	-0.09	-2.44e-04	1.33e-04	0.0
166	17	4.07e-03	4.20e-03	-0.06	-1.53e-04	8.38e-05	0.0
166	31	1.38e-03	6.10e-03	-0.07	-1.70e-04	8.85e-05	0.0
166	35	1.32e-03	5.91e-03	-0.07	-1.71e-04	8.85e-05	0.0
166	49	5.53e-03	4.90e-03	-0.06	-1.55e-04	8.53e-05	0.0
166	63	1.25e-03	7.91e-03	-0.07	-1.83e-04	9.28e-05	0.0
166	67	1.16e-03	7.61e-03	-0.07	-1.83e-04	9.28e-05	0.0
166	70	1.96e-03	3.70e-03	-0.07	-1.82e-04	9.96e-05	0.0
166	72	1.67e-03	3.17e-03	-0.06	-1.56e-04	8.48e-05	0.0
167	2	2.24e-03	-5.79e-03	-0.10	2.81e-04	1.15e-04	0.0
167	10	3.90e-03	-4.70e-03	-0.07	1.77e-04	7.60e-05	0.0
167	32	1.04e-03	-6.47e-03	-0.07	1.98e-04	7.53e-05	0.0
167	36	1.10e-03	-6.64e-03	-0.07	1.97e-04	7.56e-05	0.0
167	42	5.40e-03	-5.40e-03	-0.07	1.80e-04	7.94e-05	0.0
167	64	8.44e-04	-8.21e-03	-0.07	2.13e-04	7.81e-05	0.0
167	68	9.41e-04	-8.48e-03	-0.07	2.12e-04	7.87e-05	0.0
167	70	1.67e-03	-4.32e-03	-0.07	2.10e-04	8.61e-05	0.0
167	72	1.43e-03	-3.69e-03	-0.07	1.79e-04	7.35e-05	0.0

168	2	1.84e-03	-5.65e-03	-0.09	2.75e-04	9.46e-05	0.0
168	10	3.62e-03	-4.61e-03	-0.06	1.73e-04	6.23e-05	0.0
168	32	7.29e-04	-6.35e-03	-0.06	1.92e-04	6.03e-05	0.0
168	36	7.84e-04	-6.52e-03	-0.06	1.91e-04	6.07e-05	0.0
168	42	5.09e-03	-5.30e-03	-0.06	1.75e-04	6.48e-05	0.0
168	64	4.92e-04	-8.06e-03	-0.07	2.05e-04	6.17e-05	0.0
168	68	5.79e-04	-8.33e-03	-0.07	2.05e-04	6.22e-05	0.0
168	70	1.38e-03	-4.22e-03	-0.07	2.05e-04	7.08e-05	0.0
168	72	1.18e-03	-3.60e-03	-0.06	1.76e-04	6.06e-05	0.0
169	2	1.27e-03	-4.98e-03	-0.08	2.43e-04	6.33e-05	0.0
169	10	3.22e-03	-4.17e-03	-0.05	1.52e-04	4.18e-05	0.0
169	34	1.66e-03	-5.80e-03	-0.06	1.65e-04	3.90e-05	0.0
169	36	3.34e-04	-5.98e-03	-0.06	1.66e-04	3.78e-05	0.0
169	42	4.66e-03	-4.83e-03	-0.05	1.53e-04	4.35e-05	0.0
169	66	2.18e-03	-7.42e-03	-0.06	1.74e-04	3.90e-05	0.0
169	68	6.86e-05	-7.72e-03	-0.06	1.76e-04	3.71e-05	0.0
169	70	9.51e-04	-3.72e-03	-0.06	1.82e-04	4.74e-05	0.0
169	72	8.17e-04	-3.18e-03	-0.05	1.56e-04	4.07e-05	0.0
170	2	8.71e-04	-4.02e-03	-0.07	1.96e-04	4.22e-05	0.0
170	10	2.92e-03	-3.56e-03	-0.05	1.22e-04	2.80e-05	0.0
170	34	1.37e-03	-5.09e-03	-0.05	1.30e-04	2.58e-05	0.0
170	36	4.15e-05	-5.27e-03	-0.05	1.31e-04	2.51e-05	0.0
170	42	4.32e-03	-4.20e-03	-0.05	1.23e-04	2.90e-05	0.0
170	66	1.86e-03	-6.63e-03	-0.05	1.36e-04	2.56e-05	0.0
170	68	-2.52e-04	-6.92e-03	-0.05	1.37e-04	2.44e-05	0.0
170	70	6.52e-04	-3.00e-03	-0.05	1.46e-04	3.16e-05	0.0
170	72	5.61e-04	-2.57e-03	-0.05	1.26e-04	2.72e-05	0.0
171	2	6.14e-04	-2.95e-03	-0.06	1.44e-04	2.92e-05	0.0
171	10	2.71e-03	-2.89e-03	-0.04	8.94e-05	1.93e-05	0.0
171	34	1.17e-03	-4.35e-03	-0.04	9.41e-05	1.79e-05	0.0
171	36	-1.61e-04	-4.53e-03	-0.04	9.45e-05	1.74e-05	0.0
171	42	4.09e-03	-3.52e-03	-0.04	8.99e-05	1.99e-05	0.0
171	66	1.63e-03	-5.84e-03	-0.04	9.73e-05	1.77e-05	0.0
171	68	-4.81e-04	-6.13e-03	-0.04	9.79e-05	1.70e-05	0.0
171	70	4.60e-04	-2.20e-03	-0.04	1.08e-04	2.19e-05	0.0
171	72	3.97e-04	-1.89e-03	-0.04	9.25e-05	1.89e-05	0.0
172	2	4.60e-04	-1.86e-03	-0.05	9.06e-05	2.15e-05	0.0
172	10	2.58e-03	-2.21e-03	-0.04	5.63e-05	1.41e-05	0.0
172	18	2.53e-03	-1.61e-03	-0.04	5.64e-05	1.38e-05	0.0
172	36	-3.03e-04	-3.80e-03	-0.04	5.90e-05	1.30e-05	0.0
172	42	3.93e-03	-2.83e-03	-0.04	5.65e-05	1.44e-05	0.0
172	50	3.85e-03	-1.89e-03	-0.04	5.67e-05	1.40e-05	0.0
172	68	-6.50e-04	-5.37e-03	-0.04	6.08e-05	1.28e-05	0.0
172	70	3.44e-04	-1.39e-03	-0.04	6.77e-05	1.62e-05	0.0
172	72	2.98e-04	-1.19e-03	-0.04	5.82e-05	1.40e-05	0.0
173	2	3.82e-04	-7.64e-04	-0.05	3.73e-05	1.77e-05	0.0
173	10	2.49e-03	-1.53e-03	-0.04	2.33e-05	1.15e-05	0.0
173	18	2.48e-03	-9.34e-04	-0.04	2.33e-05	1.14e-05	0.0
173	36	-3.99e-04	-3.10e-03	-0.04	2.46e-05	1.09e-05	0.0
173	42	3.82e-03	-2.15e-03	-0.04	2.34e-05	1.17e-05	0.0
173	50	3.80e-03	-1.21e-03	-0.04	2.36e-05	1.15e-05	0.0
173	68	-7.75e-04	-4.65e-03	-0.04	2.56e-05	1.08e-05	0.0
173	70	2.86e-04	-5.70e-04	-0.04	2.78e-05	1.33e-05	0.0
173	72	2.48e-04	-4.90e-04	-0.04	2.40e-05	1.16e-05	0.0
174	2	3.69e-04	3.26e-04	-0.05	-1.60e-05	1.71e-05	0.0
174	9	2.46e-03	6.61e-04	-0.04	-1.02e-05	1.10e-05	0.0
174	17	2.48e-03	1.25e-03	-0.04	-1.02e-05	1.10e-05	0.0
174	31	-4.23e-04	2.82e-03	-0.04	-1.13e-05	1.06e-05	0.0
174	41	3.78e-03	9.33e-04	-0.04	-1.04e-05	1.11e-05	0.0
174	49	3.80e-03	1.88e-03	-0.04	-1.03e-05	1.12e-05	0.0
174	63	-8.09e-04	4.37e-03	-0.04	-1.21e-05	1.05e-05	0.0
174	70	2.77e-04	2.43e-04	-0.04	-1.19e-05	1.28e-05	0.0
174	72	2.40e-04	2.09e-04	-0.04	-1.03e-05	1.12e-05	0.0
175	2	4.18e-04	1.42e-03	-0.05	-6.93e-05	1.95e-05	0.0
175	9	2.49e-03	1.34e-03	-0.04	-4.31e-05	1.25e-05	0.0
175	17	2.54e-03	1.93e-03	-0.04	-4.30e-05	1.27e-05	0.0
175	31	-3.44e-04	3.52e-03	-0.04	-4.51e-05	1.19e-05	0.0
175	41	3.81e-03	1.61e-03	-0.04	-4.34e-05	1.27e-05	0.0
175	49	3.89e-03	2.55e-03	-0.04	-4.32e-05	1.30e-05	0.0
175	63	-7.01e-04	5.08e-03	-0.04	-4.65e-05	1.17e-05	0.0
175	70	3.13e-04	1.06e-03	-0.04	-5.18e-05	1.47e-05	0.0
175	72	2.71e-04	9.09e-04	-0.04	-4.45e-05	1.27e-05	0.0
176	2	5.37e-04	2.51e-03	-0.05	-1.23e-04	2.55e-05	0.0
176	17	2.65e-03	2.61e-03	-0.04	-7.62e-05	1.68e-05	0.0
176	29	1.10e-03	4.05e-03	-0.04	-7.98e-05	1.56e-05	0.0
176	31	-2.24e-04	4.23e-03	-0.04	-8.02e-05	1.53e-05	0.0

176	49	4.02e-03	3.24e-03	-0.04	-7.65e-05	1.73e-05	0.0
176	61	1.55e-03	5.53e-03	-0.04	-8.23e-05	1.54e-05	0.0
176	63	-5.53e-04	5.82e-03	-0.04	-8.28e-05	1.49e-05	0.0
176	70	4.02e-04	1.88e-03	-0.04	-9.17e-05	1.91e-05	0.0
176	72	3.47e-04	1.61e-03	-0.04	-7.88e-05	1.66e-05	0.0
177	2	7.45e-04	3.60e-03	-0.06	-1.76e-04	3.60e-05	0.0
177	17	2.83e-03	3.29e-03	-0.04	-1.09e-04	2.39e-05	0.0
177	29	1.27e-03	4.79e-03	-0.05	-1.16e-04	2.20e-05	0.0
177	31	-5.06e-05	4.97e-03	-0.05	-1.16e-04	2.14e-05	0.0
177	49	4.22e-03	3.93e-03	-0.04	-1.10e-04	2.48e-05	0.0
177	61	1.75e-03	6.31e-03	-0.05	-1.20e-04	2.18e-05	0.0
177	63	-3.53e-04	6.60e-03	-0.05	-1.21e-04	2.08e-05	0.0
177	70	5.58e-04	2.69e-03	-0.05	-1.31e-04	2.70e-05	0.0
177	72	4.80e-04	2.30e-03	-0.05	-1.13e-04	2.33e-05	0.0
178	2	1.08e-03	4.61e-03	-0.07	-2.25e-04	5.35e-05	0.0
178	17	3.08e-03	3.93e-03	-0.05	-1.40e-04	3.54e-05	0.0
178	29	1.52e-03	5.52e-03	-0.05	-1.51e-04	3.28e-05	0.0
178	31	1.94e-04	5.70e-03	-0.05	-1.52e-04	3.18e-05	0.0
178	49	4.51e-03	4.58e-03	-0.05	-1.42e-04	3.68e-05	0.0
178	61	2.03e-03	7.10e-03	-0.05	-1.59e-04	3.26e-05	0.0
178	63	-8.27e-05	7.40e-03	-0.05	-1.60e-04	3.11e-05	0.0
178	70	8.05e-04	3.44e-03	-0.05	-1.68e-04	4.01e-05	0.0
178	72	6.93e-04	2.95e-03	-0.05	-1.44e-04	3.45e-05	0.0
179	1	3.52e-04	3.25e-03	-0.06	-1.60e-04	1.19e-05	0.0
179	2	3.03e-04	3.86e-03	-0.07	-1.90e-04	8.09e-06	0.0
179	13	3.05e-03	2.85e-03	-0.05	-1.34e-04	2.91e-05	0.0
179	17	3.15e-03	2.51e-03	-0.05	-1.33e-04	2.88e-05	0.0
179	21	9.46e-04	5.38e-03	-0.05	-1.35e-04	1.40e-05	0.0
179	45	4.70e-03	3.06e-03	-0.05	-1.41e-04	4.10e-05	0.0
179	49	4.86e-03	2.52e-03	-0.05	-1.39e-04	4.05e-05	0.0
179	53	1.35e-03	7.08e-03	-0.05	-1.41e-04	1.69e-05	0.0
179	69	2.67e-04	2.49e-03	-0.05	-1.23e-04	9.02e-06	0.0
179	70	2.35e-04	2.90e-03	-0.05	-1.43e-04	6.45e-06	0.0
179	71	2.67e-04	2.49e-03	-0.05	-1.23e-04	9.02e-06	0.0
179	72	2.61e-04	2.58e-03	-0.05	-1.27e-04	8.50e-06	0.0
180	2	9.99e-04	-6.94e-03	-0.10	3.30e-04	5.20e-05	0.0
180	10	3.24e-03	-5.46e-03	-0.07	2.12e-04	4.37e-05	0.0
180	30	1.72e-03	-7.56e-03	-0.07	2.38e-04	3.81e-05	0.0
180	34	1.65e-03	-7.39e-03	-0.07	2.38e-04	3.70e-05	0.0
180	42	4.79e-03	-6.21e-03	-0.07	2.19e-04	5.06e-05	0.0
180	62	2.37e-03	-9.54e-03	-0.08	2.61e-04	4.17e-05	0.0
180	66	2.25e-03	-9.28e-03	-0.08	2.61e-04	3.99e-05	0.0
180	70	7.47e-04	-5.18e-03	-0.08	2.46e-04	3.89e-05	0.0
180	72	6.42e-04	-4.39e-03	-0.07	2.09e-04	3.34e-05	0.0
181	2	1.56e-04	-6.84e-03	-0.09	3.25e-04	1.86e-05	0.0
181	5	2.74e-03	-3.89e-03	-0.06	1.92e-04	2.22e-05	0.0
181	34	1.01e-03	-7.17e-03	-0.07	2.28e-04	1.18e-05	0.0
181	36	-3.76e-04	-7.34e-03	-0.07	2.28e-04	7.99e-06	0.0
181	37	4.28e-03	-3.73e-03	-0.06	1.88e-04	2.82e-05	0.0
181	66	1.54e-03	-8.94e-03	-0.07	2.45e-04	1.17e-05	0.0
181	68	-6.65e-04	-9.22e-03	-0.07	2.46e-04	5.55e-06	0.0
181	70	1.19e-04	-5.10e-03	-0.07	2.43e-04	1.40e-05	0.0
181	72	1.16e-04	-4.34e-03	-0.07	2.07e-04	1.25e-05	0.0
182	2	4.34e-04	-5.47e-03	-0.08	2.64e-04	2.14e-05	0.0
182	10	2.75e-03	-4.47e-03	-0.06	1.66e-04	1.79e-05	0.0
182	34	1.17e-03	-6.07e-03	-0.06	1.77e-04	1.39e-05	0.0
182	36	-1.72e-04	-6.24e-03	-0.06	1.78e-04	1.22e-05	0.0
182	42	4.20e-03	-5.12e-03	-0.06	1.68e-04	2.05e-05	0.0
182	66	1.70e-03	-7.68e-03	-0.06	1.87e-04	1.42e-05	0.0
182	68	-4.34e-04	-7.95e-03	-0.06	1.87e-04	1.14e-05	0.0
182	70	3.26e-04	-4.09e-03	-0.06	1.97e-04	1.61e-05	0.0
182	72	2.83e-04	-3.50e-03	-0.06	1.69e-04	1.40e-05	0.0
183	2	3.28e-04	-4.29e-03	-0.07	2.08e-04	1.52e-05	0.0
183	10	2.61e-03	-3.71e-03	-0.05	1.30e-04	1.24e-05	0.0
183	30	1.08e-03	-5.39e-03	-0.05	1.37e-04	1.00e-05	0.0
183	36	-2.90e-04	-5.39e-03	-0.05	1.37e-04	8.58e-06	0.0
183	42	4.02e-03	-4.35e-03	-0.05	1.32e-04	1.41e-05	0.0
183	62	1.60e-03	-7.02e-03	-0.05	1.43e-04	1.03e-05	0.0
183	68	-5.82e-04	-7.02e-03	-0.05	1.43e-04	7.97e-06	0.0
183	70	2.46e-04	-3.20e-03	-0.05	1.55e-04	1.14e-05	0.0
183	72	2.14e-04	-2.74e-03	-0.05	1.33e-04	9.99e-06	0.0
184	2	2.43e-04	-3.11e-03	-0.06	1.51e-04	1.10e-05	0.0
184	10	2.50e-03	-2.97e-03	-0.04	9.44e-05	8.60e-06	0.0
184	30	9.73e-04	-4.58e-03	-0.04	9.84e-05	7.28e-06	0.0
184	42	3.88e-03	-3.59e-03	-0.04	9.54e-05	9.53e-06	0.0
184	62	1.46e-03	-6.16e-03	-0.04	1.02e-04	7.43e-06	0.0

184	70	1.83e-04	-2.32e-03	-0.04	1.13e-04	8.26e-06	0.0
184	72	1.60e-04	-1.99e-03	-0.04	9.69e-05	7.27e-06	0.0
185	2	1.91e-04	-1.94e-03	-0.05	9.45e-05	8.43e-06	0.0
185	10	2.42e-03	-2.24e-03	-0.04	5.90e-05	6.31e-06	0.0
185	30	8.84e-04	-3.81e-03	-0.04	6.11e-05	5.59e-06	0.0
185	42	3.77e-03	-2.85e-03	-0.04	5.95e-05	6.81e-06	0.0
185	62	1.33e-03	-5.35e-03	-0.04	6.27e-05	5.66e-06	0.0
185	70	1.44e-04	-1.45e-03	-0.04	7.06e-05	6.35e-06	0.0
185	72	1.26e-04	-1.25e-03	-0.04	6.07e-05	5.64e-06	0.0
186	2	1.64e-04	-7.96e-04	-0.05	3.88e-05	7.15e-06	0.0
186	10	2.36e-03	-1.52e-03	-0.04	2.44e-05	5.14e-06	0.0
186	30	8.13e-04	-3.08e-03	-0.04	2.54e-05	4.78e-06	0.0
186	42	3.69e-03	-2.13e-03	-0.04	2.47e-05	5.41e-06	0.0
186	62	1.23e-03	-4.60e-03	-0.04	2.63e-05	4.83e-06	0.0
186	70	1.24e-04	-5.95e-04	-0.04	2.90e-05	5.39e-06	0.0
186	72	1.10e-04	-5.11e-04	-0.04	2.49e-05	4.83e-06	0.0
187	2	1.60e-04	3.40e-04	-0.05	-1.66e-05	6.93e-06	0.0
187	17	2.35e-03	1.24e-03	-0.04	-1.07e-05	4.95e-06	0.0
187	31	-5.51e-04	2.79e-03	-0.04	-1.16e-05	4.43e-06	0.0
187	49	3.68e-03	1.84e-03	-0.04	-1.10e-05	5.17e-06	0.0
187	63	-9.36e-04	4.31e-03	-0.04	-1.23e-05	4.36e-06	0.0
187	70	1.20e-04	2.54e-04	-0.04	-1.24e-05	5.23e-06	0.0
187	72	1.06e-04	2.18e-04	-0.04	-1.06e-05	4.69e-06	0.0
188	2	1.76e-04	1.48e-03	-0.05	-7.21e-05	7.75e-06	0.0
188	17	2.40e-03	1.94e-03	-0.04	-4.50e-05	5.73e-06	0.0
188	31	-4.90e-04	3.51e-03	-0.04	-4.66e-05	4.80e-06	0.0
188	49	3.75e-03	2.55e-03	-0.04	-4.54e-05	6.13e-06	0.0
188	63	-8.45e-04	5.05e-03	-0.04	-4.79e-05	4.66e-06	0.0
188	70	1.32e-04	1.11e-03	-0.04	-5.38e-05	5.84e-06	0.0
188	72	1.17e-04	9.49e-04	-0.04	-4.63e-05	5.21e-06	0.0
189	2	2.15e-04	2.64e-03	-0.06	-1.28e-04	9.70e-06	0.0
189	17	2.46e-03	2.67e-03	-0.04	-8.01e-05	7.52e-06	0.0
189	31	-4.17e-04	4.27e-03	-0.04	-8.33e-05	5.78e-06	0.0
189	33	9.36e-04	4.27e-03	-0.04	-8.32e-05	6.42e-06	0.0
189	49	3.84e-03	3.28e-03	-0.04	-8.09e-05	8.27e-06	0.0
189	63	-7.44e-04	5.83e-03	-0.04	-8.58e-05	5.51e-06	0.0
189	65	1.41e-03	5.83e-03	-0.04	-8.57e-05	6.54e-06	0.0
189	70	1.62e-04	1.97e-03	-0.04	-9.58e-05	7.30e-06	0.0
189	72	1.42e-04	1.69e-03	-0.04	-8.23e-05	6.45e-06	0.0
190	2	2.81e-04	3.81e-03	-0.06	-1.85e-04	1.31e-05	0.0
190	17	2.56e-03	3.41e-03	-0.05	-1.16e-04	1.06e-05	0.0
190	31	-3.32e-04	5.06e-03	-0.05	-1.22e-04	7.43e-06	0.0
190	33	1.03e-03	5.06e-03	-0.05	-1.22e-04	8.62e-06	0.0
190	49	3.96e-03	4.04e-03	-0.05	-1.17e-04	1.20e-05	0.0
190	63	-6.32e-04	6.67e-03	-0.05	-1.26e-04	6.93e-06	0.0
190	65	1.54e-03	6.67e-03	-0.05	-1.26e-04	8.82e-06	0.0
190	70	2.11e-04	2.85e-03	-0.05	-1.38e-04	9.81e-06	0.0
190	72	1.84e-04	2.44e-03	-0.05	-1.19e-04	8.59e-06	0.0
191	2	3.59e-04	5.01e-03	-0.07	-2.42e-04	1.76e-05	0.0
191	17	2.68e-03	4.16e-03	-0.05	-1.52e-04	1.49e-05	0.0
191	29	1.10e-03	5.73e-03	-0.05	-1.61e-04	1.14e-05	0.0
191	31	-2.36e-04	5.90e-03	-0.05	-1.61e-04	9.96e-06	0.0
191	49	4.12e-03	4.81e-03	-0.05	-1.54e-04	1.71e-05	0.0
191	61	1.62e-03	7.30e-03	-0.05	-1.69e-04	1.17e-05	0.0
191	63	-5.08e-04	7.57e-03	-0.05	-1.69e-04	9.29e-06	0.0
191	70	2.69e-04	3.74e-03	-0.06	-1.81e-04	1.32e-05	0.0
191	72	2.34e-04	3.20e-03	-0.05	-1.55e-04	1.15e-05	0.0
192	1	6.67e-05	5.02e-03	-0.08	-2.41e-04	1.03e-05	0.0
192	2	5.57e-05	6.32e-03	-0.09	-3.02e-04	1.19e-05	0.0
192	14	2.62e-03	3.61e-03	-0.06	-1.80e-04	1.59e-05	0.0
192	29	9.26e-04	6.71e-03	-0.06	-2.08e-04	7.14e-06	0.0
192	31	-4.41e-04	6.89e-03	-0.06	-2.08e-04	4.14e-06	0.0
192	46	4.14e-03	3.47e-03	-0.06	-1.77e-04	2.06e-05	0.0
192	61	1.44e-03	8.40e-03	-0.06	-2.21e-04	6.67e-06	0.0
192	63	-7.32e-04	8.68e-03	-0.06	-2.22e-04	1.91e-06	0.0
192	69	5.11e-05	3.85e-03	-0.06	-1.85e-04	7.93e-06	0.0
192	70	4.38e-05	4.72e-03	-0.07	-2.26e-04	8.95e-06	0.0
192	71	5.11e-05	3.85e-03	-0.06	-1.85e-04	7.93e-06	0.0
192	72	4.96e-05	4.02e-03	-0.06	-1.93e-04	8.14e-06	0.0
193	2	1.03e-03	7.01e-03	-0.10	-3.33e-04	5.30e-05	0.0
193	17	3.25e-03	5.51e-03	-0.07	-2.13e-04	4.41e-05	0.0
193	29	1.67e-03	7.44e-03	-0.07	-2.40e-04	3.79e-05	0.0
193	33	1.75e-03	7.61e-03	-0.07	-2.40e-04	3.90e-05	0.0
193	49	4.79e-03	6.27e-03	-0.07	-2.20e-04	5.08e-05	0.0
193	61	2.29e-03	9.33e-03	-0.08	-2.63e-04	4.10e-05	0.0
193	65	2.40e-03	9.60e-03	-0.08	-2.63e-04	4.27e-05	0.0

193	70	7.71e-04	5.23e-03	-0.08	-2.48e-04	3.97e-05	0.0
193	72	6.61e-04	4.43e-03	-0.07	-2.11e-04	3.41e-05	0.0
194	1	2.98e-05	-5.22e-03	-0.08	2.53e-04	2.07e-06	0.0
194	2	2.72e-05	-6.58e-03	-0.09	3.19e-04	2.18e-06	0.0
194	10	2.69e-03	-5.19e-03	-0.07	2.03e-04	1.24e-05	0.0
194	30	1.06e-03	-7.11e-03	-0.07	2.23e-04	4.37e-06	0.0
194	42	4.26e-03	-5.89e-03	-0.07	2.08e-04	1.88e-05	0.0
194	62	1.68e-03	-8.95e-03	-0.07	2.39e-04	6.03e-06	0.0
194	69	2.27e-05	-4.01e-03	-0.06	1.94e-04	1.59e-06	0.0
194	70	2.09e-05	-4.91e-03	-0.07	2.38e-04	1.66e-06	0.0
194	71	2.27e-05	-4.01e-03	-0.06	1.94e-04	1.59e-06	0.0
194	72	2.23e-05	-4.19e-03	-0.07	2.03e-04	1.60e-06	0.0
195	2	9.50e-05	-5.53e-03	-0.08	2.66e-04	3.70e-06	0.0
195	10	2.53e-03	-4.50e-03	-0.06	1.68e-04	6.99e-06	0.0
195	30	1.01e-03	-6.28e-03	-0.06	1.79e-04	3.57e-06	0.0
195	42	3.99e-03	-5.17e-03	-0.06	1.71e-04	9.68e-06	0.0
195	62	1.57e-03	-7.99e-03	-0.06	1.89e-04	4.25e-06	0.0
195	70	7.13e-05	-4.13e-03	-0.06	1.98e-04	2.79e-06	0.0
195	72	6.34e-05	-3.53e-03	-0.06	1.70e-04	2.51e-06	0.0
196	2	8.36e-05	-4.32e-03	-0.07	2.09e-04	3.18e-06	0.0
196	10	2.46e-03	-3.73e-03	-0.05	1.32e-04	5.10e-06	0.0
196	30	9.39e-04	-5.40e-03	-0.05	1.38e-04	2.88e-06	0.0
196	42	3.88e-03	-4.36e-03	-0.05	1.34e-04	6.84e-06	0.0
196	62	1.46e-03	-7.02e-03	-0.05	1.44e-04	3.31e-06	0.0
196	70	6.29e-05	-3.23e-03	-0.05	1.56e-04	2.41e-06	0.0
196	72	5.65e-05	-2.77e-03	-0.05	1.34e-04	2.21e-06	0.0
197	2	7.61e-05	-3.13e-03	-0.06	1.52e-04	2.84e-06	0.0
197	10	2.39e-03	-2.97e-03	-0.04	9.53e-05	3.60e-06	0.0
197	30	8.73e-04	-4.58e-03	-0.04	9.90e-05	2.37e-06	0.0
197	42	3.78e-03	-3.59e-03	-0.04	9.65e-05	4.55e-06	0.0
197	62	1.36e-03	-6.15e-03	-0.04	1.02e-04	2.60e-06	0.0
197	70	5.74e-05	-2.33e-03	-0.04	1.13e-04	2.16e-06	0.0
197	72	5.22e-05	-2.00e-03	-0.04	9.74e-05	2.02e-06	0.0
198	2	7.06e-05	-1.95e-03	-0.05	9.49e-05	2.59e-06	0.0
198	10	2.34e-03	-2.23e-03	-0.04	5.96e-05	2.72e-06	0.0
198	30	8.12e-04	-3.80e-03	-0.04	6.14e-05	2.07e-06	0.0
198	42	3.70e-03	-2.84e-03	-0.04	6.02e-05	3.22e-06	0.0
198	62	1.26e-03	-5.34e-03	-0.04	6.31e-05	2.19e-06	0.0
198	70	5.34e-05	-1.46e-03	-0.04	7.09e-05	1.98e-06	0.0
198	72	4.91e-05	-1.25e-03	-0.04	6.10e-05	1.88e-06	0.0
199	2	6.72e-05	-8.00e-04	-0.05	3.89e-05	2.44e-06	0.0
199	10	2.30e-03	-1.51e-03	-0.04	2.46e-05	2.23e-06	0.0
199	30	7.54e-04	-3.06e-03	-0.04	2.56e-05	1.90e-06	0.0
199	42	3.64e-03	-2.12e-03	-0.04	2.50e-05	2.50e-06	0.0
199	62	1.17e-03	-4.58e-03	-0.04	2.65e-05	1.97e-06	0.0
199	70	5.09e-05	-5.98e-04	-0.04	2.91e-05	1.87e-06	0.0
199	72	4.71e-05	-5.13e-04	-0.04	2.50e-05	1.80e-06	0.0
200	2	6.62e-05	3.41e-04	-0.05	-1.66e-05	2.42e-06	0.0
200	17	2.29e-03	1.23e-03	-0.04	-1.08e-05	2.15e-06	0.0
200	31	-6.08e-04	2.78e-03	-0.04	-1.16e-05	1.67e-06	0.0
200	49	3.62e-03	1.83e-03	-0.04	-1.11e-05	2.37e-06	0.0
200	63	-9.93e-04	4.29e-03	-0.04	-1.24e-05	1.61e-06	0.0
200	70	5.02e-05	2.55e-04	-0.04	-1.24e-05	1.85e-06	0.0
200	72	4.65e-05	2.19e-04	-0.04	-1.07e-05	1.79e-06	0.0
201	2	6.77e-05	1.49e-03	-0.05	-7.24e-05	2.51e-06	0.0
201	17	2.33e-03	1.94e-03	-0.04	-4.54e-05	2.50e-06	0.0
201	31	-5.55e-04	3.50e-03	-0.04	-4.67e-05	1.65e-06	0.0
201	49	3.68e-03	2.54e-03	-0.04	-4.59e-05	2.91e-06	0.0
201	63	-9.09e-04	5.02e-03	-0.04	-4.80e-05	1.55e-06	0.0
201	70	5.12e-05	1.11e-03	-0.04	-5.41e-05	1.92e-06	0.0
201	72	4.73e-05	9.54e-04	-0.04	-4.65e-05	1.84e-06	0.0
202	2	7.13e-05	2.65e-03	-0.06	-1.29e-04	2.70e-06	0.0
202	17	2.38e-03	2.67e-03	-0.04	-8.09e-05	3.23e-06	0.0
202	33	8.50e-04	4.26e-03	-0.04	-8.37e-05	2.23e-06	0.0
202	49	3.75e-03	3.28e-03	-0.04	-8.18e-05	4.01e-06	0.0
202	65	1.32e-03	5.81e-03	-0.04	-8.62e-05	2.42e-06	0.0
202	70	5.39e-05	1.98e-03	-0.04	-9.62e-05	2.06e-06	0.0
202	72	4.92e-05	1.70e-03	-0.04	-8.27e-05	1.94e-06	0.0
203	2	7.65e-05	3.84e-03	-0.06	-1.86e-04	2.97e-06	0.0
203	17	2.43e-03	3.42e-03	-0.05	-1.17e-04	4.44e-06	0.0
203	33	9.13e-04	5.06e-03	-0.05	-1.22e-04	2.62e-06	0.0
203	49	3.84e-03	4.05e-03	-0.05	-1.19e-04	5.85e-06	0.0
203	65	1.42e-03	6.66e-03	-0.05	-1.27e-04	2.96e-06	0.0
203	70	5.76e-05	2.87e-03	-0.05	-1.39e-04	2.26e-06	0.0
203	72	5.21e-05	2.46e-03	-0.05	-1.19e-04	2.09e-06	0.0
204	2	8.15e-05	5.05e-03	-0.07	-2.43e-04	3.25e-06	0.0

204	17	2.51e-03	4.19e-03	-0.05	-1.54e-04	6.23e-06	0.0
204	33	9.81e-04	5.92e-03	-0.05	-1.63e-04	3.20e-06	0.0
204	49	3.95e-03	4.84e-03	-0.05	-1.56e-04	8.62e-06	0.0
204	65	1.53e-03	7.59e-03	-0.05	-1.71e-04	3.80e-06	0.0
204	70	6.13e-05	3.77e-03	-0.06	-1.82e-04	2.46e-06	0.0
204	72	5.49e-05	3.23e-03	-0.05	-1.56e-04	2.24e-06	0.0
205	2	-1.10e-05	6.17e-03	-0.09	-2.98e-04	0.0	0.0
205	4	-1.14e-05	5.02e-03	-0.07	-2.42e-04	0.0	0.0
205	20	-2.59e-03	2.62e-03	-0.06	-1.76e-04	-6.95e-06	0.0
205	33	9.97e-04	6.75e-03	-0.06	-2.04e-04	2.44e-06	0.0
205	52	-4.12e-03	1.94e-03	-0.06	-1.72e-04	-1.15e-05	0.0
205	65	1.59e-03	8.52e-03	-0.06	-2.16e-04	3.47e-06	0.0
205	70	-7.61e-06	4.61e-03	-0.07	-2.23e-04	0.0	0.0
205	72	-2.03e-06	3.93e-03	-0.06	-1.90e-04	0.0	0.0
206	2	8.12e-05	6.99e-03	-0.11	-3.54e-04	4.00e-06	-1.97e-06
206	17	2.75e-03	5.48e-03	-0.07	-2.28e-04	1.99e-05	-2.76e-06
206	33	1.15e-03	7.58e-03	-0.07	-2.60e-04	8.43e-06	-2.95e-06
206	49	4.34e-03	6.22e-03	-0.07	-2.36e-04	3.00e-05	-3.72e-06
206	65	1.79e-03	9.56e-03	-0.08	-2.87e-04	1.18e-05	-4.02e-06
206	70	6.09e-05	5.22e-03	-0.08	-2.64e-04	3.02e-06	-1.46e-06
206	72	5.44e-05	4.42e-03	-0.07	-2.24e-04	2.76e-06	-1.20e-06
207	2	-1.06e-03	-6.82e-03	-0.10	3.24e-04	-5.72e-05	0.0
207	8	-3.21e-03	-4.41e-03	-0.07	2.01e-04	-4.36e-05	0.0
207	30	3.59e-04	-7.40e-03	-0.07	2.32e-04	-3.56e-05	0.0
207	40	-4.72e-03	-4.58e-03	-0.07	2.04e-04	-4.86e-05	0.0
207	62	9.54e-04	-9.33e-03	-0.08	2.53e-04	-3.59e-05	0.0
207	70	-7.93e-04	-5.08e-03	-0.08	2.42e-04	-4.28e-05	0.0
207	72	-6.79e-04	-4.31e-03	-0.07	2.06e-04	-3.66e-05	0.0
208	2	-3.22e-04	-6.86e-03	-0.09	3.24e-04	-2.72e-05	0.0
208	11	-2.81e-03	-2.94e-03	-0.06	1.86e-04	-2.54e-05	0.0
208	30	8.77e-04	-7.33e-03	-0.07	2.28e-04	-1.32e-05	0.0
208	43	-4.34e-03	-2.21e-03	-0.06	1.79e-04	-3.04e-05	0.0
208	62	1.52e-03	-9.20e-03	-0.07	2.46e-04	-1.10e-05	0.0
208	70	-2.43e-04	-5.12e-03	-0.07	2.42e-04	-2.04e-05	0.0
208	72	-2.16e-04	-4.36e-03	-0.07	2.06e-04	-1.77e-05	0.0
209	2	-4.43e-04	-5.44e-03	-0.08	2.62e-04	-2.35e-05	0.0
209	11	-2.74e-03	-2.21e-03	-0.05	1.54e-04	-1.86e-05	0.0
209	30	6.80e-04	-6.19e-03	-0.06	1.77e-04	-1.29e-05	0.0
209	43	-4.19e-03	-1.55e-03	-0.05	1.50e-04	-2.11e-05	0.0
209	62	1.24e-03	-7.88e-03	-0.06	1.87e-04	-1.20e-05	0.0
209	70	-3.31e-04	-4.06e-03	-0.06	1.95e-04	-1.76e-05	0.0
209	72	-2.84e-04	-3.48e-03	-0.06	1.67e-04	-1.51e-05	0.0
210	2	-2.82e-04	-4.27e-03	-0.07	2.07e-04	-1.48e-05	0.0
210	11	-2.57e-03	-1.54e-03	-0.05	1.23e-04	-1.17e-05	0.0
210	30	7.20e-04	-5.35e-03	-0.05	1.37e-04	-7.74e-06	0.0
210	43	-3.98e-03	-9.10e-04	-0.05	1.20e-04	-1.33e-05	0.0
210	62	1.25e-03	-6.95e-03	-0.05	1.43e-04	-7.00e-06	0.0
210	70	-2.11e-04	-3.19e-03	-0.05	1.54e-04	-1.11e-05	0.0
210	72	-1.79e-04	-2.73e-03	-0.05	1.32e-04	-9.41e-06	0.0
211	2	-1.73e-04	-3.10e-03	-0.06	1.50e-04	-9.31e-06	0.0
211	11	-2.44e-03	-8.61e-04	-0.04	9.01e-05	-7.03e-06	0.0
211	30	7.23e-04	-4.54e-03	-0.04	9.84e-05	-4.85e-06	0.0
211	43	-3.82e-03	-2.47e-04	-0.04	8.86e-05	-7.91e-06	0.0
211	62	1.21e-03	-6.09e-03	-0.04	1.02e-04	-4.45e-06	0.0
211	70	-1.29e-04	-2.31e-03	-0.04	1.12e-04	-6.94e-06	0.0
211	72	-1.08e-04	-1.99e-03	-0.04	9.65e-05	-5.82e-06	0.0
212	2	-1.09e-04	-1.94e-03	-0.05	9.43e-05	-6.14e-06	0.0
212	10	2.23e-03	-2.21e-03	-0.04	5.95e-05	-2.77e-06	0.0
212	11	-2.36e-03	-1.71e-04	-0.04	5.66e-05	-4.32e-06	0.0
212	30	7.03e-04	-3.77e-03	-0.04	6.11e-05	-3.17e-06	0.0
212	42	3.58e-03	-2.81e-03	-0.04	6.03e-05	-2.32e-06	0.0
212	43	-3.71e-03	4.31e-04	-0.04	5.58e-05	-4.77e-06	0.0
212	62	1.15e-03	-5.29e-03	-0.04	6.29e-05	-2.94e-06	0.0
212	70	-8.14e-05	-1.45e-03	-0.04	7.04e-05	-4.56e-06	0.0
212	72	-6.68e-05	-1.24e-03	-0.04	6.05e-05	-3.75e-06	0.0
213	2	-7.87e-05	-7.94e-04	-0.05	3.87e-05	-4.60e-06	0.0
213	10	2.21e-03	-1.50e-03	-0.04	2.46e-05	-2.21e-06	0.0
213	11	-2.30e-03	5.20e-04	-0.04	2.30e-05	-2.94e-06	0.0
213	30	6.64e-04	-3.03e-03	-0.04	2.55e-05	-2.41e-06	0.0
213	42	3.54e-03	-2.09e-03	-0.04	2.51e-05	-2.00e-06	0.0
213	43	-3.63e-03	1.11e-03	-0.04	2.26e-05	-3.15e-06	0.0
213	62	1.08e-03	-4.54e-03	-0.04	2.64e-05	-2.30e-06	0.0
213	70	-5.83e-05	-5.93e-04	-0.04	2.89e-05	-3.41e-06	0.0
213	72	-4.67e-05	-5.10e-04	-0.04	2.48e-05	-2.74e-06	0.0
214	2	-7.40e-05	3.39e-04	-0.05	-1.65e-05	-4.35e-06	0.0
214	17	2.21e-03	1.21e-03	-0.04	-1.08e-05	-2.13e-06	0.0

214	20	-2.29e-03	-7.93e-04	-0.04	-9.53e-06	-2.70e-06	0.0
214	31	-6.93e-04	2.75e-03	-0.04	-1.15e-05	-2.46e-06	0.0
214	49	3.53e-03	1.80e-03	-0.04	-1.12e-05	-1.97e-06	0.0
214	52	-3.61e-03	-1.38e-03	-0.04	-9.15e-06	-2.86e-06	0.0
214	63	-1.08e-03	4.25e-03	-0.04	-1.22e-05	-2.48e-06	0.0
214	70	-5.48e-05	2.54e-04	-0.04	-1.24e-05	-3.22e-06	0.0
214	72	-4.37e-05	2.18e-04	-0.04	-1.06e-05	-2.58e-06	0.0
215	2	-9.43e-05	1.48e-03	-0.05	-7.19e-05	-5.33e-06	0.0
215	17	2.23e-03	1.92e-03	-0.04	-4.54e-05	-2.43e-06	0.0
215	20	-2.34e-03	-1.02e-04	-0.04	-4.32e-05	-3.64e-06	0.0
215	33	6.92e-04	3.47e-03	-0.04	-4.66e-05	-2.75e-06	0.0
215	49	3.58e-03	2.52e-03	-0.04	-4.61e-05	-2.08e-06	0.0
215	52	-3.68e-03	-6.98e-04	-0.04	-4.25e-05	-3.99e-06	0.0
215	65	1.13e-03	4.98e-03	-0.04	-4.80e-05	-2.58e-06	0.0
215	70	-7.00e-05	1.10e-03	-0.04	-5.37e-05	-3.95e-06	0.0
215	72	-5.69e-05	9.48e-04	-0.04	-4.62e-05	-3.22e-06	0.0
216	2	-1.43e-04	2.63e-03	-0.06	-1.28e-04	-7.75e-06	0.0
216	17	2.24e-03	2.64e-03	-0.04	-8.07e-05	-3.35e-06	0.0
216	20	-2.41e-03	5.88e-04	-0.04	-7.67e-05	-5.76e-06	0.0
216	33	7.20e-04	4.22e-03	-0.04	-8.32e-05	-4.00e-06	0.0
216	49	3.61e-03	3.25e-03	-0.04	-8.19e-05	-2.64e-06	0.0
216	52	-3.78e-03	-1.80e-05	-0.04	-7.55e-05	-6.47e-06	0.0
216	65	1.20e-03	5.76e-03	-0.04	-8.59e-05	-3.67e-06	0.0
216	70	-1.07e-04	1.97e-03	-0.04	-9.55e-05	-5.76e-06	0.0
216	72	-8.90e-05	1.69e-03	-0.04	-8.21e-05	-4.80e-06	0.0
217	2	-2.30e-04	3.80e-03	-0.06	-1.84e-04	-1.21e-05	0.0
217	20	-2.52e-03	1.28e-03	-0.04	-1.10e-04	-9.51e-06	0.0
217	33	7.30e-04	5.02e-03	-0.05	-1.21e-04	-6.25e-06	0.0
217	52	-3.92e-03	6.54e-04	-0.04	-1.08e-04	-1.08e-05	0.0
217	65	1.24e-03	6.60e-03	-0.05	-1.26e-04	-5.65e-06	0.0
217	70	-1.72e-04	2.84e-03	-0.05	-1.38e-04	-9.01e-06	0.0
217	72	-1.45e-04	2.43e-03	-0.05	-1.18e-04	-7.62e-06	0.0
218	2	-3.48e-04	4.99e-03	-0.07	-2.40e-04	-1.86e-05	0.0
218	20	-2.66e-03	1.96e-03	-0.05	-1.42e-04	-1.49e-05	0.0
218	33	7.17e-04	5.85e-03	-0.05	-1.61e-04	-9.91e-06	0.0
218	52	-4.10e-03	1.31e-03	-0.05	-1.39e-04	-1.70e-05	0.0
218	65	1.27e-03	7.50e-03	-0.05	-1.69e-04	-9.06e-06	0.0
218	70	-2.60e-04	3.72e-03	-0.06	-1.79e-04	-1.39e-05	0.0
218	72	-2.23e-04	3.19e-03	-0.05	-1.54e-04	-1.19e-05	0.0
219	2	-1.45e-04	6.36e-03	-0.09	-3.02e-04	-1.71e-05	0.0
219	20	-2.66e-03	2.69e-03	-0.06	-1.75e-04	-1.80e-05	0.0
219	33	9.65e-04	6.90e-03	-0.06	-2.09e-04	-6.89e-06	0.0
219	52	-4.18e-03	2.00e-03	-0.06	-1.70e-04	-2.22e-05	0.0
219	65	1.59e-03	8.68e-03	-0.06	-2.23e-04	-4.57e-06	0.0
219	70	-1.10e-04	4.75e-03	-0.07	-2.26e-04	-1.29e-05	0.0
219	72	-1.01e-04	4.05e-03	-0.06	-1.93e-04	-1.12e-05	0.0
220	2	-1.10e-03	6.88e-03	-0.10	-3.26e-04	-5.82e-05	0.0
220	15	-3.22e-03	4.46e-03	-0.07	-2.03e-04	-4.39e-05	0.0
220	31	-1.09e-03	7.45e-03	-0.07	-2.34e-04	-4.05e-05	0.0
220	33	3.24e-04	7.44e-03	-0.07	-2.34e-04	-3.67e-05	0.0
220	47	-4.73e-03	4.64e-03	-0.07	-2.06e-04	-4.89e-05	0.0
220	63	-1.33e-03	9.39e-03	-0.07	-2.55e-04	-4.34e-05	0.0
220	65	9.12e-04	9.38e-03	-0.08	-2.55e-04	-3.73e-05	0.0
220	70	-8.22e-04	5.13e-03	-0.08	-2.44e-04	-4.35e-05	0.0
220	72	-7.04e-04	4.35e-03	-0.07	-2.07e-04	-3.72e-05	0.0
221	2	-2.09e-03	-5.72e-03	-0.10	2.78e-04	-1.10e-04	0.0
221	8	-3.74e-03	-3.72e-03	-0.07	1.71e-04	-7.03e-05	0.0
221	30	-3.34e-04	-6.48e-03	-0.07	1.96e-04	-7.28e-05	0.0
221	40	-5.19e-03	-3.87e-03	-0.07	1.72e-04	-7.19e-05	0.0
221	62	2.23e-04	-8.25e-03	-0.07	2.11e-04	-7.59e-05	0.0
221	70	-1.56e-03	-4.26e-03	-0.07	2.08e-04	-8.25e-05	0.0
221	72	-1.33e-03	-3.63e-03	-0.07	1.77e-04	-7.05e-05	0.0
222	2	-1.72e-03	-5.59e-03	-0.09	2.72e-04	-9.06e-05	0.0
222	8	-3.49e-03	-3.64e-03	-0.06	1.67e-04	-5.74e-05	0.0
222	30	-1.09e-04	-6.35e-03	-0.06	1.89e-04	-5.82e-05	0.0
222	40	-4.92e-03	-3.78e-03	-0.06	1.67e-04	-5.85e-05	0.0
222	62	4.50e-04	-8.09e-03	-0.07	2.03e-04	-5.97e-05	0.0
222	70	-1.29e-03	-4.17e-03	-0.07	2.03e-04	-6.78e-05	0.0
222	72	-1.10e-03	-3.56e-03	-0.06	1.73e-04	-5.80e-05	0.0
223	2	-1.18e-03	-4.93e-03	-0.08	2.40e-04	-6.03e-05	0.0
223	11	-3.14e-03	-1.90e-03	-0.05	1.39e-04	-3.86e-05	0.0
223	30	2.17e-04	-5.83e-03	-0.06	1.64e-04	-3.64e-05	0.0
223	43	-4.56e-03	-1.25e-03	-0.05	1.35e-04	-3.96e-05	0.0
223	62	7.73e-04	-7.50e-03	-0.06	1.74e-04	-3.60e-05	0.0
223	70	-8.82e-04	-3.68e-03	-0.06	1.79e-04	-4.51e-05	0.0
223	72	-7.56e-04	-3.15e-03	-0.05	1.54e-04	-3.87e-05	0.0

224	2	-7.79e-04	-3.99e-03	-0.07	1.94e-04	-3.94e-05	0.0
224	11	-2.85e-03	-1.38e-03	-0.05	1.14e-04	-2.54e-05	0.0
224	30	4.09e-04	-5.13e-03	-0.05	1.30e-04	-2.32e-05	0.0
224	43	-4.24e-03	-7.59e-04	-0.05	1.11e-04	-2.61e-05	0.0
224	62	9.33e-04	-6.72e-03	-0.05	1.36e-04	-2.26e-05	0.0
224	70	-5.83e-04	-2.98e-03	-0.05	1.45e-04	-2.95e-05	0.0
224	72	-4.99e-04	-2.55e-03	-0.05	1.24e-04	-2.52e-05	0.0
225	2	-5.21e-04	-2.93e-03	-0.06	1.43e-04	-2.64e-05	0.0
225	10	2.01e-03	-2.82e-03	-0.04	9.12e-05	-1.54e-05	0.0
225	11	-2.64e-03	-7.77e-04	-0.04	8.48e-05	-1.68e-05	0.0
225	30	5.09e-04	-4.40e-03	-0.04	9.41e-05	-1.54e-05	0.0
225	42	3.38e-03	-3.43e-03	-0.04	9.31e-05	-1.50e-05	0.0
225	43	-4.01e-03	-1.75e-04	-0.04	8.29e-05	-1.72e-05	0.0
225	62	9.96e-04	-5.93e-03	-0.04	9.77e-05	-1.50e-05	0.0
225	70	-3.89e-04	-2.19e-03	-0.04	1.07e-04	-1.97e-05	0.0
225	72	-3.32e-04	-1.88e-03	-0.04	9.18e-05	-1.68e-05	0.0
226	2	-3.66e-04	-1.85e-03	-0.05	9.02e-05	-1.86e-05	0.0
226	10	2.06e-03	-2.13e-03	-0.04	5.74e-05	-1.10e-05	0.0
226	11	-2.51e-03	-1.37e-04	-0.04	5.37e-05	-1.16e-05	0.0
226	30	5.45e-04	-3.67e-03	-0.04	5.88e-05	-1.09e-05	0.0
226	42	3.41e-03	-2.72e-03	-0.04	5.85e-05	-1.08e-05	0.0
226	43	-3.85e-03	4.51e-04	-0.04	5.26e-05	-1.17e-05	0.0
226	62	9.97e-04	-5.17e-03	-0.04	6.08e-05	-1.06e-05	0.0
226	70	-2.74e-04	-1.38e-03	-0.04	6.74e-05	-1.39e-05	0.0
226	72	-2.32e-04	-1.18e-03	-0.04	5.79e-05	-1.18e-05	0.0
227	2	-2.89e-04	-7.60e-04	-0.05	3.71e-05	-1.48e-05	0.0
227	10	2.08e-03	-1.45e-03	-0.04	2.39e-05	-8.93e-06	0.0
227	11	-2.42e-03	5.16e-04	-0.04	2.18e-05	-8.88e-06	0.0
227	30	5.34e-04	-2.97e-03	-0.04	2.47e-05	-8.78e-06	0.0
227	42	3.40e-03	-2.03e-03	-0.04	2.45e-05	-8.94e-06	0.0
227	43	-3.75e-03	1.10e-03	-0.04	2.12e-05	-8.88e-06	0.0
227	62	9.51e-04	-4.45e-03	-0.04	2.58e-05	-8.70e-06	0.0
227	70	-2.16e-04	-5.68e-04	-0.04	2.77e-05	-1.11e-05	0.0
227	72	-1.82e-04	-4.87e-04	-0.04	2.38e-05	-9.34e-06	0.0
228	2	-2.77e-04	3.26e-04	-0.05	-1.59e-05	-1.42e-05	0.0
228	17	2.08e-03	1.18e-03	-0.04	-1.06e-05	-8.59e-06	0.0
228	20	-2.41e-03	-7.76e-04	-0.04	-8.96e-06	-8.44e-06	0.0
228	31	-8.16e-04	2.70e-03	-0.04	-1.12e-05	-8.41e-06	0.0
228	49	3.40e-03	1.75e-03	-0.04	-1.11e-05	-8.63e-06	0.0
228	52	-3.73e-03	-1.35e-03	-0.04	-8.47e-06	-8.40e-06	0.0
228	63	-1.20e-03	4.17e-03	-0.04	-1.20e-05	-8.36e-06	0.0
228	70	-2.07e-04	2.43e-04	-0.04	-1.19e-05	-1.06e-05	0.0
228	72	-1.74e-04	2.09e-04	-0.04	-1.02e-05	-8.93e-06	0.0
229	2	-3.27e-04	1.41e-03	-0.05	-6.89e-05	-1.66e-05	0.0
229	17	2.08e-03	1.86e-03	-0.04	-4.39e-05	-9.86e-06	0.0
229	20	-2.47e-03	-1.20e-04	-0.04	-4.10e-05	-1.02e-05	0.0
229	33	5.49e-04	3.39e-03	-0.04	-4.50e-05	-9.74e-06	0.0
229	49	3.42e-03	2.44e-03	-0.04	-4.48e-05	-9.75e-06	0.0
229	52	-3.82e-03	-7.02e-04	-0.04	-4.01e-05	-1.03e-05	0.0
229	65	9.89e-04	4.88e-03	-0.04	-4.65e-05	-9.56e-06	0.0
229	70	-2.44e-04	1.05e-03	-0.04	-5.15e-05	-1.24e-05	0.0
229	72	-2.07e-04	9.05e-04	-0.04	-4.43e-05	-1.05e-05	0.0
230	2	-4.47e-04	2.50e-03	-0.05	-1.22e-04	-2.26e-05	0.0
230	17	2.04e-03	2.54e-03	-0.04	-7.77e-05	-1.32e-05	0.0
230	20	-2.59e-03	5.27e-04	-0.04	-7.24e-05	-1.43e-05	0.0
230	33	5.34e-04	4.10e-03	-0.04	-7.99e-05	-1.32e-05	0.0
230	49	3.41e-03	3.14e-03	-0.04	-7.92e-05	-1.29e-05	0.0
230	52	-3.95e-03	-6.68e-05	-0.04	-7.09e-05	-1.46e-05	0.0
230	65	1.01e-03	5.62e-03	-0.04	-8.27e-05	-1.28e-05	0.0
230	70	-3.34e-04	1.87e-03	-0.04	-9.11e-05	-1.69e-05	0.0
230	72	-2.85e-04	1.60e-03	-0.04	-7.83e-05	-1.44e-05	0.0
231	2	-6.58e-04	3.57e-03	-0.06	-1.74e-04	-3.32e-05	0.0
231	20	-2.76e-03	1.15e-03	-0.04	-1.03e-04	-2.14e-05	0.0
231	33	4.64e-04	4.83e-03	-0.05	-1.16e-04	-1.94e-05	0.0
231	52	-4.15e-03	5.39e-04	-0.04	-1.00e-04	-2.20e-05	0.0
231	65	9.75e-04	6.39e-03	-0.05	-1.21e-04	-1.89e-05	0.0
231	70	-4.92e-04	2.67e-03	-0.05	-1.30e-04	-2.48e-05	0.0
231	72	-4.21e-04	2.29e-03	-0.05	-1.12e-04	-2.12e-05	0.0
232	2	-9.92e-04	4.57e-03	-0.07	-2.23e-04	-5.06e-05	0.0
232	20	-3.01e-03	1.71e-03	-0.05	-1.30e-04	-3.26e-05	0.0
232	33	3.18e-04	5.56e-03	-0.05	-1.51e-04	-3.01e-05	0.0
232	52	-4.43e-03	1.08e-03	-0.05	-1.26e-04	-3.35e-05	0.0
232	65	8.66e-04	7.19e-03	-0.05	-1.59e-04	-2.95e-05	0.0
232	70	-7.42e-04	3.41e-03	-0.05	-1.66e-04	-3.79e-05	0.0
232	72	-6.36e-04	2.92e-03	-0.05	-1.43e-04	-3.25e-05	0.0
233	2	-1.49e-03	5.37e-03	-0.08	-2.61e-04	-7.76e-05	0.0

233	20	-3.34e-03	2.15e-03	-0.06	-1.51e-04	-4.86e-05	0.0
233	33	3.95e-05	6.18e-03	-0.06	-1.81e-04	-4.87e-05	0.0
233	52	-4.77e-03	1.49e-03	-0.06	-1.46e-04	-4.91e-05	0.0
233	65	6.02e-04	7.90e-03	-0.06	-1.94e-04	-4.93e-05	0.0
233	70	-1.11e-03	4.01e-03	-0.06	-1.95e-04	-5.81e-05	0.0
233	72	-9.54e-04	3.43e-03	-0.06	-1.67e-04	-4.98e-05	0.0
234	2	-2.12e-03	5.70e-03	-0.10	-2.77e-04	-1.11e-04	0.0
234	15	-3.76e-03	3.72e-03	-0.07	-1.70e-04	-7.05e-05	0.0
234	33	-3.57e-04	6.46e-03	-0.07	-1.95e-04	-7.32e-05	0.0
234	47	-5.21e-03	3.87e-03	-0.07	-1.71e-04	-7.21e-05	0.0
234	65	1.97e-04	8.22e-03	-0.07	-2.10e-04	-7.65e-05	0.0
234	70	-1.58e-03	4.25e-03	-0.07	-2.07e-04	-8.28e-05	0.0
234	72	-1.35e-03	3.62e-03	-0.07	-1.77e-04	-7.07e-05	0.0
235	2	-2.35e-03	-4.95e-03	-0.09	2.43e-04	-1.22e-04	0.0
235	8	-3.82e-03	-3.27e-03	-0.06	1.49e-04	-7.38e-05	0.0
235	30	-5.42e-04	-5.87e-03	-0.07	1.70e-04	-8.26e-05	0.0
235	40	-5.22e-03	-3.42e-03	-0.06	1.49e-04	-7.32e-05	0.0
235	62	-1.30e-05	-7.56e-03	-0.07	1.83e-04	-8.73e-05	0.0
235	70	-1.76e-03	-3.69e-03	-0.07	1.81e-04	-9.15e-05	0.0
235	72	-1.50e-03	-3.15e-03	-0.06	1.55e-04	-7.81e-05	0.0
236	2	-2.01e-03	-4.81e-03	-0.08	2.37e-04	-1.04e-04	0.0
236	8	-3.59e-03	-3.18e-03	-0.06	1.45e-04	-6.24e-05	0.0
236	30	-3.19e-04	-5.76e-03	-0.06	1.64e-04	-6.83e-05	0.0
236	40	-4.98e-03	-3.33e-03	-0.06	1.45e-04	-6.17e-05	0.0
236	62	2.17e-04	-7.42e-03	-0.06	1.76e-04	-7.11e-05	0.0
236	70	-1.50e-03	-3.59e-03	-0.06	1.77e-04	-7.76e-05	0.0
236	72	-1.28e-03	-3.07e-03	-0.06	1.51e-04	-6.63e-05	0.0
237	2	-1.45e-03	-4.33e-03	-0.07	2.13e-04	-7.42e-05	0.0
237	11	-3.24e-03	-1.59e-03	-0.05	1.23e-04	-4.39e-05	0.0
237	30	1.14e-05	-5.38e-03	-0.05	1.46e-04	-4.71e-05	0.0
237	43	-4.62e-03	-9.59e-04	-0.05	1.19e-04	-4.29e-05	0.0
237	62	5.44e-04	-6.99e-03	-0.05	1.55e-04	-4.80e-05	0.0
237	70	-1.09e-03	-3.23e-03	-0.06	1.59e-04	-5.55e-05	0.0
237	72	-9.30e-04	-2.77e-03	-0.05	1.36e-04	-4.75e-05	0.0
238	2	-1.01e-03	-3.58e-03	-0.06	1.76e-04	-5.14e-05	0.0
238	11	-2.95e-03	-1.17e-03	-0.04	1.03e-04	-3.07e-05	0.0
238	30	2.48e-04	-4.83e-03	-0.05	1.18e-04	-3.15e-05	0.0
238	43	-4.32e-03	-5.59e-04	-0.04	9.97e-05	-3.03e-05	0.0
238	62	7.62e-04	-6.38e-03	-0.05	1.24e-04	-3.15e-05	0.0
238	70	-7.59e-04	-2.67e-03	-0.05	1.31e-04	-3.84e-05	0.0
238	72	-6.49e-04	-2.29e-03	-0.05	1.13e-04	-3.29e-05	0.0
239	2	-7.08e-04	-2.68e-03	-0.06	1.31e-04	-3.57e-05	0.0
239	11	-2.73e-03	-6.46e-04	-0.04	7.74e-05	-2.13e-05	0.0
239	30	3.87e-04	-4.19e-03	-0.04	8.71e-05	-2.15e-05	0.0
239	43	-4.09e-03	-5.90e-05	-0.04	7.54e-05	-2.10e-05	0.0
239	62	8.71e-04	-5.70e-03	-0.04	9.08e-05	-2.14e-05	0.0
239	70	-5.29e-04	-2.00e-03	-0.04	9.82e-05	-2.67e-05	0.0
239	72	-4.52e-04	-1.71e-03	-0.04	8.43e-05	-2.28e-05	0.0
240	2	-5.15e-04	-1.70e-03	-0.05	8.37e-05	-2.60e-05	0.0
240	10	1.96e-03	-2.02e-03	-0.04	5.35e-05	-1.63e-05	0.0
240	11	-2.58e-03	-7.41e-05	-0.04	4.94e-05	-1.53e-05	0.0
240	30	4.50e-04	-3.54e-03	-0.04	5.50e-05	-1.56e-05	0.0
240	42	3.30e-03	-2.59e-03	-0.04	5.47e-05	-1.66e-05	0.0
240	43	-3.92e-03	4.99e-04	-0.04	4.82e-05	-1.51e-05	0.0
240	62	9.00e-04	-5.01e-03	-0.04	5.71e-05	-1.55e-05	0.0
240	70	-3.85e-04	-1.27e-03	-0.04	6.25e-05	-1.94e-05	0.0
240	72	-3.28e-04	-1.09e-03	-0.04	5.37e-05	-1.65e-05	0.0
241	2	-4.17e-04	-7.04e-04	-0.05	3.46e-05	-2.11e-05	0.0
241	10	1.99e-03	-1.39e-03	-0.04	2.24e-05	-1.33e-05	0.0
241	11	-2.49e-03	5.24e-04	-0.04	2.01e-05	-1.22e-05	0.0
241	30	4.53e-04	-2.90e-03	-0.04	2.33e-05	-1.28e-05	0.0
241	42	3.31e-03	-1.95e-03	-0.04	2.31e-05	-1.36e-05	0.0
241	43	-3.81e-03	1.09e-03	-0.04	1.94e-05	-1.19e-05	0.0
241	62	8.69e-04	-4.35e-03	-0.04	2.45e-05	-1.28e-05	0.0
241	70	-3.11e-04	-5.25e-04	-0.04	2.58e-05	-1.57e-05	0.0
241	72	-2.64e-04	-4.51e-04	-0.04	2.22e-05	-1.34e-05	0.0
242	2	-4.01e-04	3.03e-04	-0.05	-1.48e-05	-2.02e-05	0.0
242	17	1.99e-03	1.14e-03	-0.04	-1.01e-05	-1.28e-05	0.0
242	20	-2.48e-03	-7.63e-04	-0.03	-8.20e-06	-1.17e-05	0.0
242	31	-8.90e-04	2.64e-03	-0.04	-1.07e-05	-1.20e-05	0.0
242	49	3.31e-03	1.70e-03	-0.04	-1.06e-05	-1.32e-05	0.0
242	52	-3.79e-03	-1.32e-03	-0.03	-7.65e-06	-1.14e-05	0.0
242	65	8.47e-04	4.09e-03	-0.04	-1.20e-05	-1.24e-05	0.0
242	70	-2.99e-04	2.26e-04	-0.04	-1.11e-05	-1.51e-05	0.0
242	72	-2.54e-04	1.94e-04	-0.04	-9.53e-06	-1.28e-05	0.0
243	2	-4.65e-04	1.31e-03	-0.05	-6.41e-05	-2.34e-05	0.0

243	17	1.98e-03	1.76e-03	-0.04	-4.11e-05	-1.48e-05	0.0
243	20	-2.55e-03	-1.59e-04	-0.04	-3.78e-05	-1.38e-05	0.0
243	33	4.61e-04	3.28e-03	-0.04	-4.23e-05	-1.41e-05	0.0
243	49	3.32e-03	2.33e-03	-0.04	-4.21e-05	-1.51e-05	0.0
243	52	-3.88e-03	-7.26e-04	-0.04	-3.68e-05	-1.35e-05	0.0
243	65	9.00e-04	4.74e-03	-0.04	-4.39e-05	-1.41e-05	0.0
243	70	-3.48e-04	9.75e-04	-0.04	-4.79e-05	-1.75e-05	0.0
243	72	-2.96e-04	8.37e-04	-0.04	-4.11e-05	-1.49e-05	0.0
244	2	-6.18e-04	2.29e-03	-0.05	-1.13e-04	-3.11e-05	0.0
244	17	1.92e-03	2.39e-03	-0.04	-7.21e-05	-1.95e-05	0.0
244	20	-2.67e-03	4.26e-04	-0.04	-6.64e-05	-1.85e-05	0.0
244	33	4.24e-04	3.93e-03	-0.04	-7.43e-05	-1.87e-05	0.0
244	49	3.27e-03	2.97e-03	-0.04	-7.38e-05	-1.98e-05	0.0
244	52	-4.02e-03	-1.53e-04	-0.04	-6.47e-05	-1.82e-05	0.0
244	65	8.96e-04	5.42e-03	-0.04	-7.72e-05	-1.85e-05	0.0
244	70	-4.62e-04	1.71e-03	-0.04	-8.41e-05	-2.33e-05	0.0
244	72	-3.94e-04	1.47e-03	-0.04	-7.22e-05	-1.98e-05	0.0
245	2	-8.76e-04	3.23e-03	-0.06	-1.59e-04	-4.43e-05	0.0
245	20	-2.86e-03	9.71e-04	-0.04	-9.30e-05	-2.65e-05	0.0
245	33	3.18e-04	4.58e-03	-0.04	-1.06e-04	-2.70e-05	0.0
245	52	-4.23e-03	3.75e-04	-0.04	-9.04e-05	-2.61e-05	0.0
245	65	8.22e-04	6.11e-03	-0.04	-1.11e-04	-2.69e-05	0.0
245	70	-6.55e-04	2.41e-03	-0.05	-1.19e-04	-3.31e-05	0.0
245	72	-5.61e-04	2.07e-03	-0.04	-1.02e-04	-2.83e-05	0.0
246	2	-1.26e-03	4.05e-03	-0.07	-1.99e-04	-6.43e-05	0.0
246	20	-3.12e-03	1.44e-03	-0.05	-1.16e-04	-3.82e-05	0.0
246	33	1.20e-04	5.17e-03	-0.05	-1.35e-04	-4.03e-05	0.0
246	52	-4.50e-03	8.21e-04	-0.05	-1.12e-04	-3.74e-05	0.0
246	65	6.48e-04	6.75e-03	-0.05	-1.43e-04	-4.08e-05	0.0
246	70	-9.44e-04	3.03e-03	-0.05	-1.49e-04	-4.81e-05	0.0
246	72	-8.09e-04	2.59e-03	-0.05	-1.28e-04	-4.12e-05	0.0
247	2	-1.78e-03	4.65e-03	-0.08	-2.29e-04	-9.15e-05	0.0
247	15	-3.45e-03	3.09e-03	-0.06	-1.40e-04	-5.49e-05	0.0
247	33	-1.80e-04	5.62e-03	-0.06	-1.58e-04	-5.94e-05	0.0
247	47	-4.84e-03	3.24e-03	-0.05	-1.40e-04	-5.42e-05	0.0
247	65	3.58e-04	7.26e-03	-0.06	-1.68e-04	-6.14e-05	0.0
247	70	-1.33e-03	3.47e-03	-0.06	-1.71e-04	-6.85e-05	0.0
247	72	-1.14e-03	2.97e-03	-0.06	-1.46e-04	-5.86e-05	0.0
248	2	-2.37e-03	4.92e-03	-0.09	-2.42e-04	-1.23e-04	0.0
248	15	-3.83e-03	3.26e-03	-0.06	-1.49e-04	-7.39e-05	0.0
248	33	-5.49e-04	5.85e-03	-0.07	-1.69e-04	-8.27e-05	0.0
248	47	-5.23e-03	3.42e-03	-0.06	-1.49e-04	-7.33e-05	0.0
248	65	-1.91e-05	7.54e-03	-0.07	-1.82e-04	-8.73e-05	0.0
248	70	-1.77e-03	3.67e-03	-0.07	-1.81e-04	-9.16e-05	0.0
248	72	-1.51e-03	3.14e-03	-0.06	-1.54e-04	-7.82e-05	0.0
249	2	-2.07e-03	-4.31e-03	-0.09	2.13e-04	-1.07e-04	0.0
249	8	-3.59e-03	-2.90e-03	-0.06	1.31e-04	-6.21e-05	0.0
249	30	-3.70e-04	-5.35e-03	-0.06	1.48e-04	-7.32e-05	0.0
249	40	-4.96e-03	-3.07e-03	-0.06	1.31e-04	-6.01e-05	0.0
249	62	1.56e-04	-6.95e-03	-0.06	1.58e-04	-7.78e-05	0.0
249	70	-1.55e-03	-3.21e-03	-0.06	1.59e-04	-8.03e-05	0.0
249	72	-1.32e-03	-2.75e-03	-0.06	1.36e-04	-6.85e-05	0.0
250	2	-1.79e-03	-4.20e-03	-0.08	2.08e-04	-9.26e-05	0.0
250	8	-3.41e-03	-2.84e-03	-0.06	1.28e-04	-5.34e-05	0.0
250	30	-2.02e-04	-5.26e-03	-0.06	1.43e-04	-6.21e-05	0.0
250	40	-4.78e-03	-3.00e-03	-0.05	1.28e-04	-5.15e-05	0.0
250	62	3.25e-04	-6.85e-03	-0.06	1.53e-04	-6.53e-05	0.0
250	70	-1.34e-03	-3.13e-03	-0.06	1.55e-04	-6.93e-05	0.0
250	72	-1.14e-03	-2.68e-03	-0.06	1.33e-04	-5.91e-05	0.0
251	2	-1.35e-03	-3.81e-03	-0.07	1.89e-04	-6.93e-05	0.0
251	11	-3.13e-03	-1.32e-03	-0.05	1.10e-04	-3.88e-05	0.0
251	30	5.51e-05	-4.97e-03	-0.05	1.29e-04	-4.52e-05	0.0
251	43	-4.49e-03	-7.23e-04	-0.05	1.06e-04	-3.66e-05	0.0
251	62	5.75e-04	-6.52e-03	-0.05	1.36e-04	-4.68e-05	0.0
251	70	-1.01e-03	-2.84e-03	-0.05	1.41e-04	-5.18e-05	0.0
251	72	-8.62e-04	-2.43e-03	-0.05	1.21e-04	-4.42e-05	0.0
252	2	-9.83e-04	-3.19e-03	-0.06	1.58e-04	-5.01e-05	0.0
252	11	-2.90e-03	-9.67e-04	-0.04	9.23e-05	-2.82e-05	0.0
252	30	2.52e-04	-4.52e-03	-0.04	1.06e-04	-3.17e-05	0.0
252	43	-4.25e-03	-3.85e-04	-0.04	8.97e-05	-2.68e-05	0.0
252	62	7.55e-04	-6.03e-03	-0.05	1.12e-04	-3.24e-05	0.0
252	70	-7.35e-04	-2.38e-03	-0.05	1.18e-04	-3.74e-05	0.0
252	72	-6.27e-04	-2.04e-03	-0.04	1.01e-04	-3.20e-05	0.0
253	2	-7.10e-04	-2.41e-03	-0.05	1.19e-04	-3.60e-05	0.0
253	11	-2.71e-03	-5.18e-04	-0.04	7.02e-05	-2.03e-05	0.0
253	30	3.77e-04	-3.98e-03	-0.04	7.94e-05	-2.23e-05	0.0

253	43	-4.06e-03	4.94e-05	-0.04	6.83e-05	-1.94e-05	0.0
253	62	8.55e-04	-5.45e-03	-0.04	8.30e-05	-2.25e-05	0.0
253	70	-5.31e-04	-1.80e-03	-0.04	8.91e-05	-2.69e-05	0.0
253	72	-4.53e-04	-1.54e-03	-0.04	7.64e-05	-2.30e-05	0.0
254	2	-5.31e-04	-1.55e-03	-0.05	7.65e-05	-2.69e-05	0.0
254	10	1.93e-03	-1.89e-03	-0.04	4.90e-05	-1.77e-05	0.0
254	11	-2.58e-03	-8.91e-06	-0.04	4.51e-05	-1.51e-05	0.0
254	30	4.35e-04	-3.40e-03	-0.04	5.07e-05	-1.65e-05	0.0
254	42	3.26e-03	-2.45e-03	-0.04	5.02e-05	-1.84e-05	0.0
254	43	-3.91e-03	5.46e-04	-0.04	4.40e-05	-1.44e-05	0.0
254	62	8.82e-04	-4.84e-03	-0.04	5.28e-05	-1.66e-05	0.0
254	70	-3.97e-04	-1.16e-03	-0.04	5.71e-05	-2.01e-05	0.0
254	72	-3.38e-04	-9.91e-04	-0.04	4.91e-05	-1.71e-05	0.0
255	2	-4.38e-04	-6.42e-04	-0.05	3.18e-05	-2.22e-05	0.0
255	10	1.96e-03	-1.32e-03	-0.04	2.07e-05	-1.46e-05	0.0
255	11	-2.49e-03	5.33e-04	-0.03	1.84e-05	-1.24e-05	0.0
255	30	4.37e-04	-2.82e-03	-0.03	2.18e-05	-1.37e-05	0.0
255	42	3.28e-03	-1.87e-03	-0.04	2.13e-05	-1.52e-05	0.0
255	43	-3.81e-03	1.08e-03	-0.03	1.77e-05	-1.17e-05	0.0
255	62	8.51e-04	-4.24e-03	-0.04	2.31e-05	-1.38e-05	0.0
255	70	-3.27e-04	-4.79e-04	-0.04	2.37e-05	-1.66e-05	0.0
255	72	-2.78e-04	-4.11e-04	-0.03	2.04e-05	-1.41e-05	0.0
256	2	-4.23e-04	2.77e-04	-0.05	-1.37e-05	-2.14e-05	0.0
256	17	1.97e-03	1.09e-03	-0.03	-9.35e-06	-1.41e-05	0.0
256	20	-2.48e-03	-7.51e-04	-0.03	-7.47e-06	-1.19e-05	0.0
256	31	-9.01e-04	2.59e-03	-0.03	-1.02e-05	-1.26e-05	0.0
256	49	3.28e-03	1.63e-03	-0.03	-9.91e-06	-1.47e-05	0.0
256	52	-3.79e-03	-1.29e-03	-0.03	-6.91e-06	-1.13e-05	0.0
256	63	-1.28e-03	4.01e-03	-0.03	-1.12e-05	-1.24e-05	0.0
256	70	-3.16e-04	2.07e-04	-0.03	-1.02e-05	-1.60e-05	0.0
256	72	-2.68e-04	1.78e-04	-0.03	-8.77e-06	-1.36e-05	0.0
257	2	-4.84e-04	1.19e-03	-0.05	-5.88e-05	-2.45e-05	0.0
257	17	1.96e-03	1.66e-03	-0.04	-3.78e-05	-1.61e-05	0.0
257	20	-2.54e-03	-2.00e-04	-0.04	-3.46e-05	-1.37e-05	0.0
257	33	4.45e-04	3.17e-03	-0.04	-3.91e-05	-1.51e-05	0.0
257	49	3.28e-03	2.21e-03	-0.04	-3.87e-05	-1.68e-05	0.0
257	52	-3.87e-03	-7.50e-04	-0.04	-3.36e-05	-1.30e-05	0.0
257	65	8.81e-04	4.60e-03	-0.04	-4.08e-05	-1.52e-05	0.0
257	70	-3.62e-04	8.89e-04	-0.04	-4.39e-05	-1.83e-05	0.0
257	72	-3.08e-04	7.63e-04	-0.04	-3.77e-05	-1.56e-05	0.0
258	2	-6.28e-04	2.07e-03	-0.05	-1.03e-04	-3.18e-05	0.0
258	20	-2.66e-03	3.24e-04	-0.04	-6.04e-05	-1.79e-05	0.0
258	33	4.10e-04	3.75e-03	-0.04	-6.80e-05	-1.96e-05	0.0
258	52	-4.00e-03	-2.36e-04	-0.04	-5.89e-05	-1.70e-05	0.0
258	65	8.78e-04	5.21e-03	-0.04	-7.09e-05	-1.97e-05	0.0
258	70	-4.70e-04	1.55e-03	-0.04	-7.66e-05	-2.38e-05	0.0
258	72	-4.00e-04	1.33e-03	-0.04	-6.57e-05	-2.03e-05	0.0
259	2	-8.64e-04	2.89e-03	-0.06	-1.43e-04	-4.39e-05	0.0
259	20	-2.82e-03	8.00e-04	-0.04	-8.39e-05	-2.48e-05	0.0
259	33	3.12e-04	4.31e-03	-0.04	-9.58e-05	-2.72e-05	0.0
259	52	-4.18e-03	2.27e-04	-0.04	-8.16e-05	-2.36e-05	0.0
259	65	8.08e-04	5.80e-03	-0.04	-1.01e-04	-2.75e-05	0.0
259	70	-6.46e-04	2.16e-03	-0.04	-1.07e-04	-3.28e-05	0.0
259	72	-5.51e-04	1.85e-03	-0.04	-9.16e-05	-2.80e-05	0.0
260	2	-1.20e-03	3.58e-03	-0.07	-1.77e-04	-6.11e-05	0.0
260	20	-3.04e-03	1.20e-03	-0.05	-1.03e-04	-3.43e-05	0.0
260	33	1.42e-04	4.80e-03	-0.05	-1.20e-04	-3.94e-05	0.0
260	52	-4.40e-03	6.08e-04	-0.05	-1.00e-04	-3.24e-05	0.0
260	65	6.58e-04	6.33e-03	-0.05	-1.27e-04	-4.06e-05	0.0
260	70	-8.95e-04	2.67e-03	-0.05	-1.32e-04	-4.57e-05	0.0
260	72	-7.64e-04	2.29e-03	-0.05	-1.13e-04	-3.90e-05	0.0
261	2	-1.62e-03	4.06e-03	-0.08	-2.01e-04	-8.30e-05	0.0
261	15	-3.30e-03	2.76e-03	-0.05	-1.24e-04	-4.78e-05	0.0
261	33	-9.49e-05	5.16e-03	-0.05	-1.38e-04	-5.50e-05	0.0
261	47	-4.67e-03	2.93e-03	-0.05	-1.24e-04	-4.60e-05	0.0
261	65	4.32e-04	6.73e-03	-0.06	-1.47e-04	-5.76e-05	0.0
261	70	-1.21e-03	3.03e-03	-0.06	-1.50e-04	-6.21e-05	0.0
261	72	-1.03e-03	2.60e-03	-0.05	-1.29e-04	-5.30e-05	0.0
262	2	-2.08e-03	4.29e-03	-0.09	-2.12e-04	-1.07e-04	0.0
262	15	-3.60e-03	2.90e-03	-0.06	-1.30e-04	-6.22e-05	0.0
262	33	-3.75e-04	5.33e-03	-0.06	-1.47e-04	-7.33e-05	0.0
262	47	-4.97e-03	3.07e-03	-0.06	-1.31e-04	-6.02e-05	0.0
262	65	1.53e-04	6.93e-03	-0.06	-1.57e-04	-7.79e-05	0.0
262	70	-1.55e-03	3.20e-03	-0.06	-1.58e-04	-8.03e-05	0.0
262	72	-1.33e-03	2.73e-03	-0.06	-1.35e-04	-6.85e-05	0.0
263	2	-1.47e-03	-3.84e-03	-0.08	1.91e-04	-7.67e-05	0.0

263	8	-3.18e-03	-2.66e-03	-0.06	1.18e-04	-4.16e-05	0.0
263	30	1.34e-05	-4.96e-03	-0.06	1.31e-04	-5.32e-05	0.0
263	40	-4.53e-03	-2.84e-03	-0.06	1.19e-04	-3.87e-05	0.0
263	62	5.48e-04	-6.50e-03	-0.06	1.40e-04	-5.71e-05	0.0
263	70	-1.10e-03	-2.87e-03	-0.06	1.43e-04	-5.73e-05	0.0
263	72	-9.34e-04	-2.45e-03	-0.06	1.22e-04	-4.87e-05	0.0
264	2	-1.29e-03	-3.76e-03	-0.08	1.87e-04	-6.69e-05	0.0
264	11	-3.07e-03	-1.33e-03	-0.05	1.10e-04	-3.46e-05	0.0
264	30	1.17e-04	-4.89e-03	-0.05	1.28e-04	-4.57e-05	0.0
264	43	-4.42e-03	-7.53e-04	-0.05	1.06e-04	-3.10e-05	0.0
264	62	6.46e-04	-6.42e-03	-0.06	1.36e-04	-4.87e-05	0.0
264	70	-9.61e-04	-2.80e-03	-0.06	1.40e-04	-5.00e-05	0.0
264	72	-8.18e-04	-2.40e-03	-0.05	1.20e-04	-4.25e-05	0.0
265	2	-9.94e-04	-3.42e-03	-0.07	1.71e-04	-5.15e-05	0.0
265	11	-2.89e-03	-1.14e-03	-0.05	1.00e-04	-2.67e-05	0.0
265	30	2.72e-04	-4.65e-03	-0.05	1.16e-04	-3.44e-05	0.0
265	43	-4.24e-03	-5.73e-04	-0.05	9.75e-05	-2.40e-05	0.0
265	62	7.88e-04	-6.15e-03	-0.05	1.22e-04	-3.62e-05	0.0
265	70	-7.43e-04	-2.55e-03	-0.05	1.27e-04	-3.85e-05	0.0
265	72	-6.32e-04	-2.19e-03	-0.05	1.09e-04	-3.27e-05	0.0
266	2	-7.46e-04	-2.88e-03	-0.06	1.44e-04	-3.85e-05	0.0
266	11	-2.73e-03	-8.27e-04	-0.04	8.47e-05	-2.00e-05	0.0
266	30	3.91e-04	-4.26e-03	-0.04	9.65e-05	-2.51e-05	0.0
266	43	-4.07e-03	-2.72e-04	-0.04	8.26e-05	-1.80e-05	0.0
266	62	8.89e-04	-5.73e-03	-0.04	1.01e-04	-2.61e-05	0.0
266	70	-5.57e-04	-2.15e-03	-0.04	1.07e-04	-2.87e-05	0.0
266	72	-4.74e-04	-1.84e-03	-0.04	9.19e-05	-2.44e-05	0.0
267	2	-5.55e-04	-2.20e-03	-0.05	1.09e-04	-2.86e-05	0.0
267	11	-2.60e-03	-4.25e-04	-0.04	6.47e-05	-1.50e-05	0.0
267	30	4.66e-04	-3.79e-03	-0.04	7.28e-05	-1.79e-05	0.0
267	43	-3.94e-03	1.19e-04	-0.04	6.32e-05	-1.36e-05	0.0
267	62	9.39e-04	-5.23e-03	-0.04	7.61e-05	-1.82e-05	0.0
267	70	-4.15e-04	-1.64e-03	-0.04	8.16e-05	-2.14e-05	0.0
267	72	-3.52e-04	-1.41e-03	-0.04	7.01e-05	-1.81e-05	0.0
268	2	-4.26e-04	-1.42e-03	-0.05	7.05e-05	-2.20e-05	0.0
268	11	-2.50e-03	3.67e-05	-0.04	4.18e-05	-1.14e-05	0.0
268	30	4.96e-04	-3.27e-03	-0.04	4.69e-05	-1.38e-05	0.0
268	43	-3.83e-03	5.72e-04	-0.04	4.08e-05	-1.03e-05	0.0
268	62	9.40e-04	-4.69e-03	-0.04	4.90e-05	-1.40e-05	0.0
268	70	-3.18e-04	-1.06e-03	-0.04	5.27e-05	-1.64e-05	0.0
268	72	-2.70e-04	-9.08e-04	-0.04	4.52e-05	-1.39e-05	0.0
269	2	-3.58e-04	-5.90e-04	-0.04	2.94e-05	-1.85e-05	0.0
269	10	2.01e-03	-1.26e-03	-0.03	1.91e-05	-1.27e-05	0.0
269	11	-2.44e-03	5.35e-04	-0.03	1.71e-05	-9.61e-06	0.0
269	30	4.84e-04	-2.74e-03	-0.03	2.03e-05	-1.16e-05	0.0
269	42	3.32e-03	-1.79e-03	-0.03	1.96e-05	-1.36e-05	0.0
269	43	-3.75e-03	1.06e-03	-0.03	1.65e-05	-8.69e-06	0.0
269	62	8.96e-04	-4.14e-03	-0.03	2.17e-05	-1.18e-05	0.0
269	70	-2.67e-04	-4.40e-04	-0.03	2.19e-05	-1.38e-05	0.0
269	72	-2.26e-04	-3.78e-04	-0.03	1.88e-05	-1.17e-05	0.0
270	2	-3.47e-04	2.56e-04	-0.04	-1.27e-05	-1.79e-05	0.0
270	17	2.01e-03	1.05e-03	-0.03	-8.63e-06	-1.23e-05	0.0
270	20	-2.43e-03	-7.34e-04	-0.03	-6.94e-06	-9.31e-06	0.0
270	31	-8.52e-04	2.53e-03	-0.03	-9.73e-06	-1.03e-05	0.0
270	49	3.32e-03	1.57e-03	-0.03	-9.13e-06	-1.32e-05	0.0
270	52	-3.73e-03	-1.26e-03	-0.03	-6.45e-06	-8.42e-06	0.0
270	63	-1.23e-03	3.93e-03	-0.03	-1.09e-05	-1.01e-05	0.0
270	70	-2.59e-04	1.91e-04	-0.03	-9.45e-06	-1.34e-05	0.0
270	72	-2.19e-04	1.64e-04	-0.03	-8.12e-06	-1.13e-05	0.0
271	2	-3.93e-04	1.09e-03	-0.05	-5.43e-05	-2.02e-05	0.0
271	17	2.00e-03	1.57e-03	-0.04	-3.47e-05	-1.40e-05	0.0
271	20	-2.48e-03	-2.28e-04	-0.03	-3.21e-05	-1.05e-05	0.0
271	33	4.98e-04	3.06e-03	-0.04	-3.63e-05	-1.26e-05	0.0
271	49	3.33e-03	2.10e-03	-0.04	-3.55e-05	-1.50e-05	0.0
271	52	-3.80e-03	-7.58e-04	-0.03	-3.13e-05	-9.47e-06	0.0
271	65	9.32e-04	4.47e-03	-0.04	-3.80e-05	-1.29e-05	0.0
271	70	-2.93e-04	8.16e-04	-0.04	-4.05e-05	-1.51e-05	0.0
271	72	-2.48e-04	7.01e-04	-0.04	-3.48e-05	-1.28e-05	0.0
272	2	-4.98e-04	1.90e-03	-0.05	-9.42e-05	-2.56e-05	0.0
272	20	-2.56e-03	2.51e-04	-0.04	-5.58e-05	-1.33e-05	0.0
272	33	4.85e-04	3.59e-03	-0.04	-6.26e-05	-1.61e-05	0.0
272	52	-3.90e-03	-2.88e-04	-0.04	-5.45e-05	-1.20e-05	0.0
272	65	9.49e-04	5.02e-03	-0.04	-6.53e-05	-1.64e-05	0.0
272	70	-3.72e-04	1.41e-03	-0.04	-7.03e-05	-1.91e-05	0.0
272	72	-3.15e-04	1.21e-03	-0.04	-6.04e-05	-1.62e-05	0.0
273	2	-6.65e-04	2.62e-03	-0.06	-1.30e-04	-3.42e-05	0.0

273	20	-2.68e-03	6.79e-04	-0.04	-7.70e-05	-1.77e-05	0.0
273	33	4.28e-04	4.08e-03	-0.04	-8.73e-05	-2.21e-05	0.0
273	52	-4.02e-03	1.31e-04	-0.04	-7.52e-05	-1.60e-05	0.0
273	65	9.18e-04	5.54e-03	-0.04	-9.15e-05	-2.28e-05	0.0
273	70	-4.97e-04	1.96e-03	-0.04	-9.74e-05	-2.55e-05	0.0
273	72	-4.22e-04	1.68e-03	-0.04	-8.36e-05	-2.17e-05	0.0
274	2	-8.93e-04	3.23e-03	-0.06	-1.61e-04	-4.60e-05	0.0
274	20	-2.83e-03	1.03e-03	-0.04	-9.44e-05	-2.39e-05	0.0
274	33	3.24e-04	4.50e-03	-0.05	-1.08e-04	-3.04e-05	0.0
274	52	-4.18e-03	4.70e-04	-0.04	-9.21e-05	-2.15e-05	0.0
274	65	8.35e-04	5.99e-03	-0.05	-1.14e-04	-3.19e-05	0.0
274	70	-6.67e-04	2.41e-03	-0.05	-1.20e-04	-3.44e-05	0.0
274	72	-5.68e-04	2.06e-03	-0.05	-1.03e-04	-2.92e-05	0.0
275	2	-1.17e-03	3.65e-03	-0.07	-1.81e-04	-6.06e-05	0.0
275	20	-3.00e-03	1.27e-03	-0.05	-1.06e-04	-3.14e-05	0.0
275	33	1.81e-04	4.81e-03	-0.05	-1.24e-04	-4.10e-05	0.0
275	52	-4.35e-03	7.00e-04	-0.05	-1.04e-04	-2.82e-05	0.0
275	65	7.07e-04	6.33e-03	-0.05	-1.31e-04	-4.35e-05	0.0
275	70	-8.76e-04	2.72e-03	-0.05	-1.35e-04	-4.53e-05	0.0
275	72	-7.45e-04	2.33e-03	-0.05	-1.16e-04	-3.85e-05	0.0
276	2	-1.48e-03	3.83e-03	-0.08	-1.90e-04	-7.67e-05	0.0
276	15	-3.19e-03	2.66e-03	-0.06	-1.18e-04	-4.17e-05	0.0
276	33	1.05e-05	4.95e-03	-0.06	-1.31e-04	-5.32e-05	0.0
276	47	-4.54e-03	2.84e-03	-0.06	-1.19e-04	-3.89e-05	0.0
276	65	5.46e-04	6.48e-03	-0.06	-1.39e-04	-5.71e-05	0.0
276	70	-1.10e-03	2.86e-03	-0.06	-1.42e-04	-5.73e-05	0.0
276	72	-9.39e-04	2.44e-03	-0.06	-1.22e-04	-4.87e-05	0.0
277	2	-7.04e-04	-3.58e-03	-0.08	1.79e-04	-3.76e-05	0.0
277	11	-2.70e-03	-1.27e-03	-0.05	1.06e-04	-1.53e-05	0.0
277	30	5.12e-04	-4.72e-03	-0.06	1.22e-04	-2.75e-05	0.0
277	34	4.78e-04	-4.61e-03	-0.06	1.22e-04	-2.69e-05	0.0
277	43	-4.04e-03	-7.23e-04	-0.05	1.04e-04	-1.10e-05	0.0
277	62	1.06e-03	-6.21e-03	-0.06	1.29e-04	-3.05e-05	0.0
277	66	1.01e-03	-6.03e-03	-0.06	1.29e-04	-2.96e-05	0.0
277	70	-5.25e-04	-2.67e-03	-0.06	1.34e-04	-2.80e-05	0.0
277	72	-4.40e-04	-2.29e-03	-0.06	1.14e-04	-2.35e-05	0.0
278	2	-6.23e-04	-3.51e-03	-0.07	1.75e-04	-3.33e-05	0.0
278	11	-2.65e-03	-1.23e-03	-0.05	1.04e-04	-1.36e-05	0.0
278	30	5.44e-04	-4.66e-03	-0.05	1.19e-04	-2.40e-05	0.0
278	43	-4.00e-03	-6.86e-04	-0.05	1.02e-04	-9.95e-06	0.0
278	62	1.08e-03	-6.14e-03	-0.05	1.26e-04	-2.64e-05	0.0
278	70	-4.64e-04	-2.62e-03	-0.06	1.31e-04	-2.48e-05	0.0
278	72	-3.90e-04	-2.24e-03	-0.05	1.12e-04	-2.08e-05	0.0
279	2	-4.94e-04	-3.20e-03	-0.06	1.60e-04	-2.64e-05	0.0
279	11	-2.57e-03	-1.05e-03	-0.05	9.51e-05	-1.09e-05	0.0
279	30	5.88e-04	-4.44e-03	-0.05	1.08e-04	-1.86e-05	0.0
279	43	-3.92e-03	-5.17e-04	-0.05	9.33e-05	-7.96e-06	0.0
279	62	1.11e-03	-5.90e-03	-0.05	1.14e-04	-2.02e-05	0.0
279	70	-3.68e-04	-2.39e-03	-0.05	1.20e-04	-1.97e-05	0.0
279	72	-3.09e-04	-2.05e-03	-0.05	1.03e-04	-1.65e-05	0.0
280	2	-3.83e-04	-2.70e-03	-0.06	1.35e-04	-2.06e-05	0.0
280	11	-2.50e-03	-7.63e-04	-0.04	8.06e-05	-8.49e-06	0.0
280	30	6.16e-04	-4.09e-03	-0.04	9.04e-05	-1.41e-05	0.0
280	43	-3.84e-03	-2.34e-04	-0.04	7.91e-05	-6.28e-06	0.0
280	62	1.11e-03	-5.53e-03	-0.04	9.48e-05	-1.51e-05	0.0
280	70	-2.86e-04	-2.02e-03	-0.04	1.01e-04	-1.54e-05	0.0
280	72	-2.39e-04	-1.73e-03	-0.04	8.66e-05	-1.29e-05	0.0
281	2	-2.97e-04	-2.07e-03	-0.05	1.03e-04	-1.60e-05	0.0
281	11	-2.43e-03	-3.86e-04	-0.04	6.17e-05	-6.68e-06	0.0
281	30	6.24e-04	-3.66e-03	-0.04	6.86e-05	-1.07e-05	0.0
281	43	-3.76e-03	1.35e-04	-0.04	6.07e-05	-5.00e-06	0.0
281	62	1.10e-03	-5.07e-03	-0.04	7.16e-05	-1.13e-05	0.0
281	70	-2.21e-04	-1.54e-03	-0.04	7.71e-05	-1.20e-05	0.0
281	72	-1.85e-04	-1.32e-03	-0.04	6.62e-05	-1.00e-05	0.0
282	2	-2.37e-04	-1.34e-03	-0.05	6.68e-05	-1.29e-05	0.0
282	11	-2.38e-03	5.03e-05	-0.04	4.00e-05	-5.53e-06	0.0
282	30	6.11e-04	-3.17e-03	-0.04	4.44e-05	-8.17e-06	0.0
282	43	-3.70e-03	5.65e-04	-0.04	3.93e-05	-4.28e-06	0.0
282	62	1.05e-03	-4.56e-03	-0.04	4.63e-05	-8.48e-06	0.0
282	70	-1.77e-04	-9.98e-04	-0.04	4.99e-05	-9.63e-06	0.0
282	72	-1.47e-04	-8.57e-04	-0.04	4.28e-05	-8.03e-06	0.0
283	2	-2.05e-04	-5.57e-04	-0.04	2.79e-05	-1.13e-05	0.0
283	11	-2.34e-03	5.23e-04	-0.03	1.64e-05	-4.86e-06	0.0
283	30	5.77e-04	-2.67e-03	-0.03	1.94e-05	-7.12e-06	0.0
283	43	-3.65e-03	1.03e-03	-0.03	1.60e-05	-3.83e-06	0.0
283	62	9.89e-04	-4.05e-03	-0.03	2.07e-05	-7.42e-06	0.0

283	70	-1.53e-04	-4.16e-04	-0.03	2.08e-05	-8.38e-06	0.0
283	72	-1.27e-04	-3.57e-04	-0.03	1.79e-05	-6.97e-06	0.0
284	2	-2.00e-04	2.42e-04	-0.04	-1.20e-05	-1.10e-05	0.0
284	17	2.10e-03	1.01e-03	-0.03	-8.06e-06	-8.14e-06	0.0
284	20	-2.33e-03	-7.12e-04	-0.03	-6.73e-06	-4.77e-06	0.0
284	31	-7.60e-04	2.48e-03	-0.03	-9.41e-06	-5.96e-06	0.0
284	49	3.40e-03	1.52e-03	-0.03	-8.45e-06	-9.14e-06	0.0
284	52	-3.64e-03	-1.22e-03	-0.03	-6.34e-06	-3.77e-06	0.0
284	63	-1.14e-03	3.85e-03	-0.03	-1.06e-05	-5.67e-06	0.0
284	70	-1.49e-04	1.81e-04	-0.03	-8.97e-06	-8.17e-06	0.0
284	72	-1.23e-04	1.56e-04	-0.03	-7.71e-06	-6.80e-06	0.0
285	2	-2.22e-04	1.03e-03	-0.05	-5.15e-05	-1.21e-05	0.0
285	20	-2.37e-03	-2.31e-04	-0.03	-3.07e-05	-5.16e-06	0.0
285	31	-7.18e-04	2.98e-03	-0.03	-3.44e-05	-6.56e-06	0.0
285	33	6.02e-04	2.98e-03	-0.03	-3.44e-05	-7.66e-06	0.0
285	52	-3.69e-03	-7.42e-04	-0.03	-3.02e-05	-4.00e-06	0.0
285	63	-1.07e-03	4.36e-03	-0.03	-3.60e-05	-6.23e-06	0.0
285	65	1.03e-03	4.36e-03	-0.03	-3.61e-05	-7.97e-06	0.0
285	70	-1.66e-04	7.71e-04	-0.03	-3.84e-05	-9.01e-06	0.0
285	72	-1.38e-04	6.63e-04	-0.03	-3.30e-05	-7.50e-06	0.0
286	2	-2.72e-04	1.79e-03	-0.05	-8.90e-05	-1.46e-05	0.0
286	20	-2.42e-03	2.22e-04	-0.04	-5.33e-05	-6.23e-06	0.0
286	33	6.22e-04	3.47e-03	-0.04	-5.91e-05	-9.19e-06	0.0
286	52	-3.75e-03	-2.94e-04	-0.04	-5.24e-05	-4.79e-06	0.0
286	65	1.08e-03	4.87e-03	-0.04	-6.16e-05	-9.50e-06	0.0
286	70	-2.03e-04	1.33e-03	-0.04	-6.65e-05	-1.09e-05	0.0
286	72	-1.69e-04	1.14e-03	-0.04	-5.71e-05	-9.11e-06	0.0
287	2	-3.49e-04	2.46e-03	-0.05	-1.23e-04	-1.86e-05	0.0
287	20	-2.48e-03	6.25e-04	-0.04	-7.34e-05	-7.69e-06	0.0
287	33	6.22e-04	3.93e-03	-0.04	-8.20e-05	-1.26e-05	0.0
287	52	-3.82e-03	1.01e-04	-0.04	-7.21e-05	-5.70e-06	0.0
287	65	1.11e-03	5.35e-03	-0.04	-8.58e-05	-1.35e-05	0.0
287	70	-2.60e-04	1.84e-03	-0.04	-9.17e-05	-1.39e-05	0.0
287	72	-2.18e-04	1.58e-03	-0.04	-7.88e-05	-1.16e-05	0.0
288	2	-4.52e-04	3.02e-03	-0.06	-1.51e-04	-2.40e-05	0.0
288	20	-2.55e-03	9.52e-04	-0.04	-8.97e-05	-9.86e-06	0.0
288	33	6.01e-04	4.31e-03	-0.05	-1.01e-04	-1.67e-05	0.0
288	52	-3.89e-03	4.20e-04	-0.04	-8.80e-05	-7.26e-06	0.0
288	65	1.11e-03	5.76e-03	-0.05	-1.07e-04	-1.81e-05	0.0
288	70	-3.37e-04	2.26e-03	-0.05	-1.13e-04	-1.79e-05	0.0
288	72	-2.82e-04	1.93e-03	-0.04	-9.66e-05	-1.50e-05	0.0
289	2	-5.76e-04	3.41e-03	-0.07	-1.70e-04	-3.05e-05	0.0
289	20	-2.63e-03	1.18e-03	-0.05	-1.01e-04	-1.25e-05	0.0
289	33	5.62e-04	4.59e-03	-0.05	-1.15e-04	-2.17e-05	0.0
289	52	-3.97e-03	6.36e-04	-0.05	-9.88e-05	-9.21e-06	0.0
289	65	1.10e-03	6.06e-03	-0.05	-1.22e-04	-2.38e-05	0.0
289	70	-4.29e-04	2.54e-03	-0.05	-1.27e-04	-2.27e-05	0.0
289	72	-3.60e-04	2.18e-03	-0.05	-1.09e-04	-1.91e-05	0.0
290	2	-7.11e-04	3.57e-03	-0.08	-1.78e-04	-3.76e-05	0.0
290	20	-2.71e-03	1.26e-03	-0.05	-1.05e-04	-1.53e-05	0.0
290	29	4.73e-04	4.60e-03	-0.06	-1.21e-04	-2.69e-05	0.0
290	33	5.10e-04	4.71e-03	-0.06	-1.21e-04	-2.74e-05	0.0
290	52	-4.05e-03	7.22e-04	-0.05	-1.03e-04	-1.12e-05	0.0
290	61	1.00e-03	6.02e-03	-0.06	-1.28e-04	-2.95e-05	0.0
290	65	1.06e-03	6.20e-03	-0.06	-1.28e-04	-3.04e-05	0.0
290	70	-5.30e-04	2.66e-03	-0.06	-1.33e-04	-2.80e-05	0.0
290	72	-4.45e-04	2.28e-03	-0.06	-1.14e-04	-2.35e-05	0.0
291	2	1.20e-04	-3.53e-03	-0.08	1.76e-04	4.36e-06	0.0
291	10	2.38e-03	-3.04e-03	-0.05	1.11e-04	-2.07e-06	0.0
291	32	-2.66e-04	-4.53e-03	-0.06	1.20e-04	7.17e-06	0.0
291	36	-2.32e-04	-4.63e-03	-0.06	1.20e-04	6.59e-06	0.0
291	42	3.73e-03	-3.56e-03	-0.05	1.12e-04	-5.35e-06	0.0
291	64	-4.76e-04	-5.93e-03	-0.06	1.27e-04	9.34e-06	0.0
291	68	-4.22e-04	-6.09e-03	-0.06	1.27e-04	8.42e-06	0.0
291	70	9.16e-05	-2.63e-03	-0.06	1.32e-04	3.37e-06	0.0
291	72	8.99e-05	-2.26e-03	-0.05	1.13e-04	3.46e-06	0.0
292	2	9.66e-05	-3.46e-03	-0.07	1.73e-04	3.16e-06	0.0
292	10	2.36e-03	-2.99e-03	-0.05	1.09e-04	-2.26e-06	0.0
292	32	-3.11e-04	-4.48e-03	-0.05	1.17e-04	5.82e-06	0.0
292	36	-2.80e-04	-4.58e-03	-0.05	1.17e-04	5.32e-06	0.0
292	42	3.71e-03	-3.51e-03	-0.05	1.10e-04	-5.17e-06	0.0
292	64	-5.38e-04	-5.87e-03	-0.05	1.24e-04	7.68e-06	0.0
292	68	-4.89e-04	-6.03e-03	-0.05	1.24e-04	6.87e-06	0.0
292	70	7.41e-05	-2.58e-03	-0.05	1.29e-04	2.46e-06	0.0
292	72	7.40e-05	-2.21e-03	-0.05	1.11e-04	2.64e-06	0.0
293	1	6.37e-05	-2.53e-03	-0.06	1.27e-04	1.86e-06	0.0

293	2	5.88e-05	-3.15e-03	-0.06	1.58e-04	1.27e-06	0.0
293	10	2.33e-03	-2.80e-03	-0.05	9.90e-05	-2.63e-06	0.0
293	32	-3.85e-04	-4.26e-03	-0.05	1.06e-04	3.80e-06	0.0
293	36	-3.59e-04	-4.36e-03	-0.05	1.06e-04	3.40e-06	0.0
293	42	3.68e-03	-3.31e-03	-0.05	1.00e-04	-5.02e-06	0.0
293	64	-6.41e-04	-5.64e-03	-0.05	1.12e-04	5.20e-06	0.0
293	68	-6.00e-04	-5.79e-03	-0.05	1.12e-04	4.57e-06	0.0
293	69	4.89e-05	-1.94e-03	-0.05	9.69e-05	1.42e-06	0.0
293	70	4.56e-05	-2.35e-03	-0.05	1.18e-04	1.03e-06	0.0
293	71	4.89e-05	-1.94e-03	-0.05	9.69e-05	1.42e-06	0.0
293	72	4.82e-05	-2.02e-03	-0.05	1.01e-04	1.35e-06	0.0
294	1	3.59e-05	-2.14e-03	-0.05	1.07e-04	0.0	0.0
294	2	2.69e-05	-2.66e-03	-0.06	1.33e-04	0.0	0.0
294	10	2.30e-03	-2.49e-03	-0.04	8.34e-05	-3.26e-06	0.0
294	32	-4.56e-04	-3.92e-03	-0.04	8.91e-05	0.0	0.0
294	36	-4.35e-04	-4.02e-03	-0.04	8.90e-05	0.0	0.0
294	42	3.64e-03	-3.00e-03	-0.04	8.42e-05	-5.41e-06	0.0
294	64	-7.41e-04	-5.27e-03	-0.04	9.34e-05	0.0	0.0
294	68	-7.07e-04	-5.42e-03	-0.04	9.32e-05	0.0	0.0
294	69	2.74e-05	-1.64e-03	-0.04	8.19e-05	0.0	0.0
294	70	2.15e-05	-1.99e-03	-0.04	9.94e-05	0.0	0.0
294	71	2.74e-05	-1.64e-03	-0.04	8.19e-05	0.0	0.0
294	72	2.62e-05	-1.71e-03	-0.04	8.54e-05	0.0	0.0
295	1	1.51e-05	-1.63e-03	-0.05	8.17e-05	0.0	0.0
295	2	3.58e-06	-2.04e-03	-0.05	1.02e-04	-1.38e-06	0.0
295	10	2.27e-03	-2.10e-03	-0.04	6.36e-05	-3.15e-06	0.0
295	32	-5.20e-04	-3.49e-03	-0.04	6.76e-05	0.0	0.0
295	36	-5.05e-04	-3.59e-03	-0.04	6.75e-05	0.0	0.0
295	42	3.60e-03	-2.59e-03	-0.04	6.41e-05	-4.79e-06	0.0
295	64	-8.34e-04	-4.81e-03	-0.04	7.06e-05	0.0	0.0
295	68	-8.10e-04	-4.97e-03	-0.04	7.05e-05	0.0	0.0
295	69	1.15e-05	-1.25e-03	-0.04	6.26e-05	0.0	0.0
295	70	3.80e-06	-1.52e-03	-0.04	7.60e-05	0.0	0.0
295	71	1.15e-05	-1.25e-03	-0.04	6.26e-05	0.0	0.0
295	72	9.93e-06	-1.31e-03	-0.04	6.53e-05	0.0	0.0
296	2	-1.11e-05	-1.32e-03	-0.05	6.58e-05	-2.04e-06	0.0
296	4	-1.18e-05	-1.07e-03	-0.04	5.32e-05	-1.79e-06	0.0
296	10	2.24e-03	-1.65e-03	-0.04	4.11e-05	-2.97e-06	0.0
296	32	-5.79e-04	-3.02e-03	-0.04	4.38e-05	0.0	0.0
296	36	-5.70e-04	-3.11e-03	-0.04	4.37e-05	0.0	0.0
296	42	3.57e-03	-2.14e-03	-0.04	4.15e-05	-4.22e-06	0.0
296	64	-9.21e-04	-4.32e-03	-0.04	4.57e-05	0.0	0.0
296	68	-9.07e-04	-4.47e-03	-0.04	4.56e-05	0.0	0.0
296	70	-7.37e-06	-9.83e-04	-0.04	4.92e-05	-1.48e-06	0.0
296	71	1.23e-06	-8.10e-04	-0.04	4.05e-05	0.0	0.0
296	72	0.0	-8.45e-04	-0.04	4.23e-05	0.0	0.0
297	2	-1.86e-05	-5.48e-04	-0.04	2.75e-05	-2.36e-06	0.0
297	11	-2.22e-03	4.96e-04	-0.03	1.65e-05	0.0	0.0
297	32	-6.33e-04	-2.52e-03	-0.03	1.91e-05	0.0	0.0
297	36	-6.29e-04	-2.62e-03	-0.03	1.91e-05	0.0	0.0
297	43	-3.53e-03	9.88e-04	-0.03	1.62e-05	1.64e-06	0.0
297	64	-1.00e-03	-3.81e-03	-0.03	2.04e-05	0.0	0.0
297	68	-9.98e-04	-3.97e-03	-0.03	2.04e-05	0.0	0.0
297	70	-1.31e-05	-4.09e-04	-0.03	2.05e-05	-1.72e-06	0.0
297	72	-5.87e-06	-3.52e-04	-0.03	1.76e-05	-1.20e-06	0.0
298	1	-6.63e-06	1.93e-04	-0.04	-9.52e-06	-1.44e-06	0.0
298	2	-2.03e-05	2.39e-04	-0.04	-1.18e-05	-2.41e-06	0.0
298	20	-2.22e-03	-6.83e-04	-0.03	-6.85e-06	0.0	0.0
298	31	-6.49e-04	2.43e-03	-0.03	-9.31e-06	0.0	0.0
298	35	-6.53e-04	2.33e-03	-0.03	-9.32e-06	0.0	0.0
298	52	-3.53e-03	-1.17e-03	-0.03	-6.59e-06	1.47e-06	0.0
298	63	-1.03e-03	3.77e-03	-0.03	-1.05e-05	0.0	0.0
298	67	-1.03e-03	3.62e-03	-0.03	-1.05e-05	0.0	0.0
298	69	-5.22e-06	1.48e-04	-0.03	-7.29e-06	-1.11e-06	0.0
298	70	-1.43e-05	1.79e-04	-0.03	-8.84e-06	-1.76e-06	0.0
298	71	-5.22e-06	1.48e-04	-0.03	-7.29e-06	-1.11e-06	0.0
298	72	-7.05e-06	1.54e-04	-0.03	-7.60e-06	-1.24e-06	0.0
299	2	-1.64e-05	1.02e-03	-0.04	-5.07e-05	-2.20e-06	0.0
299	20	-2.24e-03	-2.06e-04	-0.03	-3.07e-05	0.0	0.0
299	31	-5.92e-04	2.92e-03	-0.03	-3.39e-05	0.0	0.0
299	35	-6.02e-04	2.82e-03	-0.03	-3.40e-05	0.0	0.0
299	52	-3.56e-03	-6.97e-04	-0.03	-3.04e-05	2.14e-06	0.0
299	63	-9.40e-04	4.28e-03	-0.03	-3.55e-05	0.0	0.0
299	67	-9.55e-04	4.12e-03	-0.03	-3.56e-05	0.0	0.0
299	70	-1.14e-05	7.60e-04	-0.03	-3.79e-05	-1.60e-06	0.0
299	72	-4.18e-06	6.54e-04	-0.03	-3.26e-05	-1.09e-06	0.0

300	2	-5.93e-06	1.76e-03	-0.05	-8.78e-05	-1.68e-06	0.0
300	4	-7.78e-06	1.42e-03	-0.04	-7.10e-05	-1.51e-06	0.0
300	17	2.26e-03	1.92e-03	-0.04	-5.48e-05	-3.10e-06	0.0
300	31	-5.30e-04	3.41e-03	-0.04	-5.82e-05	0.0	0.0
300	35	-5.46e-04	3.31e-03	-0.04	-5.82e-05	0.0	0.0
300	49	3.59e-03	2.42e-03	-0.04	-5.53e-05	-4.58e-06	0.0
300	63	-8.46e-04	4.78e-03	-0.04	-6.06e-05	0.0	0.0
300	67	-8.71e-04	4.62e-03	-0.04	-6.07e-05	0.0	0.0
300	69	5.06e-06	1.08e-03	-0.04	-5.40e-05	0.0	0.0
300	70	-3.39e-06	1.31e-03	-0.04	-6.55e-05	-1.20e-06	0.0
300	71	5.06e-06	1.08e-03	-0.04	-5.40e-05	0.0	0.0
300	72	3.37e-06	1.13e-03	-0.04	-5.63e-05	0.0	0.0
301	1	2.36e-05	1.95e-03	-0.05	-9.73e-05	0.0	0.0
301	2	1.28e-05	2.43e-03	-0.05	-1.21e-04	0.0	0.0
301	17	2.29e-03	2.34e-03	-0.04	-7.58e-05	-3.24e-06	0.0
301	31	-4.63e-04	3.86e-03	-0.04	-8.07e-05	0.0	0.0
301	35	-4.84e-04	3.76e-03	-0.04	-8.08e-05	0.0	0.0
301	49	3.63e-03	2.84e-03	-0.04	-7.65e-05	-5.18e-06	0.0
301	63	-7.46e-04	5.25e-03	-0.04	-8.43e-05	0.0	0.0
301	67	-7.80e-04	5.10e-03	-0.04	-8.45e-05	0.0	0.0
301	69	1.80e-05	1.49e-03	-0.04	-7.45e-05	0.0	0.0
301	70	1.08e-05	1.81e-03	-0.04	-9.04e-05	0.0	0.0
301	71	1.80e-05	1.49e-03	-0.04	-7.45e-05	0.0	0.0
301	72	1.66e-05	1.56e-03	-0.04	-7.77e-05	0.0	0.0
302	1	4.79e-05	2.39e-03	-0.06	-1.19e-04	1.29e-06	0.0
302	2	4.04e-05	2.98e-03	-0.06	-1.49e-04	0.0	0.0
302	17	2.32e-03	2.69e-03	-0.04	-9.31e-05	-2.72e-06	0.0
302	31	-3.90e-04	4.24e-03	-0.04	-9.97e-05	2.73e-06	0.0
302	35	-4.16e-04	4.14e-03	-0.04	-9.98e-05	3.09e-06	0.0
302	49	3.67e-03	3.20e-03	-0.04	-9.42e-05	-4.90e-06	0.0
302	63	-6.41e-04	5.66e-03	-0.05	-1.05e-04	3.75e-06	0.0
302	67	-6.84e-04	5.50e-03	-0.05	-1.05e-04	4.32e-06	0.0
302	69	3.67e-05	1.83e-03	-0.04	-9.13e-05	0.0	0.0
302	70	3.17e-05	2.22e-03	-0.05	-1.11e-04	0.0	0.0
302	71	3.67e-05	1.83e-03	-0.04	-9.13e-05	0.0	0.0
302	72	3.57e-05	1.91e-03	-0.04	-9.53e-05	0.0	0.0
303	1	7.83e-05	2.69e-03	-0.06	-1.34e-04	2.84e-06	0.0
303	2	7.54e-05	3.36e-03	-0.07	-1.68e-04	2.40e-06	0.0
303	17	2.35e-03	2.93e-03	-0.05	-1.05e-04	-2.35e-06	0.0
303	31	-3.12e-04	4.51e-03	-0.05	-1.13e-04	4.52e-06	0.0
303	35	-3.44e-04	4.41e-03	-0.05	-1.13e-04	4.98e-06	0.0
303	49	3.70e-03	3.44e-03	-0.05	-1.07e-04	-5.03e-06	0.0
303	63	-5.32e-04	5.95e-03	-0.05	-1.19e-04	5.90e-06	0.0
303	67	-5.82e-04	5.79e-03	-0.05	-1.20e-04	6.64e-06	0.0
303	69	6.01e-05	2.06e-03	-0.05	-1.03e-04	2.18e-06	0.0
303	70	5.81e-05	2.51e-03	-0.05	-1.25e-04	1.89e-06	0.0
303	71	6.01e-05	2.06e-03	-0.05	-1.03e-04	2.18e-06	0.0
303	72	5.97e-05	2.15e-03	-0.05	-1.07e-04	2.12e-06	0.0
304	2	1.14e-04	3.51e-03	-0.08	-1.75e-04	4.41e-06	0.0
304	17	2.38e-03	3.03e-03	-0.05	-1.10e-04	-1.95e-06	0.0
304	31	-2.33e-04	4.62e-03	-0.06	-1.19e-04	6.59e-06	0.0
304	35	-2.69e-04	4.53e-03	-0.06	-1.19e-04	7.16e-06	0.0
304	49	3.73e-03	3.55e-03	-0.05	-1.12e-04	-5.17e-06	0.0
304	63	-4.21e-04	6.08e-03	-0.06	-1.26e-04	8.41e-06	0.0
304	67	-4.78e-04	5.92e-03	-0.06	-1.26e-04	9.32e-06	0.0
304	70	8.69e-05	2.62e-03	-0.06	-1.31e-04	3.40e-06	0.0
304	72	8.57e-05	2.25e-03	-0.05	-1.12e-04	3.49e-06	0.0
305	2	9.06e-04	-3.67e-03	-0.08	1.83e-04	4.44e-05	0.0
305	10	2.89e-03	-3.09e-03	-0.05	1.14e-04	2.34e-05	0.0
305	32	2.48e-04	-4.60e-03	-0.06	1.25e-04	3.19e-05	0.0
305	36	2.82e-04	-4.69e-03	-0.06	1.25e-04	3.14e-05	0.0
305	42	4.25e-03	-3.59e-03	-0.06	1.15e-04	2.05e-05	0.0
305	64	5.59e-05	-5.99e-03	-0.06	1.32e-04	3.41e-05	0.0
305	68	1.10e-04	-6.13e-03	-0.06	1.32e-04	3.32e-05	0.0
305	70	6.80e-04	-2.74e-03	-0.06	1.37e-04	3.33e-05	0.0
305	72	5.96e-04	-2.35e-03	-0.06	1.17e-04	2.92e-05	0.0
306	2	7.81e-04	-3.60e-03	-0.07	1.79e-04	3.78e-05	0.0
306	10	2.81e-03	-3.04e-03	-0.05	1.12e-04	1.98e-05	0.0
306	32	1.32e-04	-4.54e-03	-0.05	1.22e-04	2.71e-05	0.0
306	36	1.63e-04	-4.63e-03	-0.05	1.22e-04	2.66e-05	0.0
306	42	4.17e-03	-3.54e-03	-0.05	1.13e-04	1.73e-05	0.0
306	64	-8.40e-05	-5.92e-03	-0.05	1.29e-04	2.88e-05	0.0
306	68	-3.38e-05	-6.06e-03	-0.05	1.29e-04	2.81e-05	0.0
306	70	5.86e-04	-2.68e-03	-0.06	1.34e-04	2.84e-05	0.0
306	72	5.15e-04	-2.30e-03	-0.05	1.15e-04	2.50e-05	0.0
307	2	5.80e-04	-3.28e-03	-0.06	1.64e-04	2.74e-05	0.0

307	10	2.67e-03	-2.84e-03	-0.05	1.02e-04	1.41e-05	0.0
307	32	-5.41e-05	-4.31e-03	-0.05	1.10e-04	1.97e-05	0.0
307	36	-2.73e-05	-4.40e-03	-0.05	1.10e-04	1.94e-05	0.0
307	42	4.03e-03	-3.33e-03	-0.05	1.02e-04	1.21e-05	0.0
307	64	-3.05e-04	-5.67e-03	-0.05	1.16e-04	2.10e-05	0.0
307	68	-2.63e-04	-5.81e-03	-0.05	1.16e-04	2.04e-05	0.0
307	70	4.36e-04	-2.45e-03	-0.05	1.22e-04	2.06e-05	0.0
307	72	3.85e-04	-2.10e-03	-0.05	1.05e-04	1.82e-05	0.0
308	2	4.11e-04	-2.76e-03	-0.06	1.38e-04	1.88e-05	0.0
308	10	2.55e-03	-2.52e-03	-0.04	8.54e-05	9.51e-06	0.0
308	32	-2.16e-04	-3.95e-03	-0.04	9.23e-05	1.37e-05	0.0
308	36	-1.95e-04	-4.04e-03	-0.04	9.21e-05	1.35e-05	0.0
308	42	3.90e-03	-3.00e-03	-0.04	8.58e-05	7.93e-06	0.0
308	64	-5.01e-04	-5.28e-03	-0.04	9.67e-05	1.46e-05	0.0
308	68	-4.66e-04	-5.42e-03	-0.04	9.64e-05	1.42e-05	0.0
308	70	3.09e-04	-2.06e-03	-0.04	1.03e-04	1.41e-05	0.0
308	72	2.75e-04	-1.77e-03	-0.04	8.84e-05	1.26e-05	0.0
309	2	2.85e-04	-2.10e-03	-0.05	1.05e-04	1.23e-05	0.0
309	10	2.46e-03	-2.10e-03	-0.04	6.49e-05	5.85e-06	0.0
309	32	-3.48e-04	-3.50e-03	-0.04	6.97e-05	8.33e-06	0.0
309	36	-3.32e-04	-3.59e-03	-0.04	6.96e-05	8.16e-06	0.0
309	42	3.80e-03	-2.58e-03	-0.04	6.50e-05	4.49e-06	0.0
309	64	-6.63e-04	-4.81e-03	-0.04	7.28e-05	8.42e-06	0.0
309	68	-6.38e-04	-4.94e-03	-0.04	7.25e-05	8.16e-06	0.0
309	70	2.14e-04	-1.57e-03	-0.04	7.83e-05	9.31e-06	0.0
309	72	1.92e-04	-1.35e-03	-0.04	6.73e-05	8.39e-06	0.0
310	2	2.01e-04	-1.36e-03	-0.05	6.77e-05	8.19e-06	0.0
310	10	2.38e-03	-1.64e-03	-0.04	4.18e-05	3.79e-06	0.0
310	32	-4.50e-04	-3.01e-03	-0.04	4.50e-05	5.71e-06	0.0
310	36	-4.40e-04	-3.10e-03	-0.04	4.49e-05	5.61e-06	0.0
310	42	3.71e-03	-2.11e-03	-0.04	4.19e-05	2.76e-06	0.0
310	64	-7.94e-04	-4.29e-03	-0.04	4.69e-05	5.81e-06	0.0
310	68	-7.79e-04	-4.43e-03	-0.04	4.67e-05	5.66e-06	0.0
310	70	1.52e-04	-1.01e-03	-0.04	5.05e-05	6.19e-06	0.0
310	72	1.37e-04	-8.71e-04	-0.04	4.35e-05	5.66e-06	0.0
311	2	1.58e-04	-5.63e-04	-0.04	2.82e-05	6.05e-06	0.0
311	10	2.33e-03	-1.15e-03	-0.03	1.75e-05	2.79e-06	0.0
311	12	-2.10e-03	-8.61e-04	-0.03	1.84e-05	5.46e-06	0.0
311	36	-5.22e-04	-2.59e-03	-0.03	1.95e-05	4.40e-06	0.0
311	42	3.65e-03	-1.62e-03	-0.03	1.76e-05	1.98e-06	0.0
311	44	-3.40e-03	-1.16e-03	-0.03	1.91e-05	6.23e-06	0.0
311	68	-8.93e-04	-3.91e-03	-0.03	2.07e-05	4.54e-06	0.0
311	70	1.19e-04	-4.21e-04	-0.03	2.10e-05	4.59e-06	0.0
311	72	1.08e-04	-3.62e-04	-0.03	1.81e-05	4.25e-06	0.0
312	1	1.31e-04	1.99e-04	-0.04	-9.78e-06	5.13e-06	0.0
312	2	1.50e-04	2.47e-04	-0.04	-1.21e-05	5.71e-06	0.0
312	17	2.32e-03	9.53e-04	-0.03	-7.71e-06	2.65e-06	0.0
312	19	-2.11e-03	6.65e-04	-0.03	-8.39e-06	5.21e-06	0.0
312	31	-5.46e-04	2.39e-03	-0.03	-9.42e-06	4.25e-06	0.0
312	49	3.64e-03	1.43e-03	-0.03	-7.84e-06	1.88e-06	0.0
312	51	-3.42e-03	9.68e-04	-0.03	-8.92e-06	5.95e-06	0.0
312	63	-9.27e-04	3.71e-03	-0.03	-1.06e-05	4.44e-06	0.0
312	69	1.01e-04	1.52e-04	-0.03	-7.49e-06	3.94e-06	0.0
312	70	1.13e-04	1.84e-04	-0.03	-9.07e-06	4.33e-06	0.0
312	71	1.01e-04	1.52e-04	-0.03	-7.49e-06	3.94e-06	0.0
312	72	1.03e-04	1.59e-04	-0.03	-7.81e-06	4.02e-06	0.0
313	2	1.78e-04	1.05e-03	-0.04	-5.21e-05	7.12e-06	0.0
313	17	2.37e-03	1.45e-03	-0.03	-3.22e-05	3.25e-06	0.0
313	31	-4.74e-04	2.90e-03	-0.03	-3.47e-05	4.99e-06	0.0
313	35	-4.84e-04	2.81e-03	-0.03	-3.49e-05	5.06e-06	0.0
313	49	3.69e-03	1.92e-03	-0.03	-3.23e-05	2.31e-06	0.0
313	63	-8.24e-04	4.22e-03	-0.03	-3.63e-05	5.07e-06	0.0
313	67	-8.40e-04	4.08e-03	-0.03	-3.65e-05	5.19e-06	0.0
313	70	1.34e-04	7.83e-04	-0.03	-3.89e-05	5.39e-06	0.0
313	72	1.21e-04	6.74e-04	-0.03	-3.35e-05	4.95e-06	0.0
314	2	2.43e-04	1.82e-03	-0.05	-9.03e-05	1.05e-05	0.0
314	17	2.43e-03	1.92e-03	-0.04	-5.59e-05	4.88e-06	0.0
314	31	-3.78e-04	3.40e-03	-0.04	-5.98e-05	6.99e-06	0.0
314	35	-3.94e-04	3.31e-03	-0.04	-6.00e-05	7.14e-06	0.0
314	49	3.76e-03	2.40e-03	-0.04	-5.60e-05	3.65e-06	0.0
314	63	-6.95e-04	4.74e-03	-0.04	-6.23e-05	7.01e-06	0.0
314	67	-7.21e-04	4.61e-03	-0.04	-6.25e-05	7.24e-06	0.0
314	70	1.83e-04	1.36e-03	-0.04	-6.75e-05	7.89e-06	0.0
314	72	1.65e-04	1.17e-03	-0.04	-5.80e-05	7.15e-06	0.0
315	2	3.51e-04	2.51e-03	-0.05	-1.25e-04	1.60e-05	0.0
315	17	2.51e-03	2.36e-03	-0.04	-7.75e-05	7.67e-06	0.0

315	31	-2.53e-04	3.87e-03	-0.04	-8.33e-05	1.04e-05	0.0
315	35	-2.75e-04	3.78e-03	-0.04	-8.35e-05	1.06e-05	0.0
315	49	3.86e-03	2.84e-03	-0.04	-7.78e-05	6.03e-06	0.0
315	63	-5.36e-04	5.24e-03	-0.04	-8.70e-05	1.04e-05	0.0
315	67	-5.71e-04	5.10e-03	-0.04	-8.73e-05	1.08e-05	0.0
315	70	2.64e-04	1.88e-03	-0.04	-9.34e-05	1.20e-05	0.0
315	72	2.36e-04	1.61e-03	-0.04	-8.03e-05	1.08e-05	0.0
316	2	5.03e-04	3.09e-03	-0.06	-1.54e-04	2.38e-05	0.0
316	17	2.62e-03	2.72e-03	-0.04	-9.56e-05	1.22e-05	0.0
316	31	-9.72e-05	4.27e-03	-0.05	-1.03e-04	1.69e-05	0.0
316	35	-1.25e-04	4.18e-03	-0.05	-1.04e-04	1.72e-05	0.0
316	49	3.98e-03	3.21e-03	-0.04	-9.62e-05	1.03e-05	0.0
316	63	-3.45e-04	5.67e-03	-0.05	-1.08e-04	1.78e-05	0.0
316	67	-3.89e-04	5.53e-03	-0.05	-1.09e-04	1.83e-05	0.0
316	70	3.78e-04	2.31e-03	-0.05	-1.15e-04	1.79e-05	0.0
316	72	3.35e-04	1.98e-03	-0.04	-9.87e-05	1.59e-05	0.0
317	2	6.93e-04	3.49e-03	-0.07	-1.74e-04	3.36e-05	0.0
317	17	2.75e-03	2.98e-03	-0.05	-1.08e-04	1.75e-05	0.0
317	31	8.50e-05	4.56e-03	-0.05	-1.18e-04	2.36e-05	0.0
317	35	5.25e-05	4.47e-03	-0.05	-1.18e-04	2.40e-05	0.0
317	49	4.11e-03	3.47e-03	-0.05	-1.09e-04	1.52e-05	0.0
317	63	-1.26e-04	5.98e-03	-0.05	-1.24e-04	2.49e-05	0.0
317	67	-1.77e-04	5.84e-03	-0.05	-1.24e-04	2.55e-05	0.0
317	70	5.20e-04	2.61e-03	-0.05	-1.30e-04	2.52e-05	0.0
317	72	4.58e-04	2.24e-03	-0.05	-1.11e-04	2.22e-05	0.0
318	2	9.00e-04	3.66e-03	-0.08	-1.82e-04	4.45e-05	0.0
318	17	2.89e-03	3.09e-03	-0.05	-1.14e-04	2.35e-05	0.0
318	31	2.83e-04	4.68e-03	-0.06	-1.24e-04	3.14e-05	0.0
318	35	2.46e-04	4.60e-03	-0.06	-1.24e-04	3.19e-05	0.0
318	49	4.26e-03	3.58e-03	-0.06	-1.15e-04	2.07e-05	0.0
318	63	1.13e-04	6.12e-03	-0.06	-1.31e-04	3.33e-05	0.0
318	67	5.43e-05	5.98e-03	-0.06	-1.32e-04	3.41e-05	0.0
318	70	6.76e-04	2.73e-03	-0.06	-1.36e-04	3.34e-05	0.0
318	72	5.92e-04	2.35e-03	-0.06	-1.17e-04	2.93e-05	0.0
319	2	1.55e-03	-4.02e-03	-0.08	1.99e-04	7.74e-05	0.0
319	10	3.33e-03	-3.08e-03	-0.06	1.24e-04	4.55e-05	0.0
319	32	6.69e-04	-4.88e-03	-0.06	1.37e-04	5.30e-05	0.0
319	36	7.05e-04	-4.89e-03	-0.06	1.36e-04	5.27e-05	0.0
319	42	4.72e-03	-3.44e-03	-0.06	1.24e-04	4.38e-05	0.0
319	64	4.88e-04	-6.30e-03	-0.06	1.45e-04	5.57e-05	0.0
319	68	5.46e-04	-6.33e-03	-0.06	1.44e-04	5.51e-05	0.0
319	70	1.16e-03	-3.00e-03	-0.06	1.49e-04	5.80e-05	0.0
319	72	1.01e-03	-2.57e-03	-0.06	1.28e-04	5.04e-05	0.0
320	2	1.33e-03	-3.92e-03	-0.08	1.95e-04	6.59e-05	0.0
320	10	3.18e-03	-3.02e-03	-0.05	1.21e-04	3.87e-05	0.0
320	32	4.84e-04	-4.80e-03	-0.06	1.33e-04	4.47e-05	0.0
320	36	5.18e-04	-4.82e-03	-0.06	1.33e-04	4.44e-05	0.0
320	42	4.57e-03	-3.38e-03	-0.05	1.21e-04	3.71e-05	0.0
320	64	2.75e-04	-6.22e-03	-0.06	1.41e-04	4.66e-05	0.0
320	68	3.29e-04	-6.24e-03	-0.06	1.40e-04	4.61e-05	0.0
320	70	1.00e-03	-2.93e-03	-0.06	1.45e-04	4.94e-05	0.0
320	72	8.71e-04	-2.51e-03	-0.05	1.25e-04	4.30e-05	0.0
321	2	9.84e-04	-3.56e-03	-0.07	1.77e-04	4.77e-05	0.0
321	10	2.95e-03	-2.78e-03	-0.05	1.09e-04	2.79e-05	0.0
321	32	1.96e-04	-4.54e-03	-0.05	1.20e-04	3.20e-05	0.0
321	36	2.25e-04	-4.55e-03	-0.05	1.19e-04	3.18e-05	0.0
321	42	4.32e-03	-3.13e-03	-0.05	1.10e-04	2.66e-05	0.0
321	64	-5.51e-05	-5.92e-03	-0.05	1.26e-04	3.31e-05	0.0
321	68	-9.37e-06	-5.95e-03	-0.05	1.26e-04	3.27e-05	0.0
321	70	7.39e-04	-2.66e-03	-0.05	1.32e-04	3.58e-05	0.0
321	72	6.46e-04	-2.28e-03	-0.05	1.13e-04	3.13e-05	0.0
322	2	6.97e-04	-2.98e-03	-0.06	1.48e-04	3.29e-05	0.0
322	10	2.75e-03	-2.62e-03	-0.04	9.12e-05	1.93e-05	0.0
322	32	-4.35e-05	-4.06e-03	-0.04	9.92e-05	2.22e-05	0.0
322	36	-2.04e-05	-4.14e-03	-0.04	9.89e-05	2.21e-05	0.0
322	42	4.11e-03	-3.08e-03	-0.04	9.12e-05	1.84e-05	0.0
322	64	-3.31e-04	-5.38e-03	-0.04	1.04e-04	2.30e-05	0.0
322	68	-2.94e-04	-5.50e-03	-0.04	1.03e-04	2.27e-05	0.0
322	70	5.23e-04	-2.23e-03	-0.04	1.11e-04	2.47e-05	0.0
322	72	4.60e-04	-1.91e-03	-0.04	9.51e-05	2.17e-05	0.0
323	2	4.89e-04	-2.25e-03	-0.05	1.12e-04	2.23e-05	0.0
323	10	2.60e-03	-2.17e-03	-0.04	6.88e-05	1.29e-05	0.0
323	32	-2.27e-04	-3.57e-03	-0.04	7.43e-05	1.41e-05	0.0
323	36	-2.10e-04	-3.64e-03	-0.04	7.41e-05	1.40e-05	0.0
323	42	3.95e-03	-2.62e-03	-0.04	6.86e-05	1.20e-05	0.0
323	64	-5.45e-04	-4.85e-03	-0.04	7.74e-05	1.40e-05	0.0

323	68	-5.18e-04	-4.97e-03	-0.04	7.71e-05	1.39e-05	0.0
323	70	3.67e-04	-1.68e-03	-0.04	8.36e-05	1.67e-05	0.0
323	72	3.24e-04	-1.45e-03	-0.04	7.19e-05	1.48e-05	0.0
324	2	3.55e-04	-1.44e-03	-0.05	7.18e-05	1.56e-05	0.0
324	10	2.49e-03	-1.66e-03	-0.04	4.41e-05	9.03e-06	0.0
324	12	-1.99e-03	-1.42e-03	-0.04	4.63e-05	1.09e-05	0.0
324	36	-3.49e-04	-3.11e-03	-0.04	4.74e-05	9.94e-06	0.0
324	42	3.83e-03	-2.12e-03	-0.04	4.39e-05	8.40e-06	0.0
324	44	-3.29e-03	-1.74e-03	-0.04	4.75e-05	1.14e-05	0.0
324	68	-6.90e-04	-4.41e-03	-0.04	4.92e-05	9.85e-06	0.0
324	70	2.67e-04	-1.08e-03	-0.04	5.36e-05	1.17e-05	0.0
324	72	2.36e-04	-9.29e-04	-0.04	4.62e-05	1.04e-05	0.0
325	2	2.86e-04	-5.98e-04	-0.04	2.98e-05	1.21e-05	0.0
325	10	2.42e-03	-1.14e-03	-0.03	1.83e-05	7.11e-06	0.0
325	12	-2.03e-03	-8.88e-04	-0.03	1.96e-05	8.67e-06	0.0
325	36	-4.47e-04	-2.56e-03	-0.03	2.04e-05	7.99e-06	0.0
325	42	3.75e-03	-1.60e-03	-0.03	1.83e-05	6.62e-06	0.0
325	44	-3.34e-03	-1.19e-03	-0.03	2.03e-05	9.10e-06	0.0
325	68	-8.19e-04	-3.86e-03	-0.03	2.15e-05	8.02e-06	0.0
325	70	2.15e-04	-4.46e-04	-0.03	2.23e-05	9.14e-06	0.0
325	72	1.91e-04	-3.84e-04	-0.03	1.92e-05	8.18e-06	0.0
326	2	2.74e-04	2.62e-04	-0.04	-1.28e-05	1.16e-05	0.0
326	17	2.41e-03	9.35e-04	-0.03	-7.98e-06	6.82e-06	0.0
326	19	-2.05e-03	6.79e-04	-0.03	-8.91e-06	8.31e-06	0.0
326	31	-4.73e-04	2.35e-03	-0.03	-9.72e-06	7.73e-06	0.0
326	49	3.73e-03	1.39e-03	-0.03	-8.00e-06	6.36e-06	0.0
326	51	-3.36e-03	9.84e-04	-0.03	-9.49e-06	8.74e-06	0.0
326	63	-8.56e-04	3.64e-03	-0.03	-1.08e-05	7.82e-06	0.0
326	70	2.06e-04	1.96e-04	-0.03	-9.59e-06	8.73e-06	0.0
326	72	1.83e-04	1.69e-04	-0.03	-8.26e-06	7.82e-06	0.0
327	2	3.18e-04	1.12e-03	-0.05	-5.52e-05	1.38e-05	0.0
327	17	2.46e-03	1.46e-03	-0.03	-3.39e-05	8.03e-06	0.0
327	19	-2.02e-03	1.22e-03	-0.03	-3.57e-05	9.80e-06	0.0
327	31	-3.91e-04	2.89e-03	-0.03	-3.66e-05	8.93e-06	0.0
327	49	3.80e-03	1.91e-03	-0.03	-3.37e-05	7.46e-06	0.0
327	51	-3.33e-03	1.53e-03	-0.04	-3.67e-05	1.03e-05	0.0
327	63	-7.43e-04	4.20e-03	-0.04	-3.81e-05	8.89e-06	0.0
327	70	2.39e-04	8.34e-04	-0.03	-4.12e-05	1.04e-05	0.0
327	72	2.12e-04	7.18e-04	-0.03	-3.55e-05	9.29e-06	0.0
328	2	4.23e-04	1.94e-03	-0.05	-9.62e-05	1.92e-05	0.0
328	17	2.56e-03	1.97e-03	-0.04	-5.91e-05	1.11e-05	0.0
328	31	-2.70e-04	3.44e-03	-0.04	-6.35e-05	1.21e-05	0.0
328	35	-2.88e-04	3.36e-03	-0.04	-6.37e-05	1.22e-05	0.0
328	49	3.90e-03	2.43e-03	-0.04	-5.89e-05	1.03e-05	0.0
328	63	-5.90e-04	4.76e-03	-0.04	-6.60e-05	1.20e-05	0.0
328	67	-6.17e-04	4.63e-03	-0.04	-6.63e-05	1.21e-05	0.0
328	70	3.18e-04	1.45e-03	-0.04	-7.18e-05	1.44e-05	0.0
328	72	2.81e-04	1.25e-03	-0.04	-6.19e-05	1.28e-05	0.0
329	2	6.00e-04	2.71e-03	-0.06	-1.34e-04	2.82e-05	0.0
329	17	2.69e-03	2.45e-03	-0.04	-8.26e-05	1.62e-05	0.0
329	31	-1.02e-04	3.95e-03	-0.04	-8.93e-05	1.78e-05	0.0
329	35	-1.26e-04	3.88e-03	-0.04	-8.95e-05	1.79e-05	0.0
329	49	4.05e-03	2.91e-03	-0.04	-8.25e-05	1.52e-05	0.0
329	63	-3.88e-04	5.30e-03	-0.04	-9.31e-05	1.76e-05	0.0
329	67	-4.26e-04	5.18e-03	-0.04	-9.35e-05	1.78e-05	0.0
329	70	4.50e-04	2.02e-03	-0.04	-1.00e-04	2.12e-05	0.0
329	72	3.96e-04	1.74e-03	-0.04	-8.62e-05	1.87e-05	0.0
330	2	8.55e-04	3.35e-03	-0.06	-1.66e-04	4.14e-05	0.0
330	17	2.87e-03	2.86e-03	-0.05	-1.03e-04	2.42e-05	0.0
330	31	1.21e-04	4.40e-03	-0.05	-1.12e-04	2.76e-05	0.0
330	35	9.12e-05	4.33e-03	-0.05	-1.12e-04	2.78e-05	0.0
330	49	4.24e-03	3.32e-03	-0.05	-1.03e-04	2.30e-05	0.0
330	63	-1.28e-04	5.78e-03	-0.05	-1.17e-04	2.84e-05	0.0
330	67	-1.75e-04	5.66e-03	-0.05	-1.18e-04	2.87e-05	0.0
330	70	6.42e-04	2.50e-03	-0.05	-1.24e-04	3.11e-05	0.0
330	72	5.62e-04	2.15e-03	-0.05	-1.07e-04	2.72e-05	0.0
331	2	1.18e-03	3.81e-03	-0.07	-1.89e-04	5.84e-05	0.0
331	17	3.09e-03	3.15e-03	-0.05	-1.17e-04	3.43e-05	0.0
331	31	3.97e-04	4.73e-03	-0.05	-1.28e-04	3.91e-05	0.0
331	35	3.62e-04	4.66e-03	-0.05	-1.28e-04	3.94e-05	0.0
331	49	4.47e-03	3.62e-03	-0.05	-1.17e-04	3.27e-05	0.0
331	63	1.91e-04	6.14e-03	-0.05	-1.35e-04	4.05e-05	0.0
331	67	1.36e-04	6.02e-03	-0.05	-1.36e-04	4.09e-05	0.0
331	70	8.88e-04	2.84e-03	-0.05	-1.41e-04	4.38e-05	0.0
331	72	7.74e-04	2.44e-03	-0.05	-1.21e-04	3.82e-05	0.0
332	2	1.55e-03	4.01e-03	-0.08	-1.98e-04	7.75e-05	0.0

332	17	3.33e-03	3.07e-03	-0.06	-1.23e-04	4.57e-05	0.0
332	31	7.07e-04	4.89e-03	-0.06	-1.36e-04	5.27e-05	0.0
332	35	6.68e-04	4.87e-03	-0.06	-1.36e-04	5.31e-05	0.0
332	49	4.72e-03	3.44e-03	-0.06	-1.24e-04	4.39e-05	0.0
332	63	5.51e-04	6.32e-03	-0.06	-1.44e-04	5.51e-05	0.0
332	67	4.88e-04	6.29e-03	-0.06	-1.44e-04	5.58e-05	0.0
332	70	1.16e-03	2.99e-03	-0.06	-1.48e-04	5.81e-05	0.0
332	72	1.01e-03	2.57e-03	-0.06	-1.27e-04	5.05e-05	0.0
333	2	1.93e-03	-4.54e-03	-0.09	2.24e-04	9.68e-05	0.0
333	10	3.62e-03	-3.42e-03	-0.06	1.39e-04	6.02e-05	0.0
333	32	9.05e-04	-5.21e-03	-0.06	1.54e-04	6.52e-05	0.0
333	36	9.46e-04	-5.23e-03	-0.06	1.54e-04	6.50e-05	0.0
333	42	5.04e-03	-3.80e-03	-0.06	1.39e-04	6.01e-05	0.0
333	64	7.28e-04	-6.64e-03	-0.06	1.64e-04	6.80e-05	0.0
333	68	7.93e-04	-6.67e-03	-0.06	1.63e-04	6.77e-05	0.0
333	70	1.45e-03	-3.39e-03	-0.07	1.67e-04	7.26e-05	0.0
333	72	1.25e-03	-2.91e-03	-0.06	1.43e-04	6.29e-05	0.0
334	2	1.64e-03	-4.42e-03	-0.08	2.18e-04	8.14e-05	0.0
334	10	3.42e-03	-3.34e-03	-0.06	1.35e-04	5.06e-05	0.0
334	32	6.64e-04	-5.11e-03	-0.06	1.49e-04	5.39e-05	0.0
334	36	7.02e-04	-5.13e-03	-0.06	1.49e-04	5.38e-05	0.0
334	42	4.83e-03	-3.72e-03	-0.06	1.35e-04	5.03e-05	0.0
334	64	4.51e-04	-6.53e-03	-0.06	1.59e-04	5.55e-05	0.0
334	68	5.11e-04	-6.56e-03	-0.06	1.58e-04	5.54e-05	0.0
334	70	1.23e-03	-3.30e-03	-0.06	1.63e-04	6.10e-05	0.0
334	72	1.07e-03	-2.83e-03	-0.06	1.40e-04	5.31e-05	0.0
335	2	1.17e-03	-3.98e-03	-0.07	1.96e-04	5.71e-05	0.0
335	10	3.11e-03	-3.06e-03	-0.05	1.21e-04	3.57e-05	0.0
335	32	3.00e-04	-4.78e-03	-0.05	1.33e-04	3.73e-05	0.0
335	36	3.32e-04	-4.80e-03	-0.05	1.33e-04	3.72e-05	0.0
335	42	4.50e-03	-3.42e-03	-0.05	1.21e-04	3.55e-05	0.0
335	64	4.05e-05	-6.15e-03	-0.05	1.40e-04	3.80e-05	0.0
335	68	9.20e-05	-6.18e-03	-0.05	1.40e-04	3.79e-05	0.0
335	70	8.79e-04	-2.97e-03	-0.05	1.47e-04	4.28e-05	0.0
335	72	7.67e-04	-2.55e-03	-0.05	1.26e-04	3.74e-05	0.0
336	2	8.14e-04	-3.29e-03	-0.06	1.62e-04	3.85e-05	0.0
336	10	2.86e-03	-2.61e-03	-0.04	9.98e-05	2.40e-05	0.0
336	32	1.71e-05	-4.29e-03	-0.04	1.09e-04	2.37e-05	0.0
336	36	4.31e-05	-4.30e-03	-0.04	1.08e-04	2.37e-05	0.0
336	42	4.24e-03	-2.95e-03	-0.04	9.95e-05	2.37e-05	0.0
336	64	-2.77e-04	-5.62e-03	-0.04	1.14e-04	2.33e-05	0.0
336	68	-2.36e-04	-5.64e-03	-0.04	1.13e-04	2.33e-05	0.0
336	70	6.11e-04	-2.46e-03	-0.05	1.21e-04	2.89e-05	0.0
336	72	5.35e-04	-2.11e-03	-0.04	1.04e-04	2.54e-05	0.0
337	2	5.69e-04	-2.46e-03	-0.05	1.21e-04	2.61e-05	0.0
337	10	2.67e-03	-2.26e-03	-0.04	7.44e-05	1.64e-05	0.0
337	32	-1.85e-04	-3.66e-03	-0.04	8.02e-05	1.60e-05	0.0
337	36	-1.66e-04	-3.73e-03	-0.04	8.00e-05	1.60e-05	0.0
337	42	4.04e-03	-2.71e-03	-0.04	7.41e-05	1.62e-05	0.0
337	64	-5.07e-04	-4.93e-03	-0.04	8.34e-05	1.57e-05	0.0
337	68	-4.77e-04	-5.04e-03	-0.04	8.30e-05	1.57e-05	0.0
337	70	4.27e-04	-1.84e-03	-0.04	9.06e-05	1.96e-05	0.0
337	72	3.75e-04	-1.58e-03	-0.04	7.81e-05	1.73e-05	0.0
338	2	4.17e-04	-1.56e-03	-0.05	7.72e-05	1.85e-05	0.0
338	10	2.55e-03	-1.71e-03	-0.04	4.73e-05	1.17e-05	0.0
338	12	-1.97e-03	-1.50e-03	-0.04	4.98e-05	1.19e-05	0.0
338	36	-3.15e-04	-3.14e-03	-0.04	5.07e-05	1.15e-05	0.0
338	42	3.90e-03	-2.15e-03	-0.04	4.71e-05	1.15e-05	0.0
338	44	-3.28e-03	-1.82e-03	-0.04	5.10e-05	1.19e-05	0.0
338	68	-6.58e-04	-4.42e-03	-0.04	5.24e-05	1.13e-05	0.0
338	70	3.13e-04	-1.17e-03	-0.04	5.77e-05	1.39e-05	0.0
338	72	2.76e-04	-1.00e-03	-0.04	4.97e-05	1.23e-05	0.0
339	2	3.40e-04	-6.43e-04	-0.04	3.19e-05	1.47e-05	0.0
339	10	2.47e-03	-1.14e-03	-0.03	1.96e-05	9.31e-06	0.0
339	12	-2.02e-03	-9.19e-04	-0.03	2.09e-05	9.56e-06	0.0
339	36	-4.17e-04	-2.55e-03	-0.03	2.15e-05	9.35e-06	0.0
339	42	3.80e-03	-1.58e-03	-0.03	1.95e-05	9.21e-06	0.0
339	44	-3.33e-03	-1.23e-03	-0.03	2.16e-05	9.60e-06	0.0
339	68	-7.91e-04	-3.81e-03	-0.03	2.26e-05	9.28e-06	0.0
339	70	2.55e-04	-4.80e-04	-0.03	2.38e-05	1.11e-05	0.0
339	72	2.25e-04	-4.14e-04	-0.03	2.05e-05	9.80e-06	0.0
340	2	3.27e-04	2.82e-04	-0.04	-1.37e-05	1.41e-05	0.0
340	17	2.46e-03	9.21e-04	-0.03	-8.45e-06	8.94e-06	0.0
340	19	-2.03e-03	6.94e-04	-0.03	-9.46e-06	9.20e-06	0.0
340	31	-4.44e-04	2.32e-03	-0.03	-1.01e-05	9.06e-06	0.0
340	49	3.78e-03	1.36e-03	-0.03	-8.42e-06	8.85e-06	0.0

340	51	-3.35e-03	1.00e-03	-0.03	-1.00e-05	9.27e-06	0.0
340	63	-8.29e-04	3.58e-03	-0.03	-1.11e-05	9.04e-06	0.0
340	70	2.45e-04	2.11e-04	-0.03	-1.03e-05	1.06e-05	0.0
340	72	2.16e-04	1.82e-04	-0.03	-8.84e-06	9.39e-06	0.0
341	2	3.75e-04	1.20e-03	-0.05	-5.92e-05	1.66e-05	0.0
341	17	2.52e-03	1.49e-03	-0.04	-3.63e-05	1.04e-05	0.0
341	19	-2.00e-03	1.27e-03	-0.04	-3.83e-05	1.07e-05	0.0
341	31	-3.60e-04	2.90e-03	-0.04	-3.90e-05	1.04e-05	0.0
341	49	3.86e-03	1.93e-03	-0.03	-3.61e-05	1.03e-05	0.0
341	51	-3.32e-03	1.59e-03	-0.04	-3.93e-05	1.07e-05	0.0
341	63	-7.13e-04	4.18e-03	-0.04	-4.04e-05	1.02e-05	0.0
341	70	2.82e-04	9.00e-04	-0.04	-4.42e-05	1.24e-05	0.0
341	72	2.48e-04	7.76e-04	-0.04	-3.81e-05	1.10e-05	0.0
342	2	4.94e-04	2.11e-03	-0.05	-1.04e-04	2.25e-05	0.0
342	17	2.62e-03	2.05e-03	-0.04	-6.37e-05	1.41e-05	0.0
342	19	-1.92e-03	1.85e-03	-0.04	-6.70e-05	1.44e-05	0.0
342	31	-2.32e-04	3.50e-03	-0.04	-6.83e-05	1.39e-05	0.0
342	49	3.98e-03	2.49e-03	-0.04	-6.34e-05	1.40e-05	0.0
342	51	-3.24e-03	2.18e-03	-0.04	-6.87e-05	1.43e-05	0.0
342	63	-5.54e-04	4.79e-03	-0.04	-7.07e-05	1.36e-05	0.0
342	70	3.71e-04	1.58e-03	-0.04	-7.76e-05	1.69e-05	0.0
342	72	3.26e-04	1.36e-03	-0.04	-6.69e-05	1.49e-05	0.0
343	2	6.97e-04	2.97e-03	-0.06	-1.46e-04	3.29e-05	0.0
343	17	2.78e-03	2.59e-03	-0.04	-8.99e-05	2.05e-05	0.0
343	31	-5.00e-05	4.08e-03	-0.04	-9.72e-05	2.02e-05	0.0
343	35	-7.61e-05	4.01e-03	-0.04	-9.75e-05	2.03e-05	0.0
343	49	4.15e-03	3.03e-03	-0.04	-8.97e-05	2.03e-05	0.0
343	63	-3.40e-04	5.41e-03	-0.04	-1.01e-04	1.98e-05	0.0
343	67	-3.82e-04	5.30e-03	-0.04	-1.02e-04	1.98e-05	0.0
343	70	5.23e-04	2.22e-03	-0.04	-1.09e-04	2.47e-05	0.0
343	72	4.59e-04	1.91e-03	-0.04	-9.42e-05	2.17e-05	0.0
344	2	1.01e-03	3.73e-03	-0.07	-1.84e-04	4.91e-05	0.0
344	17	3.00e-03	2.89e-03	-0.05	-1.13e-04	3.08e-05	0.0
344	31	2.06e-04	4.62e-03	-0.05	-1.24e-04	3.20e-05	0.0
344	35	1.73e-04	4.60e-03	-0.05	-1.24e-04	3.20e-05	0.0
344	49	4.39e-03	3.25e-03	-0.05	-1.13e-04	3.06e-05	0.0
344	63	-4.88e-05	5.98e-03	-0.05	-1.30e-04	3.26e-05	0.0
344	67	-1.01e-04	5.96e-03	-0.05	-1.30e-04	3.26e-05	0.0
344	70	7.56e-04	2.79e-03	-0.05	-1.37e-04	3.68e-05	0.0
344	72	6.61e-04	2.39e-03	-0.05	-1.18e-04	3.22e-05	0.0
345	2	1.44e-03	4.28e-03	-0.08	-2.11e-04	7.14e-05	0.0
345	17	3.29e-03	3.25e-03	-0.05	-1.30e-04	4.43e-05	0.0
345	31	5.47e-04	5.02e-03	-0.05	-1.43e-04	4.68e-05	0.0
345	35	5.08e-04	5.00e-03	-0.05	-1.44e-04	4.69e-05	0.0
345	49	4.70e-03	3.62e-03	-0.05	-1.31e-04	4.40e-05	0.0
345	63	3.37e-04	6.43e-03	-0.06	-1.51e-04	4.79e-05	0.0
345	67	2.76e-04	6.40e-03	-0.06	-1.52e-04	4.80e-05	0.0
345	70	1.08e-03	3.20e-03	-0.06	-1.57e-04	5.35e-05	0.0
345	72	9.37e-04	2.74e-03	-0.05	-1.35e-04	4.66e-05	0.0
346	2	1.93e-03	4.53e-03	-0.09	-2.23e-04	9.70e-05	0.0
346	17	3.62e-03	3.42e-03	-0.06	-1.38e-04	6.04e-05	0.0
346	31	9.51e-04	5.22e-03	-0.06	-1.53e-04	6.51e-05	0.0
346	35	9.07e-04	5.20e-03	-0.06	-1.53e-04	6.53e-05	0.0
346	49	5.05e-03	3.79e-03	-0.06	-1.39e-04	6.03e-05	0.0
346	63	8.01e-04	6.66e-03	-0.06	-1.63e-04	6.78e-05	0.0
346	67	7.31e-04	6.63e-03	-0.06	-1.63e-04	6.81e-05	0.0
346	70	1.45e-03	3.38e-03	-0.07	-1.66e-04	7.27e-05	0.0
346	72	1.25e-03	2.90e-03	-0.06	-1.43e-04	6.30e-05	0.0
347	2	1.83e-03	-5.20e-03	-0.09	2.53e-04	9.29e-05	0.0
347	10	3.65e-03	-3.84e-03	-0.06	1.57e-04	6.18e-05	0.0
347	32	8.11e-04	-5.62e-03	-0.07	1.75e-04	6.10e-05	0.0
347	36	8.61e-04	-5.64e-03	-0.07	1.74e-04	6.13e-05	0.0
347	42	5.12e-03	-4.22e-03	-0.06	1.59e-04	6.41e-05	0.0
347	64	6.14e-04	-7.07e-03	-0.07	1.86e-04	6.28e-05	0.0
347	68	6.94e-04	-7.09e-03	-0.07	1.86e-04	6.32e-05	0.0
347	70	1.37e-03	-3.88e-03	-0.07	1.89e-04	6.96e-05	0.0
347	72	1.19e-03	-3.32e-03	-0.06	1.62e-04	6.03e-05	0.0
348	2	1.51e-03	-5.06e-03	-0.08	2.47e-04	7.60e-05	0.0
348	10	3.41e-03	-3.75e-03	-0.06	1.53e-04	5.06e-05	0.0
348	32	5.57e-04	-5.52e-03	-0.06	1.70e-04	4.91e-05	0.0
348	36	6.02e-04	-5.53e-03	-0.06	1.69e-04	4.94e-05	0.0
348	42	4.86e-03	-4.13e-03	-0.06	1.54e-04	5.23e-05	0.0
348	64	3.27e-04	-6.94e-03	-0.06	1.80e-04	5.00e-05	0.0
348	68	3.99e-04	-6.97e-03	-0.06	1.80e-04	5.04e-05	0.0
348	70	1.13e-03	-3.78e-03	-0.06	1.85e-04	5.70e-05	0.0
348	72	9.82e-04	-3.24e-03	-0.06	1.58e-04	4.95e-05	0.0

349	2	1.04e-03	-4.47e-03	-0.07	2.19e-04	5.04e-05	0.0
349	10	3.08e-03	-3.37e-03	-0.05	1.35e-04	3.39e-05	0.0
349	32	1.87e-04	-5.06e-03	-0.05	1.48e-04	3.01e-05	0.0
349	36	2.26e-04	-5.08e-03	-0.05	1.48e-04	3.03e-05	0.0
349	42	4.51e-03	-3.73e-03	-0.05	1.35e-04	3.51e-05	0.0
349	64	-8.89e-05	-6.43e-03	-0.05	1.56e-04	2.91e-05	0.0
349	68	-2.78e-05	-6.46e-03	-0.05	1.55e-04	2.94e-05	0.0
349	70	7.78e-04	-3.34e-03	-0.05	1.63e-04	3.78e-05	0.0
349	72	6.80e-04	-2.87e-03	-0.05	1.41e-04	3.31e-05	0.0
350	2	7.12e-04	-3.61e-03	-0.06	1.77e-04	3.34e-05	0.0
350	10	2.83e-03	-2.81e-03	-0.04	1.09e-04	2.26e-05	0.0
350	32	-5.88e-05	-4.45e-03	-0.05	1.18e-04	1.98e-05	0.0
350	36	-2.93e-05	-4.47e-03	-0.05	1.18e-04	2.00e-05	0.0
350	42	4.24e-03	-3.16e-03	-0.04	1.09e-04	2.34e-05	0.0
350	64	-3.60e-04	-5.76e-03	-0.05	1.23e-04	1.90e-05	0.0
350	68	-3.13e-04	-5.79e-03	-0.05	1.22e-04	1.93e-05	0.0
350	70	5.34e-04	-2.70e-03	-0.05	1.32e-04	2.50e-05	0.0
350	72	4.68e-04	-2.32e-03	-0.05	1.14e-04	2.20e-05	0.0
351	2	5.04e-04	-2.66e-03	-0.05	1.30e-04	2.28e-05	0.0
351	10	2.66e-03	-2.37e-03	-0.04	8.04e-05	1.55e-05	0.0
351	32	-2.32e-04	-3.75e-03	-0.04	8.58e-05	1.36e-05	0.0
351	36	-2.11e-04	-3.81e-03	-0.04	8.56e-05	1.37e-05	0.0
351	42	4.04e-03	-2.80e-03	-0.04	8.03e-05	1.60e-05	0.0
351	64	-5.57e-04	-5.00e-03	-0.04	8.88e-05	1.31e-05	0.0
351	68	-5.24e-04	-5.09e-03	-0.04	8.85e-05	1.33e-05	0.0
351	70	3.78e-04	-1.99e-03	-0.04	9.75e-05	1.72e-05	0.0
351	72	3.32e-04	-1.71e-03	-0.04	8.41e-05	1.51e-05	0.0
352	2	3.79e-04	-1.67e-03	-0.05	8.23e-05	1.66e-05	0.0
352	10	2.54e-03	-1.76e-03	-0.04	5.07e-05	1.12e-05	0.0
352	12	-2.01e-03	-1.57e-03	-0.04	5.29e-05	9.82e-06	0.0
352	36	-3.42e-04	-3.16e-03	-0.04	5.38e-05	1.01e-05	0.0
352	42	3.90e-03	-2.18e-03	-0.04	5.05e-05	1.16e-05	0.0
352	44	-3.33e-03	-1.89e-03	-0.04	5.40e-05	9.34e-06	0.0
352	68	-6.86e-04	-4.42e-03	-0.04	5.54e-05	9.82e-06	0.0
352	70	2.84e-04	-1.25e-03	-0.04	6.15e-05	1.25e-05	0.0
352	72	2.50e-04	-1.08e-03	-0.04	5.31e-05	1.10e-05	0.0
353	2	3.16e-04	-6.86e-04	-0.05	3.39e-05	1.35e-05	0.0
353	10	2.47e-03	-1.15e-03	-0.03	2.09e-05	9.11e-06	0.0
353	12	-2.04e-03	-9.46e-04	-0.04	2.21e-05	8.15e-06	0.0
353	36	-4.36e-04	-2.53e-03	-0.03	2.26e-05	8.41e-06	0.0
353	42	3.80e-03	-1.57e-03	-0.03	2.08e-05	9.36e-06	0.0
353	44	-3.37e-03	-1.25e-03	-0.04	2.27e-05	7.84e-06	0.0
353	68	-8.12e-04	-3.77e-03	-0.04	2.36e-05	8.26e-06	0.0
353	70	2.37e-04	-5.13e-04	-0.04	2.53e-05	1.02e-05	0.0
353	72	2.08e-04	-4.42e-04	-0.03	2.19e-05	8.97e-06	0.0
354	2	3.05e-04	3.02e-04	-0.05	-1.46e-05	1.30e-05	0.0
354	17	2.45e-03	9.08e-04	-0.03	-9.00e-06	8.77e-06	0.0
354	19	-2.06e-03	7.07e-04	-0.03	-9.89e-06	7.90e-06	0.0
354	31	-4.62e-04	2.29e-03	-0.03	-1.05e-05	8.17e-06	0.0
354	49	3.79e-03	1.33e-03	-0.03	-8.98e-06	9.02e-06	0.0
354	51	-3.38e-03	1.01e-03	-0.03	-1.04e-05	7.63e-06	0.0
354	63	-8.49e-04	3.53e-03	-0.03	-1.14e-05	8.06e-06	0.0
354	70	2.29e-04	2.25e-04	-0.03	-1.09e-05	9.78e-06	0.0
354	72	2.01e-04	1.95e-04	-0.03	-9.39e-06	8.64e-06	0.0
355	2	3.44e-04	1.29e-03	-0.05	-6.30e-05	1.50e-05	0.0
355	17	2.51e-03	1.52e-03	-0.04	-3.88e-05	1.01e-05	0.0
355	19	-2.03e-03	1.33e-03	-0.04	-4.05e-05	8.93e-06	0.0
355	31	-3.83e-04	2.91e-03	-0.04	-4.12e-05	9.21e-06	0.0
355	49	3.86e-03	1.94e-03	-0.04	-3.86e-05	1.05e-05	0.0
355	51	-3.36e-03	1.64e-03	-0.04	-4.14e-05	8.52e-06	0.0
355	63	-7.38e-04	4.16e-03	-0.04	-4.25e-05	8.97e-06	0.0
355	70	2.59e-04	9.64e-04	-0.04	-4.71e-05	1.13e-05	0.0
355	72	2.27e-04	8.31e-04	-0.04	-4.06e-05	9.95e-06	0.0
356	2	4.40e-04	2.28e-03	-0.05	-1.11e-04	1.99e-05	0.0
356	17	2.61e-03	2.13e-03	-0.04	-6.86e-05	1.35e-05	0.0
356	19	-1.98e-03	1.95e-03	-0.04	-7.15e-05	1.16e-05	0.0
356	31	-2.69e-04	3.56e-03	-0.04	-7.28e-05	1.20e-05	0.0
356	49	3.98e-03	2.56e-03	-0.04	-6.84e-05	1.39e-05	0.0
356	51	-3.31e-03	2.28e-03	-0.04	-7.30e-05	1.09e-05	0.0
356	63	-5.93e-04	4.83e-03	-0.04	-7.51e-05	1.16e-05	0.0
356	70	3.31e-04	1.70e-03	-0.04	-8.32e-05	1.49e-05	0.0
356	72	2.90e-04	1.47e-03	-0.04	-7.18e-05	1.31e-05	0.0
357	2	6.08e-04	3.25e-03	-0.06	-1.59e-04	2.84e-05	0.0
357	17	2.75e-03	2.74e-03	-0.04	-9.79e-05	1.93e-05	0.0
357	31	-1.12e-04	4.21e-03	-0.04	-1.05e-04	1.70e-05	0.0
357	35	-1.41e-04	4.15e-03	-0.04	-1.05e-04	1.69e-05	0.0

357	49	4.15e-03	3.17e-03	-0.04	-9.77e-05	2.00e-05	0.0
357	63	-4.06e-04	5.52e-03	-0.04	-1.09e-04	1.64e-05	0.0
357	67	-4.52e-04	5.42e-03	-0.04	-1.09e-04	1.62e-05	0.0
357	70	4.57e-04	2.43e-03	-0.04	-1.19e-04	2.14e-05	0.0
357	72	4.00e-04	2.09e-03	-0.04	-1.02e-04	1.87e-05	0.0
358	2	8.77e-04	4.15e-03	-0.07	-2.03e-04	4.26e-05	0.0
358	17	2.97e-03	3.16e-03	-0.05	-1.25e-04	2.87e-05	0.0
358	31	1.05e-04	4.85e-03	-0.05	-1.36e-04	2.55e-05	0.0
358	35	6.72e-05	4.83e-03	-0.05	-1.36e-04	2.53e-05	0.0
358	49	4.39e-03	3.52e-03	-0.05	-1.25e-04	2.97e-05	0.0
358	63	-1.60e-04	6.20e-03	-0.05	-1.42e-04	2.47e-05	0.0
358	67	-2.21e-04	6.17e-03	-0.05	-1.43e-04	2.43e-05	0.0
358	70	6.58e-04	3.10e-03	-0.05	-1.52e-04	3.20e-05	0.0
358	72	5.76e-04	2.67e-03	-0.05	-1.31e-04	2.80e-05	0.0
359	2	1.29e-03	4.88e-03	-0.08	-2.38e-04	6.51e-05	0.0
359	17	3.27e-03	3.63e-03	-0.06	-1.48e-04	4.36e-05	0.0
359	31	4.36e-04	5.39e-03	-0.06	-1.62e-04	4.18e-05	0.0
359	35	3.91e-04	5.38e-03	-0.06	-1.63e-04	4.16e-05	0.0
359	49	4.71e-03	4.01e-03	-0.05	-1.48e-04	4.51e-05	0.0
359	63	2.13e-04	6.81e-03	-0.06	-1.72e-04	4.24e-05	0.0
359	67	1.41e-04	6.78e-03	-0.06	-1.72e-04	4.20e-05	0.0
359	70	9.70e-04	3.65e-03	-0.06	-1.78e-04	4.88e-05	0.0
359	72	8.46e-04	3.13e-03	-0.06	-1.53e-04	4.25e-05	0.0
360	2	1.84e-03	5.19e-03	-0.09	-2.53e-04	9.32e-05	0.0
360	17	3.65e-03	3.83e-03	-0.06	-1.57e-04	6.20e-05	0.0
360	31	8.78e-04	5.64e-03	-0.07	-1.74e-04	6.16e-05	0.0
360	35	8.26e-04	5.62e-03	-0.07	-1.74e-04	6.14e-05	0.0
360	49	5.12e-03	4.21e-03	-0.06	-1.58e-04	6.42e-05	0.0
360	63	7.17e-04	7.09e-03	-0.07	-1.85e-04	6.37e-05	0.0
360	67	6.34e-04	7.06e-03	-0.07	-1.86e-04	6.32e-05	0.0
360	70	1.38e-03	3.88e-03	-0.07	-1.89e-04	6.98e-05	0.0
360	72	1.20e-03	3.32e-03	-0.06	-1.62e-04	6.05e-05	0.0
361	2	1.05e-03	-6.21e-03	-0.10	2.96e-04	5.28e-05	0.0
361	10	3.27e-03	-4.63e-03	-0.07	1.87e-04	4.42e-05	0.0
361	32	2.66e-04	-6.33e-03	-0.07	2.08e-04	3.23e-05	0.0
361	36	3.28e-04	-6.38e-03	-0.07	2.08e-04	3.34e-05	0.0
361	42	4.81e-03	-5.14e-03	-0.07	1.91e-04	5.08e-05	0.0
361	64	3.54e-05	-7.84e-03	-0.07	2.24e-04	3.18e-05	0.0
361	68	1.34e-04	-7.92e-03	-0.07	2.24e-04	3.35e-05	0.0
361	70	7.84e-04	-4.63e-03	-0.07	2.21e-04	3.96e-05	0.0
361	72	6.83e-04	-3.95e-03	-0.07	1.89e-04	3.45e-05	0.0
362	2	3.64e-04	-6.03e-03	-0.09	2.88e-04	2.54e-05	0.0
362	10	2.86e-03	-4.37e-03	-0.06	1.80e-04	2.56e-05	0.0
362	32	-2.55e-04	-6.16e-03	-0.06	1.99e-04	1.17e-05	0.0
362	36	-1.93e-04	-6.18e-03	-0.06	1.99e-04	1.27e-05	0.0
362	42	4.40e-03	-4.77e-03	-0.06	1.83e-04	3.09e-05	0.0
362	64	-5.52e-04	-7.62e-03	-0.06	2.12e-04	8.84e-06	0.0
362	68	-4.53e-04	-7.65e-03	-0.06	2.12e-04	1.04e-05	0.0
362	70	2.75e-04	-4.50e-03	-0.07	2.15e-04	1.92e-05	0.0
362	72	2.54e-04	-3.85e-03	-0.06	1.85e-04	1.71e-05	0.0
363	2	5.29e-04	-4.88e-03	-0.07	2.36e-04	2.51e-05	0.0
363	10	2.81e-03	-3.75e-03	-0.05	1.47e-04	2.07e-05	0.0
363	32	-1.34e-04	-5.24e-03	-0.05	1.58e-04	1.55e-05	0.0
363	36	-9.15e-05	-5.29e-03	-0.05	1.58e-04	1.60e-05	0.0
363	42	4.27e-03	-4.19e-03	-0.05	1.48e-04	2.35e-05	0.0
363	64	-4.12e-04	-6.56e-03	-0.05	1.66e-04	1.52e-05	0.0
363	68	-3.44e-04	-6.64e-03	-0.05	1.65e-04	1.60e-05	0.0
363	70	3.97e-04	-3.64e-03	-0.06	1.76e-04	1.89e-05	0.0
363	72	3.48e-04	-3.13e-03	-0.05	1.52e-04	1.66e-05	0.0
364	2	4.12e-04	-3.84e-03	-0.06	1.87e-04	1.86e-05	0.0
364	10	2.67e-03	-3.10e-03	-0.05	1.17e-04	1.47e-05	0.0
364	32	-2.51e-04	-4.51e-03	-0.05	1.24e-04	1.02e-05	0.0
364	36	-2.19e-04	-4.57e-03	-0.05	1.24e-04	1.05e-05	0.0
364	42	4.09e-03	-3.52e-03	-0.05	1.17e-04	1.64e-05	0.0
364	64	-5.54e-04	-5.78e-03	-0.05	1.28e-04	9.25e-06	0.0
364	68	-5.03e-04	-5.86e-03	-0.05	1.28e-04	9.73e-06	0.0
364	70	3.09e-04	-2.87e-03	-0.05	1.40e-04	1.40e-05	0.0
364	72	2.71e-04	-2.47e-03	-0.05	1.21e-04	1.22e-05	0.0
365	2	3.21e-04	-2.80e-03	-0.05	1.37e-04	1.39e-05	0.0
365	10	2.56e-03	-2.44e-03	-0.04	8.49e-05	1.06e-05	0.0
365	32	-3.48e-04	-3.80e-03	-0.04	8.94e-05	7.90e-06	0.0
365	36	-3.26e-04	-3.86e-03	-0.04	8.93e-05	8.07e-06	0.0
365	42	3.95e-03	-2.86e-03	-0.04	8.51e-05	1.17e-05	0.0
365	64	-6.73e-04	-5.03e-03	-0.04	9.22e-05	7.33e-06	0.0
365	68	-6.38e-04	-5.11e-03	-0.04	9.20e-05	7.60e-06	0.0
365	70	2.41e-04	-2.09e-03	-0.04	1.02e-04	1.05e-05	0.0

365	72	2.11e-04	-1.80e-03	-0.04	8.81e-05	9.19e-06	0.0
366	2	2.63e-04	-1.75e-03	-0.05	8.58e-05	1.10e-05	0.0
366	10	2.48e-03	-1.79e-03	-0.04	5.33e-05	8.18e-06	0.0
366	12	-2.09e-03	-1.61e-03	-0.04	5.46e-05	5.73e-06	0.0
366	36	-4.16e-04	-3.17e-03	-0.04	5.58e-05	6.52e-06	0.0
366	42	3.84e-03	-2.20e-03	-0.04	5.33e-05	8.87e-06	0.0
366	44	-3.42e-03	-1.93e-03	-0.04	5.55e-05	4.96e-06	0.0
366	68	-7.60e-04	-4.40e-03	-0.04	5.73e-05	6.23e-06	0.0
366	70	1.97e-04	-1.31e-03	-0.04	6.41e-05	8.28e-06	0.0
366	72	1.73e-04	-1.13e-03	-0.04	5.54e-05	7.27e-06	0.0
367	2	2.33e-04	-7.15e-04	-0.05	3.52e-05	9.52e-06	0.0
367	10	2.42e-03	-1.14e-03	-0.04	2.19e-05	6.92e-06	0.0
367	12	-2.11e-03	-9.63e-04	-0.04	2.27e-05	5.17e-06	0.0
367	36	-4.91e-04	-2.50e-03	-0.04	2.34e-05	5.76e-06	0.0
367	42	3.76e-03	-1.55e-03	-0.04	2.19e-05	7.41e-06	0.0
367	44	-3.43e-03	-1.27e-03	-0.04	2.32e-05	4.65e-06	0.0
367	68	-8.67e-04	-3.72e-03	-0.04	2.44e-05	5.58e-06	0.0
367	70	1.74e-04	-5.34e-04	-0.04	2.63e-05	7.15e-06	0.0
367	72	1.53e-04	-4.61e-04	-0.04	2.27e-05	6.29e-06	0.0
368	2	2.27e-04	3.15e-04	-0.05	-1.51e-05	9.28e-06	0.0
368	17	2.41e-03	8.93e-04	-0.03	-9.48e-06	6.71e-06	0.0
368	19	-2.11e-03	7.15e-04	-0.04	-1.01e-05	5.10e-06	0.0
368	31	-5.15e-04	2.25e-03	-0.03	-1.08e-05	5.65e-06	0.0
368	49	3.75e-03	1.30e-03	-0.03	-9.54e-06	7.18e-06	0.0
368	51	-3.45e-03	1.02e-03	-0.04	-1.05e-05	4.61e-06	0.0
368	63	-9.03e-04	3.47e-03	-0.04	-1.16e-05	5.49e-06	0.0
368	70	1.70e-04	2.35e-04	-0.04	-1.13e-05	6.97e-06	0.0
368	72	1.49e-04	2.03e-04	-0.03	-9.76e-06	6.13e-06	0.0
369	2	2.46e-04	1.35e-03	-0.05	-6.55e-05	1.03e-05	0.0
369	17	2.46e-03	1.53e-03	-0.04	-4.07e-05	7.57e-06	0.0
369	19	-2.10e-03	1.36e-03	-0.04	-4.18e-05	5.41e-06	0.0
369	31	-4.46e-04	2.91e-03	-0.04	-4.27e-05	6.12e-06	0.0
369	49	3.82e-03	1.95e-03	-0.04	-4.07e-05	8.18e-06	0.0
369	51	-3.44e-03	1.67e-03	-0.04	-4.25e-05	4.74e-06	0.0
369	63	-8.02e-04	4.13e-03	-0.04	-4.39e-05	5.87e-06	0.0
369	70	1.84e-04	1.01e-03	-0.04	-4.90e-05	7.71e-06	0.0
369	72	1.61e-04	8.68e-04	-0.04	-4.23e-05	6.78e-06	0.0
370	2	2.90e-04	2.39e-03	-0.05	-1.16e-04	1.26e-05	0.0
370	17	2.53e-03	2.18e-03	-0.04	-7.22e-05	9.53e-06	0.0
370	31	-3.64e-04	3.59e-03	-0.04	-7.57e-05	7.32e-06	0.0
370	35	-3.85e-04	3.53e-03	-0.04	-7.59e-05	7.18e-06	0.0
370	49	3.91e-03	2.60e-03	-0.04	-7.23e-05	1.04e-05	0.0
370	63	-6.87e-04	4.83e-03	-0.04	-7.79e-05	6.92e-06	0.0
370	67	-7.21e-04	4.74e-03	-0.04	-7.81e-05	6.69e-06	0.0
370	70	2.18e-04	1.78e-03	-0.04	-8.69e-05	9.44e-06	0.0
370	72	1.91e-04	1.54e-03	-0.04	-7.50e-05	8.29e-06	0.0
371	2	3.63e-04	3.44e-03	-0.06	-1.67e-04	1.64e-05	0.0
371	17	2.62e-03	2.84e-03	-0.04	-1.04e-04	1.29e-05	0.0
371	31	-2.67e-04	4.29e-03	-0.04	-1.10e-04	9.31e-06	0.0
371	35	-2.98e-04	4.23e-03	-0.04	-1.10e-04	9.06e-06	0.0
371	49	4.04e-03	3.26e-03	-0.04	-1.04e-04	1.43e-05	0.0
371	63	-5.61e-04	5.57e-03	-0.04	-1.14e-04	8.66e-06	0.0
371	67	-6.10e-04	5.48e-03	-0.04	-1.14e-04	8.26e-06	0.0
371	70	2.73e-04	2.57e-03	-0.05	-1.25e-04	1.23e-05	0.0
371	72	2.39e-04	2.21e-03	-0.04	-1.08e-04	1.08e-05	0.0
372	2	4.54e-04	4.48e-03	-0.07	-2.17e-04	2.16e-05	0.0
372	17	2.75e-03	3.50e-03	-0.05	-1.35e-04	1.79e-05	0.0
372	31	-1.58e-04	5.01e-03	-0.05	-1.44e-04	1.38e-05	0.0
372	35	-1.99e-04	4.96e-03	-0.05	-1.44e-04	1.34e-05	0.0
372	49	4.19e-03	3.94e-03	-0.05	-1.36e-04	2.03e-05	0.0
372	63	-4.21e-04	6.33e-03	-0.05	-1.50e-04	1.38e-05	0.0
372	67	-4.87e-04	6.25e-03	-0.05	-1.51e-04	1.31e-05	0.0
372	70	3.41e-04	3.35e-03	-0.05	-1.62e-04	1.62e-05	0.0
372	72	2.99e-04	2.88e-03	-0.05	-1.40e-04	1.42e-05	0.0
373	2	2.69e-04	5.60e-03	-0.08	-2.69e-04	1.95e-05	0.0
373	17	2.75e-03	4.08e-03	-0.06	-1.68e-04	1.98e-05	0.0
373	31	-2.62e-04	5.83e-03	-0.06	-1.83e-04	9.36e-06	0.0
373	35	-3.20e-04	5.81e-03	-0.06	-1.83e-04	8.60e-06	0.0
373	49	4.27e-03	4.46e-03	-0.06	-1.69e-04	2.40e-05	0.0
373	63	-5.26e-04	7.24e-03	-0.06	-1.93e-04	7.31e-06	0.0
373	67	-6.19e-04	7.21e-03	-0.06	-1.93e-04	6.09e-06	0.0
373	70	2.04e-04	4.18e-03	-0.06	-2.01e-04	1.47e-05	0.0
373	72	1.90e-04	3.59e-03	-0.06	-1.72e-04	1.32e-05	0.0
374	2	1.06e-03	6.27e-03	-0.10	-2.98e-04	5.37e-05	0.0
374	17	3.27e-03	4.68e-03	-0.07	-1.89e-04	4.44e-05	0.0
374	33	1.79e-03	6.43e-03	-0.07	-2.09e-04	3.92e-05	0.0

374	35	2.89e-04	6.37e-03	-0.07	-2.09e-04	3.32e-05	0.0
374	49	4.81e-03	5.20e-03	-0.07	-1.93e-04	5.08e-05	0.0
374	65	2.45e-03	7.97e-03	-0.07	-2.25e-04	4.24e-05	0.0
374	67	6.64e-05	7.88e-03	-0.07	-2.26e-04	3.28e-05	0.0
374	70	7.97e-04	4.68e-03	-0.07	-2.22e-04	4.03e-05	0.0
374	72	6.93e-04	3.99e-03	-0.07	-1.90e-04	3.50e-05	0.0
375	2	3.30e-04	-5.85e-03	-0.09	2.84e-04	1.59e-05	0.0
375	10	2.88e-03	-4.38e-03	-0.06	1.79e-04	2.17e-05	0.0
375	32	-2.65e-04	-5.97e-03	-0.06	1.95e-04	8.29e-06	0.0
375	36	-1.99e-04	-6.01e-03	-0.06	1.95e-04	9.39e-06	0.0
375	42	4.46e-03	-4.84e-03	-0.06	1.82e-04	2.84e-05	0.0
375	64	-5.48e-04	-7.37e-03	-0.06	2.08e-04	7.11e-06	0.0
375	68	-4.42e-04	-7.45e-03	-0.06	2.07e-04	8.87e-06	0.0
375	70	2.48e-04	-4.37e-03	-0.07	2.12e-04	1.20e-05	0.0
375	72	2.21e-04	-3.74e-03	-0.06	1.82e-04	1.06e-05	0.0
376	2	3.21e-04	-4.93e-03	-0.07	2.38e-04	1.42e-05	0.0
376	10	2.69e-03	-3.79e-03	-0.05	1.50e-04	1.41e-05	0.0
376	32	-2.67e-04	-5.27e-03	-0.05	1.60e-04	8.40e-06	0.0
376	36	-2.24e-04	-5.32e-03	-0.05	1.60e-04	8.87e-06	0.0
376	42	4.15e-03	-4.23e-03	-0.05	1.51e-04	1.70e-05	0.0
376	64	-5.44e-04	-6.59e-03	-0.05	1.67e-04	8.03e-06	0.0
376	68	-4.76e-04	-6.67e-03	-0.05	1.67e-04	8.79e-06	0.0
376	70	2.41e-04	-3.69e-03	-0.06	1.78e-04	1.07e-05	0.0
376	72	2.11e-04	-3.17e-03	-0.05	1.53e-04	9.34e-06	0.0
377	2	2.71e-04	-3.88e-03	-0.06	1.89e-04	1.17e-05	0.0
377	10	2.59e-03	-3.12e-03	-0.05	1.18e-04	1.08e-05	0.0
377	32	-3.37e-04	-4.52e-03	-0.05	1.25e-04	6.99e-06	0.0
377	36	-3.05e-04	-4.57e-03	-0.05	1.24e-04	7.31e-06	0.0
377	42	4.01e-03	-3.54e-03	-0.05	1.19e-04	1.29e-05	0.0
377	64	-6.38e-04	-5.77e-03	-0.05	1.29e-04	6.75e-06	0.0
377	68	-5.86e-04	-5.85e-03	-0.05	1.29e-04	7.26e-06	0.0
377	70	2.03e-04	-2.90e-03	-0.05	1.41e-04	8.75e-06	0.0
377	72	1.78e-04	-2.50e-03	-0.05	1.22e-04	7.67e-06	0.0
378	2	2.34e-04	-2.82e-03	-0.06	1.38e-04	9.71e-06	0.0
378	10	2.51e-03	-2.45e-03	-0.04	8.60e-05	8.28e-06	0.0
378	32	-4.02e-04	-3.80e-03	-0.04	9.00e-05	5.91e-06	0.0
378	36	-3.80e-04	-3.85e-03	-0.04	8.99e-05	6.09e-06	0.0
378	42	3.90e-03	-2.86e-03	-0.04	8.64e-05	9.53e-06	0.0
378	64	-7.26e-04	-5.02e-03	-0.04	9.28e-05	5.76e-06	0.0
378	68	-6.91e-04	-5.10e-03	-0.04	9.26e-05	6.05e-06	0.0
378	70	1.75e-04	-2.11e-03	-0.04	1.03e-04	7.29e-06	0.0
378	72	1.53e-04	-1.82e-03	-0.04	8.88e-05	6.39e-06	0.0
379	2	2.07e-04	-1.76e-03	-0.05	8.64e-05	8.32e-06	0.0
379	10	2.44e-03	-1.79e-03	-0.04	5.39e-05	6.66e-06	0.0
379	32	-4.64e-04	-3.11e-03	-0.04	5.63e-05	5.08e-06	0.0
379	36	-4.51e-04	-3.16e-03	-0.04	5.62e-05	5.18e-06	0.0
379	42	3.81e-03	-2.20e-03	-0.04	5.40e-05	7.47e-06	0.0
379	64	-8.15e-04	-4.30e-03	-0.04	5.79e-05	4.96e-06	0.0
379	68	-7.94e-04	-4.38e-03	-0.04	5.77e-05	5.11e-06	0.0
379	70	1.55e-04	-1.32e-03	-0.04	6.46e-05	6.24e-06	0.0
379	72	1.35e-04	-1.14e-03	-0.04	5.58e-05	5.47e-06	0.0
380	2	1.91e-04	-7.20e-04	-0.05	3.55e-05	7.54e-06	0.0
380	10	2.40e-03	-1.14e-03	-0.04	2.22e-05	5.76e-06	0.0
380	12	-2.13e-03	-9.66e-04	-0.04	2.28e-05	3.87e-06	0.0
380	36	-5.18e-04	-2.49e-03	-0.04	2.36e-05	4.61e-06	0.0
380	42	3.74e-03	-1.54e-03	-0.04	2.23e-05	6.33e-06	0.0
380	44	-3.46e-03	-1.27e-03	-0.04	2.32e-05	3.32e-06	0.0
380	68	-8.94e-04	-3.70e-03	-0.04	2.45e-05	4.51e-06	0.0
380	70	1.43e-04	-5.38e-04	-0.04	2.65e-05	5.66e-06	0.0
380	72	1.25e-04	-4.64e-04	-0.04	2.29e-05	4.96e-06	0.0
381	2	1.88e-04	3.18e-04	-0.05	-1.52e-05	7.41e-06	0.0
381	17	2.39e-03	8.86e-04	-0.03	-9.62e-06	5.60e-06	0.0
381	19	-2.14e-03	7.17e-04	-0.04	-1.01e-05	3.84e-06	0.0
381	31	-5.40e-04	2.24e-03	-0.04	-1.08e-05	4.50e-06	0.0
381	49	3.73e-03	1.29e-03	-0.03	-9.72e-06	6.12e-06	0.0
381	51	-3.47e-03	1.02e-03	-0.04	-1.05e-05	3.33e-06	0.0
381	63	-9.28e-04	3.44e-03	-0.04	-1.16e-05	4.38e-06	0.0
381	70	1.41e-04	2.38e-04	-0.04	-1.14e-05	5.56e-06	0.0
381	72	1.23e-04	2.05e-04	-0.04	-9.84e-06	4.88e-06	0.0
382	2	1.97e-04	1.36e-03	-0.05	-6.60e-05	7.95e-06	0.0
382	17	2.43e-03	1.53e-03	-0.04	-4.12e-05	6.26e-06	0.0
382	19	-2.14e-03	1.37e-03	-0.04	-4.20e-05	3.93e-06	0.0
382	31	-4.77e-04	2.90e-03	-0.04	-4.30e-05	4.92e-06	0.0
382	49	3.79e-03	1.94e-03	-0.04	-4.13e-05	6.97e-06	0.0
382	51	-3.47e-03	1.68e-03	-0.04	-4.26e-05	3.27e-06	0.0
382	63	-8.32e-04	4.11e-03	-0.04	-4.42e-05	4.85e-06	0.0

382	70	1.48e-04	1.02e-03	-0.04	-4.94e-05	5.97e-06	0.0
382	72	1.29e-04	8.76e-04	-0.04	-4.26e-05	5.23e-06	0.0
383	2	2.18e-04	2.41e-03	-0.05	-1.17e-04	9.11e-06	0.0
383	17	2.48e-03	2.19e-03	-0.04	-7.31e-05	7.62e-06	0.0
383	31	-4.09e-04	3.58e-03	-0.04	-7.63e-05	5.70e-06	0.0
383	35	-4.30e-04	3.53e-03	-0.04	-7.64e-05	5.55e-06	0.0
383	49	3.87e-03	2.60e-03	-0.04	-7.34e-05	8.70e-06	0.0
383	63	-7.31e-04	4.82e-03	-0.04	-7.84e-05	5.66e-06	0.0
383	67	-7.65e-04	4.73e-03	-0.04	-7.86e-05	5.41e-06	0.0
383	70	1.64e-04	1.80e-03	-0.04	-8.76e-05	6.84e-06	0.0
383	72	1.43e-04	1.55e-03	-0.04	-7.56e-05	5.99e-06	0.0
384	2	2.50e-04	3.47e-03	-0.06	-1.68e-04	1.08e-05	0.0
384	17	2.56e-03	2.86e-03	-0.04	-1.05e-04	9.78e-06	0.0
384	31	-3.36e-04	4.29e-03	-0.04	-1.10e-04	6.81e-06	0.0
384	35	-3.68e-04	4.24e-03	-0.04	-1.11e-04	6.54e-06	0.0
384	49	3.97e-03	3.28e-03	-0.04	-1.06e-04	1.15e-05	0.0
384	63	-6.28e-04	5.56e-03	-0.04	-1.14e-04	6.76e-06	0.0
384	67	-6.78e-04	5.48e-03	-0.04	-1.14e-04	6.34e-06	0.0
384	70	1.87e-04	2.59e-03	-0.05	-1.26e-04	8.14e-06	0.0
384	72	1.64e-04	2.23e-03	-0.04	-1.09e-04	7.13e-06	0.0
385	2	2.91e-04	4.53e-03	-0.07	-2.19e-04	1.30e-05	0.0
385	17	2.65e-03	3.53e-03	-0.05	-1.37e-04	1.28e-05	0.0
385	31	-2.60e-04	5.03e-03	-0.05	-1.46e-04	8.14e-06	0.0
385	35	-3.02e-04	4.98e-03	-0.05	-1.46e-04	7.71e-06	0.0
385	49	4.10e-03	3.97e-03	-0.05	-1.39e-04	1.55e-05	0.0
385	63	-5.22e-04	6.35e-03	-0.05	-1.52e-04	8.05e-06	0.0
385	67	-5.89e-04	6.27e-03	-0.05	-1.52e-04	7.36e-06	0.0
385	70	2.18e-04	3.39e-03	-0.05	-1.64e-04	9.79e-06	0.0
385	72	1.91e-04	2.91e-03	-0.05	-1.41e-04	8.58e-06	0.0
386	2	2.75e-04	5.51e-03	-0.08	-2.67e-04	1.38e-05	0.0
386	17	2.78e-03	4.15e-03	-0.06	-1.68e-04	1.72e-05	0.0
386	31	-2.42e-04	5.73e-03	-0.06	-1.80e-04	8.55e-06	0.0
386	35	-3.02e-04	5.68e-03	-0.06	-1.80e-04	7.76e-06	0.0
386	49	4.31e-03	4.60e-03	-0.06	-1.70e-04	2.21e-05	0.0
386	63	-4.90e-04	7.12e-03	-0.06	-1.89e-04	8.33e-06	0.0
386	67	-5.86e-04	7.04e-03	-0.06	-1.90e-04	7.06e-06	0.0
386	70	2.07e-04	4.11e-03	-0.06	-1.99e-04	1.04e-05	0.0
386	72	1.85e-04	3.53e-03	-0.06	-1.71e-04	9.23e-06	0.0
387	2	-4.27e-04	-6.10e-03	-0.10	2.92e-04	-2.52e-05	0.0
387	11	-2.84e-03	-2.89e-03	-0.07	1.71e-04	-2.35e-05	0.0
387	34	7.38e-04	-6.20e-03	-0.07	2.03e-04	-1.61e-05	0.0
387	36	-6.34e-04	-6.25e-03	-0.07	2.03e-04	-1.96e-05	0.0
387	43	-4.36e-03	-2.41e-03	-0.06	1.67e-04	-2.82e-05	0.0
387	66	1.33e-03	-7.66e-03	-0.07	2.18e-04	-1.65e-05	0.0
387	68	-8.52e-04	-7.74e-03	-0.07	2.18e-04	-2.19e-05	0.0
387	70	-3.20e-04	-4.55e-03	-0.07	2.18e-04	-1.89e-05	0.0
387	72	-2.75e-04	-3.88e-03	-0.07	1.86e-04	-1.62e-05	0.0
388	2	1.18e-04	-6.08e-03	-0.09	2.89e-04	-3.44e-06	0.0
388	10	2.67e-03	-4.56e-03	-0.06	1.85e-04	6.37e-06	0.0
388	30	1.16e-03	-6.18e-03	-0.06	1.99e-04	1.54e-06	0.0
388	32	-3.45e-04	-6.11e-03	-0.06	1.98e-04	-3.47e-06	0.0
388	42	4.21e-03	-5.05e-03	-0.06	1.89e-04	1.16e-05	0.0
388	62	1.80e-03	-7.62e-03	-0.06	2.12e-04	3.89e-06	0.0
388	64	-5.86e-04	-7.52e-03	-0.06	2.11e-04	-4.09e-06	0.0
388	70	8.72e-05	-4.54e-03	-0.07	2.16e-04	-2.61e-06	0.0
388	72	6.89e-05	-3.89e-03	-0.06	1.85e-04	-2.47e-06	0.0
389	2	-1.70e-05	-4.90e-03	-0.07	2.37e-04	-2.89e-06	0.0
389	11	-2.49e-03	-2.27e-03	-0.05	1.42e-04	-6.70e-06	0.0
389	30	9.66e-04	-5.26e-03	-0.05	1.58e-04	0.0	0.0
389	32	-4.77e-04	-5.21e-03	-0.05	1.58e-04	-2.41e-06	0.0
389	43	-3.96e-03	-1.82e-03	-0.05	1.40e-04	-9.55e-06	0.0
389	62	1.54e-03	-6.59e-03	-0.05	1.66e-04	1.63e-06	0.0
389	64	-7.51e-04	-6.51e-03	-0.05	1.65e-04	-2.74e-06	0.0
389	70	-1.29e-05	-3.66e-03	-0.06	1.77e-04	-2.18e-06	0.0
389	72	-1.20e-05	-3.14e-03	-0.05	1.52e-04	-1.93e-06	0.0
390	2	5.86e-05	-3.87e-03	-0.06	1.88e-04	1.28e-06	0.0
390	10	2.45e-03	-3.11e-03	-0.05	1.19e-04	4.05e-06	0.0
390	30	9.48e-04	-4.54e-03	-0.05	1.24e-04	2.34e-06	0.0
390	32	-4.65e-04	-4.49e-03	-0.05	1.24e-04	0.0	0.0
390	42	3.88e-03	-3.53e-03	-0.05	1.20e-04	5.98e-06	0.0
390	62	1.49e-03	-5.81e-03	-0.05	1.29e-04	3.26e-06	0.0
390	64	-7.60e-04	-5.73e-03	-0.05	1.29e-04	0.0	0.0
390	70	4.38e-05	-2.89e-03	-0.05	1.41e-04	0.0	0.0
390	72	3.77e-05	-2.49e-03	-0.05	1.21e-04	0.0	0.0
391	2	1.02e-04	-2.82e-03	-0.06	1.38e-04	3.36e-06	0.0
391	10	2.42e-03	-2.44e-03	-0.04	8.65e-05	4.18e-06	0.0

391	32	-4.82e-04	-3.78e-03	-0.04	8.99e-05	1.89e-06	0.0
391	36	-4.60e-04	-3.83e-03	-0.04	8.99e-05	2.06e-06	0.0
391	42	3.82e-03	-2.85e-03	-0.04	8.72e-05	5.41e-06	0.0
391	64	-8.04e-04	-4.98e-03	-0.04	9.26e-05	1.76e-06	0.0
391	68	-7.69e-04	-5.06e-03	-0.04	9.26e-05	2.04e-06	0.0
391	70	7.63e-05	-2.11e-03	-0.04	1.03e-04	2.52e-06	0.0
391	72	6.61e-05	-1.82e-03	-0.04	8.89e-05	2.18e-06	0.0
392	2	1.21e-04	-1.77e-03	-0.05	8.66e-05	4.21e-06	0.0
392	10	2.39e-03	-1.78e-03	-0.04	5.43e-05	4.02e-06	0.0
392	32	-5.17e-04	-3.09e-03	-0.04	5.63e-05	2.46e-06	0.0
392	36	-5.04e-04	-3.14e-03	-0.04	5.63e-05	2.55e-06	0.0
392	42	3.76e-03	-2.18e-03	-0.04	5.46e-05	4.83e-06	0.0
392	64	-8.67e-04	-4.27e-03	-0.04	5.79e-05	2.35e-06	0.0
392	68	-8.46e-04	-4.34e-03	-0.04	5.78e-05	2.50e-06	0.0
392	70	9.06e-05	-1.32e-03	-0.04	6.47e-05	3.16e-06	0.0
392	72	7.85e-05	-1.14e-03	-0.04	5.59e-05	2.75e-06	0.0
393	2	1.28e-04	-7.21e-04	-0.05	3.56e-05	4.51e-06	0.0
393	10	2.36e-03	-1.12e-03	-0.04	2.24e-05	3.82e-06	0.0
393	12	-2.18e-03	-9.66e-04	-0.04	2.27e-05	1.90e-06	0.0
393	30	7.98e-04	-2.47e-03	-0.04	2.36e-05	3.20e-06	0.0
393	42	3.70e-03	-1.52e-03	-0.04	2.26e-05	4.40e-06	0.0
393	44	-3.51e-03	-1.27e-03	-0.04	2.31e-05	1.34e-06	0.0
393	62	1.22e-03	-3.66e-03	-0.04	2.45e-05	3.42e-06	0.0
393	70	9.56e-05	-5.39e-04	-0.04	2.66e-05	3.38e-06	0.0
393	72	8.29e-05	-4.65e-04	-0.04	2.30e-05	2.94e-06	0.0
394	2	1.28e-04	3.19e-04	-0.05	-1.53e-05	4.56e-06	0.0
394	17	2.35e-03	8.74e-04	-0.04	-9.77e-06	3.77e-06	0.0
394	19	-2.18e-03	7.17e-04	-0.04	-1.00e-05	1.98e-06	0.0
394	31	-5.78e-04	2.21e-03	-0.04	-1.09e-05	2.65e-06	0.0
394	49	3.69e-03	1.27e-03	-0.04	-9.93e-06	4.31e-06	0.0
394	51	-3.51e-03	1.02e-03	-0.04	-1.04e-05	1.46e-06	0.0
394	63	-9.67e-04	3.40e-03	-0.04	-1.17e-05	2.52e-06	0.0
394	70	9.59e-05	2.39e-04	-0.04	-1.14e-05	3.42e-06	0.0
394	72	8.32e-05	2.06e-04	-0.04	-9.87e-06	2.98e-06	0.0
395	2	1.23e-04	1.36e-03	-0.05	-6.62e-05	4.42e-06	0.0
395	17	2.38e-03	1.52e-03	-0.04	-4.15e-05	3.99e-06	0.0
395	31	-5.23e-04	2.87e-03	-0.04	-4.32e-05	2.66e-06	0.0
395	35	-5.35e-04	2.83e-03	-0.04	-4.32e-05	2.58e-06	0.0
395	49	3.74e-03	1.92e-03	-0.04	-4.18e-05	4.71e-06	0.0
395	63	-8.77e-04	4.07e-03	-0.04	-4.44e-05	2.59e-06	0.0
395	67	-8.97e-04	4.00e-03	-0.04	-4.44e-05	2.47e-06	0.0
395	70	9.24e-05	1.02e-03	-0.04	-4.95e-05	3.32e-06	0.0
395	72	8.01e-05	8.78e-04	-0.04	-4.27e-05	2.88e-06	0.0
396	2	1.10e-04	2.41e-03	-0.05	-1.17e-04	3.90e-06	0.0
396	17	2.42e-03	2.18e-03	-0.04	-7.36e-05	4.24e-06	0.0
396	31	-4.75e-04	3.56e-03	-0.04	-7.64e-05	2.39e-06	0.0
396	35	-4.96e-04	3.51e-03	-0.04	-7.64e-05	2.24e-06	0.0
396	49	3.80e-03	2.59e-03	-0.04	-7.42e-05	5.31e-06	0.0
396	63	-7.95e-04	4.78e-03	-0.04	-7.85e-05	2.35e-06	0.0
396	67	-8.29e-04	4.70e-03	-0.04	-7.85e-05	2.12e-06	0.0
396	70	8.22e-05	1.80e-03	-0.04	-8.77e-05	2.92e-06	0.0
396	72	7.12e-05	1.55e-03	-0.04	-7.57e-05	2.54e-06	0.0
397	2	7.92e-05	3.46e-03	-0.06	-1.68e-04	2.54e-06	0.0
397	17	2.45e-03	2.85e-03	-0.04	-1.06e-04	4.39e-06	0.0
397	31	-4.39e-04	4.26e-03	-0.04	-1.10e-04	1.56e-06	0.0
397	35	-4.70e-04	4.21e-03	-0.04	-1.10e-04	1.31e-06	0.0
397	49	3.86e-03	3.26e-03	-0.04	-1.07e-04	6.05e-06	0.0
397	63	-7.27e-04	5.51e-03	-0.04	-1.14e-04	1.55e-06	0.0
397	67	-7.76e-04	5.44e-03	-0.04	-1.14e-04	1.15e-06	0.0
397	70	5.93e-05	2.59e-03	-0.05	-1.26e-04	1.90e-06	0.0
397	72	5.13e-05	2.23e-03	-0.04	-1.08e-04	1.64e-06	0.0
398	2	3.28e-05	4.51e-03	-0.07	-2.18e-04	0.0	0.0
398	17	2.48e-03	3.52e-03	-0.05	-1.38e-04	4.11e-06	0.0
398	33	9.73e-04	4.98e-03	-0.05	-1.45e-04	1.87e-06	0.0
398	35	-4.61e-04	4.94e-03	-0.05	-1.45e-04	0.0	0.0
398	49	3.93e-03	3.95e-03	-0.05	-1.40e-04	6.57e-06	0.0
398	65	1.54e-03	6.28e-03	-0.05	-1.51e-04	3.02e-06	0.0
398	67	-7.44e-04	6.21e-03	-0.05	-1.51e-04	0.0	0.0
398	70	2.44e-05	3.37e-03	-0.05	-1.63e-04	0.0	0.0
398	72	2.06e-05	2.90e-03	-0.05	-1.40e-04	0.0	0.0
399	2	2.31e-04	5.67e-03	-0.08	-2.71e-04	3.40e-06	0.0
399	17	2.71e-03	4.28e-03	-0.06	-1.73e-04	9.32e-06	0.0
399	33	1.20e-03	5.84e-03	-0.06	-1.84e-04	5.59e-06	0.0
399	35	-2.83e-04	5.78e-03	-0.06	-1.84e-04	1.39e-06	0.0
399	49	4.23e-03	4.75e-03	-0.06	-1.76e-04	1.37e-05	0.0
399	65	1.83e-03	7.23e-03	-0.06	-1.95e-04	7.81e-06	0.0

399	67	-5.30e-04	7.14e-03	-0.06	-1.94e-04	1.14e-06	0.0
399	70	1.72e-04	4.24e-03	-0.06	-2.03e-04	2.51e-06	0.0
399	72	1.43e-04	3.63e-03	-0.06	-1.74e-04	1.96e-06	0.0
400	2	-4.65e-04	6.16e-03	-0.10	-2.93e-04	-2.60e-05	0.0
400	20	-2.86e-03	3.04e-03	-0.07	-1.72e-04	-2.37e-05	0.0
400	29	7.06e-04	6.24e-03	-0.07	-2.04e-04	-1.68e-05	0.0
400	31	-6.56e-04	6.29e-03	-0.07	-2.05e-04	-2.02e-05	0.0
400	52	-4.37e-03	2.63e-03	-0.06	-1.68e-04	-2.82e-05	0.0
400	61	1.29e-03	7.71e-03	-0.07	-2.19e-04	-1.73e-05	0.0
400	63	-8.74e-04	7.79e-03	-0.07	-2.20e-04	-2.26e-05	0.0
400	70	-3.48e-04	4.60e-03	-0.07	-2.19e-04	-1.94e-05	0.0
400	72	-2.99e-04	3.92e-03	-0.07	-1.87e-04	-1.67e-05	0.0
401	2	-1.04e-03	-5.28e-03	-0.09	2.58e-04	-5.70e-05	0.0
401	11	-3.13e-03	-2.46e-03	-0.06	1.51e-04	-3.71e-05	0.0
401	30	3.66e-04	-5.57e-03	-0.07	1.77e-04	-3.85e-05	0.0
401	43	-4.60e-03	-2.00e-03	-0.06	1.47e-04	-3.82e-05	0.0
401	62	9.64e-04	-6.95e-03	-0.07	1.89e-04	-4.02e-05	0.0
401	70	-7.80e-04	-3.95e-03	-0.07	1.93e-04	-4.27e-05	0.0
401	72	-6.74e-04	-3.38e-03	-0.07	1.65e-04	-3.69e-05	0.0
402	2	-8.00e-04	-5.16e-03	-0.09	2.52e-04	-4.40e-05	0.0
402	11	-2.96e-03	-2.40e-03	-0.06	1.49e-04	-2.93e-05	0.0
402	30	4.99e-04	-5.47e-03	-0.06	1.72e-04	-2.89e-05	0.0
402	43	-4.41e-03	-1.95e-03	-0.06	1.45e-04	-3.03e-05	0.0
402	62	1.09e-03	-6.82e-03	-0.06	1.82e-04	-2.97e-05	0.0
402	70	-5.99e-04	-3.85e-03	-0.06	1.88e-04	-3.30e-05	0.0
402	72	-5.20e-04	-3.30e-03	-0.06	1.62e-04	-2.86e-05	0.0
403	2	-4.50e-04	-4.56e-03	-0.07	2.23e-04	-2.44e-05	0.0
403	11	-2.72e-03	-2.06e-03	-0.05	1.33e-04	-1.81e-05	0.0
403	30	6.85e-04	-5.02e-03	-0.05	1.51e-04	-1.39e-05	0.0
403	43	-4.16e-03	-1.63e-03	-0.05	1.29e-04	-1.97e-05	0.0
403	62	1.26e-03	-6.32e-03	-0.05	1.58e-04	-1.29e-05	0.0
403	70	-3.38e-04	-3.41e-03	-0.06	1.67e-04	-1.83e-05	0.0
403	72	-2.95e-04	-2.93e-03	-0.05	1.44e-04	-1.60e-05	0.0
404	2	-2.10e-04	-3.71e-03	-0.06	1.82e-04	-1.19e-05	0.0
404	11	-2.53e-03	-1.58e-03	-0.05	1.09e-04	-9.75e-06	0.0
404	30	7.75e-04	-4.40e-03	-0.05	1.20e-04	-6.32e-06	0.0
404	43	-3.94e-03	-1.16e-03	-0.05	1.07e-04	-1.10e-05	0.0
404	62	1.31e-03	-5.65e-03	-0.05	1.25e-04	-5.54e-06	0.0
404	70	-1.58e-04	-2.77e-03	-0.05	1.36e-04	-8.97e-06	0.0
404	72	-1.39e-04	-2.38e-03	-0.05	1.17e-04	-7.90e-06	0.0
405	2	-7.01e-05	-2.74e-03	-0.06	1.34e-04	-5.02e-06	0.0
405	11	-2.40e-03	-1.01e-03	-0.04	8.13e-05	-4.78e-06	0.0
405	30	7.98e-04	-3.74e-03	-0.04	8.80e-05	-2.34e-06	0.0
405	36	-5.64e-04	-3.74e-03	-0.04	8.78e-05	-3.05e-06	0.0
405	43	-3.78e-03	-6.07e-04	-0.04	8.01e-05	-5.68e-06	0.0
405	62	1.30e-03	-4.95e-03	-0.04	9.09e-05	-1.80e-06	0.0
405	68	-8.69e-04	-4.94e-03	-0.04	9.04e-05	-2.93e-06	0.0
405	70	-5.29e-05	-2.05e-03	-0.04	1.00e-04	-3.78e-06	0.0
405	72	-4.76e-05	-1.76e-03	-0.04	8.66e-05	-3.36e-06	0.0
406	2	5.69e-06	-1.73e-03	-0.05	8.50e-05	-1.36e-06	0.0
406	10	2.31e-03	-1.73e-03	-0.04	5.37e-05	0.0	0.0
406	30	7.83e-04	-3.07e-03	-0.04	5.55e-05	0.0	0.0
406	32	-5.87e-04	-3.03e-03	-0.04	5.53e-05	0.0	0.0
406	42	3.68e-03	-2.13e-03	-0.04	5.43e-05	0.0	0.0
406	62	1.24e-03	-4.26e-03	-0.04	5.71e-05	0.0	0.0
406	64	-9.34e-04	-4.19e-03	-0.04	5.69e-05	0.0	0.0
406	70	3.96e-06	-1.29e-03	-0.04	6.35e-05	-1.03e-06	0.0
406	72	2.07e-06	-1.11e-03	-0.04	5.48e-05	0.0	0.0
407	2	4.02e-05	-7.07e-04	-0.05	3.50e-05	0.0	0.0
407	10	2.30e-03	-1.09e-03	-0.04	2.23e-05	0.0	0.0
407	30	7.42e-04	-2.42e-03	-0.04	2.34e-05	0.0	0.0
407	32	-6.16e-04	-2.38e-03	-0.04	2.34e-05	0.0	0.0
407	42	3.64e-03	-1.48e-03	-0.04	2.26e-05	1.39e-06	0.0
407	62	1.17e-03	-3.59e-03	-0.04	2.44e-05	0.0	0.0
407	64	-9.94e-04	-3.52e-03	-0.04	2.44e-05	0.0	0.0
407	70	2.98e-05	-5.28e-04	-0.04	2.62e-05	0.0	0.0
407	72	2.47e-05	-4.56e-04	-0.04	2.26e-05	0.0	0.0
408	2	4.51e-05	3.15e-04	-0.05	-1.51e-05	0.0	0.0
408	17	2.30e-03	8.49e-04	-0.04	-9.85e-06	1.02e-06	0.0
408	19	-2.23e-03	7.15e-04	-0.04	-9.78e-06	0.0	0.0
408	31	-6.31e-04	2.17e-03	-0.04	-1.09e-05	0.0	0.0
408	49	3.63e-03	1.24e-03	-0.04	-1.01e-05	1.46e-06	0.0
408	51	-3.56e-03	1.02e-03	-0.04	-1.00e-05	0.0	0.0
408	63	-1.02e-03	3.34e-03	-0.04	-1.18e-05	0.0	0.0
408	70	3.36e-05	2.35e-04	-0.04	-1.13e-05	0.0	0.0
408	72	2.80e-05	2.03e-04	-0.04	-9.74e-06	0.0	0.0

409	2	2.26e-05	1.34e-03	-0.05	-6.51e-05	0.0	0.0
409	17	2.31e-03	1.49e-03	-0.04	-4.12e-05	0.0	0.0
409	33	7.71e-04	2.82e-03	-0.04	-4.26e-05	0.0	0.0
409	35	-5.97e-04	2.78e-03	-0.04	-4.25e-05	0.0	0.0
409	49	3.67e-03	1.88e-03	-0.04	-4.17e-05	1.18e-06	0.0
409	65	1.22e-03	3.99e-03	-0.04	-4.39e-05	0.0	0.0
409	67	-9.56e-04	3.93e-03	-0.04	-4.38e-05	0.0	0.0
409	70	1.67e-05	9.99e-04	-0.04	-4.87e-05	0.0	0.0
409	72	1.32e-05	8.61e-04	-0.04	-4.20e-05	0.0	0.0
410	2	-3.48e-05	2.35e-03	-0.05	-1.15e-04	-3.11e-06	0.0
410	20	-2.36e-03	7.80e-04	-0.04	-6.96e-05	-3.40e-06	0.0
410	33	7.98e-04	3.48e-03	-0.04	-7.50e-05	-1.27e-06	0.0
410	35	-5.83e-04	3.44e-03	-0.04	-7.48e-05	-2.00e-06	0.0
410	52	-3.74e-03	3.83e-04	-0.04	-6.87e-05	-4.20e-06	0.0
410	65	1.28e-03	4.68e-03	-0.04	-7.73e-05	0.0	0.0
410	67	-9.12e-04	4.61e-03	-0.04	-7.69e-05	-1.96e-06	0.0
410	70	-2.64e-05	1.76e-03	-0.04	-8.58e-05	-2.35e-06	0.0
410	72	-2.44e-05	1.51e-03	-0.04	-7.41e-05	-2.12e-06	0.0
411	2	-1.45e-04	3.34e-03	-0.06	-1.63e-04	-8.46e-06	0.0
411	20	-2.48e-03	1.37e-03	-0.04	-9.82e-05	-7.32e-06	0.0
411	33	7.93e-04	4.15e-03	-0.04	-1.08e-04	-4.26e-06	0.0
411	52	-3.88e-03	9.58e-04	-0.04	-9.66e-05	-8.43e-06	0.0
411	65	1.32e-03	5.38e-03	-0.04	-1.12e-04	-3.57e-06	0.0
411	70	-1.09e-04	2.50e-03	-0.05	-1.22e-04	-6.36e-06	0.0
411	72	-9.65e-05	2.15e-03	-0.04	-1.05e-04	-5.62e-06	0.0
412	2	-3.38e-04	4.25e-03	-0.07	-2.08e-04	-1.84e-05	0.0
412	20	-2.64e-03	1.90e-03	-0.05	-1.24e-04	-1.42e-05	0.0
412	33	7.36e-04	4.79e-03	-0.05	-1.39e-04	-1.02e-05	0.0
412	52	-4.07e-03	1.47e-03	-0.05	-1.21e-04	-1.56e-05	0.0
412	65	1.30e-03	6.07e-03	-0.05	-1.45e-04	-9.25e-06	0.0
412	70	-2.54e-04	3.18e-03	-0.05	-1.55e-04	-1.38e-05	0.0
412	72	-2.22e-04	2.73e-03	-0.05	-1.34e-04	-1.21e-05	0.0
413	2	-6.51e-04	4.98e-03	-0.08	-2.43e-04	-3.54e-05	0.0
413	20	-2.86e-03	2.30e-03	-0.06	-1.43e-04	-2.42e-05	0.0
413	33	5.84e-04	5.33e-03	-0.06	-1.65e-04	-2.28e-05	0.0
413	52	-4.31e-03	1.86e-03	-0.06	-1.40e-04	-2.54e-05	0.0
413	65	1.17e-03	6.67e-03	-0.06	-1.74e-04	-2.31e-05	0.0
413	70	-4.88e-04	3.72e-03	-0.06	-1.81e-04	-2.66e-05	0.0
413	72	-4.25e-04	3.19e-03	-0.06	-1.56e-04	-2.31e-05	0.0
414	2	-1.07e-03	5.28e-03	-0.09	-2.57e-04	-5.73e-05	0.0
414	20	-3.15e-03	2.47e-03	-0.06	-1.51e-04	-3.72e-05	0.0
414	33	3.45e-04	5.56e-03	-0.07	-1.77e-04	-3.87e-05	0.0
414	52	-4.61e-03	2.02e-03	-0.06	-1.47e-04	-3.82e-05	0.0
414	65	9.41e-04	6.94e-03	-0.07	-1.88e-04	-4.06e-05	0.0
414	70	-8.02e-04	3.94e-03	-0.07	-1.92e-04	-4.29e-05	0.0
414	72	-6.92e-04	3.38e-03	-0.07	-1.65e-04	-3.71e-05	0.0
415	2	-1.04e-03	-4.79e-03	-0.09	2.36e-04	-5.61e-05	0.0
415	11	-3.05e-03	-2.20e-03	-0.06	1.39e-04	-3.28e-05	0.0
415	22	-1.86e-04	-5.23e-03	-0.06	1.61e-04	-3.73e-05	0.0
415	30	3.25e-04	-5.17e-03	-0.06	1.61e-04	-3.98e-05	0.0
415	43	-4.47e-03	-1.77e-03	-0.06	1.35e-04	-3.16e-05	0.0
415	54	8.89e-05	-6.59e-03	-0.07	1.70e-04	-3.87e-05	0.0
415	62	9.01e-04	-6.49e-03	-0.07	1.71e-04	-4.26e-05	0.0
415	70	-7.82e-04	-3.57e-03	-0.07	1.76e-04	-4.20e-05	0.0
415	72	-6.77e-04	-3.07e-03	-0.06	1.51e-04	-3.63e-05	0.0
416	2	-8.43e-04	-4.66e-03	-0.08	2.30e-04	-4.52e-05	0.0
416	11	-2.93e-03	-2.13e-03	-0.06	1.36e-04	-2.70e-05	0.0
416	22	-2.18e-05	-5.13e-03	-0.06	1.56e-04	-2.98e-05	0.0
416	30	4.43e-04	-5.07e-03	-0.06	1.56e-04	-3.12e-05	0.0
416	43	-4.34e-03	-1.70e-03	-0.06	1.32e-04	-2.62e-05	0.0
416	54	2.77e-04	-6.47e-03	-0.06	1.65e-04	-3.06e-05	0.0
416	62	1.02e-03	-6.37e-03	-0.06	1.65e-04	-3.30e-05	0.0
416	70	-6.32e-04	-3.48e-03	-0.06	1.72e-04	-3.39e-05	0.0
416	72	-5.49e-04	-2.99e-03	-0.06	1.48e-04	-2.94e-05	0.0
417	2	-5.25e-04	-4.20e-03	-0.07	2.07e-04	-2.83e-05	0.0
417	11	-2.72e-03	-1.87e-03	-0.05	1.23e-04	-1.81e-05	0.0
417	22	2.23e-04	-4.79e-03	-0.05	1.39e-04	-1.68e-05	0.0
417	43	-4.12e-03	-1.45e-03	-0.05	1.20e-04	-1.83e-05	0.0
417	54	5.51e-04	-6.10e-03	-0.05	1.46e-04	-1.61e-05	0.0
417	70	-3.94e-04	-3.14e-03	-0.05	1.55e-04	-2.12e-05	0.0
417	72	-3.44e-04	-2.69e-03	-0.05	1.33e-04	-1.85e-05	0.0
418	2	-2.85e-04	-3.48e-03	-0.06	1.72e-04	-1.58e-05	0.0
418	11	-2.55e-03	-1.46e-03	-0.04	1.03e-04	-1.07e-05	0.0
418	22	4.05e-04	-4.28e-03	-0.05	1.14e-04	-8.92e-06	0.0
418	43	-3.94e-03	-1.06e-03	-0.04	1.01e-04	-1.10e-05	0.0
418	54	7.52e-04	-5.55e-03	-0.05	1.19e-04	-8.22e-06	0.0

418	70	-2.14e-04	-2.60e-03	-0.05	1.28e-04	-1.19e-05	0.0
418	72	-1.89e-04	-2.24e-03	-0.05	1.11e-04	-1.05e-05	0.0
419	2	-1.30e-04	-2.61e-03	-0.05	1.29e-04	-8.09e-06	0.0
419	11	-2.42e-03	-9.48e-04	-0.04	7.74e-05	-5.85e-06	0.0
419	22	5.27e-04	-3.69e-03	-0.04	8.47e-05	-4.31e-06	0.0
419	43	-3.80e-03	-5.57e-04	-0.04	7.61e-05	-6.20e-06	0.0
419	54	8.88e-04	-4.92e-03	-0.04	8.78e-05	-3.77e-06	0.0
419	70	-9.82e-05	-1.95e-03	-0.04	9.62e-05	-6.09e-06	0.0
419	72	-8.77e-05	-1.68e-03	-0.04	8.29e-05	-5.41e-06	0.0
420	2	-4.12e-05	-1.66e-03	-0.05	8.21e-05	-3.73e-06	0.0
420	11	-2.33e-03	-3.81e-04	-0.04	4.96e-05	-3.02e-06	0.0
420	22	6.06e-04	-3.06e-03	-0.04	5.39e-05	-1.89e-06	0.0
420	30	7.51e-04	-2.99e-03	-0.04	5.38e-05	-2.04e-06	0.0
420	43	-3.69e-03	0.0	-0.04	4.88e-05	-3.34e-06	0.0
420	54	9.81e-04	-4.26e-03	-0.04	5.56e-05	-1.54e-06	0.0
420	62	1.21e-03	-4.15e-03	-0.04	5.56e-05	-1.78e-06	0.0
420	70	-3.13e-05	-1.24e-03	-0.04	6.13e-05	-2.81e-06	0.0
420	72	-2.92e-05	-1.07e-03	-0.04	5.29e-05	-2.55e-06	0.0
421	1	-2.55e-06	-5.50e-04	-0.05	2.74e-05	-1.53e-06	0.0
421	2	1.01e-06	-6.82e-04	-0.05	3.39e-05	-1.68e-06	0.0
421	11	-2.27e-03	2.14e-04	-0.04	2.03e-05	-1.63e-06	0.0
421	22	6.57e-04	-2.44e-03	-0.04	2.29e-05	0.0	0.0
421	36	-6.36e-04	-2.36e-03	-0.04	2.29e-05	-1.17e-06	0.0
421	43	-3.61e-03	5.89e-04	-0.04	1.99e-05	-1.90e-06	0.0
421	54	1.05e-03	-3.62e-03	-0.04	2.40e-05	0.0	0.0
421	68	-1.01e-03	-3.51e-03	-0.04	2.40e-05	-1.17e-06	0.0
421	69	-2.01e-06	-4.22e-04	-0.04	2.10e-05	-1.17e-06	0.0
421	70	0.0	-5.09e-04	-0.04	2.54e-05	-1.27e-06	0.0
421	71	-2.01e-06	-4.22e-04	-0.04	2.10e-05	-1.17e-06	0.0
421	72	-1.53e-06	-4.39e-04	-0.04	2.19e-05	-1.19e-06	0.0
422	2	7.17e-06	3.06e-04	-0.05	-1.47e-05	-1.34e-06	0.0
422	17	2.27e-03	8.21e-04	-0.04	-9.68e-06	0.0	0.0
422	23	-6.81e-04	2.20e-03	-0.04	-1.07e-05	-1.01e-06	0.0
422	31	-6.54e-04	2.13e-03	-0.04	-1.08e-05	-1.03e-06	0.0
422	49	3.60e-03	1.19e-03	-0.04	-1.00e-05	0.0	0.0
422	55	-1.08e-03	3.38e-03	-0.04	-1.17e-05	-1.03e-06	0.0
422	63	-1.04e-03	3.27e-03	-0.04	-1.18e-05	-1.07e-06	0.0
422	70	4.99e-06	2.28e-04	-0.04	-1.10e-05	-1.02e-06	0.0
422	72	2.54e-06	1.97e-04	-0.04	-9.46e-06	0.0	0.0
423	2	-2.08e-05	1.29e-03	-0.05	-6.31e-05	-2.62e-06	0.0
423	20	-2.31e-03	1.58e-04	-0.04	-3.80e-05	-2.28e-06	0.0
423	25	6.28e-04	2.82e-03	-0.04	-4.15e-05	-1.31e-06	0.0
423	31	-6.11e-04	2.75e-03	-0.04	-4.14e-05	-1.66e-06	0.0
423	52	-3.67e-03	-2.19e-04	-0.04	-3.74e-05	-2.58e-06	0.0
423	57	1.01e-03	4.02e-03	-0.04	-4.30e-05	-1.03e-06	0.0
423	63	-9.62e-04	3.90e-03	-0.04	-4.27e-05	-1.59e-06	0.0
423	70	-1.60e-05	9.63e-04	-0.04	-4.71e-05	-1.98e-06	0.0
423	72	-1.58e-05	8.30e-04	-0.04	-4.07e-05	-1.82e-06	0.0
424	2	-9.01e-05	2.25e-03	-0.05	-1.10e-04	-5.92e-06	0.0
424	20	-2.39e-03	7.38e-04	-0.04	-6.65e-05	-4.45e-06	0.0
424	25	5.61e-04	3.45e-03	-0.04	-7.25e-05	-3.08e-06	0.0
424	52	-3.76e-03	3.53e-04	-0.04	-6.55e-05	-4.78e-06	0.0
424	57	9.28e-04	4.67e-03	-0.04	-7.50e-05	-2.61e-06	0.0
424	65	1.24e-03	4.55e-03	-0.04	-7.49e-05	-3.00e-06	0.0
424	70	-6.80e-05	1.68e-03	-0.04	-8.25e-05	-4.46e-06	0.0
424	72	-6.13e-05	1.45e-03	-0.04	-7.12e-05	-3.99e-06	0.0
425	2	-2.17e-04	3.16e-03	-0.06	-1.55e-04	-1.22e-05	0.0
425	20	-2.50e-03	1.28e-03	-0.04	-9.29e-05	-8.38e-06	0.0
425	25	4.58e-04	4.06e-03	-0.04	-1.03e-04	-6.70e-06	0.0
425	52	-3.89e-03	8.78e-04	-0.04	-9.12e-05	-8.71e-06	0.0
425	57	8.11e-04	5.31e-03	-0.04	-1.07e-04	-6.05e-06	0.0
425	70	-1.63e-04	2.36e-03	-0.05	-1.16e-04	-9.16e-06	0.0
425	72	-1.44e-04	2.03e-03	-0.04	-9.99e-05	-8.09e-06	0.0
426	2	-4.24e-04	3.95e-03	-0.07	-1.94e-04	-2.27e-05	0.0
426	20	-2.65e-03	1.73e-03	-0.05	-1.15e-04	-1.48e-05	0.0
426	25	3.00e-04	4.61e-03	-0.05	-1.30e-04	-1.32e-05	0.0
426	52	-4.06e-03	1.32e-03	-0.05	-1.13e-04	-1.50e-05	0.0
426	57	6.36e-04	5.90e-03	-0.05	-1.36e-04	-1.25e-05	0.0
426	70	-3.18e-04	2.95e-03	-0.05	-1.45e-04	-1.71e-05	0.0
426	72	-2.79e-04	2.53e-03	-0.05	-1.25e-04	-1.49e-05	0.0
427	2	-7.19e-04	4.52e-03	-0.08	-2.22e-04	-3.81e-05	0.0
427	20	-2.85e-03	2.06e-03	-0.05	-1.31e-04	-2.31e-05	0.0
427	25	7.51e-05	5.02e-03	-0.06	-1.50e-04	-2.52e-05	0.0
427	52	-4.26e-03	1.64e-03	-0.05	-1.28e-04	-2.25e-05	0.0
427	57	3.86e-04	6.35e-03	-0.06	-1.58e-04	-2.59e-05	0.0
427	70	-5.39e-04	3.37e-03	-0.06	-1.66e-04	-2.86e-05	0.0

427	72	-4.69e-04	2.90e-03	-0.06	-1.43e-04	-2.49e-05	0.0
428	2	-1.06e-03	4.78e-03	-0.09	-2.35e-04	-5.62e-05	0.0
428	20	-3.07e-03	2.20e-03	-0.06	-1.38e-04	-3.30e-05	0.0
428	25	-1.98e-04	5.23e-03	-0.06	-1.60e-04	-3.74e-05	0.0
428	33	3.16e-04	5.16e-03	-0.06	-1.61e-04	-3.98e-05	0.0
428	52	-4.49e-03	1.77e-03	-0.06	-1.35e-04	-3.18e-05	0.0
428	57	7.54e-05	6.58e-03	-0.07	-1.69e-04	-3.88e-05	0.0
428	65	8.93e-04	6.48e-03	-0.07	-1.70e-04	-4.26e-05	0.0
428	70	-7.96e-04	3.57e-03	-0.07	-1.75e-04	-4.21e-05	0.0
428	72	-6.89e-04	3.06e-03	-0.06	-1.51e-04	-3.64e-05	0.0
429	2	-6.35e-04	-4.44e-03	-0.09	2.20e-04	-3.47e-05	0.0
429	11	-2.76e-03	-2.04e-03	-0.06	1.31e-04	-1.79e-05	0.0
429	22	8.16e-05	-5.02e-03	-0.06	1.50e-04	-2.43e-05	0.0
429	43	-4.16e-03	-1.63e-03	-0.06	1.28e-04	-1.56e-05	0.0
429	54	3.65e-04	-6.37e-03	-0.06	1.58e-04	-2.58e-05	0.0
429	70	-4.76e-04	-3.32e-03	-0.07	1.65e-04	-2.60e-05	0.0
429	72	-4.14e-04	-2.85e-03	-0.06	1.41e-04	-2.26e-05	0.0
430	2	-5.16e-04	-4.33e-03	-0.08	2.15e-04	-2.84e-05	0.0
430	11	-2.69e-03	-1.98e-03	-0.06	1.28e-04	-1.48e-05	0.0
430	22	1.83e-04	-4.93e-03	-0.06	1.46e-04	-1.99e-05	0.0
430	43	-4.08e-03	-1.57e-03	-0.06	1.25e-04	-1.30e-05	0.0
430	54	4.83e-04	-6.27e-03	-0.06	1.54e-04	-2.11e-05	0.0
430	70	-3.87e-04	-3.24e-03	-0.06	1.61e-04	-2.13e-05	0.0
430	72	-3.38e-04	-2.78e-03	-0.06	1.38e-04	-1.85e-05	0.0
431	2	-3.27e-04	-3.93e-03	-0.07	1.95e-04	-1.84e-05	0.0
431	11	-2.56e-03	-1.75e-03	-0.05	1.16e-04	-9.82e-06	0.0
431	22	3.39e-04	-4.64e-03	-0.05	1.31e-04	-1.11e-05	0.0
431	43	-3.95e-03	-1.35e-03	-0.05	1.14e-04	-8.69e-06	0.0
431	54	6.63e-04	-5.95e-03	-0.05	1.38e-04	-1.08e-05	0.0
431	70	-2.45e-04	-2.93e-03	-0.05	1.46e-04	-1.38e-05	0.0
431	72	-2.16e-04	-2.52e-03	-0.05	1.25e-04	-1.21e-05	0.0
432	2	-1.76e-04	-3.29e-03	-0.06	1.63e-04	-1.07e-05	0.0
432	11	-2.45e-03	-1.38e-03	-0.04	9.78e-05	-6.28e-06	0.0
432	22	4.66e-04	-4.19e-03	-0.05	1.09e-04	-6.30e-06	0.0
432	43	-3.84e-03	-9.91e-04	-0.04	9.60e-05	-5.92e-06	0.0
432	54	8.08e-04	-5.47e-03	-0.05	1.14e-04	-5.96e-06	0.0
432	70	-1.33e-04	-2.46e-03	-0.05	1.22e-04	-8.03e-06	0.0
432	72	-1.18e-04	-2.11e-03	-0.05	1.05e-04	-7.12e-06	0.0
433	2	-7.35e-05	-2.49e-03	-0.05	1.24e-04	-5.50e-06	0.0
433	11	-2.37e-03	-9.03e-04	-0.04	7.44e-05	-3.40e-06	0.0
433	22	5.57e-04	-3.65e-03	-0.04	8.17e-05	-3.15e-06	0.0
433	43	-3.74e-03	-5.28e-04	-0.04	7.32e-05	-3.27e-06	0.0
433	54	9.16e-04	-4.89e-03	-0.04	8.49e-05	-2.86e-06	0.0
433	70	-5.56e-05	-1.86e-03	-0.04	9.24e-05	-4.15e-06	0.0
433	72	-5.09e-05	-1.60e-03	-0.04	7.96e-05	-3.74e-06	0.0
434	1	-1.41e-05	-1.29e-03	-0.05	6.40e-05	-2.24e-06	0.0
434	2	-1.21e-05	-1.60e-03	-0.05	7.94e-05	-2.49e-06	0.0
434	11	-2.31e-03	-3.66e-04	-0.04	4.79e-05	-1.70e-06	0.0
434	22	6.21e-04	-3.06e-03	-0.04	5.23e-05	-1.40e-06	0.0
434	43	-3.66e-03	0.0	-0.04	4.72e-05	-1.70e-06	0.0
434	54	9.94e-04	-4.28e-03	-0.04	5.43e-05	-1.22e-06	0.0
434	69	-1.09e-05	-9.87e-04	-0.04	4.91e-05	-1.72e-06	0.0
434	70	-9.56e-06	-1.19e-03	-0.04	5.93e-05	-1.89e-06	0.0
434	71	-1.09e-05	-9.87e-04	-0.04	4.91e-05	-1.72e-06	0.0
434	72	-1.06e-05	-1.03e-03	-0.04	5.11e-05	-1.75e-06	0.0
435	2	1.72e-05	-6.58e-04	-0.05	3.29e-05	-1.05e-06	0.0
435	10	2.27e-03	-1.02e-03	-0.04	2.11e-05	0.0	0.0
435	22	6.65e-04	-2.45e-03	-0.04	2.25e-05	0.0	0.0
435	30	7.24e-04	-2.31e-03	-0.04	2.24e-05	0.0	0.0
435	42	3.61e-03	-1.38e-03	-0.04	2.15e-05	0.0	0.0
435	54	1.05e-03	-3.66e-03	-0.04	2.37e-05	0.0	0.0
435	62	1.15e-03	-3.43e-03	-0.04	2.36e-05	0.0	0.0
435	70	1.25e-05	-4.92e-04	-0.04	2.46e-05	0.0	0.0
435	72	8.76e-06	-4.24e-04	-0.04	2.12e-05	0.0	0.0
436	2	2.12e-05	2.97e-04	-0.05	-1.43e-05	0.0	0.0
436	17	2.27e-03	7.93e-04	-0.04	-9.46e-06	0.0	0.0
436	23	-6.72e-04	2.23e-03	-0.04	-1.07e-05	0.0	0.0
436	25	6.77e-04	2.23e-03	-0.04	-1.07e-05	0.0	0.0
436	49	3.60e-03	1.15e-03	-0.04	-9.82e-06	0.0	0.0
436	55	-1.07e-03	3.43e-03	-0.04	-1.17e-05	0.0	0.0
436	57	1.07e-03	3.43e-03	-0.04	-1.18e-05	0.0	0.0
436	70	1.54e-05	2.22e-04	-0.04	-1.07e-05	0.0	0.0
436	72	1.14e-05	1.91e-04	-0.04	-9.20e-06	0.0	0.0
437	1	-3.25e-06	1.00e-03	-0.05	-4.93e-05	-1.61e-06	0.0
437	2	0.0	1.25e-03	-0.05	-6.11e-05	-1.74e-06	0.0
437	20	-2.29e-03	1.55e-04	-0.04	-3.68e-05	-1.23e-06	0.0

437	25	6.39e-04	2.83e-03	-0.04	-4.05e-05	-1.01e-06	0.0
437	52	-3.64e-03	-2.08e-04	-0.04	-3.62e-05	-1.23e-06	0.0
437	57	1.02e-03	4.04e-03	-0.04	-4.21e-05	0.0	0.0
437	69	-2.54e-06	7.69e-04	-0.04	-3.78e-05	-1.24e-06	0.0
437	70	0.0	9.31e-04	-0.04	-4.57e-05	-1.32e-06	0.0
437	71	-2.54e-06	7.69e-04	-0.04	-3.78e-05	-1.24e-06	0.0
437	72	-1.99e-06	8.02e-04	-0.04	-3.94e-05	-1.26e-06	0.0
438	2	-4.83e-05	2.16e-03	-0.05	-1.06e-04	-4.06e-06	0.0
438	20	-2.35e-03	7.07e-04	-0.04	-6.41e-05	-2.56e-06	0.0
438	25	5.83e-04	3.43e-03	-0.04	-7.02e-05	-2.30e-06	0.0
438	52	-3.71e-03	3.37e-04	-0.04	-6.31e-05	-2.47e-06	0.0
438	57	9.47e-04	4.66e-03	-0.04	-7.28e-05	-2.06e-06	0.0
438	70	-3.67e-05	1.61e-03	-0.04	-7.95e-05	-3.06e-06	0.0
438	72	-3.43e-05	1.39e-03	-0.04	-6.85e-05	-2.79e-06	0.0
439	2	-1.35e-04	3.00e-03	-0.06	-1.48e-04	-8.31e-06	0.0
439	20	-2.43e-03	1.21e-03	-0.04	-8.89e-05	-4.92e-06	0.0
439	25	5.02e-04	3.99e-03	-0.04	-9.84e-05	-4.85e-06	0.0
439	52	-3.80e-03	8.28e-04	-0.04	-8.73e-05	-4.63e-06	0.0
439	57	8.51e-04	5.26e-03	-0.04	-1.02e-04	-4.53e-06	0.0
439	70	-1.02e-04	2.24e-03	-0.04	-1.11e-04	-6.25e-06	0.0
439	72	-9.12e-05	1.93e-03	-0.04	-9.53e-05	-5.57e-06	0.0
440	2	-2.69e-04	3.71e-03	-0.07	-1.83e-04	-1.50e-05	0.0
440	20	-2.53e-03	1.62e-03	-0.05	-1.09e-04	-8.08e-06	0.0
440	25	3.88e-04	4.48e-03	-0.05	-1.23e-04	-9.02e-06	0.0
440	52	-3.91e-03	1.23e-03	-0.05	-1.07e-04	-7.17e-06	0.0
440	57	7.19e-04	5.78e-03	-0.05	-1.29e-04	-8.66e-06	0.0
440	70	-2.02e-04	2.77e-03	-0.05	-1.37e-04	-1.13e-05	0.0
440	72	-1.78e-04	2.38e-03	-0.05	-1.18e-04	-9.96e-06	0.0
441	2	-4.48e-04	4.21e-03	-0.08	-2.08e-04	-2.42e-05	0.0
441	20	-2.65e-03	1.91e-03	-0.05	-1.24e-04	-1.28e-05	0.0
441	25	2.41e-04	4.84e-03	-0.06	-1.41e-04	-1.71e-05	0.0
441	52	-4.04e-03	1.51e-03	-0.05	-1.21e-04	-1.13e-05	0.0
441	57	5.50e-04	6.17e-03	-0.06	-1.48e-04	-1.81e-05	0.0
441	70	-3.36e-04	3.14e-03	-0.06	-1.55e-04	-1.82e-05	0.0
441	72	-2.94e-04	2.70e-03	-0.05	-1.34e-04	-1.59e-05	0.0
442	2	-6.50e-04	4.44e-03	-0.09	-2.19e-04	-3.48e-05	0.0
442	20	-2.78e-03	2.04e-03	-0.06	-1.30e-04	-1.80e-05	0.0
442	25	7.08e-05	5.01e-03	-0.06	-1.49e-04	-2.44e-05	0.0
442	52	-4.17e-03	1.63e-03	-0.06	-1.27e-04	-1.58e-05	0.0
442	57	3.53e-04	6.36e-03	-0.06	-1.58e-04	-2.59e-05	0.0
442	70	-4.87e-04	3.32e-03	-0.07	-1.64e-04	-2.61e-05	0.0
442	72	-4.24e-04	2.85e-03	-0.06	-1.41e-04	-2.27e-05	0.0
443	1	-2.94e-05	-3.45e-03	-0.08	1.72e-04	-3.18e-06	0.0
443	2	-2.72e-05	-4.30e-03	-0.09	2.14e-04	-3.48e-06	0.0
443	11	-2.38e-03	-1.99e-03	-0.06	1.28e-04	2.08e-06	0.0
443	22	4.87e-04	-4.95e-03	-0.06	1.45e-04	-1.36e-06	0.0
443	26	4.52e-04	-4.93e-03	-0.06	1.45e-04	0.0	0.0
443	43	-3.76e-03	-1.61e-03	-0.06	1.25e-04	4.75e-06	0.0
443	54	7.89e-04	-6.31e-03	-0.06	1.54e-04	0.0	0.0
443	58	7.32e-04	-6.28e-03	-0.06	1.54e-04	0.0	0.0
443	69	-2.26e-05	-2.64e-03	-0.06	1.32e-04	-2.45e-06	0.0
443	70	-2.12e-05	-3.21e-03	-0.07	1.60e-04	-2.65e-06	0.0
443	71	-2.26e-05	-2.64e-03	-0.06	1.32e-04	-2.45e-06	0.0
443	72	-2.24e-05	-2.76e-03	-0.06	1.37e-04	-2.49e-06	0.0
444	1	-1.36e-05	-3.36e-03	-0.07	1.68e-04	-2.38e-06	0.0
444	2	-8.20e-06	-4.20e-03	-0.08	2.09e-04	-2.51e-06	0.0
444	11	-2.36e-03	-1.94e-03	-0.06	1.25e-04	1.88e-06	0.0
444	22	5.15e-04	-4.87e-03	-0.06	1.42e-04	-1.02e-06	0.0
444	26	4.83e-04	-4.85e-03	-0.06	1.42e-04	0.0	0.0
444	43	-3.75e-03	-1.56e-03	-0.06	1.23e-04	4.07e-06	0.0
444	54	8.26e-04	-6.22e-03	-0.06	1.49e-04	0.0	0.0
444	58	7.74e-04	-6.19e-03	-0.06	1.49e-04	0.0	0.0
444	69	-1.05e-05	-2.58e-03	-0.06	1.28e-04	-1.83e-06	0.0
444	70	-6.91e-06	-3.13e-03	-0.06	1.56e-04	-1.92e-06	0.0
444	71	-1.05e-05	-2.58e-03	-0.06	1.28e-04	-1.83e-06	0.0
444	72	-9.78e-06	-2.69e-03	-0.06	1.34e-04	-1.85e-06	0.0
445	2	2.17e-05	-3.81e-03	-0.07	1.90e-04	-1.02e-06	0.0
445	10	2.35e-03	-2.98e-03	-0.05	1.20e-04	-3.42e-06	0.0
445	22	5.61e-04	-4.59e-03	-0.05	1.28e-04	0.0	0.0
445	26	5.33e-04	-4.58e-03	-0.05	1.28e-04	0.0	0.0
445	42	3.74e-03	-3.35e-03	-0.05	1.22e-04	-4.92e-06	0.0
445	54	8.86e-04	-5.92e-03	-0.05	1.34e-04	0.0	0.0
445	58	8.42e-04	-5.89e-03	-0.05	1.34e-04	0.0	0.0
445	70	1.55e-05	-2.85e-03	-0.05	1.42e-04	0.0	0.0
445	72	1.01e-05	-2.45e-03	-0.05	1.22e-04	0.0	0.0
446	2	4.52e-05	-3.21e-03	-0.06	1.60e-04	0.0	0.0

446	10	2.35e-03	-2.59e-03	-0.04	1.01e-04	-1.69e-06	0.0
446	22	6.02e-04	-4.17e-03	-0.05	1.06e-04	0.0	0.0
446	26	5.79e-04	-4.15e-03	-0.05	1.06e-04	0.0	0.0
446	42	3.73e-03	-2.96e-03	-0.04	1.02e-04	-2.61e-06	0.0
446	54	9.42e-04	-5.46e-03	-0.05	1.11e-04	0.0	0.0
446	58	9.06e-04	-5.43e-03	-0.05	1.11e-04	0.0	0.0
446	70	3.33e-05	-2.40e-03	-0.05	1.19e-04	0.0	0.0
446	72	2.59e-05	-2.06e-03	-0.05	1.03e-04	0.0	0.0
447	2	6.07e-05	-2.44e-03	-0.05	1.21e-04	0.0	0.0
447	10	2.35e-03	-2.11e-03	-0.04	7.65e-05	0.0	0.0
447	22	6.38e-04	-3.64e-03	-0.04	8.03e-05	0.0	0.0
447	26	6.21e-04	-3.63e-03	-0.04	8.03e-05	0.0	0.0
447	42	3.71e-03	-2.46e-03	-0.04	7.74e-05	0.0	0.0
447	54	9.94e-04	-4.91e-03	-0.04	8.34e-05	0.0	0.0
447	58	9.67e-04	-4.88e-03	-0.04	8.35e-05	0.0	0.0
447	70	4.50e-05	-1.82e-03	-0.04	9.06e-05	0.0	0.0
447	72	3.65e-05	-1.57e-03	-0.04	7.80e-05	0.0	0.0
448	2	6.91e-05	-1.57e-03	-0.05	7.81e-05	1.24e-06	0.0
448	10	2.33e-03	-1.56e-03	-0.04	4.93e-05	0.0	0.0
448	22	6.70e-04	-3.07e-03	-0.04	5.16e-05	0.0	0.0
448	26	6.59e-04	-3.05e-03	-0.04	5.16e-05	0.0	0.0
448	42	3.68e-03	-1.91e-03	-0.04	4.99e-05	0.0	0.0
448	54	1.04e-03	-4.31e-03	-0.04	5.36e-05	0.0	0.0
448	58	1.02e-03	-4.28e-03	-0.04	5.36e-05	0.0	0.0
448	70	5.14e-05	-1.17e-03	-0.04	5.84e-05	0.0	0.0
448	72	4.24e-05	-1.01e-03	-0.04	5.03e-05	0.0	0.0
449	2	7.24e-05	-6.47e-04	-0.05	3.25e-05	1.40e-06	0.0
449	10	2.31e-03	-9.86e-04	-0.04	2.07e-05	0.0	0.0
449	22	6.98e-04	-2.48e-03	-0.04	2.22e-05	0.0	0.0
449	42	3.64e-03	-1.33e-03	-0.04	2.11e-05	0.0	0.0
449	54	1.09e-03	-3.70e-03	-0.04	2.35e-05	0.0	0.0
449	70	5.38e-05	-4.83e-04	-0.04	2.43e-05	1.03e-06	0.0
449	72	4.47e-05	-4.16e-04	-0.04	2.09e-05	0.0	0.0
450	2	7.18e-05	2.94e-04	-0.05	-1.41e-05	1.41e-06	0.0
450	17	2.30e-03	7.67e-04	-0.04	-9.30e-06	0.0	0.0
450	21	7.04e-04	2.23e-03	-0.04	-1.07e-05	0.0	0.0
450	23	-6.40e-04	2.25e-03	-0.04	-1.06e-05	0.0	0.0
450	49	3.63e-03	1.11e-03	-0.04	-9.65e-06	0.0	0.0
450	53	1.10e-03	3.45e-03	-0.04	-1.18e-05	0.0	0.0
450	55	-1.04e-03	3.48e-03	-0.04	-1.18e-05	0.0	0.0
450	70	5.34e-05	2.19e-04	-0.04	-1.05e-05	1.04e-06	0.0
450	72	4.44e-05	1.89e-04	-0.04	-9.06e-06	0.0	0.0
451	2	6.78e-05	1.23e-03	-0.05	-6.02e-05	1.29e-06	0.0
451	17	2.32e-03	1.35e-03	-0.04	-3.81e-05	0.0	0.0
451	21	6.68e-04	2.83e-03	-0.04	-4.00e-05	0.0	0.0
451	23	-6.68e-04	2.84e-03	-0.04	-4.00e-05	0.0	0.0
451	49	3.67e-03	1.69e-03	-0.04	-3.86e-05	0.0	0.0
451	53	1.04e-03	4.05e-03	-0.04	-4.16e-05	0.0	0.0
451	55	-1.09e-03	4.08e-03	-0.04	-4.15e-05	0.0	0.0
451	70	5.04e-05	9.16e-04	-0.04	-4.50e-05	0.0	0.0
451	72	4.17e-05	7.89e-04	-0.04	-3.88e-05	0.0	0.0
452	2	5.93e-05	2.12e-03	-0.05	-1.05e-04	0.0	0.0
452	17	2.34e-03	1.91e-03	-0.04	-6.59e-05	0.0	0.0
452	21	6.30e-04	3.41e-03	-0.04	-6.91e-05	0.0	0.0
452	25	6.47e-04	3.43e-03	-0.04	-6.91e-05	0.0	0.0
452	49	3.70e-03	2.26e-03	-0.04	-6.67e-05	0.0	0.0
452	53	9.81e-04	4.65e-03	-0.04	-7.17e-05	0.0	0.0
452	57	1.01e-03	4.68e-03	-0.04	-7.17e-05	0.0	0.0
452	70	4.40e-05	1.58e-03	-0.04	-7.81e-05	0.0	0.0
452	72	3.59e-05	1.36e-03	-0.04	-6.73e-05	0.0	0.0
453	2	4.45e-05	2.93e-03	-0.06	-1.45e-04	0.0	0.0
453	17	2.35e-03	2.42e-03	-0.04	-9.15e-05	-1.21e-06	0.0
453	21	5.88e-04	3.96e-03	-0.04	-9.64e-05	0.0	0.0
453	25	6.11e-04	3.98e-03	-0.04	-9.64e-05	0.0	0.0
453	49	3.73e-03	2.78e-03	-0.04	-9.27e-05	-1.96e-06	0.0
453	53	9.20e-04	5.23e-03	-0.04	-1.01e-04	0.0	0.0
453	57	9.57e-04	5.26e-03	-0.04	-1.00e-04	0.0	0.0
453	70	3.28e-05	2.19e-03	-0.04	-1.08e-04	0.0	0.0
453	72	2.59e-05	1.88e-03	-0.04	-9.32e-05	0.0	0.0
454	2	2.21e-05	3.61e-03	-0.07	-1.79e-04	0.0	0.0
454	17	2.35e-03	2.85e-03	-0.05	-1.13e-04	-2.71e-06	0.0
454	21	5.42e-04	4.43e-03	-0.05	-1.20e-04	0.0	0.0
454	25	5.71e-04	4.45e-03	-0.05	-1.20e-04	0.0	0.0
454	49	3.73e-03	3.22e-03	-0.05	-1.14e-04	-3.97e-06	0.0
454	53	8.56e-04	5.73e-03	-0.05	-1.26e-04	0.0	0.0
454	57	9.02e-04	5.76e-03	-0.05	-1.26e-04	0.0	0.0

454	70	1.59e-05	2.70e-03	-0.05	-1.33e-04	0.0	0.0
454	72	1.07e-05	2.32e-03	-0.05	-1.15e-04	0.0	0.0
455	1	-1.27e-05	3.28e-03	-0.07	-1.62e-04	-1.88e-06	0.0
455	2	-7.82e-06	4.08e-03	-0.08	-2.02e-04	-1.91e-06	0.0
455	20	-2.36e-03	1.87e-03	-0.05	-1.21e-04	1.74e-06	0.0
455	21	4.92e-04	4.77e-03	-0.06	-1.37e-04	0.0	0.0
455	25	5.26e-04	4.79e-03	-0.06	-1.37e-04	0.0	0.0
455	52	-3.75e-03	1.49e-03	-0.05	-1.19e-04	3.62e-06	0.0
455	53	7.87e-04	6.10e-03	-0.06	-1.44e-04	0.0	0.0
455	57	8.41e-04	6.13e-03	-0.06	-1.44e-04	0.0	0.0
455	69	-9.80e-06	2.51e-03	-0.05	-1.24e-04	-1.44e-06	0.0
455	70	-6.56e-06	3.05e-03	-0.06	-1.51e-04	-1.47e-06	0.0
455	71	-9.80e-06	2.51e-03	-0.05	-1.24e-04	-1.44e-06	0.0
455	72	-9.15e-06	2.62e-03	-0.05	-1.30e-04	-1.45e-06	0.0
456	2	-4.21e-05	4.30e-03	-0.09	-2.13e-04	-3.58e-06	0.0
456	20	-2.39e-03	1.99e-03	-0.06	-1.27e-04	1.89e-06	0.0
456	21	4.39e-04	4.93e-03	-0.06	-1.45e-04	0.0	0.0
456	25	4.77e-04	4.95e-03	-0.06	-1.45e-04	-1.35e-06	0.0
456	52	-3.78e-03	1.61e-03	-0.06	-1.25e-04	4.49e-06	0.0
456	53	7.17e-04	6.28e-03	-0.06	-1.53e-04	0.0	0.0
456	57	7.78e-04	6.31e-03	-0.06	-1.53e-04	0.0	0.0
456	70	-3.23e-05	3.21e-03	-0.07	-1.59e-04	-2.72e-06	0.0
456	72	-3.18e-05	2.75e-03	-0.06	-1.36e-04	-2.55e-06	0.0
457	2	6.15e-04	-4.37e-03	-0.09	2.17e-04	2.95e-05	0.0
457	10	2.74e-03	-3.27e-03	-0.06	1.36e-04	1.57e-05	0.0
457	24	-4.38e-04	-5.04e-03	-0.06	1.48e-04	2.22e-05	0.0
457	28	-4.02e-04	-5.04e-03	-0.06	1.48e-04	2.19e-05	0.0
457	42	4.13e-03	-3.62e-03	-0.06	1.38e-04	1.43e-05	0.0
457	56	-9.18e-04	-6.42e-03	-0.06	1.57e-04	2.47e-05	0.0
457	60	-8.61e-04	-6.43e-03	-0.06	1.57e-04	2.41e-05	0.0
457	70	4.59e-04	-3.26e-03	-0.07	1.62e-04	2.20e-05	0.0
457	72	3.92e-04	-2.80e-03	-0.06	1.39e-04	1.88e-05	0.0
458	2	5.31e-04	-4.26e-03	-0.08	2.12e-04	2.50e-05	0.0
458	10	2.69e-03	-3.20e-03	-0.06	1.33e-04	1.33e-05	0.0
458	24	-4.89e-04	-4.95e-03	-0.06	1.44e-04	1.83e-05	0.0
458	28	-4.55e-04	-4.96e-03	-0.06	1.44e-04	1.80e-05	0.0
458	42	4.08e-03	-3.55e-03	-0.06	1.35e-04	1.21e-05	0.0
458	56	-9.68e-04	-6.33e-03	-0.06	1.53e-04	2.02e-05	0.0
458	60	-9.15e-04	-6.33e-03	-0.06	1.52e-04	1.97e-05	0.0
458	70	3.97e-04	-3.18e-03	-0.06	1.58e-04	1.87e-05	0.0
458	72	3.39e-04	-2.73e-03	-0.06	1.36e-04	1.59e-05	0.0
459	2	3.97e-04	-3.87e-03	-0.07	1.92e-04	1.77e-05	0.0
459	10	2.59e-03	-2.95e-03	-0.05	1.21e-04	8.46e-06	0.0
459	24	-5.61e-04	-4.67e-03	-0.05	1.30e-04	1.25e-05	0.0
459	28	-5.33e-04	-4.67e-03	-0.05	1.30e-04	1.23e-05	0.0
459	42	3.98e-03	-3.29e-03	-0.05	1.22e-04	7.06e-06	0.0
459	56	-1.04e-03	-6.02e-03	-0.05	1.37e-04	1.35e-05	0.0
459	60	-9.91e-04	-6.02e-03	-0.05	1.37e-04	1.32e-05	0.0
459	70	2.97e-04	-2.89e-03	-0.05	1.44e-04	1.33e-05	0.0
459	72	2.54e-04	-2.48e-03	-0.05	1.24e-04	1.13e-05	0.0
460	2	2.88e-04	-3.25e-03	-0.06	1.62e-04	1.20e-05	0.0
460	10	2.51e-03	-2.59e-03	-0.04	1.01e-04	5.86e-06	0.0
460	24	-6.11e-04	-4.22e-03	-0.05	1.08e-04	7.27e-06	0.0
460	28	-5.88e-04	-4.23e-03	-0.05	1.08e-04	7.14e-06	0.0
460	42	3.89e-03	-2.94e-03	-0.05	1.02e-04	5.01e-06	0.0
460	56	-1.08e-03	-5.53e-03	-0.05	1.13e-04	7.25e-06	0.0
460	60	-1.04e-03	-5.54e-03	-0.05	1.13e-04	7.03e-06	0.0
460	70	2.15e-04	-2.43e-03	-0.05	1.21e-04	8.94e-06	0.0
460	72	1.84e-04	-2.09e-03	-0.05	1.04e-04	7.64e-06	0.0
461	2	2.09e-04	-2.47e-03	-0.05	1.23e-04	7.92e-06	0.0
461	10	2.44e-03	-2.10e-03	-0.04	7.67e-05	4.07e-06	0.0
461	24	-6.33e-04	-3.68e-03	-0.04	8.13e-05	4.85e-06	0.0
461	28	-6.16e-04	-3.69e-03	-0.04	8.13e-05	4.78e-06	0.0
461	42	3.81e-03	-2.44e-03	-0.04	7.74e-05	3.63e-06	0.0
461	56	-1.08e-03	-4.95e-03	-0.04	8.46e-05	4.87e-06	0.0
461	60	-1.06e-03	-4.97e-03	-0.04	8.45e-05	4.75e-06	0.0
461	70	1.57e-04	-1.84e-03	-0.04	9.16e-05	5.91e-06	0.0
461	72	1.34e-04	-1.59e-03	-0.04	7.89e-05	5.04e-06	0.0
462	2	1.60e-04	-1.58e-03	-0.05	7.89e-05	5.41e-06	0.0
462	10	2.39e-03	-1.55e-03	-0.04	4.95e-05	2.97e-06	0.0
462	24	-6.33e-04	-3.09e-03	-0.04	5.22e-05	3.24e-06	0.0
462	28	-6.23e-04	-3.11e-03	-0.04	5.21e-05	3.20e-06	0.0
462	42	3.74e-03	-1.88e-03	-0.04	4.99e-05	2.79e-06	0.0
462	56	-1.06e-03	-4.34e-03	-0.04	5.42e-05	3.22e-06	0.0
462	60	-1.05e-03	-4.36e-03	-0.04	5.41e-05	3.16e-06	0.0
462	70	1.19e-04	-1.18e-03	-0.04	5.90e-05	4.04e-06	0.0

462	72	1.02e-04	-1.02e-03	-0.04	5.08e-05	3.43e-06	0.0
463	2	1.34e-04	-6.53e-04	-0.05	3.28e-05	4.14e-06	0.0
463	10	2.35e-03	-9.67e-04	-0.04	2.08e-05	2.41e-06	0.0
463	24	-6.16e-04	-2.49e-03	-0.04	2.24e-05	2.47e-06	0.0
463	28	-6.12e-04	-2.51e-03	-0.04	2.24e-05	2.46e-06	0.0
463	42	3.68e-03	-1.30e-03	-0.04	2.11e-05	2.36e-06	0.0
463	56	-1.03e-03	-3.73e-03	-0.04	2.37e-05	2.45e-06	0.0
463	60	-1.02e-03	-3.75e-03	-0.04	2.37e-05	2.44e-06	0.0
463	70	1.00e-04	-4.88e-04	-0.04	2.45e-05	3.09e-06	0.0
463	72	8.52e-05	-4.20e-04	-0.04	2.11e-05	2.61e-06	0.0
464	2	1.28e-04	2.97e-04	-0.05	-1.42e-05	3.91e-06	0.0
464	17	2.34e-03	7.46e-04	-0.04	-9.25e-06	2.29e-06	0.0
464	23	-6.05e-04	2.28e-03	-0.04	-1.07e-05	2.31e-06	0.0
464	35	-5.81e-04	1.99e-03	-0.04	-1.07e-05	2.31e-06	0.0
464	49	3.67e-03	1.08e-03	-0.04	-9.54e-06	2.26e-06	0.0
464	55	-1.01e-03	3.52e-03	-0.04	-1.18e-05	2.29e-06	0.0
464	67	-9.70e-04	3.06e-03	-0.04	-1.18e-05	2.29e-06	0.0
464	70	9.60e-05	2.22e-04	-0.04	-1.06e-05	2.91e-06	0.0
464	72	8.17e-05	1.91e-04	-0.04	-9.13e-06	2.46e-06	0.0
465	2	1.43e-04	1.24e-03	-0.05	-6.08e-05	4.68e-06	0.0
465	17	2.37e-03	1.33e-03	-0.04	-3.82e-05	2.60e-06	0.0
465	23	-6.24e-04	2.88e-03	-0.04	-4.03e-05	2.72e-06	0.0
465	27	-6.34e-04	2.87e-03	-0.04	-4.04e-05	2.75e-06	0.0
465	49	3.72e-03	1.66e-03	-0.04	-3.85e-05	2.48e-06	0.0
465	55	-1.04e-03	4.13e-03	-0.04	-4.20e-05	2.67e-06	0.0
465	59	-1.06e-03	4.11e-03	-0.04	-4.20e-05	2.71e-06	0.0
465	70	1.06e-04	9.26e-04	-0.04	-4.54e-05	3.49e-06	0.0
465	72	9.07e-05	7.97e-04	-0.04	-3.92e-05	2.95e-06	0.0
466	2	1.79e-04	2.15e-03	-0.05	-1.06e-04	6.61e-06	0.0
466	17	2.42e-03	1.90e-03	-0.04	-6.61e-05	3.44e-06	0.0
466	23	-6.27e-04	3.48e-03	-0.04	-6.99e-05	3.94e-06	0.0
466	27	-6.44e-04	3.46e-03	-0.04	-6.99e-05	4.00e-06	0.0
466	49	3.78e-03	2.24e-03	-0.04	-6.67e-05	3.09e-06	0.0
466	55	-1.06e-03	4.74e-03	-0.04	-7.26e-05	3.89e-06	0.0
466	59	-1.09e-03	4.73e-03	-0.04	-7.26e-05	3.99e-06	0.0
466	70	1.34e-04	1.60e-03	-0.04	-7.90e-05	4.94e-06	0.0
466	72	1.14e-04	1.38e-03	-0.04	-6.80e-05	4.20e-06	0.0
467	2	2.42e-04	2.97e-03	-0.06	-1.47e-04	1.00e-05	0.0
467	17	2.48e-03	2.42e-03	-0.04	-9.19e-05	4.94e-06	0.0
467	23	-6.09e-04	4.04e-03	-0.04	-9.78e-05	6.04e-06	0.0
467	27	-6.33e-04	4.02e-03	-0.04	-9.78e-05	6.15e-06	0.0
467	49	3.86e-03	2.76e-03	-0.04	-9.27e-05	4.24e-06	0.0
467	55	-1.06e-03	5.34e-03	-0.04	-1.02e-04	5.99e-06	0.0
467	59	-1.09e-03	5.32e-03	-0.04	-1.02e-04	6.17e-06	0.0
467	70	1.81e-04	2.22e-03	-0.04	-1.10e-04	7.49e-06	0.0
467	72	1.55e-04	1.91e-03	-0.04	-9.44e-05	6.39e-06	0.0
468	2	3.37e-04	3.66e-03	-0.07	-1.81e-04	1.52e-05	0.0
468	17	2.55e-03	2.85e-03	-0.05	-1.14e-04	7.27e-06	0.0
468	23	-5.66e-04	4.52e-03	-0.05	-1.22e-04	1.04e-05	0.0
468	27	-5.96e-04	4.51e-03	-0.05	-1.22e-04	1.05e-05	0.0
468	49	3.94e-03	3.21e-03	-0.05	-1.15e-04	6.08e-06	0.0
468	55	-1.02e-03	5.85e-03	-0.05	-1.28e-04	1.10e-05	0.0
468	59	-1.07e-03	5.84e-03	-0.05	-1.28e-04	1.13e-05	0.0
468	70	2.52e-04	2.74e-03	-0.05	-1.35e-04	1.14e-05	0.0
468	72	2.16e-04	2.35e-03	-0.05	-1.16e-04	9.70e-06	0.0
469	2	4.61e-04	4.15e-03	-0.08	-2.05e-04	2.19e-05	0.0
469	17	2.64e-03	3.16e-03	-0.05	-1.29e-04	1.04e-05	0.0
469	23	-4.98e-04	4.87e-03	-0.06	-1.39e-04	1.56e-05	0.0
469	27	-5.32e-04	4.86e-03	-0.06	-1.39e-04	1.58e-05	0.0
469	49	4.04e-03	3.52e-03	-0.05	-1.30e-04	8.62e-06	0.0
469	55	-9.58e-04	6.24e-03	-0.06	-1.47e-04	1.69e-05	0.0
469	59	-1.01e-03	6.22e-03	-0.06	-1.47e-04	1.73e-05	0.0
469	70	3.45e-04	3.10e-03	-0.06	-1.53e-04	1.64e-05	0.0
469	72	2.95e-04	2.66e-03	-0.05	-1.32e-04	1.40e-05	0.0
470	2	5.99e-04	4.37e-03	-0.09	-2.16e-04	2.93e-05	0.0
470	17	2.73e-03	3.30e-03	-0.06	-1.36e-04	1.57e-05	0.0
470	23	-4.12e-04	5.03e-03	-0.06	-1.47e-04	2.17e-05	0.0
470	27	-4.51e-04	5.02e-03	-0.06	-1.47e-04	2.21e-05	0.0
470	49	4.13e-03	3.67e-03	-0.06	-1.37e-04	1.45e-05	0.0
470	55	-8.71e-04	6.42e-03	-0.06	-1.56e-04	2.40e-05	0.0
470	59	-9.33e-04	6.40e-03	-0.06	-1.56e-04	2.46e-05	0.0
470	70	4.48e-04	3.26e-03	-0.07	-1.61e-04	2.19e-05	0.0
470	72	3.82e-04	2.80e-03	-0.06	-1.38e-04	1.87e-05	0.0
471	2	1.13e-03	-4.65e-03	-0.09	2.30e-04	5.64e-05	0.0
471	10	3.10e-03	-3.42e-03	-0.06	1.44e-04	3.36e-05	0.0
471	24	-9.32e-05	-5.29e-03	-0.06	1.58e-04	3.97e-05	0.0

471	42	4.51e-03	-3.76e-03	-0.06	1.45e-04	3.30e-05	0.0
471	56	-5.59e-04	-6.72e-03	-0.07	1.69e-04	4.26e-05	0.0
471	70	8.48e-04	-3.47e-03	-0.07	1.72e-04	4.22e-05	0.0
471	72	7.27e-04	-2.98e-03	-0.06	1.47e-04	3.62e-05	0.0
472	2	9.58e-04	-4.53e-03	-0.08	2.24e-04	4.69e-05	0.0
472	10	2.98e-03	-3.35e-03	-0.06	1.40e-04	2.80e-05	0.0
472	24	-2.15e-04	-5.19e-03	-0.06	1.54e-04	3.20e-05	0.0
472	42	4.39e-03	-3.68e-03	-0.06	1.41e-04	2.75e-05	0.0
472	56	-6.90e-04	-6.61e-03	-0.06	1.63e-04	3.39e-05	0.0
472	70	7.17e-04	-3.38e-03	-0.06	1.67e-04	3.51e-05	0.0
472	72	6.16e-04	-2.90e-03	-0.06	1.44e-04	3.01e-05	0.0
473	2	6.79e-04	-4.10e-03	-0.07	2.03e-04	3.18e-05	0.0
473	10	2.79e-03	-3.07e-03	-0.05	1.26e-04	1.82e-05	0.0
473	24	-3.90e-04	-4.86e-03	-0.05	1.38e-04	2.08e-05	0.0
473	42	4.19e-03	-3.40e-03	-0.05	1.27e-04	1.74e-05	0.0
473	56	-8.68e-04	-6.25e-03	-0.05	1.45e-04	2.15e-05	0.0
473	70	5.08e-04	-3.06e-03	-0.05	1.51e-04	2.38e-05	0.0
473	72	4.37e-04	-2.63e-03	-0.05	1.30e-04	2.05e-05	0.0
474	2	4.58e-04	-3.41e-03	-0.06	1.69e-04	2.02e-05	0.0
474	10	2.64e-03	-2.64e-03	-0.05	1.05e-04	1.18e-05	0.0
474	24	-5.13e-04	-4.37e-03	-0.05	1.13e-04	1.23e-05	0.0
474	42	4.02e-03	-2.96e-03	-0.05	1.06e-04	1.14e-05	0.0
474	56	-9.82e-04	-5.71e-03	-0.05	1.19e-04	1.22e-05	0.0
474	70	3.42e-04	-2.55e-03	-0.05	1.26e-04	1.51e-05	0.0
474	72	2.95e-04	-2.19e-03	-0.05	1.09e-04	1.30e-05	0.0
475	2	3.05e-04	-2.57e-03	-0.06	1.27e-04	1.24e-05	0.0
475	10	2.52e-03	-2.12e-03	-0.04	7.93e-05	7.43e-06	0.0
475	24	-5.79e-04	-3.79e-03	-0.04	8.44e-05	7.31e-06	0.0
475	42	3.89e-03	-2.43e-03	-0.04	7.97e-05	7.29e-06	0.0
475	56	-1.03e-03	-5.09e-03	-0.04	8.78e-05	7.10e-06	0.0
475	70	2.29e-04	-1.92e-03	-0.04	9.52e-05	9.28e-06	0.0
475	72	1.97e-04	-1.65e-03	-0.04	8.20e-05	7.99e-06	0.0
476	2	2.13e-04	-1.64e-03	-0.05	8.16e-05	7.76e-06	0.0
476	10	2.43e-03	-1.54e-03	-0.04	5.09e-05	4.85e-06	0.0
476	24	-6.04e-04	-3.17e-03	-0.04	5.38e-05	4.45e-06	0.0
476	42	3.79e-03	-1.85e-03	-0.04	5.12e-05	4.89e-06	0.0
476	56	-1.04e-03	-4.44e-03	-0.04	5.58e-05	4.25e-06	0.0
476	70	1.59e-04	-1.23e-03	-0.04	6.10e-05	5.80e-06	0.0
476	72	1.37e-04	-1.06e-03	-0.04	5.26e-05	4.98e-06	0.0
477	2	1.66e-04	-6.75e-04	-0.05	3.39e-05	5.47e-06	0.0
477	10	2.37e-03	-9.64e-04	-0.04	2.14e-05	3.55e-06	0.0
477	26	7.55e-04	-2.54e-03	-0.04	2.29e-05	3.31e-06	0.0
477	28	-5.94e-04	-2.55e-03	-0.04	2.30e-05	3.17e-06	0.0
477	42	3.72e-03	-1.29e-03	-0.04	2.16e-05	3.66e-06	0.0
477	58	1.14e-03	-3.79e-03	-0.04	2.41e-05	3.28e-06	0.0
477	60	-1.00e-03	-3.80e-03	-0.04	2.41e-05	3.06e-06	0.0
477	70	1.24e-04	-5.04e-04	-0.04	2.53e-05	4.09e-06	0.0
477	72	1.06e-04	-4.34e-04	-0.04	2.18e-05	3.49e-06	0.0
478	2	1.57e-04	3.07e-04	-0.05	-1.45e-05	5.06e-06	0.0
478	17	2.36e-03	7.36e-04	-0.04	-9.41e-06	3.31e-06	0.0
478	25	7.64e-04	2.31e-03	-0.04	-1.08e-05	3.09e-06	0.0
478	29	7.88e-04	1.96e-03	-0.04	-1.08e-05	3.09e-06	0.0
478	49	3.70e-03	1.06e-03	-0.04	-9.66e-06	3.44e-06	0.0
478	57	1.16e-03	3.57e-03	-0.04	-1.18e-05	3.09e-06	0.0
478	61	1.20e-03	3.01e-03	-0.04	-1.18e-05	3.10e-06	0.0
478	70	1.17e-04	2.29e-04	-0.04	-1.09e-05	3.78e-06	0.0
478	72	1.01e-04	1.98e-04	-0.04	-9.37e-06	3.23e-06	0.0
479	2	1.84e-04	1.28e-03	-0.05	-6.27e-05	6.44e-06	0.0
479	17	2.41e-03	1.34e-03	-0.04	-3.92e-05	4.07e-06	0.0
479	25	7.53e-04	2.93e-03	-0.04	-4.13e-05	3.76e-06	0.0
479	27	-6.11e-04	2.93e-03	-0.04	-4.15e-05	3.64e-06	0.0
479	49	3.76e-03	1.67e-03	-0.04	-3.94e-05	4.14e-06	0.0
479	57	1.13e-03	4.20e-03	-0.04	-4.28e-05	3.64e-06	0.0
479	59	-1.04e-03	4.18e-03	-0.04	-4.31e-05	3.45e-06	0.0
479	70	1.38e-04	9.59e-04	-0.04	-4.69e-05	4.82e-06	0.0
479	72	1.18e-04	8.26e-04	-0.04	-4.04e-05	4.13e-06	0.0
480	2	2.52e-04	2.23e-03	-0.05	-1.10e-04	9.96e-06	0.0
480	17	2.48e-03	1.90e-03	-0.04	-6.82e-05	6.08e-06	0.0
480	27	-6.03e-04	3.56e-03	-0.04	-7.23e-05	5.72e-06	0.0
480	49	3.85e-03	2.22e-03	-0.04	-6.85e-05	6.03e-06	0.0
480	59	-1.05e-03	4.84e-03	-0.04	-7.51e-05	5.47e-06	0.0
480	70	1.89e-04	1.67e-03	-0.04	-8.18e-05	7.45e-06	0.0
480	72	1.62e-04	1.44e-03	-0.04	-7.05e-05	6.41e-06	0.0
481	2	3.74e-04	3.11e-03	-0.06	-1.53e-04	1.63e-05	0.0
481	17	2.58e-03	2.45e-03	-0.04	-9.53e-05	9.63e-06	0.0
481	27	-5.58e-04	4.16e-03	-0.04	-1.02e-04	9.80e-06	0.0

481	49	3.96e-03	2.77e-03	-0.04	-9.58e-05	9.35e-06	0.0
481	59	-1.02e-03	5.48e-03	-0.04	-1.07e-04	9.61e-06	0.0
481	70	2.80e-04	2.33e-03	-0.05	-1.14e-04	1.22e-05	0.0
481	72	2.41e-04	2.00e-03	-0.04	-9.85e-05	1.05e-05	0.0
482	2	5.64e-04	3.87e-03	-0.07	-1.90e-04	2.65e-05	0.0
482	17	2.72e-03	2.93e-03	-0.05	-1.19e-04	1.53e-05	0.0
482	27	-4.61e-04	4.69e-03	-0.05	-1.29e-04	1.62e-05	0.0
482	49	4.11e-03	3.25e-03	-0.05	-1.19e-04	1.46e-05	0.0
482	59	-9.39e-04	6.06e-03	-0.05	-1.35e-04	1.61e-05	0.0
482	70	4.22e-04	2.89e-03	-0.05	-1.42e-04	1.99e-05	0.0
482	72	3.64e-04	2.48e-03	-0.05	-1.22e-04	1.71e-05	0.0
483	2	8.23e-04	4.40e-03	-0.08	-2.17e-04	4.05e-05	0.0
483	17	2.89e-03	3.27e-03	-0.06	-1.35e-04	2.42e-05	0.0
483	27	-3.05e-04	5.09e-03	-0.06	-1.48e-04	2.72e-05	0.0
483	49	4.30e-03	3.60e-03	-0.06	-1.37e-04	2.38e-05	0.0
483	59	-7.85e-04	6.49e-03	-0.06	-1.57e-04	2.85e-05	0.0
483	70	6.16e-04	3.29e-03	-0.06	-1.62e-04	3.03e-05	0.0
483	72	5.29e-04	2.82e-03	-0.06	-1.39e-04	2.60e-05	0.0
484	2	1.12e-03	4.64e-03	-0.09	-2.28e-04	5.62e-05	0.0
484	17	3.09e-03	3.42e-03	-0.06	-1.43e-04	3.36e-05	0.0
484	27	-1.06e-04	5.28e-03	-0.06	-1.57e-04	3.94e-05	0.0
484	49	4.51e-03	3.76e-03	-0.06	-1.44e-04	3.31e-05	0.0
484	59	-5.75e-04	6.71e-03	-0.07	-1.67e-04	4.23e-05	0.0
484	70	8.37e-04	3.46e-03	-0.07	-1.70e-04	4.20e-05	0.0
484	72	7.18e-04	2.97e-03	-0.06	-1.46e-04	3.60e-05	0.0
485	2	1.34e-03	-5.11e-03	-0.09	2.50e-04	6.79e-05	0.0
485	10	3.28e-03	-3.69e-03	-0.06	1.56e-04	4.34e-05	0.0
485	24	2.14e-05	-5.66e-03	-0.07	1.74e-04	4.61e-05	0.0
485	42	4.74e-03	-4.01e-03	-0.06	1.58e-04	4.43e-05	0.0
485	56	-4.51e-04	-7.16e-03	-0.07	1.86e-04	4.87e-05	0.0
485	70	9.99e-04	-3.81e-03	-0.07	1.87e-04	5.08e-05	0.0
485	72	8.58e-04	-3.26e-03	-0.07	1.60e-04	4.36e-05	0.0
486	2	1.10e-03	-5.00e-03	-0.09	2.45e-04	5.51e-05	0.0
486	10	3.12e-03	-3.61e-03	-0.06	1.53e-04	3.51e-05	0.0
486	24	-1.37e-04	-5.56e-03	-0.06	1.69e-04	3.63e-05	0.0
486	42	4.55e-03	-3.93e-03	-0.06	1.54e-04	3.57e-05	0.0
486	56	-6.20e-04	-7.04e-03	-0.06	1.80e-04	3.76e-05	0.0
486	70	8.25e-04	-3.73e-03	-0.06	1.83e-04	4.12e-05	0.0
486	72	7.11e-04	-3.20e-03	-0.06	1.57e-04	3.55e-05	0.0
487	2	7.45e-04	-4.45e-03	-0.07	2.19e-04	3.50e-05	0.0
487	10	2.87e-03	-3.26e-03	-0.05	1.36e-04	2.23e-05	0.0
487	24	-3.68e-04	-5.15e-03	-0.05	1.49e-04	2.11e-05	0.0
487	42	4.30e-03	-3.57e-03	-0.05	1.37e-04	2.26e-05	0.0
487	56	-8.59e-04	-6.57e-03	-0.05	1.58e-04	2.08e-05	0.0
487	70	5.58e-04	-3.33e-03	-0.06	1.63e-04	2.62e-05	0.0
487	72	4.82e-04	-2.86e-03	-0.05	1.40e-04	2.26e-05	0.0
488	2	4.70e-04	-3.65e-03	-0.06	1.80e-04	2.06e-05	0.0
488	10	2.67e-03	-2.77e-03	-0.05	1.12e-04	1.35e-05	0.0
488	24	-5.17e-04	-4.56e-03	-0.05	1.20e-04	1.19e-05	0.0
488	42	4.08e-03	-3.07e-03	-0.05	1.12e-04	1.40e-05	0.0
488	56	-9.94e-04	-5.92e-03	-0.05	1.26e-04	1.13e-05	0.0
488	70	3.52e-04	-2.73e-03	-0.05	1.34e-04	1.54e-05	0.0
488	72	3.04e-04	-2.35e-03	-0.05	1.16e-04	1.33e-05	0.0
489	2	2.94e-04	-2.72e-03	-0.06	1.34e-04	1.16e-05	0.0
489	10	2.53e-03	-2.19e-03	-0.04	8.34e-05	7.90e-06	0.0
489	24	-5.92e-04	-3.91e-03	-0.04	8.85e-05	6.41e-06	0.0
489	42	3.92e-03	-2.49e-03	-0.04	8.37e-05	8.31e-06	0.0
489	56	-1.05e-03	-5.23e-03	-0.04	9.18e-05	5.94e-06	0.0
489	70	2.20e-04	-2.03e-03	-0.04	1.00e-04	8.71e-06	0.0
489	72	1.90e-04	-1.75e-03	-0.04	8.63e-05	7.51e-06	0.0
490	2	1.92e-04	-1.72e-03	-0.05	8.52e-05	6.55e-06	0.0
490	10	2.43e-03	-1.57e-03	-0.04	5.31e-05	4.65e-06	0.0
490	24	-6.20e-04	-3.25e-03	-0.04	5.59e-05	3.47e-06	0.0
490	26	7.40e-04	-3.23e-03	-0.04	5.57e-05	3.86e-06	0.0
490	42	3.80e-03	-1.87e-03	-0.04	5.34e-05	5.01e-06	0.0
490	56	-1.05e-03	-4.53e-03	-0.04	5.77e-05	3.14e-06	0.0
490	58	1.11e-03	-4.52e-03	-0.04	5.74e-05	3.76e-06	0.0
490	70	1.43e-04	-1.29e-03	-0.04	6.37e-05	4.90e-06	0.0
490	72	1.23e-04	-1.11e-03	-0.04	5.49e-05	4.20e-06	0.0
491	2	1.42e-04	-7.05e-04	-0.05	3.52e-05	4.12e-06	0.0
491	10	2.37e-03	-9.76e-04	-0.04	2.22e-05	3.08e-06	0.0
491	22	7.47e-04	-2.59e-03	-0.04	2.36e-05	2.56e-06	0.0
491	26	7.43e-04	-2.58e-03	-0.04	2.36e-05	2.54e-06	0.0
491	42	3.71e-03	-1.30e-03	-0.04	2.24e-05	3.41e-06	0.0
491	54	1.14e-03	-3.86e-03	-0.04	2.46e-05	2.58e-06	0.0
491	58	1.13e-03	-3.85e-03	-0.04	2.46e-05	2.56e-06	0.0

491	70	1.06e-04	-5.26e-04	-0.04	2.63e-05	3.08e-06	0.0
491	72	9.08e-05	-4.53e-04	-0.04	2.27e-05	2.62e-06	0.0
492	2	1.32e-04	3.20e-04	-0.05	-1.50e-05	3.68e-06	0.0
492	9	2.34e-03	7.02e-04	-0.04	-9.76e-06	2.77e-06	0.0
492	17	2.36e-03	7.38e-04	-0.04	-9.71e-06	2.80e-06	0.0
492	25	7.52e-04	2.35e-03	-0.04	-1.09e-05	2.33e-06	0.0
492	41	3.68e-03	9.99e-04	-0.04	-1.00e-05	3.09e-06	0.0
492	49	3.70e-03	1.06e-03	-0.04	-9.95e-06	3.14e-06	0.0
492	57	1.15e-03	3.62e-03	-0.04	-1.18e-05	2.39e-06	0.0
492	70	9.91e-05	2.39e-04	-0.04	-1.12e-05	2.75e-06	0.0
492	72	8.48e-05	2.06e-04	-0.04	-9.69e-06	2.34e-06	0.0
493	2	1.61e-04	1.34e-03	-0.05	-6.52e-05	5.12e-06	0.0
493	17	2.41e-03	1.33e-03	-0.04	-4.07e-05	3.74e-06	0.0
493	27	-6.28e-04	3.00e-03	-0.04	-4.29e-05	2.64e-06	0.0
493	29	8.44e-04	2.57e-03	-0.04	-4.26e-05	3.02e-06	0.0
493	49	3.77e-03	1.63e-03	-0.04	-4.09e-05	4.09e-06	0.0
493	59	-1.06e-03	4.28e-03	-0.04	-4.43e-05	2.34e-06	0.0
493	61	1.28e-03	3.60e-03	-0.04	-4.39e-05	2.95e-06	0.0
493	70	1.20e-04	1.00e-03	-0.04	-4.87e-05	3.83e-06	0.0
493	72	1.03e-04	8.64e-04	-0.04	-4.20e-05	3.28e-06	0.0
494	2	2.35e-04	2.35e-03	-0.05	-1.15e-04	8.86e-06	0.0
494	17	2.48e-03	1.96e-03	-0.04	-7.14e-05	6.15e-06	0.0
494	27	-6.18e-04	3.66e-03	-0.04	-7.54e-05	4.72e-06	0.0
494	49	3.87e-03	2.26e-03	-0.04	-7.16e-05	6.54e-06	0.0
494	59	-1.07e-03	4.96e-03	-0.04	-7.81e-05	4.27e-06	0.0
494	70	1.76e-04	1.76e-03	-0.04	-8.57e-05	6.63e-06	0.0
494	72	1.52e-04	1.51e-03	-0.04	-7.38e-05	5.72e-06	0.0
495	2	3.71e-04	3.32e-03	-0.06	-1.62e-04	1.59e-05	0.0
495	17	2.60e-03	2.56e-03	-0.04	-1.01e-04	1.06e-05	0.0
495	27	-5.70e-04	4.32e-03	-0.04	-1.08e-04	8.91e-06	0.0
495	49	4.01e-03	2.86e-03	-0.04	-1.01e-04	1.10e-05	0.0
495	59	-1.04e-03	5.66e-03	-0.04	-1.12e-04	8.33e-06	0.0
495	70	2.78e-04	2.48e-03	-0.05	-1.21e-04	1.19e-05	0.0
495	72	2.40e-04	2.13e-03	-0.04	-1.04e-04	1.03e-05	0.0
496	2	5.95e-04	4.18e-03	-0.07	-2.04e-04	2.80e-05	0.0
496	17	2.77e-03	3.10e-03	-0.05	-1.27e-04	1.80e-05	0.0
496	27	-4.61e-04	4.94e-03	-0.05	-1.38e-04	1.66e-05	0.0
496	49	4.19e-03	3.40e-03	-0.05	-1.28e-04	1.84e-05	0.0
496	59	-9.52e-04	6.34e-03	-0.05	-1.46e-04	1.61e-05	0.0
496	70	4.45e-04	3.12e-03	-0.05	-1.53e-04	2.10e-05	0.0
496	72	3.85e-04	2.68e-03	-0.05	-1.31e-04	1.81e-05	0.0
497	2	9.16e-04	4.84e-03	-0.08	-2.36e-04	4.62e-05	0.0
497	17	3.00e-03	3.52e-03	-0.06	-1.47e-04	2.96e-05	0.0
497	27	-2.65e-04	5.43e-03	-0.06	-1.62e-04	2.97e-05	0.0
497	49	4.43e-03	3.84e-03	-0.06	-1.48e-04	3.02e-05	0.0
497	59	-7.56e-04	6.89e-03	-0.06	-1.72e-04	3.03e-05	0.0
497	70	6.86e-04	3.62e-03	-0.06	-1.76e-04	3.46e-05	0.0
497	72	5.91e-04	3.10e-03	-0.06	-1.51e-04	2.98e-05	0.0
498	2	1.32e-03	5.09e-03	-0.09	-2.48e-04	6.76e-05	0.0
498	17	3.28e-03	3.68e-03	-0.06	-1.55e-04	4.32e-05	0.0
498	27	1.28e-05	5.65e-03	-0.07	-1.73e-04	4.59e-05	0.0
498	49	4.73e-03	4.02e-03	-0.06	-1.57e-04	4.41e-05	0.0
498	59	-4.61e-04	7.14e-03	-0.07	-1.85e-04	4.84e-05	0.0
498	70	9.90e-04	3.80e-03	-0.07	-1.86e-04	5.05e-05	0.0
498	72	8.50e-04	3.25e-03	-0.07	-1.59e-04	4.34e-05	0.0
499	2	1.03e-03	-5.92e-03	-0.10	2.85e-04	5.20e-05	0.0
499	10	3.15e-03	-4.18e-03	-0.07	1.78e-04	3.64e-05	0.0
499	24	-1.99e-04	-6.29e-03	-0.07	1.99e-04	3.44e-05	0.0
499	42	4.64e-03	-4.51e-03	-0.07	1.81e-04	3.89e-05	0.0
499	56	-6.89e-04	-7.88e-03	-0.07	2.14e-04	3.58e-05	0.0
499	70	7.68e-04	-4.42e-03	-0.07	2.13e-04	3.89e-05	0.0
499	72	6.60e-04	-3.77e-03	-0.07	1.82e-04	3.34e-05	0.0
500	2	6.00e-04	-5.97e-03	-0.09	2.84e-04	3.40e-05	0.0
500	10	2.89e-03	-4.18e-03	-0.06	1.77e-04	2.52e-05	0.0
500	24	-5.14e-04	-6.30e-03	-0.06	1.98e-04	1.93e-05	0.0
500	42	4.38e-03	-4.49e-03	-0.06	1.78e-04	2.75e-05	0.0
500	56	-1.04e-03	-7.86e-03	-0.06	2.12e-04	1.82e-05	0.0
500	70	4.50e-04	-4.46e-03	-0.07	2.12e-04	2.55e-05	0.0
500	72	3.92e-04	-3.81e-03	-0.06	1.82e-04	2.20e-05	0.0
501	2	4.74e-04	-4.86e-03	-0.08	2.37e-04	2.20e-05	0.0
501	10	2.77e-03	-3.50e-03	-0.05	1.47e-04	1.69e-05	0.0
501	24	-5.60e-04	-5.43e-03	-0.05	1.60e-04	1.20e-05	0.0
501	42	4.23e-03	-3.80e-03	-0.05	1.48e-04	1.89e-05	0.0
501	56	-1.06e-03	-6.88e-03	-0.06	1.69e-04	1.11e-05	0.0
501	70	3.55e-04	-3.63e-03	-0.06	1.77e-04	1.65e-05	0.0
501	72	3.07e-04	-3.11e-03	-0.05	1.52e-04	1.42e-05	0.0

502	2	2.73e-04	-3.88e-03	-0.06	1.90e-04	1.07e-05	0.0
502	10	2.58e-03	-2.89e-03	-0.05	1.19e-04	8.88e-06	0.0
502	24	-6.46e-04	-4.73e-03	-0.05	1.27e-04	5.26e-06	0.0
502	26	7.36e-04	-4.71e-03	-0.05	1.26e-04	6.52e-06	0.0
502	42	4.01e-03	-3.19e-03	-0.05	1.19e-04	1.02e-05	0.0
502	56	-1.13e-03	-6.11e-03	-0.05	1.32e-04	4.44e-06	0.0
502	58	1.07e-03	-6.08e-03	-0.05	1.31e-04	6.44e-06	0.0
502	70	2.04e-04	-2.90e-03	-0.05	1.42e-04	8.03e-06	0.0
502	72	1.76e-04	-2.50e-03	-0.05	1.22e-04	6.92e-06	0.0
503	2	1.51e-04	-2.85e-03	-0.06	1.40e-04	4.46e-06	0.0
503	10	2.46e-03	-2.25e-03	-0.04	8.74e-05	4.28e-06	0.0
503	22	7.11e-04	-4.00e-03	-0.04	9.16e-05	2.79e-06	0.0
503	24	-6.82e-04	-4.02e-03	-0.04	9.19e-05	1.76e-06	0.0
503	42	3.86e-03	-2.54e-03	-0.04	8.80e-05	5.19e-06	0.0
503	54	1.08e-03	-5.32e-03	-0.04	9.46e-05	2.83e-06	0.0
503	56	-1.14e-03	-5.35e-03	-0.04	9.50e-05	1.19e-06	0.0
503	70	1.13e-04	-2.13e-03	-0.04	1.05e-04	3.34e-06	0.0
503	72	9.65e-05	-1.83e-03	-0.04	9.01e-05	2.85e-06	0.0
504	2	8.50e-05	-1.79e-03	-0.05	8.82e-05	1.22e-06	0.0
504	10	2.38e-03	-1.59e-03	-0.04	5.53e-05	1.81e-06	0.0
504	22	6.92e-04	-3.30e-03	-0.04	5.74e-05	0.0	0.0
504	24	-6.86e-04	-3.31e-03	-0.04	5.75e-05	0.0	0.0
504	42	3.75e-03	-1.88e-03	-0.04	5.56e-05	2.46e-06	0.0
504	54	1.07e-03	-4.59e-03	-0.04	5.91e-05	0.0	0.0
504	56	-1.12e-03	-4.62e-03	-0.04	5.92e-05	0.0	0.0
504	70	6.34e-05	-1.34e-03	-0.04	6.60e-05	0.0	0.0
504	72	5.37e-05	-1.15e-03	-0.04	5.69e-05	0.0	0.0
505	2	5.47e-05	-7.29e-04	-0.05	3.64e-05	0.0	0.0
505	10	2.32e-03	-9.34e-04	-0.04	2.30e-05	0.0	0.0
505	24	-6.71e-04	-2.63e-03	-0.04	2.42e-05	0.0	0.0
505	42	3.67e-03	-1.22e-03	-0.04	2.33e-05	1.19e-06	0.0
505	56	-1.09e-03	-3.92e-03	-0.04	2.51e-05	0.0	0.0
505	70	4.07e-05	-5.45e-04	-0.04	2.72e-05	0.0	0.0
505	72	3.40e-05	-4.69e-04	-0.04	2.35e-05	0.0	0.0
506	2	4.90e-05	3.30e-04	-0.05	-1.54e-05	0.0	0.0
506	17	2.31e-03	6.86e-04	-0.04	-9.98e-06	0.0	0.0
506	27	-6.63e-04	2.38e-03	-0.04	-1.10e-05	0.0	0.0
506	49	3.66e-03	9.70e-04	-0.04	-1.02e-05	0.0	0.0
506	59	-1.07e-03	3.67e-03	-0.04	-1.18e-05	0.0	0.0
506	70	3.65e-05	2.47e-04	-0.04	-1.15e-05	0.0	0.0
506	72	3.03e-05	2.13e-04	-0.04	-9.95e-06	0.0	0.0
507	2	6.59e-05	1.39e-03	-0.05	-6.73e-05	0.0	0.0
507	17	2.36e-03	1.34e-03	-0.04	-4.22e-05	1.18e-06	0.0
507	27	-6.87e-04	3.05e-03	-0.04	-4.39e-05	0.0	0.0
507	33	8.00e-04	2.56e-03	-0.04	-4.37e-05	0.0	0.0
507	49	3.72e-03	1.63e-03	-0.04	-4.25e-05	1.79e-06	0.0
507	59	-1.12e-03	4.35e-03	-0.04	-4.52e-05	0.0	0.0
507	65	1.25e-03	3.57e-03	-0.04	-4.50e-05	0.0	0.0
507	70	4.92e-05	1.04e-03	-0.04	-5.03e-05	0.0	0.0
507	72	4.14e-05	8.95e-04	-0.04	-4.34e-05	0.0	0.0
508	2	1.12e-04	2.45e-03	-0.05	-1.19e-04	2.64e-06	0.0
508	17	2.42e-03	2.00e-03	-0.04	-7.44e-05	2.98e-06	0.0
508	25	6.95e-04	3.73e-03	-0.04	-7.77e-05	1.64e-06	0.0
508	27	-6.95e-04	3.75e-03	-0.04	-7.79e-05	0.0	0.0
508	49	3.81e-03	2.29e-03	-0.04	-7.49e-05	3.80e-06	0.0
508	57	1.07e-03	5.04e-03	-0.04	-8.01e-05	1.68e-06	0.0
508	59	-1.15e-03	5.07e-03	-0.04	-8.03e-05	0.0	0.0
508	70	8.34e-05	1.83e-03	-0.04	-8.90e-05	1.97e-06	0.0
508	72	7.12e-05	1.58e-03	-0.04	-7.67e-05	1.66e-06	0.0
509	2	2.00e-04	3.50e-03	-0.06	-1.70e-04	7.24e-06	0.0
509	17	2.52e-03	2.66e-03	-0.04	-1.06e-04	6.46e-06	0.0
509	21	6.98e-04	4.44e-03	-0.04	-1.12e-04	4.31e-06	0.0
509	27	-6.79e-04	4.46e-03	-0.04	-1.13e-04	3.19e-06	0.0
509	49	3.94e-03	2.95e-03	-0.04	-1.07e-04	7.63e-06	0.0
509	53	1.04e-03	5.79e-03	-0.05	-1.16e-04	4.22e-06	0.0
509	59	-1.15e-03	5.82e-03	-0.05	-1.17e-04	2.43e-06	0.0
509	70	1.50e-04	2.62e-03	-0.05	-1.27e-04	5.42e-06	0.0
509	72	1.29e-04	2.25e-03	-0.04	-1.10e-04	4.67e-06	0.0
510	2	3.39e-04	4.52e-03	-0.07	-2.19e-04	1.55e-05	0.0
510	17	2.67e-03	3.29e-03	-0.05	-1.37e-04	1.24e-05	0.0
510	27	-6.34e-04	5.18e-03	-0.05	-1.47e-04	7.93e-06	0.0
510	49	4.11e-03	3.59e-03	-0.05	-1.37e-04	1.41e-05	0.0
510	59	-1.13e-03	6.60e-03	-0.05	-1.54e-04	6.93e-06	0.0
510	70	2.54e-04	3.38e-03	-0.05	-1.64e-04	1.16e-05	0.0
510	72	2.20e-04	2.90e-03	-0.05	-1.41e-04	1.00e-05	0.0
511	2	3.17e-04	5.70e-03	-0.08	-2.71e-04	2.16e-05	0.0

511	17	2.71e-03	4.01e-03	-0.06	-1.69e-04	1.76e-05	0.0
511	27	-7.04e-04	6.07e-03	-0.06	-1.87e-04	1.14e-05	0.0
511	49	4.19e-03	4.32e-03	-0.06	-1.70e-04	1.99e-05	0.0
511	59	-1.24e-03	7.58e-03	-0.06	-1.99e-04	1.00e-05	0.0
511	70	2.39e-04	4.26e-03	-0.06	-2.03e-04	1.62e-05	0.0
511	72	2.12e-04	3.65e-03	-0.06	-1.74e-04	1.41e-05	0.0
512	2	1.02e-03	5.89e-03	-0.10	-2.83e-04	5.17e-05	0.0
512	17	3.14e-03	4.23e-03	-0.07	-1.78e-04	3.61e-05	0.0
512	21	1.20e-03	6.27e-03	-0.07	-1.98e-04	3.61e-05	0.0
512	27	-1.96e-04	6.25e-03	-0.07	-1.98e-04	3.44e-05	0.0
512	49	4.63e-03	4.61e-03	-0.07	-1.81e-04	3.86e-05	0.0
512	53	1.53e-03	7.85e-03	-0.07	-2.12e-04	3.87e-05	0.0
512	59	-6.83e-04	7.82e-03	-0.07	-2.13e-04	3.59e-05	0.0
512	70	7.65e-04	4.40e-03	-0.07	-2.12e-04	3.86e-05	0.0
512	72	6.57e-04	3.75e-03	-0.07	-1.81e-04	3.32e-05	0.0
513	1	2.55e-04	3.13e-03	-0.06	-1.55e-04	7.26e-06	0.0
513	2	1.95e-04	3.74e-03	-0.07	-1.85e-04	2.86e-06	0.0
513	13	2.89e-03	2.75e-03	-0.05	-1.27e-04	2.11e-05	0.0
513	17	2.99e-03	2.41e-03	-0.05	-1.26e-04	2.08e-05	0.0
513	21	8.52e-04	5.27e-03	-0.05	-1.30e-04	9.50e-06	0.0
513	45	4.48e-03	2.96e-03	-0.05	-1.32e-04	3.04e-05	0.0
513	49	4.63e-03	2.41e-03	-0.05	-1.31e-04	2.98e-05	0.0
513	53	1.24e-03	6.95e-03	-0.05	-1.36e-04	1.19e-05	0.0
513	69	1.93e-04	2.40e-03	-0.05	-1.19e-04	5.43e-06	0.0
513	70	1.53e-04	2.81e-03	-0.05	-1.39e-04	2.49e-06	0.0
513	71	1.93e-04	2.40e-03	-0.05	-1.19e-04	5.43e-06	0.0
513	72	1.85e-04	2.48e-03	-0.05	-1.23e-04	4.84e-06	0.0
514	2	-3.56e-04	-5.89e-03	-0.09	2.92e-04	-2.09e-05	0.0
514	11	-2.92e-03	-2.99e-03	-0.06	1.73e-04	-2.42e-05	0.0
514	22	4.13e-04	-6.22e-03	-0.06	2.03e-04	-1.03e-05	0.0
514	26	3.45e-04	-6.22e-03	-0.06	2.03e-04	-1.14e-05	0.0
514	43	-4.51e-03	-2.62e-03	-0.06	1.70e-04	-3.07e-05	0.0
514	54	7.91e-04	-7.76e-03	-0.07	2.17e-04	-8.57e-06	0.0
514	58	6.83e-04	-7.77e-03	-0.07	2.17e-04	-1.04e-05	0.0
514	70	-2.67e-04	-4.40e-03	-0.07	2.18e-04	-1.56e-05	0.0
514	72	-2.35e-04	-3.77e-03	-0.06	1.87e-04	-1.37e-05	0.0
515	2	-2.46e-04	-5.04e-03	-0.08	2.46e-04	-1.57e-05	0.0
515	11	-2.66e-03	-2.51e-03	-0.05	1.47e-04	-1.44e-05	0.0
515	22	4.54e-04	-5.57e-03	-0.05	1.66e-04	-8.86e-06	0.0
515	26	4.10e-04	-5.57e-03	-0.05	1.66e-04	-9.33e-06	0.0
515	43	-4.13e-03	-2.16e-03	-0.05	1.45e-04	-1.70e-05	0.0
515	54	8.14e-04	-7.03e-03	-0.06	1.75e-04	-8.22e-06	0.0
515	58	7.44e-04	-7.03e-03	-0.06	1.75e-04	-8.97e-06	0.0
515	70	-1.84e-04	-3.76e-03	-0.06	1.84e-04	-1.18e-05	0.0
515	72	-1.62e-04	-3.23e-03	-0.05	1.58e-04	-1.03e-05	0.0
516	2	-1.93e-04	-3.98e-03	-0.06	1.94e-04	-1.28e-05	0.0
516	11	-2.56e-03	-1.89e-03	-0.05	1.17e-04	-1.12e-05	0.0
516	22	4.96e-04	-4.81e-03	-0.05	1.29e-04	-7.34e-06	0.0
516	26	4.63e-04	-4.82e-03	-0.05	1.29e-04	-7.65e-06	0.0
516	43	-3.99e-03	-1.55e-03	-0.05	1.16e-04	-1.30e-05	0.0
516	54	8.62e-04	-6.20e-03	-0.05	1.34e-04	-6.89e-06	0.0
516	58	8.09e-04	-6.21e-03	-0.05	1.34e-04	-7.40e-06	0.0
516	70	-1.45e-04	-2.97e-03	-0.05	1.45e-04	-9.57e-06	0.0
516	72	-1.27e-04	-2.56e-03	-0.05	1.25e-04	-8.39e-06	0.0
517	2	-1.52e-04	-2.89e-03	-0.06	1.42e-04	-1.06e-05	0.0
517	11	-2.47e-03	-1.23e-03	-0.04	8.58e-05	-8.67e-06	0.0
517	22	5.35e-04	-4.07e-03	-0.04	9.29e-05	-6.25e-06	0.0
517	26	5.12e-04	-4.07e-03	-0.04	9.29e-05	-6.43e-06	0.0
517	43	-3.88e-03	-9.09e-04	-0.04	8.48e-05	-9.82e-06	0.0
517	54	9.08e-04	-5.42e-03	-0.04	9.60e-05	-5.97e-06	0.0
517	58	8.71e-04	-5.43e-03	-0.04	9.59e-05	-6.26e-06	0.0
517	70	-1.14e-04	-2.16e-03	-0.04	1.06e-04	-7.93e-06	0.0
517	72	-1.01e-04	-1.86e-03	-0.04	9.13e-05	-6.97e-06	0.0
518	2	-1.23e-04	-1.81e-03	-0.05	8.90e-05	-9.01e-06	0.0
518	11	-2.41e-03	-5.75e-04	-0.04	5.39e-05	-7.08e-06	0.0
518	22	5.69e-04	-3.35e-03	-0.04	5.79e-05	-5.42e-06	0.0
518	26	5.56e-04	-3.36e-03	-0.04	5.79e-05	-5.52e-06	0.0
518	43	-3.79e-03	-2.56e-04	-0.04	5.32e-05	-7.86e-06	0.0
518	54	9.52e-04	-4.68e-03	-0.04	5.96e-05	-5.23e-06	0.0
518	58	9.30e-04	-4.68e-03	-0.04	5.95e-05	-5.38e-06	0.0
518	70	-9.24e-05	-1.35e-03	-0.04	6.65e-05	-6.77e-06	0.0
518	72	-8.20e-05	-1.16e-03	-0.04	5.73e-05	-5.96e-06	0.0
519	2	-1.06e-04	-7.34e-04	-0.05	3.66e-05	-8.14e-06	0.0
519	10	2.22e-03	-9.14e-04	-0.04	2.34e-05	-4.22e-06	0.0
519	11	-2.36e-03	6.60e-06	-0.04	2.19e-05	-6.21e-06	0.0
519	26	5.93e-04	-2.67e-03	-0.04	2.42e-05	-4.98e-06	0.0

519	42	3.58e-03	-1.19e-03	-0.04	2.38e-05	-3.63e-06	0.0
519	43	-3.71e-03	2.78e-04	-0.04	2.15e-05	-6.80e-06	0.0
519	58	9.84e-04	-3.97e-03	-0.04	2.51e-05	-4.83e-06	0.0
519	70	-8.00e-05	-5.48e-04	-0.04	2.73e-05	-6.11e-06	0.0
519	72	-7.13e-05	-4.73e-04	-0.04	2.36e-05	-5.39e-06	0.0
520	2	-1.03e-04	3.32e-04	-0.05	-1.55e-05	-7.97e-06	0.0
520	17	2.22e-03	6.63e-04	-0.04	-1.03e-05	-4.16e-06	0.0
520	20	-2.35e-03	-2.52e-04	-0.04	-8.95e-06	-6.06e-06	0.0
520	21	6.05e-04	2.41e-03	-0.04	-1.09e-05	-4.82e-06	0.0
520	49	3.57e-03	9.33e-04	-0.04	-1.06e-05	-3.60e-06	0.0
520	52	-3.70e-03	-5.22e-04	-0.04	-8.56e-06	-6.62e-06	0.0
520	53	1.00e-03	3.72e-03	-0.04	-1.16e-05	-4.65e-06	0.0
520	70	-7.78e-05	2.48e-04	-0.04	-1.16e-05	-5.99e-06	0.0
520	72	-6.94e-05	2.14e-04	-0.04	-9.99e-06	-5.28e-06	0.0
521	2	-1.14e-04	1.40e-03	-0.05	-6.77e-05	-8.51e-06	0.0
521	17	2.25e-03	1.33e-03	-0.04	-4.29e-05	-4.25e-06	0.0
521	20	-2.39e-03	4.03e-04	-0.04	-4.09e-05	-6.65e-06	0.0
521	21	5.70e-04	3.09e-03	-0.04	-4.41e-05	-5.21e-06	0.0
521	49	3.62e-03	1.60e-03	-0.04	-4.34e-05	-3.54e-06	0.0
521	52	-3.76e-03	1.30e-04	-0.04	-4.04e-05	-7.36e-06	0.0
521	53	9.50e-04	4.41e-03	-0.04	-4.53e-05	-5.07e-06	0.0
521	70	-8.59e-05	1.05e-03	-0.04	-5.06e-05	-6.40e-06	0.0
521	72	-7.64e-05	9.02e-04	-0.04	-4.36e-05	-5.64e-06	0.0
522	2	-1.38e-04	2.48e-03	-0.05	-1.20e-04	-9.73e-06	0.0
522	20	-2.45e-03	9.85e-04	-0.04	-7.29e-05	-7.93e-06	0.0
522	21	5.29e-04	3.80e-03	-0.04	-7.85e-05	-5.93e-06	0.0
522	25	5.51e-04	3.80e-03	-0.04	-7.85e-05	-5.78e-06	0.0
522	52	-3.85e-03	6.63e-04	-0.04	-7.20e-05	-8.95e-06	0.0
522	53	8.94e-04	5.14e-03	-0.04	-8.09e-05	-5.77e-06	0.0
522	57	9.29e-04	5.13e-03	-0.04	-8.10e-05	-5.53e-06	0.0
522	70	-1.03e-04	1.85e-03	-0.04	-8.99e-05	-7.31e-06	0.0
522	72	-9.17e-05	1.60e-03	-0.04	-7.75e-05	-6.43e-06	0.0
523	2	-1.72e-04	3.57e-03	-0.06	-1.73e-04	-1.16e-05	0.0
523	20	-2.53e-03	1.64e-03	-0.04	-1.05e-04	-1.00e-05	0.0
523	21	4.84e-04	4.53e-03	-0.04	-1.14e-04	-6.97e-06	0.0
523	25	5.16e-04	4.53e-03	-0.04	-1.14e-04	-6.71e-06	0.0
523	52	-3.95e-03	1.31e-03	-0.04	-1.03e-04	-1.16e-05	0.0
523	53	8.34e-04	5.91e-03	-0.05	-1.18e-04	-6.74e-06	0.0
523	57	8.85e-04	5.90e-03	-0.05	-1.19e-04	-6.32e-06	0.0
523	70	-1.29e-04	2.67e-03	-0.05	-1.29e-04	-8.69e-06	0.0
523	72	-1.14e-04	2.30e-03	-0.04	-1.11e-04	-7.63e-06	0.0
524	2	-2.18e-04	4.66e-03	-0.07	-2.26e-04	-1.42e-05	0.0
524	20	-2.62e-03	2.29e-03	-0.05	-1.36e-04	-1.30e-05	0.0
524	21	4.34e-04	5.30e-03	-0.05	-1.51e-04	-8.39e-06	0.0
524	25	4.77e-04	5.29e-03	-0.05	-1.51e-04	-7.97e-06	0.0
524	52	-4.08e-03	1.94e-03	-0.05	-1.34e-04	-1.54e-05	0.0
524	53	7.73e-04	6.73e-03	-0.05	-1.58e-04	-8.05e-06	0.0
524	57	8.41e-04	6.72e-03	-0.05	-1.58e-04	-7.38e-06	0.0
524	70	-1.63e-04	3.48e-03	-0.05	-1.69e-04	-1.06e-05	0.0
524	72	-1.44e-04	2.99e-03	-0.05	-1.45e-04	-9.30e-06	0.0
525	2	-2.95e-04	5.60e-03	-0.08	-2.74e-04	-1.83e-05	0.0
525	20	-2.81e-03	2.83e-03	-0.06	-1.64e-04	-1.95e-05	0.0
525	21	3.83e-04	5.97e-03	-0.06	-1.87e-04	-1.04e-05	0.0
525	25	4.45e-04	5.97e-03	-0.06	-1.87e-04	-9.57e-06	0.0
525	52	-4.36e-03	2.48e-03	-0.06	-1.61e-04	-2.41e-05	0.0
525	53	7.20e-04	7.47e-03	-0.06	-1.98e-04	-9.70e-06	0.0
525	57	8.18e-04	7.46e-03	-0.06	-1.98e-04	-8.37e-06	0.0
525	70	-2.22e-04	4.18e-03	-0.06	-2.05e-04	-1.37e-05	0.0
525	72	-1.95e-04	3.59e-03	-0.06	-1.76e-04	-1.20e-05	0.0
526	1	3.35e-04	3.56e-03	-0.07	-1.76e-04	1.14e-05	0.0
526	2	2.70e-04	4.26e-03	-0.08	-2.10e-04	6.80e-06	0.0
526	13	3.00e-03	3.10e-03	-0.06	-1.45e-04	2.59e-05	0.0
526	17	3.12e-03	2.75e-03	-0.06	-1.43e-04	2.60e-05	0.0
526	21	9.05e-04	5.66e-03	-0.06	-1.49e-04	1.35e-05	0.0
526	45	4.63e-03	3.32e-03	-0.06	-1.50e-04	3.60e-05	0.0
526	49	4.82e-03	2.76e-03	-0.06	-1.48e-04	3.62e-05	0.0
526	53	1.29e-03	7.39e-03	-0.06	-1.58e-04	1.62e-05	0.0
526	69	2.55e-04	2.73e-03	-0.06	-1.35e-04	8.66e-06	0.0
526	70	2.11e-04	3.20e-03	-0.06	-1.58e-04	5.57e-06	0.0
526	71	2.55e-04	2.73e-03	-0.06	-1.35e-04	8.66e-06	0.0
526	72	2.46e-04	2.82e-03	-0.06	-1.39e-04	8.04e-06	0.0
527	1	4.18e-04	3.75e-03	-0.08	-1.85e-04	1.60e-05	0.0
527	2	3.50e-04	4.49e-03	-0.09	-2.21e-04	1.13e-05	0.0
527	17	3.27e-03	2.90e-03	-0.07	-1.51e-04	3.20e-05	0.0
527	21	9.74e-04	5.85e-03	-0.07	-1.58e-04	1.85e-05	0.0
527	25	1.08e-03	5.53e-03	-0.07	-1.59e-04	2.00e-05	0.0

527	49	5.02e-03	2.92e-03	-0.07	-1.56e-04	4.36e-05	0.0
527	53	1.36e-03	7.60e-03	-0.07	-1.68e-04	2.20e-05	0.0
527	57	1.54e-03	7.09e-03	-0.07	-1.69e-04	2.44e-05	0.0
527	69	3.20e-04	2.87e-03	-0.06	-1.42e-04	1.22e-05	0.0
527	70	2.74e-04	3.37e-03	-0.07	-1.66e-04	9.03e-06	0.0
527	71	3.20e-04	2.87e-03	-0.06	-1.42e-04	1.22e-05	0.0
527	72	3.10e-04	2.97e-03	-0.06	-1.47e-04	1.16e-05	0.0
528	1	6.67e-04	-4.03e-03	-0.08	1.96e-04	2.93e-05	0.0
528	2	6.44e-04	-4.82e-03	-0.09	2.35e-04	2.70e-05	0.0
528	6	3.46e-03	-4.41e-03	-0.07	1.65e-04	4.88e-05	0.0
528	10	3.60e-03	-4.06e-03	-0.07	1.63e-04	4.90e-05	0.0
528	26	1.20e-03	-6.15e-03	-0.07	1.70e-04	3.01e-05	0.0
528	38	5.21e-03	-5.19e-03	-0.07	1.73e-04	6.44e-05	0.0
528	42	5.42e-03	-4.62e-03	-0.07	1.70e-04	6.46e-05	0.0
528	58	1.61e-03	-7.95e-03	-0.07	1.82e-04	3.46e-05	0.0
528	69	5.11e-04	-3.10e-03	-0.06	1.51e-04	2.24e-05	0.0
528	70	4.95e-04	-3.62e-03	-0.07	1.76e-04	2.09e-05	0.0
528	71	5.11e-04	-3.10e-03	-0.06	1.51e-04	2.24e-05	0.0
528	72	5.08e-04	-3.20e-03	-0.06	1.56e-04	2.21e-05	0.0
529	1	5.44e-04	-3.93e-03	-0.08	1.92e-04	2.31e-05	0.0
529	2	5.03e-04	-4.69e-03	-0.08	2.28e-04	2.00e-05	0.0
529	6	3.35e-03	-3.36e-03	-0.06	1.59e-04	4.33e-05	0.0
529	10	3.48e-03	-3.01e-03	-0.06	1.57e-04	4.34e-05	0.0
529	26	1.09e-03	-6.03e-03	-0.06	1.65e-04	2.40e-05	0.0
529	38	5.08e-03	-3.56e-03	-0.06	1.66e-04	5.84e-05	0.0
529	42	5.29e-03	-3.00e-03	-0.06	1.63e-04	5.87e-05	0.0
529	58	1.49e-03	-7.80e-03	-0.06	1.75e-04	2.77e-05	0.0
529	69	4.16e-04	-3.01e-03	-0.06	1.47e-04	1.76e-05	0.0
529	70	3.88e-04	-3.52e-03	-0.06	1.72e-04	1.55e-05	0.0
529	71	4.16e-04	-3.01e-03	-0.06	1.47e-04	1.76e-05	0.0
529	72	4.10e-04	-3.12e-03	-0.06	1.52e-04	1.72e-05	0.0
530	1	4.02e-04	-3.48e-03	-0.07	1.71e-04	1.50e-05	0.0
530	2	3.56e-04	-4.15e-03	-0.07	2.03e-04	1.13e-05	0.0
530	6	3.13e-03	-3.03e-03	-0.06	1.43e-04	3.29e-05	0.0
530	10	3.24e-03	-2.69e-03	-0.05	1.42e-04	3.31e-05	0.0
530	26	9.86e-04	-5.59e-03	-0.05	1.45e-04	1.66e-05	0.0
530	38	4.80e-03	-3.24e-03	-0.06	1.50e-04	4.57e-05	0.0
530	42	4.97e-03	-2.69e-03	-0.06	1.48e-04	4.59e-05	0.0
530	58	1.39e-03	-7.31e-03	-0.05	1.52e-04	1.97e-05	0.0
530	69	3.06e-04	-2.67e-03	-0.05	1.31e-04	1.13e-05	0.0
530	70	2.75e-04	-3.12e-03	-0.05	1.53e-04	8.91e-06	0.0
530	71	3.06e-04	-2.67e-03	-0.05	1.31e-04	1.13e-05	0.0
530	72	3.00e-04	-2.76e-03	-0.05	1.36e-04	1.09e-05	0.0
531	1	2.64e-04	-2.89e-03	-0.06	1.42e-04	8.12e-06	0.0
531	2	2.08e-04	-3.44e-03	-0.06	1.69e-04	4.07e-06	0.0
531	6	2.92e-03	-2.56e-03	-0.05	1.20e-04	2.38e-05	0.0
531	10	3.01e-03	-2.23e-03	-0.05	1.19e-04	2.37e-05	0.0
531	26	8.80e-04	-5.06e-03	-0.05	1.19e-04	9.59e-06	0.0
531	38	4.52e-03	-2.76e-03	-0.05	1.26e-04	3.42e-05	0.0
531	42	4.66e-03	-2.23e-03	-0.05	1.25e-04	3.42e-05	0.0
531	58	1.28e-03	-6.74e-03	-0.05	1.24e-04	1.17e-05	0.0
531	69	1.99e-04	-2.22e-03	-0.05	1.09e-04	6.07e-06	0.0
531	70	1.62e-04	-2.58e-03	-0.05	1.27e-04	3.36e-06	0.0
531	71	1.99e-04	-2.22e-03	-0.05	1.09e-04	6.07e-06	0.0
531	72	1.92e-04	-2.29e-03	-0.05	1.13e-04	5.52e-06	0.0
532	1	1.66e-04	-2.18e-03	-0.05	1.07e-04	3.43e-06	0.0
532	2	1.05e-04	-2.59e-03	-0.05	1.27e-04	0.0	0.0
532	6	2.76e-03	-1.99e-03	-0.04	9.14e-05	1.71e-05	0.0
532	10	2.82e-03	-1.67e-03	-0.04	9.08e-05	1.71e-05	0.0
532	26	8.15e-04	-4.46e-03	-0.04	8.86e-05	5.56e-06	0.0
532	38	4.31e-03	-2.18e-03	-0.04	9.67e-05	2.58e-05	0.0
532	42	4.41e-03	-1.66e-03	-0.04	9.57e-05	2.58e-05	0.0
532	58	1.22e-03	-6.09e-03	-0.04	9.24e-05	7.40e-06	0.0
532	69	1.24e-04	-1.67e-03	-0.04	8.23e-05	2.44e-06	0.0
532	70	8.33e-05	-1.95e-03	-0.04	9.56e-05	0.0	0.0
532	71	1.24e-04	-1.67e-03	-0.04	8.23e-05	2.44e-06	0.0
532	72	1.16e-04	-1.73e-03	-0.04	8.50e-05	1.88e-06	0.0
533	1	1.04e-04	-1.40e-03	-0.05	6.88e-05	0.0	0.0
533	2	4.16e-05	-1.66e-03	-0.05	8.14e-05	-3.79e-06	0.0
533	6	2.64e-03	-1.36e-03	-0.04	5.95e-05	1.26e-05	0.0
533	10	2.68e-03	-1.04e-03	-0.04	5.91e-05	1.27e-05	0.0
533	26	7.84e-04	-3.81e-03	-0.04	5.66e-05	3.10e-06	0.0
533	38	4.16e-03	-1.54e-03	-0.04	6.35e-05	2.00e-05	0.0
533	42	4.22e-03	-1.02e-03	-0.04	6.29e-05	2.00e-05	0.0
533	58	1.20e-03	-5.42e-03	-0.04	5.89e-05	4.83e-06	0.0
533	69	7.60e-05	-1.07e-03	-0.04	5.28e-05	0.0	0.0

533	70	3.44e-05	-1.25e-03	-0.04	6.12e-05	-2.68e-06	0.0
533	71	7.60e-05	-1.07e-03	-0.04	5.28e-05	0.0	0.0
533	72	6.77e-05	-1.11e-03	-0.04	5.45e-05	0.0	0.0
534	1	7.30e-05	-5.85e-04	-0.05	2.85e-05	-1.02e-06	0.0
534	2	9.95e-06	-6.94e-04	-0.05	3.38e-05	-5.30e-06	0.0
534	6	2.57e-03	-7.08e-04	-0.04	2.63e-05	1.00e-05	0.0
534	10	2.59e-03	-3.87e-04	-0.04	2.61e-05	1.00e-05	0.0
534	26	7.83e-04	-3.15e-03	-0.04	2.44e-05	1.96e-06	0.0
534	38	4.06e-03	-8.60e-04	-0.04	2.89e-05	1.65e-05	0.0
534	42	4.08e-03	-3.46e-04	-0.04	2.86e-05	1.66e-05	0.0
534	58	1.21e-03	-4.74e-03	-0.04	2.59e-05	3.71e-06	0.0
534	69	5.20e-05	-4.49e-04	-0.04	2.19e-05	0.0	0.0
534	70	1.00e-05	-5.21e-04	-0.04	2.54e-05	-3.85e-06	0.0
534	71	5.20e-05	-4.49e-04	-0.04	2.19e-05	0.0	0.0
534	72	4.36e-05	-4.64e-04	-0.04	2.26e-05	-1.57e-06	0.0
535	1	6.92e-05	2.42e-04	-0.05	-1.23e-05	-1.25e-06	0.0
535	2	6.45e-06	2.86e-04	-0.05	-1.45e-05	-5.53e-06	0.0
535	17	2.57e-03	1.20e-04	-0.04	-1.28e-05	9.55e-06	0.0
535	21	7.90e-04	2.88e-03	-0.04	-1.06e-05	1.80e-06	0.0
535	49	4.05e-03	7.57e-05	-0.04	-1.48e-05	1.59e-05	0.0
535	53	1.23e-03	4.47e-03	-0.04	-1.14e-05	3.58e-06	0.0
535	69	4.91e-05	1.85e-04	-0.04	-9.43e-06	-1.17e-06	0.0
535	70	7.28e-06	2.15e-04	-0.04	-1.09e-05	-4.02e-06	0.0
535	71	4.91e-05	1.85e-04	-0.04	-9.43e-06	-1.17e-06	0.0
535	72	4.08e-05	1.91e-04	-0.04	-9.73e-06	-1.74e-06	0.0
536	1	9.23e-05	1.06e-03	-0.05	-5.28e-05	0.0	0.0
536	2	3.05e-05	1.26e-03	-0.05	-6.26e-05	-4.50e-06	0.0
536	13	2.62e-03	1.10e-03	-0.04	-4.63e-05	1.15e-05	0.0
536	17	2.65e-03	7.79e-04	-0.04	-4.60e-05	1.15e-05	0.0
536	21	7.83e-04	3.54e-03	-0.04	-4.37e-05	2.49e-06	0.0
536	45	4.12e-03	1.27e-03	-0.04	-4.97e-05	1.85e-05	0.0
536	49	4.17e-03	7.53e-04	-0.04	-4.92e-05	1.85e-05	0.0
536	53	1.21e-03	5.14e-03	-0.04	-4.55e-05	4.20e-06	0.0
536	69	6.70e-05	8.16e-04	-0.04	-4.06e-05	0.0	0.0
536	70	2.57e-05	9.47e-04	-0.04	-4.70e-05	-3.23e-06	0.0
536	71	6.70e-05	8.16e-04	-0.04	-4.06e-05	0.0	0.0
536	72	5.87e-05	8.42e-04	-0.04	-4.18e-05	0.0	0.0
537	1	1.44e-04	1.86e-03	-0.05	-9.22e-05	2.14e-06	0.0
537	2	8.46e-05	2.21e-03	-0.05	-1.09e-04	-2.10e-06	0.0
537	13	2.72e-03	1.74e-03	-0.04	-7.87e-05	1.52e-05	0.0
537	17	2.77e-03	1.42e-03	-0.04	-7.83e-05	1.53e-05	0.0
537	21	8.04e-04	4.19e-03	-0.04	-7.59e-05	4.42e-06	0.0
537	45	4.26e-03	1.93e-03	-0.04	-8.35e-05	2.34e-05	0.0
537	49	4.35e-03	1.41e-03	-0.04	-8.27e-05	2.35e-05	0.0
537	53	1.22e-03	5.82e-03	-0.04	-7.89e-05	6.19e-06	0.0
537	69	1.07e-04	1.43e-03	-0.04	-7.07e-05	1.44e-06	0.0
537	70	6.73e-05	1.66e-03	-0.04	-8.21e-05	-1.38e-06	0.0
537	71	1.07e-04	1.43e-03	-0.04	-7.07e-05	1.44e-06	0.0
537	72	9.92e-05	1.47e-03	-0.04	-7.30e-05	0.0	0.0
538	1	2.30e-04	2.60e-03	-0.06	-1.29e-04	6.10e-06	0.0
538	2	1.75e-04	3.09e-03	-0.06	-1.53e-04	1.97e-06	0.0
538	13	2.86e-03	2.34e-03	-0.05	-1.09e-04	2.10e-05	0.0
538	17	2.94e-03	2.01e-03	-0.05	-1.08e-04	2.11e-05	0.0
538	21	8.57e-04	4.82e-03	-0.04	-1.07e-04	7.79e-06	0.0
538	45	4.45e-03	2.54e-03	-0.05	-1.15e-04	3.08e-05	0.0
538	49	4.57e-03	2.01e-03	-0.05	-1.13e-04	3.08e-05	0.0
538	53	1.26e-03	6.48e-03	-0.05	-1.12e-04	9.75e-06	0.0
538	69	1.73e-04	2.00e-03	-0.04	-9.88e-05	4.50e-06	0.0
538	70	1.36e-04	2.32e-03	-0.04	-1.15e-04	1.75e-06	0.0
538	71	1.73e-04	2.00e-03	-0.04	-9.88e-05	4.50e-06	0.0
538	72	1.66e-04	2.06e-03	-0.04	-1.02e-04	3.95e-06	0.0
539	2	-1.45e-03	-6.10e-03	-0.10	2.92e-04	-7.87e-05	0.0
539	11	-3.46e-03	-3.05e-03	-0.06	1.70e-04	-5.42e-05	0.0
539	22	-3.72e-04	-6.51e-03	-0.07	2.06e-04	-5.05e-05	0.0
539	26	-4.29e-04	-6.51e-03	-0.07	2.06e-04	-5.11e-05	0.0
539	43	-4.98e-03	-2.66e-03	-0.06	1.66e-04	-5.72e-05	0.0
539	54	-5.90e-05	-8.16e-03	-0.07	2.22e-04	-5.14e-05	0.0
539	58	-1.50e-04	-8.17e-03	-0.07	2.23e-04	-5.24e-05	0.0
539	70	-1.08e-03	-4.55e-03	-0.07	2.18e-04	-5.90e-05	0.0
539	72	-9.38e-04	-3.88e-03	-0.07	1.86e-04	-5.10e-05	0.0
540	2	-8.00e-04	-6.12e-03	-0.09	2.90e-04	-5.26e-05	0.0
540	11	-3.09e-03	-3.10e-03	-0.06	1.69e-04	-3.95e-05	0.0
540	22	1.30e-04	-6.45e-03	-0.06	2.03e-04	-3.07e-05	0.0
540	26	7.46e-05	-6.47e-03	-0.06	2.03e-04	-3.14e-05	0.0
540	43	-4.61e-03	-2.73e-03	-0.06	1.64e-04	-4.32e-05	0.0
540	54	5.10e-04	-8.06e-03	-0.06	2.18e-04	-2.93e-05	0.0

540	58	4.22e-04	-8.08e-03	-0.06	2.18e-04	-3.03e-05	0.0
540	70	-6.01e-04	-4.57e-03	-0.07	2.17e-04	-3.95e-05	0.0
540	72	-5.32e-04	-3.90e-03	-0.06	1.86e-04	-3.45e-05	0.0
541	2	-7.44e-04	-4.88e-03	-0.07	2.37e-04	-4.19e-05	0.0
541	11	-2.96e-03	-2.42e-03	-0.05	1.41e-04	-3.01e-05	0.0
541	22	1.47e-04	-5.49e-03	-0.05	1.61e-04	-2.55e-05	0.0
541	26	1.05e-04	-5.50e-03	-0.05	1.61e-04	-2.59e-05	0.0
541	43	-4.43e-03	-2.08e-03	-0.05	1.38e-04	-3.23e-05	0.0
541	54	5.12e-04	-6.95e-03	-0.05	1.70e-04	-2.50e-05	0.0
541	58	4.44e-04	-6.97e-03	-0.05	1.69e-04	-2.56e-05	0.0
541	70	-5.58e-04	-3.64e-03	-0.06	1.77e-04	-3.14e-05	0.0
541	72	-4.88e-04	-3.13e-03	-0.05	1.52e-04	-2.73e-05	0.0
542	2	-5.18e-04	-3.86e-03	-0.06	1.89e-04	-2.91e-05	0.0
542	11	-2.75e-03	-1.82e-03	-0.05	1.13e-04	-2.11e-05	0.0
542	22	3.01e-04	-4.76e-03	-0.05	1.26e-04	-1.72e-05	0.0
542	26	2.69e-04	-4.77e-03	-0.05	1.26e-04	-1.74e-05	0.0
542	43	-4.18e-03	-1.50e-03	-0.05	1.11e-04	-2.28e-05	0.0
542	54	6.72e-04	-6.16e-03	-0.05	1.32e-04	-1.64e-05	0.0
542	58	6.21e-04	-6.18e-03	-0.05	1.31e-04	-1.68e-05	0.0
542	70	-3.89e-04	-2.89e-03	-0.05	1.41e-04	-2.18e-05	0.0
542	72	-3.40e-04	-2.48e-03	-0.05	1.22e-04	-1.91e-05	0.0
543	2	-3.61e-04	-2.82e-03	-0.06	1.38e-04	-2.09e-05	0.0
543	11	-2.60e-03	-1.19e-03	-0.04	8.31e-05	-1.50e-05	0.0
543	22	4.10e-04	-4.05e-03	-0.04	9.10e-05	-1.24e-05	0.0
543	26	3.87e-04	-4.05e-03	-0.04	9.09e-05	-1.26e-05	0.0
543	43	-4.00e-03	-8.73e-04	-0.04	8.17e-05	-1.61e-05	0.0
543	54	7.86e-04	-5.41e-03	-0.04	9.43e-05	-1.20e-05	0.0
543	58	7.51e-04	-5.42e-03	-0.04	9.40e-05	-1.22e-05	0.0
543	70	-2.71e-04	-2.11e-03	-0.04	1.03e-04	-1.57e-05	0.0
543	72	-2.37e-04	-1.81e-03	-0.04	8.91e-05	-1.37e-05	0.0
544	2	-2.64e-04	-1.76e-03	-0.05	8.70e-05	-1.60e-05	0.0
544	6	2.12e-03	-1.81e-03	-0.04	5.54e-05	-8.94e-06	0.0
544	11	-2.50e-03	-5.51e-04	-0.04	5.23e-05	-1.13e-05	0.0
544	26	4.71e-04	-3.35e-03	-0.04	5.67e-05	-9.71e-06	0.0
544	38	3.47e-03	-2.23e-03	-0.04	5.64e-05	-8.23e-06	0.0
544	43	-3.87e-03	-2.34e-04	-0.04	5.14e-05	-1.20e-05	0.0
544	58	8.48e-04	-4.69e-03	-0.04	5.84e-05	-9.46e-06	0.0
544	70	-1.98e-04	-1.32e-03	-0.04	6.50e-05	-1.20e-05	0.0
544	72	-1.74e-04	-1.14e-03	-0.04	5.61e-05	-1.05e-05	0.0
545	2	-2.14e-04	-7.17e-04	-0.05	3.58e-05	-1.34e-05	0.0
545	10	2.15e-03	-8.88e-04	-0.04	2.31e-05	-7.71e-06	0.0
545	11	-2.43e-03	1.74e-06	-0.04	2.12e-05	-9.42e-06	0.0
545	26	5.27e-04	-2.68e-03	-0.04	2.38e-05	-8.28e-06	0.0
545	42	3.51e-03	-1.15e-03	-0.04	2.36e-05	-7.20e-06	0.0
545	43	-3.78e-03	2.64e-04	-0.04	2.07e-05	-9.92e-06	0.0
545	58	9.18e-04	-4.00e-03	-0.04	2.47e-05	-8.12e-06	0.0
545	70	-1.61e-04	-5.36e-04	-0.04	2.68e-05	-1.01e-05	0.0
545	72	-1.42e-04	-4.62e-04	-0.04	2.31e-05	-8.87e-06	0.0
546	2	-2.06e-04	3.26e-04	-0.05	-1.52e-05	-1.30e-05	0.0
546	17	2.15e-03	6.43e-04	-0.04	-1.02e-05	-7.48e-06	0.0
546	20	-2.41e-03	-2.40e-04	-0.03	-8.63e-06	-9.08e-06	0.0
546	21	5.41e-04	2.43e-03	-0.04	-1.08e-05	-8.00e-06	0.0
546	49	3.50e-03	9.03e-04	-0.04	-1.07e-05	-7.00e-06	0.0
546	52	-3.76e-03	-5.01e-04	-0.03	-8.18e-06	-9.55e-06	0.0
546	53	9.37e-04	3.75e-03	-0.04	-1.17e-05	-7.84e-06	0.0
546	70	-1.54e-04	2.43e-04	-0.04	-1.14e-05	-9.75e-06	0.0
546	72	-1.36e-04	2.10e-04	-0.04	-9.81e-06	-8.57e-06	0.0
547	2	-2.36e-04	1.37e-03	-0.05	-6.63e-05	-1.45e-05	0.0
547	17	2.17e-03	1.30e-03	-0.04	-4.23e-05	-8.17e-06	0.0
547	20	-2.47e-03	3.98e-04	-0.04	-3.98e-05	-1.03e-05	0.0
547	21	4.97e-04	3.10e-03	-0.04	-4.33e-05	-8.82e-06	0.0
547	49	3.54e-03	1.56e-03	-0.04	-4.30e-05	-7.55e-06	0.0
547	52	-3.84e-03	1.34e-04	-0.04	-3.90e-05	-1.09e-05	0.0
547	53	8.79e-04	4.42e-03	-0.04	-4.46e-05	-8.58e-06	0.0
547	70	-1.77e-04	1.02e-03	-0.04	-4.96e-05	-1.09e-05	0.0
547	72	-1.56e-04	8.82e-04	-0.04	-4.27e-05	-9.57e-06	0.0
548	2	-3.09e-04	2.42e-03	-0.05	-1.18e-04	-1.82e-05	0.0
548	20	-2.56e-03	9.53e-04	-0.04	-7.07e-05	-1.31e-05	0.0
548	21	4.28e-04	3.79e-03	-0.04	-7.70e-05	-1.10e-05	0.0
548	25	4.49e-04	3.78e-03	-0.04	-7.71e-05	-1.08e-05	0.0
548	52	-3.95e-03	6.33e-04	-0.04	-6.95e-05	-1.41e-05	0.0
548	53	7.96e-04	5.14e-03	-0.04	-7.94e-05	-1.06e-05	0.0
548	57	8.30e-04	5.13e-03	-0.04	-7.96e-05	-1.04e-05	0.0
548	70	-2.32e-04	1.81e-03	-0.04	-8.79e-05	-1.37e-05	0.0
548	72	-2.04e-04	1.56e-03	-0.04	-7.58e-05	-1.20e-05	0.0
549	2	-4.32e-04	3.48e-03	-0.06	-1.69e-04	-2.47e-05	0.0

549	20	-2.68e-03	1.59e-03	-0.04	-1.01e-04	-1.80e-05	0.0
549	21	3.30e-04	4.50e-03	-0.04	-1.12e-04	-1.47e-05	0.0
549	25	3.62e-04	4.49e-03	-0.04	-1.12e-04	-1.45e-05	0.0
549	52	-4.10e-03	1.27e-03	-0.04	-9.93e-05	-1.95e-05	0.0
549	53	6.87e-04	5.89e-03	-0.04	-1.16e-04	-1.42e-05	0.0
549	57	7.37e-04	5.87e-03	-0.04	-1.16e-04	-1.38e-05	0.0
549	70	-3.24e-04	2.60e-03	-0.05	-1.26e-04	-1.85e-05	0.0
549	72	-2.84e-04	2.23e-03	-0.04	-1.09e-04	-1.62e-05	0.0
550	2	-6.00e-04	4.52e-03	-0.07	-2.19e-04	-3.46e-05	0.0
550	20	-2.85e-03	2.21e-03	-0.05	-1.30e-04	-2.50e-05	0.0
550	21	2.05e-04	5.23e-03	-0.05	-1.47e-04	-2.07e-05	0.0
550	25	2.46e-04	5.22e-03	-0.05	-1.47e-04	-2.03e-05	0.0
550	52	-4.30e-03	1.88e-03	-0.05	-1.27e-04	-2.69e-05	0.0
550	53	5.50e-04	6.67e-03	-0.05	-1.54e-04	-2.00e-05	0.0
550	57	6.16e-04	6.65e-03	-0.05	-1.54e-04	-1.95e-05	0.0
550	70	-4.50e-04	3.37e-03	-0.05	-1.64e-04	-2.59e-05	0.0
550	72	-3.94e-04	2.90e-03	-0.05	-1.41e-04	-2.26e-05	0.0
551	2	-5.20e-04	5.74e-03	-0.08	-2.73e-04	-3.94e-05	0.0
551	20	-2.90e-03	2.91e-03	-0.06	-1.61e-04	-3.12e-05	0.0
551	21	2.72e-04	6.14e-03	-0.06	-1.88e-04	-2.27e-05	0.0
551	25	3.26e-04	6.13e-03	-0.06	-1.89e-04	-2.21e-05	0.0
551	52	-4.41e-03	2.55e-03	-0.06	-1.56e-04	-3.47e-05	0.0
551	53	6.34e-04	7.69e-03	-0.06	-2.01e-04	-2.12e-05	0.0
551	57	7.20e-04	7.67e-03	-0.06	-2.01e-04	-2.03e-05	0.0
551	70	-3.92e-04	4.28e-03	-0.06	-2.04e-04	-2.96e-05	0.0
551	72	-3.52e-04	3.67e-03	-0.06	-1.75e-04	-2.60e-05	0.0
552	2	-1.46e-03	6.12e-03	-0.10	-2.91e-04	-7.86e-05	0.0
552	20	-3.46e-03	3.18e-03	-0.06	-1.71e-04	-5.37e-05	0.0
552	25	-3.92e-04	6.47e-03	-0.07	-2.06e-04	-5.08e-05	0.0
552	27	-1.86e-03	6.52e-03	-0.07	-2.05e-04	-5.43e-05	0.0
552	52	-4.96e-03	2.86e-03	-0.06	-1.67e-04	-5.66e-05	0.0
552	57	-8.79e-05	8.10e-03	-0.07	-2.22e-04	-5.19e-05	0.0
552	59	-2.42e-03	8.17e-03	-0.07	-2.21e-04	-5.74e-05	0.0
552	70	-1.09e-03	4.56e-03	-0.07	-2.18e-04	-5.89e-05	0.0
552	72	-9.44e-04	3.89e-03	-0.07	-1.86e-04	-5.09e-05	0.0
553	2	-2.02e-03	-5.07e-03	-0.09	2.47e-04	-1.08e-04	0.0
553	11	-3.73e-03	-2.49e-03	-0.06	1.44e-04	-6.71e-05	0.0
553	22	-7.73e-04	-5.75e-03	-0.07	1.73e-04	-7.19e-05	0.0
553	26	-8.22e-04	-5.76e-03	-0.07	1.73e-04	-7.20e-05	0.0
553	43	-5.19e-03	-2.13e-03	-0.06	1.40e-04	-6.70e-05	0.0
553	54	-4.89e-04	-7.31e-03	-0.07	1.86e-04	-7.46e-05	0.0
553	58	-5.68e-04	-7.33e-03	-0.07	1.85e-04	-7.49e-05	0.0
553	70	-1.51e-03	-3.79e-03	-0.07	1.85e-04	-8.11e-05	0.0
553	72	-1.30e-03	-3.24e-03	-0.06	1.58e-04	-7.00e-05	0.0
554	2	-1.68e-03	-4.95e-03	-0.08	2.42e-04	-9.06e-05	0.0
554	11	-3.50e-03	-2.44e-03	-0.06	1.41e-04	-5.64e-05	0.0
554	22	-5.17e-04	-5.64e-03	-0.06	1.68e-04	-5.90e-05	0.0
554	26	-5.61e-04	-5.65e-03	-0.06	1.68e-04	-5.91e-05	0.0
554	43	-4.95e-03	-2.09e-03	-0.06	1.37e-04	-5.64e-05	0.0
554	54	-2.03e-04	-7.17e-03	-0.06	1.79e-04	-6.05e-05	0.0
554	58	-2.73e-04	-7.20e-03	-0.06	1.79e-04	-6.07e-05	0.0
554	70	-1.26e-03	-3.70e-03	-0.06	1.81e-04	-6.79e-05	0.0
554	72	-1.09e-03	-3.17e-03	-0.06	1.55e-04	-5.87e-05	0.0
555	2	-1.18e-03	-4.38e-03	-0.07	2.15e-04	-6.32e-05	0.0
555	11	-3.17e-03	-2.12e-03	-0.05	1.26e-04	-4.05e-05	0.0
555	22	-1.40e-04	-5.20e-03	-0.05	1.47e-04	-3.96e-05	0.0
555	26	-1.78e-04	-5.22e-03	-0.05	1.47e-04	-3.97e-05	0.0
555	43	-4.60e-03	-1.78e-03	-0.05	1.23e-04	-4.10e-05	0.0
555	54	2.14e-04	-6.68e-03	-0.05	1.56e-04	-3.95e-05	0.0
555	58	1.54e-04	-6.70e-03	-0.05	1.55e-04	-3.97e-05	0.0
555	70	-8.85e-04	-3.27e-03	-0.05	1.61e-04	-4.74e-05	0.0
555	72	-7.69e-04	-2.81e-03	-0.05	1.38e-04	-4.11e-05	0.0
556	2	-8.00e-04	-3.57e-03	-0.06	1.75e-04	-4.32e-05	0.0
556	11	-2.90e-03	-1.64e-03	-0.04	1.04e-04	-2.83e-05	0.0
556	22	1.21e-04	-4.60e-03	-0.05	1.18e-04	-2.64e-05	0.0
556	26	9.16e-05	-4.61e-03	-0.05	1.17e-04	-2.65e-05	0.0
556	43	-4.31e-03	-1.32e-03	-0.04	1.01e-04	-2.90e-05	0.0
556	54	4.89e-04	-6.01e-03	-0.05	1.23e-04	-2.59e-05	0.0
556	58	4.43e-04	-6.04e-03	-0.05	1.23e-04	-2.61e-05	0.0
556	70	-6.00e-04	-2.66e-03	-0.05	1.31e-04	-3.24e-05	0.0
556	72	-5.23e-04	-2.29e-03	-0.05	1.13e-04	-2.82e-05	0.0
557	2	-5.47e-04	-2.63e-03	-0.05	1.30e-04	-3.02e-05	0.0
557	11	-2.70e-03	-1.08e-03	-0.04	7.73e-05	-1.99e-05	0.0
557	22	2.94e-04	-3.95e-03	-0.04	8.59e-05	-1.84e-05	0.0
557	26	2.73e-04	-3.96e-03	-0.04	8.57e-05	-1.85e-05	0.0
557	43	-4.09e-03	-7.62e-04	-0.04	7.56e-05	-2.04e-05	0.0

557	54	6.71e-04	-5.33e-03	-0.04	8.93e-05	-1.80e-05	0.0
557	58	6.37e-04	-5.34e-03	-0.04	8.90e-05	-1.81e-05	0.0
557	70	-4.11e-04	-1.97e-03	-0.04	9.70e-05	-2.26e-05	0.0
557	72	-3.59e-04	-1.69e-03	-0.04	8.36e-05	-1.98e-05	0.0
558	2	-3.92e-04	-1.66e-03	-0.05	8.22e-05	-2.23e-05	0.0
558	6	2.03e-03	-1.76e-03	-0.04	5.27e-05	-1.35e-05	0.0
558	11	-2.57e-03	-4.87e-04	-0.04	4.90e-05	-1.47e-05	0.0
558	26	3.92e-04	-3.32e-03	-0.04	5.39e-05	-1.37e-05	0.0
558	38	3.37e-03	-2.19e-03	-0.04	5.39e-05	-1.32e-05	0.0
558	43	-3.93e-03	-1.69e-04	-0.04	4.79e-05	-1.50e-05	0.0
558	58	7.70e-04	-4.67e-03	-0.04	5.57e-05	-1.35e-05	0.0
558	70	-2.94e-04	-1.24e-03	-0.04	6.14e-05	-1.67e-05	0.0
558	72	-2.57e-04	-1.07e-03	-0.04	5.29e-05	-1.46e-05	0.0
559	2	-3.12e-04	-6.76e-04	-0.05	3.39e-05	-1.83e-05	0.0
559	6	2.07e-03	-1.03e-03	-0.04	2.21e-05	-1.12e-05	0.0
559	11	-2.48e-03	7.08e-06	-0.03	1.99e-05	-1.20e-05	0.0
559	26	4.65e-04	-2.68e-03	-0.04	2.27e-05	-1.14e-05	0.0
559	38	3.41e-03	-1.40e-03	-0.04	2.27e-05	-1.10e-05	0.0
559	43	-3.83e-03	2.58e-04	-0.03	1.92e-05	-1.23e-05	0.0
559	58	8.56e-04	-4.02e-03	-0.04	2.37e-05	-1.13e-05	0.0
559	70	-2.34e-04	-5.05e-04	-0.04	2.53e-05	-1.37e-05	0.0
559	72	-2.06e-04	-4.35e-04	-0.04	2.18e-05	-1.20e-05	0.0
560	2	-2.98e-04	3.09e-04	-0.05	-1.45e-05	-1.76e-05	0.0
560	17	2.09e-03	6.12e-04	-0.03	-9.88e-06	-1.08e-05	0.0
560	20	-2.47e-03	-2.30e-04	-0.03	-8.07e-06	-1.16e-05	0.0
560	21	4.81e-04	2.45e-03	-0.03	-1.05e-05	-1.10e-05	0.0
560	49	3.43e-03	8.60e-04	-0.03	-1.04e-05	-1.06e-05	0.0
560	52	-3.81e-03	-4.78e-04	-0.03	-7.53e-06	-1.18e-05	0.0
560	53	8.78e-04	3.78e-03	-0.03	-1.14e-05	-1.09e-05	0.0
560	70	-2.24e-04	2.31e-04	-0.03	-1.08e-05	-1.32e-05	0.0
560	72	-1.97e-04	1.99e-04	-0.03	-9.35e-06	-1.16e-05	0.0
561	2	-3.47e-04	1.29e-03	-0.05	-6.29e-05	-2.01e-05	0.0
561	17	2.09e-03	1.23e-03	-0.04	-4.04e-05	-1.22e-05	0.0
561	20	-2.53e-03	3.70e-04	-0.04	-3.74e-05	-1.32e-05	0.0
561	21	4.28e-04	3.08e-03	-0.04	-4.13e-05	-1.23e-05	0.0
561	49	3.45e-03	1.48e-03	-0.04	-4.13e-05	-1.19e-05	0.0
561	52	-3.89e-03	1.16e-04	-0.04	-3.65e-05	-1.35e-05	0.0
561	53	8.11e-04	4.42e-03	-0.04	-4.27e-05	-1.21e-05	0.0
561	70	-2.61e-04	9.67e-04	-0.04	-4.70e-05	-1.51e-05	0.0
561	72	-2.29e-04	8.33e-04	-0.04	-4.05e-05	-1.32e-05	0.0
562	2	-4.66e-04	2.27e-03	-0.05	-1.11e-04	-2.61e-05	0.0
562	13	2.00e-03	2.14e-03	-0.04	-7.12e-05	-1.57e-05	0.0
562	20	-2.64e-03	8.62e-04	-0.04	-6.61e-05	-1.72e-05	0.0
562	21	3.32e-04	3.72e-03	-0.04	-7.30e-05	-1.59e-05	0.0
562	45	3.35e-03	2.58e-03	-0.04	-7.28e-05	-1.53e-05	0.0
562	52	-4.02e-03	5.43e-04	-0.04	-6.46e-05	-1.77e-05	0.0
562	53	7.02e-04	5.09e-03	-0.04	-7.55e-05	-1.56e-05	0.0
562	70	-3.50e-04	1.70e-03	-0.04	-8.29e-05	-1.96e-05	0.0
562	72	-3.06e-04	1.46e-03	-0.04	-7.14e-05	-1.71e-05	0.0
563	2	-6.70e-04	3.23e-03	-0.06	-1.58e-04	-3.67e-05	0.0
563	20	-2.81e-03	1.44e-03	-0.04	-9.35e-05	-2.42e-05	0.0
563	21	1.82e-04	4.37e-03	-0.04	-1.05e-04	-2.24e-05	0.0
563	25	2.11e-04	4.36e-03	-0.04	-1.05e-04	-2.23e-05	0.0
563	52	-4.21e-03	1.12e-03	-0.04	-9.13e-05	-2.48e-05	0.0
563	53	5.40e-04	5.77e-03	-0.04	-1.09e-04	-2.19e-05	0.0
563	57	5.86e-04	5.76e-03	-0.04	-1.10e-04	-2.18e-05	0.0
563	70	-5.03e-04	2.41e-03	-0.04	-1.18e-04	-2.75e-05	0.0
563	72	-4.39e-04	2.07e-03	-0.04	-1.01e-04	-2.40e-05	0.0
564	2	-9.88e-04	4.10e-03	-0.07	-2.00e-04	-5.37e-05	0.0
564	20	-3.04e-03	1.96e-03	-0.05	-1.18e-04	-3.46e-05	0.0
564	21	-4.00e-05	5.00e-03	-0.05	-1.36e-04	-3.31e-05	0.0
564	25	-2.89e-06	4.98e-03	-0.05	-1.36e-04	-3.29e-05	0.0
564	52	-4.47e-03	1.62e-03	-0.05	-1.15e-04	-3.52e-05	0.0
564	53	3.03e-04	6.46e-03	-0.05	-1.43e-04	-3.27e-05	0.0
564	57	3.62e-04	6.43e-03	-0.05	-1.43e-04	-3.25e-05	0.0
564	70	-7.41e-04	3.06e-03	-0.05	-1.50e-04	-4.03e-05	0.0
564	72	-6.45e-04	2.63e-03	-0.05	-1.29e-04	-3.50e-05	0.0
565	2	-1.44e-03	4.78e-03	-0.08	-2.33e-04	-7.85e-05	0.0
565	20	-3.35e-03	2.34e-03	-0.05	-1.37e-04	-4.93e-05	0.0
565	21	-3.80e-04	5.52e-03	-0.06	-1.60e-04	-5.04e-05	0.0
565	25	-3.36e-04	5.50e-03	-0.06	-1.61e-04	-5.03e-05	0.0
565	52	-4.79e-03	2.00e-03	-0.05	-1.33e-04	-4.95e-05	0.0
565	53	-7.17e-05	7.04e-03	-0.06	-1.71e-04	-5.12e-05	0.0
565	57	-1.55e-06	7.01e-03	-0.06	-1.71e-04	-5.10e-05	0.0
565	70	-1.08e-03	3.57e-03	-0.06	-1.74e-04	-5.89e-05	0.0
565	72	-9.38e-04	3.06e-03	-0.06	-1.49e-04	-5.10e-05	0.0

566	2	-2.02e-03	5.06e-03	-0.09	-2.46e-04	-1.08e-04	0.0
566	20	-3.73e-03	2.48e-03	-0.06	-1.44e-04	-6.68e-05	0.0
566	21	-8.31e-04	5.75e-03	-0.07	-1.71e-04	-7.18e-05	0.0
566	25	-7.79e-04	5.73e-03	-0.07	-1.72e-04	-7.17e-05	0.0
566	52	-5.19e-03	2.12e-03	-0.06	-1.40e-04	-6.67e-05	0.0
566	53	-5.81e-04	7.31e-03	-0.07	-1.84e-04	-7.47e-05	0.0
566	57	-4.98e-04	7.29e-03	-0.07	-1.84e-04	-7.45e-05	0.0
566	70	-1.51e-03	3.77e-03	-0.07	-1.83e-04	-8.08e-05	0.0
566	72	-1.31e-03	3.23e-03	-0.06	-1.57e-04	-6.97e-05	0.0
567	2	-1.99e-03	-4.40e-03	-0.09	2.17e-04	-1.06e-04	0.0
567	11	-3.64e-03	-2.11e-03	-0.06	1.27e-04	-6.18e-05	0.0
567	22	-7.83e-04	-5.29e-03	-0.06	1.51e-04	-7.18e-05	0.0
567	26	-8.26e-04	-5.30e-03	-0.06	1.51e-04	-7.16e-05	0.0
567	43	-5.06e-03	-1.76e-03	-0.06	1.23e-04	-5.96e-05	0.0
567	54	-5.15e-04	-6.82e-03	-0.06	1.62e-04	-7.54e-05	0.0
567	58	-5.83e-04	-6.84e-03	-0.06	1.61e-04	-7.51e-05	0.0
567	70	-1.49e-03	-3.29e-03	-0.06	1.62e-04	-7.93e-05	0.0
567	72	-1.29e-03	-2.81e-03	-0.06	1.39e-04	-6.84e-05	0.0
568	2	-1.70e-03	-4.29e-03	-0.08	2.12e-04	-9.04e-05	0.0
568	11	-3.45e-03	-2.05e-03	-0.05	1.24e-04	-5.32e-05	0.0
568	22	-5.49e-04	-5.19e-03	-0.06	1.47e-04	-6.01e-05	0.0
568	26	-5.89e-04	-5.21e-03	-0.06	1.46e-04	-5.99e-05	0.0
568	43	-4.87e-03	-1.70e-03	-0.05	1.20e-04	-5.15e-05	0.0
568	54	-2.49e-04	-6.70e-03	-0.06	1.56e-04	-6.23e-05	0.0
568	58	-3.12e-04	-6.73e-03	-0.06	1.56e-04	-6.21e-05	0.0
568	70	-1.27e-03	-3.20e-03	-0.06	1.58e-04	-6.77e-05	0.0
568	72	-1.10e-03	-2.74e-03	-0.06	1.36e-04	-5.85e-05	0.0
569	2	-1.23e-03	-3.87e-03	-0.07	1.91e-04	-6.57e-05	0.0
569	11	-3.15e-03	-1.81e-03	-0.05	1.12e-04	-3.93e-05	0.0
569	22	-2.00e-04	-4.87e-03	-0.05	1.31e-04	-4.25e-05	0.0
569	26	-2.32e-04	-4.88e-03	-0.05	1.31e-04	-4.24e-05	0.0
569	43	-4.55e-03	-1.47e-03	-0.05	1.09e-04	-3.82e-05	0.0
569	54	1.38e-04	-6.34e-03	-0.05	1.39e-04	-4.33e-05	0.0
569	58	8.54e-05	-6.36e-03	-0.05	1.38e-04	-4.31e-05	0.0
569	70	-9.24e-04	-2.89e-03	-0.05	1.43e-04	-4.93e-05	0.0
569	72	-8.02e-04	-2.48e-03	-0.05	1.23e-04	-4.27e-05	0.0
570	2	-8.59e-04	-3.20e-03	-0.06	1.59e-04	-4.62e-05	0.0
570	11	-2.90e-03	-1.42e-03	-0.04	9.36e-05	-2.81e-05	0.0
570	22	7.10e-05	-4.39e-03	-0.04	1.07e-04	-2.91e-05	0.0
570	26	4.48e-05	-4.40e-03	-0.04	1.07e-04	-2.90e-05	0.0
570	43	-4.29e-03	-1.09e-03	-0.04	9.11e-05	-2.75e-05	0.0
570	54	4.31e-04	-5.81e-03	-0.04	1.12e-04	-2.91e-05	0.0
570	58	3.90e-04	-5.84e-03	-0.04	1.12e-04	-2.90e-05	0.0
570	70	-6.44e-04	-2.39e-03	-0.05	1.19e-04	-3.47e-05	0.0
570	72	-5.61e-04	-2.06e-03	-0.04	1.02e-04	-3.02e-05	0.0
571	2	-5.94e-04	-2.40e-03	-0.05	1.19e-04	-3.26e-05	0.0
571	11	-2.71e-03	-9.34e-04	-0.04	7.05e-05	-2.02e-05	0.0
571	22	2.59e-04	-3.83e-03	-0.04	7.92e-05	-2.03e-05	0.0
571	26	2.40e-04	-3.84e-03	-0.04	7.91e-05	-2.03e-05	0.0
571	43	-4.08e-03	-6.13e-04	-0.04	6.88e-05	-1.99e-05	0.0
571	54	6.33e-04	-5.22e-03	-0.04	8.27e-05	-2.02e-05	0.0
571	58	6.03e-04	-5.24e-03	-0.04	8.23e-05	-2.02e-05	0.0
571	70	-4.45e-04	-1.79e-03	-0.04	8.89e-05	-2.45e-05	0.0
571	72	-3.89e-04	-1.54e-03	-0.04	7.66e-05	-2.14e-05	0.0
572	2	-4.25e-04	-1.53e-03	-0.05	7.60e-05	-2.41e-05	0.0
572	6	2.00e-03	-1.69e-03	-0.04	4.90e-05	-1.55e-05	0.0
572	11	-2.57e-03	-3.99e-04	-0.04	4.50e-05	-1.50e-05	0.0
572	26	3.70e-04	-3.26e-03	-0.04	5.01e-05	-1.50e-05	0.0
572	38	3.33e-03	-2.14e-03	-0.04	5.02e-05	-1.56e-05	0.0
572	43	-3.93e-03	-7.98e-05	-0.04	4.39e-05	-1.48e-05	0.0
572	58	7.47e-04	-4.62e-03	-0.04	5.20e-05	-1.49e-05	0.0
572	70	-3.19e-04	-1.14e-03	-0.04	5.67e-05	-1.81e-05	0.0
572	72	-2.79e-04	-9.81e-04	-0.04	4.89e-05	-1.58e-05	0.0
573	2	-3.37e-04	-6.23e-04	-0.04	3.14e-05	-1.97e-05	0.0
573	6	2.04e-03	-9.95e-04	-0.03	2.06e-05	-1.27e-05	0.0
573	11	-2.49e-03	1.79e-05	-0.03	1.83e-05	-1.23e-05	0.0
573	26	4.47e-04	-2.68e-03	-0.03	2.13e-05	-1.24e-05	0.0
573	38	3.37e-03	-1.35e-03	-0.03	2.13e-05	-1.28e-05	0.0
573	43	-3.83e-03	2.55e-04	-0.03	1.76e-05	-1.21e-05	0.0
573	58	8.37e-04	-4.03e-03	-0.03	2.24e-05	-1.24e-05	0.0
573	70	-2.53e-04	-4.66e-04	-0.03	2.35e-05	-1.48e-05	0.0
573	72	-2.22e-04	-4.01e-04	-0.03	2.02e-05	-1.29e-05	0.0
574	2	-3.22e-04	2.88e-04	-0.04	-1.36e-05	-1.89e-05	0.0
574	17	2.06e-03	5.77e-04	-0.03	-9.33e-06	-1.22e-05	0.0
574	20	-2.47e-03	-2.21e-04	-0.03	-7.44e-06	-1.18e-05	0.0
574	21	4.64e-04	2.46e-03	-0.03	-1.01e-05	-1.20e-05	0.0

574	49	3.40e-03	8.12e-04	-0.03	-9.88e-06	-1.24e-05	0.0
574	52	-3.81e-03	-4.56e-04	-0.03	-6.88e-06	-1.17e-05	0.0
574	53	8.59e-04	3.81e-03	-0.03	-1.11e-05	-1.20e-05	0.0
574	70	-2.42e-04	2.15e-04	-0.03	-1.01e-05	-1.42e-05	0.0
574	72	-2.12e-04	1.85e-04	-0.03	-8.73e-06	-1.25e-05	0.0
575	2	-3.77e-04	1.20e-03	-0.05	-5.84e-05	-2.17e-05	0.0
575	13	2.03e-03	1.35e-03	-0.04	-3.77e-05	-1.40e-05	0.0
575	20	-2.54e-03	3.30e-04	-0.03	-3.45e-05	-1.35e-05	0.0
575	21	4.08e-04	3.04e-03	-0.04	-3.86e-05	-1.35e-05	0.0
575	45	3.37e-03	1.72e-03	-0.04	-3.87e-05	-1.41e-05	0.0
575	52	-3.89e-03	8.94e-05	-0.03	-3.36e-05	-1.34e-05	0.0
575	53	7.90e-04	4.40e-03	-0.04	-4.01e-05	-1.34e-05	0.0
575	70	-2.83e-04	8.93e-04	-0.04	-4.36e-05	-1.63e-05	0.0
575	72	-2.48e-04	7.69e-04	-0.04	-3.76e-05	-1.43e-05	0.0
576	2	-5.08e-04	2.08e-03	-0.05	-1.02e-04	-2.84e-05	0.0
576	13	1.95e-03	2.04e-03	-0.04	-6.59e-05	-1.82e-05	0.0
576	20	-2.65e-03	7.40e-04	-0.04	-6.06e-05	-1.76e-05	0.0
576	21	3.03e-04	3.63e-03	-0.04	-6.76e-05	-1.76e-05	0.0
576	45	3.29e-03	2.49e-03	-0.04	-6.75e-05	-1.84e-05	0.0
576	52	-4.02e-03	4.20e-04	-0.04	-5.91e-05	-1.74e-05	0.0
576	53	6.71e-04	5.01e-03	-0.04	-7.03e-05	-1.74e-05	0.0
576	70	-3.81e-04	1.56e-03	-0.04	-7.64e-05	-2.13e-05	0.0
576	72	-3.33e-04	1.34e-03	-0.04	-6.58e-05	-1.86e-05	0.0
577	2	-7.30e-04	2.92e-03	-0.06	-1.44e-04	-3.99e-05	0.0
577	20	-2.81e-03	1.25e-03	-0.04	-8.48e-05	-2.45e-05	0.0
577	21	1.38e-04	4.20e-03	-0.04	-9.60e-05	-2.49e-05	0.0
577	25	1.64e-04	4.19e-03	-0.04	-9.62e-05	-2.49e-05	0.0
577	52	-4.20e-03	9.23e-04	-0.04	-8.27e-05	-2.41e-05	0.0
577	53	4.90e-04	5.62e-03	-0.04	-1.00e-04	-2.48e-05	0.0
577	57	5.32e-04	5.60e-03	-0.04	-1.01e-04	-2.49e-05	0.0
577	70	-5.47e-04	2.18e-03	-0.04	-1.07e-04	-2.99e-05	0.0
577	72	-4.77e-04	1.88e-03	-0.04	-9.23e-05	-2.60e-05	0.0
578	2	-1.06e-03	3.64e-03	-0.06	-1.79e-04	-5.71e-05	0.0
578	20	-3.04e-03	1.68e-03	-0.05	-1.05e-04	-3.43e-05	0.0
578	21	-1.05e-04	4.72e-03	-0.05	-1.22e-04	-3.64e-05	0.0
578	25	-7.19e-05	4.70e-03	-0.05	-1.22e-04	-3.65e-05	0.0
578	52	-4.44e-03	1.34e-03	-0.05	-1.03e-04	-3.34e-05	0.0
578	53	2.24e-04	6.18e-03	-0.05	-1.28e-04	-3.69e-05	0.0
578	57	2.77e-04	6.15e-03	-0.05	-1.29e-04	-3.70e-05	0.0
578	70	-7.93e-04	2.72e-03	-0.05	-1.34e-04	-4.28e-05	0.0
578	72	-6.89e-04	2.34e-03	-0.05	-1.15e-04	-3.71e-05	0.0
579	2	-1.49e-03	4.16e-03	-0.07	-2.04e-04	-8.00e-05	0.0
579	20	-3.32e-03	1.97e-03	-0.05	-1.20e-04	-4.73e-05	0.0
579	21	-4.33e-04	5.10e-03	-0.05	-1.41e-04	-5.24e-05	0.0
579	25	-3.94e-04	5.09e-03	-0.05	-1.41e-04	-5.25e-05	0.0
579	52	-4.73e-03	1.63e-03	-0.05	-1.17e-04	-4.58e-05	0.0
579	53	-1.39e-04	6.61e-03	-0.06	-1.49e-04	-5.39e-05	0.0
579	57	-7.68e-05	6.59e-03	-0.06	-1.50e-04	-5.41e-05	0.0
579	70	-1.12e-03	3.11e-03	-0.06	-1.53e-04	-5.99e-05	0.0
579	72	-9.69e-04	2.67e-03	-0.05	-1.31e-04	-5.18e-05	0.0
580	2	-1.99e-03	4.39e-03	-0.08	-2.15e-04	-1.06e-04	0.0
580	20	-3.64e-03	2.10e-03	-0.06	-1.26e-04	-6.17e-05	0.0
580	21	-8.25e-04	5.29e-03	-0.06	-1.50e-04	-7.13e-05	0.0
580	25	-7.79e-04	5.28e-03	-0.06	-1.50e-04	-7.15e-05	0.0
580	52	-5.06e-03	1.75e-03	-0.06	-1.22e-04	-5.95e-05	0.0
580	53	-5.83e-04	6.83e-03	-0.06	-1.60e-04	-7.47e-05	0.0
580	57	-5.11e-04	6.81e-03	-0.06	-1.60e-04	-7.50e-05	0.0
580	70	-1.49e-03	3.28e-03	-0.06	-1.61e-04	-7.91e-05	0.0
580	72	-1.29e-03	2.81e-03	-0.06	-1.38e-04	-6.82e-05	0.0
581	2	-1.55e-03	-3.88e-03	-0.08	1.93e-04	-8.31e-05	0.0
581	11	-3.32e-03	-1.80e-03	-0.05	1.13e-04	-4.58e-05	0.0
581	22	-4.93e-04	-4.93e-03	-0.06	1.33e-04	-5.71e-05	0.0
581	26	-5.32e-04	-4.94e-03	-0.06	1.33e-04	-5.67e-05	0.0
581	43	-4.72e-03	-1.45e-03	-0.05	1.10e-04	-4.25e-05	0.0
581	54	-2.15e-04	-6.43e-03	-0.06	1.42e-04	-6.04e-05	0.0
581	58	-2.77e-04	-6.46e-03	-0.06	1.42e-04	-5.98e-05	0.0
581	70	-1.16e-03	-2.90e-03	-0.06	1.44e-04	-6.22e-05	0.0
581	72	-1.00e-03	-2.48e-03	-0.06	1.24e-04	-5.37e-05	0.0
582	2	-1.34e-03	-3.79e-03	-0.07	1.89e-04	-7.18e-05	0.0
582	11	-3.19e-03	-1.75e-03	-0.05	1.11e-04	-3.98e-05	0.0
582	22	-3.23e-04	-4.86e-03	-0.05	1.30e-04	-4.86e-05	0.0
582	26	-3.59e-04	-4.87e-03	-0.05	1.30e-04	-4.83e-05	0.0
582	43	-4.58e-03	-1.40e-03	-0.05	1.08e-04	-3.70e-05	0.0
582	54	-2.23e-05	-6.35e-03	-0.06	1.38e-04	-5.10e-05	0.0
582	58	-7.95e-05	-6.37e-03	-0.06	1.38e-04	-5.04e-05	0.0
582	70	-1.00e-03	-2.83e-03	-0.06	1.41e-04	-5.37e-05	0.0

582	72	-8.66e-04	-2.43e-03	-0.05	1.21e-04	-4.64e-05	0.0
583	2	-9.94e-04	-3.44e-03	-0.07	1.71e-04	-5.37e-05	0.0
583	11	-2.97e-03	-1.54e-03	-0.05	1.01e-04	-3.00e-05	0.0
583	22	-5.95e-05	-4.60e-03	-0.05	1.17e-04	-3.56e-05	0.0
583	26	-8.97e-05	-4.61e-03	-0.05	1.17e-04	-3.54e-05	0.0
583	43	-4.35e-03	-1.21e-03	-0.05	9.87e-05	-2.80e-05	0.0
583	54	2.72e-04	-6.07e-03	-0.05	1.24e-04	-3.69e-05	0.0
583	58	2.24e-04	-6.09e-03	-0.05	1.23e-04	-3.65e-05	0.0
583	70	-7.45e-04	-2.57e-03	-0.05	1.28e-04	-4.02e-05	0.0
583	72	-6.45e-04	-2.21e-03	-0.05	1.10e-04	-3.49e-05	0.0
584	2	-7.07e-04	-2.88e-03	-0.06	1.44e-04	-3.88e-05	0.0
584	11	-2.78e-03	-1.21e-03	-0.04	8.51e-05	-2.19e-05	0.0
584	22	1.57e-04	-4.20e-03	-0.04	9.70e-05	-2.52e-05	0.0
584	26	1.32e-04	-4.21e-03	-0.04	9.68e-05	-2.50e-05	0.0
584	43	-4.15e-03	-8.83e-04	-0.04	8.31e-05	-2.05e-05	0.0
584	54	5.11e-04	-5.63e-03	-0.04	1.02e-04	-2.58e-05	0.0
584	58	4.72e-04	-5.65e-03	-0.04	1.02e-04	-2.55e-05	0.0
584	70	-5.30e-04	-2.15e-03	-0.04	1.07e-04	-2.91e-05	0.0
584	72	-4.61e-04	-1.85e-03	-0.04	9.23e-05	-2.53e-05	0.0
585	2	-4.92e-04	-2.18e-03	-0.05	1.09e-04	-2.78e-05	0.0
585	11	-2.62e-03	-7.91e-04	-0.04	6.47e-05	-1.61e-05	0.0
585	22	3.16e-04	-3.72e-03	-0.04	7.28e-05	-1.78e-05	0.0
585	26	2.99e-04	-3.73e-03	-0.04	7.26e-05	-1.77e-05	0.0
585	43	-3.99e-03	-4.64e-04	-0.04	6.32e-05	-1.52e-05	0.0
585	54	6.86e-04	-5.12e-03	-0.04	7.60e-05	-1.80e-05	0.0
585	58	6.58e-04	-5.13e-03	-0.04	7.58e-05	-1.78e-05	0.0
585	70	-3.69e-04	-1.63e-03	-0.04	8.13e-05	-2.09e-05	0.0
585	72	-3.22e-04	-1.40e-03	-0.04	7.00e-05	-1.82e-05	0.0
586	2	-3.52e-04	-1.40e-03	-0.05	7.00e-05	-2.07e-05	0.0
586	6	2.03e-03	-1.47e-03	-0.04	4.51e-05	-1.42e-05	0.0
586	11	-2.51e-03	-4.74e-04	-0.04	4.15e-05	-1.20e-05	0.0
586	26	4.13e-04	-3.20e-03	-0.04	4.65e-05	-1.32e-05	0.0
586	38	3.36e-03	-1.84e-03	-0.04	4.61e-05	-1.48e-05	0.0
586	43	-3.86e-03	-2.45e-04	-0.03	4.06e-05	-1.14e-05	0.0
586	58	7.88e-04	-4.58e-03	-0.04	4.84e-05	-1.32e-05	0.0
586	70	-2.64e-04	-1.04e-03	-0.04	5.23e-05	-1.55e-05	0.0
586	72	-2.31e-04	-8.98e-04	-0.04	4.50e-05	-1.36e-05	0.0
587	2	-2.77e-04	-5.73e-04	-0.04	2.90e-05	-1.70e-05	0.0
587	6	2.07e-03	-9.54e-04	-0.03	1.90e-05	-1.16e-05	0.0
587	11	-2.44e-03	2.53e-05	-0.03	1.69e-05	-9.92e-06	0.0
587	26	4.82e-04	-2.67e-03	-0.03	2.00e-05	-1.09e-05	0.0
587	38	3.40e-03	-1.31e-03	-0.03	1.97e-05	-1.21e-05	0.0
587	43	-3.78e-03	2.49e-04	-0.03	1.63e-05	-9.41e-06	0.0
587	58	8.71e-04	-4.04e-03	-0.03	2.12e-05	-1.10e-05	0.0
587	70	-2.08e-04	-4.28e-04	-0.03	2.17e-05	-1.27e-05	0.0
587	72	-1.83e-04	-3.68e-04	-0.03	1.87e-05	-1.12e-05	0.0
588	2	-2.64e-04	2.67e-04	-0.04	-1.26e-05	-1.63e-05	0.0
588	13	2.08e-03	7.62e-04	-0.03	-8.72e-06	-1.12e-05	0.0
588	20	-2.43e-03	-2.11e-04	-0.03	-6.91e-06	-9.56e-06	0.0
588	21	4.98e-04	2.48e-03	-0.03	-9.67e-06	-1.06e-05	0.0
588	45	3.41e-03	1.11e-03	-0.03	-9.27e-06	-1.17e-05	0.0
588	52	-3.76e-03	-4.32e-04	-0.03	-6.39e-06	-9.07e-06	0.0
588	53	8.91e-04	3.84e-03	-0.03	-1.08e-05	-1.07e-05	0.0
588	70	-1.98e-04	1.99e-04	-0.03	-9.43e-06	-1.23e-05	0.0
588	72	-1.75e-04	1.72e-04	-0.03	-8.12e-06	-1.08e-05	0.0
589	2	-3.11e-04	1.10e-03	-0.05	-5.40e-05	-1.87e-05	0.0
589	13	2.06e-03	1.28e-03	-0.03	-3.49e-05	-1.29e-05	0.0
589	20	-2.48e-03	2.95e-04	-0.03	-3.19e-05	-1.09e-05	0.0
589	21	4.46e-04	3.01e-03	-0.03	-3.60e-05	-1.19e-05	0.0
589	45	3.39e-03	1.64e-03	-0.03	-3.58e-05	-1.34e-05	0.0
589	52	-3.83e-03	6.93e-05	-0.03	-3.11e-05	-1.03e-05	0.0
589	53	8.26e-04	4.38e-03	-0.03	-3.76e-05	-1.20e-05	0.0
589	70	-2.34e-04	8.22e-04	-0.03	-4.03e-05	-1.41e-05	0.0
589	72	-2.05e-04	7.07e-04	-0.03	-3.47e-05	-1.23e-05	0.0
590	2	-4.23e-04	1.90e-03	-0.05	-9.39e-05	-2.44e-05	0.0
590	20	-2.58e-03	7.79e-04	-0.04	-5.58e-05	-1.41e-05	0.0
590	21	3.52e-04	3.54e-03	-0.04	-6.24e-05	-1.55e-05	0.0
590	25	3.70e-04	3.48e-03	-0.04	-6.25e-05	-1.56e-05	0.0
590	52	-3.94e-03	5.46e-04	-0.04	-5.45e-05	-1.33e-05	0.0
590	53	7.17e-04	4.93e-03	-0.04	-6.50e-05	-1.56e-05	0.0
590	57	7.45e-04	4.85e-03	-0.04	-6.53e-05	-1.57e-05	0.0
590	70	-3.17e-04	1.42e-03	-0.04	-7.01e-05	-1.83e-05	0.0
590	72	-2.77e-04	1.22e-03	-0.04	-6.04e-05	-1.60e-05	0.0
591	2	-6.05e-04	2.64e-03	-0.05	-1.31e-04	-3.38e-05	0.0
591	20	-2.71e-03	1.07e-03	-0.04	-7.74e-05	-1.91e-05	0.0
591	21	2.08e-04	4.04e-03	-0.04	-8.75e-05	-2.16e-05	0.0

591	25	2.33e-04	4.03e-03	-0.04	-8.77e-05	-2.18e-05	0.0
591	52	-4.08e-03	7.38e-04	-0.04	-7.56e-05	-1.79e-05	0.0
591	53	5.56e-04	5.46e-03	-0.04	-9.16e-05	-2.18e-05	0.0
591	57	5.94e-04	5.45e-03	-0.04	-9.19e-05	-2.21e-05	0.0
591	70	-4.54e-04	1.97e-03	-0.04	-9.75e-05	-2.54e-05	0.0
591	72	-3.95e-04	1.70e-03	-0.04	-8.39e-05	-2.21e-05	0.0
592	2	-8.64e-04	3.26e-03	-0.06	-1.61e-04	-4.72e-05	0.0
592	20	-2.89e-03	1.44e-03	-0.04	-9.54e-05	-2.65e-05	0.0
592	21	8.16e-06	4.48e-03	-0.05	-1.09e-04	-3.09e-05	0.0
592	25	3.88e-05	4.47e-03	-0.05	-1.09e-04	-3.11e-05	0.0
592	52	-4.27e-03	1.10e-03	-0.04	-9.31e-05	-2.47e-05	0.0
592	53	3.32e-04	5.93e-03	-0.05	-1.15e-04	-3.16e-05	0.0
592	57	3.81e-04	5.92e-03	-0.05	-1.15e-04	-3.20e-05	0.0
592	70	-6.47e-04	2.43e-03	-0.05	-1.20e-04	-3.54e-05	0.0
592	72	-5.62e-04	2.09e-03	-0.05	-1.03e-04	-3.07e-05	0.0
593	2	-1.19e-03	3.69e-03	-0.07	-1.82e-04	-6.41e-05	0.0
593	20	-3.10e-03	1.69e-03	-0.05	-1.08e-04	-3.57e-05	0.0
593	21	-2.44e-04	4.79e-03	-0.05	-1.25e-04	-4.28e-05	0.0
593	25	-2.08e-04	4.78e-03	-0.05	-1.25e-04	-4.31e-05	0.0
593	52	-4.49e-03	1.35e-03	-0.05	-1.05e-04	-3.33e-05	0.0
593	53	4.83e-05	6.28e-03	-0.05	-1.32e-04	-4.44e-05	0.0
593	57	1.06e-04	6.27e-03	-0.05	-1.33e-04	-4.49e-05	0.0
593	70	-8.90e-04	2.76e-03	-0.05	-1.36e-04	-4.80e-05	0.0
593	72	-7.70e-04	2.37e-03	-0.05	-1.17e-04	-4.16e-05	0.0
594	2	-1.55e-03	3.88e-03	-0.08	-1.92e-04	-8.28e-05	0.0
594	20	-3.32e-03	1.79e-03	-0.05	-1.13e-04	-4.58e-05	0.0
594	21	-5.31e-04	4.94e-03	-0.06	-1.32e-04	-5.65e-05	0.0
594	25	-4.89e-04	4.93e-03	-0.06	-1.32e-04	-5.69e-05	0.0
594	52	-4.72e-03	1.45e-03	-0.05	-1.10e-04	-4.25e-05	0.0
594	53	-2.78e-04	6.45e-03	-0.06	-1.41e-04	-5.95e-05	0.0
594	57	-2.11e-04	6.43e-03	-0.06	-1.41e-04	-6.01e-05	0.0
594	70	-1.16e-03	2.90e-03	-0.06	-1.43e-04	-6.20e-05	0.0
594	72	-1.00e-03	2.48e-03	-0.06	-1.23e-04	-5.35e-05	0.0
595	2	-8.80e-04	-3.54e-03	-0.08	1.77e-04	-4.87e-05	0.0
595	11	-2.88e-03	-1.77e-03	-0.05	1.05e-04	-2.36e-05	0.0
595	22	-4.42e-05	-4.66e-03	-0.06	1.22e-04	-3.45e-05	0.0
595	26	-8.17e-05	-4.72e-03	-0.06	1.22e-04	-3.40e-05	0.0
595	43	-4.26e-03	-1.54e-03	-0.05	1.03e-04	-1.97e-05	0.0
595	54	2.52e-04	-6.12e-03	-0.06	1.29e-04	-3.70e-05	0.0
595	58	1.93e-04	-6.22e-03	-0.06	1.29e-04	-3.62e-05	0.0
595	70	-6.59e-04	-2.64e-03	-0.06	1.32e-04	-3.65e-05	0.0
595	72	-5.69e-04	-2.27e-03	-0.05	1.14e-04	-3.14e-05	0.0
596	2	-7.59e-04	-3.47e-03	-0.07	1.74e-04	-4.23e-05	0.0
596	11	-2.81e-03	-1.73e-03	-0.05	1.03e-04	-2.06e-05	0.0
596	22	5.61e-05	-4.60e-03	-0.05	1.19e-04	-2.96e-05	0.0
596	26	2.16e-05	-4.66e-03	-0.05	1.19e-04	-2.92e-05	0.0
596	43	-4.19e-03	-1.50e-03	-0.05	1.01e-04	-1.72e-05	0.0
596	54	3.68e-04	-6.05e-03	-0.05	1.26e-04	-3.16e-05	0.0
596	58	3.13e-04	-6.16e-03	-0.05	1.26e-04	-3.09e-05	0.0
596	70	-5.69e-04	-2.59e-03	-0.05	1.30e-04	-3.17e-05	0.0
596	72	-4.91e-04	-2.22e-03	-0.05	1.11e-04	-2.74e-05	0.0
597	2	-5.65e-04	-3.16e-03	-0.06	1.58e-04	-3.22e-05	0.0
597	11	-2.68e-03	-1.55e-03	-0.04	9.43e-05	-1.57e-05	0.0
597	22	2.13e-04	-4.37e-03	-0.05	1.08e-04	-2.22e-05	0.0
597	26	1.84e-04	-4.44e-03	-0.05	1.07e-04	-2.19e-05	0.0
597	43	-4.06e-03	-1.32e-03	-0.04	9.25e-05	-1.31e-05	0.0
597	54	5.47e-04	-5.81e-03	-0.05	1.13e-04	-2.35e-05	0.0
597	58	5.01e-04	-5.91e-03	-0.05	1.13e-04	-2.29e-05	0.0
597	70	-4.24e-04	-2.36e-03	-0.05	1.18e-04	-2.41e-05	0.0
597	72	-3.67e-04	-2.03e-03	-0.05	1.02e-04	-2.09e-05	0.0
598	2	-4.00e-04	-2.66e-03	-0.06	1.33e-04	-2.37e-05	0.0
598	11	-2.57e-03	-1.26e-03	-0.04	7.97e-05	-1.16e-05	0.0
598	22	3.46e-04	-4.02e-03	-0.04	8.98e-05	-1.61e-05	0.0
598	26	3.23e-04	-4.09e-03	-0.04	8.97e-05	-1.58e-05	0.0
598	43	-3.94e-03	-1.04e-03	-0.04	7.82e-05	-9.60e-06	0.0
598	54	6.99e-04	-5.43e-03	-0.04	9.43e-05	-1.68e-05	0.0
598	58	6.62e-04	-5.53e-03	-0.04	9.42e-05	-1.64e-05	0.0
598	70	-3.00e-04	-1.99e-03	-0.04	9.96e-05	-1.78e-05	0.0
598	72	-2.61e-04	-1.71e-03	-0.04	8.57e-05	-1.55e-05	0.0
599	2	-2.73e-04	-2.03e-03	-0.05	1.02e-04	-1.72e-05	0.0
599	11	-2.47e-03	-8.80e-04	-0.04	6.08e-05	-8.46e-06	0.0
599	22	4.49e-04	-3.58e-03	-0.04	6.79e-05	-1.15e-05	0.0
599	26	4.32e-04	-3.65e-03	-0.04	6.78e-05	-1.13e-05	0.0
599	43	-3.83e-03	-6.62e-04	-0.04	5.97e-05	-7.03e-06	0.0
599	54	8.17e-04	-4.96e-03	-0.04	7.10e-05	-1.19e-05	0.0
599	58	7.90e-04	-5.06e-03	-0.04	7.08e-05	-1.16e-05	0.0

599	70	-2.05e-04	-1.51e-03	-0.04	7.59e-05	-1.29e-05	0.0
599	72	-1.80e-04	-1.30e-03	-0.04	6.53e-05	-1.13e-05	0.0
600	2	-1.88e-04	-1.30e-03	-0.05	6.56e-05	-1.29e-05	0.0
600	11	-2.40e-03	-4.45e-04	-0.03	3.92e-05	-6.53e-06	0.0
600	22	5.22e-04	-3.10e-03	-0.03	4.38e-05	-8.66e-06	0.0
600	26	5.12e-04	-3.17e-03	-0.03	4.37e-05	-8.55e-06	0.0
600	43	-3.75e-03	-2.33e-04	-0.03	3.85e-05	-5.53e-06	0.0
600	54	9.01e-04	-4.46e-03	-0.04	4.58e-05	-8.92e-06	0.0
600	58	8.85e-04	-4.56e-03	-0.04	4.56e-05	-8.75e-06	0.0
600	70	-1.41e-04	-9.74e-04	-0.04	4.90e-05	-9.70e-06	0.0
600	72	-1.25e-04	-8.38e-04	-0.03	4.22e-05	-8.52e-06	0.0
601	1	-1.20e-04	-4.31e-04	-0.04	2.20e-05	-8.86e-06	0.0
601	2	-1.43e-04	-5.35e-04	-0.04	2.73e-05	-1.06e-05	0.0
601	6	2.15e-03	-9.18e-04	-0.03	1.78e-05	-8.17e-06	0.0
601	11	-2.35e-03	2.25e-05	-0.03	1.60e-05	-5.44e-06	0.0
601	26	5.64e-04	-2.67e-03	-0.03	1.90e-05	-7.13e-06	0.0
601	38	3.47e-03	-1.27e-03	-0.03	1.83e-05	-8.98e-06	0.0
601	43	-3.68e-03	2.30e-04	-0.03	1.55e-05	-4.64e-06	0.0
601	58	9.51e-04	-4.05e-03	-0.03	2.02e-05	-7.33e-06	0.0
601	69	-9.25e-05	-3.30e-04	-0.03	1.68e-05	-6.81e-06	0.0
601	70	-1.07e-04	-4.00e-04	-0.03	2.04e-05	-8.00e-06	0.0
601	71	-9.25e-05	-3.30e-04	-0.03	1.68e-05	-6.81e-06	0.0
601	72	-9.55e-05	-3.44e-04	-0.03	1.75e-05	-7.04e-06	0.0
602	1	-1.14e-04	2.02e-04	-0.04	-9.59e-06	-8.55e-06	0.0
602	2	-1.35e-04	2.51e-04	-0.04	-1.19e-05	-1.03e-05	0.0
602	13	2.16e-03	7.41e-04	-0.03	-8.14e-06	-7.87e-06	0.0
602	20	-2.34e-03	-1.96e-04	-0.03	-6.62e-06	-5.26e-06	0.0
602	21	5.76e-04	2.49e-03	-0.03	-9.30e-06	-6.91e-06	0.0
602	45	3.48e-03	1.09e-03	-0.03	-8.61e-06	-8.64e-06	0.0
602	52	-3.66e-03	-4.03e-04	-0.03	-6.19e-06	-4.49e-06	0.0
602	53	9.68e-04	3.87e-03	-0.03	-1.04e-05	-7.11e-06	0.0
602	69	-8.75e-05	1.55e-04	-0.03	-7.34e-06	-6.57e-06	0.0
602	70	-1.01e-04	1.88e-04	-0.03	-8.89e-06	-7.71e-06	0.0
602	71	-8.75e-05	1.55e-04	-0.03	-7.34e-06	-6.57e-06	0.0
602	72	-9.03e-05	1.61e-04	-0.03	-7.65e-06	-6.80e-06	0.0
603	2	-1.64e-04	1.03e-03	-0.04	-5.07e-05	-1.17e-05	0.0
603	20	-2.38e-03	2.79e-04	-0.03	-3.02e-05	-5.93e-06	0.0
603	21	5.35e-04	2.99e-03	-0.03	-3.40e-05	-7.80e-06	0.0
603	25	5.46e-04	2.92e-03	-0.03	-3.41e-05	-7.89e-06	0.0
603	52	-3.72e-03	6.90e-05	-0.03	-2.96e-05	-5.00e-06	0.0
603	53	9.13e-04	4.37e-03	-0.03	-3.56e-05	-7.98e-06	0.0
603	57	9.30e-04	4.27e-03	-0.03	-3.57e-05	-8.13e-06	0.0
603	70	-1.23e-04	7.69e-04	-0.03	-3.79e-05	-8.82e-06	0.0
603	72	-1.09e-04	6.62e-04	-0.03	-3.26e-05	-7.76e-06	0.0
604	2	-2.32e-04	1.77e-03	-0.05	-8.78e-05	-1.52e-05	0.0
604	20	-2.45e-03	7.29e-04	-0.04	-5.25e-05	-7.47e-06	0.0
604	21	4.68e-04	3.48e-03	-0.04	-5.84e-05	-1.00e-05	0.0
604	25	4.85e-04	3.41e-03	-0.04	-5.85e-05	-1.02e-05	0.0
604	52	-3.80e-03	5.14e-04	-0.04	-5.16e-05	-6.19e-06	0.0
604	53	8.31e-04	4.88e-03	-0.04	-6.10e-05	-1.03e-05	0.0
604	57	8.58e-04	4.78e-03	-0.04	-6.11e-05	-1.05e-05	0.0
604	70	-1.74e-04	1.32e-03	-0.04	-6.55e-05	-1.14e-05	0.0
604	72	-1.53e-04	1.14e-03	-0.04	-5.64e-05	-1.00e-05	0.0
605	2	-3.41e-04	2.45e-03	-0.05	-1.21e-04	-2.08e-05	0.0
605	20	-2.53e-03	1.13e-03	-0.04	-7.26e-05	-1.01e-05	0.0
605	21	3.71e-04	3.93e-03	-0.04	-8.13e-05	-1.39e-05	0.0
605	25	3.94e-04	3.87e-03	-0.04	-8.14e-05	-1.41e-05	0.0
605	52	-3.90e-03	9.11e-04	-0.04	-7.13e-05	-8.40e-06	0.0
605	53	7.17e-04	5.36e-03	-0.04	-8.52e-05	-1.43e-05	0.0
605	57	7.54e-04	5.26e-03	-0.04	-8.53e-05	-1.47e-05	0.0
605	70	-2.56e-04	1.83e-03	-0.04	-9.06e-05	-1.56e-05	0.0
605	72	-2.23e-04	1.57e-03	-0.04	-7.80e-05	-1.36e-05	0.0
606	2	-4.91e-04	3.00e-03	-0.06	-1.49e-04	-2.86e-05	0.0
606	20	-2.64e-03	1.46e-03	-0.04	-8.90e-05	-1.39e-05	0.0
606	21	2.43e-04	4.32e-03	-0.04	-1.01e-04	-1.93e-05	0.0
606	25	2.73e-04	4.26e-03	-0.04	-1.01e-04	-1.96e-05	0.0
606	52	-4.01e-03	1.24e-03	-0.04	-8.73e-05	-1.16e-05	0.0
606	53	5.68e-04	5.78e-03	-0.05	-1.06e-04	-2.01e-05	0.0
606	57	6.15e-04	5.68e-03	-0.05	-1.06e-04	-2.06e-05	0.0
606	70	-3.68e-04	2.24e-03	-0.05	-1.11e-04	-2.14e-05	0.0
606	72	-3.20e-04	1.93e-03	-0.04	-9.57e-05	-1.86e-05	0.0
607	2	-6.74e-04	3.39e-03	-0.07	-1.68e-04	-3.81e-05	0.0
607	20	-2.76e-03	1.69e-03	-0.05	-1.00e-04	-1.86e-05	0.0
607	21	8.93e-05	4.60e-03	-0.05	-1.15e-04	-2.61e-05	0.0
607	25	1.24e-04	4.53e-03	-0.05	-1.15e-04	-2.65e-05	0.0
607	52	-4.14e-03	1.46e-03	-0.05	-9.82e-05	-1.56e-05	0.0

607	53	3.90e-04	6.08e-03	-0.05	-1.21e-04	-2.75e-05	0.0
607	57	4.46e-04	5.98e-03	-0.05	-1.21e-04	-2.81e-05	0.0
607	70	-5.05e-04	2.53e-03	-0.05	-1.26e-04	-2.85e-05	0.0
607	72	-4.37e-04	2.17e-03	-0.05	-1.08e-04	-2.47e-05	0.0
608	2	-8.75e-04	3.55e-03	-0.08	-1.76e-04	-4.85e-05	0.0
608	20	-2.88e-03	1.78e-03	-0.05	-1.05e-04	-2.36e-05	0.0
608	21	-8.11e-05	4.72e-03	-0.06	-1.21e-04	-3.38e-05	0.0
608	25	-4.08e-05	4.66e-03	-0.06	-1.21e-04	-3.43e-05	0.0
608	52	-4.27e-03	1.55e-03	-0.05	-1.02e-04	-1.98e-05	0.0
608	53	1.92e-04	6.22e-03	-0.06	-1.28e-04	-3.60e-05	0.0
608	57	2.56e-04	6.12e-03	-0.06	-1.28e-04	-3.68e-05	0.0
608	70	-6.55e-04	2.65e-03	-0.06	-1.31e-04	-3.63e-05	0.0
608	72	-5.65e-04	2.27e-03	-0.05	-1.13e-04	-3.13e-05	0.0
609	2	-9.44e-05	-3.40e-03	-0.08	1.71e-04	-8.62e-06	0.0
609	11	-2.39e-03	-1.73e-03	-0.05	1.02e-04	1.60e-06	0.0
609	22	4.82e-04	-4.56e-03	-0.05	1.17e-04	-8.14e-06	0.0
609	24	-8.57e-04	-4.64e-03	-0.05	1.17e-04	-4.37e-06	0.0
609	43	-3.76e-03	-1.52e-03	-0.05	1.01e-04	5.70e-06	0.0
609	54	8.01e-04	-6.02e-03	-0.06	1.24e-04	-9.78e-06	0.0
609	56	-1.33e-03	-6.15e-03	-0.06	1.24e-04	-3.78e-06	0.0
609	70	-7.06e-05	-2.54e-03	-0.06	1.27e-04	-6.45e-06	0.0
609	72	-6.12e-05	-2.18e-03	-0.05	1.09e-04	-5.57e-06	0.0
610	2	-7.31e-05	-3.33e-03	-0.07	1.67e-04	-7.54e-06	0.0
610	11	-2.38e-03	-1.69e-03	-0.05	1.00e-04	1.38e-06	0.0
610	22	5.10e-04	-4.51e-03	-0.05	1.14e-04	-7.09e-06	0.0
610	24	-8.33e-04	-4.59e-03	-0.05	1.14e-04	-3.75e-06	0.0
610	43	-3.75e-03	-1.48e-03	-0.05	9.91e-05	4.98e-06	0.0
610	54	8.38e-04	-5.97e-03	-0.05	1.21e-04	-8.50e-06	0.0
610	56	-1.30e-03	-6.09e-03	-0.05	1.21e-04	-3.18e-06	0.0
610	70	-5.48e-05	-2.49e-03	-0.05	1.25e-04	-5.65e-06	0.0
610	72	-4.78e-05	-2.14e-03	-0.05	1.07e-04	-4.90e-06	0.0
611	2	-3.87e-05	-3.04e-03	-0.06	1.53e-04	-5.83e-06	0.0
611	11	-2.35e-03	-1.52e-03	-0.04	9.20e-05	1.17e-06	0.0
611	22	5.54e-04	-4.30e-03	-0.05	1.03e-04	-5.50e-06	0.0
611	24	-7.93e-04	-4.38e-03	-0.05	1.03e-04	-2.79e-06	0.0
611	43	-3.72e-03	-1.32e-03	-0.04	9.08e-05	4.03e-06	0.0
611	54	8.96e-04	-5.74e-03	-0.05	1.09e-04	-6.57e-06	0.0
611	56	-1.25e-03	-5.86e-03	-0.05	1.09e-04	-2.27e-06	0.0
611	70	-2.91e-05	-2.27e-03	-0.05	1.14e-04	-4.37e-06	0.0
611	72	-2.62e-05	-1.95e-03	-0.05	9.80e-05	-3.82e-06	0.0
612	1	-9.89e-06	-2.06e-03	-0.05	1.04e-04	-3.65e-06	0.0
612	2	-8.94e-06	-2.57e-03	-0.05	1.29e-04	-4.36e-06	0.0
612	11	-2.32e-03	-1.24e-03	-0.04	7.79e-05	0.0	0.0
612	22	5.94e-04	-3.97e-03	-0.04	8.66e-05	-4.13e-06	0.0
612	24	-7.55e-04	-4.04e-03	-0.04	8.65e-05	-2.01e-06	0.0
612	43	-3.68e-03	-1.04e-03	-0.04	7.69e-05	3.14e-06	0.0
612	54	9.50e-04	-5.38e-03	-0.04	9.08e-05	-4.92e-06	0.0
612	56	-1.20e-03	-5.50e-03	-0.04	9.07e-05	-1.55e-06	0.0
612	69	-7.50e-06	-1.58e-03	-0.04	7.94e-05	-2.80e-06	0.0
612	70	-6.87e-06	-1.92e-03	-0.04	9.63e-05	-3.28e-06	0.0
612	71	-7.50e-06	-1.58e-03	-0.04	7.94e-05	-2.80e-06	0.0
612	72	-7.37e-06	-1.65e-03	-0.04	8.28e-05	-2.90e-06	0.0
613	2	1.43e-05	-1.96e-03	-0.05	9.84e-05	-3.22e-06	0.0
613	10	2.30e-03	-1.54e-03	-0.04	6.18e-05	-4.93e-06	0.0
613	22	6.29e-04	-3.55e-03	-0.04	6.56e-05	-2.78e-06	0.0
613	24	-7.21e-04	-3.63e-03	-0.04	6.56e-05	-1.16e-06	0.0
613	42	3.66e-03	-1.74e-03	-0.04	6.25e-05	-6.58e-06	0.0
613	54	9.96e-04	-4.93e-03	-0.04	6.85e-05	-3.18e-06	0.0
613	56	-1.15e-03	-5.05e-03	-0.04	6.85e-05	0.0	0.0
613	70	1.05e-05	-1.46e-03	-0.04	7.35e-05	-2.43e-06	0.0
613	72	7.33e-06	-1.26e-03	-0.04	6.33e-05	-2.18e-06	0.0
614	2	3.02e-05	-1.26e-03	-0.05	6.37e-05	-2.45e-06	0.0
614	10	2.29e-03	-1.11e-03	-0.03	4.00e-05	-3.76e-06	0.0
614	22	6.57e-04	-3.09e-03	-0.03	4.24e-05	-2.20e-06	0.0
614	24	-6.91e-04	-3.16e-03	-0.03	4.24e-05	0.0	0.0
614	42	3.64e-03	-1.30e-03	-0.03	4.05e-05	-5.01e-06	0.0
614	54	1.04e-03	-4.45e-03	-0.03	4.43e-05	-2.53e-06	0.0
614	56	-1.11e-03	-4.57e-03	-0.03	4.43e-05	0.0	0.0
614	70	2.24e-05	-9.43e-04	-0.03	4.75e-05	-1.85e-06	0.0
614	72	1.74e-05	-8.12e-04	-0.03	4.09e-05	-1.69e-06	0.0
615	1	2.78e-05	-4.18e-04	-0.04	2.13e-05	-1.82e-06	0.0
615	2	3.88e-05	-5.19e-04	-0.04	2.65e-05	-2.04e-06	0.0
615	10	2.27e-03	-6.45e-04	-0.03	1.69e-05	-3.08e-06	0.0
615	22	6.80e-04	-2.61e-03	-0.03	1.85e-05	-1.88e-06	0.0
615	24	-6.64e-04	-2.68e-03	-0.03	1.85e-05	0.0	0.0
615	42	3.60e-03	-8.37e-04	-0.03	1.72e-05	-4.07e-06	0.0

615	54	1.07e-03	-3.96e-03	-0.03	1.97e-05	-2.16e-06	0.0
615	56	-1.07e-03	-4.08e-03	-0.03	1.97e-05	0.0	0.0
615	69	2.14e-05	-3.20e-04	-0.03	1.64e-05	-1.40e-06	0.0
615	70	2.88e-05	-3.87e-04	-0.03	1.98e-05	-1.54e-06	0.0
615	71	2.14e-05	-3.20e-04	-0.03	1.64e-05	-1.40e-06	0.0
615	72	2.29e-05	-3.33e-04	-0.03	1.70e-05	-1.43e-06	0.0
616	1	2.90e-05	1.96e-04	-0.04	-9.32e-06	-1.77e-06	0.0
616	2	4.04e-05	2.44e-04	-0.04	-1.16e-05	-1.98e-06	0.0
616	13	2.26e-03	7.24e-04	-0.03	-7.74e-06	-2.95e-06	0.0
616	17	2.27e-03	4.76e-04	-0.03	-7.66e-06	-2.95e-06	0.0
616	21	6.85e-04	2.51e-03	-0.03	-9.09e-06	-1.83e-06	0.0
616	45	3.58e-03	1.06e-03	-0.03	-8.09e-06	-3.89e-06	0.0
616	49	3.59e-03	6.68e-04	-0.03	-7.97e-06	-3.89e-06	0.0
616	53	1.08e-03	3.90e-03	-0.03	-1.02e-05	-2.11e-06	0.0
616	69	2.24e-05	1.51e-04	-0.03	-7.14e-06	-1.36e-06	0.0
616	70	3.00e-05	1.82e-04	-0.03	-8.64e-06	-1.50e-06	0.0
616	71	2.24e-05	1.51e-04	-0.03	-7.14e-06	-1.36e-06	0.0
616	72	2.39e-05	1.57e-04	-0.03	-7.44e-06	-1.39e-06	0.0
617	2	3.51e-05	9.98e-04	-0.04	-4.92e-05	-2.26e-06	0.0
617	17	2.29e-03	9.43e-04	-0.03	-3.10e-05	-3.47e-06	0.0
617	25	6.68e-04	2.92e-03	-0.03	-3.30e-05	-2.17e-06	0.0
617	27	-6.81e-04	2.99e-03	-0.03	-3.30e-05	-1.02e-06	0.0
617	49	3.63e-03	1.14e-03	-0.03	-3.14e-05	-4.62e-06	0.0
617	57	1.05e-03	4.27e-03	-0.03	-3.46e-05	-2.54e-06	0.0
617	59	-1.09e-03	4.39e-03	-0.03	-3.46e-05	0.0	0.0
617	70	2.60e-05	7.46e-04	-0.03	-3.68e-05	-1.71e-06	0.0
617	72	2.05e-05	6.42e-04	-0.03	-3.17e-05	-1.57e-06	0.0
618	2	2.26e-05	1.72e-03	-0.05	-8.51e-05	-2.90e-06	0.0
618	17	2.30e-03	1.39e-03	-0.04	-5.34e-05	-4.45e-06	0.0
618	25	6.42e-04	3.39e-03	-0.04	-5.66e-05	-2.78e-06	0.0
618	27	-7.10e-04	3.46e-03	-0.04	-5.66e-05	-1.31e-06	0.0
618	49	3.66e-03	1.59e-03	-0.04	-5.40e-05	-5.95e-06	0.0
618	57	1.01e-03	4.76e-03	-0.04	-5.91e-05	-3.29e-06	0.0
618	59	-1.14e-03	4.88e-03	-0.04	-5.90e-05	0.0	0.0
618	70	1.67e-05	1.28e-03	-0.04	-6.35e-05	-2.18e-06	0.0
618	72	1.26e-05	1.10e-03	-0.04	-5.47e-05	-1.97e-06	0.0
619	2	2.71e-06	2.36e-03	-0.05	-1.17e-04	-3.89e-06	0.0
619	4	3.08e-06	1.91e-03	-0.04	-9.49e-05	-3.12e-06	0.0
619	20	-2.31e-03	1.12e-03	-0.04	-7.10e-05	0.0	0.0
619	25	6.10e-04	3.82e-03	-0.04	-7.86e-05	-3.72e-06	0.0
619	27	-7.42e-04	3.90e-03	-0.04	-7.85e-05	-1.80e-06	0.0
619	52	-3.67e-03	9.15e-04	-0.04	-7.01e-05	2.83e-06	0.0
619	57	9.71e-04	5.22e-03	-0.04	-8.22e-05	-4.42e-06	0.0
619	59	-1.18e-03	5.34e-03	-0.04	-8.22e-05	-1.37e-06	0.0
619	70	1.83e-06	1.76e-03	-0.04	-8.76e-05	-2.92e-06	0.0
619	71	0.0	1.46e-03	-0.04	-7.23e-05	-2.51e-06	0.0
619	72	0.0	1.52e-03	-0.04	-7.54e-05	-2.60e-06	0.0
620	2	-2.41e-05	2.89e-03	-0.06	-1.44e-04	-5.21e-06	0.0
620	20	-2.34e-03	1.43e-03	-0.04	-8.68e-05	1.07e-06	0.0
620	25	5.72e-04	4.19e-03	-0.04	-9.71e-05	-4.95e-06	0.0
620	27	-7.78e-04	4.27e-03	-0.04	-9.71e-05	-2.49e-06	0.0
620	52	-3.71e-03	1.23e-03	-0.04	-8.57e-05	3.65e-06	0.0
620	57	9.20e-04	5.62e-03	-0.04	-1.02e-04	-5.91e-06	0.0
620	59	-1.23e-03	5.74e-03	-0.04	-1.02e-04	-2.01e-06	0.0
620	70	-1.81e-05	2.16e-03	-0.05	-1.07e-04	-3.91e-06	0.0
620	72	-1.69e-05	1.86e-03	-0.04	-9.24e-05	-3.43e-06	0.0
621	2	-5.62e-05	3.26e-03	-0.07	-1.62e-04	-6.79e-06	0.0
621	20	-2.37e-03	1.65e-03	-0.05	-9.75e-05	1.24e-06	0.0
621	25	5.30e-04	4.46e-03	-0.05	-1.10e-04	-6.41e-06	0.0
621	27	-8.17e-04	4.53e-03	-0.05	-1.10e-04	-3.38e-06	0.0
621	52	-3.74e-03	1.44e-03	-0.05	-9.62e-05	4.49e-06	0.0
621	57	8.64e-04	5.90e-03	-0.05	-1.16e-04	-7.68e-06	0.0
621	59	-1.28e-03	6.02e-03	-0.05	-1.16e-04	-2.85e-06	0.0
621	70	-4.21e-05	2.43e-03	-0.05	-1.21e-04	-5.09e-06	0.0
621	72	-3.71e-05	2.09e-03	-0.05	-1.04e-04	-4.43e-06	0.0
622	2	-9.09e-05	3.41e-03	-0.08	-1.70e-04	-8.52e-06	0.0
622	20	-2.39e-03	1.74e-03	-0.05	-1.02e-04	1.49e-06	0.0
622	25	4.84e-04	4.57e-03	-0.05	-1.16e-04	-8.07e-06	0.0
622	27	-8.57e-04	4.64e-03	-0.05	-1.16e-04	-4.39e-06	0.0
622	52	-3.77e-03	1.53e-03	-0.05	-1.00e-04	5.49e-06	0.0
622	57	8.04e-04	6.03e-03	-0.06	-1.23e-04	-9.69e-06	0.0
622	59	-1.33e-03	6.15e-03	-0.06	-1.23e-04	-3.84e-06	0.0
622	70	-6.80e-05	2.54e-03	-0.06	-1.27e-04	-6.38e-06	0.0
622	72	-5.89e-05	2.18e-03	-0.05	-1.09e-04	-5.52e-06	0.0
623	2	7.10e-04	-3.46e-03	-0.08	1.73e-04	3.24e-05	0.0
623	10	2.78e-03	-2.45e-03	-0.05	1.08e-04	1.44e-05	0.0

623	24	-3.20e-04	-4.71e-03	-0.06	1.19e-04	2.37e-05	0.0
623	42	4.16e-03	-2.63e-03	-0.05	1.09e-04	1.11e-05	0.0
623	56	-7.67e-04	-6.24e-03	-0.06	1.26e-04	2.58e-05	0.0
623	70	5.32e-04	-2.58e-03	-0.06	1.29e-04	2.43e-05	0.0
623	72	4.59e-04	-2.22e-03	-0.05	1.11e-04	2.09e-05	0.0
624	2	6.32e-04	-3.39e-03	-0.07	1.70e-04	2.82e-05	0.0
624	10	2.73e-03	-2.40e-03	-0.05	1.06e-04	1.24e-05	0.0
624	24	-3.68e-04	-4.66e-03	-0.05	1.16e-04	2.04e-05	0.0
624	42	4.10e-03	-2.59e-03	-0.05	1.07e-04	9.41e-06	0.0
624	56	-8.14e-04	-6.18e-03	-0.05	1.23e-04	2.20e-05	0.0
624	70	4.73e-04	-2.53e-03	-0.05	1.27e-04	2.11e-05	0.0
624	72	4.08e-04	-2.17e-03	-0.05	1.09e-04	1.82e-05	0.0
625	2	5.05e-04	-3.09e-03	-0.06	1.55e-04	2.14e-05	0.0
625	10	2.64e-03	-2.22e-03	-0.05	9.64e-05	8.44e-06	0.0
625	24	-4.40e-04	-4.44e-03	-0.05	1.05e-04	1.53e-05	0.0
625	42	4.01e-03	-2.40e-03	-0.05	9.70e-05	5.57e-06	0.0
625	56	-8.83e-04	-5.94e-03	-0.05	1.11e-04	1.64e-05	0.0
625	70	3.79e-04	-2.31e-03	-0.05	1.16e-04	1.60e-05	0.0
625	72	3.27e-04	-1.99e-03	-0.05	9.96e-05	1.38e-05	0.0
626	2	3.98e-04	-2.61e-03	-0.06	1.31e-04	1.57e-05	0.0
626	10	2.56e-03	-1.91e-03	-0.04	8.12e-05	6.02e-06	0.0
626	24	-4.96e-04	-4.10e-03	-0.04	8.81e-05	1.11e-05	0.0
626	42	3.93e-03	-2.09e-03	-0.04	8.16e-05	3.82e-06	0.0
626	56	-9.34e-04	-5.57e-03	-0.04	9.25e-05	1.20e-05	0.0
626	70	2.98e-04	-1.95e-03	-0.04	9.77e-05	1.18e-05	0.0
626	72	2.57e-04	-1.67e-03	-0.04	8.40e-05	1.02e-05	0.0
627	2	3.16e-04	-1.99e-03	-0.05	9.98e-05	1.15e-05	0.0
627	10	2.49e-03	-1.53e-03	-0.04	6.19e-05	4.26e-06	0.0
627	24	-5.32e-04	-3.67e-03	-0.04	6.67e-05	7.67e-06	0.0
627	42	3.85e-03	-1.70e-03	-0.04	6.21e-05	2.60e-06	0.0
627	56	-9.61e-04	-5.11e-03	-0.04	6.97e-05	8.01e-06	0.0
627	70	2.36e-04	-1.48e-03	-0.04	7.45e-05	8.57e-06	0.0
627	72	2.03e-04	-1.28e-03	-0.04	6.41e-05	7.38e-06	0.0
628	2	2.60e-04	-1.28e-03	-0.05	6.45e-05	8.59e-06	0.0
628	10	2.44e-03	-1.09e-03	-0.03	4.00e-05	3.15e-06	0.0
628	24	-5.48e-04	-3.20e-03	-0.03	4.31e-05	5.75e-06	0.0
628	42	3.78e-03	-1.26e-03	-0.03	4.01e-05	1.88e-06	0.0
628	56	-9.65e-04	-4.62e-03	-0.03	4.50e-05	6.03e-06	0.0
628	70	1.95e-04	-9.57e-04	-0.03	4.81e-05	6.43e-06	0.0
628	72	1.67e-04	-8.23e-04	-0.03	4.15e-05	5.51e-06	0.0
629	1	1.84e-04	-4.24e-04	-0.04	2.16e-05	5.63e-06	0.0
629	2	2.31e-04	-5.26e-04	-0.04	2.68e-05	7.07e-06	0.0
629	10	2.40e-03	-6.22e-04	-0.03	1.68e-05	2.62e-06	0.0
629	24	-5.45e-04	-2.71e-03	-0.03	1.87e-05	4.77e-06	0.0
629	42	3.73e-03	-7.98e-04	-0.03	1.69e-05	1.61e-06	0.0
629	56	-9.49e-04	-4.12e-03	-0.03	2.00e-05	5.04e-06	0.0
629	69	1.42e-04	-3.25e-04	-0.03	1.66e-05	4.33e-06	0.0
629	70	1.73e-04	-3.93e-04	-0.03	2.00e-05	5.28e-06	0.0
629	71	1.42e-04	-3.25e-04	-0.03	1.66e-05	4.33e-06	0.0
629	72	1.48e-04	-3.38e-04	-0.03	1.73e-05	4.52e-06	0.0
630	1	1.80e-04	1.99e-04	-0.04	-9.42e-06	5.41e-06	0.0
630	2	2.26e-04	2.47e-04	-0.04	-1.17e-05	6.79e-06	0.0
630	15	-2.11e-03	9.96e-04	-0.03	-8.00e-06	5.75e-06	0.0
630	17	2.39e-03	4.52e-04	-0.03	-7.50e-06	2.54e-06	0.0
630	27	-5.41e-04	2.54e-03	-0.03	-9.18e-06	4.58e-06	0.0
630	47	-3.43e-03	1.49e-03	-0.03	-8.47e-06	6.69e-06	0.0
630	49	3.71e-03	6.28e-04	-0.03	-7.66e-06	1.58e-06	0.0
630	59	-9.41e-04	3.94e-03	-0.03	-1.03e-05	4.84e-06	0.0
630	69	1.39e-04	1.52e-04	-0.03	-7.21e-06	4.16e-06	0.0
630	70	1.69e-04	1.84e-04	-0.03	-8.73e-06	5.08e-06	0.0
630	71	1.39e-04	1.52e-04	-0.03	-7.21e-06	4.16e-06	0.0
630	72	1.45e-04	1.59e-04	-0.03	-7.52e-06	4.34e-06	0.0
631	2	2.45e-04	1.01e-03	-0.04	-4.98e-05	7.76e-06	0.0
631	17	2.42e-03	9.23e-04	-0.03	-3.09e-05	2.80e-06	0.0
631	27	-5.51e-04	3.02e-03	-0.03	-3.35e-05	5.18e-06	0.0
631	49	3.77e-03	1.10e-03	-0.03	-3.11e-05	1.64e-06	0.0
631	59	-9.65e-04	4.44e-03	-0.03	-3.51e-05	5.42e-06	0.0
631	70	1.83e-04	7.55e-04	-0.03	-3.72e-05	5.81e-06	0.0
631	72	1.57e-04	6.50e-04	-0.03	-3.20e-05	4.97e-06	0.0
632	2	2.90e-04	1.74e-03	-0.05	-8.62e-05	1.00e-05	0.0
632	17	2.47e-03	1.37e-03	-0.04	-5.34e-05	3.66e-06	0.0
632	27	-5.43e-04	3.50e-03	-0.04	-5.75e-05	6.70e-06	0.0
632	49	3.83e-03	1.55e-03	-0.04	-5.36e-05	2.15e-06	0.0
632	59	-9.69e-04	4.93e-03	-0.04	-6.00e-05	6.99e-06	0.0
632	70	2.17e-04	1.30e-03	-0.04	-6.44e-05	7.52e-06	0.0
632	72	1.86e-04	1.12e-03	-0.04	-5.54e-05	6.47e-06	0.0

633	2	3.61e-04	2.40e-03	-0.05	-1.19e-04	1.38e-05	0.0
633	17	2.54e-03	1.78e-03	-0.04	-7.39e-05	5.17e-06	0.0
633	27	-5.15e-04	3.95e-03	-0.04	-7.99e-05	9.81e-06	0.0
633	49	3.90e-03	1.96e-03	-0.04	-7.42e-05	3.19e-06	0.0
633	59	-9.51e-04	5.41e-03	-0.04	-8.37e-05	1.06e-05	0.0
633	70	2.71e-04	1.79e-03	-0.04	-8.89e-05	1.03e-05	0.0
633	72	2.33e-04	1.54e-03	-0.04	-7.65e-05	8.89e-06	0.0
634	2	4.60e-04	2.94e-03	-0.06	-1.46e-04	1.90e-05	0.0
634	17	2.61e-03	2.12e-03	-0.04	-9.09e-05	7.39e-06	0.0
634	27	-4.67e-04	4.33e-03	-0.04	-9.89e-05	1.35e-05	0.0
634	49	3.98e-03	2.31e-03	-0.04	-9.14e-05	4.81e-06	0.0
634	59	-9.09e-04	5.81e-03	-0.04	-1.04e-04	1.45e-05	0.0
634	70	3.44e-04	2.20e-03	-0.05	-1.09e-04	1.42e-05	0.0
634	72	2.97e-04	1.89e-03	-0.04	-9.38e-05	1.23e-05	0.0
635	2	5.80e-04	3.32e-03	-0.07	-1.65e-04	2.54e-05	0.0
635	17	2.70e-03	2.36e-03	-0.05	-1.03e-04	1.11e-05	0.0
635	27	-4.00e-04	4.60e-03	-0.05	-1.12e-04	1.82e-05	0.0
635	49	4.07e-03	2.54e-03	-0.05	-1.03e-04	8.35e-06	0.0
635	59	-8.46e-04	6.11e-03	-0.05	-1.19e-04	1.97e-05	0.0
635	70	4.35e-04	2.48e-03	-0.05	-1.23e-04	1.90e-05	0.0
635	72	3.75e-04	2.13e-03	-0.05	-1.06e-04	1.64e-05	0.0
636	2	7.12e-04	3.47e-03	-0.08	-1.72e-04	3.24e-05	0.0
636	17	2.78e-03	2.45e-03	-0.05	-1.07e-04	1.46e-05	0.0
636	27	-3.21e-04	4.72e-03	-0.06	-1.18e-04	2.36e-05	0.0
636	49	4.16e-03	2.64e-03	-0.05	-1.08e-04	1.13e-05	0.0
636	59	-7.69e-04	6.24e-03	-0.06	-1.25e-04	2.57e-05	0.0
636	70	5.33e-04	2.59e-03	-0.06	-1.29e-04	2.43e-05	0.0
636	72	4.60e-04	2.22e-03	-0.05	-1.11e-04	2.09e-05	0.0
637	2	1.45e-03	-3.72e-03	-0.08	1.86e-04	7.00e-05	0.0
637	10	3.25e-03	-2.57e-03	-0.05	1.15e-04	3.85e-05	0.0
637	24	1.60e-04	-4.93e-03	-0.06	1.28e-04	4.86e-05	0.0
637	42	4.64e-03	-2.74e-03	-0.05	1.15e-04	3.56e-05	0.0
637	56	-2.71e-04	-6.49e-03	-0.06	1.36e-04	5.16e-05	0.0
637	70	1.08e-03	-2.78e-03	-0.06	1.39e-04	5.24e-05	0.0
637	72	9.34e-04	-2.39e-03	-0.06	1.19e-04	4.52e-05	0.0
638	2	1.27e-03	-3.64e-03	-0.07	1.82e-04	6.06e-05	0.0
638	10	3.14e-03	-2.52e-03	-0.05	1.12e-04	3.32e-05	0.0
638	24	4.64e-05	-4.86e-03	-0.05	1.25e-04	4.15e-05	0.0
638	42	4.53e-03	-2.69e-03	-0.05	1.12e-04	3.06e-05	0.0
638	56	-3.89e-04	-6.41e-03	-0.05	1.33e-04	4.38e-05	0.0
638	70	9.51e-04	-2.72e-03	-0.06	1.36e-04	4.54e-05	0.0
638	72	8.21e-04	-2.33e-03	-0.05	1.16e-04	3.92e-05	0.0
639	2	9.90e-04	-3.31e-03	-0.06	1.65e-04	4.57e-05	0.0
639	10	2.96e-03	-2.32e-03	-0.05	1.02e-04	2.47e-05	0.0
639	24	-1.31e-04	-4.62e-03	-0.05	1.13e-04	3.07e-05	0.0
639	42	4.34e-03	-2.48e-03	-0.05	1.02e-04	2.25e-05	0.0
639	56	-5.71e-04	-6.14e-03	-0.05	1.19e-04	3.20e-05	0.0
639	70	7.41e-04	-2.47e-03	-0.05	1.23e-04	3.42e-05	0.0
639	72	6.41e-04	-2.13e-03	-0.05	1.06e-04	2.96e-05	0.0
640	2	7.53e-04	-2.78e-03	-0.06	1.39e-04	3.33e-05	0.0
640	10	2.80e-03	-1.99e-03	-0.04	8.54e-05	1.74e-05	0.0
640	24	-2.74e-04	-4.24e-03	-0.04	9.37e-05	2.21e-05	0.0
640	42	4.17e-03	-2.14e-03	-0.04	8.52e-05	1.55e-05	0.0
640	56	-7.12e-04	-5.73e-03	-0.04	9.85e-05	2.28e-05	0.0
640	70	5.65e-04	-2.08e-03	-0.04	1.04e-04	2.49e-05	0.0
640	72	4.88e-04	-1.79e-03	-0.04	8.92e-05	2.16e-05	0.0
641	2	5.75e-04	-2.11e-03	-0.05	1.05e-04	2.41e-05	0.0
641	10	2.67e-03	-1.57e-03	-0.04	6.47e-05	1.25e-05	0.0
641	24	-3.72e-04	-3.78e-03	-0.04	7.05e-05	1.54e-05	0.0
641	42	4.03e-03	-1.73e-03	-0.04	6.45e-05	1.11e-05	0.0
641	56	-8.03e-04	-5.23e-03	-0.04	7.37e-05	1.56e-05	0.0
641	70	4.31e-04	-1.58e-03	-0.04	7.87e-05	1.80e-05	0.0
641	72	3.72e-04	-1.36e-03	-0.04	6.78e-05	1.56e-05	0.0
642	2	4.57e-04	-1.36e-03	-0.05	6.79e-05	1.80e-05	0.0
642	10	2.57e-03	-1.10e-03	-0.03	4.17e-05	9.34e-06	0.0
642	24	-4.27e-04	-3.27e-03	-0.04	4.53e-05	1.15e-05	0.0
642	42	3.92e-03	-1.26e-03	-0.03	4.15e-05	8.24e-06	0.0
642	56	-8.47e-04	-4.70e-03	-0.04	4.73e-05	1.17e-05	0.0
642	70	3.42e-04	-1.01e-03	-0.04	5.07e-05	1.35e-05	0.0
642	72	2.95e-04	-8.71e-04	-0.04	4.37e-05	1.17e-05	0.0
643	2	3.94e-04	-5.56e-04	-0.04	2.82e-05	1.48e-05	0.0
643	8	-2.01e-03	-1.22e-03	-0.03	1.86e-05	1.06e-05	0.0
643	10	2.50e-03	-6.14e-04	-0.03	1.74e-05	7.70e-06	0.0
643	24	-4.44e-04	-2.75e-03	-0.03	1.96e-05	9.54e-06	0.0
643	40	-3.34e-03	-1.73e-03	-0.03	1.93e-05	1.15e-05	0.0
643	42	3.84e-03	-7.74e-04	-0.03	1.74e-05	6.82e-06	0.0

643	56	-8.50e-04	-4.17e-03	-0.03	2.08e-05	9.74e-06	0.0
643	70	2.95e-04	-4.15e-04	-0.03	2.11e-05	1.11e-05	0.0
643	72	2.54e-04	-3.58e-04	-0.03	1.82e-05	9.58e-06	0.0
644	1	3.09e-04	2.08e-04	-0.04	-9.86e-06	1.15e-05	0.0
644	2	3.83e-04	2.58e-04	-0.04	-1.22e-05	1.42e-05	0.0
644	15	-2.01e-03	1.03e-03	-0.03	-8.51e-06	1.02e-05	0.0
644	17	2.49e-03	4.34e-04	-0.03	-7.62e-06	7.42e-06	0.0
644	27	-4.44e-04	2.56e-03	-0.03	-9.46e-06	9.18e-06	0.0
644	47	-3.34e-03	1.54e-03	-0.03	-9.07e-06	1.11e-05	0.0
644	49	3.82e-03	5.95e-04	-0.03	-7.66e-06	6.58e-06	0.0
644	59	-8.46e-04	3.98e-03	-0.03	-1.06e-05	9.39e-06	0.0
644	69	2.37e-04	1.60e-04	-0.03	-7.55e-06	8.85e-06	0.0
644	70	2.87e-04	1.93e-04	-0.03	-9.13e-06	1.07e-05	0.0
644	71	2.37e-04	1.60e-04	-0.03	-7.55e-06	8.85e-06	0.0
644	72	2.47e-04	1.66e-04	-0.03	-7.87e-06	9.21e-06	0.0
645	2	4.24e-04	1.07e-03	-0.04	-5.23e-05	1.63e-05	0.0
645	15	-2.00e-03	1.54e-03	-0.03	-3.39e-05	1.17e-05	0.0
645	17	2.54e-03	9.29e-04	-0.03	-3.21e-05	8.41e-06	0.0
645	27	-4.42e-04	3.08e-03	-0.03	-3.51e-05	1.04e-05	0.0
645	47	-3.34e-03	2.05e-03	-0.03	-3.49e-05	1.26e-05	0.0
645	49	3.89e-03	1.09e-03	-0.03	-3.20e-05	7.40e-06	0.0
645	59	-8.57e-04	4.51e-03	-0.03	-3.67e-05	1.05e-05	0.0
645	70	3.17e-04	7.97e-04	-0.03	-3.91e-05	1.22e-05	0.0
645	72	2.74e-04	6.86e-04	-0.03	-3.37e-05	1.05e-05	0.0
646	2	5.18e-04	1.84e-03	-0.05	-9.09e-05	2.11e-05	0.0
646	17	2.63e-03	1.41e-03	-0.04	-5.58e-05	1.09e-05	0.0
646	27	-4.03e-04	3.59e-03	-0.04	-6.07e-05	1.34e-05	0.0
646	49	3.99e-03	1.57e-03	-0.04	-5.56e-05	9.62e-06	0.0
646	59	-8.31e-04	5.04e-03	-0.04	-6.33e-05	1.36e-05	0.0
646	70	3.88e-04	1.38e-03	-0.04	-6.79e-05	1.58e-05	0.0
646	72	3.35e-04	1.18e-03	-0.04	-5.85e-05	1.37e-05	0.0
647	2	6.72e-04	2.55e-03	-0.05	-1.26e-04	2.90e-05	0.0
647	17	2.74e-03	1.85e-03	-0.04	-7.76e-05	1.51e-05	0.0
647	27	-3.23e-04	4.08e-03	-0.04	-8.48e-05	1.93e-05	0.0
647	49	4.11e-03	2.01e-03	-0.04	-7.74e-05	1.34e-05	0.0
647	59	-7.60e-04	5.55e-03	-0.04	-8.90e-05	2.00e-05	0.0
647	70	5.03e-04	1.91e-03	-0.04	-9.42e-05	2.17e-05	0.0
647	72	4.35e-04	1.64e-03	-0.04	-8.11e-05	1.88e-05	0.0
648	2	8.86e-04	3.14e-03	-0.06	-1.56e-04	4.02e-05	0.0
648	17	2.89e-03	2.21e-03	-0.04	-9.59e-05	2.17e-05	0.0
648	27	-1.98e-04	4.49e-03	-0.05	-1.06e-04	2.69e-05	0.0
648	49	4.27e-03	2.38e-03	-0.04	-9.59e-05	1.96e-05	0.0
648	59	-6.38e-04	6.00e-03	-0.05	-1.11e-04	2.80e-05	0.0
648	70	6.64e-04	2.35e-03	-0.05	-1.16e-04	3.02e-05	0.0
648	72	5.74e-04	2.02e-03	-0.04	-9.99e-05	2.61e-05	0.0
649	2	1.15e-03	3.55e-03	-0.07	-1.76e-04	5.43e-05	0.0
649	17	3.07e-03	2.47e-03	-0.05	-1.09e-04	2.97e-05	0.0
649	27	-3.15e-05	4.79e-03	-0.05	-1.21e-04	3.69e-05	0.0
649	49	4.46e-03	2.64e-03	-0.05	-1.09e-04	2.72e-05	0.0
649	59	-4.70e-04	6.33e-03	-0.05	-1.28e-04	3.87e-05	0.0
649	70	8.63e-04	2.65e-03	-0.05	-1.31e-04	4.07e-05	0.0
649	72	7.45e-04	2.28e-03	-0.05	-1.13e-04	3.51e-05	0.0
650	2	1.45e-03	3.73e-03	-0.08	-1.84e-04	6.99e-05	0.0
650	17	3.26e-03	2.58e-03	-0.05	-1.14e-04	3.86e-05	0.0
650	27	1.58e-04	4.93e-03	-0.06	-1.27e-04	4.84e-05	0.0
650	49	4.65e-03	2.75e-03	-0.05	-1.14e-04	3.58e-05	0.0
650	59	-2.74e-04	6.49e-03	-0.06	-1.35e-04	5.14e-05	0.0
650	70	1.08e-03	2.78e-03	-0.06	-1.38e-04	5.23e-05	0.0
650	72	9.34e-04	2.39e-03	-0.06	-1.18e-04	4.51e-05	0.0
651	2	2.00e-03	-4.17e-03	-0.08	2.06e-04	9.88e-05	0.0
651	10	3.64e-03	-2.82e-03	-0.06	1.27e-04	5.79e-05	0.0
651	24	5.06e-04	-5.29e-03	-0.06	1.44e-04	6.75e-05	0.0
651	42	5.05e-03	-2.97e-03	-0.06	1.27e-04	5.60e-05	0.0
651	56	7.51e-05	-6.89e-03	-0.06	1.53e-04	7.12e-05	0.0
651	70	1.50e-03	-3.12e-03	-0.06	1.54e-04	7.40e-05	0.0
651	72	1.30e-03	-2.67e-03	-0.06	1.32e-04	6.38e-05	0.0
652	2	1.74e-03	-4.07e-03	-0.08	2.02e-04	8.48e-05	0.0
652	10	3.47e-03	-2.76e-03	-0.05	1.24e-04	4.96e-05	0.0
652	24	3.41e-04	-5.20e-03	-0.06	1.40e-04	5.69e-05	0.0
652	42	4.88e-03	-2.91e-03	-0.05	1.24e-04	4.77e-05	0.0
652	56	-9.38e-05	-6.80e-03	-0.06	1.49e-04	5.94e-05	0.0
652	70	1.31e-03	-3.04e-03	-0.06	1.51e-04	6.35e-05	0.0
652	72	1.13e-03	-2.61e-03	-0.05	1.29e-04	5.49e-05	0.0
653	2	1.33e-03	-3.68e-03	-0.07	1.82e-04	6.26e-05	0.0
653	10	3.20e-03	-2.51e-03	-0.05	1.12e-04	3.64e-05	0.0
653	24	7.54e-05	-4.90e-03	-0.05	1.25e-04	4.10e-05	0.0

653	42	4.59e-03	-2.66e-03	-0.05	1.11e-04	3.48e-05	0.0
653	56	-3.67e-04	-6.46e-03	-0.05	1.32e-04	4.22e-05	0.0
653	70	9.96e-04	-2.75e-03	-0.05	1.36e-04	4.69e-05	0.0
653	72	8.62e-04	-2.36e-03	-0.05	1.17e-04	4.06e-05	0.0
654	2	9.89e-04	-3.07e-03	-0.06	1.52e-04	4.48e-05	0.0
654	10	2.97e-03	-2.13e-03	-0.04	9.29e-05	2.56e-05	0.0
654	24	-1.34e-04	-4.46e-03	-0.04	1.03e-04	2.91e-05	0.0
654	42	4.35e-03	-2.27e-03	-0.04	9.24e-05	2.42e-05	0.0
654	56	-5.76e-04	-5.97e-03	-0.04	1.08e-04	2.97e-05	0.0
654	70	7.41e-04	-2.29e-03	-0.04	1.14e-04	3.36e-05	0.0
654	72	6.42e-04	-1.97e-03	-0.04	9.77e-05	2.91e-05	0.0
655	2	7.41e-04	-2.31e-03	-0.05	1.15e-04	3.20e-05	0.0
655	10	2.79e-03	-1.66e-03	-0.04	6.99e-05	1.83e-05	0.0
655	24	-2.74e-04	-3.93e-03	-0.04	7.64e-05	2.01e-05	0.0
655	42	4.16e-03	-1.80e-03	-0.04	6.94e-05	1.73e-05	0.0
655	56	-7.08e-04	-5.40e-03	-0.04	7.98e-05	2.01e-05	0.0
655	70	5.55e-04	-1.72e-03	-0.04	8.56e-05	2.40e-05	0.0
655	72	4.81e-04	-1.48e-03	-0.04	7.37e-05	2.08e-05	0.0
656	2	5.80e-04	-1.47e-03	-0.05	7.33e-05	2.39e-05	0.0
656	8	-1.92e-03	-1.82e-03	-0.04	4.76e-05	1.61e-05	0.0
656	10	2.66e-03	-1.15e-03	-0.04	4.47e-05	1.35e-05	0.0
656	24	-3.54e-04	-3.36e-03	-0.04	4.87e-05	1.49e-05	0.0
656	40	-3.26e-03	-2.36e-03	-0.04	4.89e-05	1.68e-05	0.0
656	42	4.02e-03	-1.29e-03	-0.04	4.44e-05	1.28e-05	0.0
656	56	-7.75e-04	-4.81e-03	-0.04	5.07e-05	1.50e-05	0.0
656	70	4.35e-04	-1.10e-03	-0.04	5.48e-05	1.79e-05	0.0
656	72	3.76e-04	-9.48e-04	-0.04	4.72e-05	1.55e-05	0.0
657	2	4.96e-04	-6.04e-04	-0.04	3.04e-05	1.96e-05	0.0
657	10	2.58e-03	-6.18e-04	-0.03	1.86e-05	1.11e-05	0.0
657	12	-1.94e-03	-9.89e-04	-0.03	2.01e-05	1.33e-05	0.0
657	24	-3.83e-04	-2.80e-03	-0.03	2.08e-05	1.24e-05	0.0
657	42	3.92e-03	-7.62e-04	-0.03	1.84e-05	1.04e-05	0.0
657	44	-3.26e-03	-1.35e-03	-0.03	2.08e-05	1.39e-05	0.0
657	56	-7.91e-04	-4.23e-03	-0.03	2.20e-05	1.25e-05	0.0
657	70	3.72e-04	-4.51e-04	-0.03	2.27e-05	1.47e-05	0.0
657	72	3.21e-04	-3.89e-04	-0.03	1.96e-05	1.27e-05	0.0
658	2	4.82e-04	2.77e-04	-0.04	-1.31e-05	1.89e-05	0.0
658	15	-1.96e-03	1.06e-03	-0.03	-9.13e-06	1.28e-05	0.0
658	17	2.56e-03	4.21e-04	-0.03	-7.99e-06	1.07e-05	0.0
658	27	-3.85e-04	2.59e-03	-0.03	-9.87e-06	1.20e-05	0.0
658	47	-3.29e-03	1.59e-03	-0.03	-9.74e-06	1.34e-05	0.0
658	49	3.90e-03	5.68e-04	-0.03	-7.93e-06	1.00e-05	0.0
658	59	-7.88e-04	4.02e-03	-0.03	-1.09e-05	1.21e-05	0.0
658	70	3.61e-04	2.07e-04	-0.03	-9.77e-06	1.41e-05	0.0
658	72	3.12e-04	1.78e-04	-0.03	-8.43e-06	1.22e-05	0.0
659	2	5.35e-04	1.15e-03	-0.05	-5.63e-05	2.15e-05	0.0
659	15	-1.94e-03	1.62e-03	-0.04	-3.67e-05	1.45e-05	0.0
659	17	2.63e-03	9.57e-04	-0.03	-3.43e-05	1.22e-05	0.0
659	27	-3.75e-04	3.15e-03	-0.04	-3.76e-05	1.35e-05	0.0
659	47	-3.29e-03	2.15e-03	-0.04	-3.78e-05	1.52e-05	0.0
659	49	3.98e-03	1.10e-03	-0.03	-3.40e-05	1.14e-05	0.0
659	59	-7.93e-04	4.59e-03	-0.04	-3.91e-05	1.35e-05	0.0
659	70	4.01e-04	8.62e-04	-0.04	-4.21e-05	1.61e-05	0.0
659	72	3.47e-04	7.42e-04	-0.03	-3.63e-05	1.40e-05	0.0
660	2	6.62e-04	2.01e-03	-0.05	-9.84e-05	2.80e-05	0.0
660	15	-1.88e-03	2.16e-03	-0.04	-6.38e-05	1.88e-05	0.0
660	17	2.73e-03	1.48e-03	-0.04	-6.00e-05	1.59e-05	0.0
660	27	-3.18e-04	3.72e-03	-0.04	-6.55e-05	1.74e-05	0.0
660	47	-3.24e-03	2.71e-03	-0.04	-6.56e-05	1.96e-05	0.0
660	49	4.10e-03	1.62e-03	-0.04	-5.96e-05	1.50e-05	0.0
660	59	-7.49e-04	5.18e-03	-0.04	-6.82e-05	1.74e-05	0.0
660	70	4.96e-04	1.50e-03	-0.04	-7.35e-05	2.10e-05	0.0
660	72	4.29e-04	1.29e-03	-0.04	-6.34e-05	1.82e-05	0.0
661	2	8.72e-04	2.80e-03	-0.06	-1.38e-04	3.88e-05	0.0
661	17	2.89e-03	1.97e-03	-0.04	-8.42e-05	2.21e-05	0.0
661	27	-2.05e-04	4.26e-03	-0.04	-9.26e-05	2.43e-05	0.0
661	49	4.27e-03	2.11e-03	-0.04	-8.36e-05	2.09e-05	0.0
661	59	-6.46e-04	5.76e-03	-0.04	-9.70e-05	2.43e-05	0.0
661	70	6.53e-04	2.09e-03	-0.04	-1.03e-04	2.90e-05	0.0
661	72	5.66e-04	1.80e-03	-0.04	-8.86e-05	2.52e-05	0.0
662	2	1.17e-03	3.48e-03	-0.06	-1.71e-04	5.46e-05	0.0
662	17	3.10e-03	2.39e-03	-0.05	-1.05e-04	3.16e-05	0.0
662	27	-2.41e-05	4.75e-03	-0.05	-1.17e-04	3.56e-05	0.0
662	49	4.49e-03	2.54e-03	-0.05	-1.05e-04	3.02e-05	0.0
662	59	-4.69e-04	6.29e-03	-0.05	-1.23e-04	3.65e-05	0.0
662	70	8.80e-04	2.60e-03	-0.05	-1.28e-04	4.09e-05	0.0

662	72	7.62e-04	2.24e-03	-0.05	-1.10e-04	3.55e-05	0.0
663	2	1.56e-03	3.96e-03	-0.07	-1.95e-04	7.54e-05	0.0
663	17	3.36e-03	2.70e-03	-0.05	-1.20e-04	4.40e-05	0.0
663	27	2.24e-04	5.11e-03	-0.05	-1.34e-04	5.01e-05	0.0
663	49	4.76e-03	2.85e-03	-0.05	-1.20e-04	4.22e-05	0.0
663	59	-2.16e-04	6.69e-03	-0.05	-1.43e-04	5.20e-05	0.0
663	70	1.17e-03	2.96e-03	-0.06	-1.46e-04	5.65e-05	0.0
663	72	1.01e-03	2.54e-03	-0.05	-1.25e-04	4.88e-05	0.0
664	2	2.00e-03	4.17e-03	-0.08	-2.05e-04	9.85e-05	0.0
664	17	3.64e-03	2.83e-03	-0.06	-1.26e-04	5.79e-05	0.0
664	27	5.03e-04	5.28e-03	-0.06	-1.43e-04	6.72e-05	0.0
664	49	5.05e-03	2.99e-03	-0.06	-1.27e-04	5.60e-05	0.0
664	59	7.17e-05	6.88e-03	-0.06	-1.52e-04	7.08e-05	0.0
664	70	1.50e-03	3.12e-03	-0.06	-1.53e-04	7.38e-05	0.0
664	72	1.29e-03	2.67e-03	-0.06	-1.32e-04	6.36e-05	0.0
665	2	2.22e-03	-4.79e-03	-0.09	2.35e-04	1.11e-04	0.0
665	10	3.84e-03	-3.19e-03	-0.06	1.44e-04	6.84e-05	0.0
665	24	6.21e-04	-5.76e-03	-0.06	1.64e-04	7.47e-05	0.0
665	42	5.29e-03	-3.33e-03	-0.06	1.45e-04	6.80e-05	0.0
665	56	1.76e-04	-7.43e-03	-0.07	1.76e-04	7.81e-05	0.0
665	70	1.67e-03	-3.58e-03	-0.07	1.75e-04	8.32e-05	0.0
665	72	1.44e-03	-3.07e-03	-0.06	1.50e-04	7.19e-05	0.0
666	2	1.91e-03	-4.69e-03	-0.08	2.30e-04	9.42e-05	0.0
666	10	3.63e-03	-3.12e-03	-0.06	1.41e-04	5.75e-05	0.0
666	24	4.34e-04	-5.66e-03	-0.06	1.60e-04	6.22e-05	0.0
666	42	5.06e-03	-3.26e-03	-0.06	1.41e-04	5.68e-05	0.0
666	56	-1.10e-05	-7.31e-03	-0.06	1.70e-04	6.43e-05	0.0
666	70	1.43e-03	-3.50e-03	-0.06	1.71e-04	7.06e-05	0.0
666	72	1.24e-03	-3.00e-03	-0.06	1.47e-04	6.11e-05	0.0
667	2	1.43e-03	-4.18e-03	-0.07	2.05e-04	6.75e-05	0.0
667	10	3.31e-03	-2.79e-03	-0.05	1.25e-04	4.13e-05	0.0
667	24	1.21e-04	-5.27e-03	-0.05	1.41e-04	4.33e-05	0.0
667	42	4.73e-03	-2.91e-03	-0.05	1.25e-04	4.08e-05	0.0
667	56	-3.34e-04	-6.86e-03	-0.05	1.49e-04	4.40e-05	0.0
667	70	1.07e-03	-3.12e-03	-0.05	1.53e-04	5.06e-05	0.0
667	72	9.30e-04	-2.68e-03	-0.05	1.32e-04	4.39e-05	0.0
668	2	1.04e-03	-3.42e-03	-0.06	1.68e-04	4.72e-05	0.0
668	10	3.04e-03	-2.32e-03	-0.04	1.03e-04	2.87e-05	0.0
668	24	-1.12e-04	-4.71e-03	-0.05	1.13e-04	2.92e-05	0.0
668	42	4.44e-03	-2.45e-03	-0.04	1.02e-04	2.82e-05	0.0
668	56	-5.62e-04	-6.24e-03	-0.05	1.19e-04	2.90e-05	0.0
668	70	7.81e-04	-2.56e-03	-0.05	1.26e-04	3.54e-05	0.0
668	72	6.78e-04	-2.20e-03	-0.04	1.08e-04	3.07e-05	0.0
669	2	7.73e-04	-2.54e-03	-0.05	1.25e-04	3.35e-05	0.0
669	8	-1.84e-03	-2.53e-03	-0.04	8.13e-05	2.15e-05	0.0
669	10	2.83e-03	-1.78e-03	-0.04	7.65e-05	2.02e-05	0.0
669	24	-2.60e-04	-4.10e-03	-0.04	8.33e-05	2.07e-05	0.0
669	40	-3.20e-03	-3.10e-03	-0.04	8.35e-05	2.18e-05	0.0
669	42	4.22e-03	-1.91e-03	-0.04	7.59e-05	1.98e-05	0.0
669	56	-6.97e-04	-5.58e-03	-0.04	8.67e-05	2.05e-05	0.0
669	70	5.79e-04	-1.90e-03	-0.04	9.37e-05	2.51e-05	0.0
669	72	5.02e-04	-1.64e-03	-0.04	8.08e-05	2.18e-05	0.0
670	2	6.04e-04	-1.61e-03	-0.05	7.97e-05	2.49e-05	0.0
670	8	-1.92e-03	-1.93e-03	-0.04	5.16e-05	1.61e-05	0.0
670	10	2.69e-03	-1.21e-03	-0.04	4.86e-05	1.48e-05	0.0
670	24	-3.42e-04	-3.47e-03	-0.04	5.26e-05	1.54e-05	0.0
670	40	-3.27e-03	-2.49e-03	-0.04	5.30e-05	1.65e-05	0.0
670	42	4.06e-03	-1.34e-03	-0.04	4.81e-05	1.44e-05	0.0
670	56	-7.66e-04	-4.93e-03	-0.04	5.45e-05	1.54e-05	0.0
670	70	4.53e-04	-1.20e-03	-0.04	5.95e-05	1.87e-05	0.0
670	72	3.92e-04	-1.04e-03	-0.04	5.14e-05	1.62e-05	0.0
671	2	5.18e-04	-6.58e-04	-0.05	3.29e-05	2.05e-05	0.0
671	10	2.60e-03	-6.29e-04	-0.03	2.01e-05	1.21e-05	0.0
671	12	-1.93e-03	-1.04e-03	-0.03	2.17e-05	1.35e-05	0.0
671	24	-3.72e-04	-2.85e-03	-0.03	2.23e-05	1.29e-05	0.0
671	42	3.95e-03	-7.59e-04	-0.03	1.99e-05	1.17e-05	0.0
671	44	-3.26e-03	-1.41e-03	-0.04	2.25e-05	1.38e-05	0.0
671	56	-7.82e-04	-4.30e-03	-0.03	2.34e-05	1.29e-05	0.0
671	70	3.88e-04	-4.92e-04	-0.03	2.46e-05	1.54e-05	0.0
671	72	3.35e-04	-4.24e-04	-0.03	2.12e-05	1.33e-05	0.0
672	2	5.03e-04	2.98e-04	-0.05	-1.40e-05	1.98e-05	0.0
672	15	-1.96e-03	1.10e-03	-0.03	-9.76e-06	1.30e-05	0.0
672	17	2.58e-03	4.11e-04	-0.03	-8.53e-06	1.16e-05	0.0
672	27	-3.74e-04	2.63e-03	-0.03	-1.03e-05	1.24e-05	0.0
672	47	-3.29e-03	1.64e-03	-0.03	-1.04e-05	1.33e-05	0.0
672	49	3.93e-03	5.44e-04	-0.03	-8.43e-06	1.13e-05	0.0

672	59	-7.79e-04	4.07e-03	-0.03	-1.13e-05	1.25e-05	0.0
672	70	3.77e-04	2.23e-04	-0.03	-1.05e-05	1.48e-05	0.0
672	72	3.25e-04	1.92e-04	-0.03	-9.06e-06	1.28e-05	0.0
673	2	5.58e-04	1.25e-03	-0.05	-6.09e-05	2.25e-05	0.0
673	15	-1.94e-03	1.70e-03	-0.04	-3.96e-05	1.46e-05	0.0
673	17	2.65e-03	9.96e-04	-0.04	-3.71e-05	1.34e-05	0.0
673	27	-3.64e-04	3.24e-03	-0.04	-4.03e-05	1.39e-05	0.0
673	47	-3.29e-03	2.25e-03	-0.04	-4.07e-05	1.50e-05	0.0
673	49	4.01e-03	1.13e-03	-0.04	-3.68e-05	1.29e-05	0.0
673	59	-7.83e-04	4.69e-03	-0.04	-4.18e-05	1.39e-05	0.0
673	70	4.18e-04	9.37e-04	-0.04	-4.55e-05	1.69e-05	0.0
673	72	3.62e-04	8.08e-04	-0.04	-3.93e-05	1.46e-05	0.0
674	2	6.90e-04	2.20e-03	-0.05	-1.07e-04	2.91e-05	0.0
674	15	-1.88e-03	2.31e-03	-0.04	-6.95e-05	1.87e-05	0.0
674	17	2.77e-03	1.57e-03	-0.04	-6.54e-05	1.75e-05	0.0
674	27	-3.05e-04	3.86e-03	-0.04	-7.10e-05	1.79e-05	0.0
674	47	-3.25e-03	2.87e-03	-0.04	-7.13e-05	1.90e-05	0.0
674	49	4.15e-03	1.70e-03	-0.04	-6.48e-05	1.71e-05	0.0
674	59	-7.39e-04	5.33e-03	-0.04	-7.37e-05	1.77e-05	0.0
674	70	5.17e-04	1.64e-03	-0.04	-8.01e-05	2.18e-05	0.0
674	72	4.48e-04	1.41e-03	-0.04	-6.91e-05	1.89e-05	0.0
675	2	9.11e-04	3.10e-03	-0.06	-1.52e-04	4.05e-05	0.0
675	17	2.95e-03	2.13e-03	-0.04	-9.26e-05	2.45e-05	0.0
675	27	-1.90e-04	4.48e-03	-0.04	-1.02e-04	2.49e-05	0.0
675	49	4.35e-03	2.26e-03	-0.04	-9.19e-05	2.41e-05	0.0
675	59	-6.37e-04	6.00e-03	-0.04	-1.06e-04	2.46e-05	0.0
675	70	6.83e-04	2.32e-03	-0.04	-1.13e-04	3.03e-05	0.0
675	72	5.92e-04	2.00e-03	-0.04	-9.77e-05	2.63e-05	0.0
676	2	1.24e-03	3.92e-03	-0.07	-1.92e-04	5.80e-05	0.0
676	17	3.18e-03	2.64e-03	-0.05	-1.17e-04	3.52e-05	0.0
676	27	0.0	5.07e-03	-0.05	-1.30e-04	3.72e-05	0.0
676	49	4.60e-03	2.76e-03	-0.05	-1.16e-04	3.45e-05	0.0
676	59	-4.56e-04	6.64e-03	-0.05	-1.38e-04	3.77e-05	0.0
676	70	9.32e-04	2.93e-03	-0.05	-1.43e-04	4.35e-05	0.0
676	72	8.09e-04	2.52e-03	-0.05	-1.23e-04	3.77e-05	0.0
677	2	1.69e-03	4.55e-03	-0.08	-2.22e-04	8.24e-05	0.0
677	17	3.48e-03	3.03e-03	-0.05	-1.36e-04	5.02e-05	0.0
677	27	2.85e-04	5.54e-03	-0.06	-1.53e-04	5.38e-05	0.0
677	49	4.91e-03	3.17e-03	-0.05	-1.36e-04	4.95e-05	0.0
677	59	-1.67e-04	7.17e-03	-0.06	-1.63e-04	5.51e-05	0.0
677	70	1.27e-03	3.40e-03	-0.06	-1.65e-04	6.18e-05	0.0
677	72	1.10e-03	2.91e-03	-0.05	-1.42e-04	5.35e-05	0.0
678	2	2.22e-03	4.78e-03	-0.09	-2.33e-04	1.11e-04	0.0
678	17	3.84e-03	3.20e-03	-0.06	-1.44e-04	6.81e-05	0.0
678	27	6.21e-04	5.75e-03	-0.06	-1.63e-04	7.44e-05	0.0
678	49	5.29e-03	3.35e-03	-0.06	-1.44e-04	6.77e-05	0.0
678	59	1.76e-04	7.41e-03	-0.07	-1.75e-04	7.78e-05	0.0
678	70	1.67e-03	3.57e-03	-0.07	-1.74e-04	8.29e-05	0.0
678	72	1.44e-03	3.06e-03	-0.06	-1.49e-04	7.16e-05	0.0
679	2	1.94e-03	-5.78e-03	-0.09	2.77e-04	9.62e-05	0.0
679	10	3.73e-03	-3.79e-03	-0.06	1.72e-04	6.21e-05	0.0
679	24	4.25e-04	-6.50e-03	-0.07	1.95e-04	6.40e-05	0.0
679	42	5.22e-03	-3.95e-03	-0.06	1.73e-04	6.33e-05	0.0
679	56	-3.32e-05	-8.25e-03	-0.07	2.10e-04	6.63e-05	0.0
679	70	1.45e-03	-4.31e-03	-0.07	2.07e-04	7.21e-05	0.0
679	72	1.26e-03	-3.69e-03	-0.07	1.77e-04	6.25e-05	0.0
680	2	1.45e-03	-5.79e-03	-0.09	2.75e-04	7.47e-05	0.0
680	10	3.44e-03	-3.76e-03	-0.06	1.69e-04	4.95e-05	0.0
680	24	9.65e-05	-6.48e-03	-0.06	1.92e-04	4.77e-05	0.0
680	42	4.92e-03	-3.89e-03	-0.06	1.69e-04	5.10e-05	0.0
680	56	-3.86e-04	-8.21e-03	-0.06	2.06e-04	4.81e-05	0.0
680	70	1.09e-03	-4.33e-03	-0.07	2.05e-04	5.60e-05	0.0
680	72	9.52e-04	-3.70e-03	-0.06	1.76e-04	4.88e-05	0.0
681	2	1.19e-03	-4.70e-03	-0.07	2.29e-04	5.60e-05	0.0
681	10	3.23e-03	-3.10e-03	-0.05	1.41e-04	3.70e-05	0.0
681	24	-4.86e-05	-5.63e-03	-0.05	1.56e-04	3.53e-05	0.0
681	42	4.69e-03	-3.22e-03	-0.05	1.40e-04	3.81e-05	0.0
681	56	-5.18e-04	-7.24e-03	-0.05	1.65e-04	3.54e-05	0.0
681	70	8.95e-04	-3.51e-03	-0.06	1.71e-04	4.20e-05	0.0
681	72	7.79e-04	-3.02e-03	-0.05	1.47e-04	3.66e-05	0.0
682	2	8.75e-04	-3.76e-03	-0.06	1.84e-04	3.89e-05	0.0
682	10	2.97e-03	-2.52e-03	-0.05	1.13e-04	2.51e-05	0.0
682	24	-2.23e-04	-4.95e-03	-0.05	1.23e-04	2.37e-05	0.0
682	42	4.39e-03	-2.63e-03	-0.05	1.12e-04	2.56e-05	0.0
682	56	-6.78e-04	-6.49e-03	-0.05	1.29e-04	2.32e-05	0.0
682	70	6.56e-04	-2.81e-03	-0.05	1.38e-04	2.92e-05	0.0

682	72	5.70e-04	-2.42e-03	-0.05	1.19e-04	2.54e-05	0.0
683	2	6.59e-04	-2.76e-03	-0.06	1.35e-04	2.78e-05	0.0
683	8	-1.93e-03	-2.69e-03	-0.04	8.74e-05	1.70e-05	0.0
683	10	2.78e-03	-1.90e-03	-0.04	8.31e-05	1.76e-05	0.0
683	24	-3.33e-04	-4.25e-03	-0.04	8.95e-05	1.70e-05	0.0
683	40	-3.30e-03	-3.27e-03	-0.04	8.95e-05	1.68e-05	0.0
683	42	4.18e-03	-2.02e-03	-0.04	8.26e-05	1.77e-05	0.0
683	56	-7.72e-04	-5.75e-03	-0.04	9.28e-05	1.67e-05	0.0
683	70	4.94e-04	-2.06e-03	-0.04	1.01e-04	2.08e-05	0.0
683	72	4.28e-04	-1.78e-03	-0.04	8.74e-05	1.81e-05	0.0
684	2	5.26e-04	-1.73e-03	-0.05	8.54e-05	2.10e-05	0.0
684	10	2.65e-03	-1.27e-03	-0.04	5.23e-05	1.29e-05	0.0
684	12	-1.94e-03	-1.73e-03	-0.04	5.50e-05	1.33e-05	0.0
684	24	-3.92e-04	-3.57e-03	-0.04	5.61e-05	1.30e-05	0.0
684	42	4.03e-03	-1.38e-03	-0.04	5.20e-05	1.28e-05	0.0
684	44	-3.28e-03	-2.11e-03	-0.04	5.62e-05	1.34e-05	0.0
684	56	-8.17e-04	-5.04e-03	-0.04	5.79e-05	1.29e-05	0.0
684	70	3.94e-04	-1.30e-03	-0.04	6.39e-05	1.57e-05	0.0
684	72	3.41e-04	-1.12e-03	-0.04	5.52e-05	1.36e-05	0.0
685	2	4.58e-04	-7.08e-04	-0.05	3.52e-05	1.76e-05	0.0
685	10	2.57e-03	-6.38e-04	-0.04	2.15e-05	1.06e-05	0.0
685	12	-1.98e-03	-1.08e-03	-0.04	2.31e-05	1.13e-05	0.0
685	24	-4.11e-04	-2.90e-03	-0.04	2.36e-05	1.10e-05	0.0
685	42	3.92e-03	-7.55e-04	-0.03	2.14e-05	1.04e-05	0.0
685	44	-3.32e-03	-1.46e-03	-0.04	2.38e-05	1.15e-05	0.0
685	56	-8.21e-04	-4.36e-03	-0.04	2.47e-05	1.10e-05	0.0
685	70	3.43e-04	-5.29e-04	-0.04	2.63e-05	1.32e-05	0.0
685	72	2.96e-04	-4.57e-04	-0.04	2.27e-05	1.14e-05	0.0
686	2	4.47e-04	3.17e-04	-0.05	-1.49e-05	1.70e-05	0.0
686	15	-2.00e-03	1.13e-03	-0.04	-1.03e-05	1.09e-05	0.0
686	17	2.56e-03	4.01e-04	-0.03	-9.11e-06	1.02e-05	0.0
686	27	-4.11e-04	2.66e-03	-0.04	-1.08e-05	1.06e-05	0.0
686	47	-3.34e-03	1.68e-03	-0.04	-1.08e-05	1.11e-05	0.0
686	49	3.90e-03	5.21e-04	-0.03	-9.01e-06	1.00e-05	0.0
686	59	-8.16e-04	4.11e-03	-0.04	-1.17e-05	1.07e-05	0.0
686	70	3.35e-04	2.37e-04	-0.04	-1.12e-05	1.27e-05	0.0
686	72	2.89e-04	2.05e-04	-0.04	-9.65e-06	1.10e-05	0.0
687	2	4.91e-04	1.34e-03	-0.05	-6.51e-05	1.92e-05	0.0
687	15	-2.00e-03	1.78e-03	-0.04	-4.21e-05	1.21e-05	0.0
687	17	2.62e-03	1.03e-03	-0.04	-3.99e-05	1.17e-05	0.0
687	27	-4.06e-04	3.31e-03	-0.04	-4.28e-05	1.18e-05	0.0
687	47	-3.35e-03	2.34e-03	-0.04	-4.32e-05	1.22e-05	0.0
687	49	3.99e-03	1.15e-03	-0.04	-3.95e-05	1.16e-05	0.0
687	59	-8.26e-04	4.77e-03	-0.04	-4.43e-05	1.17e-05	0.0
687	70	3.68e-04	1.00e-03	-0.04	-4.87e-05	1.44e-05	0.0
687	72	3.18e-04	8.66e-04	-0.04	-4.20e-05	1.24e-05	0.0
688	2	5.95e-04	2.37e-03	-0.05	-1.15e-04	2.44e-05	0.0
688	15	-1.96e-03	2.44e-03	-0.04	-7.43e-05	1.50e-05	0.0
688	17	2.73e-03	1.66e-03	-0.04	-7.06e-05	1.54e-05	0.0
688	27	-3.66e-04	3.99e-03	-0.04	-7.59e-05	1.49e-05	0.0
688	47	-3.33e-03	3.01e-03	-0.04	-7.61e-05	1.49e-05	0.0
688	49	4.12e-03	1.78e-03	-0.04	-7.02e-05	1.54e-05	0.0
688	59	-8.00e-04	5.47e-03	-0.04	-7.85e-05	1.46e-05	0.0
688	70	4.46e-04	1.77e-03	-0.04	-8.62e-05	1.83e-05	0.0
688	72	3.86e-04	1.53e-03	-0.04	-7.44e-05	1.59e-05	0.0
689	2	7.70e-04	3.39e-03	-0.06	-1.65e-04	3.33e-05	0.0
689	17	2.89e-03	2.29e-03	-0.04	-1.01e-04	2.15e-05	0.0
689	27	-2.81e-04	4.68e-03	-0.04	-1.10e-04	2.02e-05	0.0
689	49	4.31e-03	2.41e-03	-0.04	-1.01e-04	2.18e-05	0.0
689	59	-7.31e-04	6.21e-03	-0.04	-1.14e-04	1.98e-05	0.0
689	70	5.78e-04	2.53e-03	-0.05	-1.23e-04	2.50e-05	0.0
689	72	5.02e-04	2.18e-03	-0.04	-1.06e-04	2.17e-05	0.0
690	2	1.02e-03	4.38e-03	-0.07	-2.12e-04	4.70e-05	0.0
690	17	3.10e-03	2.90e-03	-0.05	-1.30e-04	3.08e-05	0.0
690	27	-1.50e-04	5.38e-03	-0.05	-1.43e-04	2.98e-05	0.0
690	49	4.55e-03	3.02e-03	-0.05	-1.30e-04	3.15e-05	0.0
690	59	-6.16e-04	6.96e-03	-0.05	-1.51e-04	3.00e-05	0.0
690	70	7.66e-04	3.27e-03	-0.05	-1.59e-04	3.53e-05	0.0
690	72	6.67e-04	2.81e-03	-0.05	-1.37e-04	3.07e-05	0.0
691	2	1.14e-03	5.52e-03	-0.08	-2.63e-04	5.98e-05	0.0
691	17	3.24e-03	3.60e-03	-0.06	-1.61e-04	4.00e-05	0.0
691	27	-1.16e-04	6.24e-03	-0.06	-1.82e-04	3.80e-05	0.0
691	49	4.72e-03	3.72e-03	-0.06	-1.61e-04	4.12e-05	0.0
691	59	-6.09e-04	7.93e-03	-0.06	-1.94e-04	3.80e-05	0.0
691	70	8.53e-04	4.12e-03	-0.06	-1.96e-04	4.49e-05	0.0
691	72	7.48e-04	3.54e-03	-0.06	-1.68e-04	3.92e-05	0.0

692	2	1.94e-03	5.77e-03	-0.09	-2.77e-04	9.56e-05	0.0
692	17	3.72e-03	3.81e-03	-0.06	-1.72e-04	6.17e-05	0.0
692	27	4.28e-04	6.49e-03	-0.07	-1.94e-04	6.38e-05	0.0
692	49	5.21e-03	3.98e-03	-0.06	-1.73e-04	6.29e-05	0.0
692	59	-2.79e-05	8.23e-03	-0.07	-2.09e-04	6.62e-05	0.0
692	70	1.45e-03	4.31e-03	-0.07	-2.07e-04	7.17e-05	0.0
692	72	1.26e-03	3.68e-03	-0.07	-1.77e-04	6.21e-05	0.0
693	1	4.65e-04	3.77e-03	-0.07	-1.85e-04	1.87e-05	0.0
693	2	4.16e-04	4.50e-03	-0.08	-2.20e-04	1.51e-05	0.0
693	13	3.26e-03	3.24e-03	-0.06	-1.53e-04	3.87e-05	0.0
693	17	3.38e-03	2.90e-03	-0.06	-1.52e-04	3.87e-05	0.0
693	21	1.02e-03	5.87e-03	-0.06	-1.58e-04	2.02e-05	0.0
693	45	4.97e-03	3.45e-03	-0.06	-1.60e-04	5.32e-05	0.0
693	49	5.17e-03	2.89e-03	-0.06	-1.58e-04	5.31e-05	0.0
693	53	1.41e-03	7.62e-03	-0.06	-1.67e-04	2.37e-05	0.0
693	69	3.55e-04	2.90e-03	-0.06	-1.42e-04	1.42e-05	0.0
693	70	3.22e-04	3.38e-03	-0.06	-1.66e-04	1.18e-05	0.0
693	71	3.55e-04	2.90e-03	-0.06	-1.42e-04	1.42e-05	0.0
693	72	3.48e-04	2.99e-03	-0.06	-1.47e-04	1.37e-05	0.0
694	2	6.36e-04	-5.87e-03	-0.09	2.91e-04	2.55e-05	0.0
694	10	3.11e-03	-3.84e-03	-0.06	1.82e-04	2.62e-05	0.0
694	24	-4.48e-04	-6.49e-03	-0.06	2.02e-04	1.47e-05	0.0
694	42	4.71e-03	-3.97e-03	-0.06	1.84e-04	3.19e-05	0.0
694	56	-9.51e-04	-8.19e-03	-0.07	2.16e-04	1.37e-05	0.0
694	70	4.78e-04	-4.38e-03	-0.07	2.17e-04	1.92e-05	0.0
694	72	4.23e-04	-3.76e-03	-0.06	1.87e-04	1.71e-05	0.0
695	2	5.16e-04	-5.04e-03	-0.08	2.46e-04	2.04e-05	0.0
695	10	2.84e-03	-3.31e-03	-0.05	1.53e-04	1.62e-05	0.0
695	24	-4.68e-04	-5.86e-03	-0.05	1.67e-04	1.29e-05	0.0
695	42	4.32e-03	-3.44e-03	-0.05	1.54e-04	1.80e-05	0.0
695	56	-9.35e-04	-7.48e-03	-0.06	1.75e-04	1.27e-05	0.0
695	70	3.87e-04	-3.76e-03	-0.06	1.84e-04	1.54e-05	0.0
695	72	3.39e-04	-3.24e-03	-0.05	1.58e-04	1.35e-05	0.0
696	2	4.38e-04	-3.99e-03	-0.06	1.95e-04	1.68e-05	0.0
696	10	2.72e-03	-2.66e-03	-0.05	1.21e-04	1.24e-05	0.0
696	24	-4.93e-04	-5.11e-03	-0.05	1.30e-04	1.06e-05	0.0
696	42	4.16e-03	-2.77e-03	-0.05	1.21e-04	1.35e-05	0.0
696	56	-9.45e-04	-6.66e-03	-0.05	1.35e-04	1.06e-05	0.0
696	70	3.28e-04	-2.98e-03	-0.05	1.46e-04	1.26e-05	0.0
696	72	2.86e-04	-2.57e-03	-0.05	1.26e-04	1.10e-05	0.0
697	2	3.78e-04	-2.91e-03	-0.06	1.42e-04	1.38e-05	0.0
697	8	-2.11e-03	-2.80e-03	-0.04	9.12e-05	8.12e-06	0.0
697	10	2.62e-03	-1.98e-03	-0.04	8.83e-05	9.36e-06	0.0
697	24	-5.06e-04	-4.36e-03	-0.04	9.38e-05	8.77e-06	0.0
697	40	-3.50e-03	-3.39e-03	-0.04	9.28e-05	7.80e-06	0.0
697	42	4.02e-03	-2.08e-03	-0.04	8.82e-05	9.77e-06	0.0
697	56	-9.43e-04	-5.88e-03	-0.04	9.70e-05	8.83e-06	0.0
697	70	2.83e-04	-2.17e-03	-0.04	1.07e-04	1.04e-05	0.0
697	72	2.45e-04	-1.88e-03	-0.04	9.20e-05	9.00e-06	0.0
698	2	3.36e-04	-1.82e-03	-0.05	8.95e-05	1.17e-05	0.0
698	10	2.54e-03	-1.30e-03	-0.04	5.54e-05	7.41e-06	0.0
698	12	-2.07e-03	-1.80e-03	-0.04	5.73e-05	7.17e-06	0.0
698	24	-5.10e-04	-3.64e-03	-0.04	5.86e-05	7.38e-06	0.0
698	42	3.92e-03	-1.41e-03	-0.04	5.52e-05	7.50e-06	0.0
698	44	-3.41e-03	-2.19e-03	-0.04	5.82e-05	7.12e-06	0.0
698	56	-9.33e-04	-5.13e-03	-0.04	6.04e-05	7.45e-06	0.0
698	70	2.52e-04	-1.36e-03	-0.04	6.70e-05	8.74e-06	0.0
698	72	2.17e-04	-1.18e-03	-0.04	5.79e-05	7.55e-06	0.0
699	2	3.13e-04	-7.43e-04	-0.05	3.69e-05	1.05e-05	0.0
699	10	2.49e-03	-6.36e-04	-0.04	2.27e-05	6.27e-06	0.0
699	12	-2.08e-03	-1.12e-03	-0.04	2.40e-05	6.72e-06	0.0
699	24	-5.02e-04	-2.95e-03	-0.04	2.46e-05	6.60e-06	0.0
699	42	3.84e-03	-7.39e-04	-0.04	2.27e-05	6.15e-06	0.0
699	44	-3.41e-03	-1.51e-03	-0.04	2.46e-05	6.86e-06	0.0
699	56	-9.13e-04	-4.41e-03	-0.04	2.56e-05	6.67e-06	0.0
699	70	2.35e-04	-5.55e-04	-0.04	2.76e-05	7.84e-06	0.0
699	72	2.02e-04	-4.80e-04	-0.04	2.38e-05	6.76e-06	0.0
700	2	3.11e-04	3.30e-04	-0.05	-1.56e-05	1.03e-05	0.0
700	15	-2.09e-03	1.16e-03	-0.04	-1.06e-05	6.64e-06	0.0
700	17	2.48e-03	3.84e-04	-0.04	-9.66e-06	6.11e-06	0.0
700	27	-4.97e-04	2.69e-03	-0.04	-1.12e-05	6.48e-06	0.0
700	47	-3.43e-03	1.73e-03	-0.04	-1.11e-05	6.79e-06	0.0
700	49	3.82e-03	4.89e-04	-0.04	-9.63e-06	5.97e-06	0.0
700	59	-9.02e-04	4.15e-03	-0.04	-1.21e-05	6.55e-06	0.0
700	70	2.33e-04	2.47e-04	-0.04	-1.17e-05	7.71e-06	0.0
700	72	2.00e-04	2.13e-04	-0.04	-1.01e-05	6.63e-06	0.0

701	2	3.28e-04	1.41e-03	-0.05	-6.82e-05	1.11e-05	0.0
701	15	-2.10e-03	1.84e-03	-0.04	-4.38e-05	7.06e-06	0.0
701	17	2.53e-03	1.05e-03	-0.04	-4.21e-05	6.84e-06	0.0
701	27	-5.07e-04	3.37e-03	-0.04	-4.47e-05	7.08e-06	0.0
701	47	-3.46e-03	2.41e-03	-0.04	-4.46e-05	7.14e-06	0.0
701	49	3.90e-03	1.15e-03	-0.04	-4.20e-05	6.79e-06	0.0
701	59	-9.25e-04	4.84e-03	-0.04	-4.61e-05	7.18e-06	0.0
701	70	2.46e-04	1.05e-03	-0.04	-5.10e-05	8.34e-06	0.0
701	72	2.12e-04	9.07e-04	-0.04	-4.41e-05	7.20e-06	0.0
702	2	3.66e-04	2.49e-03	-0.05	-1.21e-04	1.30e-05	0.0
702	15	-2.11e-03	2.53e-03	-0.04	-7.74e-05	7.75e-06	0.0
702	17	2.60e-03	1.72e-03	-0.04	-7.49e-05	8.60e-06	0.0
702	27	-5.05e-04	4.08e-03	-0.04	-7.94e-05	8.25e-06	0.0
702	47	-3.49e-03	3.11e-03	-0.04	-7.87e-05	7.54e-06	0.0
702	49	3.99e-03	1.83e-03	-0.04	-7.48e-05	8.89e-06	0.0
702	59	-9.37e-04	5.58e-03	-0.04	-8.19e-05	8.33e-06	0.0
702	70	2.74e-04	1.86e-03	-0.04	-9.04e-05	9.73e-06	0.0
702	72	2.37e-04	1.61e-03	-0.04	-7.82e-05	8.44e-06	0.0
703	2	4.24e-04	3.58e-03	-0.06	-1.74e-04	1.57e-05	0.0
703	17	2.69e-03	2.40e-03	-0.04	-1.08e-04	1.13e-05	0.0
703	27	-4.93e-04	4.82e-03	-0.04	-1.15e-04	9.98e-06	0.0
703	49	4.12e-03	2.51e-03	-0.04	-1.08e-04	1.21e-05	0.0
703	59	-9.39e-04	6.35e-03	-0.05	-1.20e-04	1.00e-05	0.0
703	70	3.18e-04	2.67e-03	-0.05	-1.30e-04	1.18e-05	0.0
703	72	2.76e-04	2.31e-03	-0.04	-1.12e-04	1.03e-05	0.0
704	2	5.03e-04	4.65e-03	-0.07	-2.26e-04	1.93e-05	0.0
704	17	2.81e-03	3.08e-03	-0.05	-1.41e-04	1.50e-05	0.0
704	27	-4.68e-04	5.57e-03	-0.05	-1.52e-04	1.21e-05	0.0
704	49	4.28e-03	3.19e-03	-0.05	-1.41e-04	1.66e-05	0.0
704	59	-9.29e-04	7.17e-03	-0.05	-1.59e-04	1.21e-05	0.0
704	70	3.77e-04	3.48e-03	-0.05	-1.69e-04	1.45e-05	0.0
704	72	3.29e-04	2.99e-03	-0.05	-1.46e-04	1.27e-05	0.0
705	2	6.44e-04	5.57e-03	-0.08	-2.74e-04	2.48e-05	0.0
705	17	3.04e-03	3.65e-03	-0.06	-1.71e-04	2.25e-05	0.0
705	27	-4.18e-04	6.24e-03	-0.06	-1.87e-04	1.51e-05	0.0
705	49	4.59e-03	3.78e-03	-0.06	-1.72e-04	2.64e-05	0.0
705	59	-9.04e-04	7.89e-03	-0.06	-1.98e-04	1.46e-05	0.0
705	70	4.84e-04	4.17e-03	-0.06	-2.05e-04	1.87e-05	0.0
705	72	4.26e-04	3.58e-03	-0.06	-1.76e-04	1.65e-05	0.0
706	1	6.75e-04	4.01e-03	-0.08	-1.96e-04	2.92e-05	0.0
706	2	6.54e-04	4.79e-03	-0.09	-2.34e-04	2.69e-05	0.0
706	13	3.45e-03	4.38e-03	-0.07	-1.65e-04	4.84e-05	0.0
706	17	3.59e-03	4.02e-03	-0.07	-1.63e-04	4.84e-05	0.0
706	21	1.20e-03	6.14e-03	-0.07	-1.70e-04	3.01e-05	0.0
706	45	5.18e-03	5.14e-03	-0.07	-1.73e-04	6.37e-05	0.0
706	49	5.40e-03	4.57e-03	-0.07	-1.70e-04	6.38e-05	0.0
706	53	1.60e-03	7.93e-03	-0.07	-1.81e-04	3.45e-05	0.0
706	69	5.16e-04	3.08e-03	-0.06	-1.50e-04	2.23e-05	0.0
706	70	5.02e-04	3.60e-03	-0.07	-1.76e-04	2.08e-05	0.0
706	71	5.16e-04	3.08e-03	-0.06	-1.50e-04	2.23e-05	0.0
706	72	5.14e-04	3.19e-03	-0.06	-1.55e-04	2.20e-05	0.0
707	1	6.54e-04	-4.07e-03	-0.08	2.00e-04	2.60e-05	0.0
707	2	6.41e-04	-4.84e-03	-0.08	2.38e-04	2.38e-05	0.0
707	6	3.65e-03	-4.43e-03	-0.07	1.72e-04	5.47e-05	0.0
707	10	3.77e-03	-4.08e-03	-0.06	1.70e-04	5.48e-05	0.0
707	26	1.24e-03	-6.16e-03	-0.06	1.73e-04	2.86e-05	0.0
707	38	5.50e-03	-5.19e-03	-0.07	1.82e-04	7.52e-05	0.0
707	42	5.70e-03	-4.63e-03	-0.07	1.79e-04	7.54e-05	0.0
707	58	1.68e-03	-7.94e-03	-0.06	1.85e-04	3.37e-05	0.0
707	69	5.01e-04	-3.13e-03	-0.06	1.54e-04	1.99e-05	0.0
707	70	4.92e-04	-3.64e-03	-0.06	1.79e-04	1.84e-05	0.0
707	71	5.01e-04	-3.13e-03	-0.06	1.54e-04	1.99e-05	0.0
707	72	4.99e-04	-3.23e-03	-0.06	1.59e-04	1.96e-05	0.0
708	1	4.03e-04	-3.66e-03	-0.07	1.80e-04	1.46e-05	0.0
708	2	3.58e-04	-4.34e-03	-0.07	2.13e-04	1.09e-05	0.0
708	6	3.20e-03	-4.07e-03	-0.06	1.55e-04	3.59e-05	0.0
708	10	3.30e-03	-3.73e-03	-0.06	1.54e-04	3.60e-05	0.0
708	26	1.00e-03	-5.77e-03	-0.05	1.53e-04	1.69e-05	0.0
708	38	4.90e-03	-4.81e-03	-0.06	1.65e-04	5.06e-05	0.0
708	42	5.07e-03	-4.27e-03	-0.06	1.63e-04	5.07e-05	0.0
708	58	1.41e-03	-7.50e-03	-0.06	1.61e-04	2.04e-05	0.0
708	69	3.07e-04	-2.81e-03	-0.05	1.38e-04	1.11e-05	0.0
708	70	2.77e-04	-3.26e-03	-0.05	1.60e-04	8.60e-06	0.0
708	71	3.07e-04	-2.81e-03	-0.05	1.38e-04	1.11e-05	0.0
708	72	3.01e-04	-2.90e-03	-0.05	1.42e-04	1.06e-05	0.0
709	1	2.27e-04	-3.02e-03	-0.06	1.49e-04	6.31e-06	0.0

709	2	1.62e-04	-3.58e-03	-0.06	1.76e-04	1.78e-06	0.0
709	6	2.94e-03	-3.55e-03	-0.05	1.29e-04	2.48e-05	0.0
709	10	3.03e-03	-3.22e-03	-0.05	1.28e-04	2.48e-05	0.0
709	26	8.59e-04	-5.19e-03	-0.05	1.24e-04	8.56e-06	0.0
709	38	4.57e-03	-4.28e-03	-0.05	1.38e-04	3.66e-05	0.0
709	42	4.71e-03	-3.75e-03	-0.05	1.37e-04	3.66e-05	0.0
709	58	1.27e-03	-6.88e-03	-0.05	1.31e-04	1.09e-05	0.0
709	69	1.71e-04	-2.32e-03	-0.05	1.14e-04	4.68e-06	0.0
709	70	1.28e-04	-2.69e-03	-0.05	1.32e-04	1.66e-06	0.0
709	71	1.71e-04	-2.32e-03	-0.05	1.14e-04	4.68e-06	0.0
709	72	1.63e-04	-2.39e-03	-0.05	1.18e-04	4.08e-06	0.0
710	1	1.01e-04	-2.27e-03	-0.05	1.12e-04	0.0	0.0
710	2	2.45e-05	-2.68e-03	-0.05	1.32e-04	-4.74e-06	0.0
710	6	2.74e-03	-2.97e-03	-0.04	9.78e-05	1.61e-05	0.0
710	10	2.80e-03	-2.65e-03	-0.04	9.72e-05	1.62e-05	0.0
710	26	7.67e-04	-4.54e-03	-0.04	9.24e-05	3.23e-06	0.0
710	38	4.31e-03	-3.69e-03	-0.05	1.05e-04	2.56e-05	0.0
710	42	4.41e-03	-3.18e-03	-0.05	1.04e-04	2.57e-05	0.0
710	58	1.18e-03	-6.19e-03	-0.04	9.63e-05	5.12e-06	0.0
710	69	7.40e-05	-1.74e-03	-0.04	8.56e-05	0.0	0.0
710	70	2.31e-05	-2.02e-03	-0.04	9.90e-05	-3.32e-06	0.0
710	71	7.40e-05	-1.74e-03	-0.04	8.56e-05	0.0	0.0
710	72	6.38e-05	-1.80e-03	-0.04	8.83e-05	0.0	0.0
711	2	-6.26e-05	-1.71e-03	-0.05	8.40e-05	-8.90e-06	0.0
711	4	-7.60e-05	-1.37e-03	-0.04	6.73e-05	-8.51e-06	0.0
711	6	2.60e-03	-1.41e-03	-0.04	6.36e-05	1.04e-05	0.0
711	10	2.64e-03	-1.09e-03	-0.04	6.32e-05	1.05e-05	0.0
711	26	7.21e-04	-3.86e-03	-0.04	5.87e-05	0.0	0.0
711	38	4.12e-03	-1.59e-03	-0.04	6.88e-05	1.84e-05	0.0
711	42	4.19e-03	-1.08e-03	-0.04	6.83e-05	1.84e-05	0.0
711	58	1.14e-03	-5.48e-03	-0.04	6.10e-05	1.76e-06	0.0
711	70	-4.35e-05	-1.29e-03	-0.04	6.32e-05	-6.50e-06	0.0
711	71	1.16e-05	-1.11e-03	-0.04	5.47e-05	-2.99e-06	0.0
711	72	0.0	-1.15e-03	-0.04	5.64e-05	-3.69e-06	0.0
712	1	-2.13e-05	-6.06e-04	-0.05	2.95e-05	-5.66e-06	0.0
712	2	-1.07e-04	-7.15e-04	-0.05	3.48e-05	-1.10e-05	0.0
712	4	-1.11e-04	-5.73e-04	-0.04	2.79e-05	-1.02e-05	0.0
712	6	2.51e-03	-7.21e-04	-0.04	2.84e-05	7.22e-06	0.0
712	11	-2.57e-03	-5.25e-04	-0.03	1.71e-05	-1.63e-05	0.0
712	26	7.13e-04	-3.18e-03	-0.04	2.52e-05	-1.46e-06	0.0
712	38	4.01e-03	-8.71e-04	-0.04	3.18e-05	1.42e-05	0.0
712	43	-4.08e-03	-5.66e-04	-0.03	1.39e-05	-2.33e-05	0.0
712	58	1.15e-03	-4.78e-03	-0.04	2.66e-05	0.0	0.0
712	69	-2.03e-05	-4.65e-04	-0.04	2.27e-05	-4.55e-06	0.0
712	70	-7.71e-05	-5.38e-04	-0.04	2.62e-05	-8.13e-06	0.0
712	71	-2.03e-05	-4.65e-04	-0.04	2.27e-05	-4.55e-06	0.0
712	72	-3.17e-05	-4.80e-04	-0.04	2.34e-05	-5.27e-06	0.0
713	1	-2.65e-05	2.49e-04	-0.05	-1.27e-05	-5.96e-06	0.0
713	2	-1.12e-04	2.93e-04	-0.05	-1.50e-05	-1.13e-05	0.0
713	4	-1.15e-04	2.35e-04	-0.03	-1.20e-05	-1.04e-05	0.0
713	17	2.51e-03	1.24e-04	-0.04	-1.42e-05	6.66e-06	0.0
713	20	-2.56e-03	2.59e-04	-0.03	-5.39e-06	-1.62e-05	0.0
713	21	7.20e-04	2.90e-03	-0.04	-1.06e-05	-1.62e-06	0.0
713	49	4.00e-03	7.89e-05	-0.04	-1.68e-05	1.34e-05	0.0
713	52	-4.05e-03	3.04e-04	-0.03	-2.79e-06	-2.30e-05	0.0
713	53	1.16e-03	4.49e-03	-0.04	-1.11e-05	0.0	0.0
713	69	-2.43e-05	1.91e-04	-0.04	-9.78e-06	-4.79e-06	0.0
713	70	-8.12e-05	2.21e-04	-0.04	-1.13e-05	-8.37e-06	0.0
713	71	-2.43e-05	1.91e-04	-0.04	-9.78e-06	-4.79e-06	0.0
713	72	-3.57e-05	1.97e-04	-0.04	-1.01e-05	-5.50e-06	0.0
714	1	3.88e-06	1.10e-03	-0.05	-5.48e-05	-4.58e-06	0.0
714	2	-7.91e-05	1.30e-03	-0.05	-6.46e-05	-9.88e-06	0.0
714	4	-8.88e-05	1.04e-03	-0.04	-5.17e-05	-9.28e-06	0.0
714	13	2.57e-03	1.13e-03	-0.04	-4.96e-05	9.03e-06	0.0
714	20	-2.60e-03	8.73e-04	-0.03	-3.48e-05	-1.65e-05	0.0
714	21	7.17e-04	3.58e-03	-0.04	-4.52e-05	0.0	0.0
714	45	4.08e-03	1.30e-03	-0.04	-5.40e-05	1.66e-05	0.0
714	52	-4.14e-03	8.95e-04	-0.03	-3.05e-05	-2.41e-05	0.0
714	53	1.14e-03	5.19e-03	-0.04	-4.71e-05	1.03e-06	0.0
714	69	0.0	8.45e-04	-0.04	-4.21e-05	-3.72e-06	0.0
714	70	-5.62e-05	9.76e-04	-0.04	-4.86e-05	-7.25e-06	0.0
714	71	0.0	8.45e-04	-0.04	-4.21e-05	-3.72e-06	0.0
714	72	-1.19e-05	8.71e-04	-0.04	-4.34e-05	-4.42e-06	0.0
715	1	7.28e-05	1.93e-03	-0.05	-9.58e-05	-1.36e-06	0.0
715	2	-4.60e-06	2.28e-03	-0.05	-1.13e-04	-6.47e-06	0.0
715	13	2.69e-03	1.81e-03	-0.04	-8.43e-05	1.38e-05	0.0

715	17	2.74e-03	1.49e-03	-0.04	-8.38e-05	1.39e-05	0.0
715	21	7.51e-04	4.26e-03	-0.04	-7.90e-05	1.84e-06	0.0
715	45	4.24e-03	2.00e-03	-0.04	-9.06e-05	2.27e-05	0.0
715	49	4.33e-03	1.49e-03	-0.04	-8.99e-05	2.28e-05	0.0
715	53	1.16e-03	5.90e-03	-0.04	-8.22e-05	3.66e-06	0.0
715	69	5.23e-05	1.48e-03	-0.04	-7.35e-05	-1.24e-06	0.0
715	70	0.0	1.71e-03	-0.04	-8.50e-05	-4.64e-06	0.0
715	71	5.23e-05	1.48e-03	-0.04	-7.35e-05	-1.24e-06	0.0
715	72	4.20e-05	1.53e-03	-0.04	-7.58e-05	-1.92e-06	0.0
716	1	1.86e-04	2.71e-03	-0.06	-1.34e-04	3.93e-06	0.0
716	2	1.19e-04	3.21e-03	-0.06	-1.59e-04	0.0	0.0
716	13	2.87e-03	3.31e-03	-0.05	-1.17e-04	2.13e-05	0.0
716	17	2.95e-03	2.98e-03	-0.05	-1.16e-04	2.14e-05	0.0
716	21	8.30e-04	4.93e-03	-0.05	-1.12e-04	6.41e-06	0.0
716	45	4.48e-03	4.03e-03	-0.05	-1.25e-04	3.22e-05	0.0
716	49	4.61e-03	3.50e-03	-0.05	-1.24e-04	3.23e-05	0.0
716	53	1.24e-03	6.60e-03	-0.05	-1.17e-04	8.52e-06	0.0
716	69	1.40e-04	2.08e-03	-0.04	-1.03e-04	2.85e-06	0.0
716	70	9.53e-05	2.41e-03	-0.05	-1.19e-04	0.0	0.0
716	71	1.40e-04	2.08e-03	-0.04	-1.03e-04	2.85e-06	0.0
716	72	1.31e-04	2.15e-03	-0.04	-1.06e-04	2.22e-06	0.0
717	1	3.54e-04	3.41e-03	-0.06	-1.68e-04	1.16e-05	0.0
717	2	3.06e-04	4.03e-03	-0.07	-1.99e-04	7.66e-06	0.0
717	13	3.11e-03	3.86e-03	-0.05	-1.45e-04	3.16e-05	0.0
717	17	3.22e-03	3.52e-03	-0.05	-1.44e-04	3.16e-05	0.0
717	21	9.62e-04	5.54e-03	-0.05	-1.42e-04	1.32e-05	0.0
717	45	4.79e-03	4.59e-03	-0.06	-1.54e-04	4.50e-05	0.0
717	49	4.95e-03	4.05e-03	-0.06	-1.53e-04	4.50e-05	0.0
717	53	1.37e-03	7.26e-03	-0.05	-1.49e-04	1.58e-05	0.0
717	69	2.69e-04	2.61e-03	-0.05	-1.29e-04	8.78e-06	0.0
717	70	2.37e-04	3.03e-03	-0.05	-1.50e-04	6.14e-06	0.0
717	71	2.69e-04	2.61e-03	-0.05	-1.29e-04	8.78e-06	0.0
717	72	2.63e-04	2.70e-03	-0.05	-1.33e-04	8.25e-06	0.0
718	1	6.09e-04	3.91e-03	-0.07	-1.93e-04	2.30e-05	0.0
718	2	5.93e-04	4.64e-03	-0.08	-2.29e-04	2.04e-05	0.0
718	13	3.52e-03	4.27e-03	-0.06	-1.65e-04	4.81e-05	0.0
718	17	3.63e-03	3.93e-03	-0.06	-1.64e-04	4.82e-05	0.0
718	21	1.19e-03	5.99e-03	-0.06	-1.65e-04	2.52e-05	0.0
718	45	5.32e-03	5.02e-03	-0.06	-1.76e-04	6.61e-05	0.0
718	49	5.50e-03	4.47e-03	-0.06	-1.73e-04	6.62e-05	0.0
718	53	1.62e-03	7.75e-03	-0.06	-1.75e-04	2.96e-05	0.0
718	69	4.66e-04	3.00e-03	-0.06	-1.48e-04	1.76e-05	0.0
718	70	4.55e-04	3.49e-03	-0.06	-1.72e-04	1.58e-05	0.0
718	71	4.66e-04	3.00e-03	-0.06	-1.48e-04	1.76e-05	0.0
718	72	4.64e-04	3.10e-03	-0.06	-1.53e-04	1.72e-05	0.0
719	2	-4.44e-04	-6.10e-03	-0.10	2.93e-04	-2.96e-05	0.0
719	11	-2.85e-03	-3.48e-03	-0.07	1.75e-04	-2.15e-05	0.0
719	24	-1.13e-03	-6.78e-03	-0.07	2.07e-04	-2.15e-05	0.0
719	43	-4.38e-03	-3.33e-03	-0.07	1.72e-04	-2.38e-05	0.0
719	56	-1.64e-03	-8.59e-03	-0.07	2.23e-04	-2.37e-05	0.0
719	70	-3.30e-04	-4.56e-03	-0.07	2.19e-04	-2.21e-05	0.0
719	72	-2.76e-04	-3.89e-03	-0.07	1.87e-04	-1.86e-05	0.0
720	2	1.10e-04	-6.19e-03	-0.09	2.95e-04	-8.52e-06	0.0
720	10	2.66e-03	-4.07e-03	-0.06	1.87e-04	0.0	0.0
720	24	-7.42e-04	-6.77e-03	-0.06	2.05e-04	-5.25e-06	0.0
720	26	6.88e-04	-6.77e-03	-0.06	2.05e-04	-2.84e-06	0.0
720	42	4.19e-03	-4.24e-03	-0.06	1.90e-04	3.15e-06	0.0
720	56	-1.22e-03	-8.52e-03	-0.07	2.19e-04	-5.34e-06	0.0
720	58	1.06e-03	-8.53e-03	-0.07	2.20e-04	-1.50e-06	0.0
720	70	8.25e-05	-4.62e-03	-0.07	2.20e-04	-6.35e-06	0.0
720	72	7.03e-05	-3.96e-03	-0.06	1.89e-04	-5.37e-06	0.0
721	2	2.75e-05	-4.99e-03	-0.08	2.43e-04	-5.13e-06	0.0
721	10	2.53e-03	-3.29e-03	-0.05	1.53e-04	0.0	0.0
721	24	-7.67e-04	-5.84e-03	-0.06	1.65e-04	-2.84e-06	0.0
721	42	4.00e-03	-3.41e-03	-0.05	1.54e-04	1.22e-06	0.0
721	56	-1.23e-03	-7.46e-03	-0.06	1.73e-04	-2.77e-06	0.0
721	70	2.13e-05	-3.73e-03	-0.06	1.82e-04	-3.81e-06	0.0
721	72	2.09e-05	-3.21e-03	-0.05	1.57e-04	-3.12e-06	0.0
722	2	1.22e-04	-3.97e-03	-0.07	1.95e-04	0.0	0.0
722	10	2.51e-03	-2.65e-03	-0.05	1.22e-04	2.07e-06	0.0
722	24	-6.82e-04	-5.11e-03	-0.05	1.30e-04	1.12e-06	0.0
722	42	3.95e-03	-2.75e-03	-0.05	1.23e-04	2.88e-06	0.0
722	56	-1.13e-03	-6.67e-03	-0.05	1.35e-04	1.38e-06	0.0
722	70	9.22e-05	-2.97e-03	-0.05	1.45e-04	0.0	0.0
722	72	8.11e-05	-2.56e-03	-0.05	1.26e-04	0.0	0.0
723	2	1.75e-04	-2.91e-03	-0.06	1.43e-04	3.70e-06	0.0

723	10	2.49e-03	-1.97e-03	-0.04	8.91e-05	2.83e-06	0.0
723	24	-6.29e-04	-4.38e-03	-0.04	9.41e-05	2.71e-06	0.0
723	42	3.89e-03	-2.07e-03	-0.04	8.93e-05	3.12e-06	0.0
723	56	-1.06e-03	-5.90e-03	-0.04	9.73e-05	2.93e-06	0.0
723	70	1.31e-04	-2.18e-03	-0.04	1.07e-04	2.78e-06	0.0
723	72	1.13e-04	-1.88e-03	-0.04	9.23e-05	2.44e-06	0.0
724	2	1.97e-04	-1.83e-03	-0.05	8.99e-05	4.79e-06	0.0
724	8	-2.19e-03	-2.13e-03	-0.04	5.74e-05	3.18e-06	0.0
724	10	2.46e-03	-1.30e-03	-0.04	5.60e-05	2.87e-06	0.0
724	24	-5.94e-04	-3.66e-03	-0.04	5.89e-05	3.27e-06	0.0
724	40	-3.55e-03	-2.71e-03	-0.04	5.83e-05	3.31e-06	0.0
724	42	3.83e-03	-1.39e-03	-0.04	5.60e-05	2.82e-06	0.0
724	56	-1.02e-03	-5.15e-03	-0.04	6.07e-05	3.45e-06	0.0
724	70	1.47e-04	-1.37e-03	-0.04	6.73e-05	3.59e-06	0.0
724	72	1.27e-04	-1.18e-03	-0.04	5.82e-05	3.08e-06	0.0
725	2	2.05e-04	-7.47e-04	-0.05	3.70e-05	5.15e-06	0.0
725	10	2.42e-03	-6.24e-04	-0.04	2.30e-05	2.81e-06	0.0
725	12	-2.14e-03	-1.13e-03	-0.04	2.40e-05	3.51e-06	0.0
725	24	-5.69e-04	-2.97e-03	-0.04	2.48e-05	3.34e-06	0.0
725	42	3.77e-03	-7.17e-04	-0.04	2.30e-05	2.62e-06	0.0
725	44	-3.48e-03	-1.53e-03	-0.04	2.46e-05	3.73e-06	0.0
725	56	-9.79e-04	-4.44e-03	-0.04	2.59e-05	3.46e-06	0.0
725	70	1.54e-04	-5.59e-04	-0.04	2.77e-05	3.85e-06	0.0
725	72	1.32e-04	-4.83e-04	-0.04	2.40e-05	3.29e-06	0.0
726	2	2.08e-04	3.31e-04	-0.05	-1.57e-05	5.24e-06	0.0
726	15	-2.15e-03	1.18e-03	-0.04	-1.06e-05	3.60e-06	0.0
726	17	2.41e-03	3.69e-04	-0.04	-9.84e-06	2.83e-06	0.0
726	21	8.02e-04	2.70e-03	-0.04	-1.13e-05	3.14e-06	0.0
726	47	-3.50e-03	1.76e-03	-0.04	-1.11e-05	3.84e-06	0.0
726	49	3.76e-03	4.64e-04	-0.04	-9.87e-06	2.61e-06	0.0
726	53	1.20e-03	4.17e-03	-0.04	-1.22e-05	3.11e-06	0.0
726	70	1.56e-04	2.47e-04	-0.04	-1.18e-05	3.92e-06	0.0
726	72	1.33e-04	2.14e-04	-0.04	-1.02e-05	3.34e-06	0.0
727	2	2.07e-04	1.41e-03	-0.05	-6.86e-05	5.15e-06	0.0
727	15	-2.18e-03	1.86e-03	-0.04	-4.39e-05	3.45e-06	0.0
727	17	2.45e-03	1.04e-03	-0.04	-4.27e-05	2.99e-06	0.0
727	27	-5.80e-04	3.39e-03	-0.04	-4.50e-05	3.46e-06	0.0
727	47	-3.54e-03	2.44e-03	-0.04	-4.46e-05	3.62e-06	0.0
727	49	3.82e-03	1.13e-03	-0.04	-4.27e-05	2.89e-06	0.0
727	59	-9.97e-04	4.87e-03	-0.04	-4.64e-05	3.64e-06	0.0
727	70	1.55e-04	1.05e-03	-0.04	-5.13e-05	3.86e-06	0.0
727	72	1.33e-04	9.11e-04	-0.04	-4.44e-05	3.30e-06	0.0
728	2	1.98e-04	2.49e-03	-0.05	-1.21e-04	4.61e-06	0.0
728	15	-2.21e-03	2.54e-03	-0.04	-7.74e-05	2.79e-06	0.0
728	17	2.49e-03	1.71e-03	-0.04	-7.57e-05	3.18e-06	0.0
728	27	-6.06e-04	4.10e-03	-0.04	-7.98e-05	3.26e-06	0.0
728	47	-3.59e-03	3.13e-03	-0.04	-7.85e-05	2.74e-06	0.0
728	49	3.89e-03	1.81e-03	-0.04	-7.59e-05	3.36e-06	0.0
728	59	-1.04e-03	5.61e-03	-0.04	-8.23e-05	3.48e-06	0.0
728	70	1.49e-04	1.86e-03	-0.04	-9.08e-05	3.46e-06	0.0
728	72	1.28e-04	1.61e-03	-0.04	-7.85e-05	2.99e-06	0.0
729	2	1.71e-04	3.57e-03	-0.06	-1.74e-04	2.95e-06	0.0
729	17	2.53e-03	2.39e-03	-0.04	-1.09e-04	2.97e-06	0.0
729	27	-6.43e-04	4.83e-03	-0.05	-1.15e-04	2.39e-06	0.0
729	49	3.95e-03	2.50e-03	-0.04	-1.09e-04	3.59e-06	0.0
729	59	-1.08e-03	6.37e-03	-0.05	-1.20e-04	2.67e-06	0.0
729	70	1.29e-04	2.67e-03	-0.05	-1.30e-04	2.22e-06	0.0
729	72	1.12e-04	2.30e-03	-0.05	-1.12e-04	1.98e-06	0.0
730	2	1.28e-04	4.62e-03	-0.07	-2.25e-04	0.0	0.0
730	17	2.56e-03	3.05e-03	-0.05	-1.41e-04	1.80e-06	0.0
730	27	-6.94e-04	5.56e-03	-0.05	-1.51e-04	0.0	0.0
730	49	4.03e-03	3.17e-03	-0.05	-1.42e-04	3.03e-06	0.0
730	59	-1.15e-03	7.16e-03	-0.05	-1.58e-04	0.0	0.0
730	70	9.62e-05	3.45e-03	-0.05	-1.68e-04	0.0	0.0
730	72	8.46e-05	2.97e-03	-0.05	-1.45e-04	0.0	0.0
731	2	3.45e-04	5.81e-03	-0.08	-2.78e-04	1.49e-06	0.0
731	17	2.78e-03	3.83e-03	-0.06	-1.76e-04	5.53e-06	0.0
731	21	8.33e-04	6.46e-03	-0.06	-1.92e-04	3.79e-06	0.0
731	27	-5.88e-04	6.45e-03	-0.06	-1.91e-04	1.76e-06	0.0
731	49	4.30e-03	3.98e-03	-0.06	-1.79e-04	8.21e-06	0.0
731	53	1.20e-03	8.16e-03	-0.06	-2.03e-04	5.45e-06	0.0
731	59	-1.06e-03	8.15e-03	-0.06	-2.03e-04	2.22e-06	0.0
731	70	2.58e-04	4.34e-03	-0.06	-2.08e-04	1.13e-06	0.0
731	72	2.20e-04	3.73e-03	-0.06	-1.79e-04	1.01e-06	0.0
732	2	-4.50e-04	6.07e-03	-0.10	-2.92e-04	-2.98e-05	0.0
732	20	-2.84e-03	3.47e-03	-0.07	-1.75e-04	-2.13e-05	0.0

732	27	-1.14e-03	6.76e-03	-0.07	-2.06e-04	-2.18e-05	0.0
732	52	-4.36e-03	3.33e-03	-0.07	-1.72e-04	-2.34e-05	0.0
732	59	-1.65e-03	8.56e-03	-0.07	-2.22e-04	-2.41e-05	0.0
732	70	-3.35e-04	4.53e-03	-0.07	-2.18e-04	-2.22e-05	0.0
732	72	-2.80e-04	3.87e-03	-0.07	-1.87e-04	-1.87e-05	0.0
733	2	-9.74e-04	-5.35e-03	-0.10	2.61e-04	-5.70e-05	0.0
733	11	-3.10e-03	-3.07e-03	-0.07	1.56e-04	-3.30e-05	0.0
733	24	-1.46e-03	-6.21e-03	-0.07	1.82e-04	-3.84e-05	0.0
733	43	-4.58e-03	-2.94e-03	-0.07	1.54e-04	-3.22e-05	0.0
733	56	-1.97e-03	-7.92e-03	-0.07	1.94e-04	-4.08e-05	0.0
733	70	-7.26e-04	-4.00e-03	-0.07	1.95e-04	-4.25e-05	0.0
733	72	-6.15e-04	-3.43e-03	-0.07	1.68e-04	-3.61e-05	0.0
734	2	-7.37e-04	-5.23e-03	-0.09	2.56e-04	-4.48e-05	0.0
734	11	-2.93e-03	-3.01e-03	-0.06	1.54e-04	-2.59e-05	0.0
734	24	-1.27e-03	-6.10e-03	-0.06	1.77e-04	-2.92e-05	0.0
734	43	-4.39e-03	-2.89e-03	-0.06	1.51e-04	-2.52e-05	0.0
734	56	-1.75e-03	-7.79e-03	-0.06	1.87e-04	-3.04e-05	0.0
734	70	-5.50e-04	-3.91e-03	-0.07	1.91e-04	-3.35e-05	0.0
734	72	-4.67e-04	-3.36e-03	-0.06	1.65e-04	-2.84e-05	0.0
735	2	-3.99e-04	-4.66e-03	-0.08	2.28e-04	-2.59e-05	0.0
735	11	-2.70e-03	-2.68e-03	-0.05	1.38e-04	-1.59e-05	0.0
735	24	-1.02e-03	-5.65e-03	-0.05	1.55e-04	-1.50e-05	0.0
735	26	3.58e-04	-5.65e-03	-0.05	1.56e-04	-1.51e-05	0.0
735	43	-4.14e-03	-2.56e-03	-0.05	1.36e-04	-1.60e-05	0.0
735	56	-1.47e-03	-7.28e-03	-0.06	1.64e-04	-1.45e-05	0.0
735	58	7.14e-04	-7.29e-03	-0.06	1.64e-04	-1.47e-05	0.0
735	70	-2.98e-04	-3.48e-03	-0.06	1.71e-04	-1.94e-05	0.0
735	72	-2.53e-04	-3.00e-03	-0.05	1.47e-04	-1.65e-05	0.0
736	2	-1.60e-04	-3.81e-03	-0.06	1.87e-04	-1.32e-05	0.0
736	11	-2.51e-03	-2.18e-03	-0.05	1.14e-04	-8.02e-06	0.0
736	24	-8.49e-04	-5.03e-03	-0.05	1.25e-04	-7.18e-06	0.0
736	43	-3.93e-03	-2.08e-03	-0.05	1.13e-04	-7.99e-06	0.0
736	56	-1.29e-03	-6.60e-03	-0.05	1.30e-04	-6.67e-06	0.0
736	70	-1.19e-04	-2.85e-03	-0.05	1.40e-04	-9.87e-06	0.0
736	72	-1.01e-04	-2.46e-03	-0.05	1.21e-04	-8.42e-06	0.0
737	2	-1.96e-05	-2.83e-03	-0.06	1.39e-04	-6.01e-06	0.0
737	11	-2.38e-03	-1.60e-03	-0.04	8.55e-05	-3.37e-06	0.0
737	24	-7.44e-04	-4.35e-03	-0.04	9.19e-05	-2.97e-06	0.0
737	43	-3.78e-03	-1.51e-03	-0.04	8.50e-05	-3.19e-06	0.0
737	56	-1.18e-03	-5.88e-03	-0.04	9.52e-05	-2.56e-06	0.0
737	70	-1.44e-05	-2.11e-03	-0.04	1.04e-04	-4.49e-06	0.0
737	72	-1.20e-05	-1.82e-03	-0.04	8.99e-05	-3.85e-06	0.0
738	2	5.62e-05	-1.79e-03	-0.05	8.82e-05	-2.23e-06	0.0
738	8	-2.27e-03	-2.13e-03	-0.04	5.62e-05	0.0	0.0
738	10	2.36e-03	-1.25e-03	-0.04	5.52e-05	-1.92e-06	0.0
738	24	-6.79e-04	-3.66e-03	-0.04	5.81e-05	0.0	0.0
738	40	-3.63e-03	-2.72e-03	-0.04	5.70e-05	0.0	0.0
738	42	3.74e-03	-1.34e-03	-0.04	5.54e-05	-2.23e-06	0.0
738	56	-1.10e-03	-5.16e-03	-0.04	5.99e-05	0.0	0.0
738	70	4.21e-05	-1.34e-03	-0.04	6.60e-05	-1.67e-06	0.0
738	72	3.58e-05	-1.16e-03	-0.04	5.71e-05	-1.46e-06	0.0
739	2	9.17e-05	-7.35e-04	-0.05	3.64e-05	0.0	0.0
739	10	2.35e-03	-5.96e-04	-0.04	2.28e-05	-1.03e-06	0.0
739	12	-2.21e-03	-1.14e-03	-0.04	2.36e-05	0.0	0.0
739	24	-6.38e-04	-2.98e-03	-0.04	2.46e-05	0.0	0.0
739	42	3.70e-03	-6.76e-04	-0.04	2.29e-05	-1.42e-06	0.0
739	44	-3.55e-03	-1.55e-03	-0.04	2.41e-05	0.0	0.0
739	56	-1.05e-03	-4.46e-03	-0.04	2.57e-05	0.0	0.0
739	70	6.86e-05	-5.49e-04	-0.04	2.72e-05	0.0	0.0
739	72	5.80e-05	-4.75e-04	-0.04	2.36e-05	0.0	0.0
740	2	9.94e-05	3.24e-04	-0.05	-1.56e-05	0.0	0.0
740	15	-2.22e-03	1.20e-03	-0.04	-1.05e-05	0.0	0.0
740	17	2.34e-03	3.44e-04	-0.04	-9.85e-06	0.0	0.0
740	21	7.34e-04	2.72e-03	-0.04	-1.14e-05	0.0	0.0
740	47	-3.56e-03	1.79e-03	-0.04	-1.10e-05	0.0	0.0
740	49	3.69e-03	4.27e-04	-0.04	-9.93e-06	-1.26e-06	0.0
740	53	1.13e-03	4.20e-03	-0.04	-1.24e-05	0.0	0.0
740	70	7.43e-05	2.43e-04	-0.04	-1.17e-05	0.0	0.0
740	72	6.29e-05	2.10e-04	-0.04	-1.01e-05	0.0	0.0
741	2	8.16e-05	1.38e-03	-0.05	-6.75e-05	-1.16e-06	0.0
741	15	-2.25e-03	1.87e-03	-0.04	-4.31e-05	0.0	0.0
741	17	2.37e-03	1.00e-03	-0.04	-4.23e-05	-1.33e-06	0.0
741	27	-6.56e-04	3.39e-03	-0.04	-4.46e-05	0.0	0.0
741	47	-3.61e-03	2.46e-03	-0.04	-4.38e-05	0.0	0.0
741	49	3.73e-03	1.09e-03	-0.04	-4.24e-05	-1.66e-06	0.0
741	59	-1.07e-03	4.88e-03	-0.04	-4.60e-05	0.0	0.0

741	70	6.11e-05	1.03e-03	-0.04	-5.05e-05	0.0	0.0
741	72	5.18e-05	8.93e-04	-0.04	-4.37e-05	0.0	0.0
742	2	3.08e-05	2.43e-03	-0.05	-1.19e-04	-3.84e-06	0.0
742	15	-2.31e-03	2.52e-03	-0.04	-7.56e-05	-1.71e-06	0.0
742	17	2.38e-03	1.66e-03	-0.04	-7.46e-05	-2.76e-06	0.0
742	27	-7.06e-04	4.08e-03	-0.04	-7.84e-05	-1.67e-06	0.0
742	47	-3.68e-03	3.12e-03	-0.04	-7.65e-05	-1.33e-06	0.0
742	49	3.77e-03	1.75e-03	-0.04	-7.50e-05	-2.99e-06	0.0
742	59	-1.13e-03	5.60e-03	-0.04	-8.10e-05	-1.26e-06	0.0
742	70	2.32e-05	1.81e-03	-0.04	-8.89e-05	-2.87e-06	0.0
742	72	1.99e-05	1.57e-03	-0.04	-7.69e-05	-2.47e-06	0.0
743	2	-7.13e-05	3.43e-03	-0.06	-1.68e-04	-9.33e-06	0.0
743	20	-2.44e-03	1.96e-03	-0.04	-1.03e-04	-5.54e-06	0.0
743	21	5.82e-04	4.76e-03	-0.04	-1.12e-04	-5.01e-06	0.0
743	27	-7.87e-04	4.76e-03	-0.05	-1.12e-04	-4.78e-06	0.0
743	52	-3.86e-03	1.86e-03	-0.04	-1.02e-04	-5.45e-06	0.0
743	53	9.52e-04	6.32e-03	-0.05	-1.16e-04	-4.61e-06	0.0
743	59	-1.22e-03	6.32e-03	-0.05	-1.16e-04	-4.25e-06	0.0
743	70	-5.30e-05	2.57e-03	-0.05	-1.26e-04	-6.97e-06	0.0
743	72	-4.47e-05	2.22e-03	-0.04	-1.09e-04	-5.95e-06	0.0
744	2	-2.56e-04	4.34e-03	-0.07	-2.13e-04	-1.96e-05	0.0
744	20	-2.60e-03	2.50e-03	-0.05	-1.29e-04	-1.20e-05	0.0
744	21	4.55e-04	5.42e-03	-0.05	-1.44e-04	-1.11e-05	0.0
744	27	-9.18e-04	5.41e-03	-0.05	-1.44e-04	-1.10e-05	0.0
744	52	-4.04e-03	2.39e-03	-0.05	-1.27e-04	-1.20e-05	0.0
744	53	8.17e-04	7.02e-03	-0.05	-1.51e-04	-1.07e-05	0.0
744	59	-1.37e-03	7.02e-03	-0.05	-1.51e-04	-1.04e-05	0.0
744	70	-1.91e-04	3.25e-03	-0.05	-1.59e-04	-1.47e-05	0.0
744	72	-1.62e-04	2.80e-03	-0.05	-1.37e-04	-1.25e-05	0.0
745	2	-5.54e-04	5.04e-03	-0.08	-2.46e-04	-3.64e-05	0.0
745	20	-2.81e-03	2.90e-03	-0.06	-1.48e-04	-2.12e-05	0.0
745	27	-1.13e-03	5.94e-03	-0.06	-1.69e-04	-2.08e-05	0.0
745	52	-4.26e-03	2.78e-03	-0.06	-1.46e-04	-2.06e-05	0.0
745	59	-1.60e-03	7.61e-03	-0.06	-1.79e-04	-1.99e-05	0.0
745	70	-4.13e-04	3.77e-03	-0.06	-1.84e-04	-2.72e-05	0.0
745	72	-3.51e-04	3.24e-03	-0.06	-1.59e-04	-2.32e-05	0.0
746	2	-9.65e-04	5.31e-03	-0.10	-2.59e-04	-5.68e-05	0.0
746	20	-3.09e-03	3.06e-03	-0.07	-1.56e-04	-3.29e-05	0.0
746	27	-1.45e-03	6.18e-03	-0.07	-1.80e-04	-3.83e-05	0.0
746	52	-4.57e-03	2.93e-03	-0.07	-1.54e-04	-3.20e-05	0.0
746	59	-1.96e-03	7.89e-03	-0.07	-1.93e-04	-4.07e-05	0.0
746	70	-7.20e-04	3.97e-03	-0.07	-1.94e-04	-4.24e-05	0.0
746	72	-6.09e-04	3.41e-03	-0.07	-1.67e-04	-3.59e-05	0.0
747	2	-9.34e-04	-4.90e-03	-0.09	2.41e-04	-5.38e-05	0.0
747	11	-3.00e-03	-2.85e-03	-0.06	1.46e-04	-2.74e-05	0.0
747	24	-1.41e-03	-5.89e-03	-0.07	1.67e-04	-3.58e-05	0.0
747	43	-4.44e-03	-2.74e-03	-0.06	1.44e-04	-2.46e-05	0.0
747	56	-1.91e-03	-7.58e-03	-0.07	1.78e-04	-3.78e-05	0.0
747	70	-6.96e-04	-3.66e-03	-0.07	1.80e-04	-4.02e-05	0.0
747	72	-5.85e-04	-3.15e-03	-0.07	1.55e-04	-3.39e-05	0.0
748	2	-7.52e-04	-4.78e-03	-0.09	2.35e-04	-4.43e-05	0.0
748	11	-2.88e-03	-2.78e-03	-0.06	1.42e-04	-2.27e-05	0.0
748	24	-1.27e-03	-5.79e-03	-0.06	1.62e-04	-2.85e-05	0.0
748	43	-4.32e-03	-2.67e-03	-0.06	1.40e-04	-2.04e-05	0.0
748	56	-1.75e-03	-7.46e-03	-0.06	1.72e-04	-2.96e-05	0.0
748	70	-5.60e-04	-3.57e-03	-0.06	1.76e-04	-3.30e-05	0.0
748	72	-4.72e-04	-3.08e-03	-0.06	1.52e-04	-2.79e-05	0.0
749	2	-4.63e-04	-4.32e-03	-0.07	2.13e-04	-2.90e-05	0.0
749	11	-2.69e-03	-2.51e-03	-0.05	1.29e-04	-1.55e-05	0.0
749	24	-1.05e-03	-5.44e-03	-0.05	1.45e-04	-1.57e-05	0.0
749	43	-4.11e-03	-2.41e-03	-0.05	1.28e-04	-1.43e-05	0.0
749	56	-1.51e-03	-7.07e-03	-0.05	1.53e-04	-1.47e-05	0.0
749	70	-3.45e-04	-3.23e-03	-0.06	1.59e-04	-2.17e-05	0.0
749	72	-2.91e-04	-2.78e-03	-0.05	1.38e-04	-1.83e-05	0.0
750	2	-2.43e-04	-3.59e-03	-0.06	1.77e-04	-1.75e-05	0.0
750	11	-2.53e-03	-2.08e-03	-0.05	1.08e-04	-9.09e-06	0.0
750	24	-8.95e-04	-4.91e-03	-0.05	1.19e-04	-9.52e-06	0.0
750	43	-3.94e-03	-2.00e-03	-0.05	1.07e-04	-8.20e-06	0.0
750	56	-1.34e-03	-6.49e-03	-0.05	1.24e-04	-8.89e-06	0.0
750	70	-1.81e-04	-2.68e-03	-0.05	1.33e-04	-1.31e-05	0.0
750	72	-1.53e-04	-2.32e-03	-0.05	1.15e-04	-1.11e-05	0.0
751	2	-9.91e-05	-2.70e-03	-0.06	1.33e-04	-1.01e-05	0.0
751	11	-2.41e-03	-1.55e-03	-0.04	8.21e-05	-4.97e-06	0.0
751	24	-7.90e-04	-4.29e-03	-0.04	8.87e-05	-5.32e-06	0.0
751	43	-3.80e-03	-1.47e-03	-0.04	8.16e-05	-4.26e-06	0.0
751	56	-1.22e-03	-5.83e-03	-0.04	9.20e-05	-4.83e-06	0.0

751	70	-7.38e-05	-2.02e-03	-0.04	9.98e-05	-7.57e-06	0.0
751	72	-6.20e-05	-1.75e-03	-0.04	8.64e-05	-6.44e-06	0.0
752	2	-1.46e-05	-1.73e-03	-0.05	8.53e-05	-5.89e-06	0.0
752	8	-2.31e-03	-2.11e-03	-0.04	5.45e-05	-2.43e-06	0.0
752	11	-2.33e-03	-9.52e-04	-0.04	5.28e-05	-2.57e-06	0.0
752	24	-7.21e-04	-3.64e-03	-0.04	5.65e-05	-3.01e-06	0.0
752	40	-3.66e-03	-2.72e-03	-0.04	5.53e-05	-1.73e-06	0.0
752	43	-3.70e-03	-8.82e-04	-0.04	5.26e-05	-1.95e-06	0.0
752	56	-1.14e-03	-5.15e-03	-0.04	5.85e-05	-2.65e-06	0.0
752	70	-1.08e-05	-1.29e-03	-0.04	6.38e-05	-4.41e-06	0.0
752	72	-9.03e-06	-1.12e-03	-0.04	5.53e-05	-3.78e-06	0.0
753	2	2.70e-05	-7.12e-04	-0.05	3.53e-05	-3.85e-06	0.0
753	10	2.30e-03	-5.60e-04	-0.04	2.22e-05	-3.42e-06	0.0
753	12	-2.24e-03	-1.15e-03	-0.04	2.29e-05	-1.37e-06	0.0
753	24	-6.76e-04	-2.98e-03	-0.04	2.41e-05	-2.00e-06	0.0
753	42	3.65e-03	-6.27e-04	-0.04	2.22e-05	-4.01e-06	0.0
753	44	-3.58e-03	-1.57e-03	-0.04	2.35e-05	0.0	0.0
753	56	-1.08e-03	-4.48e-03	-0.04	2.54e-05	-1.76e-06	0.0
753	70	2.02e-05	-5.32e-04	-0.04	2.64e-05	-2.89e-06	0.0
753	72	1.69e-05	-4.61e-04	-0.04	2.29e-05	-2.51e-06	0.0
754	2	3.57e-05	3.14e-04	-0.05	-1.52e-05	-3.49e-06	0.0
754	15	-2.25e-03	1.22e-03	-0.04	-1.04e-05	-1.16e-06	0.0
754	17	2.30e-03	3.15e-04	-0.04	-9.65e-06	-3.20e-06	0.0
754	21	6.94e-04	2.73e-03	-0.04	-1.14e-05	-2.42e-06	0.0
754	47	-3.59e-03	1.82e-03	-0.04	-1.09e-05	0.0	0.0
754	49	3.64e-03	3.85e-04	-0.04	-9.75e-06	-3.79e-06	0.0
754	53	1.09e-03	4.23e-03	-0.04	-1.25e-05	-2.55e-06	0.0
754	70	2.67e-05	2.35e-04	-0.04	-1.14e-05	-2.62e-06	0.0
754	72	2.24e-05	2.03e-04	-0.04	-9.87e-06	-2.28e-06	0.0
755	2	1.32e-05	1.33e-03	-0.05	-6.55e-05	-4.72e-06	0.0
755	15	-2.29e-03	1.86e-03	-0.04	-4.20e-05	-1.76e-06	0.0
755	17	2.32e-03	9.52e-04	-0.04	-4.11e-05	-3.96e-06	0.0
755	27	-6.96e-04	3.38e-03	-0.04	-4.36e-05	-2.34e-06	0.0
755	47	-3.64e-03	2.47e-03	-0.04	-4.27e-05	-1.08e-06	0.0
755	49	3.68e-03	1.02e-03	-0.04	-4.12e-05	-4.57e-06	0.0
755	59	-1.11e-03	4.89e-03	-0.04	-4.52e-05	-2.00e-06	0.0
755	70	9.95e-06	9.98e-04	-0.04	-4.90e-05	-3.53e-06	0.0
755	72	8.43e-06	8.63e-04	-0.04	-4.25e-05	-3.05e-06	0.0
756	2	-4.70e-05	2.33e-03	-0.05	-1.15e-04	-7.92e-06	0.0
756	15	-2.34e-03	2.49e-03	-0.04	-7.30e-05	-3.46e-06	0.0
756	20	-2.37e-03	1.32e-03	-0.04	-7.07e-05	-3.68e-06	0.0
756	27	-7.51e-04	4.04e-03	-0.04	-7.60e-05	-4.02e-06	0.0
756	47	-3.71e-03	3.10e-03	-0.04	-7.40e-05	-2.66e-06	0.0
756	52	-3.76e-03	1.24e-03	-0.04	-7.03e-05	-3.00e-06	0.0
756	59	-1.18e-03	5.57e-03	-0.04	-7.87e-05	-3.55e-06	0.0
756	70	-3.49e-05	1.74e-03	-0.04	-8.57e-05	-5.92e-06	0.0
756	72	-2.92e-05	1.51e-03	-0.04	-7.42e-05	-5.05e-06	0.0
757	2	-1.60e-04	3.26e-03	-0.06	-1.60e-04	-1.39e-05	0.0
757	20	-2.47e-03	1.88e-03	-0.04	-9.84e-05	-7.02e-06	0.0
757	27	-8.36e-04	4.67e-03	-0.04	-1.07e-04	-7.41e-06	0.0
757	52	-3.88e-03	1.80e-03	-0.04	-9.76e-05	-6.17e-06	0.0
757	59	-1.27e-03	6.24e-03	-0.05	-1.12e-04	-6.81e-06	0.0
757	70	-1.19e-04	2.43e-03	-0.05	-1.20e-04	-1.04e-05	0.0
757	72	-9.99e-05	2.10e-03	-0.04	-1.04e-04	-8.83e-06	0.0
758	2	-3.45e-04	4.05e-03	-0.07	-2.00e-04	-2.39e-05	0.0
758	20	-2.61e-03	2.35e-03	-0.05	-1.22e-04	-1.25e-05	0.0
758	27	-9.69e-04	5.24e-03	-0.05	-1.35e-04	-1.30e-05	0.0
758	52	-4.03e-03	2.26e-03	-0.05	-1.21e-04	-1.14e-05	0.0
758	59	-1.42e-03	6.85e-03	-0.05	-1.42e-04	-1.22e-05	0.0
758	70	-2.57e-04	3.03e-03	-0.05	-1.49e-04	-1.78e-05	0.0
758	72	-2.16e-04	2.61e-03	-0.05	-1.29e-04	-1.51e-05	0.0
759	2	-6.09e-04	4.62e-03	-0.08	-2.27e-04	-3.79e-05	0.0
759	20	-2.79e-03	2.68e-03	-0.06	-1.38e-04	-1.94e-05	0.0
759	27	-1.16e-03	5.66e-03	-0.06	-1.56e-04	-2.39e-05	0.0
759	52	-4.22e-03	2.59e-03	-0.06	-1.36e-04	-1.73e-05	0.0
759	59	-1.63e-03	7.32e-03	-0.06	-1.65e-04	-2.45e-05	0.0
759	70	-4.54e-04	3.45e-03	-0.06	-1.70e-04	-2.83e-05	0.0
759	72	-3.82e-04	2.97e-03	-0.06	-1.47e-04	-2.39e-05	0.0
760	2	-9.17e-04	4.87e-03	-0.09	-2.39e-04	-5.36e-05	0.0
760	20	-2.99e-03	2.83e-03	-0.06	-1.45e-04	-2.74e-05	0.0
760	27	-1.40e-03	5.87e-03	-0.07	-1.66e-04	-3.56e-05	0.0
760	52	-4.43e-03	2.73e-03	-0.06	-1.43e-04	-2.46e-05	0.0
760	59	-1.90e-03	7.56e-03	-0.07	-1.76e-04	-3.76e-05	0.0
760	70	-6.83e-04	3.64e-03	-0.07	-1.79e-04	-4.00e-05	0.0
760	72	-5.74e-04	3.13e-03	-0.06	-1.54e-04	-3.37e-05	0.0
761	2	-5.31e-04	-4.61e-03	-0.09	2.28e-04	-3.30e-05	0.0

761	11	-2.72e-03	-2.72e-03	-0.06	1.39e-04	-1.30e-05	0.0
761	24	-1.13e-03	-5.69e-03	-0.06	1.58e-04	-2.15e-05	0.0
761	43	-4.15e-03	-2.65e-03	-0.06	1.38e-04	-9.37e-06	0.0
761	56	-1.61e-03	-7.37e-03	-0.07	1.67e-04	-2.28e-05	0.0
761	70	-3.94e-04	-3.45e-03	-0.07	1.71e-04	-2.45e-05	0.0
761	72	-3.21e-04	-2.98e-03	-0.06	1.47e-04	-2.02e-05	0.0
762	2	-4.36e-04	-4.50e-03	-0.08	2.23e-04	-2.80e-05	0.0
762	11	-2.66e-03	-2.66e-03	-0.06	1.36e-04	-1.10e-05	0.0
762	24	-1.05e-03	-5.60e-03	-0.06	1.53e-04	-1.77e-05	0.0
762	43	-4.09e-03	-2.58e-03	-0.06	1.35e-04	-8.02e-06	0.0
762	56	-1.53e-03	-7.26e-03	-0.06	1.62e-04	-1.86e-05	0.0
762	70	-3.23e-04	-3.36e-03	-0.06	1.66e-04	-2.08e-05	0.0
762	72	-2.63e-04	-2.90e-03	-0.06	1.44e-04	-1.71e-05	0.0
763	2	-2.83e-04	-4.09e-03	-0.07	2.02e-04	-2.00e-05	0.0
763	11	-2.56e-03	-2.41e-03	-0.05	1.24e-04	-7.80e-06	0.0
763	24	-9.36e-04	-5.30e-03	-0.05	1.38e-04	-9.12e-06	0.0
763	43	-3.97e-03	-2.34e-03	-0.05	1.23e-04	-5.57e-06	0.0
763	56	-1.39e-03	-6.92e-03	-0.05	1.45e-04	-7.66e-06	0.0
763	70	-2.10e-04	-3.06e-03	-0.06	1.51e-04	-1.48e-05	0.0
763	72	-1.70e-04	-2.64e-03	-0.05	1.31e-04	-1.23e-05	0.0
764	2	-1.59e-04	-3.43e-03	-0.06	1.70e-04	-1.35e-05	0.0
764	11	-2.46e-03	-2.02e-03	-0.05	1.05e-04	-5.64e-06	0.0
764	24	-8.41e-04	-4.82e-03	-0.05	1.14e-04	-6.47e-06	0.0
764	43	-3.86e-03	-1.95e-03	-0.05	1.04e-04	-4.31e-06	0.0
764	56	-1.28e-03	-6.41e-03	-0.05	1.20e-04	-5.65e-06	0.0
764	70	-1.17e-04	-2.56e-03	-0.05	1.27e-04	-1.00e-05	0.0
764	72	-9.44e-05	-2.22e-03	-0.05	1.10e-04	-8.31e-06	0.0
765	2	-7.00e-05	-2.60e-03	-0.06	1.29e-04	-8.93e-06	0.0
765	8	-2.35e-03	-2.70e-03	-0.04	8.26e-05	-3.37e-06	0.0
765	11	-2.39e-03	-1.52e-03	-0.04	7.97e-05	-3.56e-06	0.0
765	24	-7.71e-04	-4.25e-03	-0.04	8.60e-05	-4.42e-06	0.0
765	40	-3.72e-03	-3.34e-03	-0.04	8.40e-05	-2.27e-06	0.0
765	43	-3.77e-03	-1.46e-03	-0.04	7.95e-05	-2.56e-06	0.0
765	56	-1.20e-03	-5.80e-03	-0.04	8.94e-05	-3.93e-06	0.0
765	70	-5.16e-05	-1.94e-03	-0.04	9.62e-05	-6.65e-06	0.0
765	72	-4.06e-05	-1.68e-03	-0.04	8.34e-05	-5.53e-06	0.0
766	2	-1.37e-05	-1.67e-03	-0.05	8.27e-05	-6.07e-06	0.0
766	8	-2.30e-03	-2.11e-03	-0.04	5.32e-05	-2.19e-06	0.0
766	11	-2.32e-03	-9.45e-04	-0.04	5.14e-05	-2.28e-06	0.0
766	24	-7.19e-04	-3.63e-03	-0.04	5.51e-05	-3.06e-06	0.0
766	40	-3.66e-03	-2.74e-03	-0.04	5.42e-05	-1.34e-06	0.0
766	43	-3.69e-03	-8.91e-04	-0.04	5.14e-05	-1.48e-06	0.0
766	56	-1.14e-03	-5.15e-03	-0.04	5.72e-05	-2.73e-06	0.0
766	70	-9.94e-06	-1.25e-03	-0.04	6.18e-05	-4.53e-06	0.0
766	72	-6.68e-06	-1.08e-03	-0.04	5.36e-05	-3.80e-06	0.0
767	2	1.58e-05	-6.91e-04	-0.05	3.43e-05	-4.62e-06	0.0
767	8	-2.26e-03	-1.49e-03	-0.04	2.25e-05	-1.59e-06	0.0
767	10	2.29e-03	-5.24e-04	-0.04	2.15e-05	-3.98e-06	0.0
767	24	-6.82e-04	-2.99e-03	-0.04	2.37e-05	-2.39e-06	0.0
767	40	-3.61e-03	-2.11e-03	-0.04	2.32e-05	0.0	0.0
767	42	3.64e-03	-5.76e-04	-0.04	2.15e-05	-4.68e-06	0.0
767	56	-1.09e-03	-4.50e-03	-0.04	2.50e-05	-2.15e-06	0.0
767	70	1.19e-05	-5.17e-04	-0.04	2.57e-05	-3.46e-06	0.0
767	72	1.11e-05	-4.48e-04	-0.04	2.23e-05	-2.93e-06	0.0
768	2	2.23e-05	3.03e-04	-0.05	-1.48e-05	-4.36e-06	0.0
768	15	-2.26e-03	1.24e-03	-0.04	-1.02e-05	-1.47e-06	0.0
768	17	2.29e-03	2.86e-04	-0.04	-9.39e-06	-3.82e-06	0.0
768	21	6.87e-04	2.74e-03	-0.04	-1.13e-05	-2.96e-06	0.0
768	47	-3.60e-03	1.86e-03	-0.04	-1.08e-05	0.0	0.0
768	49	3.63e-03	3.42e-04	-0.03	-9.46e-06	-4.51e-06	0.0
768	53	1.08e-03	4.25e-03	-0.04	-1.25e-05	-3.13e-06	0.0
768	70	1.67e-05	2.27e-04	-0.04	-1.11e-05	-3.27e-06	0.0
768	72	1.51e-05	1.97e-04	-0.04	-9.63e-06	-2.78e-06	0.0
769	1	7.70e-06	1.05e-03	-0.05	-5.18e-05	-4.12e-06	0.0
769	2	6.54e-06	1.29e-03	-0.05	-6.36e-05	-5.28e-06	0.0
769	15	-2.29e-03	1.86e-03	-0.04	-4.11e-05	-1.81e-06	0.0
769	17	2.31e-03	9.02e-04	-0.04	-3.98e-05	-4.47e-06	0.0
769	27	-6.99e-04	3.38e-03	-0.04	-4.26e-05	-2.65e-06	0.0
769	47	-3.64e-03	2.49e-03	-0.04	-4.19e-05	-1.01e-06	0.0
769	49	3.68e-03	9.58e-04	-0.04	-3.99e-05	-5.24e-06	0.0
769	59	-1.11e-03	4.89e-03	-0.04	-4.43e-05	-2.33e-06	0.0
769	69	5.87e-06	8.04e-04	-0.04	-3.97e-05	-3.18e-06	0.0
769	70	5.10e-06	9.65e-04	-0.04	-4.76e-05	-3.95e-06	0.0
769	71	5.87e-06	8.04e-04	-0.04	-3.97e-05	-3.18e-06	0.0
769	72	5.72e-06	8.37e-04	-0.04	-4.13e-05	-3.33e-06	0.0
770	2	-3.43e-05	2.24e-03	-0.05	-1.11e-04	-7.53e-06	0.0

770	15	-2.33e-03	2.47e-03	-0.04	-7.11e-05	-2.73e-06	0.0
770	20	-2.36e-03	1.29e-03	-0.04	-6.88e-05	-2.86e-06	0.0
770	27	-7.42e-04	4.01e-03	-0.04	-7.39e-05	-3.72e-06	0.0
770	47	-3.69e-03	3.10e-03	-0.04	-7.23e-05	-1.71e-06	0.0
770	52	-3.74e-03	1.24e-03	-0.04	-6.86e-05	-1.92e-06	0.0
770	59	-1.17e-03	5.54e-03	-0.04	-7.67e-05	-3.29e-06	0.0
770	70	-2.51e-05	1.68e-03	-0.04	-8.28e-05	-5.62e-06	0.0
770	72	-1.88e-05	1.45e-03	-0.04	-7.18e-05	-4.69e-06	0.0
771	2	-1.06e-04	3.12e-03	-0.06	-1.54e-04	-1.14e-05	0.0
771	20	-2.43e-03	1.83e-03	-0.04	-9.52e-05	-4.60e-06	0.0
771	27	-8.02e-04	4.60e-03	-0.04	-1.03e-04	-5.53e-06	0.0
771	52	-3.82e-03	1.76e-03	-0.04	-9.48e-05	-3.37e-06	0.0
771	59	-1.24e-03	6.17e-03	-0.04	-1.08e-04	-4.85e-06	0.0
771	70	-7.81e-05	2.33e-03	-0.05	-1.15e-04	-8.50e-06	0.0
771	72	-6.19e-05	2.02e-03	-0.04	-9.98e-05	-7.04e-06	0.0
772	2	-2.13e-04	3.85e-03	-0.07	-1.90e-04	-1.72e-05	0.0
772	20	-2.51e-03	2.27e-03	-0.05	-1.17e-04	-6.64e-06	0.0
772	27	-8.84e-04	5.12e-03	-0.05	-1.29e-04	-7.99e-06	0.0
772	52	-3.92e-03	2.20e-03	-0.05	-1.16e-04	-4.67e-06	0.0
772	59	-1.33e-03	6.73e-03	-0.05	-1.35e-04	-6.81e-06	0.0
772	70	-1.58e-04	2.88e-03	-0.05	-1.42e-04	-1.28e-05	0.0
772	72	-1.27e-04	2.49e-03	-0.05	-1.23e-04	-1.06e-05	0.0
773	2	-3.54e-04	4.36e-03	-0.08	-2.15e-04	-2.46e-05	0.0
773	20	-2.61e-03	2.57e-03	-0.06	-1.32e-04	-9.73e-06	0.0
773	27	-9.91e-04	5.49e-03	-0.06	-1.47e-04	-1.53e-05	0.0
773	52	-4.03e-03	2.50e-03	-0.06	-1.31e-04	-7.06e-06	0.0
773	59	-1.46e-03	7.14e-03	-0.06	-1.56e-04	-1.59e-05	0.0
773	70	-2.62e-04	3.26e-03	-0.06	-1.61e-04	-1.83e-05	0.0
773	72	-2.13e-04	2.81e-03	-0.06	-1.39e-04	-1.51e-05	0.0
774	2	-5.12e-04	4.59e-03	-0.09	-2.27e-04	-3.27e-05	0.0
774	20	-2.71e-03	2.71e-03	-0.06	-1.39e-04	-1.30e-05	0.0
774	27	-1.11e-03	5.68e-03	-0.06	-1.56e-04	-2.13e-05	0.0
774	52	-4.14e-03	2.63e-03	-0.06	-1.37e-04	-9.47e-06	0.0
774	59	-1.60e-03	7.35e-03	-0.07	-1.66e-04	-2.27e-05	0.0
774	70	-3.79e-04	3.43e-03	-0.07	-1.69e-04	-2.43e-05	0.0
774	72	-3.08e-04	2.96e-03	-0.06	-1.46e-04	-2.00e-05	0.0
775	1	5.18e-05	-3.66e-03	-0.08	1.82e-04	-1.98e-06	0.0
775	2	1.12e-05	-4.52e-03	-0.09	2.24e-04	-5.18e-06	0.0
775	10	2.47e-03	-2.90e-03	-0.06	1.40e-04	-7.24e-06	0.0
775	24	-7.62e-04	-5.65e-03	-0.06	1.55e-04	3.09e-06	0.0
775	42	3.90e-03	-2.95e-03	-0.06	1.41e-04	-1.06e-05	0.0
775	56	-1.23e-03	-7.32e-03	-0.07	1.64e-04	5.79e-06	0.0
775	69	4.00e-05	-2.81e-03	-0.06	1.39e-04	-1.52e-06	0.0
775	70	1.30e-05	-3.38e-03	-0.07	1.67e-04	-3.65e-06	0.0
775	71	4.00e-05	-2.81e-03	-0.06	1.39e-04	-1.52e-06	0.0
775	72	3.46e-05	-2.92e-03	-0.06	1.45e-04	-1.94e-06	0.0
776	1	4.49e-05	-3.58e-03	-0.08	1.77e-04	-2.38e-06	0.0
776	2	9.67e-06	-4.41e-03	-0.08	2.18e-04	-5.32e-06	0.0
776	10	2.46e-03	-2.83e-03	-0.06	1.37e-04	-6.66e-06	0.0
776	24	-7.59e-04	-5.56e-03	-0.06	1.50e-04	1.90e-06	0.0
776	42	3.89e-03	-2.88e-03	-0.06	1.37e-04	-9.50e-06	0.0
776	56	-1.23e-03	-7.22e-03	-0.06	1.59e-04	4.08e-06	0.0
776	69	3.47e-05	-2.74e-03	-0.06	1.36e-04	-1.83e-06	0.0
776	70	1.12e-05	-3.30e-03	-0.06	1.63e-04	-3.79e-06	0.0
776	71	3.47e-05	-2.74e-03	-0.06	1.36e-04	-1.83e-06	0.0
776	72	3.00e-05	-2.85e-03	-0.06	1.42e-04	-2.22e-06	0.0
777	1	3.36e-05	-3.26e-03	-0.07	1.61e-04	-2.99e-06	0.0
777	2	7.27e-06	-4.01e-03	-0.07	1.99e-04	-5.48e-06	0.0
777	10	2.43e-03	-2.58e-03	-0.05	1.24e-04	-5.88e-06	0.0
777	24	-7.52e-04	-5.26e-03	-0.05	1.36e-04	0.0	0.0
777	42	3.85e-03	-2.63e-03	-0.05	1.24e-04	-7.98e-06	0.0
777	56	-1.21e-03	-6.89e-03	-0.05	1.43e-04	1.70e-06	0.0
777	69	2.58e-05	-2.50e-03	-0.05	1.24e-04	-2.30e-06	0.0
777	70	8.30e-06	-3.00e-03	-0.05	1.49e-04	-3.96e-06	0.0
777	71	2.58e-05	-2.50e-03	-0.05	1.24e-04	-2.30e-06	0.0
777	72	2.23e-05	-2.60e-03	-0.05	1.29e-04	-2.64e-06	0.0
778	1	2.81e-05	-2.74e-03	-0.06	1.36e-04	-3.24e-06	0.0
778	2	1.11e-05	-3.37e-03	-0.06	1.67e-04	-5.24e-06	0.0
778	10	2.40e-03	-2.17e-03	-0.04	1.04e-04	-4.98e-06	0.0
778	24	-7.38e-04	-4.80e-03	-0.05	1.13e-04	0.0	0.0
778	42	3.81e-03	-2.22e-03	-0.04	1.04e-04	-6.44e-06	0.0
778	56	-1.19e-03	-6.40e-03	-0.05	1.18e-04	0.0	0.0
778	69	2.15e-05	-2.10e-03	-0.05	1.04e-04	-2.50e-06	0.0
778	70	1.02e-05	-2.52e-03	-0.05	1.25e-04	-3.84e-06	0.0
778	71	2.15e-05	-2.10e-03	-0.05	1.04e-04	-2.50e-06	0.0
778	72	1.92e-05	-2.18e-03	-0.05	1.08e-04	-2.77e-06	0.0

779	1	2.95e-05	-2.08e-03	-0.05	1.03e-04	-3.10e-06	0.0
779	2	2.13e-05	-2.55e-03	-0.06	1.26e-04	-4.64e-06	0.0
779	8	-2.30e-03	-2.71e-03	-0.04	8.19e-05	0.0	0.0
779	10	2.38e-03	-1.66e-03	-0.04	7.89e-05	-4.11e-06	0.0
779	24	-7.17e-04	-4.24e-03	-0.04	8.48e-05	-2.37e-06	0.0
779	40	-3.67e-03	-3.37e-03	-0.04	8.36e-05	0.0	0.0
779	42	3.77e-03	-1.70e-03	-0.04	7.88e-05	-5.11e-06	0.0
779	56	-1.15e-03	-5.80e-03	-0.04	8.83e-05	-2.34e-06	0.0
779	69	2.25e-05	-1.59e-03	-0.04	7.90e-05	-2.40e-06	0.0
779	70	1.70e-05	-1.91e-03	-0.04	9.46e-05	-3.42e-06	0.0
779	71	2.25e-05	-1.59e-03	-0.04	7.90e-05	-2.40e-06	0.0
779	72	2.14e-05	-1.66e-03	-0.04	8.21e-05	-2.60e-06	0.0
780	1	3.42e-05	-1.34e-03	-0.05	6.63e-05	-2.82e-06	0.0
780	2	3.31e-05	-1.64e-03	-0.05	8.13e-05	-3.99e-06	0.0
780	8	-2.28e-03	-2.12e-03	-0.04	5.27e-05	0.0	0.0
780	10	2.35e-03	-1.09e-03	-0.04	5.07e-05	-3.45e-06	0.0
780	24	-6.91e-04	-3.63e-03	-0.04	5.44e-05	-1.64e-06	0.0
780	40	-3.63e-03	-2.77e-03	-0.04	5.39e-05	0.0	0.0
780	42	3.72e-03	-1.13e-03	-0.04	5.06e-05	-4.19e-06	0.0
780	56	-1.11e-03	-5.16e-03	-0.04	5.66e-05	-1.32e-06	0.0
780	69	2.61e-05	-1.03e-03	-0.04	5.09e-05	-2.18e-06	0.0
780	70	2.54e-05	-1.23e-03	-0.04	6.08e-05	-2.96e-06	0.0
780	71	2.61e-05	-1.03e-03	-0.04	5.09e-05	-2.18e-06	0.0
780	72	2.59e-05	-1.07e-03	-0.04	5.29e-05	-2.34e-06	0.0
781	2	4.18e-05	-6.81e-04	-0.05	3.37e-05	-3.55e-06	0.0
781	8	-2.25e-03	-1.51e-03	-0.04	2.23e-05	0.0	0.0
781	10	2.32e-03	-4.93e-04	-0.04	2.11e-05	-3.07e-06	0.0
781	24	-6.66e-04	-3.00e-03	-0.04	2.35e-05	-1.65e-06	0.0
781	40	-3.60e-03	-2.15e-03	-0.04	2.31e-05	0.0	0.0
781	42	3.67e-03	-5.31e-04	-0.04	2.11e-05	-3.69e-06	0.0
781	56	-1.08e-03	-4.52e-03	-0.04	2.48e-05	-1.44e-06	0.0
781	70	3.16e-05	-5.10e-04	-0.04	2.53e-05	-2.65e-06	0.0
781	72	2.99e-05	-4.43e-04	-0.04	2.20e-05	-2.14e-06	0.0
782	2	4.47e-05	2.97e-04	-0.05	-1.46e-05	-3.47e-06	0.0
782	15	-2.24e-03	1.26e-03	-0.04	-1.02e-05	0.0	0.0
782	17	2.31e-03	2.59e-04	-0.03	-9.19e-06	-3.00e-06	0.0
782	21	7.04e-04	2.76e-03	-0.04	-1.12e-05	-2.26e-06	0.0
782	47	-3.59e-03	1.90e-03	-0.04	-1.08e-05	0.0	0.0
782	49	3.66e-03	3.00e-04	-0.03	-9.21e-06	-3.60e-06	0.0
782	53	1.10e-03	4.27e-03	-0.04	-1.24e-05	-2.43e-06	0.0
782	70	3.37e-05	2.22e-04	-0.04	-1.09e-05	-2.59e-06	0.0
782	72	3.15e-05	1.93e-04	-0.04	-9.51e-06	-2.11e-06	0.0
783	2	4.15e-05	1.27e-03	-0.05	-6.26e-05	-3.78e-06	0.0
783	15	-2.27e-03	1.88e-03	-0.04	-4.08e-05	0.0	0.0
783	17	2.34e-03	8.64e-04	-0.04	-3.91e-05	-3.29e-06	0.0
783	27	-6.79e-04	3.38e-03	-0.04	-4.22e-05	-1.65e-06	0.0
783	47	-3.62e-03	2.52e-03	-0.04	-4.17e-05	0.0	0.0
783	49	3.71e-03	9.04e-04	-0.04	-3.90e-05	-3.98e-06	0.0
783	59	-1.10e-03	4.90e-03	-0.04	-4.39e-05	-1.38e-06	0.0
783	70	3.15e-05	9.49e-04	-0.04	-4.69e-05	-2.82e-06	0.0
783	72	3.05e-05	8.24e-04	-0.04	-4.07e-05	-2.25e-06	0.0
784	1	3.71e-05	1.79e-03	-0.05	-8.88e-05	-3.01e-06	0.0
784	2	3.36e-05	2.20e-03	-0.05	-1.09e-04	-4.39e-06	0.0
784	15	-2.29e-03	2.48e-03	-0.04	-7.05e-05	0.0	0.0
784	17	2.38e-03	1.45e-03	-0.04	-6.79e-05	-3.86e-06	0.0
784	27	-7.02e-04	4.00e-03	-0.04	-7.29e-05	-1.58e-06	0.0
784	47	-3.66e-03	3.13e-03	-0.04	-7.20e-05	0.0	0.0
784	49	3.76e-03	1.49e-03	-0.04	-6.78e-05	-4.77e-06	0.0
784	59	-1.13e-03	5.55e-03	-0.04	-7.57e-05	-1.14e-06	0.0
784	69	2.84e-05	1.38e-03	-0.04	-6.81e-05	-2.33e-06	0.0
784	70	2.60e-05	1.65e-03	-0.04	-8.15e-05	-3.25e-06	0.0
784	71	2.84e-05	1.38e-03	-0.04	-6.81e-05	-2.33e-06	0.0
784	72	2.79e-05	1.43e-03	-0.04	-7.08e-05	-2.51e-06	0.0
785	1	3.62e-05	2.49e-03	-0.06	-1.23e-04	-3.25e-06	0.0
785	2	2.50e-05	3.06e-03	-0.06	-1.51e-04	-5.06e-06	0.0
785	17	2.40e-03	1.99e-03	-0.04	-9.44e-05	-4.69e-06	0.0
785	27	-7.24e-04	4.59e-03	-0.04	-1.02e-04	-1.21e-06	0.0
785	49	3.81e-03	2.03e-03	-0.04	-9.44e-05	-5.97e-06	0.0
785	59	-1.17e-03	6.16e-03	-0.04	-1.06e-04	0.0	0.0
785	69	2.77e-05	1.91e-03	-0.04	-9.45e-05	-2.51e-06	0.0
785	70	2.02e-05	2.29e-03	-0.05	-1.13e-04	-3.72e-06	0.0
785	71	2.77e-05	1.91e-03	-0.04	-9.45e-05	-2.51e-06	0.0
785	72	2.62e-05	1.98e-03	-0.04	-9.82e-05	-2.75e-06	0.0
786	1	4.11e-05	3.07e-03	-0.06	-1.52e-04	-3.15e-06	0.0
786	2	2.11e-05	3.77e-03	-0.07	-1.87e-04	-5.45e-06	0.0
786	17	2.43e-03	2.44e-03	-0.05	-1.17e-04	-5.57e-06	0.0

786	27	-7.39e-04	5.09e-03	-0.05	-1.27e-04	0.0	0.0
786	49	3.85e-03	2.48e-03	-0.05	-1.17e-04	-7.41e-06	0.0
786	59	-1.19e-03	6.70e-03	-0.05	-1.33e-04	0.0	0.0
786	69	3.15e-05	2.35e-03	-0.05	-1.16e-04	-2.43e-06	0.0
786	70	1.83e-05	2.82e-03	-0.05	-1.40e-04	-3.96e-06	0.0
786	71	3.15e-05	2.35e-03	-0.05	-1.16e-04	-2.43e-06	0.0
786	72	2.89e-05	2.44e-03	-0.05	-1.21e-04	-2.74e-06	0.0
787	1	5.32e-05	3.47e-03	-0.07	-1.72e-04	-2.60e-06	0.0
787	2	2.49e-05	4.27e-03	-0.08	-2.11e-04	-5.35e-06	0.0
787	17	2.46e-03	2.75e-03	-0.05	-1.32e-04	-6.26e-06	0.0
787	27	-7.46e-04	5.45e-03	-0.06	-1.45e-04	1.20e-06	0.0
787	49	3.89e-03	2.80e-03	-0.05	-1.33e-04	-8.75e-06	0.0
787	59	-1.21e-03	7.10e-03	-0.06	-1.53e-04	3.07e-06	0.0
787	69	4.10e-05	2.66e-03	-0.05	-1.32e-04	-2.00e-06	0.0
787	70	2.21e-05	3.20e-03	-0.06	-1.58e-04	-3.83e-06	0.0
787	71	4.10e-05	2.66e-03	-0.05	-1.32e-04	-2.00e-06	0.0
787	72	3.72e-05	2.77e-03	-0.06	-1.37e-04	-2.37e-06	0.0
788	1	6.82e-05	3.65e-03	-0.08	-1.81e-04	-1.82e-06	0.0
788	2	3.19e-05	4.50e-03	-0.09	-2.22e-04	-4.97e-06	0.0
788	17	2.48e-03	2.89e-03	-0.06	-1.39e-04	-6.95e-06	0.0
788	27	-7.48e-04	5.63e-03	-0.06	-1.54e-04	3.16e-06	0.0
788	49	3.92e-03	2.95e-03	-0.06	-1.40e-04	-1.02e-05	0.0
788	59	-1.22e-03	7.30e-03	-0.07	-1.63e-04	5.82e-06	0.0
788	69	5.26e-05	2.80e-03	-0.06	-1.38e-04	-1.39e-06	0.0
788	70	2.84e-05	3.36e-03	-0.07	-1.66e-04	-3.50e-06	0.0
788	71	5.26e-05	2.80e-03	-0.06	-1.38e-04	-1.39e-06	0.0
788	72	4.78e-05	2.91e-03	-0.06	-1.44e-04	-1.81e-06	0.0
789	2	5.08e-04	-4.63e-03	-0.09	2.29e-04	2.04e-05	0.0
789	10	2.84e-03	-2.94e-03	-0.06	1.43e-04	1.27e-05	0.0
789	24	-4.39e-04	-5.75e-03	-0.06	1.59e-04	1.83e-05	0.0
789	42	4.30e-03	-2.97e-03	-0.06	1.43e-04	1.16e-05	0.0
789	56	-9.04e-04	-7.44e-03	-0.07	1.68e-04	2.05e-05	0.0
789	70	3.86e-04	-3.46e-03	-0.07	1.71e-04	1.55e-05	0.0
789	72	3.61e-04	-3.00e-03	-0.06	1.48e-04	1.48e-05	0.0
790	2	4.18e-04	-4.52e-03	-0.08	2.23e-04	1.55e-05	0.0
790	10	2.76e-03	-2.87e-03	-0.06	1.39e-04	9.77e-06	0.0
790	24	-5.03e-04	-5.66e-03	-0.06	1.54e-04	1.43e-05	0.0
790	42	4.22e-03	-2.90e-03	-0.06	1.39e-04	8.80e-06	0.0
790	56	-9.71e-04	-7.33e-03	-0.06	1.63e-04	1.60e-05	0.0
790	70	3.17e-04	-3.38e-03	-0.06	1.67e-04	1.18e-05	0.0
790	72	2.99e-04	-2.93e-03	-0.06	1.45e-04	1.15e-05	0.0
791	2	2.72e-04	-4.09e-03	-0.07	2.02e-04	7.73e-06	0.0
791	10	2.64e-03	-2.60e-03	-0.05	1.26e-04	4.26e-06	0.0
791	24	-5.94e-04	-5.34e-03	-0.05	1.38e-04	8.23e-06	0.0
791	42	4.08e-03	-2.63e-03	-0.05	1.25e-04	3.14e-06	0.0
791	56	-1.06e-03	-6.98e-03	-0.05	1.46e-04	9.41e-06	0.0
791	70	2.08e-04	-3.06e-03	-0.05	1.51e-04	5.96e-06	0.0
791	72	1.99e-04	-2.66e-03	-0.05	1.31e-04	6.15e-06	0.0
792	2	1.70e-04	-3.41e-03	-0.06	1.69e-04	2.50e-06	0.0
792	10	2.54e-03	-2.18e-03	-0.04	1.05e-04	1.41e-06	0.0
792	24	-6.47e-04	-4.85e-03	-0.05	1.14e-04	1.77e-06	0.0
792	42	3.96e-03	-2.20e-03	-0.04	1.04e-04	0.0	0.0
792	56	-1.10e-03	-6.45e-03	-0.05	1.19e-04	1.31e-06	0.0
792	70	1.30e-04	-2.55e-03	-0.05	1.26e-04	1.99e-06	0.0
792	72	1.26e-04	-2.22e-03	-0.05	1.10e-04	2.45e-06	0.0
793	2	1.14e-04	-2.57e-03	-0.06	1.27e-04	0.0	0.0
793	8	-2.26e-03	-2.76e-03	-0.04	8.28e-05	0.0	0.0
793	10	2.46e-03	-1.65e-03	-0.04	7.92e-05	0.0	0.0
793	24	-6.65e-04	-4.27e-03	-0.04	8.54e-05	0.0	0.0
793	40	-3.64e-03	-3.43e-03	-0.04	8.47e-05	1.19e-06	0.0
793	42	3.86e-03	-1.67e-03	-0.04	7.89e-05	0.0	0.0
793	56	-1.11e-03	-5.84e-03	-0.04	8.87e-05	0.0	0.0
793	70	8.69e-05	-1.93e-03	-0.04	9.51e-05	0.0	0.0
793	72	8.46e-05	-1.67e-03	-0.04	8.28e-05	0.0	0.0
794	2	8.84e-05	-1.65e-03	-0.05	8.14e-05	-1.44e-06	0.0
794	8	-2.26e-03	-2.16e-03	-0.04	5.31e-05	0.0	0.0
794	10	2.40e-03	-1.07e-03	-0.04	5.08e-05	-1.01e-06	0.0
794	24	-6.60e-04	-3.65e-03	-0.04	5.46e-05	0.0	0.0
794	40	-3.62e-03	-2.82e-03	-0.04	5.43e-05	0.0	0.0
794	42	3.78e-03	-1.10e-03	-0.04	5.06e-05	-1.35e-06	0.0
794	56	-1.09e-03	-5.19e-03	-0.04	5.67e-05	0.0	0.0
794	70	6.70e-05	-1.23e-03	-0.04	6.09e-05	-1.04e-06	0.0
794	72	6.43e-05	-1.07e-03	-0.04	5.31e-05	0.0	0.0
795	2	7.94e-05	-6.83e-04	-0.05	3.37e-05	-1.87e-06	0.0
795	8	-2.24e-03	-1.54e-03	-0.04	2.24e-05	0.0	0.0
795	10	2.36e-03	-4.72e-04	-0.04	2.11e-05	-1.34e-06	0.0

795	24	-6.44e-04	-3.02e-03	-0.04	2.35e-05	0.0	0.0
795	40	-3.59e-03	-2.19e-03	-0.04	2.32e-05	0.0	0.0
795	42	3.71e-03	-4.95e-04	-0.03	2.10e-05	-1.64e-06	0.0
795	56	-1.06e-03	-4.54e-03	-0.04	2.48e-05	0.0	0.0
795	70	5.99e-05	-5.11e-04	-0.04	2.53e-05	-1.38e-06	0.0
795	72	5.65e-05	-4.45e-04	-0.04	2.20e-05	0.0	0.0
796	2	7.92e-05	2.96e-04	-0.05	-1.46e-05	-1.94e-06	0.0
796	15	-2.23e-03	1.29e-03	-0.04	-1.02e-05	0.0	0.0
796	17	2.35e-03	2.35e-04	-0.03	-9.15e-06	-1.39e-06	0.0
796	21	7.31e-04	2.77e-03	-0.04	-1.10e-05	-1.08e-06	0.0
796	47	-3.58e-03	1.94e-03	-0.04	-1.09e-05	0.0	0.0
796	49	3.70e-03	2.62e-04	-0.03	-9.14e-06	-1.68e-06	0.0
796	53	1.13e-03	4.29e-03	-0.04	-1.20e-05	-1.19e-06	0.0
796	70	5.97e-05	2.22e-04	-0.04	-1.09e-05	-1.44e-06	0.0
796	72	5.61e-05	1.93e-04	-0.04	-9.52e-06	-1.00e-06	0.0
797	2	8.68e-05	1.27e-03	-0.05	-6.26e-05	-1.72e-06	0.0
797	15	-2.25e-03	1.91e-03	-0.04	-4.10e-05	0.0	0.0
797	17	2.39e-03	8.42e-04	-0.04	-3.90e-05	-1.22e-06	0.0
797	27	-6.53e-04	3.40e-03	-0.04	-4.22e-05	0.0	0.0
797	47	-3.62e-03	2.56e-03	-0.04	-4.20e-05	0.0	0.0
797	49	3.76e-03	8.68e-04	-0.04	-3.89e-05	-1.54e-06	0.0
797	59	-1.07e-03	4.93e-03	-0.04	-4.39e-05	0.0	0.0
797	70	6.56e-05	9.50e-04	-0.04	-4.69e-05	-1.26e-06	0.0
797	72	6.22e-05	8.26e-04	-0.04	-4.08e-05	0.0	0.0
798	2	1.07e-04	2.21e-03	-0.05	-1.09e-04	0.0	0.0
798	15	-2.26e-03	2.52e-03	-0.04	-7.12e-05	0.0	0.0
798	17	2.44e-03	1.43e-03	-0.04	-6.80e-05	0.0	0.0
798	27	-6.62e-04	4.02e-03	-0.04	-7.32e-05	0.0	0.0
798	47	-3.64e-03	3.18e-03	-0.04	-7.28e-05	0.0	0.0
798	49	3.84e-03	1.46e-03	-0.04	-6.78e-05	-1.06e-06	0.0
798	59	-1.10e-03	5.58e-03	-0.04	-7.60e-05	0.0	0.0
798	70	8.12e-05	1.66e-03	-0.04	-8.18e-05	0.0	0.0
798	72	7.82e-05	1.44e-03	-0.04	-7.12e-05	0.0	0.0
799	2	1.51e-04	3.09e-03	-0.06	-1.53e-04	1.08e-06	0.0
799	15	-2.25e-03	3.09e-03	-0.04	-9.96e-05	2.07e-06	0.0
799	17	2.51e-03	1.98e-03	-0.04	-9.50e-05	0.0	0.0
799	27	-6.53e-04	4.62e-03	-0.04	-1.03e-04	0.0	0.0
799	47	-3.65e-03	3.77e-03	-0.04	-1.02e-04	2.37e-06	0.0
799	49	3.93e-03	2.00e-03	-0.04	-9.46e-05	0.0	0.0
799	59	-1.10e-03	6.21e-03	-0.04	-1.07e-04	0.0	0.0
799	70	1.15e-04	2.31e-03	-0.05	-1.14e-04	0.0	0.0
799	72	1.12e-04	2.01e-03	-0.04	-9.93e-05	1.41e-06	0.0
800	2	2.37e-04	3.84e-03	-0.07	-1.90e-04	5.30e-06	0.0
800	17	2.61e-03	2.45e-03	-0.05	-1.18e-04	2.91e-06	0.0
800	27	-6.13e-04	5.15e-03	-0.05	-1.29e-04	3.56e-06	0.0
800	49	4.04e-03	2.48e-03	-0.05	-1.18e-04	1.96e-06	0.0
800	59	-1.07e-03	6.78e-03	-0.05	-1.36e-04	3.00e-06	0.0
800	70	1.80e-04	2.87e-03	-0.05	-1.42e-04	4.12e-06	0.0
800	72	1.73e-04	2.49e-03	-0.05	-1.23e-04	4.45e-06	0.0
801	2	3.72e-04	4.37e-03	-0.08	-2.16e-04	1.22e-05	0.0
801	17	2.72e-03	2.79e-03	-0.05	-1.35e-04	7.78e-06	0.0
801	27	-5.33e-04	5.54e-03	-0.06	-1.49e-04	1.18e-05	0.0
801	49	4.17e-03	2.82e-03	-0.05	-1.34e-04	6.91e-06	0.0
801	59	-9.99e-04	7.20e-03	-0.06	-1.57e-04	1.32e-05	0.0
801	70	2.82e-04	3.27e-03	-0.06	-1.61e-04	9.38e-06	0.0
801	72	2.67e-04	2.83e-03	-0.06	-1.40e-04	9.27e-06	0.0
802	2	5.31e-04	4.61e-03	-0.09	-2.27e-04	2.06e-05	0.0
802	17	2.85e-03	2.94e-03	-0.06	-1.42e-04	1.29e-05	0.0
802	27	-4.24e-04	5.73e-03	-0.06	-1.58e-04	1.84e-05	0.0
802	49	4.31e-03	2.97e-03	-0.06	-1.42e-04	1.19e-05	0.0
802	59	-8.89e-04	7.42e-03	-0.07	-1.67e-04	2.05e-05	0.0
802	70	4.03e-04	3.45e-03	-0.07	-1.70e-04	1.57e-05	0.0
802	72	3.75e-04	2.98e-03	-0.06	-1.47e-04	1.49e-05	0.0
803	2	7.61e-04	-4.91e-03	-0.09	2.41e-04	3.38e-05	0.0
803	10	3.10e-03	-3.10e-03	-0.06	1.50e-04	2.60e-05	0.0
803	24	-3.04e-04	-5.97e-03	-0.07	1.68e-04	2.53e-05	0.0
803	42	4.63e-03	-3.13e-03	-0.06	1.51e-04	2.76e-05	0.0
803	56	-7.85e-04	-7.68e-03	-0.07	1.78e-04	2.65e-05	0.0
803	70	5.75e-04	-3.67e-03	-0.07	1.80e-04	2.56e-05	0.0
803	72	5.29e-04	-3.18e-03	-0.06	1.56e-04	2.38e-05	0.0
804	2	6.09e-04	-4.80e-03	-0.08	2.35e-04	2.57e-05	0.0
804	10	2.97e-03	-3.03e-03	-0.06	1.47e-04	2.01e-05	0.0
804	24	-4.00e-04	-5.88e-03	-0.06	1.63e-04	1.96e-05	0.0
804	42	4.47e-03	-3.05e-03	-0.06	1.47e-04	2.13e-05	0.0
804	56	-8.81e-04	-7.57e-03	-0.06	1.72e-04	2.05e-05	0.0
804	70	4.61e-04	-3.59e-03	-0.06	1.76e-04	1.95e-05	0.0

804	72	4.28e-04	-3.12e-03	-0.06	1.53e-04	1.83e-05	0.0
805	2	3.85e-04	-4.29e-03	-0.07	2.11e-04	1.33e-05	0.0
805	10	2.79e-03	-2.70e-03	-0.05	1.31e-04	1.13e-05	0.0
805	24	-5.45e-04	-5.50e-03	-0.05	1.45e-04	7.84e-06	0.0
805	42	4.27e-03	-2.71e-03	-0.05	1.31e-04	1.22e-05	0.0
805	56	-1.02e-03	-7.15e-03	-0.05	1.52e-04	6.62e-06	0.0
805	70	2.92e-04	-3.21e-03	-0.06	1.58e-04	1.01e-05	0.0
805	72	2.76e-04	-2.79e-03	-0.05	1.37e-04	9.96e-06	0.0
806	2	2.37e-04	-3.53e-03	-0.06	1.73e-04	5.70e-06	0.0
806	8	-2.25e-03	-3.41e-03	-0.05	1.14e-04	3.01e-06	0.0
806	10	2.63e-03	-2.23e-03	-0.05	1.08e-04	5.93e-06	0.0
806	24	-6.17e-04	-4.94e-03	-0.05	1.17e-04	3.28e-06	0.0
806	40	-3.67e-03	-4.12e-03	-0.05	1.16e-04	1.98e-06	0.0
806	42	4.09e-03	-2.24e-03	-0.04	1.08e-04	6.62e-06	0.0
806	56	-1.08e-03	-6.55e-03	-0.05	1.22e-04	2.41e-06	0.0
806	70	1.80e-04	-2.64e-03	-0.05	1.30e-04	4.40e-06	0.0
806	72	1.73e-04	-2.30e-03	-0.05	1.13e-04	4.69e-06	0.0
807	2	1.58e-04	-2.63e-03	-0.06	1.29e-04	1.86e-06	0.0
807	8	-2.26e-03	-2.82e-03	-0.04	8.44e-05	0.0	0.0
807	10	2.53e-03	-1.67e-03	-0.04	8.10e-05	2.85e-06	0.0
807	24	-6.44e-04	-4.32e-03	-0.04	8.68e-05	1.11e-06	0.0
807	40	-3.67e-03	-3.51e-03	-0.04	8.61e-05	0.0	0.0
807	42	3.95e-03	-1.68e-03	-0.04	8.07e-05	3.35e-06	0.0
807	56	-1.09e-03	-5.89e-03	-0.04	9.00e-05	0.0	0.0
807	70	1.20e-04	-1.97e-03	-0.04	9.69e-05	1.47e-06	0.0
807	72	1.16e-04	-1.72e-03	-0.04	8.46e-05	1.91e-06	0.0
808	2	1.21e-04	-1.67e-03	-0.05	8.24e-05	0.0	0.0
808	8	-2.26e-03	-2.20e-03	-0.04	5.37e-05	0.0	0.0
808	10	2.45e-03	-1.07e-03	-0.04	5.16e-05	1.23e-06	0.0
808	24	-6.44e-04	-3.68e-03	-0.04	5.52e-05	0.0	0.0
808	40	-3.64e-03	-2.88e-03	-0.04	5.48e-05	0.0	0.0
808	42	3.85e-03	-1.08e-03	-0.04	5.15e-05	1.57e-06	0.0
808	56	-1.08e-03	-5.23e-03	-0.04	5.72e-05	0.0	0.0
808	70	9.14e-05	-1.25e-03	-0.04	6.17e-05	0.0	0.0
808	72	8.78e-05	-1.09e-03	-0.04	5.39e-05	0.0	0.0
809	2	1.06e-04	-6.92e-04	-0.05	3.41e-05	0.0	0.0
809	8	-2.24e-03	-1.57e-03	-0.04	2.26e-05	0.0	0.0
809	10	2.40e-03	-4.56e-04	-0.04	2.14e-05	0.0	0.0
809	24	-6.30e-04	-3.04e-03	-0.04	2.36e-05	0.0	0.0
809	40	-3.60e-03	-2.24e-03	-0.04	2.33e-05	0.0	0.0
809	42	3.76e-03	-4.66e-04	-0.03	2.14e-05	0.0	0.0
809	56	-1.05e-03	-4.57e-03	-0.04	2.49e-05	0.0	0.0
809	70	7.98e-05	-5.18e-04	-0.04	2.55e-05	0.0	0.0
809	72	7.61e-05	-4.52e-04	-0.04	2.23e-05	0.0	0.0
810	2	1.05e-04	2.98e-04	-0.05	-1.47e-05	0.0	0.0
810	15	-2.23e-03	1.32e-03	-0.04	-1.02e-05	0.0	0.0
810	17	2.38e-03	2.15e-04	-0.03	-9.28e-06	0.0	0.0
810	21	7.55e-04	2.78e-03	-0.04	-1.10e-05	0.0	0.0
810	47	-3.59e-03	1.98e-03	-0.04	-1.08e-05	0.0	0.0
810	49	3.75e-03	2.29e-04	-0.03	-9.29e-06	0.0	0.0
810	53	1.16e-03	4.32e-03	-0.04	-1.20e-05	0.0	0.0
810	70	7.89e-05	2.23e-04	-0.04	-1.10e-05	0.0	0.0
810	72	7.50e-05	1.94e-04	-0.04	-9.61e-06	0.0	0.0
811	2	1.16e-04	1.28e-03	-0.05	-6.33e-05	0.0	0.0
811	15	-2.25e-03	1.95e-03	-0.04	-4.14e-05	0.0	0.0
811	17	2.43e-03	8.33e-04	-0.04	-3.96e-05	0.0	0.0
811	27	-6.39e-04	3.42e-03	-0.04	-4.26e-05	0.0	0.0
811	47	-3.63e-03	2.62e-03	-0.04	-4.23e-05	0.0	0.0
811	49	3.82e-03	8.45e-04	-0.04	-3.95e-05	1.13e-06	0.0
811	59	-1.06e-03	4.96e-03	-0.04	-4.42e-05	0.0	0.0
811	70	8.74e-05	9.61e-04	-0.04	-4.74e-05	0.0	0.0
811	72	8.35e-05	8.38e-04	-0.04	-4.14e-05	0.0	0.0
812	2	1.45e-04	2.25e-03	-0.05	-1.11e-04	0.0	0.0
812	15	-2.26e-03	2.57e-03	-0.04	-7.23e-05	0.0	0.0
812	17	2.50e-03	1.44e-03	-0.04	-6.94e-05	2.03e-06	0.0
812	27	-6.44e-04	4.06e-03	-0.04	-7.43e-05	0.0	0.0
812	47	-3.66e-03	3.25e-03	-0.04	-7.37e-05	0.0	0.0
812	49	3.92e-03	1.45e-03	-0.04	-6.92e-05	2.46e-06	0.0
812	59	-1.08e-03	5.62e-03	-0.04	-7.69e-05	0.0	0.0
812	70	1.10e-04	1.69e-03	-0.04	-8.31e-05	0.0	0.0
812	72	1.05e-04	1.47e-03	-0.04	-7.25e-05	1.17e-06	0.0
813	2	2.05e-04	3.18e-03	-0.06	-1.56e-04	3.68e-06	0.0
813	15	-2.26e-03	3.17e-03	-0.04	-1.02e-04	1.83e-06	0.0
813	17	2.60e-03	2.02e-03	-0.04	-9.76e-05	4.41e-06	0.0
813	27	-6.29e-04	4.69e-03	-0.04	-1.05e-04	2.10e-06	0.0
813	47	-3.68e-03	3.87e-03	-0.04	-1.04e-04	0.0	0.0

813	49	4.04e-03	2.03e-03	-0.04	-9.72e-05	5.03e-06	0.0
813	59	-1.09e-03	6.28e-03	-0.04	-1.10e-04	1.38e-06	0.0
813	70	1.56e-04	2.38e-03	-0.05	-1.17e-04	2.86e-06	0.0
813	72	1.50e-04	2.07e-03	-0.04	-1.02e-04	3.25e-06	0.0
814	2	3.22e-04	4.00e-03	-0.07	-1.97e-04	9.56e-06	0.0
814	17	2.73e-03	2.53e-03	-0.05	-1.23e-04	8.78e-06	0.0
814	27	-5.79e-04	5.28e-03	-0.05	-1.34e-04	5.54e-06	0.0
814	49	4.20e-03	2.54e-03	-0.05	-1.22e-04	9.58e-06	0.0
814	59	-1.05e-03	6.91e-03	-0.05	-1.41e-04	4.45e-06	0.0
814	70	2.45e-04	3.00e-03	-0.05	-1.47e-04	7.33e-06	0.0
814	72	2.32e-04	2.61e-03	-0.05	-1.28e-04	7.40e-06	0.0
815	2	5.23e-04	4.63e-03	-0.08	-2.27e-04	2.03e-05	0.0
815	17	2.90e-03	2.93e-03	-0.06	-1.42e-04	1.65e-05	0.0
815	27	-4.58e-04	5.75e-03	-0.06	-1.57e-04	1.58e-05	0.0
815	49	4.40e-03	2.95e-03	-0.05	-1.42e-04	1.77e-05	0.0
815	59	-9.39e-04	7.43e-03	-0.06	-1.65e-04	1.65e-05	0.0
815	70	3.96e-04	3.47e-03	-0.06	-1.70e-04	1.54e-05	0.0
815	72	3.69e-04	3.01e-03	-0.06	-1.48e-04	1.47e-05	0.0
816	2	7.89e-04	4.89e-03	-0.09	-2.40e-04	3.41e-05	0.0
816	17	3.12e-03	3.10e-03	-0.06	-1.50e-04	2.61e-05	0.0
816	27	-2.81e-04	5.95e-03	-0.07	-1.67e-04	2.55e-05	0.0
816	49	4.64e-03	3.13e-03	-0.06	-1.50e-04	2.77e-05	0.0
816	59	-7.59e-04	7.66e-03	-0.07	-1.77e-04	2.67e-05	0.0
816	70	5.97e-04	3.66e-03	-0.07	-1.79e-04	2.58e-05	0.0
816	72	5.47e-04	3.17e-03	-0.06	-1.56e-04	2.39e-05	0.0
817	2	5.75e-04	-5.46e-03	-0.09	2.63e-04	2.41e-05	0.0
817	10	3.12e-03	-3.47e-03	-0.06	1.67e-04	2.75e-05	0.0
817	24	-4.58e-04	-6.41e-03	-0.07	1.85e-04	1.68e-05	0.0
817	42	4.72e-03	-3.51e-03	-0.06	1.69e-04	3.34e-05	0.0
817	56	-9.65e-04	-8.18e-03	-0.07	1.97e-04	1.64e-05	0.0
817	70	4.37e-04	-4.09e-03	-0.07	1.97e-04	1.83e-05	0.0
817	72	4.12e-04	-3.54e-03	-0.07	1.71e-04	1.76e-05	0.0
818	1	2.38e-04	-4.40e-03	-0.08	2.12e-04	1.07e-05	0.0
818	2	2.14e-04	-5.40e-03	-0.09	2.60e-04	9.29e-06	0.0
818	10	2.92e-03	-3.38e-03	-0.06	1.63e-04	1.73e-05	0.0
818	24	-7.24e-04	-6.34e-03	-0.06	1.81e-04	3.46e-06	0.0
818	42	4.53e-03	-3.37e-03	-0.06	1.63e-04	2.27e-05	0.0
818	56	-1.26e-03	-8.08e-03	-0.06	1.92e-04	0.0	0.0
818	69	1.83e-04	-3.37e-03	-0.06	1.63e-04	8.20e-06	0.0
818	70	1.66e-04	-4.04e-03	-0.06	1.95e-04	7.25e-06	0.0
818	71	1.83e-04	-3.37e-03	-0.06	1.63e-04	8.20e-06	0.0
818	72	1.79e-04	-3.51e-03	-0.06	1.69e-04	8.01e-06	0.0
819	2	2.47e-04	-4.52e-03	-0.07	2.20e-04	6.52e-06	0.0
819	10	2.79e-03	-2.85e-03	-0.05	1.39e-04	1.18e-05	0.0
819	24	-6.44e-04	-5.65e-03	-0.05	1.50e-04	5.40e-06	0.0
819	42	4.32e-03	-2.85e-03	-0.05	1.39e-04	1.52e-05	0.0
819	56	-1.13e-03	-7.31e-03	-0.05	1.57e-04	5.13e-06	0.0
819	70	1.89e-04	-3.38e-03	-0.06	1.65e-04	5.08e-06	0.0
819	72	1.88e-04	-2.95e-03	-0.05	1.44e-04	5.69e-06	0.0
820	1	1.78e-04	-2.98e-03	-0.06	1.46e-04	4.04e-06	0.0
820	2	1.76e-04	-3.63e-03	-0.06	1.78e-04	2.74e-06	0.0
820	10	2.65e-03	-2.29e-03	-0.05	1.12e-04	6.80e-06	0.0
820	24	-6.64e-04	-5.02e-03	-0.05	1.20e-04	2.67e-06	0.0
820	42	4.14e-03	-2.29e-03	-0.05	1.12e-04	9.01e-06	0.0
820	56	-1.13e-03	-6.63e-03	-0.05	1.25e-04	2.43e-06	0.0
820	69	1.36e-04	-2.29e-03	-0.05	1.12e-04	3.05e-06	0.0
820	70	1.35e-04	-2.72e-03	-0.05	1.33e-04	2.19e-06	0.0
820	71	1.36e-04	-2.29e-03	-0.05	1.12e-04	3.05e-06	0.0
820	72	1.35e-04	-2.37e-03	-0.05	1.16e-04	2.88e-06	0.0
821	1	1.37e-04	-2.20e-03	-0.05	1.08e-04	2.06e-06	0.0
821	2	1.36e-04	-2.68e-03	-0.06	1.32e-04	0.0	0.0
821	8	-2.31e-03	-2.88e-03	-0.04	8.53e-05	-1.12e-06	0.0
821	10	2.55e-03	-1.69e-03	-0.04	8.32e-05	4.16e-06	0.0
821	24	-6.63e-04	-4.37e-03	-0.04	8.81e-05	1.16e-06	0.0
821	40	-3.74e-03	-3.57e-03	-0.04	8.66e-05	-2.68e-06	0.0
821	42	4.00e-03	-1.69e-03	-0.04	8.33e-05	5.72e-06	0.0
821	56	-1.11e-03	-5.94e-03	-0.04	9.10e-05	0.0	0.0
821	69	1.05e-04	-1.69e-03	-0.04	8.31e-05	1.53e-06	0.0
821	70	1.04e-04	-2.01e-03	-0.04	9.86e-05	0.0	0.0
821	71	1.05e-04	-1.69e-03	-0.04	8.31e-05	1.53e-06	0.0
821	72	1.04e-04	-1.75e-03	-0.04	8.62e-05	1.36e-06	0.0
822	2	1.18e-04	-1.70e-03	-0.05	8.33e-05	0.0	0.0
822	8	-2.28e-03	-2.24e-03	-0.04	5.40e-05	-1.20e-06	0.0
822	10	2.48e-03	-1.07e-03	-0.04	5.28e-05	2.72e-06	0.0
822	24	-6.50e-04	-3.71e-03	-0.04	5.57e-05	0.0	0.0
822	40	-3.68e-03	-2.93e-03	-0.04	5.49e-05	-2.36e-06	0.0

822	42	3.89e-03	-1.07e-03	-0.04	5.29e-05	3.87e-06	0.0
822	56	-1.08e-03	-5.26e-03	-0.04	5.76e-05	0.0	0.0
822	70	8.96e-05	-1.27e-03	-0.04	6.24e-05	0.0	0.0
822	72	8.89e-05	-1.11e-03	-0.04	5.46e-05	0.0	0.0
823	2	1.11e-04	-7.01e-04	-0.05	3.44e-05	0.0	0.0
823	8	-2.25e-03	-1.60e-03	-0.04	2.26e-05	-1.15e-06	0.0
823	10	2.43e-03	-4.44e-04	-0.04	2.19e-05	1.99e-06	0.0
823	24	-6.30e-04	-3.06e-03	-0.04	2.38e-05	0.0	0.0
823	40	-3.63e-03	-2.29e-03	-0.04	2.31e-05	-2.08e-06	0.0
823	42	3.81e-03	-4.41e-04	-0.03	2.20e-05	2.92e-06	0.0
823	56	-1.05e-03	-4.60e-03	-0.04	2.49e-05	0.0	0.0
823	70	8.42e-05	-5.25e-04	-0.04	2.58e-05	0.0	0.0
823	72	8.26e-05	-4.59e-04	-0.04	2.25e-05	0.0	0.0
824	2	1.12e-04	2.99e-04	-0.05	-1.48e-05	0.0	0.0
824	15	-2.25e-03	1.34e-03	-0.04	-1.01e-05	-1.16e-06	0.0
824	17	2.41e-03	1.96e-04	-0.03	-9.52e-06	1.87e-06	0.0
824	21	7.70e-04	2.80e-03	-0.04	-1.12e-05	0.0	0.0
824	47	-3.62e-03	2.02e-03	-0.04	-1.06e-05	-2.05e-06	0.0
824	49	3.79e-03	1.98e-04	-0.03	-9.61e-06	2.76e-06	0.0
824	53	1.18e-03	4.34e-03	-0.04	-1.22e-05	0.0	0.0
824	70	8.42e-05	2.24e-04	-0.04	-1.11e-05	0.0	0.0
824	72	8.23e-05	1.96e-04	-0.04	-9.70e-06	0.0	0.0
825	2	1.18e-04	1.30e-03	-0.05	-6.39e-05	0.0	0.0
825	15	-2.27e-03	1.98e-03	-0.04	-4.15e-05	-1.23e-06	0.0
825	17	2.47e-03	8.26e-04	-0.04	-4.05e-05	2.37e-06	0.0
825	21	7.53e-04	3.44e-03	-0.04	-4.27e-05	1.18e-06	0.0
825	47	-3.67e-03	2.66e-03	-0.04	-4.22e-05	-2.29e-06	0.0
825	49	3.87e-03	8.28e-04	-0.04	-4.05e-05	3.43e-06	0.0
825	53	1.15e-03	4.99e-03	-0.04	-4.41e-05	1.55e-06	0.0
825	70	8.89e-05	9.72e-04	-0.04	-4.78e-05	0.0	0.0
825	72	8.75e-05	8.49e-04	-0.04	-4.19e-05	0.0	0.0
826	2	1.33e-04	2.29e-03	-0.05	-1.12e-04	0.0	0.0
826	15	-2.30e-03	2.61e-03	-0.04	-7.29e-05	-1.26e-06	0.0
826	17	2.53e-03	1.45e-03	-0.04	-7.11e-05	3.48e-06	0.0
826	27	-6.56e-04	4.10e-03	-0.04	-7.51e-05	0.0	0.0
826	47	-3.72e-03	3.30e-03	-0.04	-7.39e-05	-2.65e-06	0.0
826	49	3.97e-03	1.45e-03	-0.04	-7.12e-05	4.88e-06	0.0
826	59	-1.10e-03	5.66e-03	-0.04	-7.76e-05	0.0	0.0
826	70	1.01e-04	1.71e-03	-0.04	-8.42e-05	0.0	0.0
826	72	1.00e-04	1.50e-03	-0.04	-7.36e-05	0.0	0.0
827	1	1.64e-04	2.67e-03	-0.06	-1.31e-04	2.98e-06	0.0
827	2	1.63e-04	3.25e-03	-0.06	-1.60e-04	1.66e-06	0.0
827	15	-2.33e-03	3.24e-03	-0.04	-1.04e-04	-1.10e-06	0.0
827	17	2.62e-03	2.06e-03	-0.04	-1.01e-04	5.58e-06	0.0
827	27	-6.62e-04	4.76e-03	-0.04	-1.07e-04	1.84e-06	0.0
827	47	-3.78e-03	3.94e-03	-0.04	-1.05e-04	-3.07e-06	0.0
827	49	4.09e-03	2.07e-03	-0.04	-1.01e-04	7.55e-06	0.0
827	59	-1.13e-03	6.35e-03	-0.04	-1.11e-04	1.59e-06	0.0
827	69	1.25e-04	2.05e-03	-0.04	-1.01e-04	2.24e-06	0.0
827	70	1.24e-04	2.44e-03	-0.05	-1.20e-04	1.35e-06	0.0
827	71	1.25e-04	2.05e-03	-0.04	-1.01e-04	2.24e-06	0.0
827	72	1.25e-04	2.13e-03	-0.04	-1.04e-04	2.06e-06	0.0
828	1	2.14e-04	3.42e-03	-0.06	-1.67e-04	5.56e-06	0.0
828	2	2.13e-04	4.17e-03	-0.07	-2.04e-04	4.21e-06	0.0
828	17	2.73e-03	2.64e-03	-0.05	-1.29e-04	8.79e-06	0.0
828	27	-6.56e-04	5.40e-03	-0.05	-1.38e-04	3.81e-06	0.0
828	49	4.25e-03	2.65e-03	-0.05	-1.29e-04	1.15e-05	0.0
828	59	-1.14e-03	7.03e-03	-0.05	-1.44e-04	3.55e-06	0.0
828	69	1.63e-04	2.62e-03	-0.05	-1.28e-04	4.23e-06	0.0
828	70	1.63e-04	3.13e-03	-0.05	-1.53e-04	3.33e-06	0.0
828	71	1.63e-04	2.62e-03	-0.05	-1.28e-04	4.23e-06	0.0
828	72	1.63e-04	2.72e-03	-0.05	-1.33e-04	4.05e-06	0.0
829	1	1.67e-04	4.15e-03	-0.07	-2.01e-04	6.22e-06	0.0
829	2	1.32e-04	5.09e-03	-0.08	-2.46e-04	4.02e-06	0.0
829	17	2.82e-03	3.20e-03	-0.06	-1.55e-04	1.26e-05	0.0
829	27	-7.63e-04	6.08e-03	-0.06	-1.70e-04	0.0	0.0
829	49	4.41e-03	3.20e-03	-0.06	-1.55e-04	1.72e-05	0.0
829	59	-1.29e-03	7.78e-03	-0.06	-1.79e-04	-2.08e-06	0.0
829	69	1.28e-04	3.19e-03	-0.06	-1.55e-04	4.74e-06	0.0
829	70	1.05e-04	3.81e-03	-0.06	-1.84e-04	3.28e-06	0.0
829	71	1.28e-04	3.19e-03	-0.06	-1.55e-04	4.74e-06	0.0
829	72	1.23e-04	3.31e-03	-0.06	-1.61e-04	4.44e-06	0.0
830	2	6.08e-04	5.48e-03	-0.09	-2.64e-04	2.46e-05	0.0
830	17	3.13e-03	3.50e-03	-0.06	-1.68e-04	2.75e-05	0.0
830	21	1.04e-03	6.43e-03	-0.07	-1.85e-04	2.19e-05	0.0
830	27	-4.30e-04	6.42e-03	-0.07	-1.86e-04	1.73e-05	0.0

830	49	4.72e-03	3.55e-03	-0.06	-1.69e-04	3.33e-05	0.0
830	53	1.40e-03	8.20e-03	-0.07	-1.97e-04	2.43e-05	0.0
830	59	-9.31e-04	8.19e-03	-0.07	-1.98e-04	1.69e-05	0.0
830	70	4.61e-04	4.10e-03	-0.07	-1.97e-04	1.87e-05	0.0
830	72	4.33e-04	3.55e-03	-0.07	-1.71e-04	1.80e-05	0.0
831	1	1.66e-04	-4.32e-03	-0.08	2.11e-04	2.83e-06	0.0
831	2	1.36e-04	-5.29e-03	-0.09	2.59e-04	0.0	0.0
831	10	2.96e-03	-3.35e-03	-0.06	1.65e-04	1.64e-05	0.0
831	24	-7.73e-04	-6.24e-03	-0.06	1.80e-04	0.0	0.0
831	42	4.64e-03	-3.37e-03	-0.06	1.66e-04	2.47e-05	0.0
831	56	-1.30e-03	-7.96e-03	-0.06	1.90e-04	-1.79e-06	0.0
831	69	1.27e-04	-3.31e-03	-0.06	1.62e-04	2.14e-06	0.0
831	70	1.07e-04	-3.96e-03	-0.07	1.94e-04	0.0	0.0
831	71	1.27e-04	-3.31e-03	-0.06	1.62e-04	2.14e-06	0.0
831	72	1.23e-04	-3.44e-03	-0.06	1.69e-04	1.75e-06	0.0
832	1	1.24e-04	-3.74e-03	-0.07	1.82e-04	1.51e-06	0.0
832	2	9.71e-05	-4.56e-03	-0.07	2.22e-04	-1.09e-06	0.0
832	10	2.72e-03	-2.89e-03	-0.05	1.42e-04	8.59e-06	0.0
832	24	-7.42e-04	-5.69e-03	-0.05	1.51e-04	0.0	0.0
832	42	4.27e-03	-2.89e-03	-0.05	1.42e-04	1.30e-05	0.0
832	56	-1.23e-03	-7.35e-03	-0.05	1.58e-04	0.0	0.0
832	69	9.48e-05	-2.87e-03	-0.05	1.40e-04	1.11e-06	0.0
832	70	7.65e-05	-3.41e-03	-0.06	1.66e-04	0.0	0.0
832	71	9.48e-05	-2.87e-03	-0.05	1.40e-04	1.11e-06	0.0
832	72	9.11e-05	-2.98e-03	-0.05	1.45e-04	0.0	0.0
833	1	1.18e-04	-3.00e-03	-0.06	1.47e-04	1.18e-06	0.0
833	2	1.00e-04	-3.65e-03	-0.06	1.79e-04	0.0	0.0
833	10	2.64e-03	-2.31e-03	-0.05	1.14e-04	6.43e-06	0.0
833	24	-7.14e-04	-5.04e-03	-0.05	1.20e-04	0.0	0.0
833	42	4.14e-03	-2.31e-03	-0.05	1.15e-04	9.72e-06	0.0
833	56	-1.19e-03	-6.65e-03	-0.05	1.25e-04	0.0	0.0
833	69	8.97e-05	-2.30e-03	-0.05	1.13e-04	0.0	0.0
833	70	7.78e-05	-2.74e-03	-0.05	1.34e-04	0.0	0.0
833	71	8.97e-05	-2.30e-03	-0.05	1.13e-04	0.0	0.0
833	72	8.74e-05	-2.39e-03	-0.05	1.17e-04	0.0	0.0
834	1	1.13e-04	-2.22e-03	-0.05	1.09e-04	0.0	0.0
834	2	1.03e-04	-2.69e-03	-0.06	1.32e-04	0.0	0.0
834	8	-2.35e-03	-2.89e-03	-0.04	8.51e-05	-3.07e-06	0.0
834	10	2.56e-03	-1.70e-03	-0.04	8.41e-05	4.61e-06	0.0
834	24	-6.86e-04	-4.38e-03	-0.04	8.83e-05	0.0	0.0
834	40	-3.79e-03	-3.60e-03	-0.04	8.61e-05	-5.25e-06	0.0
834	42	4.01e-03	-1.70e-03	-0.04	8.46e-05	6.96e-06	0.0
834	56	-1.14e-03	-5.96e-03	-0.04	9.11e-05	0.0	0.0
834	69	8.56e-05	-1.70e-03	-0.04	8.35e-05	0.0	0.0
834	70	7.87e-05	-2.02e-03	-0.04	9.89e-05	0.0	0.0
834	71	8.56e-05	-1.70e-03	-0.04	8.35e-05	0.0	0.0
834	72	8.42e-05	-1.76e-03	-0.04	8.65e-05	0.0	0.0
835	1	1.10e-04	-1.40e-03	-0.05	6.89e-05	0.0	0.0
835	2	1.05e-04	-1.70e-03	-0.05	8.35e-05	0.0	0.0
835	8	-2.31e-03	-2.26e-03	-0.04	5.39e-05	-2.36e-06	0.0
835	10	2.49e-03	-1.07e-03	-0.04	5.33e-05	3.51e-06	0.0
835	24	-6.60e-04	-3.72e-03	-0.04	5.58e-05	0.0	0.0
835	40	-3.72e-03	-2.95e-03	-0.04	5.45e-05	-4.05e-06	0.0
835	42	3.92e-03	-1.06e-03	-0.04	5.36e-05	5.28e-06	0.0
835	56	-1.10e-03	-5.28e-03	-0.04	5.76e-05	0.0	0.0
835	69	8.30e-05	-1.08e-03	-0.04	5.29e-05	0.0	0.0
835	70	7.99e-05	-1.28e-03	-0.04	6.26e-05	0.0	0.0
835	71	8.30e-05	-1.08e-03	-0.04	5.29e-05	0.0	0.0
835	72	8.24e-05	-1.12e-03	-0.04	5.48e-05	0.0	0.0
836	1	1.09e-04	-5.79e-04	-0.05	2.84e-05	0.0	0.0
836	2	1.07e-04	-7.02e-04	-0.05	3.44e-05	0.0	0.0
836	8	-2.27e-03	-1.62e-03	-0.04	2.25e-05	-1.93e-06	0.0
836	10	2.44e-03	-4.35e-04	-0.04	2.21e-05	2.86e-06	0.0
836	24	-6.35e-04	-3.07e-03	-0.04	2.38e-05	0.0	0.0
836	40	-3.66e-03	-2.31e-03	-0.04	2.29e-05	-3.33e-06	0.0
836	42	3.84e-03	-4.27e-04	-0.04	2.23e-05	4.29e-06	0.0
836	56	-1.06e-03	-4.61e-03	-0.04	2.49e-05	0.0	0.0
836	69	8.20e-05	-4.44e-04	-0.04	2.18e-05	0.0	0.0
836	70	8.11e-05	-5.26e-04	-0.04	2.58e-05	0.0	0.0
836	71	8.20e-05	-4.44e-04	-0.04	2.18e-05	0.0	0.0
836	72	8.18e-05	-4.61e-04	-0.04	2.26e-05	0.0	0.0
837	1	1.09e-04	2.46e-04	-0.05	-1.22e-05	0.0	0.0
837	2	1.09e-04	2.99e-04	-0.05	-1.48e-05	0.0	0.0
837	15	-2.26e-03	1.35e-03	-0.04	-1.00e-05	-1.85e-06	0.0
837	17	2.43e-03	1.86e-04	-0.03	-9.68e-06	2.70e-06	0.0
837	21	7.75e-04	2.81e-03	-0.04	-1.12e-05	1.11e-06	0.0

837	47	-3.64e-03	2.04e-03	-0.04	-1.04e-05	-3.18e-06	0.0
837	49	3.82e-03	1.80e-04	-0.03	-9.86e-06	4.04e-06	0.0
837	53	1.18e-03	4.35e-03	-0.04	-1.22e-05	1.51e-06	0.0
837	69	8.25e-05	1.89e-04	-0.04	-9.38e-06	0.0	0.0
837	70	8.21e-05	2.24e-04	-0.04	-1.11e-05	0.0	0.0
837	71	8.25e-05	1.89e-04	-0.04	-9.38e-06	0.0	0.0
837	72	8.25e-05	1.96e-04	-0.04	-9.72e-06	0.0	0.0
838	1	1.12e-04	1.07e-03	-0.05	-5.28e-05	0.0	0.0
838	2	1.09e-04	1.30e-03	-0.05	-6.39e-05	0.0	0.0
838	15	-2.29e-03	1.99e-03	-0.04	-4.14e-05	-2.19e-06	0.0
838	17	2.48e-03	8.20e-04	-0.04	-4.09e-05	3.19e-06	0.0
838	21	7.55e-04	3.45e-03	-0.04	-4.29e-05	1.27e-06	0.0
838	47	-3.70e-03	2.68e-03	-0.04	-4.19e-05	-3.75e-06	0.0
838	49	3.89e-03	8.16e-04	-0.04	-4.11e-05	4.79e-06	0.0
838	53	1.15e-03	5.01e-03	-0.04	-4.44e-05	1.75e-06	0.0
838	69	8.45e-05	8.21e-04	-0.04	-4.05e-05	0.0	0.0
838	70	8.29e-05	9.73e-04	-0.04	-4.79e-05	0.0	0.0
838	71	8.45e-05	8.21e-04	-0.04	-4.05e-05	0.0	0.0
838	72	8.42e-05	8.52e-04	-0.04	-4.20e-05	0.0	0.0
839	1	1.16e-04	1.89e-03	-0.05	-9.30e-05	0.0	0.0
839	2	1.10e-04	2.29e-03	-0.05	-1.13e-04	0.0	0.0
839	15	-2.33e-03	2.63e-03	-0.04	-7.27e-05	-2.80e-06	0.0
839	17	2.54e-03	1.45e-03	-0.04	-7.19e-05	4.11e-06	0.0
839	21	7.40e-04	4.11e-03	-0.04	-7.52e-05	1.65e-06	0.0
839	47	-3.76e-03	3.32e-03	-0.04	-7.35e-05	-4.78e-06	0.0
839	49	3.99e-03	1.45e-03	-0.04	-7.22e-05	6.20e-06	0.0
839	53	1.13e-03	5.68e-03	-0.04	-7.74e-05	2.28e-06	0.0
839	69	8.81e-05	1.45e-03	-0.04	-7.13e-05	0.0	0.0
839	70	8.37e-05	1.72e-03	-0.04	-8.44e-05	0.0	0.0
839	71	8.81e-05	1.45e-03	-0.04	-7.13e-05	0.0	0.0
839	72	8.72e-05	1.50e-03	-0.04	-7.39e-05	0.0	0.0
840	1	1.23e-04	2.69e-03	-0.06	-1.32e-04	1.06e-06	0.0
840	2	1.10e-04	3.27e-03	-0.06	-1.60e-04	0.0	0.0
840	17	2.61e-03	2.07e-03	-0.04	-1.02e-04	5.62e-06	0.0
840	21	7.31e-04	4.78e-03	-0.04	-1.07e-04	2.32e-06	0.0
840	27	-6.97e-04	4.77e-03	-0.04	-1.08e-04	0.0	0.0
840	49	4.10e-03	2.08e-03	-0.04	-1.03e-04	8.48e-06	0.0
840	53	1.11e-03	6.37e-03	-0.04	-1.11e-04	3.22e-06	0.0
840	59	-1.16e-03	6.37e-03	-0.04	-1.11e-04	0.0	0.0
840	69	9.35e-05	2.06e-03	-0.04	-1.01e-04	0.0	0.0
840	70	8.49e-05	2.45e-03	-0.05	-1.20e-04	0.0	0.0
840	71	9.35e-05	2.06e-03	-0.04	-1.01e-04	0.0	0.0
840	72	9.18e-05	2.14e-03	-0.04	-1.05e-04	0.0	0.0
841	1	1.33e-04	3.45e-03	-0.06	-1.69e-04	1.43e-06	0.0
841	2	1.12e-04	4.20e-03	-0.07	-2.05e-04	0.0	0.0
841	17	2.70e-03	2.66e-03	-0.05	-1.31e-04	7.85e-06	0.0
841	27	-7.23e-04	5.43e-03	-0.05	-1.39e-04	0.0	0.0
841	49	4.24e-03	2.67e-03	-0.05	-1.32e-04	1.19e-05	0.0
841	59	-1.21e-03	7.07e-03	-0.05	-1.45e-04	0.0	0.0
841	69	1.01e-04	2.65e-03	-0.05	-1.29e-04	1.04e-06	0.0
841	70	8.73e-05	3.15e-03	-0.05	-1.54e-04	0.0	0.0
841	71	1.01e-04	2.65e-03	-0.05	-1.29e-04	1.04e-06	0.0
841	72	9.84e-05	2.75e-03	-0.05	-1.34e-04	0.0	0.0
842	1	1.84e-04	4.10e-03	-0.07	-2.01e-04	3.10e-06	0.0
842	2	1.64e-04	5.01e-03	-0.08	-2.45e-04	0.0	0.0
842	17	2.90e-03	3.18e-03	-0.06	-1.56e-04	1.32e-05	0.0
842	27	-7.30e-04	6.01e-03	-0.06	-1.68e-04	0.0	0.0
842	49	4.52e-03	3.19e-03	-0.06	-1.57e-04	1.97e-05	0.0
842	59	-1.24e-03	7.70e-03	-0.06	-1.76e-04	0.0	0.0
842	69	1.41e-04	3.14e-03	-0.06	-1.54e-04	2.34e-06	0.0
842	70	1.27e-04	3.75e-03	-0.06	-1.83e-04	0.0	0.0
842	71	1.41e-04	3.14e-03	-0.06	-1.54e-04	2.34e-06	0.0
842	72	1.38e-04	3.27e-03	-0.06	-1.60e-04	2.00e-06	0.0
843	2	-3.05e-04	-5.53e-03	-0.09	2.67e-04	-2.23e-05	0.0
843	11	-2.96e-03	-3.40e-03	-0.06	1.62e-04	-2.68e-05	0.0
843	24	-1.06e-03	-6.49e-03	-0.07	1.88e-04	-1.41e-05	0.0
843	28	-9.65e-04	-6.22e-03	-0.07	1.88e-04	-1.27e-05	0.0
843	43	-4.62e-03	-3.38e-03	-0.06	1.60e-04	-3.59e-05	0.0
843	56	-1.60e-03	-8.28e-03	-0.07	2.01e-04	-1.56e-05	0.0
843	60	-1.45e-03	-7.86e-03	-0.07	2.01e-04	-1.35e-05	0.0
843	70	-2.23e-04	-4.14e-03	-0.07	2.00e-04	-1.64e-05	0.0
843	72	-1.61e-04	-3.58e-03	-0.07	1.73e-04	-1.25e-05	0.0
844	1	1.43e-04	-4.41e-03	-0.08	2.14e-04	-1.81e-06	0.0
844	2	1.24e-04	-5.41e-03	-0.09	2.62e-04	-5.26e-06	0.0
844	10	2.91e-03	-3.45e-03	-0.06	1.68e-04	1.22e-05	0.0
844	26	7.72e-04	-6.35e-03	-0.06	1.82e-04	3.24e-06	0.0

844	28	-6.67e-04	-6.08e-03	-0.06	1.82e-04	-2.18e-06	0.0
844	42	4.57e-03	-3.48e-03	-0.06	1.71e-04	2.03e-05	0.0
844	58	1.17e-03	-8.09e-03	-0.06	1.93e-04	5.94e-06	0.0
844	60	-1.12e-03	-7.66e-03	-0.06	1.92e-04	-2.68e-06	0.0
844	69	1.09e-04	-3.39e-03	-0.06	1.64e-04	-1.43e-06	0.0
844	70	9.67e-05	-4.05e-03	-0.06	1.96e-04	-3.73e-06	0.0
844	71	1.09e-04	-3.39e-03	-0.06	1.64e-04	-1.43e-06	0.0
844	72	1.07e-04	-3.52e-03	-0.06	1.70e-04	-1.89e-06	0.0
845	1	4.79e-05	-3.72e-03	-0.07	1.82e-04	-2.55e-06	0.0
845	2	3.01e-06	-4.54e-03	-0.07	2.21e-04	-6.09e-06	0.0
845	10	2.68e-03	-2.88e-03	-0.05	1.42e-04	6.28e-06	0.0
845	24	-8.05e-04	-5.67e-03	-0.05	1.50e-04	-3.33e-06	0.0
845	26	6.65e-04	-5.67e-03	-0.05	1.51e-04	0.0	0.0
845	42	4.25e-03	-2.89e-03	-0.05	1.44e-04	1.12e-05	0.0
845	56	-1.30e-03	-7.33e-03	-0.05	1.57e-04	-4.15e-06	0.0
845	58	1.04e-03	-7.33e-03	-0.05	1.57e-04	2.27e-06	0.0
845	69	3.58e-05	-2.86e-03	-0.05	1.40e-04	-2.02e-06	0.0
845	70	5.84e-06	-3.40e-03	-0.06	1.66e-04	-4.38e-06	0.0
845	71	3.58e-05	-2.86e-03	-0.05	1.40e-04	-2.02e-06	0.0
845	72	2.98e-05	-2.96e-03	-0.05	1.45e-04	-2.49e-06	0.0
846	1	7.73e-05	-3.00e-03	-0.06	1.47e-04	0.0	0.0
846	2	4.75e-05	-3.64e-03	-0.06	1.78e-04	-3.49e-06	0.0
846	10	2.62e-03	-2.31e-03	-0.05	1.15e-04	5.56e-06	0.0
846	24	-7.46e-04	-5.04e-03	-0.05	1.20e-04	-1.78e-06	0.0
846	26	6.98e-04	-5.04e-03	-0.05	1.20e-04	1.31e-06	0.0
846	42	4.13e-03	-2.31e-03	-0.05	1.16e-04	9.24e-06	0.0
846	56	-1.22e-03	-6.66e-03	-0.05	1.24e-04	-2.44e-06	0.0
846	58	1.08e-03	-6.66e-03	-0.05	1.25e-04	2.47e-06	0.0
846	69	5.81e-05	-2.30e-03	-0.05	1.13e-04	0.0	0.0
846	70	3.83e-05	-2.73e-03	-0.05	1.34e-04	-2.48e-06	0.0
846	71	5.81e-05	-2.30e-03	-0.05	1.13e-04	0.0	0.0
846	72	5.42e-05	-2.38e-03	-0.05	1.17e-04	-1.05e-06	0.0
847	1	9.54e-05	-2.21e-03	-0.05	1.09e-04	0.0	0.0
847	2	7.80e-05	-2.69e-03	-0.06	1.32e-04	-1.94e-06	0.0
847	10	2.56e-03	-1.70e-03	-0.04	8.47e-05	4.62e-06	0.0
847	24	-7.03e-04	-4.39e-03	-0.04	8.81e-05	0.0	0.0
847	26	7.23e-04	-4.39e-03	-0.04	8.83e-05	1.39e-06	0.0
847	42	4.02e-03	-1.69e-03	-0.04	8.54e-05	7.35e-06	0.0
847	56	-1.16e-03	-5.97e-03	-0.04	9.08e-05	-1.53e-06	0.0
847	58	1.11e-03	-5.97e-03	-0.04	9.11e-05	2.21e-06	0.0
847	69	7.19e-05	-1.70e-03	-0.04	8.34e-05	0.0	0.0
847	70	6.02e-05	-2.01e-03	-0.04	9.87e-05	-1.37e-06	0.0
847	71	7.19e-05	-1.70e-03	-0.04	8.34e-05	0.0	0.0
847	72	6.95e-05	-1.76e-03	-0.04	8.65e-05	0.0	0.0
848	1	1.04e-04	-1.40e-03	-0.05	6.89e-05	0.0	0.0
848	2	9.46e-05	-1.70e-03	-0.05	8.33e-05	-1.13e-06	0.0
848	8	-2.32e-03	-2.26e-03	-0.04	5.35e-05	-3.17e-06	0.0
848	10	2.50e-03	-1.06e-03	-0.04	5.37e-05	3.90e-06	0.0
848	24	-6.68e-04	-3.72e-03	-0.04	5.57e-05	0.0	0.0
848	40	-3.74e-03	-2.96e-03	-0.04	5.39e-05	-5.21e-06	0.0
848	42	3.93e-03	-1.06e-03	-0.04	5.41e-05	6.02e-06	0.0
848	56	-1.11e-03	-5.28e-03	-0.04	5.74e-05	-1.07e-06	0.0
848	69	7.83e-05	-1.08e-03	-0.04	5.28e-05	0.0	0.0
848	70	7.21e-05	-1.27e-03	-0.04	6.25e-05	0.0	0.0
848	71	7.83e-05	-1.08e-03	-0.04	5.28e-05	0.0	0.0
848	72	7.71e-05	-1.11e-03	-0.04	5.48e-05	0.0	0.0
849	1	1.08e-04	-5.79e-04	-0.05	2.84e-05	0.0	0.0
849	2	1.03e-04	-7.02e-04	-0.05	3.44e-05	0.0	0.0
849	10	2.45e-03	-4.29e-04	-0.04	2.23e-05	3.38e-06	0.0
849	16	-2.25e-03	-7.66e-04	-0.04	2.23e-05	-2.25e-06	0.0
849	24	-6.39e-04	-3.07e-03	-0.04	2.37e-05	0.0	0.0
849	42	3.85e-03	-4.16e-04	-0.04	2.26e-05	5.14e-06	0.0
849	48	-3.63e-03	-9.56e-04	-0.04	2.26e-05	-3.82e-06	0.0
849	56	-1.06e-03	-4.62e-03	-0.04	2.48e-05	0.0	0.0
849	69	8.11e-05	-4.44e-04	-0.04	2.18e-05	0.0	0.0
849	70	7.79e-05	-5.26e-04	-0.04	2.58e-05	0.0	0.0
849	71	8.11e-05	-4.44e-04	-0.04	2.18e-05	0.0	0.0
849	72	8.05e-05	-4.61e-04	-0.04	2.26e-05	0.0	0.0
850	1	1.09e-04	2.46e-04	-0.05	-1.22e-05	0.0	0.0
850	2	1.05e-04	2.98e-04	-0.05	-1.48e-05	0.0	0.0
850	15	-2.27e-03	1.36e-03	-0.04	-9.86e-06	-2.39e-06	0.0
850	17	2.44e-03	1.78e-04	-0.04	-9.82e-06	3.24e-06	0.0
850	21	7.78e-04	2.81e-03	-0.04	-1.11e-05	1.27e-06	0.0
850	47	-3.66e-03	2.06e-03	-0.04	-1.01e-05	-4.04e-06	0.0
850	49	3.83e-03	1.69e-04	-0.03	-1.01e-05	4.90e-06	0.0
850	53	1.19e-03	4.36e-03	-0.04	-1.22e-05	1.77e-06	0.0

850	69	8.22e-05	1.89e-04	-0.04	-9.37e-06	0.0	0.0
850	70	7.96e-05	2.23e-04	-0.04	-1.11e-05	0.0	0.0
850	71	8.22e-05	1.89e-04	-0.04	-9.37e-06	0.0	0.0
850	72	8.17e-05	1.96e-04	-0.04	-9.71e-06	0.0	0.0
851	1	1.09e-04	1.07e-03	-0.05	-5.28e-05	0.0	0.0
851	2	1.02e-04	1.30e-03	-0.05	-6.38e-05	0.0	0.0
851	15	-2.31e-03	2.00e-03	-0.04	-4.10e-05	-2.88e-06	0.0
851	17	2.49e-03	8.14e-04	-0.04	-4.12e-05	3.65e-06	0.0
851	21	7.56e-04	3.46e-03	-0.04	-4.29e-05	1.31e-06	0.0
851	47	-3.72e-03	2.69e-03	-0.04	-4.14e-05	-4.78e-06	0.0
851	49	3.91e-03	8.07e-04	-0.04	-4.15e-05	5.60e-06	0.0
851	53	1.16e-03	5.02e-03	-0.04	-4.44e-05	1.87e-06	0.0
851	69	8.19e-05	8.21e-04	-0.04	-4.05e-05	0.0	0.0
851	70	7.77e-05	9.71e-04	-0.04	-4.78e-05	0.0	0.0
851	71	8.19e-05	8.21e-04	-0.04	-4.05e-05	0.0	0.0
851	72	8.11e-05	8.51e-04	-0.04	-4.19e-05	0.0	0.0
852	1	1.05e-04	1.89e-03	-0.05	-9.29e-05	0.0	0.0
852	2	9.26e-05	2.29e-03	-0.05	-1.12e-04	-1.55e-06	0.0
852	15	-2.36e-03	2.63e-03	-0.04	-7.21e-05	-3.83e-06	0.0
852	17	2.54e-03	1.45e-03	-0.04	-7.23e-05	4.31e-06	0.0
852	21	7.36e-04	4.12e-03	-0.04	-7.53e-05	1.39e-06	0.0
852	47	-3.79e-03	3.33e-03	-0.04	-7.27e-05	-6.18e-06	0.0
852	49	4.00e-03	1.44e-03	-0.04	-7.29e-05	6.77e-06	0.0
852	53	1.12e-03	5.69e-03	-0.04	-7.76e-05	2.10e-06	0.0
852	69	7.92e-05	1.45e-03	-0.04	-7.13e-05	0.0	0.0
852	70	7.09e-05	1.71e-03	-0.04	-8.43e-05	-1.08e-06	0.0
852	71	7.92e-05	1.45e-03	-0.04	-7.13e-05	0.0	0.0
852	72	7.75e-05	1.50e-03	-0.04	-7.39e-05	0.0	0.0
853	1	9.50e-05	2.68e-03	-0.06	-1.32e-04	0.0	0.0
853	2	7.28e-05	3.26e-03	-0.06	-1.60e-04	-2.68e-06	0.0
853	17	2.61e-03	2.07e-03	-0.04	-1.03e-04	5.24e-06	0.0
853	21	7.15e-04	4.78e-03	-0.04	-1.08e-04	1.43e-06	0.0
853	27	-7.21e-04	4.77e-03	-0.04	-1.07e-04	-1.35e-06	0.0
853	49	4.10e-03	2.07e-03	-0.04	-1.04e-04	8.51e-06	0.0
853	53	1.10e-03	6.38e-03	-0.04	-1.11e-04	2.42e-06	0.0
853	59	-1.19e-03	6.37e-03	-0.04	-1.11e-04	-1.99e-06	0.0
853	69	7.16e-05	2.06e-03	-0.04	-1.01e-04	0.0	0.0
853	70	5.69e-05	2.44e-03	-0.05	-1.20e-04	-1.89e-06	0.0
853	71	7.16e-05	2.06e-03	-0.04	-1.01e-04	0.0	0.0
853	72	6.87e-05	2.13e-03	-0.04	-1.05e-04	0.0	0.0
854	1	8.05e-05	3.44e-03	-0.06	-1.68e-04	-1.36e-06	0.0
854	2	4.68e-05	4.18e-03	-0.07	-2.05e-04	-4.42e-06	0.0
854	17	2.68e-03	2.66e-03	-0.05	-1.32e-04	6.30e-06	0.0
854	21	6.93e-04	5.42e-03	-0.05	-1.39e-04	1.31e-06	0.0
854	27	-7.66e-04	5.42e-03	-0.05	-1.38e-04	-2.33e-06	0.0
854	49	4.22e-03	2.67e-03	-0.05	-1.33e-04	1.07e-05	0.0
854	53	1.07e-03	7.06e-03	-0.05	-1.44e-04	2.68e-06	0.0
854	59	-1.25e-03	7.06e-03	-0.05	-1.44e-04	-3.09e-06	0.0
854	69	6.07e-05	2.64e-03	-0.05	-1.29e-04	-1.11e-06	0.0
854	70	3.82e-05	3.13e-03	-0.05	-1.53e-04	-3.15e-06	0.0
854	71	6.07e-05	2.64e-03	-0.05	-1.29e-04	-1.11e-06	0.0
854	72	5.62e-05	2.74e-03	-0.05	-1.34e-04	-1.52e-06	0.0
855	1	1.96e-04	4.16e-03	-0.07	-2.02e-04	0.0	0.0
855	2	1.90e-04	5.08e-03	-0.08	-2.47e-04	-1.70e-06	0.0
855	17	2.90e-03	3.24e-03	-0.06	-1.59e-04	1.21e-05	0.0
855	21	8.07e-04	6.08e-03	-0.06	-1.70e-04	4.79e-06	0.0
855	27	-6.99e-04	6.07e-03	-0.06	-1.70e-04	0.0	0.0
855	49	4.51e-03	3.26e-03	-0.06	-1.61e-04	1.88e-05	0.0
855	53	1.20e-03	7.78e-03	-0.06	-1.79e-04	7.14e-06	0.0
855	59	-1.20e-03	7.77e-03	-0.06	-1.78e-04	-1.61e-06	0.0
855	69	1.50e-04	3.19e-03	-0.06	-1.55e-04	0.0	0.0
855	70	1.46e-04	3.81e-03	-0.06	-1.85e-04	-1.08e-06	0.0
855	71	1.50e-04	3.19e-03	-0.06	-1.55e-04	0.0	0.0
855	72	1.49e-04	3.31e-03	-0.06	-1.61e-04	0.0	0.0
856	2	-3.08e-04	5.55e-03	-0.09	-2.67e-04	-2.28e-05	0.0
856	20	-2.95e-03	3.41e-03	-0.06	-1.63e-04	-2.54e-05	0.0
856	23	-9.66e-04	6.23e-03	-0.07	-1.89e-04	-1.29e-05	0.0
856	27	-1.07e-03	6.50e-03	-0.07	-1.89e-04	-1.42e-05	0.0
856	52	-4.60e-03	3.39e-03	-0.06	-1.61e-04	-3.34e-05	0.0
856	55	-1.45e-03	7.87e-03	-0.07	-2.02e-04	-1.37e-05	0.0
856	59	-1.60e-03	8.29e-03	-0.07	-2.02e-04	-1.57e-05	0.0
856	70	-2.26e-04	4.15e-03	-0.07	-2.00e-04	-1.68e-05	0.0
856	72	-1.63e-04	3.59e-03	-0.07	-1.73e-04	-1.29e-05	0.0
857	2	-6.39e-04	-4.95e-03	-0.09	2.42e-04	-3.92e-05	0.0
857	11	-3.11e-03	-3.07e-03	-0.06	1.47e-04	-3.10e-05	0.0
857	22	3.38e-04	-5.78e-03	-0.07	1.70e-04	-2.07e-05	0.0

857	26	2.47e-04	-6.05e-03	-0.07	1.70e-04	-2.16e-05	0.0
857	43	-4.74e-03	-3.05e-03	-0.06	1.44e-04	-3.66e-05	0.0
857	54	7.42e-04	-7.35e-03	-0.07	1.80e-04	-2.02e-05	0.0
857	58	5.97e-04	-7.79e-03	-0.07	1.80e-04	-2.15e-05	0.0
857	70	-4.73e-04	-3.71e-03	-0.07	1.82e-04	-2.91e-05	0.0
857	72	-3.69e-04	-3.23e-03	-0.06	1.58e-04	-2.31e-05	0.0
858	2	-4.64e-04	-4.84e-03	-0.08	2.37e-04	-3.04e-05	0.0
858	11	-2.97e-03	-3.01e-03	-0.06	1.44e-04	-2.67e-05	0.0
858	22	4.54e-04	-5.69e-03	-0.06	1.65e-04	-1.21e-05	0.0
858	26	3.71e-04	-5.96e-03	-0.06	1.65e-04	-1.28e-05	0.0
858	43	-4.57e-03	-2.99e-03	-0.06	1.41e-04	-3.27e-05	0.0
858	54	8.66e-04	-7.25e-03	-0.06	1.75e-04	-9.57e-06	0.0
858	58	7.34e-04	-7.68e-03	-0.06	1.75e-04	-1.08e-05	0.0
858	70	-3.43e-04	-3.62e-03	-0.06	1.78e-04	-2.25e-05	0.0
858	72	-2.62e-04	-3.16e-03	-0.06	1.55e-04	-1.77e-05	0.0
859	2	-2.16e-04	-4.32e-03	-0.07	2.12e-04	-1.69e-05	0.0
859	11	-2.76e-03	-2.70e-03	-0.05	1.29e-04	-1.76e-05	0.0
859	22	6.16e-04	-5.30e-03	-0.05	1.47e-04	-4.71e-06	0.0
859	26	5.47e-04	-5.57e-03	-0.05	1.46e-04	-5.41e-06	0.0
859	43	-4.33e-03	-2.68e-03	-0.05	1.27e-04	-2.30e-05	0.0
859	54	1.04e-03	-6.81e-03	-0.05	1.54e-04	-2.54e-06	0.0
859	58	9.26e-04	-7.25e-03	-0.05	1.53e-04	-3.65e-06	0.0
859	70	-1.57e-04	-3.24e-03	-0.06	1.59e-04	-1.25e-05	0.0
859	72	-1.07e-04	-2.83e-03	-0.05	1.39e-04	-9.26e-06	0.0
860	2	-5.93e-05	-3.54e-03	-0.06	1.74e-04	-8.75e-06	0.0
860	4	-6.29e-05	-2.85e-03	-0.05	1.40e-04	-7.88e-06	0.0
860	11	-2.59e-03	-2.23e-03	-0.05	1.07e-04	-1.13e-05	0.0
860	26	6.46e-04	-5.01e-03	-0.05	1.18e-04	-1.31e-06	0.0
860	28	-7.59e-04	-4.72e-03	-0.05	1.18e-04	-4.56e-06	0.0
860	43	-4.12e-03	-2.23e-03	-0.05	1.05e-04	-1.57e-05	0.0
860	58	1.03e-03	-6.64e-03	-0.05	1.23e-04	0.0	0.0
860	60	-1.20e-03	-6.19e-03	-0.05	1.22e-04	-5.09e-06	0.0
860	70	-4.14e-05	-2.65e-03	-0.05	1.30e-04	-6.41e-06	0.0
860	72	-1.05e-05	-2.32e-03	-0.05	1.14e-04	-4.24e-06	0.0
861	1	6.11e-05	-2.18e-03	-0.05	1.07e-04	-1.57e-06	0.0
861	2	2.61e-05	-2.64e-03	-0.06	1.29e-04	-4.46e-06	0.0
861	10	2.56e-03	-1.66e-03	-0.04	8.46e-05	4.89e-06	0.0
861	26	7.06e-04	-4.38e-03	-0.04	8.75e-05	0.0	0.0
861	28	-6.98e-04	-4.10e-03	-0.04	8.69e-05	-2.28e-06	0.0
861	42	4.05e-03	-1.66e-03	-0.04	8.60e-05	8.54e-06	0.0
861	58	1.10e-03	-5.97e-03	-0.04	9.05e-05	1.60e-06	0.0
861	60	-1.14e-03	-5.53e-03	-0.04	8.96e-05	-2.86e-06	0.0
861	69	4.51e-05	-1.67e-03	-0.04	8.23e-05	-1.31e-06	0.0
861	70	2.17e-05	-1.98e-03	-0.04	9.71e-05	-3.24e-06	0.0
861	71	4.51e-05	-1.67e-03	-0.04	8.23e-05	-1.31e-06	0.0
861	72	4.04e-05	-1.73e-03	-0.04	8.52e-05	-1.70e-06	0.0
862	1	9.18e-05	-1.39e-03	-0.05	6.82e-05	0.0	0.0
862	2	7.01e-05	-1.68e-03	-0.05	8.23e-05	-2.29e-06	0.0
862	10	2.52e-03	-1.04e-03	-0.04	5.39e-05	4.99e-06	0.0
862	26	7.45e-04	-3.73e-03	-0.04	5.55e-05	1.32e-06	0.0
862	28	-6.63e-04	-3.46e-03	-0.04	5.52e-05	-1.22e-06	0.0
862	42	3.97e-03	-1.03e-03	-0.04	5.48e-05	8.04e-06	0.0
862	58	1.15e-03	-5.30e-03	-0.04	5.74e-05	2.19e-06	0.0
862	60	-1.09e-03	-4.86e-03	-0.04	5.68e-05	-1.84e-06	0.0
862	69	6.84e-05	-1.06e-03	-0.04	5.23e-05	0.0	0.0
862	70	5.40e-05	-1.26e-03	-0.04	6.17e-05	-1.65e-06	0.0
862	71	6.84e-05	-1.06e-03	-0.04	5.23e-05	0.0	0.0
862	72	6.55e-05	-1.10e-03	-0.04	5.42e-05	0.0	0.0
863	1	1.05e-04	-5.75e-04	-0.05	2.82e-05	0.0	0.0
863	2	9.01e-05	-6.95e-04	-0.05	3.40e-05	-1.34e-06	0.0
863	10	2.48e-03	-4.11e-04	-0.04	2.26e-05	4.77e-06	0.0
863	16	-2.29e-03	-7.42e-04	-0.04	2.20e-05	-3.75e-06	0.0
863	26	7.75e-04	-3.08e-03	-0.04	2.37e-05	1.62e-06	0.0
863	42	3.90e-03	-3.90e-04	-0.04	2.32e-05	7.40e-06	0.0
863	48	-3.68e-03	-9.19e-04	-0.04	2.22e-05	-6.15e-06	0.0
863	58	1.19e-03	-4.64e-03	-0.04	2.49e-05	2.40e-06	0.0
863	69	7.86e-05	-4.41e-04	-0.04	2.16e-05	0.0	0.0
863	70	6.86e-05	-5.21e-04	-0.04	2.55e-05	0.0	0.0
863	71	7.86e-05	-4.41e-04	-0.04	2.16e-05	0.0	0.0
863	72	7.66e-05	-4.57e-04	-0.04	2.24e-05	0.0	0.0
864	1	1.08e-04	2.43e-04	-0.05	-1.21e-05	0.0	0.0
864	2	9.44e-05	2.93e-04	-0.05	-1.46e-05	-1.19e-06	0.0
864	7	-2.28e-03	4.81e-04	-0.04	-9.62e-06	-3.71e-06	0.0
864	17	2.47e-03	1.60e-04	-0.04	-1.01e-05	4.65e-06	0.0
864	21	7.85e-04	2.83e-03	-0.04	-1.12e-05	1.67e-06	0.0
864	39	-3.68e-03	6.55e-04	-0.04	-9.81e-06	-6.12e-06	0.0

864	49	3.88e-03	1.41e-04	-0.04	-1.06e-05	7.18e-06	0.0
864	53	1.20e-03	4.38e-03	-0.04	-1.23e-05	2.42e-06	0.0
864	69	8.08e-05	1.86e-04	-0.04	-9.30e-06	0.0	0.0
864	70	7.17e-05	2.20e-04	-0.04	-1.10e-05	0.0	0.0
864	71	8.08e-05	1.86e-04	-0.04	-9.30e-06	0.0	0.0
864	72	7.90e-05	1.93e-04	-0.04	-9.63e-06	0.0	0.0
865	1	1.02e-04	1.06e-03	-0.05	-5.23e-05	0.0	0.0
865	2	8.42e-05	1.28e-03	-0.05	-6.31e-05	-1.79e-06	0.0
865	7	-2.28e-03	1.11e-03	-0.04	-4.05e-05	-3.98e-06	0.0
865	17	2.52e-03	7.94e-04	-0.04	-4.14e-05	4.91e-06	0.0
865	21	7.59e-04	3.47e-03	-0.04	-4.27e-05	1.47e-06	0.0
865	39	-3.66e-03	1.28e-03	-0.04	-4.07e-05	-6.37e-06	0.0
865	49	3.95e-03	7.79e-04	-0.04	-4.22e-05	7.75e-06	0.0
865	53	1.16e-03	5.03e-03	-0.04	-4.43e-05	2.28e-06	0.0
865	69	7.61e-05	8.12e-04	-0.04	-4.01e-05	0.0	0.0
865	70	6.44e-05	9.58e-04	-0.04	-4.73e-05	-1.28e-06	0.0
865	71	7.61e-05	8.12e-04	-0.04	-4.01e-05	0.0	0.0
865	72	7.37e-05	8.41e-04	-0.04	-4.16e-05	0.0	0.0
866	1	8.19e-05	1.86e-03	-0.05	-9.18e-05	0.0	0.0
866	2	5.45e-05	2.25e-03	-0.05	-1.11e-04	-3.38e-06	0.0
866	17	2.56e-03	1.42e-03	-0.04	-7.25e-05	4.98e-06	0.0
866	21	7.27e-04	4.12e-03	-0.04	-7.47e-05	0.0	0.0
866	23	-6.75e-04	3.84e-03	-0.04	-7.42e-05	-1.72e-06	0.0
866	49	4.03e-03	1.41e-03	-0.04	-7.36e-05	8.35e-06	0.0
866	53	1.12e-03	5.70e-03	-0.04	-7.72e-05	1.90e-06	0.0
866	55	-1.11e-03	5.25e-03	-0.04	-7.65e-05	-2.33e-06	0.0
866	69	6.10e-05	1.43e-03	-0.04	-7.04e-05	0.0	0.0
866	70	4.27e-05	1.69e-03	-0.04	-8.31e-05	-2.45e-06	0.0
866	71	6.10e-05	1.43e-03	-0.04	-7.04e-05	0.0	0.0
866	72	5.73e-05	1.48e-03	-0.04	-7.30e-05	-1.07e-06	0.0
867	1	3.76e-05	2.63e-03	-0.06	-1.30e-04	-3.14e-06	0.0
867	2	-7.62e-06	3.18e-03	-0.06	-1.57e-04	-6.64e-06	0.0
867	17	2.59e-03	2.02e-03	-0.04	-1.02e-04	4.41e-06	0.0
867	21	6.79e-04	4.76e-03	-0.04	-1.06e-04	0.0	0.0
867	23	-7.21e-04	4.47e-03	-0.04	-1.05e-04	-3.39e-06	0.0
867	49	4.10e-03	2.02e-03	-0.04	-1.04e-04	8.49e-06	0.0
867	53	1.07e-03	6.37e-03	-0.04	-1.10e-04	0.0	0.0
867	55	-1.16e-03	5.92e-03	-0.04	-1.09e-04	-3.94e-06	0.0
867	69	2.71e-05	2.02e-03	-0.04	-9.94e-05	-2.51e-06	0.0
867	70	-3.07e-06	2.38e-03	-0.05	-1.17e-04	-4.85e-06	0.0
867	71	2.71e-05	2.02e-03	-0.04	-9.94e-05	-2.51e-06	0.0
867	72	2.11e-05	2.09e-03	-0.04	-1.03e-04	-2.98e-06	0.0
868	2	-1.27e-04	4.02e-03	-0.07	-1.98e-04	-1.30e-05	0.0
868	20	-2.68e-03	2.51e-03	-0.05	-1.21e-04	-1.46e-05	0.0
868	21	6.03e-04	5.35e-03	-0.05	-1.36e-04	-3.35e-06	0.0
868	25	6.69e-04	5.08e-03	-0.05	-1.36e-04	-2.70e-06	0.0
868	52	-4.23e-03	2.50e-03	-0.05	-1.19e-04	-1.95e-05	0.0
868	53	9.84e-04	7.00e-03	-0.05	-1.42e-04	-1.75e-06	0.0
868	57	1.09e-03	6.57e-03	-0.05	-1.42e-04	0.0	0.0
868	70	-9.12e-05	3.01e-03	-0.05	-1.48e-04	-9.57e-06	0.0
868	72	-5.12e-05	2.63e-03	-0.05	-1.30e-04	-6.84e-06	0.0
869	2	-3.41e-04	4.66e-03	-0.08	-2.29e-04	-2.46e-05	0.0
869	20	-2.87e-03	2.90e-03	-0.06	-1.39e-04	-2.27e-05	0.0
869	21	4.56e-04	5.83e-03	-0.06	-1.59e-04	-9.71e-06	0.0
869	25	5.37e-04	5.56e-03	-0.06	-1.59e-04	-8.97e-06	0.0
869	52	-4.46e-03	2.88e-03	-0.06	-1.36e-04	-2.84e-05	0.0
869	53	8.26e-04	7.53e-03	-0.06	-1.68e-04	-7.89e-06	0.0
869	57	9.54e-04	7.10e-03	-0.06	-1.68e-04	-6.71e-06	0.0
869	70	-2.50e-04	3.49e-03	-0.06	-1.72e-04	-1.82e-05	0.0
869	72	-1.84e-04	3.05e-03	-0.06	-1.50e-04	-1.40e-05	0.0
870	2	-6.35e-04	4.93e-03	-0.09	-2.41e-04	-3.94e-05	0.0
870	20	-3.10e-03	3.05e-03	-0.06	-1.47e-04	-3.12e-05	0.0
870	21	2.42e-04	6.04e-03	-0.07	-1.69e-04	-2.18e-05	0.0
870	25	3.36e-04	5.76e-03	-0.07	-1.69e-04	-2.09e-05	0.0
870	52	-4.73e-03	3.03e-03	-0.06	-1.43e-04	-3.68e-05	0.0
870	53	5.87e-04	7.77e-03	-0.07	-1.79e-04	-2.17e-05	0.0
870	57	7.36e-04	7.33e-03	-0.07	-1.79e-04	-2.04e-05	0.0
870	70	-4.70e-04	3.69e-03	-0.07	-1.81e-04	-2.92e-05	0.0
870	72	-3.67e-04	3.21e-03	-0.06	-1.58e-04	-2.32e-05	0.0
871	2	-5.02e-04	-4.64e-03	-0.09	2.29e-04	-3.17e-05	0.0
871	11	-3.02e-03	-2.91e-03	-0.06	1.38e-04	-2.59e-05	0.0
871	22	4.44e-04	-5.59e-03	-0.07	1.61e-04	-1.07e-05	0.0
871	26	3.52e-04	-5.87e-03	-0.07	1.61e-04	-1.14e-05	0.0
871	43	-4.66e-03	-2.90e-03	-0.06	1.35e-04	-3.16e-05	0.0
871	54	8.50e-04	-7.15e-03	-0.07	1.71e-04	-7.57e-06	0.0
871	58	7.05e-04	-7.60e-03	-0.07	1.71e-04	-8.78e-06	0.0

871	70	-3.68e-04	-3.48e-03	-0.07	1.71e-04	-2.33e-05	0.0
871	72	-2.68e-04	-3.05e-03	-0.06	1.50e-04	-1.76e-05	0.0
872	2	-3.83e-04	-4.53e-03	-0.08	2.23e-04	-2.56e-05	0.0
872	11	-2.92e-03	-2.84e-03	-0.06	1.35e-04	-2.36e-05	0.0
872	22	5.23e-04	-5.49e-03	-0.06	1.57e-04	-8.12e-06	0.0
872	26	4.39e-04	-5.78e-03	-0.06	1.56e-04	-8.86e-06	0.0
872	43	-4.53e-03	-2.83e-03	-0.06	1.31e-04	-3.00e-05	0.0
872	54	9.37e-04	-7.04e-03	-0.06	1.66e-04	-5.50e-06	0.0
872	58	8.04e-04	-7.50e-03	-0.06	1.65e-04	-6.68e-06	0.0
872	70	-2.80e-04	-3.40e-03	-0.06	1.67e-04	-1.88e-05	0.0
872	72	-1.96e-04	-2.97e-03	-0.06	1.47e-04	-1.39e-05	0.0
873	2	-1.93e-04	-4.10e-03	-0.07	2.02e-04	-1.58e-05	0.0
873	11	-2.75e-03	-2.58e-03	-0.05	1.23e-04	-1.71e-05	0.0
873	22	6.40e-04	-5.17e-03	-0.05	1.41e-04	-3.39e-06	0.0
873	26	5.69e-04	-5.45e-03	-0.05	1.40e-04	-4.09e-06	0.0
873	43	-4.33e-03	-2.57e-03	-0.05	1.19e-04	-2.30e-05	0.0
873	54	1.06e-03	-6.68e-03	-0.05	1.48e-04	-1.20e-06	0.0
873	58	9.48e-04	-7.13e-03	-0.05	1.47e-04	-2.33e-06	0.0
873	70	-1.40e-04	-3.07e-03	-0.05	1.51e-04	-1.16e-05	0.0
873	72	-8.28e-05	-2.70e-03	-0.05	1.33e-04	-8.06e-06	0.0
874	2	-5.82e-05	-3.41e-03	-0.06	1.68e-04	-8.82e-06	0.0
874	4	-6.61e-05	-2.74e-03	-0.05	1.35e-04	-8.14e-06	0.0
874	10	2.63e-03	-2.17e-03	-0.05	1.12e-04	5.71e-06	0.0
874	22	7.17e-04	-4.67e-03	-0.05	1.16e-04	0.0	0.0
874	26	6.61e-04	-4.95e-03	-0.05	1.16e-04	0.0	0.0
874	42	4.17e-03	-2.17e-03	-0.05	1.14e-04	1.10e-05	0.0
874	54	1.14e-03	-6.14e-03	-0.05	1.21e-04	1.84e-06	0.0
874	58	1.05e-03	-6.59e-03	-0.05	1.21e-04	0.0	0.0
874	70	-3.98e-05	-2.56e-03	-0.05	1.26e-04	-6.42e-06	0.0
874	71	7.02e-06	-2.17e-03	-0.05	1.07e-04	-3.29e-06	0.0
874	72	-2.34e-06	-2.25e-03	-0.05	1.11e-04	-3.91e-06	0.0
875	1	6.85e-05	-2.13e-03	-0.05	1.05e-04	-1.25e-06	0.0
875	2	2.20e-05	-2.57e-03	-0.05	1.26e-04	-4.73e-06	0.0
875	10	2.60e-03	-1.62e-03	-0.04	8.40e-05	6.80e-06	0.0
875	22	7.59e-04	-4.08e-03	-0.04	8.64e-05	1.60e-06	0.0
875	26	7.18e-04	-4.36e-03	-0.04	8.61e-05	1.11e-06	0.0
875	42	4.11e-03	-1.61e-03	-0.04	8.61e-05	1.15e-05	0.0
875	54	1.18e-03	-5.52e-03	-0.04	8.98e-05	3.18e-06	0.0
875	58	1.11e-03	-5.97e-03	-0.04	8.94e-05	2.40e-06	0.0
875	69	5.02e-05	-1.64e-03	-0.04	8.06e-05	-1.09e-06	0.0
875	70	1.91e-05	-1.93e-03	-0.04	9.47e-05	-3.41e-06	0.0
875	71	5.02e-05	-1.64e-03	-0.04	8.06e-05	-1.09e-06	0.0
875	72	4.40e-05	-1.69e-03	-0.04	8.34e-05	-1.56e-06	0.0
876	1	9.69e-05	-1.37e-03	-0.05	6.72e-05	0.0	0.0
876	2	6.46e-05	-1.64e-03	-0.05	8.07e-05	-2.58e-06	0.0
876	10	2.56e-03	-1.02e-03	-0.04	5.40e-05	6.86e-06	0.0
876	22	7.82e-04	-3.45e-03	-0.04	5.52e-05	2.22e-06	0.0
876	26	7.57e-04	-3.73e-03	-0.04	5.49e-05	1.91e-06	0.0
876	42	4.03e-03	-9.98e-04	-0.04	5.54e-05	1.09e-05	0.0
876	54	1.20e-03	-4.86e-03	-0.04	5.74e-05	3.54e-06	0.0
876	58	1.16e-03	-5.31e-03	-0.04	5.69e-05	3.03e-06	0.0
876	69	7.18e-05	-1.05e-03	-0.04	5.16e-05	0.0	0.0
876	70	5.03e-05	-1.23e-03	-0.04	6.06e-05	-1.84e-06	0.0
876	71	7.18e-05	-1.05e-03	-0.04	5.16e-05	0.0	0.0
876	72	6.75e-05	-1.08e-03	-0.04	5.34e-05	0.0	0.0
877	1	1.09e-04	-5.69e-04	-0.05	2.79e-05	0.0	0.0
877	2	8.41e-05	-6.84e-04	-0.05	3.34e-05	-1.63e-06	0.0
877	6	2.50e-03	-7.24e-04	-0.04	2.31e-05	6.54e-06	0.0
877	10	2.52e-03	-3.94e-04	-0.04	2.29e-05	6.55e-06	0.0
877	26	7.87e-04	-3.10e-03	-0.04	2.36e-05	2.23e-06	0.0
877	38	3.93e-03	-8.94e-04	-0.04	2.42e-05	1.01e-05	0.0
877	42	3.95e-03	-3.65e-04	-0.04	2.39e-05	1.01e-05	0.0
877	58	1.20e-03	-4.66e-03	-0.04	2.48e-05	3.28e-06	0.0
877	69	8.12e-05	-4.36e-04	-0.04	2.14e-05	0.0	0.0
877	70	6.44e-05	-5.13e-04	-0.04	2.51e-05	-1.15e-06	0.0
877	71	8.12e-05	-4.36e-04	-0.04	2.14e-05	0.0	0.0
877	72	7.79e-05	-4.52e-04	-0.04	2.21e-05	0.0	0.0
878	1	1.12e-04	2.39e-04	-0.05	-1.20e-05	0.0	0.0
878	2	8.83e-05	2.87e-04	-0.05	-1.44e-05	-1.48e-06	0.0
878	13	2.50e-03	4.73e-04	-0.04	-1.06e-05	6.42e-06	0.0
878	17	2.51e-03	1.43e-04	-0.04	-1.04e-05	6.40e-06	0.0
878	21	7.97e-04	2.84e-03	-0.04	-1.12e-05	2.29e-06	0.0
878	45	3.92e-03	6.44e-04	-0.04	-1.15e-05	9.90e-06	0.0
878	49	3.93e-03	1.15e-04	-0.04	-1.12e-05	9.88e-06	0.0
878	53	1.22e-03	4.40e-03	-0.04	-1.24e-05	3.32e-06	0.0
878	69	8.34e-05	1.83e-04	-0.04	-9.20e-06	0.0	0.0

878	70	6.75e-05	2.15e-04	-0.04	-1.08e-05	-1.05e-06	0.0
878	71	8.34e-05	1.83e-04	-0.04	-9.20e-06	0.0	0.0
878	72	8.02e-05	1.89e-04	-0.04	-9.52e-06	0.0	0.0
879	1	1.06e-04	1.04e-03	-0.05	-5.16e-05	0.0	0.0
879	2	7.84e-05	1.25e-03	-0.05	-6.20e-05	-2.09e-06	0.0
879	13	2.52e-03	1.10e-03	-0.04	-4.19e-05	6.75e-06	0.0
879	17	2.55e-03	7.71e-04	-0.04	-4.16e-05	6.73e-06	0.0
879	21	7.71e-04	3.47e-03	-0.04	-4.24e-05	2.07e-06	0.0
879	45	3.96e-03	1.28e-03	-0.04	-4.33e-05	1.06e-05	0.0
879	49	4.01e-03	7.51e-04	-0.04	-4.28e-05	1.06e-05	0.0
879	53	1.18e-03	5.05e-03	-0.04	-4.40e-05	3.13e-06	0.0
879	69	7.91e-05	7.99e-04	-0.04	-3.96e-05	0.0	0.0
879	70	6.04e-05	9.39e-04	-0.04	-4.65e-05	-1.49e-06	0.0
879	71	7.91e-05	7.99e-04	-0.04	-3.96e-05	0.0	0.0
879	72	7.53e-05	8.27e-04	-0.04	-4.10e-05	0.0	0.0
880	1	8.79e-05	1.82e-03	-0.05	-9.02e-05	0.0	0.0
880	2	4.93e-05	2.19e-03	-0.05	-1.08e-04	-3.69e-06	0.0
880	17	2.60e-03	1.38e-03	-0.04	-7.22e-05	6.84e-06	0.0
880	21	7.38e-04	4.11e-03	-0.04	-7.37e-05	1.50e-06	0.0
880	25	7.77e-04	3.82e-03	-0.04	-7.40e-05	1.93e-06	0.0
880	49	4.09e-03	1.37e-03	-0.04	-7.39e-05	1.12e-05	0.0
880	53	1.14e-03	5.70e-03	-0.04	-7.64e-05	2.69e-06	0.0
880	57	1.20e-03	5.25e-03	-0.04	-7.69e-05	3.38e-06	0.0
880	69	6.50e-05	1.40e-03	-0.04	-6.92e-05	0.0	0.0
880	70	3.93e-05	1.65e-03	-0.04	-8.13e-05	-2.65e-06	0.0
880	71	6.50e-05	1.40e-03	-0.04	-6.92e-05	0.0	0.0
880	72	5.99e-05	1.45e-03	-0.04	-7.16e-05	0.0	0.0
881	1	4.66e-05	2.55e-03	-0.06	-1.26e-04	-2.77e-06	0.0
881	2	-1.09e-05	3.07e-03	-0.06	-1.52e-04	-6.91e-06	0.0
881	17	2.63e-03	1.96e-03	-0.04	-1.01e-04	6.18e-06	0.0
881	21	6.91e-04	4.72e-03	-0.04	-1.04e-04	0.0	0.0
881	25	7.45e-04	4.43e-03	-0.04	-1.04e-04	0.0	0.0
881	49	4.16e-03	1.96e-03	-0.04	-1.03e-04	1.12e-05	0.0
881	53	1.08e-03	6.34e-03	-0.04	-1.08e-04	1.58e-06	0.0
881	57	1.17e-03	5.89e-03	-0.04	-1.09e-04	2.50e-06	0.0
881	69	3.35e-05	1.96e-03	-0.04	-9.68e-05	-2.25e-06	0.0
881	70	-4.88e-06	2.31e-03	-0.05	-1.14e-04	-5.02e-06	0.0
881	71	3.35e-05	1.96e-03	-0.04	-9.68e-05	-2.25e-06	0.0
881	72	2.58e-05	2.03e-03	-0.04	-1.00e-04	-2.81e-06	0.0
882	2	-1.21e-04	3.83e-03	-0.07	-1.89e-04	-1.27e-05	0.0
882	20	-2.69e-03	2.41e-03	-0.05	-1.15e-04	-1.49e-05	0.0
882	21	6.16e-04	5.26e-03	-0.05	-1.31e-04	-2.55e-06	0.0
882	25	6.84e-04	4.98e-03	-0.05	-1.31e-04	-1.87e-06	0.0
882	52	-4.26e-03	2.41e-03	-0.05	-1.12e-04	-2.04e-05	0.0
882	53	9.96e-04	6.93e-03	-0.05	-1.37e-04	0.0	0.0
882	57	1.10e-03	6.47e-03	-0.05	-1.38e-04	0.0	0.0
882	70	-8.57e-05	2.87e-03	-0.05	-1.42e-04	-9.28e-06	0.0
882	72	-3.86e-05	2.52e-03	-0.05	-1.25e-04	-6.21e-06	0.0
883	2	-2.90e-04	4.37e-03	-0.08	-2.16e-04	-2.15e-05	0.0
883	20	-2.84e-03	2.74e-03	-0.05	-1.31e-04	-2.08e-05	0.0
883	21	5.00e-04	5.66e-03	-0.06	-1.51e-04	-6.90e-06	0.0
883	25	5.81e-04	5.38e-03	-0.06	-1.51e-04	-6.17e-06	0.0
883	52	-4.44e-03	2.72e-03	-0.05	-1.27e-04	-2.69e-05	0.0
883	53	8.68e-04	7.37e-03	-0.06	-1.59e-04	-4.95e-06	0.0
883	57	9.98e-04	6.91e-03	-0.06	-1.59e-04	-3.78e-06	0.0
883	70	-2.11e-04	3.28e-03	-0.06	-1.62e-04	-1.58e-05	0.0
883	72	-1.40e-04	2.87e-03	-0.06	-1.42e-04	-1.15e-05	0.0
884	2	-4.91e-04	4.61e-03	-0.09	-2.28e-04	-3.17e-05	0.0
884	20	-3.01e-03	2.88e-03	-0.06	-1.38e-04	-2.60e-05	0.0
884	21	3.55e-04	5.86e-03	-0.07	-1.60e-04	-1.14e-05	0.0
884	25	4.49e-04	5.57e-03	-0.07	-1.60e-04	-1.06e-05	0.0
884	52	-4.65e-03	2.87e-03	-0.06	-1.34e-04	-3.18e-05	0.0
884	53	7.05e-04	7.58e-03	-0.07	-1.70e-04	-8.77e-06	0.0
884	57	8.55e-04	7.13e-03	-0.07	-1.70e-04	-7.54e-06	0.0
884	70	-3.60e-04	3.46e-03	-0.07	-1.71e-04	-2.34e-05	0.0
884	72	-2.61e-04	3.03e-03	-0.06	-1.49e-04	-1.76e-05	0.0
885	2	-1.06e-04	-4.49e-03	-0.09	2.21e-04	-1.14e-05	0.0
885	4	-1.17e-04	-3.62e-03	-0.07	1.78e-04	-1.08e-05	0.0
885	10	2.86e-03	-2.88e-03	-0.06	1.48e-04	1.19e-05	0.0
885	22	7.42e-04	-5.50e-03	-0.06	1.57e-04	3.38e-06	0.0
885	26	6.45e-04	-5.80e-03	-0.06	1.57e-04	2.42e-06	0.0
885	42	4.53e-03	-2.88e-03	-0.07	1.53e-04	2.04e-05	0.0
885	54	1.17e-03	-7.05e-03	-0.07	1.67e-04	6.82e-06	0.0
885	58	1.02e-03	-7.53e-03	-0.07	1.66e-04	5.29e-06	0.0
885	70	-6.97e-05	-3.37e-03	-0.07	1.66e-04	-8.04e-06	0.0
885	71	2.02e-05	-2.86e-03	-0.06	1.41e-04	-2.65e-06	0.0

885	72	2.20e-06	-2.96e-03	-0.06	1.46e-04	-3.73e-06	0.0
886	2	-6.78e-05	-4.38e-03	-0.08	2.16e-04	-9.57e-06	0.0
886	4	-8.39e-05	-3.53e-03	-0.06	1.74e-04	-9.26e-06	0.0
886	10	2.84e-03	-2.81e-03	-0.06	1.45e-04	1.18e-05	0.0
886	22	7.56e-04	-5.41e-03	-0.06	1.53e-04	3.41e-06	0.0
886	26	6.67e-04	-5.71e-03	-0.06	1.53e-04	2.46e-06	0.0
886	42	4.49e-03	-2.81e-03	-0.06	1.49e-04	1.99e-05	0.0
886	54	1.18e-03	-6.95e-03	-0.06	1.62e-04	6.48e-06	0.0
886	58	1.04e-03	-7.43e-03	-0.06	1.61e-04	4.97e-06	0.0
886	70	-4.21e-05	-3.29e-03	-0.06	1.62e-04	-6.73e-06	0.0
886	71	3.62e-05	-2.79e-03	-0.06	1.38e-04	-1.93e-06	0.0
886	72	2.05e-05	-2.89e-03	-0.06	1.43e-04	-2.89e-06	0.0
887	1	8.08e-05	-3.31e-03	-0.07	1.63e-04	0.0	0.0
887	2	-9.00e-06	-3.98e-03	-0.07	1.96e-04	-6.66e-06	0.0
887	10	2.80e-03	-2.55e-03	-0.05	1.32e-04	1.17e-05	0.0
887	22	7.79e-04	-5.10e-03	-0.05	1.38e-04	3.62e-06	0.0
887	26	7.04e-04	-5.41e-03	-0.05	1.37e-04	2.72e-06	0.0
887	42	4.41e-03	-2.55e-03	-0.05	1.36e-04	1.90e-05	0.0
887	54	1.21e-03	-6.61e-03	-0.05	1.45e-04	6.20e-06	0.0
887	58	1.09e-03	-7.09e-03	-0.05	1.44e-04	4.77e-06	0.0
887	69	5.97e-05	-2.54e-03	-0.05	1.25e-04	0.0	0.0
887	70	0.0	-2.98e-03	-0.05	1.47e-04	-4.66e-06	0.0
887	71	5.97e-05	-2.54e-03	-0.05	1.25e-04	0.0	0.0
887	72	4.78e-05	-2.63e-03	-0.05	1.30e-04	-1.58e-06	0.0
888	1	1.02e-04	-2.78e-03	-0.06	1.37e-04	0.0	0.0
888	2	3.45e-05	-3.33e-03	-0.06	1.64e-04	-4.37e-06	0.0
888	6	2.66e-03	-2.47e-03	-0.05	1.12e-04	1.12e-05	0.0
888	10	2.74e-03	-2.13e-03	-0.05	1.11e-04	1.13e-05	0.0
888	26	7.35e-04	-4.93e-03	-0.05	1.14e-04	2.98e-06	0.0
888	38	4.18e-03	-2.67e-03	-0.05	1.16e-04	1.78e-05	0.0
888	42	4.32e-03	-2.12e-03	-0.05	1.14e-04	1.80e-05	0.0
888	58	1.13e-03	-6.58e-03	-0.05	1.19e-04	4.71e-06	0.0
888	69	7.55e-05	-2.13e-03	-0.05	1.05e-04	0.0	0.0
888	70	3.07e-05	-2.50e-03	-0.05	1.23e-04	-3.03e-06	0.0
888	71	7.55e-05	-2.13e-03	-0.05	1.05e-04	0.0	0.0
888	72	6.65e-05	-2.20e-03	-0.05	1.09e-04	0.0	0.0
889	1	1.12e-04	-2.10e-03	-0.05	1.04e-04	0.0	0.0
889	2	6.12e-05	-2.52e-03	-0.05	1.24e-04	-2.89e-06	0.0
889	6	2.62e-03	-1.93e-03	-0.04	8.48e-05	1.04e-05	0.0
889	10	2.68e-03	-1.60e-03	-0.04	8.42e-05	1.05e-05	0.0
889	26	7.59e-04	-4.36e-03	-0.04	8.54e-05	3.06e-06	0.0
889	38	4.12e-03	-2.12e-03	-0.04	8.79e-05	1.63e-05	0.0
889	42	4.21e-03	-1.58e-03	-0.04	8.69e-05	1.64e-05	0.0
889	58	1.16e-03	-5.98e-03	-0.04	8.88e-05	4.57e-06	0.0
889	69	8.32e-05	-1.61e-03	-0.04	7.96e-05	0.0	0.0
889	70	4.92e-05	-1.89e-03	-0.04	9.32e-05	-2.00e-06	0.0
889	71	8.32e-05	-1.61e-03	-0.04	7.96e-05	0.0	0.0
889	72	7.64e-05	-1.67e-03	-0.04	8.23e-05	0.0	0.0
890	1	1.16e-04	-1.35e-03	-0.05	6.66e-05	1.07e-06	0.0
890	2	7.50e-05	-1.62e-03	-0.05	7.97e-05	-2.11e-06	0.0
890	6	2.58e-03	-1.33e-03	-0.04	5.49e-05	9.42e-06	0.0
890	10	2.62e-03	-1.00e-03	-0.04	5.46e-05	9.45e-06	0.0
890	26	7.79e-04	-3.74e-03	-0.04	5.47e-05	3.00e-06	0.0
890	38	4.05e-03	-1.51e-03	-0.04	5.72e-05	1.46e-05	0.0
890	42	4.11e-03	-9.79e-04	-0.04	5.66e-05	1.46e-05	0.0
890	58	1.19e-03	-5.33e-03	-0.04	5.68e-05	4.38e-06	0.0
890	69	8.58e-05	-1.04e-03	-0.04	5.11e-05	0.0	0.0
890	70	5.86e-05	-1.22e-03	-0.04	5.98e-05	-1.47e-06	0.0
890	71	8.58e-05	-1.04e-03	-0.04	5.11e-05	0.0	0.0
890	72	8.03e-05	-1.07e-03	-0.04	5.29e-05	0.0	0.0
891	1	1.17e-04	-5.66e-04	-0.05	2.77e-05	1.13e-06	0.0
891	2	8.14e-05	-6.77e-04	-0.05	3.31e-05	-1.78e-06	0.0
891	6	2.54e-03	-7.10e-04	-0.04	2.37e-05	8.55e-06	0.0
891	10	2.56e-03	-3.82e-04	-0.04	2.35e-05	8.56e-06	0.0
891	26	8.01e-04	-3.11e-03	-0.04	2.36e-05	2.97e-06	0.0
891	38	3.99e-03	-8.72e-04	-0.04	2.52e-05	1.32e-05	0.0
891	42	4.02e-03	-3.47e-04	-0.04	2.48e-05	1.32e-05	0.0
891	58	1.22e-03	-4.68e-03	-0.04	2.49e-05	4.31e-06	0.0
891	69	8.64e-05	-4.34e-04	-0.04	2.12e-05	0.0	0.0
891	70	6.28e-05	-5.08e-04	-0.04	2.48e-05	-1.24e-06	0.0
891	71	8.64e-05	-4.34e-04	-0.04	2.12e-05	0.0	0.0
891	72	8.17e-05	-4.49e-04	-0.04	2.20e-05	0.0	0.0
892	1	1.18e-04	2.36e-04	-0.05	-1.19e-05	1.13e-06	0.0
892	2	8.36e-05	2.82e-04	-0.05	-1.42e-05	-1.73e-06	0.0
892	13	2.54e-03	4.57e-04	-0.04	-1.11e-05	8.34e-06	0.0
892	17	2.54e-03	1.29e-04	-0.04	-1.10e-05	8.32e-06	0.0

892	21	8.11e-04	2.85e-03	-0.04	-1.08e-05	2.99e-06	0.0
892	45	3.98e-03	6.19e-04	-0.04	-1.23e-05	1.28e-05	0.0
892	49	3.99e-03	9.47e-05	-0.04	-1.20e-05	1.28e-05	0.0
892	53	1.24e-03	4.43e-03	-0.04	-1.17e-05	4.33e-06	0.0
892	69	8.72e-05	1.81e-04	-0.04	-9.14e-06	0.0	0.0
892	70	6.44e-05	2.12e-04	-0.04	-1.07e-05	-1.21e-06	0.0
892	71	8.72e-05	1.81e-04	-0.04	-9.14e-06	0.0	0.0
892	72	8.26e-05	1.87e-04	-0.04	-9.45e-06	0.0	0.0
893	1	1.19e-04	1.03e-03	-0.05	-5.12e-05	1.10e-06	0.0
893	2	8.21e-05	1.23e-03	-0.05	-6.12e-05	-1.94e-06	0.0
893	13	2.57e-03	1.09e-03	-0.04	-4.25e-05	9.06e-06	0.0
893	17	2.60e-03	7.57e-04	-0.04	-4.22e-05	9.03e-06	0.0
893	21	7.89e-04	3.48e-03	-0.04	-4.22e-05	2.99e-06	0.0
893	45	4.03e-03	1.26e-03	-0.04	-4.44e-05	1.40e-05	0.0
893	49	4.08e-03	7.32e-04	-0.04	-4.39e-05	1.40e-05	0.0
893	53	1.20e-03	5.07e-03	-0.04	-4.39e-05	4.33e-06	0.0
893	69	8.85e-05	7.92e-04	-0.04	-3.93e-05	0.0	0.0
893	70	6.36e-05	9.27e-04	-0.04	-4.60e-05	-1.36e-06	0.0
893	71	8.85e-05	7.92e-04	-0.04	-3.93e-05	0.0	0.0
893	72	8.36e-05	8.19e-04	-0.04	-4.06e-05	0.0	0.0
894	1	1.20e-04	1.80e-03	-0.05	-8.92e-05	0.0	0.0
894	2	7.45e-05	2.16e-03	-0.05	-1.07e-04	-2.54e-06	0.0
894	13	2.61e-03	1.70e-03	-0.04	-7.30e-05	1.00e-05	0.0
894	17	2.66e-03	1.36e-03	-0.04	-7.25e-05	1.00e-05	0.0
894	21	7.70e-04	4.11e-03	-0.04	-7.32e-05	3.05e-06	0.0
894	45	4.10e-03	1.88e-03	-0.04	-7.57e-05	1.56e-05	0.0
894	49	4.18e-03	1.35e-03	-0.04	-7.49e-05	1.56e-05	0.0
894	53	1.17e-03	5.71e-03	-0.04	-7.60e-05	4.49e-06	0.0
894	69	8.88e-05	1.38e-03	-0.04	-6.84e-05	0.0	0.0
894	70	5.88e-05	1.62e-03	-0.04	-8.01e-05	-1.76e-06	0.0
894	71	8.88e-05	1.38e-03	-0.04	-6.84e-05	0.0	0.0
894	72	8.28e-05	1.43e-03	-0.04	-7.08e-05	0.0	0.0
895	1	1.14e-04	2.51e-03	-0.06	-1.24e-04	0.0	0.0
895	2	5.59e-05	3.01e-03	-0.06	-1.49e-04	-3.73e-06	0.0
895	13	2.65e-03	2.26e-03	-0.04	-1.01e-04	1.09e-05	0.0
895	17	2.73e-03	1.92e-03	-0.04	-1.00e-04	1.09e-05	0.0
895	21	7.49e-04	4.70e-03	-0.04	-1.03e-04	3.03e-06	0.0
895	45	4.17e-03	2.46e-03	-0.05	-1.05e-04	1.72e-05	0.0
895	49	4.29e-03	1.92e-03	-0.04	-1.03e-04	1.72e-05	0.0
895	53	1.14e-03	6.34e-03	-0.04	-1.07e-04	4.64e-06	0.0
895	69	8.50e-05	1.92e-03	-0.04	-9.53e-05	0.0	0.0
895	70	4.60e-05	2.26e-03	-0.04	-1.12e-04	-2.59e-06	0.0
895	71	8.50e-05	1.92e-03	-0.04	-9.53e-05	0.0	0.0
895	72	7.72e-05	1.99e-03	-0.04	-9.86e-05	0.0	0.0
896	1	9.91e-05	3.10e-03	-0.06	-1.54e-04	0.0	0.0
896	2	2.10e-05	3.73e-03	-0.07	-1.84e-04	-5.70e-06	0.0
896	13	2.69e-03	2.74e-03	-0.05	-1.25e-04	1.13e-05	0.0
896	17	2.79e-03	2.39e-03	-0.05	-1.24e-04	1.14e-05	0.0
896	21	7.21e-04	5.22e-03	-0.05	-1.29e-04	2.84e-06	0.0
896	45	4.23e-03	2.95e-03	-0.05	-1.29e-04	1.82e-05	0.0
896	49	4.39e-03	2.39e-03	-0.05	-1.28e-04	1.83e-05	0.0
896	53	1.10e-03	6.90e-03	-0.05	-1.35e-04	4.72e-06	0.0
896	69	7.36e-05	2.38e-03	-0.05	-1.18e-04	0.0	0.0
896	70	2.16e-05	2.80e-03	-0.05	-1.38e-04	-3.98e-06	0.0
896	71	7.36e-05	2.38e-03	-0.05	-1.18e-04	0.0	0.0
896	72	6.32e-05	2.46e-03	-0.05	-1.22e-04	-1.17e-06	0.0
897	1	7.27e-05	3.52e-03	-0.07	-1.74e-04	-1.77e-06	0.0
897	2	-3.11e-05	4.23e-03	-0.08	-2.09e-04	-8.38e-06	0.0
897	17	2.83e-03	2.72e-03	-0.06	-1.40e-04	1.15e-05	0.0
897	21	6.86e-04	5.60e-03	-0.06	-1.47e-04	2.58e-06	0.0
897	25	7.73e-04	5.30e-03	-0.06	-1.48e-04	3.52e-06	0.0
897	49	4.47e-03	2.73e-03	-0.06	-1.44e-04	1.92e-05	0.0
897	53	1.06e-03	7.31e-03	-0.06	-1.55e-04	4.86e-06	0.0
897	57	1.20e-03	6.83e-03	-0.06	-1.56e-04	6.35e-06	0.0
897	69	5.37e-05	2.70e-03	-0.06	-1.34e-04	-1.47e-06	0.0
897	70	-1.54e-05	3.17e-03	-0.06	-1.57e-04	-5.88e-06	0.0
897	71	5.37e-05	2.70e-03	-0.06	-1.34e-04	-1.47e-06	0.0
897	72	3.99e-05	2.79e-03	-0.06	-1.38e-04	-2.36e-06	0.0
898	2	-9.33e-05	4.46e-03	-0.09	-2.20e-04	-1.14e-05	0.0
898	4	-1.06e-04	3.59e-03	-0.07	-1.77e-04	-1.09e-05	0.0
898	17	2.87e-03	2.87e-03	-0.06	-1.48e-04	1.18e-05	0.0
898	21	6.49e-04	5.78e-03	-0.06	-1.56e-04	2.47e-06	0.0
898	25	7.48e-04	5.48e-03	-0.06	-1.56e-04	3.45e-06	0.0
898	49	4.54e-03	2.88e-03	-0.07	-1.52e-04	2.02e-05	0.0
898	53	1.02e-03	7.51e-03	-0.07	-1.65e-04	5.32e-06	0.0
898	57	1.17e-03	7.03e-03	-0.07	-1.66e-04	6.88e-06	0.0

898	70	-6.00e-05	3.35e-03	-0.07	-1.65e-04	-8.05e-06	0.0
898	71	2.83e-05	2.84e-03	-0.06	-1.40e-04	-2.66e-06	0.0
898	72	1.07e-05	2.94e-03	-0.06	-1.45e-04	-3.74e-06	0.0
899	1	4.07e-04	-3.77e-03	-0.08	1.86e-04	1.61e-05	0.0
899	2	3.37e-04	-4.53e-03	-0.09	2.22e-04	1.13e-05	0.0
899	10	3.27e-03	-2.91e-03	-0.07	1.51e-04	3.22e-05	0.0
899	22	1.08e-03	-5.55e-03	-0.07	1.60e-04	2.00e-05	0.0
899	26	9.70e-04	-5.87e-03	-0.07	1.59e-04	1.85e-05	0.0
899	42	5.02e-03	-2.91e-03	-0.07	1.56e-04	4.40e-05	0.0
899	54	1.53e-03	-7.11e-03	-0.07	1.70e-04	2.44e-05	0.0
899	58	1.36e-03	-7.62e-03	-0.07	1.69e-04	2.21e-05	0.0
899	69	3.11e-04	-2.90e-03	-0.06	1.42e-04	1.22e-05	0.0
899	70	2.64e-04	-3.40e-03	-0.07	1.67e-04	9.05e-06	0.0
899	71	3.11e-04	-2.90e-03	-0.06	1.42e-04	1.22e-05	0.0
899	72	3.02e-04	-3.00e-03	-0.06	1.47e-04	1.16e-05	0.0
900	1	3.60e-04	-3.68e-03	-0.08	1.81e-04	1.33e-05	0.0
900	2	2.92e-04	-4.41e-03	-0.08	2.17e-04	8.63e-06	0.0
900	6	3.05e-03	-3.19e-03	-0.06	1.49e-04	2.82e-05	0.0
900	10	3.18e-03	-2.84e-03	-0.06	1.48e-04	2.84e-05	0.0
900	26	9.29e-04	-5.78e-03	-0.06	1.55e-04	1.54e-05	0.0
900	38	4.69e-03	-3.41e-03	-0.06	1.55e-04	3.88e-05	0.0
900	42	4.89e-03	-2.84e-03	-0.06	1.53e-04	3.92e-05	0.0
900	58	1.32e-03	-7.51e-03	-0.06	1.64e-04	1.84e-05	0.0
900	69	2.75e-04	-2.83e-03	-0.06	1.39e-04	1.01e-05	0.0
900	70	2.29e-04	-3.31e-03	-0.06	1.63e-04	6.99e-06	0.0
900	71	2.75e-04	-2.83e-03	-0.06	1.39e-04	1.01e-05	0.0
900	72	2.66e-04	-2.92e-03	-0.06	1.44e-04	9.50e-06	0.0
901	1	2.77e-04	-3.34e-03	-0.07	1.65e-04	8.81e-06	0.0
901	2	2.14e-04	-4.00e-03	-0.07	1.97e-04	4.31e-06	0.0
901	6	2.93e-03	-2.91e-03	-0.05	1.35e-04	2.31e-05	0.0
901	10	3.04e-03	-2.57e-03	-0.05	1.34e-04	2.33e-05	0.0
901	26	8.68e-04	-5.46e-03	-0.05	1.39e-04	1.09e-05	0.0
901	38	4.53e-03	-3.12e-03	-0.05	1.41e-04	3.29e-05	0.0
901	42	4.70e-03	-2.56e-03	-0.05	1.39e-04	3.31e-05	0.0
901	58	1.26e-03	-7.16e-03	-0.05	1.46e-04	1.34e-05	0.0
901	69	2.10e-04	-2.57e-03	-0.05	1.26e-04	6.63e-06	0.0
901	70	1.68e-04	-3.00e-03	-0.05	1.48e-04	3.62e-06	0.0
901	71	2.10e-04	-2.57e-03	-0.05	1.26e-04	6.63e-06	0.0
901	72	2.02e-04	-2.65e-03	-0.05	1.31e-04	6.03e-06	0.0
902	1	2.08e-04	-2.80e-03	-0.06	1.38e-04	5.38e-06	0.0
902	2	1.49e-04	-3.34e-03	-0.06	1.64e-04	1.19e-06	0.0
902	6	2.81e-03	-2.48e-03	-0.05	1.14e-04	1.85e-05	0.0
902	10	2.89e-03	-2.14e-03	-0.05	1.13e-04	1.82e-05	0.0
902	26	8.25e-04	-4.97e-03	-0.05	1.15e-04	7.63e-06	0.0
902	38	4.37e-03	-2.68e-03	-0.05	1.19e-04	2.71e-05	0.0
902	42	4.51e-03	-2.14e-03	-0.05	1.17e-04	2.66e-05	0.0
902	58	1.22e-03	-6.63e-03	-0.05	1.20e-04	9.78e-06	0.0
902	69	1.56e-04	-2.15e-03	-0.05	1.06e-04	3.97e-06	0.0
902	70	1.17e-04	-2.51e-03	-0.05	1.24e-04	1.17e-06	0.0
902	71	1.56e-04	-2.15e-03	-0.05	1.06e-04	3.97e-06	0.0
902	72	1.49e-04	-2.22e-03	-0.05	1.09e-04	3.41e-06	0.0
903	1	1.59e-04	-2.12e-03	-0.05	1.04e-04	3.08e-06	0.0
903	2	1.05e-04	-2.53e-03	-0.05	1.24e-04	0.0	0.0
903	6	2.70e-03	-1.94e-03	-0.04	8.69e-05	1.45e-05	0.0
903	10	2.77e-03	-1.61e-03	-0.04	8.63e-05	1.45e-05	0.0
903	26	8.02e-04	-4.39e-03	-0.04	8.61e-05	4.90e-06	0.0
903	38	4.23e-03	-2.13e-03	-0.04	9.09e-05	2.18e-05	0.0
903	42	4.33e-03	-1.60e-03	-0.04	9.00e-05	2.18e-05	0.0
903	58	1.21e-03	-6.02e-03	-0.04	8.97e-05	6.51e-06	0.0
903	69	1.18e-04	-1.63e-03	-0.04	8.01e-05	2.19e-06	0.0
903	70	8.28e-05	-1.90e-03	-0.04	9.34e-05	0.0	0.0
903	71	1.18e-04	-1.63e-03	-0.04	8.01e-05	2.19e-06	0.0
903	72	1.11e-04	-1.68e-03	-0.04	8.28e-05	1.67e-06	0.0
904	1	1.28e-04	-1.37e-03	-0.05	6.71e-05	1.64e-06	0.0
904	2	7.81e-05	-1.63e-03	-0.05	7.98e-05	-1.99e-06	0.0
904	6	2.63e-03	-1.34e-03	-0.04	5.66e-05	1.18e-05	0.0
904	10	2.67e-03	-1.01e-03	-0.04	5.62e-05	1.18e-05	0.0
904	26	7.96e-04	-3.77e-03	-0.04	5.52e-05	3.67e-06	0.0
904	38	4.12e-03	-1.51e-03	-0.04	5.96e-05	1.81e-05	0.0
904	42	4.18e-03	-9.85e-04	-0.04	5.90e-05	1.81e-05	0.0
904	58	1.21e-03	-5.37e-03	-0.04	5.74e-05	5.21e-06	0.0
904	69	9.44e-05	-1.05e-03	-0.04	5.15e-05	1.07e-06	0.0
904	70	6.14e-05	-1.22e-03	-0.04	6.00e-05	-1.35e-06	0.0
904	71	9.44e-05	-1.05e-03	-0.04	5.15e-05	1.07e-06	0.0
904	72	8.78e-05	-1.08e-03	-0.04	5.32e-05	0.0	0.0
905	1	1.12e-04	-5.71e-04	-0.05	2.79e-05	0.0	0.0

905	2	6.49e-05	-6.80e-04	-0.05	3.32e-05	-2.60e-06	0.0
905	6	2.57e-03	-7.04e-04	-0.04	2.48e-05	1.01e-05	0.0
905	10	2.59e-03	-3.79e-04	-0.04	2.45e-05	1.00e-05	0.0
905	26	8.06e-04	-3.13e-03	-0.04	2.38e-05	3.07e-06	0.0
905	38	4.04e-03	-8.60e-04	-0.04	2.68e-05	1.57e-05	0.0
905	42	4.07e-03	-3.40e-04	-0.04	2.64e-05	1.57e-05	0.0
905	58	1.23e-03	-4.71e-03	-0.04	2.53e-05	4.60e-06	0.0
905	69	8.22e-05	-4.38e-04	-0.04	2.14e-05	0.0	0.0
905	70	5.08e-05	-5.11e-04	-0.04	2.49e-05	-1.84e-06	0.0
905	71	8.22e-05	-4.38e-04	-0.04	2.14e-05	0.0	0.0
905	72	7.60e-05	-4.53e-04	-0.04	2.21e-05	0.0	0.0
906	1	1.11e-04	2.37e-04	-0.05	-1.20e-05	0.0	0.0
906	2	6.41e-05	2.81e-04	-0.05	-1.43e-05	-2.70e-06	0.0
906	13	2.56e-03	4.46e-04	-0.04	-1.19e-05	9.69e-06	0.0
906	17	2.57e-03	1.21e-04	-0.04	-1.17e-05	9.70e-06	0.0
906	21	8.14e-04	2.87e-03	-0.04	-1.07e-05	2.98e-06	0.0
906	45	4.03e-03	6.01e-04	-0.04	-1.35e-05	1.52e-05	0.0
906	49	4.04e-03	8.13e-05	-0.04	-1.32e-05	1.52e-05	0.0
906	53	1.25e-03	4.45e-03	-0.04	-1.15e-05	4.52e-06	0.0
906	69	8.11e-05	1.82e-04	-0.04	-9.21e-06	0.0	0.0
906	70	5.02e-05	2.11e-04	-0.04	-1.07e-05	-1.92e-06	0.0
906	71	8.11e-05	1.82e-04	-0.04	-9.21e-06	0.0	0.0
906	72	7.49e-05	1.88e-04	-0.04	-9.51e-06	0.0	0.0
907	1	1.23e-04	1.04e-03	-0.05	-5.16e-05	1.27e-06	0.0
907	2	7.55e-05	1.24e-03	-0.05	-6.14e-05	-2.29e-06	0.0
907	13	2.61e-03	1.08e-03	-0.04	-4.39e-05	1.10e-05	0.0
907	17	2.64e-03	7.59e-04	-0.04	-4.36e-05	1.10e-05	0.0
907	21	8.00e-04	3.50e-03	-0.04	-4.26e-05	3.31e-06	0.0
907	45	4.10e-03	1.25e-03	-0.04	-4.64e-05	1.71e-05	0.0
907	49	4.14e-03	7.32e-04	-0.04	-4.60e-05	1.71e-05	0.0
907	53	1.22e-03	5.10e-03	-0.04	-4.44e-05	4.82e-06	0.0
907	69	9.09e-05	7.97e-04	-0.04	-3.96e-05	0.0	0.0
907	70	5.92e-05	9.29e-04	-0.04	-4.61e-05	-1.59e-06	0.0
907	71	9.09e-05	7.97e-04	-0.04	-3.96e-05	0.0	0.0
907	72	8.45e-05	8.23e-04	-0.04	-4.09e-05	0.0	0.0
908	1	1.50e-04	1.81e-03	-0.05	-8.98e-05	2.42e-06	0.0
908	2	9.98e-05	2.16e-03	-0.05	-1.07e-04	-1.35e-06	0.0
908	13	2.68e-03	1.70e-03	-0.04	-7.49e-05	1.33e-05	0.0
908	17	2.73e-03	1.37e-03	-0.04	-7.44e-05	1.34e-05	0.0
908	21	8.01e-04	4.14e-03	-0.04	-7.39e-05	4.26e-06	0.0
908	45	4.20e-03	1.89e-03	-0.04	-7.85e-05	2.02e-05	0.0
908	49	4.28e-03	1.36e-03	-0.04	-7.77e-05	2.03e-05	0.0
908	53	1.21e-03	5.75e-03	-0.04	-7.68e-05	5.81e-06	0.0
908	69	1.12e-04	1.39e-03	-0.04	-6.89e-05	1.67e-06	0.0
908	70	7.83e-05	1.62e-03	-0.04	-8.03e-05	0.0	0.0
908	71	1.12e-04	1.39e-03	-0.04	-6.89e-05	1.67e-06	0.0
908	72	1.05e-04	1.44e-03	-0.04	-7.12e-05	1.17e-06	0.0
909	2	1.59e-03	5.44e-03	-0.08	-2.65e-04	8.12e-05	0.0
909	17	3.44e-03	4.47e-03	-0.06	-1.66e-04	5.35e-05	0.0
909	31	5.86e-04	6.35e-03	-0.06	-1.83e-04	5.10e-05	0.0
909	35	5.31e-04	6.17e-03	-0.06	-1.83e-04	5.07e-05	0.0
909	49	4.90e-03	5.14e-03	-0.06	-1.68e-04	5.56e-05	0.0
909	63	3.55e-04	8.13e-03	-0.06	-1.95e-04	5.16e-05	0.0
909	67	2.69e-04	7.86e-03	-0.06	-1.96e-04	5.11e-05	0.0
909	70	1.19e-03	4.06e-03	-0.06	-1.98e-04	6.07e-05	0.0
909	72	1.02e-03	3.47e-03	-0.06	-1.69e-04	5.21e-05	0.0
910	2	2.26e-03	5.78e-03	-0.10	-2.81e-04	1.15e-04	0.0
910	17	3.92e-03	4.70e-03	-0.07	-1.77e-04	7.62e-05	0.0
910	31	1.13e-03	6.63e-03	-0.07	-1.97e-04	7.61e-05	0.0
910	35	1.06e-03	6.46e-03	-0.07	-1.97e-04	7.57e-05	0.0
910	49	5.41e-03	5.39e-03	-0.07	-1.80e-04	7.96e-05	0.0
910	63	9.76e-04	8.47e-03	-0.07	-2.12e-04	7.93e-05	0.0
910	67	8.76e-04	8.19e-03	-0.07	-2.12e-04	7.87e-05	0.0
910	70	1.69e-03	4.31e-03	-0.07	-2.10e-04	8.63e-05	0.0
910	72	1.44e-03	3.67e-03	-0.07	-1.79e-04	7.37e-05	0.0
911	2	-2.32e-03	4.86e-03	-0.11	-2.38e-04	-1.28e-04	0.0
911	15	-4.68e-03	2.99e-03	-0.08	-1.59e-04	-1.16e-04	0.0
911	31	-2.03e-03	6.50e-03	-0.08	-1.73e-04	-9.59e-05	0.0
911	35	-2.16e-03	6.19e-03	-0.08	-1.73e-04	-9.86e-05	0.0
911	47	-6.51e-03	2.95e-03	-0.08	-1.64e-04	-1.33e-04	0.0
911	63	-2.30e-03	8.53e-03	-0.08	-1.86e-04	-1.02e-04	0.0
911	67	-2.51e-03	8.04e-03	-0.08	-1.87e-04	-1.06e-04	0.0
911	70	-1.75e-03	3.64e-03	-0.08	-1.79e-04	-9.66e-05	0.0
911	72	-1.61e-03	3.18e-03	-0.08	-1.56e-04	-8.79e-05	0.0
912	2	4.64e-04	5.75e-03	-0.11	-2.80e-04	2.15e-05	0.0
912	17	3.05e-03	4.32e-03	-0.08	-1.77e-04	2.48e-05	0.0

912	31	6.02e-06	5.99e-03	-0.08	-1.94e-04	1.30e-05	0.0
912	35	-7.67e-05	5.94e-03	-0.08	-1.94e-04	1.19e-05	0.0
912	49	4.68e-03	4.80e-03	-0.08	-1.81e-04	3.15e-05	0.0
912	63	-1.63e-04	7.46e-03	-0.08	-2.08e-04	1.27e-05	0.0
912	67	-2.95e-04	7.38e-03	-0.08	-2.08e-04	1.09e-05	0.0
912	70	3.48e-04	4.29e-03	-0.08	-2.09e-04	1.61e-05	0.0
912	72	3.04e-04	3.67e-03	-0.08	-1.79e-04	1.41e-05	0.0
913	2	-4.77e-04	5.66e-03	-0.11	-2.83e-04	-2.48e-05	0.0
913	20	-3.03e-03	2.92e-03	-0.07	-1.66e-04	-2.48e-05	0.0
913	25	2.78e-04	6.11e-03	-0.08	-2.00e-04	-1.34e-05	0.0
913	27	-1.29e-03	6.14e-03	-0.08	-2.00e-04	-1.93e-05	0.0
913	52	-4.64e-03	2.60e-03	-0.07	-1.63e-04	-3.03e-05	0.0
913	57	6.16e-04	7.67e-03	-0.08	-2.16e-04	-1.22e-05	0.0
913	59	-1.87e-03	7.72e-03	-0.08	-2.16e-04	-2.15e-05	0.0
913	70	-3.57e-04	4.23e-03	-0.08	-2.11e-04	-1.86e-05	0.0
913	72	-3.09e-04	3.61e-03	-0.08	-1.80e-04	-1.61e-05	0.0
914	2	4.66e-04	5.62e-03	-0.11	-2.81e-04	2.22e-05	0.0
914	17	3.06e-03	3.68e-03	-0.08	-1.76e-04	2.25e-05	0.0
914	27	-5.99e-04	6.39e-03	-0.08	-1.99e-04	1.32e-05	0.0
914	49	4.68e-03	3.82e-03	-0.08	-1.78e-04	2.72e-05	0.0
914	59	-1.13e-03	8.14e-03	-0.08	-2.15e-04	1.24e-05	0.0
914	70	3.52e-04	4.19e-03	-0.08	-2.10e-04	1.67e-05	0.0
914	72	3.17e-04	3.59e-03	-0.08	-1.80e-04	1.50e-05	0.0
915	1	1.16e-04	4.22e-03	-0.09	-2.07e-04	1.11e-06	0.0
915	2	6.54e-05	5.18e-03	-0.11	-2.54e-04	-2.74e-06	0.0
915	17	3.02e-03	3.28e-03	-0.07	-1.62e-04	1.50e-05	0.0
915	27	-8.74e-04	6.20e-03	-0.08	-1.78e-04	-1.31e-06	0.0
915	49	4.75e-03	3.31e-03	-0.07	-1.63e-04	2.34e-05	0.0
915	59	-1.44e-03	7.94e-03	-0.08	-1.89e-04	-2.64e-06	0.0
915	69	8.86e-05	3.23e-03	-0.07	-1.59e-04	0.0	0.0
915	70	5.49e-05	3.88e-03	-0.08	-1.90e-04	-1.74e-06	0.0
915	71	8.86e-05	3.23e-03	-0.07	-1.59e-04	0.0	0.0
915	72	8.19e-05	3.36e-03	-0.07	-1.65e-04	0.0	0.0
916	1	5.64e-04	3.95e-03	-0.09	-1.95e-04	2.66e-05	0.0
916	2	5.33e-04	4.71e-03	-0.10	-2.33e-04	2.43e-05	0.0
916	13	3.60e-03	3.39e-03	-0.08	-1.64e-04	5.42e-05	0.0
916	17	3.77e-03	3.04e-03	-0.08	-1.63e-04	5.42e-05	0.0
916	21	1.11e-03	6.09e-03	-0.08	-1.71e-04	2.94e-05	0.0
916	45	5.47e-03	3.61e-03	-0.08	-1.73e-04	7.41e-05	0.0
916	49	5.74e-03	3.05e-03	-0.08	-1.70e-04	7.42e-05	0.0
916	53	1.51e-03	7.89e-03	-0.08	-1.83e-04	3.46e-05	0.0
916	69	4.31e-04	3.03e-03	-0.07	-1.50e-04	2.04e-05	0.0
916	70	4.11e-04	3.54e-03	-0.08	-1.75e-04	1.88e-05	0.0
916	71	4.31e-04	3.03e-03	-0.07	-1.50e-04	2.04e-05	0.0
916	72	4.27e-04	3.13e-03	-0.07	-1.55e-04	2.01e-05	0.0
917	2	-2.84e-03	4.50e-03	-0.10	-2.19e-04	-1.48e-04	0.0
917	15	-4.91e-03	3.62e-03	-0.07	-1.46e-04	-1.25e-04	0.0
917	31	-2.37e-03	6.22e-03	-0.07	-1.59e-04	-1.10e-04	0.0
917	35	-2.49e-03	6.16e-03	-0.07	-1.59e-04	-1.12e-04	0.0
917	47	-6.68e-03	4.08e-03	-0.07	-1.51e-04	-1.40e-04	0.0
917	63	-2.65e-03	8.21e-03	-0.08	-1.71e-04	-1.17e-04	0.0
917	67	-2.84e-03	8.12e-03	-0.08	-1.71e-04	-1.20e-04	0.0
917	70	-2.14e-03	3.38e-03	-0.08	-1.64e-04	-1.12e-04	0.0
917	72	-1.95e-03	2.95e-03	-0.07	-1.43e-04	-1.01e-04	0.0
918	2	-2.49e-03	3.97e-03	-0.09	-1.93e-04	-1.30e-04	0.0
918	15	-4.44e-03	2.45e-03	-0.07	-1.26e-04	-1.03e-04	0.0
918	31	-2.67e-03	5.76e-03	-0.07	-1.39e-04	-9.69e-05	0.0
918	35	-2.76e-03	5.48e-03	-0.07	-1.39e-04	-9.80e-05	0.0
918	47	-6.07e-03	2.41e-03	-0.07	-1.29e-04	-1.12e-04	0.0
918	63	-3.25e-03	7.68e-03	-0.07	-1.49e-04	-1.03e-04	0.0
918	67	-3.40e-03	7.24e-03	-0.07	-1.49e-04	-1.04e-04	0.0
918	70	-1.88e-03	2.97e-03	-0.07	-1.45e-04	-9.83e-05	0.0
918	72	-1.72e-03	2.59e-03	-0.07	-1.27e-04	-8.93e-05	0.0
919	2	-1.76e-03	3.48e-03	-0.09	-1.72e-04	-9.22e-05	0.0
919	15	-3.84e-03	2.14e-03	-0.06	-1.11e-04	-7.24e-05	0.0
919	31	-1.58e-03	5.33e-03	-0.06	-1.21e-04	-6.98e-05	0.0
919	35	-1.66e-03	5.06e-03	-0.06	-1.21e-04	-7.03e-05	0.0
919	47	-5.40e-03	2.10e-03	-0.06	-1.12e-04	-7.79e-05	0.0
919	63	-1.80e-03	7.19e-03	-0.07	-1.29e-04	-7.38e-05	0.0
919	67	-1.93e-03	6.76e-03	-0.07	-1.29e-04	-7.47e-05	0.0
919	70	-1.33e-03	2.60e-03	-0.07	-1.29e-04	-6.97e-05	0.0
919	72	-1.23e-03	2.27e-03	-0.06	-1.12e-04	-6.41e-05	0.0
920	2	-8.34e-04	3.19e-03	-0.08	-1.59e-04	-4.41e-05	0.0
920	20	-3.16e-03	6.99e-04	-0.06	-9.65e-05	-3.52e-05	0.0
920	31	-9.40e-04	5.07e-03	-0.06	-1.11e-04	-3.66e-05	0.0
920	35	-1.01e-03	4.81e-03	-0.06	-1.11e-04	-3.67e-05	0.0

920	52	-4.66e-03	-6.47e-05	-0.06	-9.48e-05	-3.70e-05	0.0
920	63	-1.13e-03	6.88e-03	-0.06	-1.18e-04	-3.91e-05	0.0
920	67	-1.25e-03	6.47e-03	-0.06	-1.18e-04	-3.94e-05	0.0
920	70	-6.36e-04	2.39e-03	-0.06	-1.19e-04	-3.36e-05	0.0
920	72	-6.19e-04	2.07e-03	-0.06	-1.03e-04	-3.25e-05	0.0
921	2	1.69e-04	3.13e-03	-0.08	-1.56e-04	7.44e-06	0.0
921	17	2.51e-03	3.20e-03	-0.06	-9.97e-05	0.0	0.0
921	31	-2.52e-04	4.96e-03	-0.06	-1.09e-04	-2.86e-06	0.0
921	35	-3.18e-04	4.72e-03	-0.06	-1.09e-04	-2.79e-06	0.0
921	49	3.97e-03	3.94e-03	-0.06	-1.01e-04	0.0	0.0
921	63	-4.14e-04	6.75e-03	-0.06	-1.15e-04	-4.83e-06	0.0
921	67	-5.20e-04	6.36e-03	-0.06	-1.15e-04	-4.71e-06	0.0
921	70	1.16e-04	2.34e-03	-0.06	-1.17e-04	5.08e-06	0.0
921	72	4.14e-05	2.02e-03	-0.06	-1.01e-04	1.49e-06	0.0
922	2	1.15e-03	3.28e-03	-0.08	-1.63e-04	5.81e-05	0.0
922	17	3.10e-03	3.25e-03	-0.06	-1.03e-04	3.28e-05	0.0
922	31	4.22e-04	5.02e-03	-0.06	-1.13e-04	3.75e-05	0.0
922	35	3.60e-04	4.79e-03	-0.06	-1.13e-04	3.77e-05	0.0
922	49	4.55e-03	3.97e-03	-0.06	-1.05e-04	3.29e-05	0.0
922	63	2.89e-04	6.79e-03	-0.06	-1.21e-04	4.03e-05	0.0
922	67	1.90e-04	6.43e-03	-0.06	-1.21e-04	4.06e-05	0.0
922	70	8.56e-04	2.45e-03	-0.06	-1.22e-04	4.31e-05	0.0
922	72	6.90e-04	2.11e-03	-0.06	-1.05e-04	3.47e-05	0.0
923	2	2.03e-03	3.64e-03	-0.09	-1.81e-04	1.03e-04	0.0
923	17	3.65e-03	3.43e-03	-0.06	-1.14e-04	6.13e-05	0.0
923	31	1.02e-03	5.23e-03	-0.06	-1.26e-04	6.85e-05	0.0
923	35	9.65e-04	5.02e-03	-0.06	-1.26e-04	6.88e-05	0.0
923	49	5.10e-03	4.14e-03	-0.06	-1.15e-04	6.14e-05	0.0
923	63	9.19e-04	7.00e-03	-0.07	-1.34e-04	7.27e-05	0.0
923	67	8.23e-04	6.66e-03	-0.07	-1.34e-04	7.32e-05	0.0
923	70	1.52e-03	2.72e-03	-0.07	-1.35e-04	7.70e-05	0.0
923	72	1.27e-03	2.34e-03	-0.06	-1.16e-04	6.44e-05	0.0
924	2	2.70e-03	4.22e-03	-0.10	-2.09e-04	1.38e-04	0.0
924	17	4.09e-03	3.76e-03	-0.07	-1.31e-04	8.41e-05	0.0
924	31	1.48e-03	5.61e-03	-0.07	-1.45e-04	9.22e-05	0.0
924	35	1.42e-03	5.41e-03	-0.07	-1.46e-04	9.25e-05	0.0
924	49	5.55e-03	4.45e-03	-0.07	-1.32e-04	8.48e-05	0.0
924	63	1.40e-03	7.39e-03	-0.07	-1.56e-04	9.77e-05	0.0
924	67	1.30e-03	7.08e-03	-0.07	-1.56e-04	9.81e-05	0.0
924	70	2.01e-03	3.15e-03	-0.07	-1.56e-04	1.03e-04	0.0
924	72	1.70e-03	2.70e-03	-0.07	-1.33e-04	8.69e-05	0.0
925	2	2.97e-03	4.98e-03	-0.10	-2.44e-04	1.52e-04	0.0
925	17	4.32e-03	4.21e-03	-0.07	-1.53e-04	9.62e-05	0.0
925	31	1.69e-03	6.12e-03	-0.07	-1.72e-04	1.03e-04	0.0
925	35	1.63e-03	5.94e-03	-0.07	-1.72e-04	1.03e-04	0.0
925	49	5.80e-03	4.90e-03	-0.07	-1.55e-04	9.83e-05	0.0
925	63	1.62e-03	7.94e-03	-0.08	-1.85e-04	1.09e-04	0.0
925	67	1.52e-03	7.65e-03	-0.08	-1.85e-04	1.09e-04	0.0
925	70	2.22e-03	3.72e-03	-0.08	-1.82e-04	1.14e-04	0.0
925	72	1.89e-03	3.18e-03	-0.07	-1.56e-04	9.68e-05	0.0
926	2	6.77e-04	6.14e-03	-0.12	-3.01e-04	4.04e-05	0.0
926	17	3.17e-03	4.95e-03	-0.08	-1.92e-04	3.76e-05	0.0
926	29	1.55e-03	6.77e-03	-0.08	-2.16e-04	3.10e-05	0.0
926	33	1.64e-03	6.94e-03	-0.08	-2.16e-04	3.22e-05	0.0
926	49	4.81e-03	5.68e-03	-0.08	-1.97e-04	4.53e-05	0.0
926	61	2.23e-03	8.57e-03	-0.09	-2.36e-04	3.49e-05	0.0
926	65	2.37e-03	8.84e-03	-0.09	-2.35e-04	3.68e-05	0.0
926	70	5.05e-04	4.58e-03	-0.09	-2.25e-04	3.01e-05	0.0
926	72	4.27e-04	3.89e-03	-0.08	-1.91e-04	2.56e-05	0.0
927	1	4.60e-04	-4.15e-03	-0.10	2.00e-04	2.34e-05	0.0
927	2	4.05e-04	-4.96e-03	-0.10	2.39e-04	2.05e-05	0.0
927	6	3.53e-03	-4.59e-03	-0.08	1.72e-04	5.47e-05	0.0
927	10	3.71e-03	-4.24e-03	-0.08	1.70e-04	5.48e-05	0.0
927	26	1.03e-03	-6.32e-03	-0.08	1.76e-04	2.76e-05	0.0
927	38	5.41e-03	-5.41e-03	-0.09	1.82e-04	7.64e-05	0.0
927	42	5.69e-03	-4.85e-03	-0.09	1.79e-04	7.65e-05	0.0
927	58	1.43e-03	-8.16e-03	-0.08	1.90e-04	3.33e-05	0.0
927	69	3.52e-04	-3.19e-03	-0.07	1.54e-04	1.79e-05	0.0
927	70	3.15e-04	-3.72e-03	-0.08	1.79e-04	1.59e-05	0.0
927	71	3.52e-04	-3.19e-03	-0.07	1.54e-04	1.79e-05	0.0
927	72	3.44e-04	-3.29e-03	-0.07	1.59e-04	1.75e-05	0.0
928	2	-6.62e-04	5.93e-03	-0.12	-2.93e-04	-4.50e-05	0.0
928	15	-3.10e-03	3.89e-03	-0.08	-1.83e-04	-3.86e-05	0.0
928	31	-7.92e-04	6.76e-03	-0.08	-2.11e-04	-3.29e-05	0.0
928	33	6.82e-04	6.75e-03	-0.08	-2.11e-04	-2.76e-05	0.0
928	47	-4.70e-03	4.06e-03	-0.08	-1.85e-04	-4.53e-05	0.0

928	63	-1.03e-03	8.63e-03	-0.09	-2.30e-04	-3.63e-05	0.0
928	65	1.32e-03	8.61e-03	-0.09	-2.31e-04	-2.78e-05	0.0
928	70	-4.94e-04	4.42e-03	-0.09	-2.19e-04	-3.36e-05	0.0
928	72	-4.17e-04	3.76e-03	-0.08	-1.86e-04	-2.85e-05	0.0
929	2	-2.41e-03	5.73e-03	-0.11	-2.79e-04	-1.28e-04	0.0
929	15	-3.97e-03	3.75e-03	-0.07	-1.72e-04	-8.15e-05	0.0
929	33	-9.77e-04	6.55e-03	-0.08	-1.99e-04	-8.74e-05	0.0
929	47	-5.44e-03	3.90e-03	-0.07	-1.73e-04	-8.37e-05	0.0
929	65	-6.85e-04	8.36e-03	-0.08	-2.16e-04	-9.31e-05	0.0
929	70	-1.80e-03	4.28e-03	-0.08	-2.09e-04	-9.53e-05	0.0
929	72	-1.54e-03	3.64e-03	-0.08	-1.78e-04	-8.13e-05	0.0
930	2	-2.68e-03	4.93e-03	-0.10	-2.42e-04	-1.40e-04	0.0
930	15	-4.04e-03	3.26e-03	-0.07	-1.48e-04	-8.49e-05	0.0
930	33	-1.18e-03	5.88e-03	-0.07	-1.70e-04	-9.67e-05	0.0
930	47	-5.46e-03	3.41e-03	-0.07	-1.49e-04	-8.45e-05	0.0
930	65	-9.03e-04	7.57e-03	-0.08	-1.83e-04	-1.03e-04	0.0
930	70	-2.01e-03	3.68e-03	-0.08	-1.81e-04	-1.05e-04	0.0
930	72	-1.71e-03	3.14e-03	-0.07	-1.54e-04	-8.95e-05	0.0
931	2	-2.34e-03	4.24e-03	-0.10	-2.10e-04	-1.22e-04	0.0
931	15	-3.77e-03	2.86e-03	-0.07	-1.29e-04	-7.06e-05	0.0
931	33	-5.07e-04	5.31e-03	-0.07	-1.46e-04	-8.42e-05	0.0
931	47	-5.15e-03	3.03e-03	-0.07	-1.29e-04	-6.85e-05	0.0
931	65	3.41e-05	6.92e-03	-0.07	-1.56e-04	-9.01e-05	0.0
931	70	-1.75e-03	3.16e-03	-0.07	-1.56e-04	-9.10e-05	0.0
931	72	-1.49e-03	2.70e-03	-0.07	-1.34e-04	-7.75e-05	0.0
932	2	-1.65e-03	3.74e-03	-0.09	-1.86e-04	-8.61e-05	0.0
932	15	-3.30e-03	2.60e-03	-0.06	-1.15e-04	-4.70e-05	0.0
932	33	-6.21e-05	4.90e-03	-0.07	-1.28e-04	-6.04e-05	0.0
932	47	-4.66e-03	2.78e-03	-0.06	-1.16e-04	-4.39e-05	0.0
932	65	4.92e-04	6.44e-03	-0.07	-1.36e-04	-6.53e-05	0.0
932	70	-1.23e-03	2.79e-03	-0.07	-1.39e-04	-6.43e-05	0.0
932	72	-1.05e-03	2.39e-03	-0.06	-1.19e-04	-5.46e-05	0.0
933	2	-7.87e-04	3.46e-03	-0.09	-1.73e-04	-4.17e-05	0.0
933	20	-2.76e-03	1.20e-03	-0.06	-1.02e-04	-1.69e-05	0.0
933	29	4.62e-04	4.53e-03	-0.06	-1.18e-04	-3.03e-05	0.0
933	33	5.04e-04	4.64e-03	-0.06	-1.18e-04	-3.09e-05	0.0
933	52	-4.11e-03	6.53e-04	-0.06	-9.95e-05	-1.22e-05	0.0
933	61	1.01e-03	5.96e-03	-0.06	-1.25e-04	-3.34e-05	0.0
933	65	1.08e-03	6.13e-03	-0.06	-1.25e-04	-3.45e-05	0.0
933	70	-5.87e-04	2.58e-03	-0.07	-1.29e-04	-3.11e-05	0.0
933	72	-4.93e-04	2.21e-03	-0.06	-1.10e-04	-2.61e-05	0.0
934	2	1.34e-04	3.40e-03	-0.09	-1.70e-04	5.60e-06	0.0
934	17	2.40e-03	2.96e-03	-0.06	-1.07e-04	-1.73e-06	0.0
934	31	-1.64e-04	4.56e-03	-0.06	-1.16e-04	7.84e-06	0.0
934	35	-2.05e-04	4.46e-03	-0.06	-1.16e-04	8.48e-06	0.0
934	49	3.76e-03	3.48e-03	-0.06	-1.08e-04	-5.29e-06	0.0
934	63	-3.19e-04	6.01e-03	-0.06	-1.23e-04	9.93e-06	0.0
934	67	-3.84e-04	5.86e-03	-0.06	-1.23e-04	1.10e-05	0.0
934	70	1.02e-04	2.54e-03	-0.06	-1.27e-04	4.30e-06	0.0
934	72	9.95e-05	2.18e-03	-0.06	-1.09e-04	4.29e-06	0.0
935	2	1.01e-03	3.57e-03	-0.09	-1.77e-04	5.09e-05	0.0
935	17	2.97e-03	3.03e-03	-0.06	-1.10e-04	2.70e-05	0.0
935	31	4.19e-04	4.63e-03	-0.06	-1.21e-04	3.61e-05	0.0
935	35	3.77e-04	4.54e-03	-0.06	-1.21e-04	3.66e-05	0.0
935	49	4.35e-03	3.52e-03	-0.06	-1.11e-04	2.40e-05	0.0
935	63	2.87e-04	6.07e-03	-0.06	-1.28e-04	3.83e-05	0.0
935	67	2.20e-04	5.93e-03	-0.06	-1.29e-04	3.93e-05	0.0
935	70	7.61e-04	2.66e-03	-0.07	-1.32e-04	3.82e-05	0.0
935	72	6.66e-04	2.28e-03	-0.06	-1.14e-04	3.34e-05	0.0
936	2	1.75e-03	3.95e-03	-0.09	-1.95e-04	8.87e-05	0.0
936	17	3.47e-03	3.04e-03	-0.06	-1.21e-04	5.24e-05	0.0
936	31	9.04e-04	4.85e-03	-0.07	-1.34e-04	6.09e-05	0.0
936	35	8.60e-04	4.84e-03	-0.07	-1.34e-04	6.13e-05	0.0
936	49	4.87e-03	3.41e-03	-0.06	-1.21e-04	5.05e-05	0.0
936	63	7.92e-04	6.29e-03	-0.07	-1.42e-04	6.41e-05	0.0
936	67	7.22e-04	6.26e-03	-0.07	-1.43e-04	6.48e-05	0.0
936	70	1.31e-03	2.95e-03	-0.07	-1.46e-04	6.65e-05	0.0
936	72	1.14e-03	2.53e-03	-0.06	-1.25e-04	5.77e-05	0.0
937	2	2.19e-03	4.52e-03	-0.10	-2.22e-04	1.12e-04	0.0
937	17	3.81e-03	3.41e-03	-0.07	-1.37e-04	6.97e-05	0.0
937	31	1.20e-03	5.22e-03	-0.07	-1.53e-04	7.62e-05	0.0
937	35	1.15e-03	5.20e-03	-0.07	-1.54e-04	7.63e-05	0.0
937	49	5.25e-03	3.79e-03	-0.07	-1.38e-04	6.99e-05	0.0
937	63	1.10e-03	6.67e-03	-0.07	-1.63e-04	8.00e-05	0.0
937	67	1.02e-03	6.64e-03	-0.07	-1.64e-04	8.03e-05	0.0
937	70	1.64e-03	3.37e-03	-0.07	-1.66e-04	8.37e-05	0.0

937	72	1.42e-03	2.89e-03	-0.07	-1.42e-04	7.24e-05	0.0
938	2	2.09e-03	5.20e-03	-0.10	-2.53e-04	1.07e-04	0.0
938	17	3.85e-03	3.85e-03	-0.07	-1.58e-04	7.19e-05	0.0
938	31	1.13e-03	5.69e-03	-0.07	-1.77e-04	7.25e-05	0.0
938	35	1.07e-03	5.68e-03	-0.07	-1.77e-04	7.22e-05	0.0
938	49	5.36e-03	4.25e-03	-0.07	-1.59e-04	7.49e-05	0.0
938	63	1.03e-03	7.18e-03	-0.08	-1.89e-04	7.60e-05	0.0
938	67	9.35e-04	7.15e-03	-0.08	-1.90e-04	7.55e-05	0.0
938	70	1.57e-03	3.88e-03	-0.08	-1.89e-04	8.04e-05	0.0
938	72	1.36e-03	3.32e-03	-0.07	-1.62e-04	6.95e-05	0.0
939	2	8.63e-04	5.54e-03	-0.11	-2.70e-04	4.68e-05	0.0
939	17	3.29e-03	4.21e-03	-0.07	-1.71e-04	4.15e-05	0.0
939	31	2.85e-04	5.88e-03	-0.08	-1.89e-04	2.99e-05	0.0
939	35	2.04e-04	5.83e-03	-0.08	-1.90e-04	2.87e-05	0.0
939	49	4.92e-03	4.70e-03	-0.07	-1.74e-04	4.89e-05	0.0
939	63	1.38e-04	7.36e-03	-0.08	-2.04e-04	3.04e-05	0.0
939	67	8.81e-06	7.27e-03	-0.08	-2.04e-04	2.86e-05	0.0
939	70	6.46e-04	4.14e-03	-0.08	-2.02e-04	3.50e-05	0.0
939	72	5.56e-04	3.53e-03	-0.08	-1.73e-04	3.02e-05	0.0
940	2	-1.53e-04	5.42e-03	-0.11	-2.67e-04	-1.61e-05	0.0
940	20	-2.80e-03	2.62e-03	-0.07	-1.57e-04	-1.98e-05	0.0
940	31	-4.17e-04	5.77e-03	-0.08	-1.87e-04	-1.44e-05	0.0
940	35	-4.97e-04	5.76e-03	-0.08	-1.87e-04	-1.55e-05	0.0
940	52	-4.40e-03	2.22e-03	-0.07	-1.53e-04	-2.59e-05	0.0
940	63	-6.14e-04	7.23e-03	-0.08	-2.01e-04	-1.73e-05	0.0
940	67	-7.41e-04	7.20e-03	-0.08	-2.01e-04	-1.91e-05	0.0
940	70	-1.13e-04	4.05e-03	-0.08	-2.00e-04	-1.20e-05	0.0
940	72	-8.90e-05	3.45e-03	-0.08	-1.71e-04	-1.00e-05	0.0
941	2	-1.26e-03	5.28e-03	-0.11	-2.58e-04	-6.83e-05	0.0
941	20	-3.28e-03	2.45e-03	-0.07	-1.50e-04	-4.34e-05	0.0
941	33	2.58e-04	5.61e-03	-0.08	-1.79e-04	-4.79e-05	0.0
941	52	-4.75e-03	1.99e-03	-0.07	-1.46e-04	-4.41e-05	0.0
941	65	8.69e-04	7.01e-03	-0.08	-1.92e-04	-5.13e-05	0.0
941	70	-9.41e-04	3.94e-03	-0.08	-1.92e-04	-5.11e-05	0.0
941	72	-8.10e-04	3.38e-03	-0.07	-1.65e-04	-4.40e-05	0.0
942	2	-1.24e-03	4.76e-03	-0.10	-2.34e-04	-6.65e-05	0.0
942	20	-3.19e-03	2.18e-03	-0.07	-1.37e-04	-3.85e-05	0.0
942	25	-3.64e-04	5.22e-03	-0.07	-1.60e-04	-4.49e-05	0.0
942	33	2.37e-04	5.16e-03	-0.07	-1.60e-04	-4.81e-05	0.0
942	52	-4.62e-03	1.74e-03	-0.07	-1.33e-04	-3.69e-05	0.0
942	57	-1.23e-04	6.58e-03	-0.07	-1.70e-04	-4.70e-05	0.0
942	65	8.33e-04	6.49e-03	-0.07	-1.70e-04	-5.22e-05	0.0
942	70	-9.32e-04	3.56e-03	-0.08	-1.75e-04	-4.98e-05	0.0
942	72	-8.05e-04	3.05e-03	-0.07	-1.50e-04	-4.30e-05	0.0
943	2	-7.60e-04	4.38e-03	-0.10	-2.16e-04	-4.10e-05	0.0
943	20	-2.85e-03	2.00e-03	-0.07	-1.28e-04	-2.10e-05	0.0
943	25	-3.80e-05	4.98e-03	-0.07	-1.48e-04	-2.88e-05	0.0
943	52	-4.26e-03	1.59e-03	-0.07	-1.25e-04	-1.83e-05	0.0
943	57	2.20e-04	6.34e-03	-0.07	-1.56e-04	-3.07e-05	0.0
943	70	-5.70e-04	3.27e-03	-0.07	-1.61e-04	-3.07e-05	0.0
943	72	-4.94e-04	2.81e-03	-0.07	-1.39e-04	-2.66e-05	0.0
944	2	-6.24e-05	4.22e-03	-0.10	-2.09e-04	-4.60e-06	0.0
944	20	-2.41e-03	1.94e-03	-0.07	-1.24e-04	2.02e-06	0.0
944	21	3.92e-04	4.88e-03	-0.07	-1.42e-04	-6.50e-06	0.0
944	25	4.35e-04	4.90e-03	-0.07	-1.42e-04	-6.91e-06	0.0
944	52	-3.81e-03	1.56e-03	-0.07	-1.22e-04	5.06e-06	0.0
944	53	6.50e-04	6.24e-03	-0.07	-1.51e-04	-8.47e-06	0.0
944	57	7.18e-04	6.26e-03	-0.07	-1.51e-04	-9.13e-06	0.0
944	70	-4.75e-05	3.15e-03	-0.07	-1.56e-04	-3.49e-06	0.0
944	72	-4.51e-05	2.70e-03	-0.07	-1.34e-04	-3.22e-06	0.0
945	2	6.72e-04	4.30e-03	-0.10	-2.12e-04	3.36e-05	0.0
945	17	2.79e-03	3.26e-03	-0.07	-1.33e-04	1.81e-05	0.0
945	23	-3.79e-04	4.99e-03	-0.07	-1.45e-04	2.54e-05	0.0
945	27	-4.22e-04	4.98e-03	-0.07	-1.45e-04	2.58e-05	0.0
945	49	4.20e-03	3.63e-03	-0.07	-1.35e-04	1.67e-05	0.0
945	55	-8.44e-04	6.39e-03	-0.07	-1.54e-04	2.83e-05	0.0
945	59	-9.13e-04	6.37e-03	-0.07	-1.54e-04	2.90e-05	0.0
945	70	5.02e-04	3.21e-03	-0.07	-1.58e-04	2.51e-05	0.0
945	72	4.28e-04	2.75e-03	-0.07	-1.36e-04	2.14e-05	0.0
946	2	1.28e-03	4.60e-03	-0.10	-2.26e-04	6.51e-05	0.0
946	17	3.20e-03	3.39e-03	-0.07	-1.41e-04	3.90e-05	0.0
946	27	-1.15e-05	5.26e-03	-0.07	-1.56e-04	4.67e-05	0.0
946	49	4.63e-03	3.73e-03	-0.07	-1.43e-04	3.84e-05	0.0
946	59	-4.81e-04	6.70e-03	-0.07	-1.67e-04	5.06e-05	0.0
946	70	9.55e-04	3.43e-03	-0.08	-1.69e-04	4.87e-05	0.0
946	72	8.18e-04	2.94e-03	-0.07	-1.45e-04	4.17e-05	0.0

947	2	1.54e-03	5.06e-03	-0.11	-2.47e-04	7.88e-05	0.0
947	17	3.43e-03	3.66e-03	-0.07	-1.54e-04	5.03e-05	0.0
947	27	1.70e-04	5.65e-03	-0.08	-1.73e-04	5.55e-05	0.0
947	49	4.89e-03	4.00e-03	-0.07	-1.56e-04	5.14e-05	0.0
947	59	-2.87e-04	7.16e-03	-0.08	-1.86e-04	5.97e-05	0.0
947	70	1.15e-03	3.77e-03	-0.08	-1.84e-04	5.90e-05	0.0
947	72	9.87e-04	3.23e-03	-0.07	-1.58e-04	5.05e-05	0.0
948	2	1.00e-03	5.14e-03	-0.11	-2.57e-04	5.35e-05	0.0
948	17	3.24e-03	3.78e-03	-0.08	-1.63e-04	4.06e-05	0.0
948	21	1.21e-03	5.79e-03	-0.08	-1.83e-04	3.93e-05	0.0
948	27	-2.26e-04	5.76e-03	-0.08	-1.83e-04	3.58e-05	0.0
948	49	4.79e-03	4.15e-03	-0.08	-1.67e-04	4.53e-05	0.0
948	53	1.56e-03	7.36e-03	-0.08	-1.98e-04	4.32e-05	0.0
948	59	-7.17e-04	7.32e-03	-0.08	-1.98e-04	3.77e-05	0.0
948	70	7.47e-04	3.84e-03	-0.08	-1.92e-04	4.00e-05	0.0
948	72	6.35e-04	3.27e-03	-0.08	-1.64e-04	3.41e-05	0.0
949	1	4.53e-04	3.70e-03	-0.09	-1.82e-04	1.83e-05	0.0
949	2	3.82e-04	4.44e-03	-0.10	-2.19e-04	1.34e-05	0.0
949	17	3.35e-03	2.86e-03	-0.07	-1.48e-04	3.49e-05	0.0
949	21	9.95e-04	5.83e-03	-0.07	-1.57e-04	2.14e-05	0.0
949	25	1.12e-03	5.51e-03	-0.07	-1.57e-04	2.29e-05	0.0
949	49	5.12e-03	2.87e-03	-0.07	-1.53e-04	4.71e-05	0.0
949	53	1.38e-03	7.59e-03	-0.08	-1.67e-04	2.56e-05	0.0
949	57	1.57e-03	7.07e-03	-0.08	-1.68e-04	2.79e-05	0.0
949	69	3.46e-04	2.84e-03	-0.07	-1.40e-04	1.40e-05	0.0
949	70	2.99e-04	3.33e-03	-0.08	-1.64e-04	1.07e-05	0.0
949	71	3.46e-04	2.84e-03	-0.07	-1.40e-04	1.40e-05	0.0
949	72	3.37e-04	2.94e-03	-0.07	-1.45e-04	1.33e-05	0.0
950	2	-1.41e-03	5.30e-03	-0.11	-2.63e-04	-7.79e-05	0.0
950	20	-3.54e-03	2.73e-03	-0.07	-1.54e-04	-5.58e-05	0.0
950	25	-3.90e-04	5.91e-03	-0.08	-1.88e-04	-5.03e-05	0.0
950	27	-1.92e-03	5.96e-03	-0.08	-1.87e-04	-5.57e-05	0.0
950	52	-5.12e-03	2.43e-03	-0.07	-1.50e-04	-6.03e-05	0.0
950	57	-1.10e-04	7.49e-03	-0.08	-2.03e-04	-5.17e-05	0.0
950	59	-2.55e-03	7.58e-03	-0.08	-2.03e-04	-6.02e-05	0.0
950	70	-1.05e-03	3.96e-03	-0.08	-1.97e-04	-5.83e-05	0.0
950	72	-9.02e-04	3.37e-03	-0.08	-1.68e-04	-5.01e-05	0.0
951	2	-2.32e-03	5.05e-03	-0.10	-2.46e-04	-1.23e-04	0.0
951	19	-3.93e-03	3.60e-03	-0.07	-1.52e-04	-7.96e-05	0.0
951	21	-1.10e-03	5.78e-03	-0.07	-1.73e-04	-8.43e-05	0.0
951	25	-1.04e-03	5.77e-03	-0.07	-1.73e-04	-8.41e-05	0.0
951	51	-5.40e-03	3.91e-03	-0.07	-1.54e-04	-8.15e-05	0.0
951	53	-9.06e-04	7.37e-03	-0.08	-1.87e-04	-8.90e-05	0.0
951	57	-8.13e-04	7.35e-03	-0.08	-1.87e-04	-8.86e-05	0.0
951	70	-1.73e-03	3.77e-03	-0.08	-1.83e-04	-9.24e-05	0.0
951	72	-1.49e-03	3.22e-03	-0.07	-1.57e-04	-7.95e-05	0.0
952	2	-2.26e-03	4.37e-03	-0.10	-2.14e-04	-1.20e-04	0.0
952	19	-3.82e-03	3.16e-03	-0.07	-1.32e-04	-7.37e-05	0.0
952	21	-1.05e-03	5.29e-03	-0.07	-1.49e-04	-8.25e-05	0.0
952	25	-1.00e-03	5.27e-03	-0.07	-1.49e-04	-8.27e-05	0.0
952	51	-5.25e-03	3.44e-03	-0.07	-1.33e-04	-7.33e-05	0.0
952	53	-8.49e-04	6.83e-03	-0.07	-1.60e-04	-8.73e-05	0.0
952	57	-7.68e-04	6.80e-03	-0.07	-1.60e-04	-8.76e-05	0.0
952	70	-1.69e-03	3.26e-03	-0.07	-1.60e-04	-9.00e-05	0.0
952	72	-1.46e-03	2.79e-03	-0.07	-1.37e-04	-7.75e-05	0.0
953	2	-1.74e-03	3.81e-03	-0.09	-1.88e-04	-9.37e-05	0.0
953	20	-3.46e-03	1.75e-03	-0.06	-1.10e-04	-5.16e-05	0.0
953	21	-7.00e-04	4.90e-03	-0.06	-1.30e-04	-6.46e-05	0.0
953	25	-6.53e-04	4.89e-03	-0.06	-1.30e-04	-6.51e-05	0.0
953	52	-4.86e-03	1.41e-03	-0.06	-1.07e-04	-4.78e-05	0.0
953	53	-4.75e-04	6.42e-03	-0.07	-1.39e-04	-6.86e-05	0.0
953	57	-4.00e-04	6.39e-03	-0.07	-1.39e-04	-6.92e-05	0.0
953	70	-1.31e-03	2.84e-03	-0.07	-1.40e-04	-7.02e-05	0.0
953	72	-1.13e-03	2.44e-03	-0.06	-1.20e-04	-6.04e-05	0.0
954	2	-9.85e-04	3.45e-03	-0.09	-1.71e-04	-5.46e-05	0.0
954	20	-2.97e-03	1.72e-03	-0.06	-1.01e-04	-2.65e-05	0.0
954	21	-1.86e-04	4.66e-03	-0.06	-1.18e-04	-3.84e-05	0.0
954	25	-1.40e-04	4.60e-03	-0.06	-1.18e-04	-3.90e-05	0.0
954	52	-4.35e-03	1.48e-03	-0.06	-9.91e-05	-2.22e-05	0.0
954	53	6.51e-05	6.16e-03	-0.06	-1.25e-04	-4.11e-05	0.0
954	57	1.38e-04	6.06e-03	-0.06	-1.25e-04	-4.20e-05	0.0
954	70	-7.38e-04	2.57e-03	-0.06	-1.28e-04	-4.09e-05	0.0
954	72	-6.36e-04	2.21e-03	-0.06	-1.10e-04	-3.52e-05	0.0
955	2	-1.10e-04	3.30e-03	-0.08	-1.64e-04	-9.54e-06	0.0
955	20	-2.42e-03	1.67e-03	-0.06	-9.82e-05	1.66e-06	0.0
955	25	4.51e-04	4.50e-03	-0.06	-1.12e-04	-9.06e-06	0.0

955	27	-8.88e-04	4.58e-03	-0.06	-1.12e-04	-4.99e-06	0.0
955	52	-3.80e-03	1.46e-03	-0.06	-9.67e-05	6.13e-06	0.0
955	57	7.59e-04	5.96e-03	-0.06	-1.19e-04	-1.09e-05	0.0
955	59	-1.37e-03	6.08e-03	-0.06	-1.19e-04	-4.44e-06	0.0
955	70	-8.23e-05	2.46e-03	-0.06	-1.22e-04	-7.14e-06	0.0
955	72	-7.10e-05	2.11e-03	-0.06	-1.05e-04	-6.15e-06	0.0
956	2	7.85e-04	3.37e-03	-0.08	-1.67e-04	3.65e-05	0.0
956	17	2.84e-03	2.39e-03	-0.06	-1.04e-04	1.66e-05	0.0
956	27	-2.86e-04	4.65e-03	-0.06	-1.15e-04	2.69e-05	0.0
956	49	4.23e-03	2.57e-03	-0.06	-1.05e-04	1.31e-05	0.0
956	59	-7.40e-04	6.18e-03	-0.06	-1.22e-04	2.94e-05	0.0
956	70	5.88e-04	2.51e-03	-0.06	-1.25e-04	2.74e-05	0.0
956	72	5.07e-04	2.16e-03	-0.06	-1.07e-04	2.36e-05	0.0
957	2	1.61e-03	3.64e-03	-0.09	-1.80e-04	7.89e-05	0.0
957	17	3.37e-03	2.52e-03	-0.06	-1.11e-04	4.38e-05	0.0
957	27	2.53e-04	4.88e-03	-0.06	-1.25e-04	5.53e-05	0.0
957	49	4.77e-03	2.69e-03	-0.06	-1.12e-04	4.08e-05	0.0
957	59	-1.81e-04	6.44e-03	-0.07	-1.33e-04	5.91e-05	0.0
957	70	1.20e-03	2.72e-03	-0.07	-1.34e-04	5.91e-05	0.0
957	72	1.04e-03	2.33e-03	-0.06	-1.15e-04	5.09e-05	0.0
958	2	2.24e-03	4.12e-03	-0.09	-2.02e-04	1.12e-04	0.0
958	17	3.80e-03	2.79e-03	-0.06	-1.25e-04	6.60e-05	0.0
958	27	6.40e-04	5.26e-03	-0.07	-1.41e-04	7.73e-05	0.0
958	49	5.23e-03	2.95e-03	-0.06	-1.25e-04	6.40e-05	0.0
958	59	2.04e-04	6.87e-03	-0.07	-1.51e-04	8.21e-05	0.0
958	70	1.68e-03	3.08e-03	-0.07	-1.51e-04	8.37e-05	0.0
958	72	1.45e-03	2.64e-03	-0.07	-1.30e-04	7.21e-05	0.0
959	2	2.51e-03	4.75e-03	-0.10	-2.32e-04	1.26e-04	0.0
959	17	4.03e-03	3.17e-03	-0.07	-1.43e-04	7.76e-05	0.0
959	27	7.71e-04	5.75e-03	-0.07	-1.63e-04	8.67e-05	0.0
959	49	5.49e-03	3.32e-03	-0.07	-1.43e-04	7.74e-05	0.0
959	59	3.12e-04	7.43e-03	-0.07	-1.76e-04	9.18e-05	0.0
959	70	1.88e-03	3.54e-03	-0.08	-1.73e-04	9.43e-05	0.0
959	72	1.62e-03	3.04e-03	-0.07	-1.48e-04	8.13e-05	0.0
960	2	1.99e-03	4.99e-03	-0.11	-2.49e-04	1.01e-04	0.0
960	17	3.87e-03	3.37e-03	-0.07	-1.56e-04	6.88e-05	0.0
960	21	1.82e-03	5.98e-03	-0.08	-1.77e-04	6.99e-05	0.0
960	27	4.02e-04	5.97e-03	-0.08	-1.78e-04	6.77e-05	0.0
960	49	5.43e-03	3.55e-03	-0.07	-1.58e-04	7.23e-05	0.0
960	53	2.18e-03	7.70e-03	-0.08	-1.91e-04	7.40e-05	0.0
960	59	-8.57e-05	7.69e-03	-0.08	-1.93e-04	7.05e-05	0.0
960	70	1.49e-03	3.73e-03	-0.08	-1.86e-04	7.58e-05	0.0
960	72	1.29e-03	3.19e-03	-0.07	-1.59e-04	6.55e-05	0.0
961	1	7.47e-04	3.85e-03	-0.09	-1.89e-04	3.30e-05	0.0
961	2	7.39e-04	4.61e-03	-0.10	-2.26e-04	3.12e-05	0.0
961	13	3.65e-03	4.23e-03	-0.08	-1.59e-04	5.60e-05	0.0
961	17	3.81e-03	3.87e-03	-0.08	-1.58e-04	5.61e-05	0.0
961	21	1.27e-03	6.00e-03	-0.07	-1.65e-04	3.47e-05	0.0
961	45	5.47e-03	4.98e-03	-0.08	-1.68e-04	7.41e-05	0.0
961	49	5.72e-03	4.41e-03	-0.08	-1.65e-04	7.42e-05	0.0
961	53	1.68e-03	7.79e-03	-0.08	-1.76e-04	4.00e-05	0.0
961	69	5.72e-04	2.95e-03	-0.07	-1.45e-04	2.53e-05	0.0
961	70	5.67e-04	3.46e-03	-0.08	-1.70e-04	2.41e-05	0.0
961	71	5.72e-04	2.95e-03	-0.07	-1.45e-04	2.53e-05	0.0
961	72	5.71e-04	3.05e-03	-0.07	-1.50e-04	2.50e-05	0.0
962	2	-3.50e-04	5.38e-03	-0.11	-2.68e-04	-2.57e-05	0.0
962	20	-2.89e-03	3.09e-03	-0.08	-1.60e-04	-2.09e-05	0.0
962	27	-1.15e-03	6.29e-03	-0.08	-1.91e-04	-2.07e-05	0.0
962	52	-4.48e-03	2.97e-03	-0.07	-1.58e-04	-2.45e-05	0.0
962	59	-1.71e-03	8.06e-03	-0.08	-2.07e-04	-2.41e-05	0.0
962	70	-2.58e-04	4.01e-03	-0.08	-2.00e-04	-1.91e-05	0.0
962	72	-2.03e-04	3.43e-03	-0.08	-1.71e-04	-1.57e-05	0.0
963	2	-1.17e-03	5.30e-03	-0.11	-2.59e-04	-6.69e-05	0.0
963	20	-3.24e-03	3.04e-03	-0.07	-1.55e-04	-3.82e-05	0.0
963	27	-1.64e-03	6.21e-03	-0.08	-1.82e-04	-4.70e-05	0.0
963	52	-4.73e-03	2.91e-03	-0.07	-1.52e-04	-3.70e-05	0.0
963	59	-2.20e-03	7.95e-03	-0.08	-1.95e-04	-5.10e-05	0.0
963	70	-8.74e-04	3.96e-03	-0.08	-1.94e-04	-4.99e-05	0.0
963	72	-7.38e-04	3.40e-03	-0.08	-1.66e-04	-4.22e-05	0.0
964	2	-1.08e-03	4.85e-03	-0.10	-2.38e-04	-6.24e-05	0.0
964	20	-3.11e-03	2.81e-03	-0.07	-1.43e-04	-3.18e-05	0.0
964	27	-1.54e-03	5.86e-03	-0.07	-1.65e-04	-4.25e-05	0.0
964	52	-4.56e-03	2.70e-03	-0.07	-1.41e-04	-2.86e-05	0.0
964	59	-2.07e-03	7.56e-03	-0.08	-1.76e-04	-4.56e-05	0.0
964	70	-8.05e-04	3.62e-03	-0.08	-1.78e-04	-4.66e-05	0.0
964	72	-6.76e-04	3.12e-03	-0.07	-1.53e-04	-3.92e-05	0.0

965	2	-5.95e-04	4.54e-03	-0.10	-2.24e-04	-3.74e-05	0.0
965	20	-2.78e-03	2.67e-03	-0.07	-1.37e-04	-1.48e-05	0.0
965	27	-1.19e-03	5.65e-03	-0.07	-1.55e-04	-2.49e-05	0.0
965	52	-4.22e-03	2.59e-03	-0.07	-1.35e-04	-1.08e-05	0.0
965	59	-1.69e-03	7.32e-03	-0.07	-1.64e-04	-2.69e-05	0.0
965	70	-4.41e-04	3.39e-03	-0.08	-1.67e-04	-2.78e-05	0.0
965	72	-3.59e-04	2.92e-03	-0.07	-1.44e-04	-2.28e-05	0.0
966	1	7.57e-05	3.59e-03	-0.09	-1.78e-04	-1.38e-06	0.0
966	2	3.50e-05	4.44e-03	-0.10	-2.19e-04	-4.76e-06	0.0
966	17	2.51e-03	2.85e-03	-0.07	-1.37e-04	-5.23e-06	0.0
966	27	-7.56e-04	5.60e-03	-0.07	-1.52e-04	4.36e-06	0.0
966	49	3.95e-03	2.90e-03	-0.07	-1.37e-04	-7.71e-06	0.0
966	59	-1.23e-03	7.27e-03	-0.07	-1.61e-04	7.52e-06	0.0
966	69	5.85e-05	2.76e-03	-0.07	-1.36e-04	-1.05e-06	0.0
966	70	3.13e-05	3.32e-03	-0.08	-1.64e-04	-3.30e-06	0.0
966	71	5.85e-05	2.76e-03	-0.07	-1.36e-04	-1.05e-06	0.0
966	72	5.31e-05	2.87e-03	-0.07	-1.42e-04	-1.50e-06	0.0
967	2	6.11e-04	4.56e-03	-0.10	-2.25e-04	2.52e-05	0.0
967	17	2.93e-03	2.90e-03	-0.07	-1.40e-04	1.59e-05	0.0
967	27	-3.74e-04	5.71e-03	-0.07	-1.57e-04	2.23e-05	0.0
967	49	4.40e-03	2.93e-03	-0.07	-1.40e-04	1.47e-05	0.0
967	59	-8.41e-04	7.40e-03	-0.07	-1.66e-04	2.50e-05	0.0
967	70	4.64e-04	3.41e-03	-0.08	-1.68e-04	1.92e-05	0.0
967	72	4.31e-04	2.95e-03	-0.07	-1.46e-04	1.81e-05	0.0
968	2	9.02e-04	4.85e-03	-0.10	-2.38e-04	4.07e-05	0.0
968	17	3.22e-03	3.08e-03	-0.07	-1.49e-04	3.08e-05	0.0
968	27	-2.07e-04	5.96e-03	-0.07	-1.67e-04	3.10e-05	0.0
968	49	4.77e-03	3.11e-03	-0.07	-1.48e-04	3.26e-05	0.0
968	59	-6.84e-04	7.68e-03	-0.08	-1.78e-04	3.29e-05	0.0
968	70	6.82e-04	3.63e-03	-0.08	-1.78e-04	3.08e-05	0.0
968	72	6.22e-04	3.15e-03	-0.07	-1.55e-04	2.83e-05	0.0
969	2	4.54e-04	4.99e-03	-0.11	-2.46e-04	1.98e-05	0.0
969	17	3.21e-03	3.21e-03	-0.07	-1.56e-04	2.83e-05	0.0
969	21	9.51e-04	6.08e-03	-0.08	-1.73e-04	1.99e-05	0.0
969	27	-5.87e-04	6.06e-03	-0.08	-1.73e-04	1.34e-05	0.0
969	49	4.91e-03	3.26e-03	-0.07	-1.58e-04	3.62e-05	0.0
969	53	1.32e-03	7.82e-03	-0.08	-1.84e-04	2.28e-05	0.0
969	59	-1.12e-03	7.80e-03	-0.08	-1.85e-04	1.26e-05	0.0
969	70	3.46e-04	3.73e-03	-0.08	-1.84e-04	1.51e-05	0.0
969	72	3.33e-04	3.23e-03	-0.07	-1.59e-04	1.49e-05	0.0
970	2	-1.81e-04	5.07e-03	-0.11	-2.49e-04	-1.78e-05	0.0
970	20	-3.00e-03	3.13e-03	-0.07	-1.51e-04	-2.26e-05	0.0
970	27	-1.04e-03	6.14e-03	-0.08	-1.75e-04	-1.52e-05	0.0
970	52	-4.73e-03	3.12e-03	-0.07	-1.49e-04	-3.11e-05	0.0
970	59	-1.62e-03	7.90e-03	-0.08	-1.86e-04	-1.92e-05	0.0
970	70	-1.29e-04	3.79e-03	-0.08	-1.86e-04	-1.30e-05	0.0
970	72	-7.36e-05	3.29e-03	-0.07	-1.62e-04	-9.26e-06	0.0
971	2	-7.59e-04	4.90e-03	-0.10	-2.40e-04	-4.63e-05	0.0
971	20	-3.23e-03	3.04e-03	-0.07	-1.46e-04	-3.59e-05	0.0
971	21	1.29e-04	6.05e-03	-0.07	-1.70e-04	-2.67e-05	0.0
971	25	2.36e-04	5.78e-03	-0.07	-1.70e-04	-2.58e-05	0.0
971	52	-4.90e-03	3.02e-03	-0.07	-1.42e-04	-4.20e-05	0.0
971	53	4.49e-04	7.80e-03	-0.08	-1.81e-04	-2.72e-05	0.0
971	57	6.20e-04	7.37e-03	-0.08	-1.81e-04	-2.58e-05	0.0
971	70	-5.61e-04	3.67e-03	-0.08	-1.80e-04	-3.43e-05	0.0
971	72	-4.41e-04	3.20e-03	-0.07	-1.57e-04	-2.73e-05	0.0
972	2	-5.94e-04	4.58e-03	-0.10	-2.26e-04	-3.74e-05	0.0
972	20	-3.11e-03	2.87e-03	-0.07	-1.37e-04	-2.95e-05	0.0
972	21	2.64e-04	5.84e-03	-0.07	-1.59e-04	-1.99e-05	0.0
972	25	3.70e-04	5.55e-03	-0.07	-1.60e-04	-1.91e-05	0.0
972	52	-4.78e-03	2.85e-03	-0.07	-1.33e-04	-3.55e-05	0.0
972	53	5.95e-04	7.57e-03	-0.08	-1.69e-04	-2.01e-05	0.0
972	57	7.64e-04	7.11e-03	-0.08	-1.69e-04	-1.88e-05	0.0
972	70	-4.36e-04	3.43e-03	-0.08	-1.69e-04	-2.76e-05	0.0
972	72	-3.22e-04	3.00e-03	-0.07	-1.48e-04	-2.10e-05	0.0
973	2	-1.30e-04	4.41e-03	-0.10	-2.18e-04	-1.32e-05	0.0
973	4	-1.38e-04	3.55e-03	-0.08	-1.75e-04	-1.24e-05	0.0
973	17	2.90e-03	2.82e-03	-0.07	-1.45e-04	1.20e-05	0.0
973	21	6.14e-04	5.75e-03	-0.07	-1.55e-04	2.47e-06	0.0
973	25	7.26e-04	5.45e-03	-0.07	-1.55e-04	3.48e-06	0.0
973	49	4.60e-03	2.83e-03	-0.07	-1.49e-04	2.10e-05	0.0
973	53	9.71e-04	7.49e-03	-0.07	-1.64e-04	5.70e-06	0.0
973	57	1.15e-03	7.00e-03	-0.07	-1.64e-04	7.30e-06	0.0
973	70	-8.66e-05	3.31e-03	-0.08	-1.63e-04	-9.34e-06	0.0
973	71	1.24e-05	2.81e-03	-0.07	-1.39e-04	-3.38e-06	0.0
973	72	-7.36e-06	2.91e-03	-0.07	-1.44e-04	-4.57e-06	0.0

974	2	2.57e-03	5.82e-03	-0.11	-2.83e-04	1.33e-04	0.0
974	17	4.16e-03	4.75e-03	-0.08	-1.79e-04	8.83e-05	0.0
974	31	1.43e-03	6.73e-03	-0.08	-2.02e-04	9.00e-05	0.0
974	35	1.36e-03	6.56e-03	-0.08	-2.02e-04	8.95e-05	0.0
974	49	5.70e-03	5.46e-03	-0.08	-1.82e-04	9.27e-05	0.0
974	63	1.35e-03	8.62e-03	-0.08	-2.19e-04	9.54e-05	0.0
974	67	1.24e-03	8.34e-03	-0.08	-2.20e-04	9.47e-05	0.0
974	70	1.92e-03	4.34e-03	-0.08	-2.12e-04	9.90e-05	0.0
974	72	1.63e-03	3.70e-03	-0.08	-1.80e-04	8.44e-05	0.0
975	2	-2.30e-03	-4.91e-03	-0.11	2.40e-04	-1.29e-04	0.0
975	8	-4.67e-03	-3.03e-03	-0.08	1.60e-04	-1.17e-04	0.0
975	32	-2.15e-03	-6.23e-03	-0.08	1.75e-04	-9.93e-05	0.0
975	36	-2.02e-03	-6.54e-03	-0.08	1.75e-04	-9.66e-05	0.0
975	40	-6.50e-03	-2.98e-03	-0.08	1.65e-04	-1.35e-04	0.0
975	64	-2.50e-03	-8.08e-03	-0.08	1.88e-04	-1.07e-04	0.0
975	68	-2.29e-03	-8.57e-03	-0.08	1.88e-04	-1.03e-04	0.0
975	70	-1.74e-03	-3.68e-03	-0.08	1.80e-04	-9.71e-05	0.0
975	72	-1.60e-03	-3.22e-03	-0.08	1.57e-04	-8.84e-05	0.0
976	1	9.52e-05	-4.22e-03	-0.09	2.07e-04	0.0	0.0
976	2	3.97e-05	-5.18e-03	-0.11	2.54e-04	-2.96e-06	0.0
976	10	3.00e-03	-3.28e-03	-0.07	1.62e-04	1.47e-05	0.0
976	24	-8.88e-04	-6.19e-03	-0.08	1.78e-04	-1.35e-06	0.0
976	42	4.72e-03	-3.30e-03	-0.07	1.64e-04	2.29e-05	0.0
976	56	-1.45e-03	-7.94e-03	-0.08	1.89e-04	-2.61e-06	0.0
976	69	7.27e-05	-3.23e-03	-0.07	1.59e-04	0.0	0.0
976	70	3.56e-05	-3.88e-03	-0.08	1.90e-04	-1.91e-06	0.0
976	71	7.27e-05	-3.23e-03	-0.07	1.59e-04	0.0	0.0
976	72	6.53e-05	-3.36e-03	-0.07	1.65e-04	0.0	0.0
977	2	4.59e-04	-5.64e-03	-0.11	2.83e-04	2.24e-05	0.0
977	10	3.05e-03	-3.69e-03	-0.08	1.77e-04	2.30e-05	0.0
977	24	-6.04e-04	-6.41e-03	-0.08	2.00e-04	1.33e-05	0.0
977	42	4.67e-03	-3.83e-03	-0.08	1.79e-04	2.78e-05	0.0
977	56	-1.14e-03	-8.16e-03	-0.08	2.16e-04	1.25e-05	0.0
977	70	3.46e-04	-4.22e-03	-0.09	2.11e-04	1.69e-05	0.0
977	72	3.12e-04	-3.61e-03	-0.08	1.81e-04	1.52e-05	0.0
978	2	4.80e-04	-5.71e-03	-0.11	2.80e-04	2.16e-05	0.0
978	10	3.05e-03	-4.30e-03	-0.08	1.77e-04	2.47e-05	0.0
978	32	-6.47e-05	-5.91e-03	-0.08	1.94e-04	1.20e-05	0.0
978	36	1.40e-05	-5.96e-03	-0.08	1.94e-04	1.31e-05	0.0
978	42	4.67e-03	-4.78e-03	-0.08	1.80e-04	3.12e-05	0.0
978	64	-2.81e-04	-7.34e-03	-0.08	2.07e-04	1.11e-05	0.0
978	68	-1.56e-04	-7.42e-03	-0.08	2.07e-04	1.28e-05	0.0
978	70	3.60e-04	-4.27e-03	-0.08	2.09e-04	1.62e-05	0.0
978	72	3.14e-04	-3.64e-03	-0.08	1.79e-04	1.41e-05	0.0
979	2	1.86e-04	-6.39e-03	-0.12	3.13e-04	7.15e-06	0.0
979	10	2.86e-03	-5.08e-03	-0.08	2.00e-04	1.54e-05	0.0
979	30	1.29e-03	-7.05e-03	-0.08	2.21e-04	8.72e-06	0.0
979	34	1.20e-03	-6.89e-03	-0.08	2.21e-04	7.63e-06	0.0
979	42	4.48e-03	-5.79e-03	-0.08	2.05e-04	2.19e-05	0.0
979	62	1.98e-03	-8.92e-03	-0.09	2.40e-04	1.13e-05	0.0
979	66	1.84e-03	-8.66e-03	-0.09	2.40e-04	9.53e-06	0.0
979	70	1.39e-04	-4.77e-03	-0.09	2.33e-04	5.34e-06	0.0
979	72	1.18e-04	-4.06e-03	-0.08	1.99e-04	4.58e-06	0.0
980	2	-4.70e-04	-5.68e-03	-0.11	2.84e-04	-2.49e-05	0.0
980	11	-3.02e-03	-2.92e-03	-0.07	1.67e-04	-2.52e-05	0.0
980	22	2.84e-04	-6.12e-03	-0.08	2.01e-04	-1.34e-05	0.0
980	24	-1.28e-03	-6.15e-03	-0.08	2.01e-04	-1.95e-05	0.0
980	43	-4.63e-03	-2.60e-03	-0.07	1.64e-04	-3.08e-05	0.0
980	54	6.24e-04	-7.68e-03	-0.08	2.17e-04	-1.21e-05	0.0
980	56	-1.86e-03	-7.73e-03	-0.08	2.17e-04	-2.17e-05	0.0
980	70	-3.52e-04	-4.24e-03	-0.08	2.12e-04	-1.87e-05	0.0
980	72	-3.04e-04	-3.62e-03	-0.08	1.81e-04	-1.62e-05	0.0
981	1	5.40e-04	-4.00e-03	-0.09	1.97e-04	2.68e-05	0.0
981	2	5.03e-04	-4.78e-03	-0.10	2.35e-04	2.44e-05	0.0
981	6	3.59e-03	-3.43e-03	-0.08	1.66e-04	5.49e-05	0.0
981	10	3.76e-03	-3.08e-03	-0.08	1.64e-04	5.51e-05	0.0
981	26	1.09e-03	-6.14e-03	-0.08	1.72e-04	2.96e-05	0.0
981	38	5.46e-03	-3.64e-03	-0.08	1.75e-04	7.53e-05	0.0
981	42	5.73e-03	-3.08e-03	-0.08	1.72e-04	7.55e-05	0.0
981	58	1.50e-03	-7.94e-03	-0.08	1.84e-04	3.49e-05	0.0
981	69	4.13e-04	-3.07e-03	-0.07	1.51e-04	2.04e-05	0.0
981	70	3.88e-04	-3.59e-03	-0.08	1.76e-04	1.89e-05	0.0
981	71	4.13e-04	-3.07e-03	-0.07	1.51e-04	2.04e-05	0.0
981	72	4.08e-04	-3.18e-03	-0.07	1.56e-04	2.01e-05	0.0
982	2	-2.82e-03	-4.48e-03	-0.10	2.18e-04	-1.48e-04	0.0
982	8	-4.90e-03	-2.81e-03	-0.07	1.46e-04	-1.25e-04	0.0

982	32	-2.48e-03	-5.91e-03	-0.07	1.59e-04	-1.12e-04	0.0
982	36	-2.36e-03	-6.20e-03	-0.07	1.59e-04	-1.10e-04	0.0
982	40	-6.68e-03	-2.80e-03	-0.07	1.51e-04	-1.41e-04	0.0
982	64	-2.83e-03	-7.73e-03	-0.08	1.71e-04	-1.20e-04	0.0
982	68	-2.65e-03	-8.19e-03	-0.08	1.71e-04	-1.17e-04	0.0
982	70	-2.13e-03	-3.36e-03	-0.08	1.64e-04	-1.11e-04	0.0
982	72	-1.94e-03	-2.93e-03	-0.07	1.43e-04	-1.01e-04	0.0
983	2	-2.49e-03	-3.97e-03	-0.09	1.94e-04	-1.30e-04	0.0
983	8	-4.45e-03	-2.44e-03	-0.07	1.26e-04	-1.03e-04	0.0
983	32	-2.76e-03	-5.48e-03	-0.07	1.39e-04	-9.82e-05	0.0
983	36	-2.67e-03	-5.76e-03	-0.07	1.39e-04	-9.70e-05	0.0
983	40	-6.08e-03	-2.39e-03	-0.07	1.29e-04	-1.13e-04	0.0
983	64	-3.40e-03	-7.24e-03	-0.07	1.49e-04	-1.05e-04	0.0
983	68	-3.25e-03	-7.69e-03	-0.07	1.49e-04	-1.03e-04	0.0
983	70	-1.88e-03	-2.98e-03	-0.07	1.45e-04	-9.84e-05	0.0
983	72	-1.72e-03	-2.60e-03	-0.07	1.27e-04	-8.94e-05	0.0
984	2	-1.76e-03	-3.49e-03	-0.09	1.72e-04	-9.22e-05	0.0
984	8	-3.84e-03	-2.13e-03	-0.06	1.11e-04	-7.24e-05	0.0
984	32	-1.67e-03	-5.07e-03	-0.06	1.22e-04	-7.03e-05	0.0
984	36	-1.59e-03	-5.34e-03	-0.06	1.22e-04	-6.98e-05	0.0
984	40	-5.40e-03	-2.09e-03	-0.06	1.13e-04	-7.80e-05	0.0
984	64	-1.94e-03	-6.77e-03	-0.07	1.30e-04	-7.47e-05	0.0
984	68	-1.81e-03	-7.20e-03	-0.07	1.30e-04	-7.38e-05	0.0
984	70	-1.33e-03	-2.61e-03	-0.07	1.29e-04	-6.97e-05	0.0
984	72	-1.23e-03	-2.28e-03	-0.06	1.12e-04	-6.41e-05	0.0
985	2	-8.31e-04	-3.21e-03	-0.08	1.59e-04	-4.41e-05	0.0
985	11	-3.16e-03	-7.00e-04	-0.06	9.68e-05	-3.51e-05	0.0
985	32	-1.01e-03	-4.82e-03	-0.06	1.12e-04	-3.67e-05	0.0
985	36	-9.43e-04	-5.08e-03	-0.06	1.12e-04	-3.65e-05	0.0
985	43	-4.66e-03	6.89e-05	-0.06	9.50e-05	-3.69e-05	0.0
985	64	-1.25e-03	-6.48e-03	-0.06	1.19e-04	-3.93e-05	0.0
985	68	-1.14e-03	-6.89e-03	-0.06	1.19e-04	-3.91e-05	0.0
985	70	-6.34e-04	-2.40e-03	-0.06	1.19e-04	-3.36e-05	0.0
985	72	-6.18e-04	-2.08e-03	-0.06	1.04e-04	-3.24e-05	0.0
986	2	1.72e-04	-3.14e-03	-0.08	1.57e-04	7.51e-06	0.0
986	10	2.51e-03	-3.22e-03	-0.06	1.00e-04	0.0	0.0
986	32	-3.19e-04	-4.73e-03	-0.06	1.09e-04	-2.72e-06	0.0
986	36	-2.55e-04	-4.97e-03	-0.06	1.09e-04	-2.80e-06	0.0
986	42	3.97e-03	-3.96e-03	-0.06	1.02e-04	0.0	0.0
986	64	-5.21e-04	-6.37e-03	-0.06	1.16e-04	-4.62e-06	0.0
986	68	-4.20e-04	-6.76e-03	-0.06	1.16e-04	-4.76e-06	0.0
986	70	1.18e-04	-2.35e-03	-0.06	1.17e-04	5.14e-06	0.0
986	72	4.35e-05	-2.03e-03	-0.06	1.01e-04	1.54e-06	0.0
987	2	1.16e-03	-3.29e-03	-0.08	1.64e-04	5.82e-05	0.0
987	10	3.10e-03	-3.26e-03	-0.06	1.04e-04	3.27e-05	0.0
987	32	3.59e-04	-4.81e-03	-0.06	1.14e-04	3.78e-05	0.0
987	36	4.19e-04	-5.03e-03	-0.06	1.14e-04	3.75e-05	0.0
987	42	4.55e-03	-3.98e-03	-0.06	1.05e-04	3.28e-05	0.0
987	64	1.88e-04	-6.44e-03	-0.06	1.21e-04	4.07e-05	0.0
987	68	2.82e-04	-6.80e-03	-0.06	1.21e-04	4.03e-05	0.0
987	70	8.58e-04	-2.46e-03	-0.06	1.23e-04	4.31e-05	0.0
987	72	6.92e-04	-2.12e-03	-0.06	1.06e-04	3.48e-05	0.0
988	2	2.03e-03	-3.66e-03	-0.09	1.82e-04	1.03e-04	0.0
988	10	3.65e-03	-3.45e-03	-0.06	1.14e-04	6.13e-05	0.0
988	32	9.63e-04	-5.04e-03	-0.06	1.26e-04	6.88e-05	0.0
988	36	1.02e-03	-5.25e-03	-0.06	1.26e-04	6.85e-05	0.0
988	42	5.09e-03	-4.15e-03	-0.06	1.16e-04	6.13e-05	0.0
988	64	8.19e-04	-6.68e-03	-0.07	1.35e-04	7.32e-05	0.0
988	68	9.11e-04	-7.01e-03	-0.07	1.35e-04	7.27e-05	0.0
988	70	1.52e-03	-2.73e-03	-0.07	1.36e-04	7.71e-05	0.0
988	72	1.27e-03	-2.35e-03	-0.06	1.17e-04	6.45e-05	0.0
989	2	2.69e-03	-4.24e-03	-0.10	2.09e-04	1.38e-04	0.0
989	10	4.09e-03	-3.77e-03	-0.07	1.31e-04	8.40e-05	0.0
989	32	1.42e-03	-5.42e-03	-0.07	1.46e-04	9.25e-05	0.0
989	36	1.48e-03	-5.62e-03	-0.07	1.46e-04	9.23e-05	0.0
989	42	5.54e-03	-4.47e-03	-0.07	1.32e-04	8.46e-05	0.0
989	64	1.30e-03	-7.09e-03	-0.07	1.57e-04	9.81e-05	0.0
989	68	1.39e-03	-7.40e-03	-0.07	1.56e-04	9.77e-05	0.0
989	70	2.01e-03	-3.17e-03	-0.07	1.56e-04	1.03e-04	0.0
989	72	1.70e-03	-2.71e-03	-0.07	1.34e-04	8.69e-05	0.0
990	2	2.96e-03	-5.00e-03	-0.10	2.45e-04	1.52e-04	0.0
990	10	4.31e-03	-4.23e-03	-0.07	1.53e-04	9.60e-05	0.0
990	32	1.62e-03	-5.95e-03	-0.07	1.73e-04	1.03e-04	0.0
990	36	1.68e-03	-6.14e-03	-0.07	1.72e-04	1.03e-04	0.0
990	42	5.80e-03	-4.92e-03	-0.07	1.55e-04	9.81e-05	0.0
990	64	1.51e-03	-7.67e-03	-0.08	1.86e-04	1.09e-04	0.0

990	68	1.60e-03	-7.96e-03	-0.08	1.85e-04	1.09e-04	0.0
990	70	2.21e-03	-3.74e-03	-0.08	1.83e-04	1.14e-04	0.0
990	72	1.88e-03	-3.19e-03	-0.07	1.57e-04	9.67e-05	0.0
991	2	2.56e-03	-5.84e-03	-0.11	2.84e-04	1.32e-04	0.0
991	10	4.16e-03	-4.75e-03	-0.08	1.79e-04	8.81e-05	0.0
991	32	1.35e-03	-6.57e-03	-0.08	2.02e-04	8.91e-05	0.0
991	36	1.42e-03	-6.74e-03	-0.08	2.02e-04	8.95e-05	0.0
991	42	5.69e-03	-5.46e-03	-0.08	1.82e-04	9.26e-05	0.0
991	64	1.22e-03	-8.35e-03	-0.08	2.20e-04	9.41e-05	0.0
991	68	1.33e-03	-8.63e-03	-0.08	2.19e-04	9.48e-05	0.0
991	70	1.91e-03	-4.36e-03	-0.08	2.12e-04	9.87e-05	0.0
991	72	1.63e-03	-3.71e-03	-0.08	1.81e-04	8.41e-05	0.0
992	2	6.75e-04	-6.12e-03	-0.12	3.00e-04	3.98e-05	0.0
992	10	3.16e-03	-4.93e-03	-0.08	1.91e-04	3.72e-05	0.0
992	30	1.64e-03	-6.91e-03	-0.08	2.15e-04	3.18e-05	0.0
992	34	1.55e-03	-6.75e-03	-0.08	2.15e-04	3.06e-05	0.0
992	42	4.79e-03	-5.66e-03	-0.08	1.97e-04	4.49e-05	0.0
992	62	2.36e-03	-8.81e-03	-0.09	2.35e-04	3.63e-05	0.0
992	66	2.22e-03	-8.54e-03	-0.09	2.35e-04	3.44e-05	0.0
992	70	5.03e-04	-4.57e-03	-0.09	2.24e-04	2.97e-05	0.0
992	72	4.25e-04	-3.88e-03	-0.08	1.91e-04	2.52e-05	0.0
993	2	-6.25e-04	-5.90e-03	-0.12	2.92e-04	-4.36e-05	0.0
993	8	-3.07e-03	-3.86e-03	-0.08	1.82e-04	-3.79e-05	0.0
993	30	7.01e-04	-6.73e-03	-0.08	2.11e-04	-2.66e-05	0.0
993	36	-7.72e-04	-6.73e-03	-0.08	2.10e-04	-3.20e-05	0.0
993	40	-4.66e-03	-4.03e-03	-0.08	1.84e-04	-4.46e-05	0.0
993	62	1.34e-03	-8.59e-03	-0.09	2.30e-04	-2.68e-05	0.0
993	68	-1.01e-03	-8.59e-03	-0.09	2.29e-04	-3.53e-05	0.0
993	70	-4.67e-04	-4.40e-03	-0.09	2.18e-04	-3.26e-05	0.0
993	72	-3.94e-04	-3.74e-03	-0.08	1.86e-04	-2.77e-05	0.0
994	2	-2.38e-03	-5.75e-03	-0.11	2.80e-04	-1.27e-04	0.0
994	8	-3.96e-03	-3.75e-03	-0.07	1.72e-04	-8.13e-05	0.0
994	30	-9.63e-04	-6.56e-03	-0.08	2.00e-04	-8.69e-05	0.0
994	40	-5.43e-03	-3.89e-03	-0.07	1.73e-04	-8.35e-05	0.0
994	62	-6.71e-04	-8.37e-03	-0.08	2.17e-04	-9.25e-05	0.0
994	70	-1.78e-03	-4.29e-03	-0.08	2.09e-04	-9.50e-05	0.0
994	72	-1.52e-03	-3.65e-03	-0.08	1.78e-04	-8.10e-05	0.0
995	2	-2.67e-03	-4.96e-03	-0.10	2.43e-04	-1.40e-04	0.0
995	8	-4.03e-03	-3.27e-03	-0.07	1.49e-04	-8.48e-05	0.0
995	30	-1.17e-03	-5.89e-03	-0.07	1.71e-04	-9.65e-05	0.0
995	40	-5.44e-03	-3.41e-03	-0.07	1.49e-04	-8.43e-05	0.0
995	62	-8.92e-04	-7.59e-03	-0.08	1.84e-04	-1.03e-04	0.0
995	70	-1.99e-03	-3.70e-03	-0.08	1.82e-04	-1.05e-04	0.0
995	72	-1.70e-03	-3.16e-03	-0.07	1.55e-04	-8.94e-05	0.0
996	2	-2.32e-03	-4.26e-03	-0.10	2.11e-04	-1.22e-04	0.0
996	8	-3.76e-03	-2.87e-03	-0.07	1.29e-04	-7.05e-05	0.0
996	30	-5.01e-04	-5.32e-03	-0.07	1.46e-04	-8.42e-05	0.0
996	40	-5.13e-03	-3.03e-03	-0.07	1.29e-04	-6.84e-05	0.0
996	62	4.01e-05	-6.93e-03	-0.07	1.57e-04	-9.02e-05	0.0
996	70	-1.74e-03	-3.18e-03	-0.07	1.57e-04	-9.10e-05	0.0
996	72	-1.48e-03	-2.71e-03	-0.07	1.34e-04	-7.75e-05	0.0
997	2	-1.64e-03	-3.75e-03	-0.09	1.87e-04	-8.61e-05	0.0
997	8	-3.30e-03	-2.60e-03	-0.06	1.15e-04	-4.69e-05	0.0
997	30	-5.79e-05	-4.91e-03	-0.07	1.29e-04	-6.05e-05	0.0
997	40	-4.65e-03	-2.78e-03	-0.06	1.16e-04	-4.38e-05	0.0
997	62	4.95e-04	-6.45e-03	-0.07	1.37e-04	-6.53e-05	0.0
997	70	-1.22e-03	-2.80e-03	-0.07	1.39e-04	-6.43e-05	0.0
997	72	-1.04e-03	-2.40e-03	-0.06	1.19e-04	-5.47e-05	0.0
998	2	-7.79e-04	-3.47e-03	-0.09	1.73e-04	-4.18e-05	0.0
998	11	-2.75e-03	-1.20e-03	-0.06	1.02e-04	-1.68e-05	0.0
998	30	5.06e-04	-4.65e-03	-0.06	1.19e-04	-3.10e-05	0.0
998	34	4.67e-04	-4.54e-03	-0.06	1.19e-04	-3.03e-05	0.0
998	43	-4.10e-03	-6.55e-04	-0.06	1.00e-04	-1.21e-05	0.0
998	62	1.08e-03	-6.14e-03	-0.06	1.26e-04	-3.45e-05	0.0
998	66	1.02e-03	-5.97e-03	-0.06	1.26e-04	-3.35e-05	0.0
998	70	-5.81e-04	-2.59e-03	-0.07	1.29e-04	-3.11e-05	0.0
998	72	-4.88e-04	-2.22e-03	-0.06	1.11e-04	-2.61e-05	0.0
999	2	1.41e-04	-3.42e-03	-0.09	1.71e-04	5.55e-06	0.0
999	10	2.41e-03	-2.97e-03	-0.06	1.07e-04	-1.88e-06	0.0
999	32	-2.02e-04	-4.47e-03	-0.06	1.16e-04	8.49e-06	0.0
999	36	-1.63e-04	-4.56e-03	-0.06	1.16e-04	7.84e-06	0.0
999	42	3.76e-03	-3.49e-03	-0.06	1.09e-04	-5.50e-06	0.0
999	64	-3.81e-04	-5.87e-03	-0.06	1.23e-04	1.10e-05	0.0
999	68	-3.20e-04	-6.02e-03	-0.06	1.23e-04	9.95e-06	0.0
999	70	1.07e-04	-2.55e-03	-0.07	1.27e-04	4.26e-06	0.0
999	72	1.04e-04	-2.18e-03	-0.06	1.09e-04	4.26e-06	0.0

1000	2	1.02e-03	-3.58e-03	-0.09	1.78e-04	5.08e-05	0.0
1000	10	2.98e-03	-3.03e-03	-0.06	1.11e-04	2.69e-05	0.0
1000	32	3.79e-04	-4.55e-03	-0.06	1.22e-04	3.66e-05	0.0
1000	36	4.18e-04	-4.63e-03	-0.06	1.22e-04	3.60e-05	0.0
1000	42	4.35e-03	-3.53e-03	-0.06	1.12e-04	2.38e-05	0.0
1000	64	2.22e-04	-5.94e-03	-0.06	1.30e-04	3.93e-05	0.0
1000	68	2.84e-04	-6.07e-03	-0.06	1.29e-04	3.83e-05	0.0
1000	70	7.66e-04	-2.67e-03	-0.07	1.33e-04	3.81e-05	0.0
1000	72	6.70e-04	-2.29e-03	-0.06	1.14e-04	3.33e-05	0.0
1001	2	1.75e-03	-3.96e-03	-0.09	1.96e-04	8.86e-05	0.0
1001	10	3.47e-03	-3.05e-03	-0.06	1.21e-04	5.22e-05	0.0
1001	32	8.60e-04	-4.84e-03	-0.07	1.35e-04	6.13e-05	0.0
1001	36	9.02e-04	-4.86e-03	-0.07	1.35e-04	6.08e-05	0.0
1001	42	4.87e-03	-3.41e-03	-0.06	1.22e-04	5.03e-05	0.0
1001	64	7.21e-04	-6.27e-03	-0.07	1.43e-04	6.47e-05	0.0
1001	68	7.86e-04	-6.30e-03	-0.07	1.43e-04	6.40e-05	0.0
1001	70	1.31e-03	-2.95e-03	-0.07	1.46e-04	6.64e-05	0.0
1001	72	1.14e-03	-2.53e-03	-0.06	1.26e-04	5.76e-05	0.0
1002	2	2.19e-03	-4.53e-03	-0.10	2.23e-04	1.12e-04	0.0
1002	10	3.81e-03	-3.42e-03	-0.07	1.38e-04	6.96e-05	0.0
1002	32	1.15e-03	-5.21e-03	-0.07	1.54e-04	7.61e-05	0.0
1002	36	1.19e-03	-5.23e-03	-0.07	1.54e-04	7.60e-05	0.0
1002	42	5.25e-03	-3.80e-03	-0.07	1.38e-04	6.96e-05	0.0
1002	64	1.02e-03	-6.65e-03	-0.07	1.64e-04	8.01e-05	0.0
1002	68	1.09e-03	-6.68e-03	-0.07	1.64e-04	7.98e-05	0.0
1002	70	1.64e-03	-3.38e-03	-0.07	1.66e-04	8.35e-05	0.0
1002	72	1.42e-03	-2.90e-03	-0.07	1.43e-04	7.23e-05	0.0
1003	2	2.09e-03	-5.20e-03	-0.10	2.54e-04	1.07e-04	0.0
1003	10	3.85e-03	-3.85e-03	-0.07	1.58e-04	7.17e-05	0.0
1003	32	1.07e-03	-5.68e-03	-0.07	1.77e-04	7.18e-05	0.0
1003	36	1.12e-03	-5.70e-03	-0.07	1.77e-04	7.21e-05	0.0
1003	42	5.36e-03	-4.25e-03	-0.07	1.59e-04	7.48e-05	0.0
1003	64	9.25e-04	-7.15e-03	-0.08	1.90e-04	7.49e-05	0.0
1003	68	1.02e-03	-7.18e-03	-0.08	1.90e-04	7.54e-05	0.0
1003	70	1.57e-03	-3.89e-03	-0.08	1.89e-04	8.01e-05	0.0
1003	72	1.36e-03	-3.32e-03	-0.07	1.62e-04	6.92e-05	0.0
1004	2	8.65e-04	-5.51e-03	-0.11	2.70e-04	4.62e-05	0.0
1004	10	3.28e-03	-4.19e-03	-0.07	1.70e-04	4.12e-05	0.0
1004	32	2.07e-04	-5.81e-03	-0.08	1.89e-04	2.83e-05	0.0
1004	36	2.84e-04	-5.86e-03	-0.08	1.89e-04	2.95e-05	0.0
1004	42	4.90e-03	-4.68e-03	-0.07	1.73e-04	4.85e-05	0.0
1004	64	1.31e-05	-7.25e-03	-0.08	2.04e-04	2.81e-05	0.0
1004	68	1.36e-04	-7.33e-03	-0.08	2.03e-04	3.00e-05	0.0
1004	70	6.48e-04	-4.11e-03	-0.08	2.02e-04	3.46e-05	0.0
1004	72	5.57e-04	-3.51e-03	-0.08	1.72e-04	2.98e-05	0.0
1005	2	-1.21e-04	-5.39e-03	-0.11	2.67e-04	-1.52e-05	0.0
1005	11	-2.77e-03	-2.61e-03	-0.07	1.56e-04	-1.93e-05	0.0
1005	36	-4.00e-04	-5.75e-03	-0.08	1.87e-04	-1.38e-05	0.0
1005	43	-4.36e-03	-2.21e-03	-0.07	1.52e-04	-2.54e-05	0.0
1005	68	-5.98e-04	-7.20e-03	-0.08	2.01e-04	-1.66e-05	0.0
1005	70	-8.90e-05	-4.02e-03	-0.08	1.99e-04	-1.13e-05	0.0
1005	72	-6.94e-05	-3.43e-03	-0.08	1.70e-04	-9.45e-06	0.0
1006	2	-1.23e-03	-5.29e-03	-0.11	2.58e-04	-6.79e-05	0.0
1006	11	-3.26e-03	-2.45e-03	-0.07	1.51e-04	-4.32e-05	0.0
1006	30	2.74e-04	-5.62e-03	-0.08	1.79e-04	-4.76e-05	0.0
1006	43	-4.74e-03	-1.98e-03	-0.07	1.46e-04	-4.40e-05	0.0
1006	62	8.84e-04	-7.02e-03	-0.08	1.92e-04	-5.09e-05	0.0
1006	70	-9.22e-04	-3.95e-03	-0.08	1.93e-04	-5.08e-05	0.0
1006	72	-7.94e-04	-3.38e-03	-0.07	1.65e-04	-4.37e-05	0.0
1007	2	-1.22e-03	-4.77e-03	-0.10	2.35e-04	-6.64e-05	0.0
1007	11	-3.18e-03	-2.18e-03	-0.07	1.38e-04	-3.84e-05	0.0
1007	22	-3.46e-04	-5.23e-03	-0.07	1.61e-04	-4.48e-05	0.0
1007	30	2.51e-04	-5.17e-03	-0.07	1.61e-04	-4.80e-05	0.0
1007	43	-4.60e-03	-1.74e-03	-0.07	1.34e-04	-3.67e-05	0.0
1007	54	-1.02e-04	-6.59e-03	-0.07	1.70e-04	-4.69e-05	0.0
1007	62	8.47e-04	-6.49e-03	-0.07	1.71e-04	-5.20e-05	0.0
1007	70	-9.14e-04	-3.56e-03	-0.08	1.75e-04	-4.97e-05	0.0
1007	72	-7.90e-04	-3.05e-03	-0.07	1.51e-04	-4.29e-05	0.0
1008	2	-7.41e-04	-4.39e-03	-0.10	2.17e-04	-4.09e-05	0.0
1008	11	-2.84e-03	-2.00e-03	-0.07	1.28e-04	-2.08e-05	0.0
1008	22	-2.43e-05	-4.99e-03	-0.07	1.48e-04	-2.88e-05	0.0
1008	43	-4.24e-03	-1.59e-03	-0.07	1.25e-04	-1.80e-05	0.0
1008	54	2.35e-04	-6.34e-03	-0.07	1.57e-04	-3.06e-05	0.0
1008	70	-5.55e-04	-3.28e-03	-0.07	1.62e-04	-3.07e-05	0.0
1008	72	-4.82e-04	-2.81e-03	-0.07	1.39e-04	-2.66e-05	0.0
1009	2	-4.47e-05	-4.22e-03	-0.10	2.10e-04	-4.45e-06	0.0

1009	11	-2.40e-03	-1.94e-03	-0.07	1.25e-04	2.28e-06	0.0
1009	22	4.47e-04	-4.90e-03	-0.07	1.43e-04	-6.85e-06	0.0
1009	26	4.07e-04	-4.89e-03	-0.07	1.43e-04	-6.41e-06	0.0
1009	43	-3.79e-03	-1.56e-03	-0.07	1.23e-04	5.43e-06	0.0
1009	54	7.31e-04	-6.27e-03	-0.07	1.52e-04	-9.08e-06	0.0
1009	58	6.68e-04	-6.24e-03	-0.07	1.52e-04	-8.39e-06	0.0
1009	70	-3.44e-05	-3.15e-03	-0.07	1.57e-04	-3.37e-06	0.0
1009	72	-3.39e-05	-2.71e-03	-0.07	1.35e-04	-3.12e-06	0.0
1010	2	6.89e-04	-4.30e-03	-0.10	2.13e-04	3.39e-05	0.0
1010	10	2.80e-03	-3.23e-03	-0.07	1.34e-04	1.81e-05	0.0
1010	24	-4.09e-04	-5.00e-03	-0.07	1.46e-04	2.61e-05	0.0
1010	28	-3.68e-04	-5.00e-03	-0.07	1.46e-04	2.56e-05	0.0
1010	42	4.20e-03	-3.57e-03	-0.07	1.36e-04	1.65e-05	0.0
1010	56	-8.98e-04	-6.39e-03	-0.07	1.55e-04	2.93e-05	0.0
1010	60	-8.33e-04	-6.39e-03	-0.07	1.55e-04	2.86e-05	0.0
1010	70	5.15e-04	-3.21e-03	-0.07	1.59e-04	2.53e-05	0.0
1010	72	4.39e-04	-2.75e-03	-0.07	1.37e-04	2.16e-05	0.0
1011	2	1.29e-03	-4.61e-03	-0.10	2.27e-04	6.56e-05	0.0
1011	10	3.21e-03	-3.39e-03	-0.07	1.42e-04	3.91e-05	0.0
1011	24	-1.27e-06	-5.27e-03	-0.07	1.57e-04	4.70e-05	0.0
1011	42	4.63e-03	-3.72e-03	-0.07	1.43e-04	3.85e-05	0.0
1011	56	-4.69e-04	-6.71e-03	-0.07	1.68e-04	5.10e-05	0.0
1011	70	9.65e-04	-3.44e-03	-0.08	1.70e-04	4.90e-05	0.0
1011	72	8.27e-04	-2.95e-03	-0.07	1.46e-04	4.20e-05	0.0
1012	2	1.55e-03	-5.08e-03	-0.11	2.49e-04	7.93e-05	0.0
1012	10	3.43e-03	-3.66e-03	-0.07	1.55e-04	5.06e-05	0.0
1012	24	1.75e-04	-5.68e-03	-0.08	1.74e-04	5.59e-05	0.0
1012	42	4.90e-03	-3.99e-03	-0.07	1.57e-04	5.16e-05	0.0
1012	56	-2.82e-04	-7.19e-03	-0.08	1.87e-04	6.01e-05	0.0
1012	70	1.16e-03	-3.79e-03	-0.08	1.86e-04	5.93e-05	0.0
1012	72	9.92e-04	-3.24e-03	-0.07	1.59e-04	5.08e-05	0.0
1013	2	9.97e-04	-5.17e-03	-0.11	2.59e-04	5.33e-05	0.0
1013	10	3.24e-03	-3.78e-03	-0.08	1.63e-04	4.08e-05	0.0
1013	24	-2.28e-04	-5.78e-03	-0.08	1.84e-04	3.56e-05	0.0
1013	26	1.21e-03	-5.81e-03	-0.08	1.84e-04	3.92e-05	0.0
1013	42	4.79e-03	-4.16e-03	-0.08	1.66e-04	4.57e-05	0.0
1013	56	-7.19e-04	-7.34e-03	-0.08	1.99e-04	3.75e-05	0.0
1013	58	1.57e-03	-7.38e-03	-0.08	1.99e-04	4.32e-05	0.0
1013	70	7.45e-04	-3.86e-03	-0.08	1.93e-04	3.98e-05	0.0
1013	72	6.33e-04	-3.29e-03	-0.08	1.65e-04	3.40e-05	0.0
1014	1	7.25e-04	-3.87e-03	-0.09	1.90e-04	3.29e-05	0.0
1014	2	7.11e-04	-4.63e-03	-0.10	2.27e-04	3.11e-05	0.0
1014	6	3.64e-03	-4.26e-03	-0.08	1.60e-04	5.64e-05	0.0
1014	10	3.80e-03	-3.91e-03	-0.08	1.58e-04	5.66e-05	0.0
1014	26	1.25e-03	-6.01e-03	-0.07	1.65e-04	3.46e-05	0.0
1014	38	5.47e-03	-5.02e-03	-0.08	1.68e-04	7.48e-05	0.0
1014	42	5.72e-03	-4.45e-03	-0.08	1.65e-04	7.51e-05	0.0
1014	58	1.67e-03	-7.80e-03	-0.08	1.77e-04	4.01e-05	0.0
1014	69	5.55e-04	-2.97e-03	-0.07	1.46e-04	2.52e-05	0.0
1014	70	5.46e-04	-3.48e-03	-0.08	1.70e-04	2.40e-05	0.0
1014	71	5.55e-04	-2.97e-03	-0.07	1.46e-04	2.52e-05	0.0
1014	72	5.53e-04	-3.07e-03	-0.07	1.51e-04	2.49e-05	0.0
1015	2	-1.39e-03	-5.30e-03	-0.11	2.64e-04	-7.75e-05	0.0
1015	11	-3.53e-03	-2.71e-03	-0.07	1.54e-04	-5.58e-05	0.0
1015	22	-3.74e-04	-5.92e-03	-0.08	1.88e-04	-5.00e-05	0.0
1015	24	-1.91e-03	-5.97e-03	-0.08	1.88e-04	-5.55e-05	0.0
1015	43	-5.11e-03	-2.41e-03	-0.07	1.50e-04	-6.05e-05	0.0
1015	54	-9.30e-05	-7.51e-03	-0.08	2.04e-04	-5.12e-05	0.0
1015	56	-2.53e-03	-7.58e-03	-0.08	2.03e-04	-6.00e-05	0.0
1015	70	-1.04e-03	-3.96e-03	-0.08	1.97e-04	-5.80e-05	0.0
1015	72	-8.88e-04	-3.37e-03	-0.08	1.68e-04	-4.99e-05	0.0
1016	2	-2.31e-03	-5.06e-03	-0.10	2.47e-04	-1.24e-04	0.0
1016	12	-3.93e-03	-3.62e-03	-0.07	1.53e-04	-7.99e-05	0.0
1016	22	-1.04e-03	-5.78e-03	-0.07	1.75e-04	-8.43e-05	0.0
1016	26	-1.09e-03	-5.80e-03	-0.07	1.75e-04	-8.45e-05	0.0
1016	44	-5.40e-03	-3.93e-03	-0.07	1.54e-04	-8.18e-05	0.0
1016	54	-8.03e-04	-7.37e-03	-0.08	1.88e-04	-8.89e-05	0.0
1016	58	-8.92e-04	-7.40e-03	-0.08	1.88e-04	-8.92e-05	0.0
1016	70	-1.73e-03	-3.78e-03	-0.08	1.85e-04	-9.27e-05	0.0
1016	72	-1.49e-03	-3.23e-03	-0.07	1.58e-04	-7.98e-05	0.0
1017	2	-2.26e-03	-4.38e-03	-0.10	2.16e-04	-1.21e-04	0.0
1017	12	-3.82e-03	-3.17e-03	-0.07	1.33e-04	-7.39e-05	0.0
1017	22	-1.00e-03	-5.28e-03	-0.07	1.51e-04	-8.31e-05	0.0
1017	26	-1.05e-03	-5.30e-03	-0.07	1.50e-04	-8.29e-05	0.0
1017	44	-5.25e-03	-3.45e-03	-0.07	1.33e-04	-7.34e-05	0.0
1017	54	-7.66e-04	-6.81e-03	-0.07	1.62e-04	-8.81e-05	0.0

1017	58	-8.43e-04	-6.84e-03	-0.07	1.61e-04	-8.77e-05	0.0
1017	70	-1.69e-03	-3.27e-03	-0.07	1.61e-04	-9.05e-05	0.0
1017	72	-1.46e-03	-2.80e-03	-0.07	1.38e-04	-7.79e-05	0.0
1018	2	-1.75e-03	-3.81e-03	-0.09	1.89e-04	-9.42e-05	0.0
1018	11	-3.46e-03	-1.75e-03	-0.06	1.11e-04	-5.17e-05	0.0
1018	22	-6.56e-04	-4.89e-03	-0.07	1.31e-04	-6.54e-05	0.0
1018	26	-7.00e-04	-4.91e-03	-0.06	1.31e-04	-6.50e-05	0.0
1018	43	-4.86e-03	-1.41e-03	-0.06	1.08e-04	-4.78e-05	0.0
1018	54	-4.03e-04	-6.40e-03	-0.07	1.40e-04	-6.97e-05	0.0
1018	58	-4.74e-04	-6.42e-03	-0.07	1.40e-04	-6.90e-05	0.0
1018	70	-1.31e-03	-2.84e-03	-0.07	1.41e-04	-7.05e-05	0.0
1018	72	-1.13e-03	-2.44e-03	-0.06	1.21e-04	-6.07e-05	0.0
1019	2	-9.91e-04	-3.44e-03	-0.09	1.72e-04	-5.49e-05	0.0
1019	11	-2.97e-03	-1.71e-03	-0.06	1.02e-04	-2.65e-05	0.0
1019	22	-1.44e-04	-4.60e-03	-0.06	1.19e-04	-3.92e-05	0.0
1019	26	-1.87e-04	-4.66e-03	-0.06	1.19e-04	-3.87e-05	0.0
1019	43	-4.35e-03	-1.47e-03	-0.06	9.95e-05	-2.21e-05	0.0
1019	54	1.34e-04	-6.06e-03	-0.06	1.26e-04	-4.23e-05	0.0
1019	58	6.61e-05	-6.16e-03	-0.06	1.26e-04	-4.14e-05	0.0
1019	70	-7.42e-04	-2.57e-03	-0.06	1.28e-04	-4.11e-05	0.0
1019	72	-6.40e-04	-2.20e-03	-0.06	1.10e-04	-3.54e-05	0.0
1020	2	-1.14e-04	-3.29e-03	-0.08	1.65e-04	-9.67e-06	0.0
1020	11	-2.42e-03	-1.66e-03	-0.06	9.88e-05	1.80e-06	0.0
1020	22	4.48e-04	-4.50e-03	-0.06	1.13e-04	-9.17e-06	0.0
1020	24	-8.88e-04	-4.57e-03	-0.06	1.13e-04	-4.98e-06	0.0
1020	43	-3.80e-03	-1.45e-03	-0.06	9.73e-05	6.39e-06	0.0
1020	54	7.56e-04	-5.96e-03	-0.06	1.20e-04	-1.10e-05	0.0
1020	56	-1.37e-03	-6.08e-03	-0.06	1.20e-04	-4.38e-06	0.0
1020	70	-8.54e-05	-2.46e-03	-0.06	1.23e-04	-7.23e-06	0.0
1020	72	-7.37e-05	-2.11e-03	-0.06	1.06e-04	-6.23e-06	0.0
1021	2	7.82e-04	-3.36e-03	-0.08	1.68e-04	3.66e-05	0.0
1021	10	2.84e-03	-2.38e-03	-0.06	1.05e-04	1.64e-05	0.0
1021	24	-2.85e-04	-4.65e-03	-0.06	1.16e-04	2.70e-05	0.0
1021	42	4.22e-03	-2.57e-03	-0.06	1.05e-04	1.28e-05	0.0
1021	56	-7.38e-04	-6.18e-03	-0.06	1.23e-04	2.95e-05	0.0
1021	70	5.86e-04	-2.51e-03	-0.06	1.25e-04	2.74e-05	0.0
1021	72	5.05e-04	-2.15e-03	-0.06	1.08e-04	2.36e-05	0.0
1022	2	1.60e-03	-3.64e-03	-0.09	1.81e-04	7.92e-05	0.0
1022	10	3.37e-03	-2.52e-03	-0.06	1.12e-04	4.37e-05	0.0
1022	24	2.54e-04	-4.88e-03	-0.06	1.26e-04	5.55e-05	0.0
1022	42	4.77e-03	-2.68e-03	-0.06	1.12e-04	4.06e-05	0.0
1022	56	-1.79e-04	-6.44e-03	-0.07	1.34e-04	5.94e-05	0.0
1022	70	1.20e-03	-2.72e-03	-0.07	1.35e-04	5.93e-05	0.0
1022	72	1.04e-03	-2.33e-03	-0.06	1.16e-04	5.11e-05	0.0
1023	2	2.24e-03	-4.13e-03	-0.09	2.04e-04	1.12e-04	0.0
1023	10	3.80e-03	-2.78e-03	-0.06	1.25e-04	6.61e-05	0.0
1023	24	6.40e-04	-5.27e-03	-0.07	1.42e-04	7.77e-05	0.0
1023	42	5.22e-03	-2.93e-03	-0.06	1.25e-04	6.40e-05	0.0
1023	56	2.04e-04	-6.88e-03	-0.07	1.53e-04	8.25e-05	0.0
1023	70	1.68e-03	-3.08e-03	-0.07	1.52e-04	8.40e-05	0.0
1023	72	1.45e-03	-2.64e-03	-0.07	1.31e-04	7.24e-05	0.0
1024	2	2.50e-03	-4.76e-03	-0.10	2.33e-04	1.26e-04	0.0
1024	10	4.03e-03	-3.16e-03	-0.07	1.43e-04	7.79e-05	0.0
1024	24	7.69e-04	-5.77e-03	-0.07	1.65e-04	8.71e-05	0.0
1024	42	5.49e-03	-3.31e-03	-0.07	1.43e-04	7.76e-05	0.0
1024	56	3.10e-04	-7.46e-03	-0.07	1.77e-04	9.23e-05	0.0
1024	70	1.88e-03	-3.55e-03	-0.08	1.74e-04	9.47e-05	0.0
1024	72	1.62e-03	-3.04e-03	-0.07	1.49e-04	8.17e-05	0.0
1025	2	1.97e-03	-5.00e-03	-0.11	2.50e-04	1.01e-04	0.0
1025	10	3.86e-03	-3.35e-03	-0.07	1.56e-04	6.90e-05	0.0
1025	24	3.89e-04	-5.98e-03	-0.08	1.79e-04	6.76e-05	0.0
1025	42	5.42e-03	-3.52e-03	-0.07	1.58e-04	7.27e-05	0.0
1025	56	-9.90e-05	-7.71e-03	-0.08	1.94e-04	7.04e-05	0.0
1025	70	1.47e-03	-3.73e-03	-0.08	1.87e-04	7.57e-05	0.0
1025	72	1.27e-03	-3.19e-03	-0.07	1.60e-04	6.55e-05	0.0
1026	2	-3.46e-04	-5.41e-03	-0.11	2.70e-04	-2.52e-05	0.0
1026	11	-2.89e-03	-3.10e-03	-0.08	1.61e-04	-2.09e-05	0.0
1026	24	-1.15e-03	-6.31e-03	-0.08	1.92e-04	-2.04e-05	0.0
1026	43	-4.48e-03	-2.98e-03	-0.08	1.59e-04	-2.47e-05	0.0
1026	56	-1.71e-03	-8.09e-03	-0.08	2.08e-04	-2.39e-05	0.0
1026	70	-2.55e-04	-4.04e-03	-0.08	2.01e-04	-1.87e-05	0.0
1026	72	-2.00e-04	-3.46e-03	-0.08	1.73e-04	-1.54e-05	0.0
1027	2	-1.18e-03	-5.34e-03	-0.11	2.61e-04	-6.72e-05	0.0
1027	11	-3.25e-03	-3.05e-03	-0.07	1.56e-04	-3.84e-05	0.0
1027	24	-1.65e-03	-6.24e-03	-0.08	1.83e-04	-4.72e-05	0.0
1027	43	-4.74e-03	-2.92e-03	-0.07	1.53e-04	-3.72e-05	0.0

1027	56	-2.20e-03	-7.98e-03	-0.08	1.96e-04	-5.12e-05	0.0
1027	70	-8.79e-04	-3.99e-03	-0.08	1.95e-04	-5.02e-05	0.0
1027	72	-7.43e-04	-3.42e-03	-0.08	1.68e-04	-4.24e-05	0.0
1028	2	-1.10e-03	-4.88e-03	-0.10	2.40e-04	-6.29e-05	0.0
1028	11	-3.12e-03	-2.82e-03	-0.07	1.44e-04	-3.20e-05	0.0
1028	24	-1.55e-03	-5.89e-03	-0.07	1.67e-04	-4.28e-05	0.0
1028	43	-4.58e-03	-2.71e-03	-0.07	1.42e-04	-2.86e-05	0.0
1028	56	-2.08e-03	-7.58e-03	-0.08	1.77e-04	-4.59e-05	0.0
1028	70	-8.17e-04	-3.65e-03	-0.08	1.79e-04	-4.69e-05	0.0
1028	72	-6.86e-04	-3.14e-03	-0.07	1.55e-04	-3.95e-05	0.0
1029	2	-6.17e-04	-4.56e-03	-0.10	2.25e-04	-3.78e-05	0.0
1029	11	-2.79e-03	-2.69e-03	-0.07	1.37e-04	-1.48e-05	0.0
1029	24	-1.20e-03	-5.67e-03	-0.07	1.56e-04	-2.52e-05	0.0
1029	43	-4.23e-03	-2.61e-03	-0.07	1.36e-04	-1.06e-05	0.0
1029	56	-1.70e-03	-7.34e-03	-0.07	1.66e-04	-2.71e-05	0.0
1029	70	-4.57e-04	-3.41e-03	-0.08	1.68e-04	-2.81e-05	0.0
1029	72	-3.73e-04	-2.94e-03	-0.07	1.45e-04	-2.31e-05	0.0
1030	1	5.62e-05	-3.61e-03	-0.09	1.79e-04	-1.62e-06	0.0
1030	2	1.04e-05	-4.46e-03	-0.10	2.21e-04	-5.06e-06	0.0
1030	10	2.49e-03	-2.86e-03	-0.07	1.38e-04	-5.57e-06	0.0
1030	24	-7.73e-04	-5.62e-03	-0.07	1.53e-04	4.25e-06	0.0
1030	42	3.94e-03	-2.91e-03	-0.07	1.38e-04	-8.14e-06	0.0
1030	56	-1.25e-03	-7.29e-03	-0.07	1.62e-04	7.47e-06	0.0
1030	69	4.35e-05	-2.77e-03	-0.07	1.37e-04	-1.24e-06	0.0
1030	70	1.29e-05	-3.34e-03	-0.08	1.65e-04	-3.53e-06	0.0
1030	71	4.35e-05	-2.77e-03	-0.07	1.37e-04	-1.24e-06	0.0
1030	72	3.74e-05	-2.88e-03	-0.07	1.43e-04	-1.69e-06	0.0
1031	2	5.84e-04	-4.58e-03	-0.10	2.26e-04	2.50e-05	0.0
1031	10	2.91e-03	-2.90e-03	-0.07	1.41e-04	1.56e-05	0.0
1031	24	-3.94e-04	-5.73e-03	-0.07	1.57e-04	2.22e-05	0.0
1031	42	4.39e-03	-2.93e-03	-0.07	1.40e-04	1.44e-05	0.0
1031	56	-8.62e-04	-7.42e-03	-0.07	1.67e-04	2.49e-05	0.0
1031	70	4.43e-04	-3.43e-03	-0.08	1.69e-04	1.90e-05	0.0
1031	72	4.13e-04	-2.97e-03	-0.07	1.47e-04	1.80e-05	0.0
1032	2	8.73e-04	-4.87e-03	-0.10	2.39e-04	4.04e-05	0.0
1032	10	3.21e-03	-3.08e-03	-0.07	1.49e-04	3.07e-05	0.0
1032	24	-2.28e-04	-5.97e-03	-0.07	1.68e-04	3.07e-05	0.0
1032	42	4.75e-03	-3.10e-03	-0.07	1.49e-04	3.25e-05	0.0
1032	56	-7.05e-04	-7.70e-03	-0.08	1.79e-04	3.26e-05	0.0
1032	70	6.60e-04	-3.65e-03	-0.08	1.79e-04	3.06e-05	0.0
1032	72	6.04e-04	-3.16e-03	-0.07	1.55e-04	2.81e-05	0.0
1033	2	4.20e-04	-4.98e-03	-0.11	2.46e-04	1.91e-05	0.0
1033	10	3.18e-03	-3.19e-03	-0.07	1.56e-04	2.79e-05	0.0
1033	24	-6.08e-04	-6.06e-03	-0.08	1.73e-04	1.30e-05	0.0
1033	26	9.30e-04	-6.07e-03	-0.08	1.73e-04	1.94e-05	0.0
1033	42	4.88e-03	-3.24e-03	-0.07	1.58e-04	3.59e-05	0.0
1033	56	-1.14e-03	-7.80e-03	-0.08	1.85e-04	1.22e-05	0.0
1033	58	1.30e-03	-7.81e-03	-0.08	1.84e-04	2.24e-05	0.0
1033	70	3.20e-04	-3.73e-03	-0.08	1.84e-04	1.46e-05	0.0
1033	72	3.10e-04	-3.23e-03	-0.07	1.60e-04	1.44e-05	0.0
1034	2	-1.99e-04	-5.07e-03	-0.11	2.49e-04	-1.76e-05	0.0
1034	11	-3.00e-03	-3.14e-03	-0.07	1.51e-04	-2.24e-05	0.0
1034	24	-1.05e-03	-6.15e-03	-0.08	1.75e-04	-1.04e-05	0.0
1034	43	-4.72e-03	-3.12e-03	-0.07	1.49e-04	-3.08e-05	0.0
1034	56	-1.63e-03	-7.90e-03	-0.08	1.87e-04	-1.17e-05	0.0
1034	70	-1.42e-04	-3.80e-03	-0.08	1.86e-04	-1.29e-05	0.0
1034	72	-8.51e-05	-3.29e-03	-0.07	1.62e-04	-9.15e-06	0.0
1035	2	-7.70e-04	-4.93e-03	-0.10	2.41e-04	-4.61e-05	0.0
1035	11	-3.25e-03	-3.06e-03	-0.07	1.46e-04	-3.58e-05	0.0
1035	22	2.32e-04	-5.79e-03	-0.07	1.70e-04	-2.55e-05	0.0
1035	26	1.28e-04	-6.07e-03	-0.07	1.70e-04	-2.64e-05	0.0
1035	43	-4.91e-03	-3.04e-03	-0.07	1.43e-04	-4.20e-05	0.0
1035	54	6.18e-04	-7.38e-03	-0.08	1.81e-04	-2.55e-05	0.0
1035	58	4.51e-04	-7.82e-03	-0.08	1.81e-04	-2.69e-05	0.0
1035	70	-5.70e-04	-3.69e-03	-0.08	1.81e-04	-3.41e-05	0.0
1035	72	-4.49e-04	-3.21e-03	-0.07	1.57e-04	-2.72e-05	0.0
1036	2	-6.06e-04	-4.61e-03	-0.10	2.27e-04	-3.74e-05	0.0
1036	11	-3.13e-03	-2.89e-03	-0.07	1.37e-04	-2.93e-05	0.0
1036	22	3.67e-04	-5.57e-03	-0.07	1.60e-04	-1.89e-05	0.0
1036	26	2.63e-04	-5.86e-03	-0.07	1.60e-04	-1.97e-05	0.0
1036	43	-4.79e-03	-2.88e-03	-0.07	1.34e-04	-3.52e-05	0.0
1036	54	7.63e-04	-7.13e-03	-0.08	1.70e-04	-1.87e-05	0.0
1036	58	5.98e-04	-7.59e-03	-0.08	1.70e-04	-1.99e-05	0.0
1036	70	-4.45e-04	-3.46e-03	-0.08	1.70e-04	-2.75e-05	0.0
1036	72	-3.30e-04	-3.02e-03	-0.07	1.49e-04	-2.09e-05	0.0
1037	2	-1.44e-04	-4.44e-03	-0.10	2.19e-04	-1.32e-05	0.0

1037	4	-1.49e-04	-3.58e-03	-0.08	1.76e-04	-1.24e-05	0.0
1037	10	2.90e-03	-2.83e-03	-0.07	1.46e-04	1.20e-05	0.0
1037	22	7.20e-04	-5.47e-03	-0.07	1.56e-04	3.39e-06	0.0
1037	26	6.11e-04	-5.77e-03	-0.07	1.55e-04	2.40e-06	0.0
1037	42	4.60e-03	-2.83e-03	-0.07	1.50e-04	2.11e-05	0.0
1037	54	1.14e-03	-7.02e-03	-0.07	1.65e-04	7.21e-06	0.0
1037	58	9.71e-04	-7.51e-03	-0.07	1.65e-04	5.65e-06	0.0
1037	70	-9.70e-05	-3.33e-03	-0.08	1.64e-04	-9.31e-06	0.0
1037	72	-1.64e-05	-2.93e-03	-0.07	1.44e-04	-4.55e-06	0.0
1038	1	4.40e-04	-3.72e-03	-0.09	1.83e-04	1.83e-05	0.0
1038	2	3.66e-04	-4.47e-03	-0.10	2.20e-04	1.35e-05	0.0
1038	10	3.35e-03	-2.87e-03	-0.07	1.49e-04	3.51e-05	0.0
1038	22	1.11e-03	-5.52e-03	-0.07	1.58e-04	2.29e-05	0.0
1038	26	9.91e-04	-5.85e-03	-0.07	1.58e-04	2.14e-05	0.0
1038	42	5.12e-03	-2.86e-03	-0.07	1.54e-04	4.75e-05	0.0
1038	54	1.57e-03	-7.09e-03	-0.08	1.68e-04	2.80e-05	0.0
1038	58	1.38e-03	-7.61e-03	-0.08	1.68e-04	2.57e-05	0.0
1038	69	3.37e-04	-2.86e-03	-0.07	1.41e-04	1.40e-05	0.0
1038	70	2.87e-04	-3.36e-03	-0.08	1.65e-04	1.08e-05	0.0
1038	71	3.37e-04	-2.86e-03	-0.07	1.41e-04	1.40e-05	0.0
1038	72	3.27e-04	-2.96e-03	-0.07	1.45e-04	1.34e-05	0.0
1039	2	-2.38e-03	-5.42e-03	-0.10	2.57e-04	-1.22e-04	0.0
1039	8	-4.62e-03	-3.33e-03	-0.08	1.74e-04	-1.11e-04	0.0
1039	12	-4.46e-03	-3.95e-03	-0.08	1.77e-04	-1.12e-04	0.0
1039	36	-2.11e-03	-6.97e-03	-0.08	1.87e-04	-9.08e-05	0.0
1039	40	-6.39e-03	-3.28e-03	-0.08	1.80e-04	-1.29e-04	0.0
1039	44	-6.14e-03	-4.28e-03	-0.08	1.86e-04	-1.30e-04	0.0
1039	68	-2.40e-03	-9.07e-03	-0.08	2.01e-04	-9.62e-05	0.0
1039	70	-1.79e-03	-4.06e-03	-0.08	1.93e-04	-9.18e-05	0.0
1039	72	-1.64e-03	-3.54e-03	-0.07	1.69e-04	-8.36e-05	0.0
1040	2	-2.33e-03	5.25e-03	-0.10	-2.52e-04	-1.21e-04	0.0
1040	15	-4.56e-03	3.21e-03	-0.08	-1.70e-04	-1.10e-04	0.0
1040	19	-4.40e-03	3.82e-03	-0.08	-1.73e-04	-1.10e-04	0.0
1040	31	-2.06e-03	6.84e-03	-0.08	-1.83e-04	-8.95e-05	0.0
1040	47	-6.33e-03	3.14e-03	-0.08	-1.76e-04	-1.27e-04	0.0
1040	51	-6.07e-03	4.13e-03	-0.08	-1.81e-04	-1.28e-04	0.0
1040	63	-2.35e-03	8.92e-03	-0.08	-1.96e-04	-9.47e-05	0.0
1040	70	-1.76e-03	3.94e-03	-0.08	-1.89e-04	-9.09e-05	0.0
1040	72	-1.61e-03	3.43e-03	-0.07	-1.65e-04	-8.28e-05	0.0
1041	2	-2.38e-03	-5.48e-03	-0.10	2.61e-04	-1.16e-04	0.0
1041	8	-4.56e-03	-4.28e-03	-0.07	1.79e-04	-1.06e-04	0.0
1041	12	-4.42e-03	-4.89e-03	-0.07	1.82e-04	-1.06e-04	0.0
1041	36	-2.14e-03	-7.00e-03	-0.07	1.89e-04	-8.59e-05	0.0
1041	40	-6.32e-03	-4.75e-03	-0.07	1.87e-04	-1.22e-04	0.0
1041	44	-6.09e-03	-5.74e-03	-0.08	1.92e-04	-1.23e-04	0.0
1041	68	-2.46e-03	-9.09e-03	-0.07	2.04e-04	-9.10e-05	0.0
1041	70	-1.80e-03	-4.11e-03	-0.07	1.96e-04	-8.73e-05	0.0
1041	72	-1.63e-03	-3.59e-03	-0.07	1.72e-04	-7.93e-05	0.0
1042	2	-1.84e-03	-4.77e-03	-0.08	2.32e-04	-9.08e-05	0.0
1042	11	-4.10e-03	-2.48e-03	-0.06	1.57e-04	-8.44e-05	0.0
1042	12	-3.98e-03	-4.38e-03	-0.06	1.65e-04	-8.49e-05	0.0
1042	36	-1.79e-03	-6.40e-03	-0.06	1.65e-04	-6.72e-05	0.0
1042	43	-5.79e-03	-2.14e-03	-0.06	1.62e-04	-9.78e-05	0.0
1042	44	-5.59e-03	-5.17e-03	-0.07	1.75e-04	-9.86e-05	0.0
1042	68	-2.10e-03	-8.38e-03	-0.06	1.74e-04	-7.05e-05	0.0
1042	70	-1.39e-03	-3.58e-03	-0.06	1.74e-04	-6.86e-05	0.0
1042	72	-1.28e-03	-3.15e-03	-0.06	1.54e-04	-6.30e-05	0.0
1043	2	-1.39e-03	-3.91e-03	-0.07	1.91e-04	-6.94e-05	0.0
1043	11	-3.65e-03	-1.97e-03	-0.05	1.31e-04	-6.52e-05	0.0
1043	12	-3.54e-03	-3.81e-03	-0.06	1.37e-04	-6.47e-05	0.0
1043	36	-1.50e-03	-5.75e-03	-0.05	1.33e-04	-5.05e-05	0.0
1043	43	-5.25e-03	-1.66e-03	-0.06	1.37e-04	-7.56e-05	0.0
1043	44	-5.07e-03	-4.59e-03	-0.06	1.45e-04	-7.48e-05	0.0
1043	68	-1.82e-03	-7.67e-03	-0.05	1.40e-04	-5.22e-05	0.0
1043	70	-1.05e-03	-2.94e-03	-0.05	1.44e-04	-5.24e-05	0.0
1043	72	-9.72e-04	-2.59e-03	-0.05	1.27e-04	-4.85e-05	0.0
1044	2	-1.05e-03	-2.92e-03	-0.06	1.43e-04	-5.27e-05	0.0
1044	11	-3.32e-03	-5.64e-04	-0.05	9.92e-05	-5.03e-05	0.0
1044	12	-3.23e-03	-2.36e-03	-0.05	1.02e-04	-4.98e-05	0.0
1044	36	-1.31e-03	-5.04e-03	-0.05	9.79e-05	-3.87e-05	0.0
1044	43	-4.84e-03	2.05e-04	-0.05	1.04e-04	-5.84e-05	0.0
1044	44	-4.71e-03	-2.66e-03	-0.05	1.08e-04	-5.76e-05	0.0
1044	68	-1.65e-03	-6.90e-03	-0.05	1.02e-04	-4.00e-05	0.0
1044	70	-7.95e-04	-2.19e-03	-0.05	1.07e-04	-3.98e-05	0.0
1044	72	-7.43e-04	-1.93e-03	-0.05	9.46e-05	-3.72e-05	0.0
1045	2	-8.25e-04	-1.85e-03	-0.06	9.06e-05	-4.13e-05	0.0

1045	11	-3.08e-03	1.25e-04	-0.04	6.41e-05	-4.01e-05	0.0
1045	12	-3.02e-03	-1.65e-03	-0.04	6.57e-05	-3.97e-05	0.0
1045	36	-1.21e-03	-4.30e-03	-0.04	6.16e-05	-3.10e-05	0.0
1045	43	-4.55e-03	8.98e-04	-0.05	6.77e-05	-4.67e-05	0.0
1045	44	-4.46e-03	-1.92e-03	-0.05	7.01e-05	-4.60e-05	0.0
1045	68	-1.58e-03	-6.13e-03	-0.04	6.36e-05	-3.22e-05	0.0
1045	70	-6.24e-04	-1.39e-03	-0.04	6.80e-05	-3.12e-05	0.0
1045	72	-5.89e-04	-1.23e-03	-0.04	6.02e-05	-2.94e-05	0.0
1046	2	-7.05e-04	-7.66e-04	-0.05	3.73e-05	-3.53e-05	0.0
1046	11	-2.93e-03	8.42e-04	-0.04	2.79e-05	-3.44e-05	0.0
1046	12	-2.91e-03	-9.13e-04	-0.04	2.87e-05	-3.42e-05	0.0
1046	36	-1.18e-03	-3.57e-03	-0.04	2.59e-05	-2.73e-05	0.0
1046	43	-4.36e-03	1.63e-03	-0.04	3.01e-05	-4.00e-05	0.0
1046	44	-4.33e-03	-1.16e-03	-0.04	3.14e-05	-3.97e-05	0.0
1046	68	-1.58e-03	-5.38e-03	-0.04	2.70e-05	-2.86e-05	0.0
1046	70	-5.33e-04	-5.76e-04	-0.04	2.81e-05	-2.67e-05	0.0
1046	72	-5.07e-04	-5.09e-04	-0.04	2.48e-05	-2.53e-05	0.0
1047	2	-6.87e-04	3.26e-04	-0.05	-1.62e-05	-3.44e-05	0.0
1047	15	-2.90e-03	7.15e-05	-0.04	-1.41e-05	-3.33e-05	0.0
1047	20	-2.90e-03	-1.13e-03	-0.04	-1.34e-05	-3.34e-05	0.0
1047	31	-1.19e-03	3.28e-03	-0.04	-1.09e-05	-2.69e-05	0.0
1047	47	-4.33e-03	-1.34e-05	-0.04	-1.62e-05	-3.86e-05	0.0
1047	52	-4.33e-03	-1.92e-03	-0.04	-1.51e-05	-3.87e-05	0.0
1047	63	-1.60e-03	5.08e-03	-0.04	-1.13e-05	-2.83e-05	0.0
1047	70	-5.19e-04	2.44e-04	-0.04	-1.22e-05	-2.60e-05	0.0
1047	72	-4.94e-04	2.16e-04	-0.04	-1.08e-05	-2.47e-05	0.0
1048	2	-7.70e-04	1.41e-03	-0.05	-6.96e-05	-3.85e-05	0.0
1048	15	-3.01e-03	8.02e-04	-0.04	-5.09e-05	-3.73e-05	0.0
1048	20	-3.02e-03	-4.08e-04	-0.04	-4.99e-05	-3.75e-05	0.0
1048	31	-1.19e-03	4.00e-03	-0.04	-4.74e-05	-2.93e-05	0.0
1048	47	-4.47e-03	7.36e-04	-0.04	-5.45e-05	-4.33e-05	0.0
1048	52	-4.48e-03	-1.18e-03	-0.04	-5.29e-05	-4.37e-05	0.0
1048	63	-1.57e-03	5.83e-03	-0.04	-4.89e-05	-3.05e-05	0.0
1048	70	-5.82e-04	1.06e-03	-0.04	-5.23e-05	-2.91e-05	0.0
1048	72	-5.51e-04	9.39e-04	-0.04	-4.63e-05	-2.75e-05	0.0
1049	2	-9.59e-04	2.49e-03	-0.06	-1.22e-04	-4.79e-05	0.0
1049	19	-3.15e-03	2.08e-03	-0.05	-8.78e-05	-4.56e-05	0.0
1049	20	-3.22e-03	2.93e-04	-0.05	-8.55e-05	-4.60e-05	0.0
1049	31	-1.26e-03	4.74e-03	-0.05	-8.36e-05	-3.55e-05	0.0
1049	51	-4.62e-03	2.36e-03	-0.05	-9.33e-05	-5.29e-05	0.0
1049	52	-4.73e-03	-4.75e-04	-0.05	-8.96e-05	-5.36e-05	0.0
1049	63	-1.62e-03	6.59e-03	-0.05	-8.66e-05	-3.68e-05	0.0
1049	70	-7.25e-04	1.87e-03	-0.05	-9.18e-05	-3.62e-05	0.0
1049	72	-6.80e-04	1.65e-03	-0.04	-8.12e-05	-3.39e-05	0.0
1050	2	-1.26e-03	3.52e-03	-0.07	-1.72e-04	-6.28e-05	0.0
1050	19	-3.43e-03	3.55e-03	-0.05	-1.23e-04	-5.88e-05	0.0
1050	20	-3.53e-03	1.73e-03	-0.05	-1.19e-04	-5.93e-05	0.0
1050	31	-1.43e-03	5.47e-03	-0.05	-1.20e-04	-4.59e-05	0.0
1050	51	-4.94e-03	4.32e-03	-0.05	-1.30e-04	-6.80e-05	0.0
1050	52	-5.10e-03	1.42e-03	-0.05	-1.24e-04	-6.88e-05	0.0
1050	63	-1.76e-03	7.36e-03	-0.05	-1.25e-04	-4.74e-05	0.0
1050	70	-9.54e-04	2.64e-03	-0.05	-1.30e-04	-4.74e-05	0.0
1050	72	-8.86e-04	2.33e-03	-0.05	-1.14e-04	-4.40e-05	0.0
1051	2	-1.70e-03	4.44e-03	-0.08	-2.17e-04	-8.33e-05	0.0
1051	19	-3.83e-03	4.16e-03	-0.06	-1.54e-04	-7.75e-05	0.0
1051	20	-3.95e-03	2.28e-03	-0.06	-1.47e-04	-7.71e-05	0.0
1051	31	-1.69e-03	6.14e-03	-0.06	-1.53e-04	-6.17e-05	0.0
1051	51	-5.42e-03	4.93e-03	-0.06	-1.63e-04	-8.99e-05	0.0
1051	52	-5.61e-03	1.95e-03	-0.06	-1.52e-04	-8.92e-05	0.0
1051	63	-2.01e-03	8.10e-03	-0.06	-1.61e-04	-6.47e-05	0.0
1051	70	-1.28e-03	3.33e-03	-0.06	-1.63e-04	-6.29e-05	0.0
1051	72	-1.18e-03	2.93e-03	-0.06	-1.44e-04	-5.78e-05	0.0
1052	2	-2.32e-03	5.27e-03	-0.09	-2.53e-04	-1.11e-04	0.0
1052	15	-4.46e-03	4.14e-03	-0.07	-1.74e-04	-1.00e-04	0.0
1052	19	-4.45e-03	4.74e-03	-0.07	-1.77e-04	-1.01e-04	0.0
1052	31	-2.51e-03	6.82e-03	-0.07	-1.82e-04	-8.25e-05	0.0
1052	47	-6.18e-03	4.60e-03	-0.07	-1.82e-04	-1.16e-04	0.0
1052	51	-6.17e-03	5.57e-03	-0.07	-1.87e-04	-1.16e-04	0.0
1052	63	-3.07e-03	8.87e-03	-0.07	-1.95e-04	-8.73e-05	0.0
1052	70	-1.75e-03	3.95e-03	-0.07	-1.90e-04	-8.39e-05	0.0
1052	72	-1.59e-03	3.46e-03	-0.06	-1.67e-04	-7.62e-05	0.0
1053	2	-2.20e-03	5.15e-03	-0.12	-2.45e-04	-1.23e-04	0.0
1053	19	-4.43e-03	3.75e-03	-0.09	-1.69e-04	-1.15e-04	0.0
1053	20	-4.62e-03	1.73e-03	-0.08	-1.56e-04	-1.13e-04	0.0
1053	31	-1.95e-03	6.78e-03	-0.08	-1.80e-04	-9.35e-05	0.0
1053	51	-6.15e-03	4.05e-03	-0.09	-1.78e-04	-1.34e-04	0.0

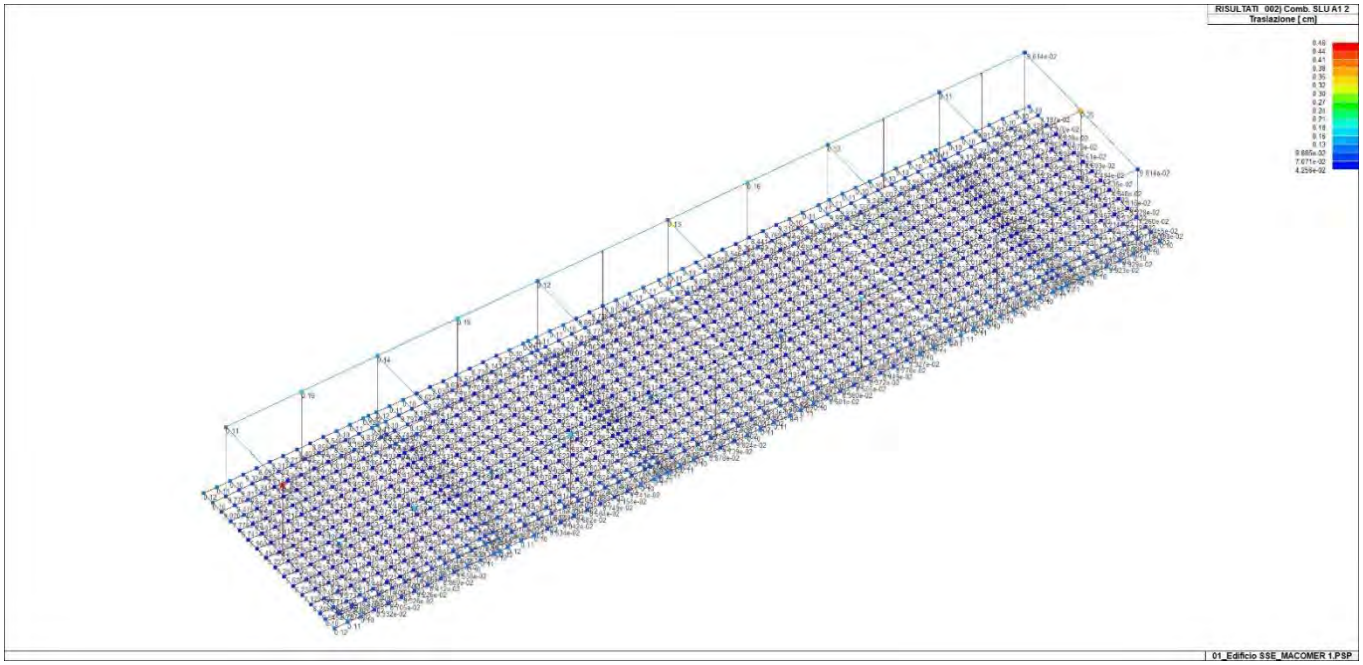
1053	52	-6.45e-03	8.49e-04	-0.09	-1.56e-04	-1.30e-04	0.0
1053	63	-2.22e-03	8.87e-03	-0.09	-1.95e-04	-9.98e-05	0.0
1053	70	-1.67e-03	3.86e-03	-0.09	-1.84e-04	-9.31e-05	0.0
1053	72	-1.54e-03	3.36e-03	-0.08	-1.61e-04	-8.48e-05	0.0
1054	2	-2.18e-03	-5.30e-03	-0.12	2.49e-04	-1.24e-04	0.0
1054	11	-4.60e-03	-1.85e-03	-0.08	1.58e-04	-1.14e-04	0.0
1054	12	-4.41e-03	-3.87e-03	-0.09	1.72e-04	-1.17e-04	0.0
1054	36	-1.94e-03	-6.90e-03	-0.09	1.83e-04	-9.42e-05	0.0
1054	43	-6.44e-03	-9.68e-04	-0.09	1.59e-04	-1.32e-04	0.0
1054	44	-6.14e-03	-4.19e-03	-0.09	1.81e-04	-1.36e-04	0.0
1054	68	-2.21e-03	-9.00e-03	-0.09	1.98e-04	-1.01e-04	0.0
1054	70	-1.65e-03	-3.98e-03	-0.09	1.87e-04	-9.35e-05	0.0
1054	72	-1.52e-03	-3.47e-03	-0.08	1.63e-04	-8.52e-05	0.0
1055	1	5.35e-04	-4.23e-03	-0.09	2.05e-04	2.26e-05	0.0
1055	2	5.00e-04	-5.05e-03	-0.09	2.44e-04	1.97e-05	0.0
1055	6	3.50e-03	-4.63e-03	-0.07	1.75e-04	5.07e-05	0.0
1055	10	3.64e-03	-4.29e-03	-0.07	1.73e-04	5.08e-05	0.0
1055	26	1.11e-03	-6.38e-03	-0.07	1.79e-04	2.55e-05	0.0
1055	38	5.32e-03	-5.45e-03	-0.08	1.85e-04	7.04e-05	0.0
1055	42	5.55e-03	-4.89e-03	-0.08	1.83e-04	7.07e-05	0.0
1055	58	1.53e-03	-8.22e-03	-0.07	1.92e-04	3.03e-05	0.0
1055	69	4.09e-04	-3.24e-03	-0.07	1.57e-04	1.72e-05	0.0
1055	70	3.86e-04	-3.79e-03	-0.07	1.83e-04	1.53e-05	0.0
1055	71	4.09e-04	-3.24e-03	-0.07	1.57e-04	1.72e-05	0.0
1055	72	4.05e-04	-3.35e-03	-0.07	1.62e-04	1.68e-05	0.0
1056	1	5.35e-04	4.13e-03	-0.09	-2.02e-04	2.23e-05	0.0
1056	2	5.02e-04	4.93e-03	-0.09	-2.41e-04	1.94e-05	0.0
1056	13	3.47e-03	3.51e-03	-0.07	-1.72e-04	4.99e-05	0.0
1056	17	3.61e-03	3.16e-03	-0.07	-1.70e-04	4.99e-05	0.0
1056	21	1.09e-03	6.28e-03	-0.07	-1.76e-04	2.51e-05	0.0
1056	45	5.27e-03	3.71e-03	-0.08	-1.82e-04	6.92e-05	0.0
1056	49	5.50e-03	3.15e-03	-0.08	-1.79e-04	6.93e-05	0.0
1056	53	1.50e-03	8.11e-03	-0.07	-1.89e-04	2.97e-05	0.0
1056	69	4.09e-04	3.17e-03	-0.07	-1.55e-04	1.70e-05	0.0
1056	70	3.87e-04	3.70e-03	-0.07	-1.81e-04	1.51e-05	0.0
1056	71	4.09e-04	3.17e-03	-0.07	-1.55e-04	1.70e-05	0.0
1056	72	4.05e-04	3.27e-03	-0.07	-1.60e-04	1.66e-05	0.0
1057	1	5.46e-04	-4.25e-03	-0.08	2.06e-04	2.02e-05	0.0
1057	2	5.28e-04	-5.06e-03	-0.08	2.45e-04	1.74e-05	0.0
1057	6	3.47e-03	-4.60e-03	-0.07	1.78e-04	4.74e-05	0.0
1057	10	3.59e-03	-4.26e-03	-0.07	1.76e-04	4.76e-05	0.0
1057	26	1.14e-03	-6.39e-03	-0.06	1.80e-04	2.33e-05	0.0
1057	38	5.27e-03	-5.39e-03	-0.07	1.90e-04	6.63e-05	0.0
1057	42	5.47e-03	-4.83e-03	-0.07	1.87e-04	6.66e-05	0.0
1057	58	1.57e-03	-8.22e-03	-0.07	1.92e-04	2.79e-05	0.0
1057	69	4.18e-04	-3.26e-03	-0.06	1.58e-04	1.54e-05	0.0
1057	70	4.06e-04	-3.81e-03	-0.06	1.84e-04	1.36e-05	0.0
1057	71	4.18e-04	-3.26e-03	-0.06	1.58e-04	1.54e-05	0.0
1057	72	4.15e-04	-3.37e-03	-0.06	1.63e-04	1.51e-05	0.0
1058	1	2.95e-04	-3.75e-03	-0.07	1.84e-04	9.13e-06	0.0
1058	2	2.31e-04	-4.44e-03	-0.07	2.18e-04	4.43e-06	0.0
1058	6	3.16e-03	-4.14e-03	-0.06	1.62e-04	3.33e-05	0.0
1058	10	3.27e-03	-3.80e-03	-0.06	1.61e-04	3.34e-05	0.0
1058	26	9.20e-04	-5.87e-03	-0.06	1.57e-04	1.18e-05	0.0
1058	38	4.89e-03	-4.87e-03	-0.06	1.75e-04	4.90e-05	0.0
1058	42	5.07e-03	-4.34e-03	-0.06	1.73e-04	4.90e-05	0.0
1058	58	1.33e-03	-7.62e-03	-0.06	1.67e-04	1.46e-05	0.0
1058	69	2.24e-04	-2.88e-03	-0.05	1.42e-04	6.88e-06	0.0
1058	70	1.81e-04	-3.34e-03	-0.06	1.64e-04	3.75e-06	0.0
1058	71	2.24e-04	-2.88e-03	-0.05	1.42e-04	6.88e-06	0.0
1058	72	2.16e-04	-2.97e-03	-0.05	1.46e-04	6.25e-06	0.0
1059	1	9.86e-05	-3.10e-03	-0.06	1.53e-04	0.0	0.0
1059	2	9.78e-06	-3.66e-03	-0.06	1.80e-04	-5.70e-06	0.0
1059	6	2.85e-03	-3.61e-03	-0.05	1.35e-04	2.01e-05	0.0
1059	10	2.94e-03	-3.29e-03	-0.05	1.34e-04	2.02e-05	0.0
1059	26	7.52e-04	-5.27e-03	-0.05	1.28e-04	3.27e-06	0.0
1059	38	4.48e-03	-4.34e-03	-0.05	1.46e-04	3.21e-05	0.0
1059	42	4.63e-03	-3.81e-03	-0.05	1.45e-04	3.23e-05	0.0
1059	58	1.15e-03	-6.97e-03	-0.05	1.35e-04	5.29e-06	0.0
1059	69	7.28e-05	-2.38e-03	-0.05	1.17e-04	0.0	0.0
1059	70	1.36e-05	-2.75e-03	-0.05	1.35e-04	-3.96e-06	0.0
1059	71	7.28e-05	-2.38e-03	-0.05	1.17e-04	0.0	0.0
1059	72	6.10e-05	-2.45e-03	-0.05	1.21e-04	0.0	0.0
1060	2	-1.45e-04	-2.74e-03	-0.05	1.35e-04	-1.31e-05	0.0
1060	6	2.63e-03	-3.02e-03	-0.04	1.02e-04	1.07e-05	0.0
1060	11	-2.77e-03	-8.64e-04	-0.04	7.41e-05	-2.16e-05	0.0

1060	26	6.49e-04	-4.60e-03	-0.04	9.48e-05	-2.59e-06	0.0
1060	38	4.20e-03	-3.74e-03	-0.05	1.10e-04	2.02e-05	0.0
1060	43	-4.38e-03	-3.31e-04	-0.04	6.61e-05	-3.11e-05	0.0
1060	58	1.05e-03	-6.26e-03	-0.04	9.89e-05	0.0	0.0
1060	70	-1.04e-04	-2.06e-03	-0.04	1.01e-04	-9.59e-06	0.0
1060	72	-4.95e-05	-1.84e-03	-0.04	9.05e-05	-6.22e-06	0.0
1061	1	-1.32e-04	-1.48e-03	-0.05	7.29e-05	-1.11e-05	0.0
1061	2	-2.42e-04	-1.75e-03	-0.05	8.58e-05	-1.78e-05	0.0
1061	6	2.48e-03	-1.43e-03	-0.04	6.62e-05	4.49e-06	0.0
1061	11	-2.73e-03	-1.16e-03	-0.03	4.61e-05	-2.20e-05	0.0
1061	26	5.98e-04	-3.90e-03	-0.04	6.00e-05	-6.08e-06	0.0
1061	38	4.00e-03	-1.60e-03	-0.04	7.23e-05	1.23e-05	0.0
1061	43	-4.28e-03	-1.18e-03	-0.03	4.02e-05	-2.99e-05	0.0
1061	58	1.01e-03	-5.53e-03	-0.04	6.23e-05	-4.51e-06	0.0
1061	69	-1.05e-04	-1.14e-03	-0.04	5.60e-05	-8.74e-06	0.0
1061	70	-1.79e-04	-1.31e-03	-0.04	6.45e-05	-1.32e-05	0.0
1061	71	-1.05e-04	-1.14e-03	-0.04	5.60e-05	-8.74e-06	0.0
1061	72	-1.20e-04	-1.17e-03	-0.04	5.77e-05	-9.62e-06	0.0
1062	1	-1.77e-04	-6.19e-04	-0.05	3.02e-05	-1.34e-05	0.0
1062	2	-2.91e-04	-7.29e-04	-0.05	3.55e-05	-2.01e-05	0.0
1062	6	2.39e-03	-7.19e-04	-0.04	2.97e-05	1.07e-06	0.0
1062	11	-2.69e-03	-5.42e-04	-0.03	1.68e-05	-2.20e-05	0.0
1062	26	5.90e-04	-3.20e-03	-0.04	2.56e-05	-7.55e-06	0.0
1062	38	3.88e-03	-8.63e-04	-0.04	3.35e-05	7.87e-06	0.0
1062	43	-4.19e-03	-5.86e-04	-0.03	1.31e-05	-2.88e-05	0.0
1062	58	1.02e-03	-4.81e-03	-0.04	2.70e-05	-5.82e-06	0.0
1062	69	-1.40e-04	-4.75e-04	-0.04	2.32e-05	-1.05e-05	0.0
1062	70	-2.16e-04	-5.48e-04	-0.03	2.67e-05	-1.50e-05	0.0
1062	71	-1.40e-04	-4.75e-04	-0.04	2.32e-05	-1.05e-05	0.0
1062	72	-1.55e-04	-4.90e-04	-0.04	2.39e-05	-1.14e-05	0.0
1063	1	-1.83e-04	2.54e-04	-0.05	-1.30e-05	-1.37e-05	0.0
1063	2	-2.97e-04	2.98e-04	-0.04	-1.53e-05	-2.05e-05	0.0
1063	17	2.39e-03	1.19e-04	-0.04	-1.51e-05	0.0	0.0
1063	20	-2.67e-03	2.70e-04	-0.03	-4.97e-06	-2.19e-05	0.0
1063	21	5.98e-04	2.91e-03	-0.04	-1.05e-05	-7.64e-06	0.0
1063	49	3.88e-03	6.93e-05	-0.04	-1.80e-05	7.11e-06	0.0
1063	52	-4.17e-03	3.20e-04	-0.03	-2.00e-06	-2.85e-05	0.0
1063	53	1.04e-03	4.51e-03	-0.04	-1.08e-05	-5.82e-06	0.0
1063	69	-1.44e-04	1.95e-04	-0.03	-1.00e-05	-1.07e-05	0.0
1063	70	-2.20e-04	2.24e-04	-0.03	-1.15e-05	-1.52e-05	0.0
1063	71	-1.44e-04	1.95e-04	-0.03	-1.00e-05	-1.07e-05	0.0
1063	72	-1.59e-04	2.01e-04	-0.03	-1.03e-05	-1.16e-05	0.0
1064	1	-1.50e-04	1.12e-03	-0.05	-5.60e-05	-1.22e-05	0.0
1064	2	-2.61e-04	1.32e-03	-0.05	-6.59e-05	-1.89e-05	0.0
1064	13	2.45e-03	1.14e-03	-0.04	-5.17e-05	3.00e-06	0.0
1064	20	-2.72e-03	8.93e-04	-0.03	-3.46e-05	-2.21e-05	0.0
1064	21	5.94e-04	3.61e-03	-0.04	-4.62e-05	-6.81e-06	0.0
1064	45	3.96e-03	1.31e-03	-0.04	-5.69e-05	1.04e-05	0.0
1064	52	-4.25e-03	9.16e-04	-0.03	-2.96e-05	-2.95e-05	0.0
1064	53	1.02e-03	5.23e-03	-0.04	-4.80e-05	-5.20e-06	0.0
1064	69	-1.19e-04	8.62e-04	-0.04	-4.30e-05	-9.53e-06	0.0
1064	70	-1.93e-04	9.94e-04	-0.04	-4.96e-05	-1.40e-05	0.0
1064	71	-1.19e-04	8.62e-04	-0.04	-4.30e-05	-9.53e-06	0.0
1064	72	-1.33e-04	8.88e-04	-0.04	-4.43e-05	-1.04e-05	0.0
1065	2	-1.78e-04	2.32e-03	-0.05	-1.15e-04	-1.50e-05	0.0
1065	13	2.58e-03	2.75e-03	-0.04	-8.79e-05	8.17e-06	0.0
1065	20	-2.75e-03	5.97e-04	-0.04	-6.32e-05	-2.18e-05	0.0
1065	21	6.32e-04	4.31e-03	-0.04	-8.10e-05	-4.06e-06	0.0
1065	45	4.13e-03	3.47e-03	-0.04	-9.53e-05	1.70e-05	0.0
1065	52	-4.34e-03	6.37e-05	-0.03	-5.61e-05	-3.07e-05	0.0
1065	53	1.04e-03	5.96e-03	-0.04	-8.43e-05	-2.46e-06	0.0
1065	70	-1.30e-04	1.75e-03	-0.04	-8.69e-05	-1.11e-05	0.0
1065	72	-7.40e-05	1.56e-03	-0.04	-7.76e-05	-7.63e-06	0.0
1066	2	-3.85e-05	3.28e-03	-0.06	-1.62e-04	-8.53e-06	0.0
1066	4	-5.80e-05	2.62e-03	-0.05	-1.30e-04	-8.30e-06	0.0
1066	13	2.77e-03	3.36e-03	-0.05	-1.22e-04	1.64e-05	0.0
1066	17	2.86e-03	3.04e-03	-0.05	-1.22e-04	1.66e-05	0.0
1066	21	7.19e-04	5.00e-03	-0.05	-1.15e-04	0.0	0.0
1066	45	4.38e-03	4.08e-03	-0.05	-1.32e-04	2.74e-05	0.0
1066	49	4.52e-03	3.56e-03	-0.05	-1.31e-04	2.76e-05	0.0
1066	53	1.12e-03	6.68e-03	-0.05	-1.21e-04	2.85e-06	0.0
1066	69	3.78e-05	2.13e-03	-0.04	-1.06e-04	-2.18e-06	0.0
1066	70	-2.34e-05	2.46e-03	-0.04	-1.22e-04	-6.12e-06	0.0
1066	71	3.78e-05	2.13e-03	-0.04	-1.06e-04	-2.18e-06	0.0
1066	72	2.55e-05	2.20e-03	-0.04	-1.09e-04	-2.97e-06	0.0
1067	1	2.45e-04	3.49e-03	-0.07	-1.73e-04	6.09e-06	0.0

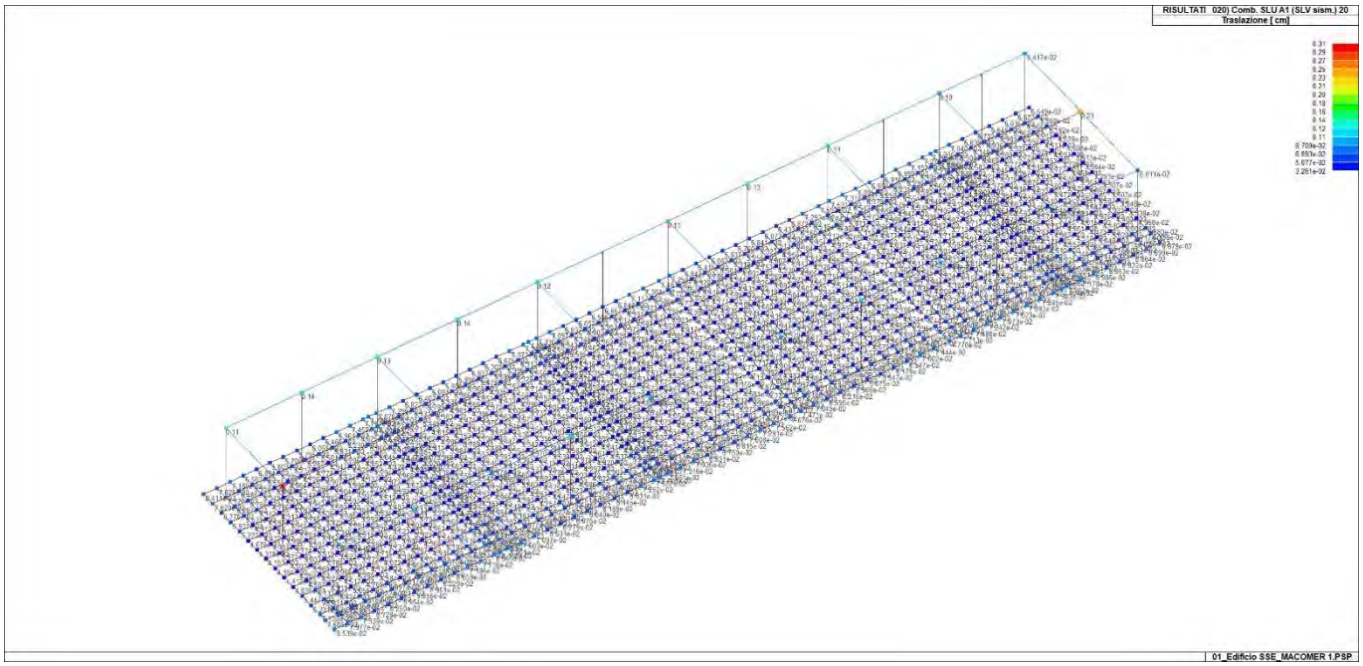
1067	2	1.77e-04	4.12e-03	-0.07	-2.04e-04	1.13e-06	0.0
1067	13	3.06e-03	3.92e-03	-0.06	-1.52e-04	2.85e-05	0.0
1067	17	3.17e-03	3.59e-03	-0.06	-1.51e-04	2.86e-05	0.0
1067	21	8.76e-04	5.63e-03	-0.05	-1.46e-04	8.84e-06	0.0
1067	45	4.76e-03	4.64e-03	-0.06	-1.64e-04	4.27e-05	0.0
1067	49	4.92e-03	4.11e-03	-0.06	-1.62e-04	4.29e-05	0.0
1067	53	1.29e-03	7.36e-03	-0.05	-1.54e-04	1.14e-05	0.0
1067	69	1.86e-04	2.68e-03	-0.05	-1.33e-04	4.54e-06	0.0
1067	70	1.40e-04	3.10e-03	-0.05	-1.53e-04	1.23e-06	0.0
1067	71	1.86e-04	2.68e-03	-0.05	-1.33e-04	4.54e-06	0.0
1067	72	1.77e-04	2.76e-03	-0.05	-1.37e-04	3.88e-06	0.0
1068	1	5.57e-04	4.10e-03	-0.08	-2.00e-04	1.94e-05	0.0
1068	2	5.48e-04	4.87e-03	-0.08	-2.38e-04	1.67e-05	0.0
1068	13	3.42e-03	4.45e-03	-0.06	-1.74e-04	4.45e-05	0.0
1068	17	3.53e-03	4.11e-03	-0.06	-1.72e-04	4.45e-05	0.0
1068	21	1.15e-03	6.22e-03	-0.06	-1.73e-04	2.24e-05	0.0
1068	45	5.19e-03	5.22e-03	-0.07	-1.85e-04	6.19e-05	0.0
1068	49	5.37e-03	4.67e-03	-0.07	-1.83e-04	6.20e-05	0.0
1068	53	1.59e-03	8.03e-03	-0.06	-1.85e-04	2.68e-05	0.0
1068	69	4.26e-04	3.15e-03	-0.06	-1.54e-04	1.48e-05	0.0
1068	70	4.20e-04	3.66e-03	-0.06	-1.79e-04	1.30e-05	0.0
1068	71	4.26e-04	3.15e-03	-0.06	-1.54e-04	1.48e-05	0.0
1068	72	4.25e-04	3.25e-03	-0.06	-1.59e-04	1.44e-05	0.0
1069	1	4.90e-04	4.06e-03	-0.10	-1.98e-04	2.34e-05	0.0
1069	2	4.41e-04	4.84e-03	-0.10	-2.36e-04	2.05e-05	0.0
1069	13	3.55e-03	3.44e-03	-0.08	-1.69e-04	5.37e-05	0.0
1069	17	3.72e-03	3.10e-03	-0.08	-1.67e-04	5.37e-05	0.0
1069	21	1.05e-03	6.23e-03	-0.08	-1.74e-04	2.74e-05	0.0
1069	45	5.42e-03	3.64e-03	-0.09	-1.79e-04	7.48e-05	0.0
1069	49	5.70e-03	3.08e-03	-0.09	-1.76e-04	7.48e-05	0.0
1069	53	1.45e-03	8.06e-03	-0.08	-1.87e-04	3.29e-05	0.0
1069	69	3.74e-04	3.11e-03	-0.07	-1.52e-04	1.79e-05	0.0
1069	70	3.42e-04	3.64e-03	-0.08	-1.77e-04	1.59e-05	0.0
1069	71	3.74e-04	3.11e-03	-0.07	-1.52e-04	1.79e-05	0.0
1069	72	3.68e-04	3.22e-03	-0.07	-1.57e-04	1.75e-05	0.0
1070	2	1.70e-04	6.43e-03	-0.12	-3.13e-04	6.82e-06	0.0
1070	17	2.86e-03	5.10e-03	-0.08	-2.00e-04	1.54e-05	0.0
1070	29	1.19e-03	6.92e-03	-0.08	-2.22e-04	7.48e-06	0.0
1070	33	1.28e-03	7.08e-03	-0.08	-2.22e-04	8.60e-06	0.0
1070	49	4.49e-03	5.81e-03	-0.08	-2.06e-04	2.20e-05	0.0
1070	61	1.83e-03	8.70e-03	-0.09	-2.41e-04	9.41e-06	0.0
1070	65	1.97e-03	8.96e-03	-0.09	-2.41e-04	1.12e-05	0.0
1070	70	1.27e-04	4.80e-03	-0.09	-2.34e-04	5.09e-06	0.0
1070	72	1.08e-04	4.08e-03	-0.08	-1.99e-04	4.38e-06	0.0
1071	2	-1.83e-03	-1.79e-04	-0.35	0.0	-6.35e-05	0.0
1071	14	0.07	-0.02	-0.23	-1.19e-05	5.40e-05	-5.92e-05
1071	20	-0.07	-2.74e-03	-0.22	3.10e-06	-1.37e-04	4.96e-05
1071	24	-0.02	-0.04	-0.23	-1.87e-05	-6.92e-05	-3.41e-05
1071	46	0.11	-0.02	-0.24	-1.88e-05	1.10e-04	-9.39e-05
1071	52	-0.11	-4.05e-03	-0.22	5.00e-06	-1.93e-04	7.87e-05
1071	56	-0.03	-0.06	-0.23	-2.95e-05	-8.55e-05	-5.38e-05
1071	70	-1.33e-03	-1.34e-04	-0.27	0.0	-4.79e-05	0.0
1071	72	-9.27e-04	-1.18e-04	-0.24	0.0	-4.29e-05	0.0
1072	1	4.36e-03	-1.75e-04	-0.38	0.0	2.19e-04	0.0
1072	2	3.90e-03	-2.14e-04	-0.46	0.0	2.31e-04	0.0
1072	13	0.08	0.01	-0.29	9.13e-06	2.99e-04	-6.14e-05
1072	16	-0.08	-0.01	-0.30	-8.95e-06	3.83e-05	6.11e-05
1072	36	-0.02	-0.05	-0.29	-2.88e-05	1.30e-04	5.77e-05
1072	45	0.13	0.02	-0.28	1.42e-05	3.76e-04	-9.73e-05
1072	48	-0.12	-0.02	-0.30	-1.40e-05	-3.85e-05	9.70e-05
1072	68	-0.03	-0.08	-0.29	-4.58e-05	1.07e-04	9.18e-05
1072	69	3.35e-03	-1.34e-04	-0.29	0.0	1.69e-04	0.0
1072	70	3.05e-03	-1.60e-04	-0.35	0.0	1.77e-04	0.0
1072	71	3.35e-03	-1.34e-04	-0.29	0.0	1.69e-04	0.0
1072	72	3.29e-03	-1.40e-04	-0.30	0.0	1.70e-04	0.0
1073	2	-5.60e-04	-0.05	-0.15	2.28e-03	-8.04e-06	-2.25e-06
1073	20	-0.07	-0.06	-0.10	1.39e-03	1.77e-05	-3.81e-05
1073	33	0.02	0.06	-0.11	1.19e-03	-2.92e-05	1.62e-04
1073	36	-0.02	-0.12	-0.10	1.49e-03	-3.11e-06	-1.64e-04
1073	52	-0.11	-0.08	-0.10	1.42e-03	3.76e-05	-5.99e-05
1073	65	0.03	0.12	-0.11	1.10e-03	-3.68e-05	2.58e-04
1073	68	-0.03	-0.17	-0.10	1.58e-03	4.54e-06	-2.60e-04
1073	70	-3.95e-04	-0.04	-0.11	1.70e-03	-7.47e-06	-1.66e-06
1073	72	-2.16e-04	-0.03	-0.11	1.41e-03	-1.44e-05	-1.30e-06
1074	2	-5.91e-04	0.05	-0.15	-2.28e-03	-8.11e-06	3.50e-06
1074	11	-0.07	0.06	-0.10	-1.39e-03	1.76e-05	3.91e-05

1074	30	0.02	-0.06	-0.11	-1.19e-03	-2.92e-05	-1.61e-04
1074	31	-0.02	0.12	-0.10	-1.49e-03	-3.18e-06	1.65e-04
1074	43	-0.11	0.08	-0.10	-1.42e-03	3.75e-05	6.11e-05
1074	62	0.03	-0.12	-0.11	-1.10e-03	-3.68e-05	-2.57e-04
1074	63	-0.03	0.17	-0.10	-1.58e-03	4.46e-06	2.61e-04
1074	70	-4.18e-04	0.04	-0.11	-1.70e-03	-7.53e-06	2.59e-06
1074	72	-2.35e-04	0.03	-0.11	-1.41e-03	-1.45e-05	2.10e-06
1075	2	-7.06e-04	-0.06	-0.14	2.85e-03	-9.07e-06	1.01e-06
1075	4	-7.09e-04	-0.05	-0.11	2.35e-03	-8.44e-06	0.0
1075	17	0.07	-3.81e-03	-0.10	1.60e-03	-3.41e-05	-1.93e-05
1075	31	-0.01	0.07	-0.10	1.47e-03	1.22e-06	-9.55e-05
1075	34	0.02	-0.14	-0.10	1.83e-03	-8.31e-06	1.01e-04
1075	49	0.11	0.01	-0.10	1.56e-03	-5.31e-05	-3.11e-05
1075	63	-0.02	0.14	-0.11	1.37e-03	3.12e-06	-1.52e-04
1075	66	0.03	-0.21	-0.09	1.94e-03	-1.20e-05	1.61e-04
1075	70	-4.69e-04	-0.04	-0.11	2.12e-03	-6.31e-06	0.0
1075	72	-8.33e-05	-0.04	-0.10	1.75e-03	-2.87e-06	0.0
1076	2	-7.32e-04	0.06	-0.14	-2.85e-03	-9.08e-06	-1.11e-06
1076	11	-0.07	0.07	-0.10	-1.71e-03	3.02e-05	-2.00e-05
1076	29	0.02	0.14	-0.10	-1.83e-03	-8.32e-06	-1.02e-04
1076	30	0.02	-0.07	-0.10	-1.47e-03	-1.45e-05	9.44e-05
1076	43	-0.11	0.08	-0.10	-1.74e-03	4.92e-05	-3.16e-05
1076	61	0.03	0.21	-0.09	-1.94e-03	-1.20e-05	-1.61e-04
1076	62	0.03	-0.14	-0.11	-1.36e-03	-2.18e-05	1.50e-04
1076	70	-4.88e-04	0.04	-0.11	-2.12e-03	-6.31e-06	0.0
1076	72	-9.91e-05	0.04	-0.10	-1.75e-03	-2.87e-06	0.0
1077	2	-6.84e-04	0.06	-0.15	-2.68e-03	2.60e-06	0.0
1077	11	-0.07	0.05	-0.10	-1.59e-03	3.41e-05	-4.14e-06
1077	21	0.02	0.14	-0.10	-1.73e-03	-8.97e-06	1.70e-05
1077	22	0.02	-0.07	-0.11	-1.38e-03	-6.61e-06	-2.58e-05
1077	43	-0.11	0.06	-0.10	-1.61e-03	5.33e-05	-6.58e-06
1077	53	0.03	0.20	-0.10	-1.84e-03	-1.53e-05	2.65e-05
1077	54	0.03	-0.14	-0.11	-1.27e-03	-1.15e-05	-4.03e-05
1077	70	-4.64e-04	0.04	-0.11	-1.99e-03	1.96e-06	0.0
1077	72	-1.36e-04	0.03	-0.11	-1.64e-03	1.75e-06	0.0
1078	2	-6.62e-04	-0.06	-0.15	2.68e-03	2.57e-06	0.0
1078	20	-0.07	-0.05	-0.10	1.59e-03	3.41e-05	4.22e-06
1078	25	0.02	0.07	-0.11	1.38e-03	-6.49e-06	2.57e-05
1078	26	0.02	-0.14	-0.10	1.74e-03	-9.07e-06	-1.71e-05
1078	52	-0.10	-0.06	-0.10	1.61e-03	5.32e-05	6.73e-06
1078	57	0.03	0.14	-0.11	1.27e-03	-1.13e-05	4.03e-05
1078	58	0.03	-0.20	-0.10	1.84e-03	-1.54e-05	-2.67e-05
1078	70	-4.48e-04	-0.04	-0.11	1.99e-03	1.94e-06	0.0
1078	72	-1.23e-04	-0.03	-0.11	1.64e-03	1.73e-06	0.0

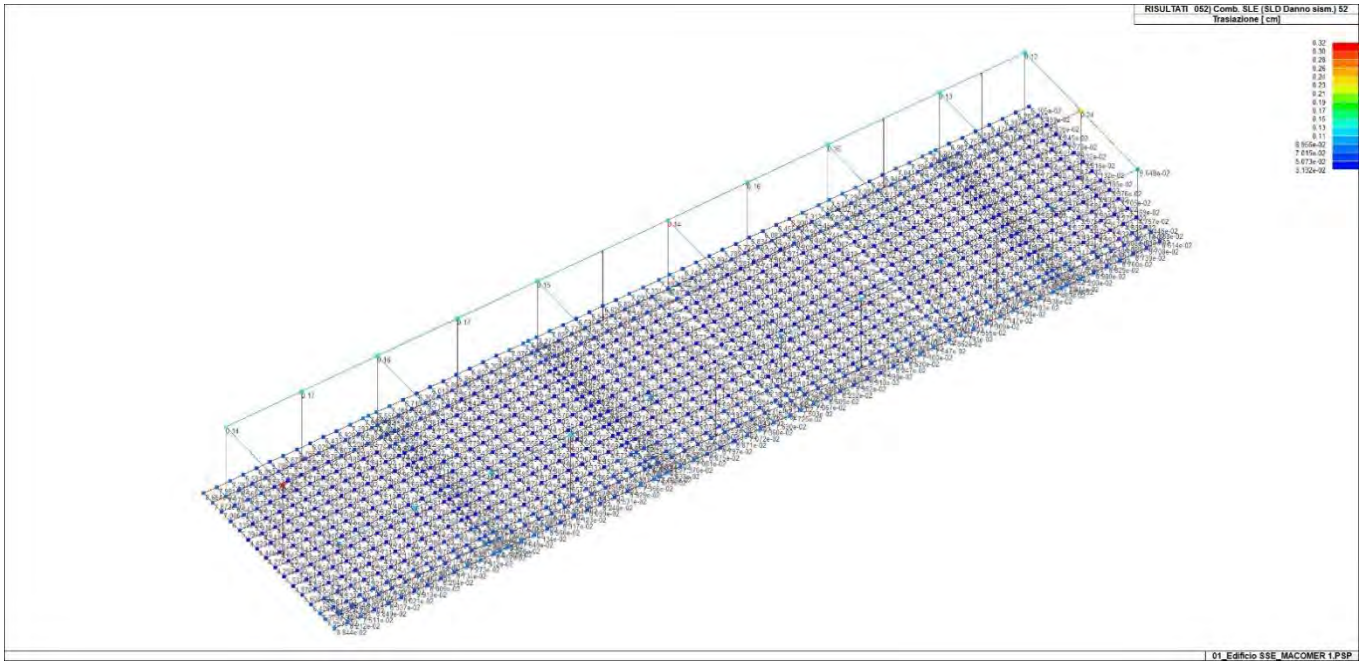
Nodo	**Traslazione X**	**Traslazione Y**	**Traslazione Z**	**Rotazione X**	**Rotazione Y**	**Rotazione Z**
	-0.12	-0.23	-0.46	-3.06e-03	-1.93e-04	-2.60e-04
	0.13	0.23	-0.03	3.06e-03	3.76e-04	2.61e-04



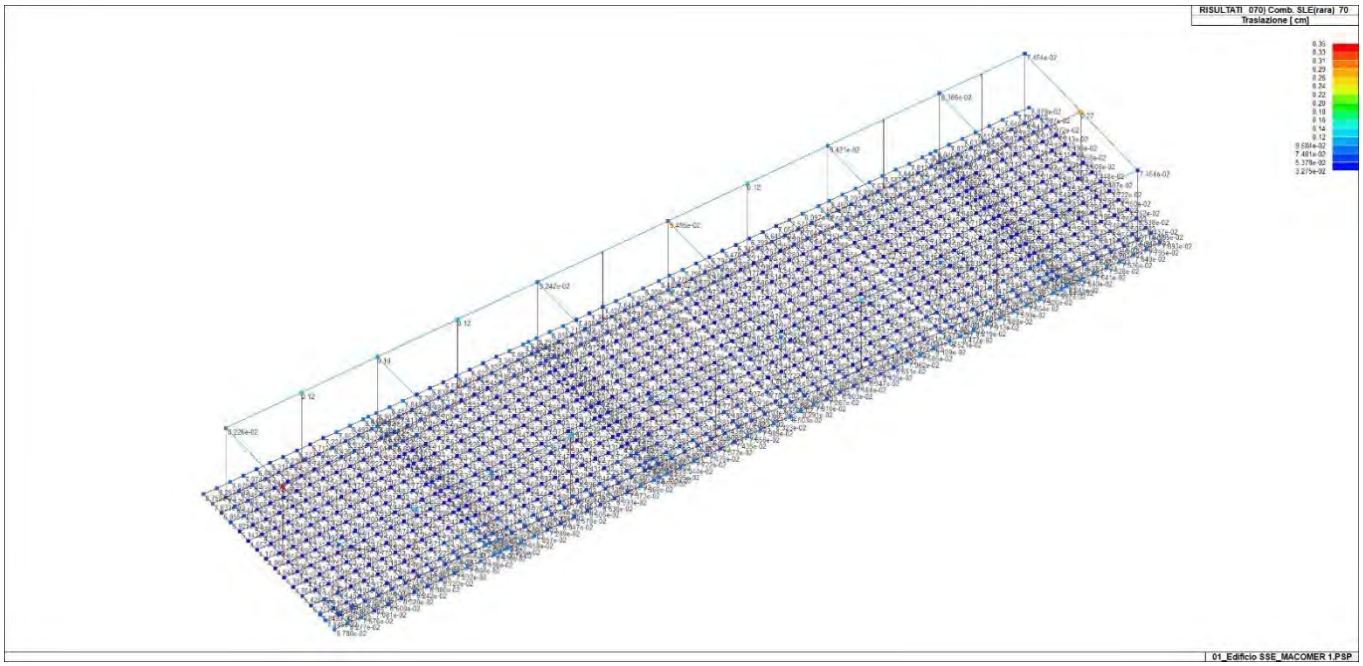
41_RIS_SPOSTAMENTI_002_Comb. SLU A1 2



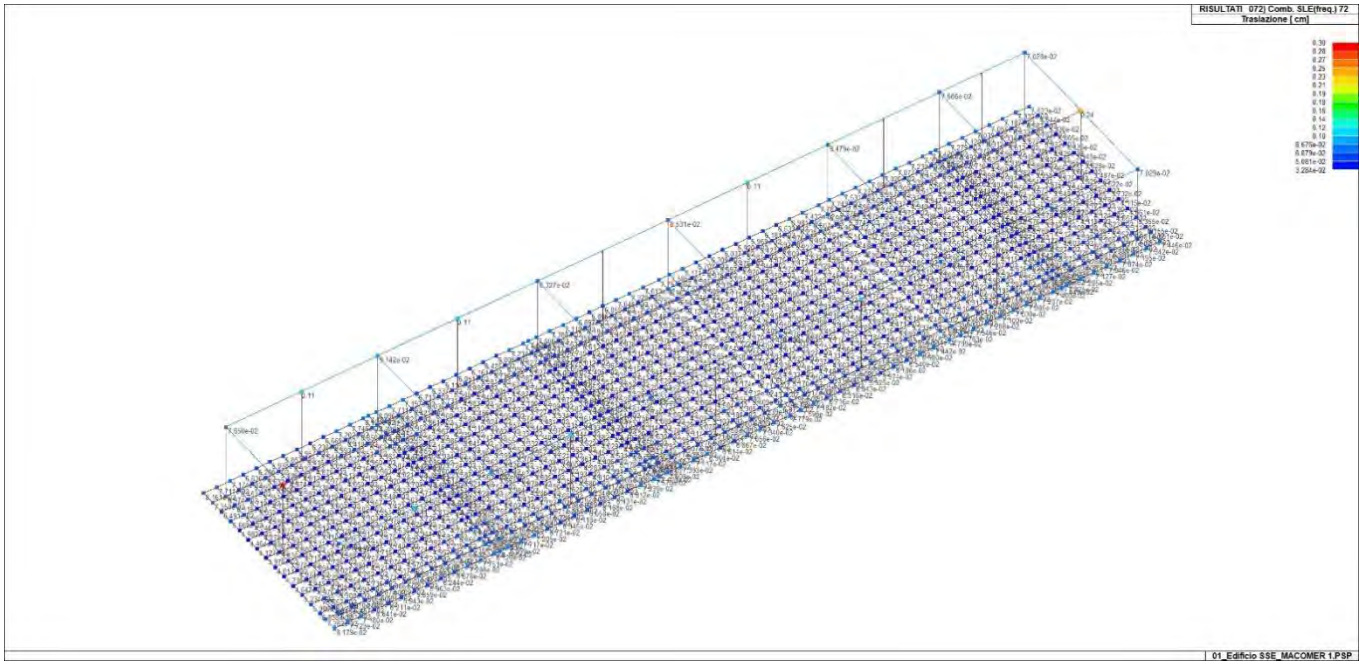
41_RIS_SPOSTAMENTI_020_Comb. SLU A1 (SLV sism.) 20



41_RIS_SPOSTAMENTI_052_Comb. SLE (SLD Danno sism.) 52



41_RIS_SPOSTAMENTI_070_Comb. SLE(rara) 70



41_RIS_SPOSTAMENTI_072_Comb. SLE(freq.) 72

Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
Nodo		**Azione X**	**Azione Y**	**Azione Z**	**Azione RX**	**Azione RY**	**Azione RZ**
Nodo	**Cmb**	**Azione X** daN	**Azione Y** daN	**Azione Z** daN	**Azione RX** daN cm	**Azione RY** daN cm	**Azione RZ** daN cm

17. RISULTATI OPERE DI FONDAZIONE

17.1. LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sotto riportate.

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.

Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (espresse nel riferimento globale della struttura) per ogni palo componente l'opera.

In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	codice corrispondente al nome assegnato al tipo di plinto di fondazione: 3) palo singolo (*PALO*) 4) plinto su palo 5) plinto su due pali (*PL.2P*) 6) plinto su tre pali (*PL.3P*) 7) plinto su quattro pali (*PL.4P*) 8) plinto rettangolare su cinque pali (*PL.5P.R*) 9) plinto pentagonale su cinque pali (*PL.5P*) 10) plinto su sei pali (*PL.6P*)
Palo	numero del palo
Comb.	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
Quota	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione Fz (corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno.

In particolare viene riportato:

Nodo		numero del nodo a cui è applicato il plinto
Tipo		Codice identificativo del nome assegnato al plinto
area		area dell'impronta del plinto
Wink O	**Wink V**	coefficienti di Winkler (orizzontale e verticale) adottati

Comb	Combinazione di carico in cui si verificano i valori riportati
Pt (P1 P2 P3 P4)	valori di pressione nei vertici

La terza tabella è riferita alle fondazioni tipo platea su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.

Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che compaiono nella tabella.

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
105	PLINTO SUPERFICIALE
106	PLINTO SUPERFICIALE
107	PLINTO SUPERFICIALE
108	PLINTO SUPERFICIALE
109	PLINTO SUPERFICIALE
110	PLINTO SUPERFICIALE
111	PLINTO SUPERFICIALE
112	PLINTO SUPERFICIALE
113	PLINTO SUPERFICIALE
114	PLINTO SUPERFICIALE
115	PLINTO SUPERFICIALE
116	PLINTO SUPERFICIALE
117	PLINTO SUPERFICIALE
118	PLINTO SUPERFICIALE
119	PLINTO SUPERFICIALE
120	PLINTO SUPERFICIALE
121	PLINTO SUPERFICIALE
122	PLINTO SUPERFICIALE
123	PLINTO SUPERFICIALE
124	FONDAZIONE NASTRIFORME
125	CALCOLO DEI K DI WINKLER

Nodo (G)	Pt 1/12 daN/cm2	Pt 2/13 daN/cm2	Pt 3... daN/cm2	Pt 4... daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2

1	-0.30	-0.22	-0.23	-0.23	-0.21
3	-0.30	-0.22	-0.23	-0.23	-0.21
9	-0.29	-0.21	-0.21	-0.22	-0.20
11	-0.30	-0.21	-0.22	-0.22	-0.21
12	-0.30	-0.22	-0.22	-0.23	-0.21
13	-0.30	-0.22	-0.22	-0.23	-0.21
15	-0.30	-0.22	-0.22	-0.23	-0.21
17	-0.29	-0.21	-0.21	-0.22	-0.20
21	-0.30	-0.21	-0.22	-0.22	-0.21
22	-0.32	-0.23	-0.23	-0.24	-0.22
23	-0.30	-0.22	-0.22	-0.23	-0.21
24	-0.18	-0.14	-0.14	-0.14	-0.13
25	-0.28	-0.21	-0.23	-0.21	-0.20
27	-0.28	-0.21	-0.22	-0.21	-0.20
29	-0.27	-0.20	-0.21	-0.21	-0.20
30	-0.25	-0.19	-0.19	-0.19	-0.18
31	-0.27	-0.20	-0.21	-0.21	-0.20
32	-0.22	-0.17	-0.17	-0.17	-0.16
33	-0.24	-0.18	-0.18	-0.18	-0.17
34	-0.19	-0.15	-0.15	-0.15	-0.14
35	-0.20	-0.16	-0.16	-0.16	-0.15
36	-0.17	-0.13	-0.13	-0.13	-0.13
37	-0.18	-0.14	-0.14	-0.14	-0.14
38	-0.16	-0.12	-0.12	-0.12	-0.12
39	-0.16	-0.13	-0.13	-0.13	-0.12
40	-0.15	-0.12	-0.12	-0.11	-0.11
41	-0.15	-0.12	-0.12	-0.12	-0.12
42	-0.15	-0.11	-0.12	-0.11	-0.11
43	-0.15	-0.12	-0.12	-0.12	-0.12
44	-0.15	-0.12	-0.12	-0.12	-0.12
45	-0.16	-0.13	-0.13	-0.12	-0.12
46	-0.16	-0.13	-0.13	-0.13	-0.12
47	-0.17	-0.13	-0.14	-0.13	-0.13
48	-0.18	-0.14	-0.14	-0.14	-0.14
49	-0.19	-0.15	-0.15	-0.15	-0.14
50	-0.21	-0.16	-0.16	-0.16	-0.15
51	-0.22	-0.17	-0.17	-0.17	-0.16
52	-0.24	-0.18	-0.18	-0.18	-0.17
53	-0.26	-0.19	-0.20	-0.20	-0.19
54	-0.27	-0.20	-0.21	-0.21	-0.20
55	-0.25	-0.19	-0.19	-0.19	-0.18
56	-0.24	-0.17	-0.18	-0.18	-0.17
57	-0.21	-0.15	-0.16	-0.16	-0.15
58	-0.18	-0.14	-0.14	-0.14	-0.14
59	-0.16	-0.12	-0.13	-0.12	-0.12
60	-0.15	-0.12	-0.12	-0.11	-0.11
61	-0.14	-0.11	-0.11	-0.11	-0.11
62	-0.14	-0.11	-0.11	-0.11	-0.11
63	-0.14	-0.11	-0.11	-0.11	-0.11
64	-0.16	-0.12	-0.12	-0.12	-0.12
65	-0.17	-0.13	-0.13	-0.13	-0.13
66	-0.20	-0.15	-0.15	-0.15	-0.14
67	-0.22	-0.17	-0.17	-0.17	-0.16
68	-0.25	-0.19	-0.19	-0.19	-0.18
69	-0.24	-0.18	-0.18	-0.18	-0.17
70	-0.22	-0.16	-0.17	-0.17	-0.16
71	-0.20	-0.15	-0.15	-0.15	-0.14
72	-0.17	-0.13	-0.13	-0.13	-0.13
73	-0.16	-0.12	-0.12	-0.12	-0.12
74	-0.14	-0.11	-0.11	-0.11	-0.11
75	-0.14	-0.11	-0.11	-0.10	-0.10
76	-0.14	-0.10	-0.10	-0.10	-0.10
77	-0.14	-0.11	-0.11	-0.11	-0.11
78	-0.15	-0.11	-0.12	-0.11	-0.11
79	-0.17	-0.13	-0.13	-0.13	-0.12
80	-0.19	-0.14	-0.14	-0.14	-0.14
81	-0.21	-0.16	-0.16	-0.16	-0.15
82	-0.24	-0.18	-0.18	-0.18	-0.17
83	-0.23	-0.17	-0.17	-0.17	-0.16
84	-0.21	-0.16	-0.16	-0.16	-0.15
85	-0.19	-0.14	-0.14	-0.14	-0.14
86	-0.17	-0.13	-0.13	-0.13	-0.13
87	-0.15	-0.12	-0.12	-0.12	-0.11
88	-0.14	-0.11	-0.11	-0.11	-0.11
89	-0.13	-0.10	-0.10	-0.10	-0.10
90	-0.13	-0.10	-0.10	-0.10	-0.10

91	-0.14	-0.10	-0.10	-0.10	-0.10
92	-0.15	-0.11	-0.11	-0.11	-0.11
93	-0.16	-0.12	-0.12	-0.12	-0.12
94	-0.18	-0.13	-0.14	-0.14	-0.13
95	-0.20	-0.15	-0.15	-0.15	-0.15
96	-0.23	-0.17	-0.17	-0.17	-0.16
97	-0.23	-0.17	-0.17	-0.17	-0.16
98	-0.21	-0.16	-0.16	-0.16	-0.15
99	-0.19	-0.14	-0.14	-0.14	-0.14
100	-0.17	-0.13	-0.13	-0.13	-0.12
101	-0.15	-0.11	-0.11	-0.11	-0.11
102	-0.14	-0.11	-0.11	-0.11	-0.11
103	-0.13	-0.10	-0.10	-0.10	-0.10
104	-0.13	-0.10	-0.10	-0.10	-0.10
105	-0.13	-0.10	-0.10	-0.10	-0.10
106	-0.14	-0.11	-0.11	-0.11	-0.11
107	-0.16	-0.12	-0.12	-0.12	-0.12
108	-0.18	-0.13	-0.13	-0.14	-0.13
109	-0.20	-0.15	-0.15	-0.15	-0.15
110	-0.23	-0.17	-0.17	-0.17	-0.16
111	-0.23	-0.17	-0.17	-0.17	-0.16
112	-0.21	-0.16	-0.16	-0.16	-0.15
113	-0.19	-0.14	-0.14	-0.14	-0.14
114	-0.17	-0.13	-0.13	-0.13	-0.12
115	-0.15	-0.11	-0.12	-0.12	-0.11
116	-0.14	-0.11	-0.11	-0.11	-0.11
117	-0.13	-0.10	-0.10	-0.10	-0.10
118	-0.13	-0.10	-0.10	-0.10	-0.10
119	-0.14	-0.10	-0.10	-0.10	-0.10
120	-0.15	-0.11	-0.11	-0.11	-0.11
121	-0.16	-0.12	-0.12	-0.12	-0.12
122	-0.18	-0.13	-0.14	-0.14	-0.13
123	-0.20	-0.15	-0.15	-0.16	-0.15
124	-0.23	-0.17	-0.17	-0.17	-0.16
125	-0.24	-0.18	-0.18	-0.18	-0.17
126	-0.22	-0.16	-0.17	-0.17	-0.16
127	-0.20	-0.15	-0.15	-0.15	-0.14
128	-0.17	-0.13	-0.13	-0.13	-0.13
129	-0.16	-0.12	-0.12	-0.12	-0.12
130	-0.14	-0.11	-0.11	-0.11	-0.11
131	-0.13	-0.10	-0.10	-0.10	-0.10
132	-0.13	-0.10	-0.10	-0.10	-0.10
133	-0.14	-0.11	-0.11	-0.11	-0.11
134	-0.15	-0.11	-0.11	-0.11	-0.11
135	-0.17	-0.12	-0.13	-0.13	-0.12
136	-0.19	-0.14	-0.14	-0.14	-0.14
137	-0.21	-0.16	-0.16	-0.16	-0.15
138	-0.24	-0.18	-0.18	-0.18	-0.17
139	-0.26	-0.19	-0.19	-0.20	-0.18
140	-0.24	-0.17	-0.18	-0.18	-0.17
141	-0.21	-0.15	-0.15	-0.16	-0.15
142	-0.18	-0.13	-0.14	-0.14	-0.13
143	-0.16	-0.12	-0.12	-0.12	-0.12
144	-0.15	-0.11	-0.11	-0.11	-0.11
145	-0.14	-0.11	-0.11	-0.11	-0.11
146	-0.14	-0.10	-0.11	-0.10	-0.10
147	-0.14	-0.11	-0.11	-0.11	-0.11
148	-0.15	-0.12	-0.12	-0.12	-0.12
149	-0.17	-0.13	-0.13	-0.13	-0.13
150	-0.20	-0.14	-0.15	-0.15	-0.14
151	-0.23	-0.16	-0.17	-0.17	-0.16
152	-0.26	-0.19	-0.19	-0.20	-0.18
153	-0.28	-0.20	-0.21	-0.21	-0.20
154	-0.26	-0.18	-0.19	-0.19	-0.18
155	-0.22	-0.16	-0.16	-0.17	-0.16
156	-0.19	-0.14	-0.14	-0.15	-0.14
157	-0.17	-0.12	-0.13	-0.13	-0.12
158	-0.15	-0.11	-0.11	-0.12	-0.11
159	-0.14	-0.11	-0.11	-0.11	-0.11
160	-0.14	-0.11	-0.11	-0.11	-0.11
161	-0.15	-0.11	-0.11	-0.11	-0.11
162	-0.16	-0.12	-0.12	-0.12	-0.12
163	-0.18	-0.13	-0.13	-0.14	-0.13
164	-0.21	-0.15	-0.15	-0.16	-0.15
165	-0.24	-0.17	-0.18	-0.18	-0.17
166	-0.28	-0.20	-0.21	-0.21	-0.19

167	-0.30	-0.21	-0.22	-0.23	-0.21
168	-0.27	-0.20	-0.20	-0.21	-0.19
169	-0.23	-0.17	-0.17	-0.18	-0.17
170	-0.20	-0.14	-0.15	-0.15	-0.14
171	-0.17	-0.13	-0.13	-0.13	-0.13
172	-0.15	-0.12	-0.12	-0.12	-0.12
173	-0.15	-0.11	-0.11	-0.11	-0.11
174	-0.14	-0.11	-0.11	-0.11	-0.11
175	-0.15	-0.11	-0.11	-0.11	-0.11
176	-0.16	-0.12	-0.12	-0.13	-0.12
177	-0.19	-0.14	-0.14	-0.14	-0.14
178	-0.22	-0.16	-0.16	-0.17	-0.16
179	-0.21	-0.16	-0.16	-0.16	-0.15
180	-0.31	-0.22	-0.23	-0.24	-0.22
181	-0.28	-0.20	-0.21	-0.22	-0.20
182	-0.24	-0.17	-0.17	-0.18	-0.17
183	-0.20	-0.15	-0.15	-0.15	-0.15
184	-0.18	-0.13	-0.13	-0.13	-0.13
185	-0.16	-0.12	-0.12	-0.12	-0.12
186	-0.15	-0.11	-0.11	-0.11	-0.11
187	-0.15	-0.11	-0.11	-0.11	-0.11
188	-0.15	-0.11	-0.11	-0.12	-0.11
189	-0.17	-0.12	-0.12	-0.13	-0.12
190	-0.19	-0.14	-0.14	-0.15	-0.14
191	-0.22	-0.16	-0.16	-0.17	-0.16
192	-0.27	-0.19	-0.19	-0.20	-0.19
193	-0.31	-0.22	-0.23	-0.24	-0.22
194	-0.29	-0.20	-0.21	-0.22	-0.20
195	-0.24	-0.17	-0.17	-0.18	-0.17
196	-0.20	-0.15	-0.15	-0.16	-0.15
197	-0.18	-0.13	-0.13	-0.13	-0.13
198	-0.16	-0.12	-0.12	-0.12	-0.12
199	-0.15	-0.11	-0.11	-0.11	-0.11
200	-0.15	-0.11	-0.11	-0.11	-0.11
201	-0.15	-0.11	-0.12	-0.12	-0.11
202	-0.17	-0.12	-0.12	-0.13	-0.12
203	-0.19	-0.14	-0.14	-0.15	-0.14
204	-0.22	-0.16	-0.16	-0.17	-0.16
205	-0.27	-0.19	-0.19	-0.20	-0.19
206	-0.32	-0.23	-0.23	-0.24	-0.22
207	-0.31	-0.22	-0.23	-0.24	-0.22
208	-0.28	-0.20	-0.21	-0.22	-0.20
209	-0.24	-0.17	-0.17	-0.18	-0.17
210	-0.20	-0.15	-0.15	-0.15	-0.15
211	-0.18	-0.13	-0.13	-0.13	-0.13
212	-0.16	-0.12	-0.12	-0.12	-0.12
213	-0.15	-0.11	-0.11	-0.11	-0.11
214	-0.15	-0.11	-0.11	-0.11	-0.11
215	-0.15	-0.11	-0.12	-0.12	-0.11
216	-0.17	-0.12	-0.13	-0.13	-0.12
217	-0.19	-0.14	-0.14	-0.15	-0.14
218	-0.22	-0.16	-0.16	-0.17	-0.16
219	-0.27	-0.19	-0.19	-0.20	-0.19
220	-0.31	-0.22	-0.23	-0.24	-0.22
221	-0.30	-0.21	-0.22	-0.23	-0.21
222	-0.27	-0.20	-0.20	-0.21	-0.19
223	-0.23	-0.17	-0.17	-0.18	-0.17
224	-0.20	-0.15	-0.15	-0.15	-0.14
225	-0.17	-0.13	-0.13	-0.13	-0.13
226	-0.16	-0.12	-0.12	-0.12	-0.12
227	-0.15	-0.11	-0.11	-0.11	-0.11
228	-0.14	-0.11	-0.11	-0.11	-0.11
229	-0.15	-0.11	-0.11	-0.12	-0.11
230	-0.17	-0.12	-0.12	-0.13	-0.12
231	-0.19	-0.14	-0.14	-0.14	-0.14
232	-0.22	-0.16	-0.16	-0.17	-0.16
233	-0.26	-0.18	-0.19	-0.19	-0.18
234	-0.30	-0.21	-0.22	-0.23	-0.21
235	-0.28	-0.20	-0.21	-0.21	-0.20
236	-0.26	-0.19	-0.19	-0.19	-0.18
237	-0.22	-0.16	-0.16	-0.17	-0.16
238	-0.19	-0.14	-0.14	-0.15	-0.14
239	-0.17	-0.13	-0.13	-0.13	-0.12
240	-0.15	-0.11	-0.12	-0.12	-0.11
241	-0.14	-0.11	-0.11	-0.11	-0.11
242	-0.14	-0.11	-0.11	-0.11	-0.11

243	-0.15	-0.11	-0.11	-0.11	-0.11
244	-0.16	-0.12	-0.12	-0.12	-0.12
245	-0.18	-0.13	-0.14	-0.14	-0.13
246	-0.21	-0.15	-0.15	-0.16	-0.15
247	-0.24	-0.18	-0.18	-0.18	-0.17
248	-0.28	-0.20	-0.21	-0.21	-0.20
249	-0.26	-0.19	-0.19	-0.20	-0.18
250	-0.24	-0.17	-0.18	-0.18	-0.17
251	-0.21	-0.15	-0.16	-0.16	-0.15
252	-0.18	-0.14	-0.14	-0.14	-0.13
253	-0.16	-0.12	-0.12	-0.12	-0.12
254	-0.15	-0.11	-0.11	-0.11	-0.11
255	-0.14	-0.11	-0.11	-0.11	-0.11
256	-0.14	-0.11	-0.11	-0.11	-0.11
257	-0.14	-0.11	-0.11	-0.11	-0.11
258	-0.16	-0.12	-0.12	-0.12	-0.12
259	-0.17	-0.13	-0.13	-0.13	-0.13
260	-0.20	-0.15	-0.15	-0.15	-0.14
261	-0.23	-0.17	-0.17	-0.17	-0.16
262	-0.26	-0.19	-0.19	-0.20	-0.18
263	-0.25	-0.18	-0.18	-0.19	-0.17
264	-0.23	-0.17	-0.17	-0.17	-0.16
265	-0.20	-0.15	-0.15	-0.15	-0.15
266	-0.18	-0.13	-0.13	-0.14	-0.13
267	-0.16	-0.12	-0.12	-0.12	-0.12
268	-0.14	-0.11	-0.11	-0.11	-0.11
269	-0.14	-0.10	-0.10	-0.10	-0.10
270	-0.13	-0.10	-0.10	-0.10	-0.10
271	-0.14	-0.11	-0.11	-0.11	-0.11
272	-0.15	-0.11	-0.12	-0.12	-0.11
273	-0.17	-0.13	-0.13	-0.13	-0.12
274	-0.19	-0.14	-0.14	-0.15	-0.14
275	-0.22	-0.16	-0.16	-0.16	-0.16
276	-0.25	-0.18	-0.18	-0.19	-0.17
277	-0.24	-0.17	-0.18	-0.18	-0.17
278	-0.22	-0.16	-0.16	-0.17	-0.16
279	-0.19	-0.14	-0.15	-0.15	-0.14
280	-0.17	-0.13	-0.13	-0.13	-0.13
281	-0.15	-0.12	-0.12	-0.12	-0.12
282	-0.14	-0.11	-0.11	-0.11	-0.11
283	-0.13	-0.10	-0.10	-0.10	-0.10
284	-0.13	-0.10	-0.10	-0.10	-0.10
285	-0.14	-0.11	-0.11	-0.11	-0.11
286	-0.15	-0.11	-0.11	-0.11	-0.11
287	-0.16	-0.12	-0.12	-0.13	-0.12
288	-0.19	-0.14	-0.14	-0.14	-0.14
289	-0.21	-0.15	-0.16	-0.16	-0.15
290	-0.24	-0.17	-0.18	-0.18	-0.17
291	-0.23	-0.17	-0.17	-0.18	-0.17
292	-0.22	-0.16	-0.16	-0.17	-0.16
293	-0.19	-0.14	-0.14	-0.15	-0.14
294	-0.17	-0.13	-0.13	-0.13	-0.13
295	-0.15	-0.12	-0.12	-0.12	-0.11
296	-0.14	-0.11	-0.11	-0.11	-0.11
297	-0.13	-0.10	-0.10	-0.10	-0.10
298	-0.13	-0.10	-0.10	-0.10	-0.10
299	-0.14	-0.10	-0.11	-0.10	-0.10
300	-0.15	-0.11	-0.11	-0.11	-0.11
301	-0.16	-0.12	-0.12	-0.12	-0.12
302	-0.18	-0.14	-0.14	-0.14	-0.13
303	-0.21	-0.15	-0.16	-0.16	-0.15
304	-0.23	-0.17	-0.17	-0.18	-0.17
305	-0.24	-0.17	-0.18	-0.18	-0.17
306	-0.22	-0.16	-0.17	-0.17	-0.16
307	-0.20	-0.14	-0.15	-0.15	-0.14
308	-0.17	-0.13	-0.13	-0.13	-0.13
309	-0.15	-0.12	-0.12	-0.12	-0.12
310	-0.14	-0.11	-0.11	-0.11	-0.11
311	-0.13	-0.10	-0.10	-0.10	-0.10
312	-0.13	-0.10	-0.10	-0.10	-0.10
313	-0.14	-0.11	-0.11	-0.11	-0.10
314	-0.15	-0.11	-0.11	-0.11	-0.11
315	-0.16	-0.12	-0.12	-0.13	-0.12
316	-0.19	-0.14	-0.14	-0.14	-0.14
317	-0.21	-0.15	-0.16	-0.16	-0.15
318	-0.24	-0.17	-0.18	-0.18	-0.17

319	-0.25	-0.18	-0.18	-0.19	-0.18
320	-0.23	-0.17	-0.17	-0.17	-0.16
321	-0.20	-0.15	-0.15	-0.15	-0.15
322	-0.18	-0.13	-0.13	-0.13	-0.13
323	-0.16	-0.12	-0.12	-0.12	-0.12
324	-0.14	-0.11	-0.11	-0.11	-0.11
325	-0.13	-0.10	-0.10	-0.10	-0.10
326	-0.13	-0.10	-0.10	-0.10	-0.10
327	-0.14	-0.11	-0.11	-0.11	-0.11
328	-0.15	-0.11	-0.11	-0.12	-0.11
329	-0.17	-0.13	-0.13	-0.13	-0.12
330	-0.19	-0.14	-0.14	-0.15	-0.14
331	-0.22	-0.16	-0.16	-0.17	-0.16
332	-0.25	-0.18	-0.18	-0.19	-0.18
333	-0.26	-0.19	-0.19	-0.20	-0.19
334	-0.24	-0.18	-0.18	-0.18	-0.17
335	-0.21	-0.15	-0.16	-0.16	-0.15
336	-0.18	-0.13	-0.14	-0.14	-0.13
337	-0.16	-0.12	-0.12	-0.12	-0.12
338	-0.15	-0.11	-0.11	-0.11	-0.11
339	-0.14	-0.11	-0.11	-0.11	-0.10
340	-0.14	-0.10	-0.10	-0.10	-0.10
341	-0.14	-0.11	-0.11	-0.11	-0.11
342	-0.15	-0.12	-0.12	-0.12	-0.12
343	-0.17	-0.13	-0.13	-0.13	-0.13
344	-0.20	-0.15	-0.15	-0.15	-0.14
345	-0.23	-0.17	-0.17	-0.17	-0.16
346	-0.26	-0.19	-0.19	-0.20	-0.19
347	-0.28	-0.20	-0.20	-0.21	-0.20
348	-0.25	-0.18	-0.19	-0.19	-0.18
349	-0.22	-0.16	-0.16	-0.17	-0.16
350	-0.19	-0.14	-0.14	-0.14	-0.14
351	-0.16	-0.12	-0.12	-0.13	-0.12
352	-0.15	-0.11	-0.11	-0.11	-0.11
353	-0.14	-0.11	-0.11	-0.11	-0.11
354	-0.14	-0.11	-0.11	-0.11	-0.11
355	-0.14	-0.11	-0.11	-0.11	-0.11
356	-0.16	-0.12	-0.12	-0.12	-0.12
357	-0.18	-0.13	-0.13	-0.14	-0.13
358	-0.21	-0.15	-0.15	-0.16	-0.15
359	-0.24	-0.17	-0.18	-0.18	-0.17
360	-0.28	-0.20	-0.20	-0.21	-0.20
361	-0.29	-0.21	-0.21	-0.22	-0.20
362	-0.26	-0.19	-0.19	-0.20	-0.19
363	-0.22	-0.16	-0.16	-0.17	-0.16
364	-0.19	-0.14	-0.14	-0.15	-0.14
365	-0.17	-0.12	-0.13	-0.13	-0.12
366	-0.15	-0.11	-0.11	-0.12	-0.11
367	-0.14	-0.11	-0.11	-0.11	-0.11
368	-0.14	-0.11	-0.11	-0.11	-0.11
369	-0.15	-0.11	-0.11	-0.11	-0.11
370	-0.16	-0.12	-0.12	-0.12	-0.12
371	-0.18	-0.13	-0.13	-0.14	-0.13
372	-0.21	-0.15	-0.15	-0.16	-0.15
373	-0.25	-0.18	-0.18	-0.19	-0.18
374	-0.29	-0.21	-0.21	-0.22	-0.20
375	-0.27	-0.19	-0.19	-0.20	-0.19
376	-0.23	-0.16	-0.17	-0.17	-0.16
377	-0.19	-0.14	-0.14	-0.15	-0.14
378	-0.17	-0.13	-0.13	-0.13	-0.12
379	-0.15	-0.11	-0.11	-0.12	-0.11
380	-0.14	-0.11	-0.11	-0.11	-0.11
381	-0.14	-0.11	-0.11	-0.11	-0.11
382	-0.15	-0.11	-0.11	-0.11	-0.11
383	-0.16	-0.12	-0.12	-0.12	-0.12
384	-0.18	-0.13	-0.14	-0.14	-0.13
385	-0.21	-0.15	-0.16	-0.16	-0.15
386	-0.25	-0.18	-0.18	-0.19	-0.18
387	-0.29	-0.21	-0.21	-0.22	-0.20
388	-0.27	-0.19	-0.19	-0.20	-0.19
389	-0.23	-0.16	-0.17	-0.17	-0.16
390	-0.19	-0.14	-0.14	-0.15	-0.14
391	-0.17	-0.13	-0.13	-0.13	-0.13
392	-0.15	-0.11	-0.11	-0.12	-0.11
393	-0.14	-0.11	-0.11	-0.11	-0.11
394	-0.14	-0.11	-0.11	-0.11	-0.11

395	-0.15	-0.11	-0.11	-0.11	-0.11
396	-0.16	-0.12	-0.12	-0.12	-0.12
397	-0.18	-0.13	-0.14	-0.14	-0.13
398	-0.21	-0.15	-0.16	-0.16	-0.15
399	-0.25	-0.18	-0.18	-0.19	-0.18
400	-0.29	-0.21	-0.21	-0.22	-0.20
401	-0.28	-0.20	-0.21	-0.22	-0.20
402	-0.26	-0.19	-0.19	-0.20	-0.18
403	-0.22	-0.16	-0.16	-0.17	-0.16
404	-0.19	-0.14	-0.14	-0.15	-0.14
405	-0.17	-0.13	-0.13	-0.13	-0.13
406	-0.15	-0.11	-0.11	-0.12	-0.11
407	-0.14	-0.11	-0.11	-0.11	-0.11
408	-0.14	-0.11	-0.11	-0.11	-0.11
409	-0.15	-0.11	-0.11	-0.11	-0.11
410	-0.16	-0.12	-0.12	-0.12	-0.12
411	-0.18	-0.13	-0.14	-0.14	-0.13
412	-0.21	-0.15	-0.15	-0.16	-0.15
413	-0.25	-0.18	-0.18	-0.19	-0.17
414	-0.28	-0.20	-0.21	-0.21	-0.20
415	-0.27	-0.20	-0.20	-0.21	-0.19
416	-0.25	-0.18	-0.19	-0.19	-0.18
417	-0.22	-0.16	-0.16	-0.17	-0.16
418	-0.19	-0.14	-0.14	-0.14	-0.14
419	-0.17	-0.12	-0.13	-0.13	-0.12
420	-0.15	-0.11	-0.11	-0.12	-0.11
421	-0.14	-0.11	-0.11	-0.11	-0.11
422	-0.14	-0.11	-0.11	-0.11	-0.11
423	-0.15	-0.11	-0.11	-0.11	-0.11
424	-0.16	-0.12	-0.12	-0.12	-0.12
425	-0.18	-0.13	-0.13	-0.14	-0.13
426	-0.21	-0.15	-0.15	-0.16	-0.15
427	-0.24	-0.17	-0.18	-0.18	-0.17
428	-0.27	-0.20	-0.20	-0.21	-0.19
429	-0.27	-0.19	-0.20	-0.20	-0.19
430	-0.25	-0.18	-0.18	-0.19	-0.18
431	-0.22	-0.16	-0.16	-0.16	-0.16
432	-0.19	-0.14	-0.14	-0.14	-0.14
433	-0.17	-0.12	-0.12	-0.13	-0.12
434	-0.15	-0.11	-0.11	-0.12	-0.11
435	-0.14	-0.11	-0.11	-0.11	-0.11
436	-0.14	-0.11	-0.11	-0.11	-0.11
437	-0.15	-0.11	-0.11	-0.11	-0.11
438	-0.16	-0.12	-0.12	-0.12	-0.12
439	-0.18	-0.13	-0.13	-0.14	-0.13
440	-0.20	-0.15	-0.15	-0.16	-0.15
441	-0.23	-0.17	-0.17	-0.18	-0.17
442	-0.27	-0.19	-0.20	-0.20	-0.19
443	-0.26	-0.19	-0.19	-0.20	-0.19
444	-0.24	-0.18	-0.18	-0.19	-0.17
445	-0.21	-0.16	-0.16	-0.16	-0.15
446	-0.19	-0.14	-0.14	-0.14	-0.14
447	-0.17	-0.12	-0.12	-0.13	-0.12
448	-0.15	-0.11	-0.11	-0.12	-0.11
449	-0.14	-0.11	-0.11	-0.11	-0.11
450	-0.14	-0.11	-0.11	-0.11	-0.11
451	-0.15	-0.11	-0.11	-0.11	-0.11
452	-0.16	-0.12	-0.12	-0.12	-0.12
453	-0.18	-0.13	-0.13	-0.14	-0.13
454	-0.20	-0.15	-0.15	-0.15	-0.15
455	-0.23	-0.17	-0.17	-0.18	-0.17
456	-0.26	-0.19	-0.19	-0.20	-0.19
457	-0.27	-0.19	-0.20	-0.20	-0.19
458	-0.25	-0.18	-0.18	-0.19	-0.17
459	-0.21	-0.16	-0.16	-0.16	-0.16
460	-0.19	-0.14	-0.14	-0.14	-0.14
461	-0.17	-0.12	-0.12	-0.13	-0.12
462	-0.15	-0.11	-0.11	-0.12	-0.11
463	-0.14	-0.11	-0.11	-0.11	-0.11
464	-0.14	-0.11	-0.11	-0.11	-0.11
465	-0.15	-0.11	-0.11	-0.11	-0.11
466	-0.16	-0.12	-0.12	-0.12	-0.12
467	-0.18	-0.13	-0.13	-0.14	-0.13
468	-0.20	-0.15	-0.15	-0.15	-0.15
469	-0.23	-0.17	-0.17	-0.18	-0.17
470	-0.27	-0.19	-0.20	-0.20	-0.19

471	-0.27	-0.20	-0.20	-0.21	-0.19
472	-0.25	-0.18	-0.19	-0.19	-0.18
473	-0.22	-0.16	-0.16	-0.17	-0.16
474	-0.19	-0.14	-0.14	-0.15	-0.14
475	-0.17	-0.13	-0.13	-0.13	-0.12
476	-0.15	-0.11	-0.11	-0.12	-0.11
477	-0.14	-0.11	-0.11	-0.11	-0.11
478	-0.14	-0.11	-0.11	-0.11	-0.11
479	-0.15	-0.11	-0.11	-0.11	-0.11
480	-0.16	-0.12	-0.12	-0.12	-0.12
481	-0.18	-0.13	-0.13	-0.14	-0.13
482	-0.21	-0.15	-0.15	-0.16	-0.15
483	-0.24	-0.17	-0.18	-0.18	-0.17
484	-0.27	-0.20	-0.20	-0.21	-0.19
485	-0.28	-0.20	-0.21	-0.21	-0.20
486	-0.26	-0.19	-0.19	-0.20	-0.18
487	-0.22	-0.16	-0.17	-0.17	-0.16
488	-0.19	-0.14	-0.14	-0.15	-0.14
489	-0.17	-0.13	-0.13	-0.13	-0.13
490	-0.15	-0.12	-0.12	-0.12	-0.12
491	-0.14	-0.11	-0.11	-0.11	-0.11
492	-0.14	-0.11	-0.11	-0.11	-0.11
493	-0.15	-0.11	-0.11	-0.11	-0.11
494	-0.16	-0.12	-0.12	-0.12	-0.12
495	-0.18	-0.14	-0.14	-0.14	-0.13
496	-0.21	-0.15	-0.16	-0.16	-0.15
497	-0.25	-0.18	-0.18	-0.19	-0.17
498	-0.28	-0.20	-0.21	-0.21	-0.20
499	-0.29	-0.21	-0.22	-0.22	-0.21
500	-0.27	-0.19	-0.20	-0.20	-0.19
501	-0.23	-0.17	-0.17	-0.17	-0.16
502	-0.20	-0.14	-0.14	-0.15	-0.14
503	-0.17	-0.13	-0.13	-0.13	-0.13
504	-0.15	-0.12	-0.12	-0.12	-0.12
505	-0.14	-0.11	-0.11	-0.11	-0.11
506	-0.14	-0.11	-0.11	-0.11	-0.11
507	-0.15	-0.11	-0.11	-0.11	-0.11
508	-0.16	-0.12	-0.12	-0.12	-0.12
509	-0.19	-0.14	-0.14	-0.14	-0.14
510	-0.22	-0.16	-0.16	-0.16	-0.16
511	-0.25	-0.18	-0.18	-0.19	-0.18
512	-0.29	-0.21	-0.22	-0.22	-0.21
513	-0.20	-0.16	-0.16	-0.16	-0.15
514	-0.27	-0.20	-0.20	-0.21	-0.19
515	-0.23	-0.17	-0.17	-0.18	-0.17
516	-0.20	-0.14	-0.15	-0.15	-0.14
517	-0.17	-0.13	-0.13	-0.13	-0.13
518	-0.15	-0.12	-0.12	-0.12	-0.12
519	-0.14	-0.11	-0.11	-0.11	-0.11
520	-0.14	-0.11	-0.11	-0.11	-0.11
521	-0.15	-0.11	-0.11	-0.11	-0.11
522	-0.16	-0.12	-0.12	-0.12	-0.12
523	-0.18	-0.14	-0.14	-0.14	-0.14
524	-0.22	-0.16	-0.16	-0.16	-0.16
525	-0.25	-0.18	-0.19	-0.19	-0.18
526	-0.23	-0.18	-0.18	-0.18	-0.17
527	-0.27	-0.20	-0.20	-0.20	-0.19
528	-0.27	-0.21	-0.21	-0.21	-0.20
529	-0.25	-0.19	-0.20	-0.19	-0.18
530	-0.22	-0.17	-0.17	-0.17	-0.16
531	-0.19	-0.15	-0.15	-0.14	-0.14
532	-0.17	-0.13	-0.13	-0.13	-0.13
533	-0.15	-0.12	-0.12	-0.12	-0.11
534	-0.14	-0.11	-0.12	-0.11	-0.11
535	-0.14	-0.11	-0.11	-0.11	-0.11
536	-0.15	-0.12	-0.12	-0.11	-0.11
537	-0.16	-0.13	-0.13	-0.12	-0.12
538	-0.18	-0.14	-0.14	-0.14	-0.13
539	-0.29	-0.21	-0.22	-0.22	-0.20
540	-0.27	-0.19	-0.20	-0.20	-0.19
541	-0.23	-0.16	-0.17	-0.17	-0.16
542	-0.19	-0.14	-0.14	-0.15	-0.14
543	-0.17	-0.13	-0.13	-0.13	-0.13
544	-0.15	-0.11	-0.11	-0.12	-0.11
545	-0.14	-0.11	-0.11	-0.11	-0.11
546	-0.14	-0.11	-0.11	-0.11	-0.11

547	-0.15	-0.11	-0.11	-0.11	-0.11
548	-0.16	-0.12	-0.12	-0.12	-0.12
549	-0.18	-0.13	-0.14	-0.14	-0.13
550	-0.21	-0.15	-0.16	-0.16	-0.15
551	-0.25	-0.18	-0.18	-0.19	-0.18
552	-0.29	-0.21	-0.22	-0.22	-0.20
553	-0.28	-0.20	-0.20	-0.21	-0.19
554	-0.25	-0.18	-0.19	-0.19	-0.18
555	-0.22	-0.16	-0.16	-0.17	-0.16
556	-0.19	-0.14	-0.14	-0.14	-0.14
557	-0.16	-0.12	-0.12	-0.13	-0.12
558	-0.15	-0.11	-0.11	-0.11	-0.11
559	-0.14	-0.11	-0.11	-0.11	-0.11
560	-0.14	-0.11	-0.11	-0.11	-0.11
561	-0.14	-0.11	-0.11	-0.11	-0.11
562	-0.16	-0.12	-0.12	-0.12	-0.12
563	-0.18	-0.13	-0.13	-0.14	-0.13
564	-0.21	-0.15	-0.15	-0.16	-0.15
565	-0.24	-0.17	-0.18	-0.18	-0.17
566	-0.28	-0.20	-0.20	-0.21	-0.19
567	-0.26	-0.19	-0.19	-0.20	-0.18
568	-0.24	-0.17	-0.18	-0.18	-0.17
569	-0.21	-0.15	-0.16	-0.16	-0.15
570	-0.18	-0.13	-0.14	-0.14	-0.13
571	-0.16	-0.12	-0.12	-0.12	-0.12
572	-0.14	-0.11	-0.11	-0.11	-0.11
573	-0.14	-0.11	-0.11	-0.10	-0.10
574	-0.14	-0.10	-0.10	-0.10	-0.10
575	-0.14	-0.11	-0.11	-0.11	-0.11
576	-0.15	-0.12	-0.12	-0.12	-0.12
577	-0.17	-0.13	-0.13	-0.13	-0.13
578	-0.20	-0.14	-0.15	-0.15	-0.14
579	-0.23	-0.17	-0.17	-0.17	-0.16
580	-0.26	-0.19	-0.19	-0.20	-0.18
581	-0.24	-0.18	-0.18	-0.18	-0.17
582	-0.23	-0.17	-0.17	-0.17	-0.16
583	-0.20	-0.15	-0.15	-0.15	-0.14
584	-0.17	-0.13	-0.13	-0.13	-0.13
585	-0.15	-0.12	-0.12	-0.12	-0.12
586	-0.14	-0.11	-0.11	-0.11	-0.11
587	-0.13	-0.10	-0.10	-0.10	-0.10
588	-0.13	-0.10	-0.10	-0.10	-0.10
589	-0.14	-0.11	-0.11	-0.11	-0.11
590	-0.15	-0.11	-0.11	-0.11	-0.11
591	-0.17	-0.12	-0.13	-0.13	-0.12
592	-0.19	-0.14	-0.14	-0.14	-0.14
593	-0.21	-0.16	-0.16	-0.16	-0.15
594	-0.24	-0.18	-0.18	-0.18	-0.17
595	-0.23	-0.17	-0.17	-0.18	-0.17
596	-0.22	-0.16	-0.16	-0.17	-0.16
597	-0.19	-0.14	-0.14	-0.15	-0.14
598	-0.17	-0.13	-0.13	-0.13	-0.13
599	-0.15	-0.11	-0.12	-0.12	-0.11
600	-0.14	-0.11	-0.11	-0.11	-0.11
601	-0.13	-0.10	-0.10	-0.10	-0.10
602	-0.13	-0.10	-0.10	-0.10	-0.10
603	-0.14	-0.10	-0.10	-0.10	-0.10
604	-0.15	-0.11	-0.11	-0.11	-0.11
605	-0.16	-0.12	-0.12	-0.12	-0.12
606	-0.18	-0.14	-0.14	-0.14	-0.13
607	-0.21	-0.15	-0.15	-0.16	-0.15
608	-0.23	-0.17	-0.17	-0.18	-0.17
609	-0.23	-0.17	-0.17	-0.17	-0.16
610	-0.21	-0.16	-0.16	-0.16	-0.15
611	-0.19	-0.14	-0.14	-0.14	-0.14
612	-0.17	-0.13	-0.13	-0.13	-0.12
613	-0.15	-0.11	-0.11	-0.11	-0.11
614	-0.14	-0.11	-0.11	-0.11	-0.11
615	-0.13	-0.10	-0.10	-0.10	-0.10
616	-0.13	-0.10	-0.10	-0.10	-0.10
617	-0.13	-0.10	-0.10	-0.10	-0.10
618	-0.14	-0.11	-0.11	-0.11	-0.11
619	-0.16	-0.12	-0.12	-0.12	-0.12
620	-0.18	-0.13	-0.14	-0.14	-0.13
621	-0.20	-0.15	-0.15	-0.15	-0.15
622	-0.23	-0.17	-0.17	-0.17	-0.16

623	-0.23	-0.17	-0.17	-0.18	-0.16
624	-0.21	-0.16	-0.16	-0.16	-0.15
625	-0.19	-0.14	-0.14	-0.14	-0.14
626	-0.17	-0.13	-0.13	-0.13	-0.12
627	-0.15	-0.11	-0.11	-0.12	-0.11
628	-0.14	-0.11	-0.11	-0.11	-0.11
629	-0.13	-0.10	-0.10	-0.10	-0.10
630	-0.13	-0.10	-0.10	-0.10	-0.10
631	-0.13	-0.10	-0.10	-0.10	-0.10
632	-0.14	-0.11	-0.11	-0.11	-0.11
633	-0.16	-0.12	-0.12	-0.12	-0.12
634	-0.18	-0.13	-0.14	-0.14	-0.13
635	-0.20	-0.15	-0.15	-0.16	-0.15
636	-0.23	-0.17	-0.17	-0.18	-0.16
637	-0.24	-0.17	-0.18	-0.18	-0.17
638	-0.22	-0.16	-0.17	-0.17	-0.16
639	-0.20	-0.14	-0.15	-0.15	-0.14
640	-0.17	-0.13	-0.13	-0.13	-0.13
641	-0.15	-0.12	-0.12	-0.12	-0.12
642	-0.14	-0.11	-0.11	-0.11	-0.11
643	-0.13	-0.10	-0.10	-0.10	-0.10
644	-0.13	-0.10	-0.10	-0.10	-0.10
645	-0.14	-0.10	-0.11	-0.10	-0.10
646	-0.15	-0.11	-0.11	-0.11	-0.11
647	-0.16	-0.12	-0.12	-0.13	-0.12
648	-0.19	-0.14	-0.14	-0.14	-0.14
649	-0.21	-0.16	-0.16	-0.16	-0.15
650	-0.24	-0.17	-0.18	-0.18	-0.17
651	-0.25	-0.18	-0.19	-0.19	-0.18
652	-0.23	-0.17	-0.17	-0.18	-0.17
653	-0.20	-0.15	-0.15	-0.16	-0.15
654	-0.18	-0.13	-0.13	-0.14	-0.13
655	-0.16	-0.12	-0.12	-0.12	-0.12
656	-0.14	-0.11	-0.11	-0.11	-0.11
657	-0.14	-0.10	-0.10	-0.10	-0.10
658	-0.13	-0.10	-0.10	-0.10	-0.10
659	-0.14	-0.11	-0.11	-0.11	-0.11
660	-0.15	-0.11	-0.12	-0.12	-0.11
661	-0.17	-0.13	-0.13	-0.13	-0.13
662	-0.19	-0.14	-0.14	-0.15	-0.14
663	-0.22	-0.16	-0.17	-0.17	-0.16
664	-0.25	-0.18	-0.19	-0.19	-0.18
665	-0.27	-0.19	-0.20	-0.20	-0.19
666	-0.25	-0.18	-0.18	-0.19	-0.18
667	-0.21	-0.16	-0.16	-0.16	-0.15
668	-0.19	-0.14	-0.14	-0.14	-0.14
669	-0.16	-0.12	-0.12	-0.12	-0.12
670	-0.15	-0.11	-0.11	-0.11	-0.11
671	-0.14	-0.11	-0.11	-0.11	-0.11
672	-0.14	-0.11	-0.11	-0.11	-0.10
673	-0.14	-0.11	-0.11	-0.11	-0.11
674	-0.16	-0.12	-0.12	-0.12	-0.12
675	-0.18	-0.13	-0.13	-0.13	-0.13
676	-0.20	-0.15	-0.15	-0.15	-0.15
677	-0.23	-0.17	-0.17	-0.18	-0.17
678	-0.27	-0.19	-0.20	-0.20	-0.19
679	-0.29	-0.21	-0.21	-0.22	-0.20
680	-0.26	-0.19	-0.19	-0.20	-0.19
681	-0.22	-0.16	-0.17	-0.17	-0.16
682	-0.19	-0.14	-0.14	-0.15	-0.14
683	-0.17	-0.13	-0.13	-0.13	-0.12
684	-0.15	-0.11	-0.11	-0.12	-0.11
685	-0.14	-0.11	-0.11	-0.11	-0.11
686	-0.14	-0.11	-0.11	-0.11	-0.11
687	-0.15	-0.11	-0.11	-0.11	-0.11
688	-0.16	-0.12	-0.12	-0.12	-0.12
689	-0.18	-0.13	-0.14	-0.14	-0.13
690	-0.21	-0.15	-0.16	-0.16	-0.15
691	-0.25	-0.18	-0.18	-0.19	-0.18
692	-0.29	-0.21	-0.21	-0.22	-0.20
693	-0.24	-0.18	-0.19	-0.18	-0.17
694	-0.27	-0.20	-0.20	-0.21	-0.19
695	-0.23	-0.17	-0.17	-0.18	-0.17
696	-0.20	-0.14	-0.15	-0.15	-0.14
697	-0.17	-0.13	-0.13	-0.13	-0.13
698	-0.15	-0.12	-0.12	-0.12	-0.12

699	-0.14	-0.11	-0.11	-0.11	-0.11
700	-0.14	-0.11	-0.11	-0.11	-0.11
701	-0.15	-0.11	-0.11	-0.11	-0.11
702	-0.16	-0.12	-0.12	-0.12	-0.12
703	-0.19	-0.14	-0.14	-0.14	-0.14
704	-0.22	-0.16	-0.16	-0.16	-0.16
705	-0.26	-0.18	-0.19	-0.19	-0.18
706	-0.27	-0.21	-0.21	-0.21	-0.20
707	-0.25	-0.20	-0.21	-0.19	-0.18
708	-0.22	-0.17	-0.18	-0.17	-0.16
709	-0.19	-0.15	-0.16	-0.14	-0.14
710	-0.17	-0.13	-0.14	-0.13	-0.13
711	-0.15	-0.12	-0.13	-0.11	-0.11
712	-0.14	-0.11	-0.12	-0.11	-0.11
713	-0.14	-0.11	-0.12	-0.11	-0.11
714	-0.15	-0.12	-0.12	-0.11	-0.11
715	-0.16	-0.13	-0.13	-0.12	-0.12
716	-0.18	-0.14	-0.15	-0.14	-0.13
717	-0.21	-0.16	-0.17	-0.16	-0.15
718	-0.24	-0.19	-0.20	-0.18	-0.18
719	-0.30	-0.21	-0.22	-0.23	-0.21
720	-0.27	-0.20	-0.20	-0.21	-0.19
721	-0.23	-0.17	-0.17	-0.18	-0.17
722	-0.20	-0.15	-0.15	-0.15	-0.14
723	-0.17	-0.13	-0.13	-0.13	-0.13
724	-0.15	-0.12	-0.12	-0.12	-0.12
725	-0.14	-0.11	-0.11	-0.11	-0.11
726	-0.14	-0.11	-0.11	-0.11	-0.11
727	-0.15	-0.11	-0.11	-0.11	-0.11
728	-0.16	-0.12	-0.12	-0.13	-0.12
729	-0.19	-0.14	-0.14	-0.14	-0.14
730	-0.22	-0.16	-0.16	-0.17	-0.16
731	-0.26	-0.18	-0.19	-0.19	-0.18
732	-0.30	-0.21	-0.22	-0.23	-0.21
733	-0.29	-0.21	-0.21	-0.22	-0.20
734	-0.27	-0.19	-0.20	-0.20	-0.19
735	-0.23	-0.17	-0.17	-0.17	-0.16
736	-0.20	-0.14	-0.15	-0.15	-0.14
737	-0.17	-0.13	-0.13	-0.13	-0.13
738	-0.15	-0.12	-0.12	-0.12	-0.12
739	-0.15	-0.11	-0.11	-0.11	-0.11
740	-0.14	-0.11	-0.11	-0.11	-0.11
741	-0.15	-0.11	-0.11	-0.12	-0.11
742	-0.16	-0.12	-0.12	-0.13	-0.12
743	-0.19	-0.14	-0.14	-0.14	-0.14
744	-0.22	-0.16	-0.16	-0.16	-0.16
745	-0.25	-0.18	-0.18	-0.19	-0.18
746	-0.29	-0.21	-0.21	-0.22	-0.20
747	-0.28	-0.20	-0.21	-0.21	-0.20
748	-0.26	-0.19	-0.19	-0.20	-0.18
749	-0.22	-0.16	-0.17	-0.17	-0.16
750	-0.19	-0.14	-0.14	-0.15	-0.14
751	-0.17	-0.13	-0.13	-0.13	-0.13
752	-0.15	-0.12	-0.12	-0.12	-0.12
753	-0.14	-0.11	-0.11	-0.11	-0.11
754	-0.14	-0.11	-0.11	-0.11	-0.11
755	-0.15	-0.11	-0.11	-0.11	-0.11
756	-0.16	-0.12	-0.12	-0.12	-0.12
757	-0.18	-0.14	-0.14	-0.14	-0.14
758	-0.21	-0.15	-0.16	-0.16	-0.15
759	-0.24	-0.18	-0.18	-0.19	-0.17
760	-0.28	-0.20	-0.21	-0.21	-0.20
761	-0.27	-0.20	-0.20	-0.21	-0.19
762	-0.25	-0.18	-0.19	-0.19	-0.18
763	-0.22	-0.16	-0.16	-0.17	-0.16
764	-0.19	-0.14	-0.14	-0.15	-0.14
765	-0.17	-0.13	-0.13	-0.13	-0.13
766	-0.15	-0.12	-0.12	-0.12	-0.12
767	-0.14	-0.11	-0.11	-0.11	-0.11
768	-0.14	-0.11	-0.11	-0.11	-0.11
769	-0.15	-0.11	-0.11	-0.11	-0.11
770	-0.16	-0.12	-0.12	-0.12	-0.12
771	-0.18	-0.14	-0.14	-0.14	-0.13
772	-0.21	-0.15	-0.16	-0.16	-0.15
773	-0.24	-0.17	-0.18	-0.18	-0.17
774	-0.27	-0.20	-0.20	-0.21	-0.19

775	-0.27	-0.20	-0.20	-0.21	-0.19
776	-0.25	-0.18	-0.19	-0.19	-0.18
777	-0.22	-0.16	-0.16	-0.17	-0.16
778	-0.19	-0.14	-0.14	-0.15	-0.14
779	-0.17	-0.13	-0.13	-0.13	-0.13
780	-0.15	-0.12	-0.12	-0.12	-0.11
781	-0.14	-0.11	-0.11	-0.11	-0.11
782	-0.14	-0.11	-0.11	-0.11	-0.11
783	-0.15	-0.11	-0.11	-0.11	-0.11
784	-0.16	-0.12	-0.12	-0.12	-0.12
785	-0.18	-0.13	-0.14	-0.14	-0.13
786	-0.21	-0.15	-0.15	-0.16	-0.15
787	-0.24	-0.17	-0.18	-0.18	-0.17
788	-0.27	-0.20	-0.20	-0.21	-0.19
789	-0.27	-0.20	-0.20	-0.21	-0.19
790	-0.25	-0.18	-0.19	-0.19	-0.18
791	-0.22	-0.16	-0.16	-0.17	-0.16
792	-0.19	-0.14	-0.14	-0.15	-0.14
793	-0.17	-0.13	-0.13	-0.13	-0.12
794	-0.15	-0.12	-0.12	-0.12	-0.11
795	-0.14	-0.11	-0.11	-0.11	-0.11
796	-0.14	-0.11	-0.11	-0.11	-0.11
797	-0.15	-0.11	-0.11	-0.11	-0.11
798	-0.16	-0.12	-0.12	-0.12	-0.12
799	-0.18	-0.13	-0.14	-0.14	-0.13
800	-0.21	-0.15	-0.15	-0.16	-0.15
801	-0.24	-0.17	-0.18	-0.18	-0.17
802	-0.27	-0.20	-0.20	-0.21	-0.19
803	-0.28	-0.20	-0.21	-0.21	-0.20
804	-0.26	-0.19	-0.19	-0.19	-0.18
805	-0.22	-0.16	-0.16	-0.17	-0.16
806	-0.19	-0.14	-0.14	-0.15	-0.14
807	-0.17	-0.13	-0.13	-0.13	-0.13
808	-0.15	-0.12	-0.12	-0.12	-0.11
809	-0.14	-0.11	-0.11	-0.11	-0.11
810	-0.14	-0.11	-0.11	-0.11	-0.11
811	-0.15	-0.11	-0.11	-0.11	-0.11
812	-0.16	-0.12	-0.12	-0.12	-0.12
813	-0.18	-0.13	-0.14	-0.14	-0.13
814	-0.21	-0.15	-0.16	-0.16	-0.15
815	-0.24	-0.18	-0.18	-0.18	-0.17
816	-0.28	-0.20	-0.21	-0.21	-0.20
817	-0.28	-0.20	-0.21	-0.21	-0.20
818	-0.26	-0.19	-0.19	-0.20	-0.18
819	-0.22	-0.16	-0.17	-0.17	-0.16
820	-0.19	-0.14	-0.14	-0.15	-0.14
821	-0.17	-0.13	-0.13	-0.13	-0.13
822	-0.15	-0.12	-0.12	-0.12	-0.11
823	-0.14	-0.11	-0.11	-0.11	-0.11
824	-0.14	-0.11	-0.11	-0.11	-0.11
825	-0.15	-0.11	-0.11	-0.11	-0.11
826	-0.16	-0.12	-0.12	-0.12	-0.12
827	-0.18	-0.14	-0.14	-0.14	-0.13
828	-0.21	-0.15	-0.16	-0.16	-0.15
829	-0.24	-0.18	-0.18	-0.19	-0.17
830	-0.28	-0.20	-0.21	-0.21	-0.20
831	-0.26	-0.19	-0.19	-0.20	-0.19
832	-0.22	-0.16	-0.17	-0.17	-0.16
833	-0.19	-0.14	-0.14	-0.15	-0.14
834	-0.17	-0.13	-0.13	-0.13	-0.13
835	-0.15	-0.12	-0.12	-0.12	-0.11
836	-0.14	-0.11	-0.11	-0.11	-0.11
837	-0.14	-0.11	-0.11	-0.11	-0.11
838	-0.15	-0.11	-0.11	-0.11	-0.11
839	-0.16	-0.12	-0.12	-0.12	-0.12
840	-0.18	-0.14	-0.14	-0.14	-0.13
841	-0.21	-0.15	-0.16	-0.16	-0.15
842	-0.24	-0.18	-0.18	-0.19	-0.18
843	-0.28	-0.21	-0.21	-0.22	-0.20
844	-0.26	-0.19	-0.19	-0.20	-0.19
845	-0.22	-0.16	-0.16	-0.17	-0.16
846	-0.19	-0.14	-0.14	-0.15	-0.14
847	-0.17	-0.13	-0.13	-0.13	-0.13
848	-0.15	-0.12	-0.12	-0.12	-0.11
849	-0.14	-0.11	-0.11	-0.11	-0.11
850	-0.14	-0.11	-0.11	-0.11	-0.11

851	-0.15	-0.11	-0.11	-0.11	-0.11
852	-0.16	-0.12	-0.12	-0.12	-0.12
853	-0.18	-0.14	-0.14	-0.14	-0.13
854	-0.21	-0.15	-0.16	-0.16	-0.15
855	-0.24	-0.18	-0.18	-0.19	-0.18
856	-0.28	-0.20	-0.21	-0.22	-0.20
857	-0.28	-0.20	-0.21	-0.21	-0.20
858	-0.26	-0.19	-0.19	-0.19	-0.18
859	-0.22	-0.16	-0.16	-0.17	-0.16
860	-0.19	-0.14	-0.14	-0.15	-0.14
861	-0.17	-0.13	-0.13	-0.13	-0.13
862	-0.15	-0.11	-0.12	-0.12	-0.11
863	-0.14	-0.11	-0.11	-0.11	-0.11
864	-0.14	-0.11	-0.11	-0.11	-0.11
865	-0.15	-0.11	-0.11	-0.11	-0.11
866	-0.16	-0.12	-0.12	-0.12	-0.12
867	-0.18	-0.13	-0.14	-0.14	-0.13
868	-0.21	-0.15	-0.15	-0.16	-0.15
869	-0.24	-0.18	-0.18	-0.18	-0.17
870	-0.28	-0.20	-0.21	-0.21	-0.20
871	-0.27	-0.20	-0.20	-0.21	-0.19
872	-0.25	-0.18	-0.19	-0.19	-0.18
873	-0.22	-0.16	-0.16	-0.17	-0.16
874	-0.19	-0.14	-0.14	-0.14	-0.14
875	-0.17	-0.13	-0.13	-0.13	-0.13
876	-0.15	-0.11	-0.12	-0.12	-0.11
877	-0.14	-0.11	-0.11	-0.11	-0.11
878	-0.14	-0.11	-0.11	-0.11	-0.11
879	-0.15	-0.11	-0.11	-0.11	-0.11
880	-0.16	-0.12	-0.12	-0.12	-0.12
881	-0.18	-0.13	-0.14	-0.14	-0.13
882	-0.21	-0.15	-0.15	-0.16	-0.15
883	-0.24	-0.17	-0.18	-0.18	-0.17
884	-0.27	-0.20	-0.20	-0.21	-0.19
885	-0.27	-0.20	-0.20	-0.20	-0.19
886	-0.25	-0.18	-0.19	-0.19	-0.18
887	-0.22	-0.16	-0.16	-0.16	-0.16
888	-0.19	-0.14	-0.14	-0.14	-0.14
889	-0.17	-0.13	-0.13	-0.13	-0.12
890	-0.15	-0.12	-0.12	-0.12	-0.11
891	-0.14	-0.11	-0.11	-0.11	-0.11
892	-0.14	-0.11	-0.11	-0.11	-0.11
893	-0.15	-0.11	-0.11	-0.11	-0.11
894	-0.16	-0.12	-0.12	-0.12	-0.12
895	-0.18	-0.14	-0.14	-0.14	-0.13
896	-0.20	-0.15	-0.15	-0.16	-0.15
897	-0.23	-0.17	-0.18	-0.18	-0.17
898	-0.27	-0.20	-0.20	-0.20	-0.19
899	-0.27	-0.20	-0.20	-0.20	-0.19
900	-0.25	-0.18	-0.19	-0.19	-0.18
901	-0.22	-0.16	-0.17	-0.16	-0.16
902	-0.19	-0.14	-0.15	-0.14	-0.14
903	-0.17	-0.13	-0.13	-0.13	-0.13
904	-0.15	-0.12	-0.12	-0.12	-0.11
905	-0.14	-0.11	-0.11	-0.11	-0.11
906	-0.14	-0.11	-0.11	-0.11	-0.11
907	-0.15	-0.11	-0.12	-0.11	-0.11
908	-0.16	-0.12	-0.13	-0.12	-0.12
909	-0.26	-0.18	-0.19	-0.19	-0.18
910	-0.30	-0.21	-0.22	-0.23	-0.21
911	-0.33	-0.24	-0.25	-0.25	-0.23
912	-0.33	-0.24	-0.25	-0.25	-0.23
913	-0.34	-0.24	-0.25	-0.26	-0.24
914	-0.34	-0.25	-0.25	-0.26	-0.24
915	-0.32	-0.23	-0.24	-0.24	-0.23
916	-0.31	-0.24	-0.25	-0.24	-0.22
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919	-0.26	-0.19	-0.20	-0.20	-0.19
920	-0.25	-0.19	-0.19	-0.19	-0.18
921	-0.25	-0.18	-0.19	-0.19	-0.18
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923	-0.27	-0.19	-0.20	-0.20	-0.19
924	-0.29	-0.21	-0.21	-0.22	-0.20
925	-0.32	-0.23	-0.23	-0.24	-0.22
926	-0.36	-0.26	-0.27	-0.27	-0.25

927	-0.32	-0.25	-0.26	-0.24	-0.23
928	-0.36	-0.26	-0.27	-0.27	-0.25
929	-0.34	-0.24	-0.25	-0.26	-0.23
930	-0.32	-0.23	-0.23	-0.24	-0.22
931	-0.29	-0.21	-0.22	-0.22	-0.20
932	-0.27	-0.20	-0.20	-0.21	-0.19
933	-0.26	-0.19	-0.20	-0.20	-0.19
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937	-0.30	-0.21	-0.22	-0.22	-0.21
938	-0.32	-0.23	-0.23	-0.24	-0.22
939	-0.33	-0.24	-0.24	-0.25	-0.23
940	-0.33	-0.24	-0.24	-0.25	-0.23
941	-0.32	-0.23	-0.24	-0.24	-0.22
942	-0.31	-0.22	-0.23	-0.23	-0.22
943	-0.30	-0.21	-0.22	-0.23	-0.21
944	-0.30	-0.21	-0.22	-0.22	-0.21
945	-0.30	-0.21	-0.22	-0.23	-0.21
946	-0.31	-0.22	-0.23	-0.23	-0.21
947	-0.32	-0.23	-0.24	-0.24	-0.22
948	-0.33	-0.24	-0.25	-0.25	-0.23
949	-0.30	-0.22	-0.23	-0.23	-0.21
950	-0.33	-0.24	-0.25	-0.25	-0.23
951	-0.31	-0.23	-0.23	-0.24	-0.22
952	-0.29	-0.21	-0.22	-0.22	-0.20
953	-0.27	-0.20	-0.20	-0.21	-0.19
954	-0.26	-0.19	-0.19	-0.20	-0.18
955	-0.25	-0.18	-0.19	-0.19	-0.18
956	-0.26	-0.19	-0.19	-0.19	-0.18
957	-0.27	-0.19	-0.20	-0.20	-0.19
958	-0.28	-0.20	-0.21	-0.21	-0.20
959	-0.30	-0.22	-0.23	-0.23	-0.21
960	-0.33	-0.23	-0.24	-0.25	-0.23
961	-0.31	-0.23	-0.24	-0.23	-0.22
962	-0.34	-0.24	-0.25	-0.26	-0.24
963	-0.33	-0.24	-0.24	-0.25	-0.23
964	-0.32	-0.23	-0.23	-0.24	-0.22
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967	-0.31	-0.22	-0.23	-0.23	-0.22
968	-0.31	-0.23	-0.23	-0.24	-0.22
969	-0.32	-0.23	-0.24	-0.24	-0.22
970	-0.32	-0.23	-0.24	-0.24	-0.23
971	-0.31	-0.23	-0.23	-0.24	-0.22
972	-0.31	-0.22	-0.23	-0.23	-0.22
973	-0.30	-0.22	-0.23	-0.23	-0.21
974	-0.34	-0.24	-0.25	-0.26	-0.24
975	-0.33	-0.25	-0.25	-0.25	-0.23
976	-0.32	-0.23	-0.24	-0.24	-0.23
977	-0.34	-0.25	-0.25	-0.26	-0.24
978	-0.33	-0.24	-0.25	-0.25	-0.23
979	-0.36	-0.26	-0.27	-0.27	-0.25
980	-0.34	-0.24	-0.25	-0.26	-0.24
981	-0.31	-0.24	-0.25	-0.24	-0.22
982	-0.31	-0.23	-0.23	-0.23	-0.22
983	-0.28	-0.21	-0.21	-0.22	-0.20
984	-0.26	-0.19	-0.20	-0.20	-0.19
985	-0.25	-0.19	-0.19	-0.19	-0.18
986	-0.25	-0.18	-0.19	-0.19	-0.18
987	-0.26	-0.19	-0.19	-0.19	-0.18
988	-0.27	-0.20	-0.20	-0.20	-0.19
989	-0.29	-0.21	-0.22	-0.22	-0.20
990	-0.32	-0.23	-0.23	-0.24	-0.22
991	-0.34	-0.24	-0.25	-0.26	-0.24
992	-0.36	-0.26	-0.27	-0.27	-0.25
993	-0.36	-0.26	-0.27	-0.27	-0.25
994	-0.34	-0.24	-0.25	-0.26	-0.23
995	-0.32	-0.23	-0.23	-0.24	-0.22
996	-0.29	-0.21	-0.22	-0.22	-0.20
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1000	-0.27	-0.19	-0.20	-0.20	-0.19
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1002	-0.30	-0.21	-0.22	-0.22	-0.21

1003	-0.32	-0.23	-0.23	-0.24	-0.22
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1006	-0.32	-0.23	-0.24	-0.24	-0.22
1007	-0.31	-0.22	-0.23	-0.23	-0.22
1008	-0.30	-0.21	-0.22	-0.23	-0.21
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1016	-0.31	-0.23	-0.23	-0.24	-0.22
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1021	-0.26	-0.19	-0.19	-0.19	-0.18
1022	-0.27	-0.19	-0.20	-0.20	-0.19
1023	-0.28	-0.21	-0.21	-0.21	-0.20
1024	-0.30	-0.22	-0.23	-0.23	-0.21
1025	-0.33	-0.23	-0.24	-0.25	-0.23
1026	-0.34	-0.24	-0.25	-0.26	-0.24
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1028	-0.32	-0.23	-0.23	-0.24	-0.22
1029	-0.31	-0.22	-0.23	-0.23	-0.22
1030	-0.31	-0.22	-0.23	-0.23	-0.21
1031	-0.31	-0.22	-0.23	-0.23	-0.22
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1036	-0.31	-0.22	-0.23	-0.23	-0.22
1037	-0.30	-0.22	-0.23	-0.23	-0.21
1038	-0.30	-0.22	-0.23	-0.23	-0.22
1039	-0.31	-0.24	-0.25	-0.24	-0.22
1040	-0.31	-0.24	-0.25	-0.24	-0.22
1041	-0.29	-0.22	-0.23	-0.22	-0.21
1042	-0.25	-0.19	-0.20	-0.19	-0.18
1043	-0.22	-0.17	-0.17	-0.16	-0.16
1044	-0.19	-0.15	-0.15	-0.14	-0.14
1045	-0.17	-0.13	-0.14	-0.13	-0.13
1046	-0.16	-0.13	-0.13	-0.12	-0.12
1047	-0.16	-0.13	-0.13	-0.12	-0.12
1048	-0.17	-0.13	-0.13	-0.13	-0.13
1049	-0.18	-0.14	-0.15	-0.14	-0.14
1050	-0.20	-0.16	-0.16	-0.16	-0.15
1051	-0.24	-0.18	-0.19	-0.18	-0.17
1052	-0.27	-0.21	-0.22	-0.21	-0.20
1053	-0.35	-0.26	-0.27	-0.27	-0.25
1054	-0.35	-0.26	-0.27	-0.27	-0.25
1055	-0.28	-0.22	-0.24	-0.21	-0.20
1056	-0.28	-0.22	-0.23	-0.21	-0.20
1057	-0.26	-0.21	-0.22	-0.20	-0.19
1058	-0.22	-0.18	-0.19	-0.17	-0.16
1059	-0.19	-0.15	-0.16	-0.14	-0.14
1060	-0.16	-0.14	-0.14	-0.13	-0.13
1061	-0.15	-0.12	-0.13	-0.11	-0.11
1062	-0.14	-0.12	-0.12	-0.11	-0.11
1063	-0.14	-0.11	-0.12	-0.11	-0.11
1064	-0.14	-0.12	-0.12	-0.11	-0.11
1065	-0.16	-0.13	-0.14	-0.12	-0.12
1066	-0.18	-0.15	-0.15	-0.14	-0.13
1067	-0.21	-0.17	-0.18	-0.16	-0.15
1068	-0.24	-0.19	-0.21	-0.18	-0.18
1069	-0.32	-0.25	-0.26	-0.24	-0.23
1070	-0.36	-0.26	-0.27	-0.27	-0.25

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...
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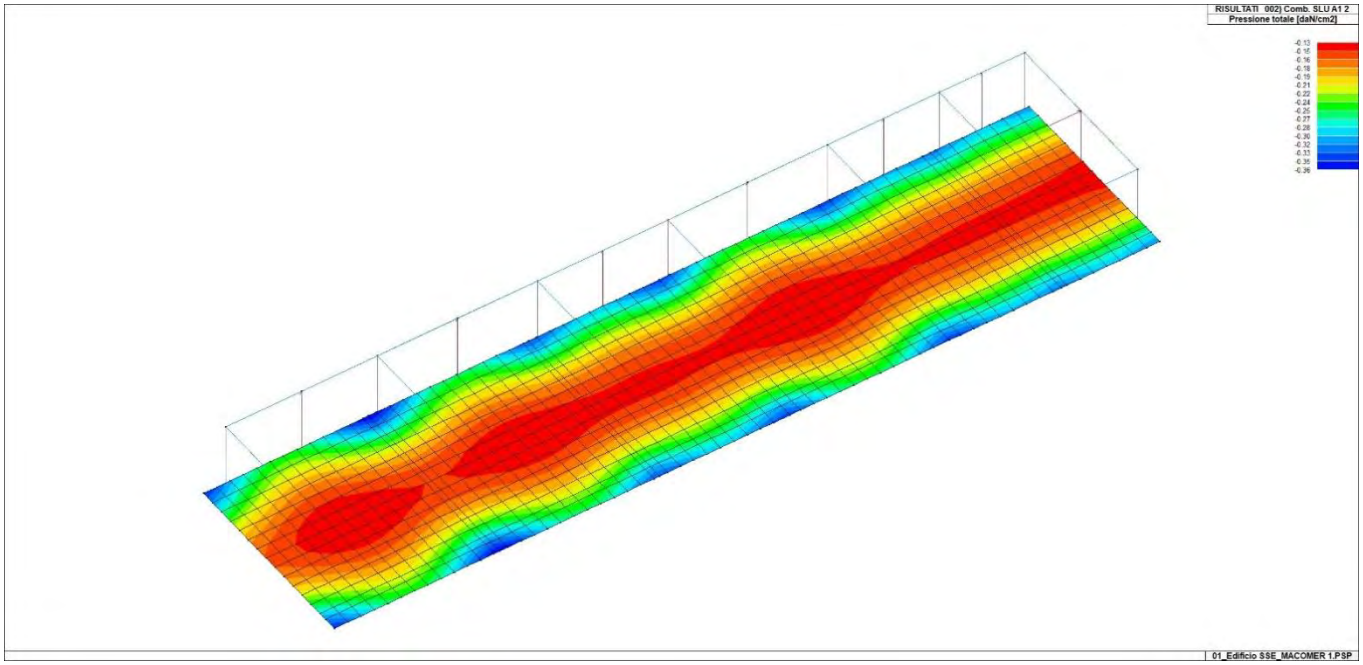
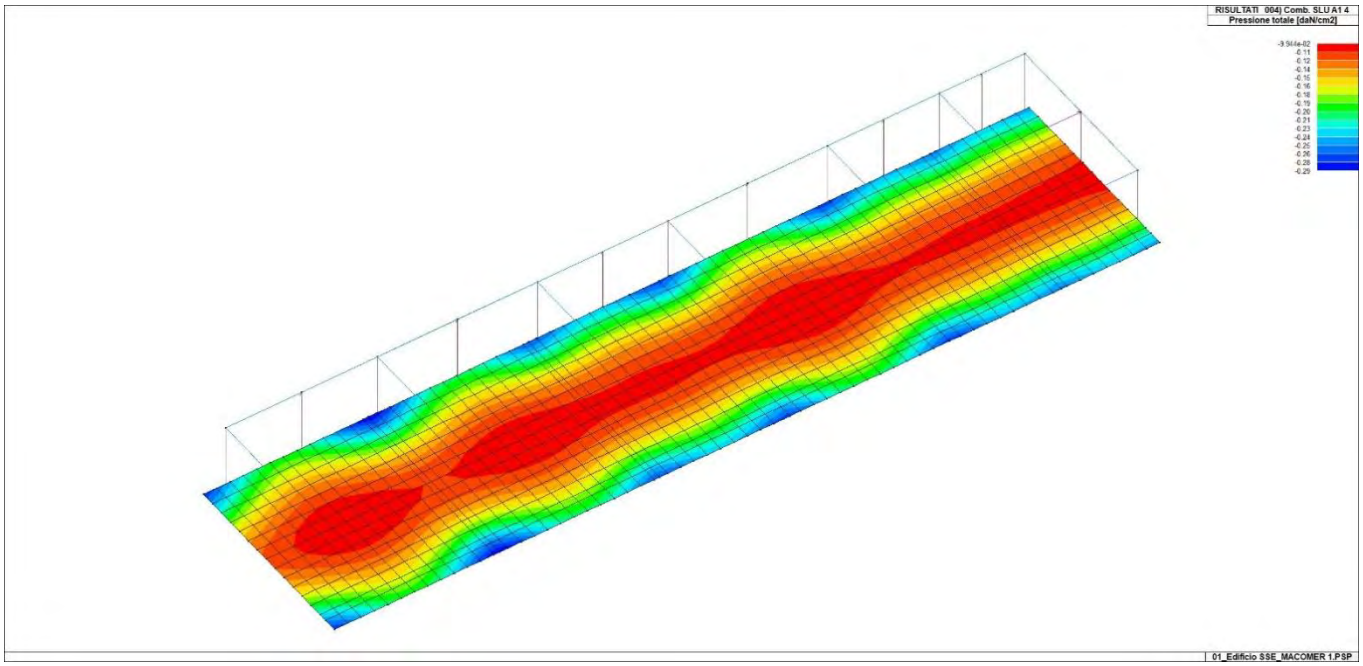
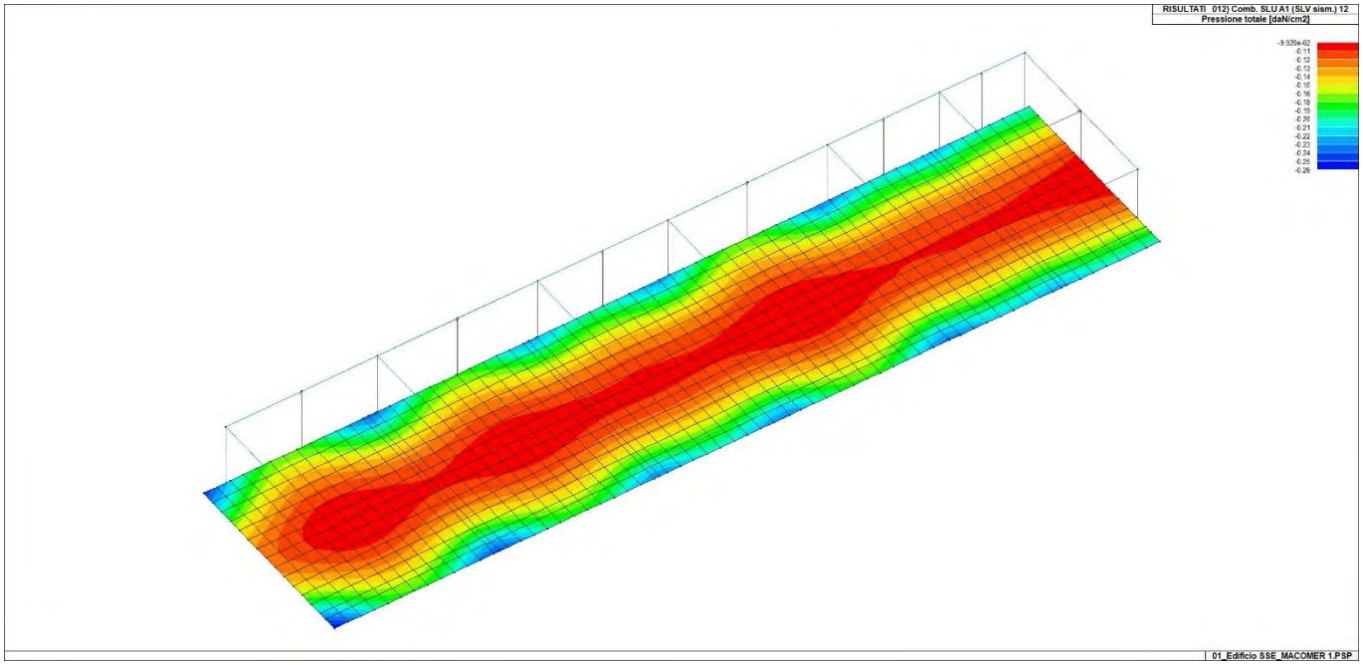
	-0.10			



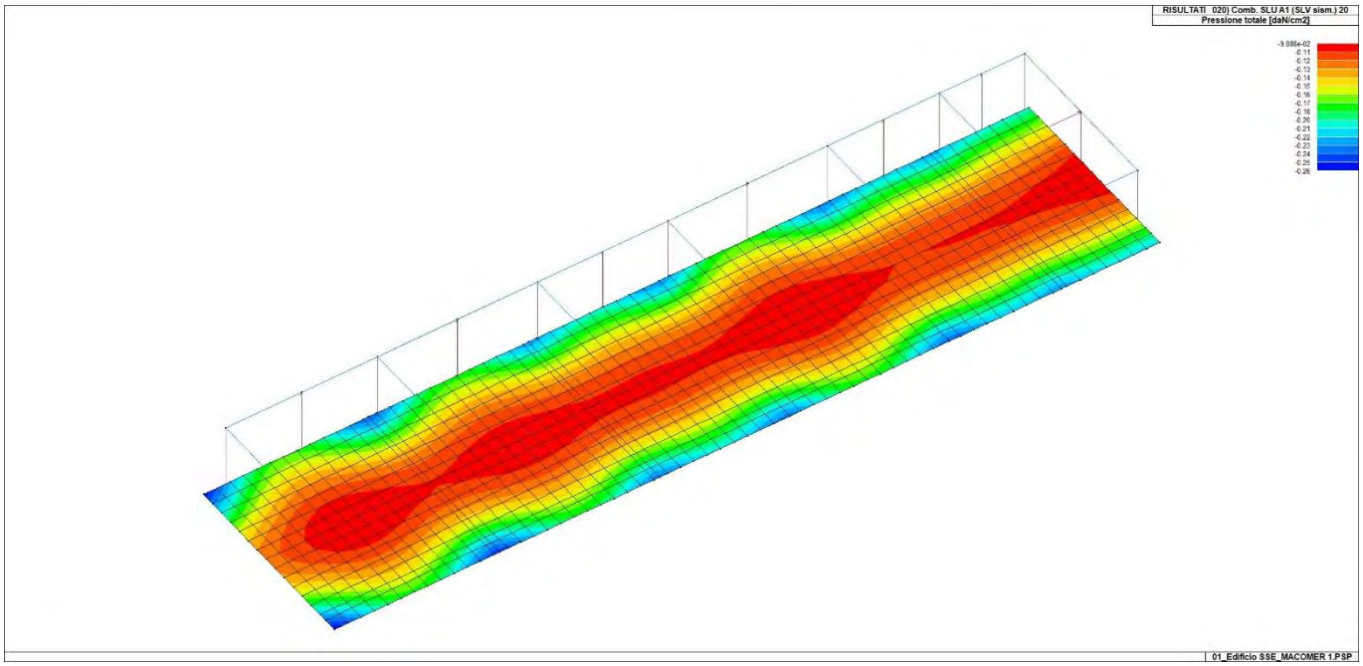
46_RIS_PRESSIONI_002_Comb. SLU A1 2



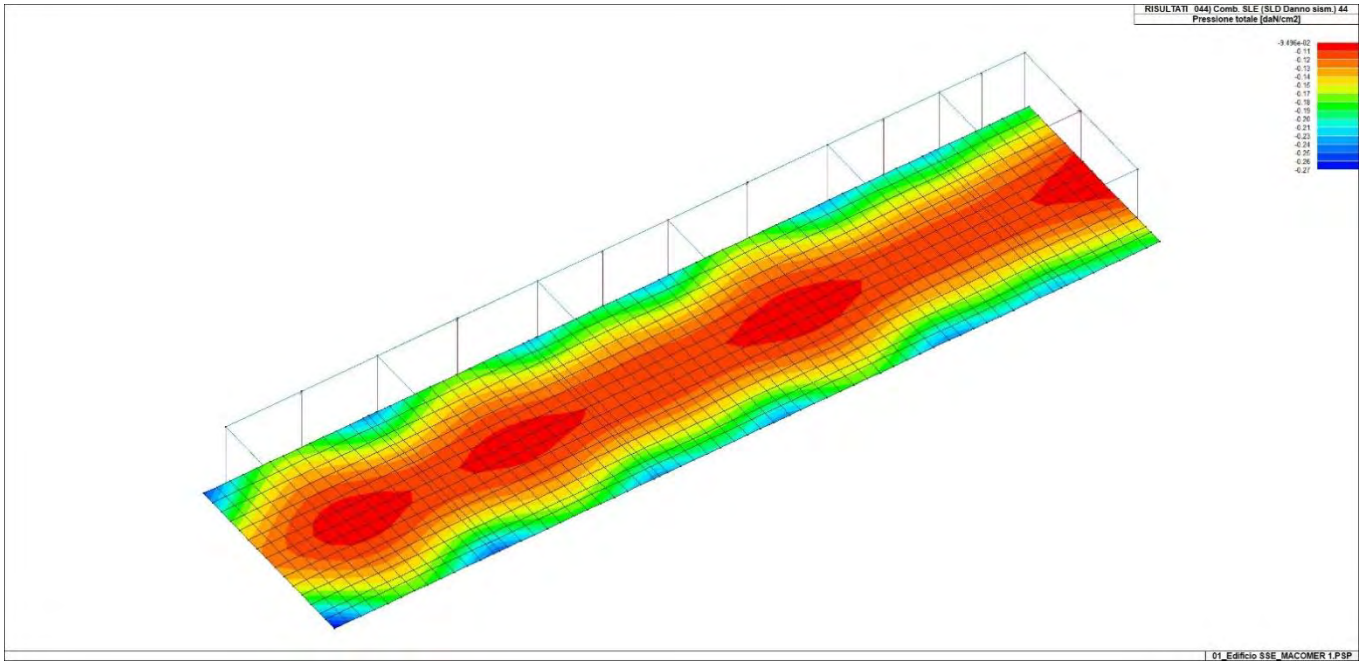
46_RIS_PRESSIONI_004_Comb. SLU A1 4



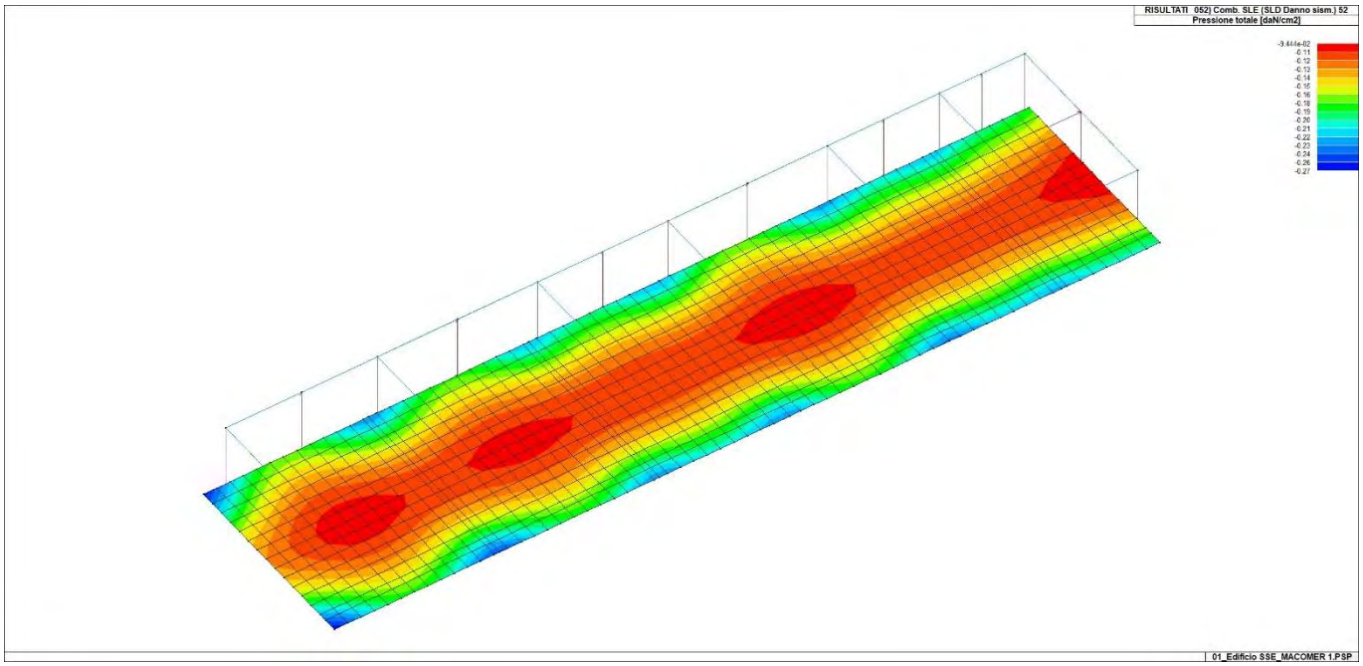
46_RIS_PRESSIONI_012_Comb. SLU A1 (SLV sism.) 12



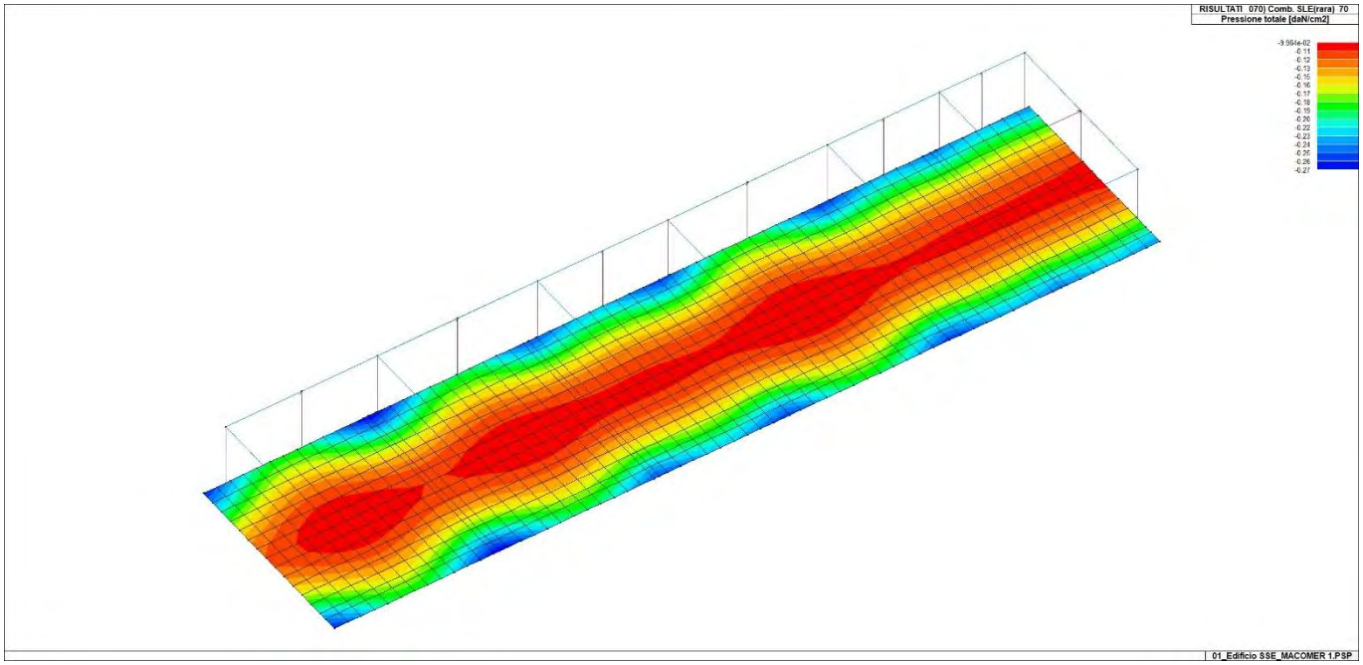
46_RIS_PRESSIONI_020_Comb. SLU A1 (SLV sism.) 20



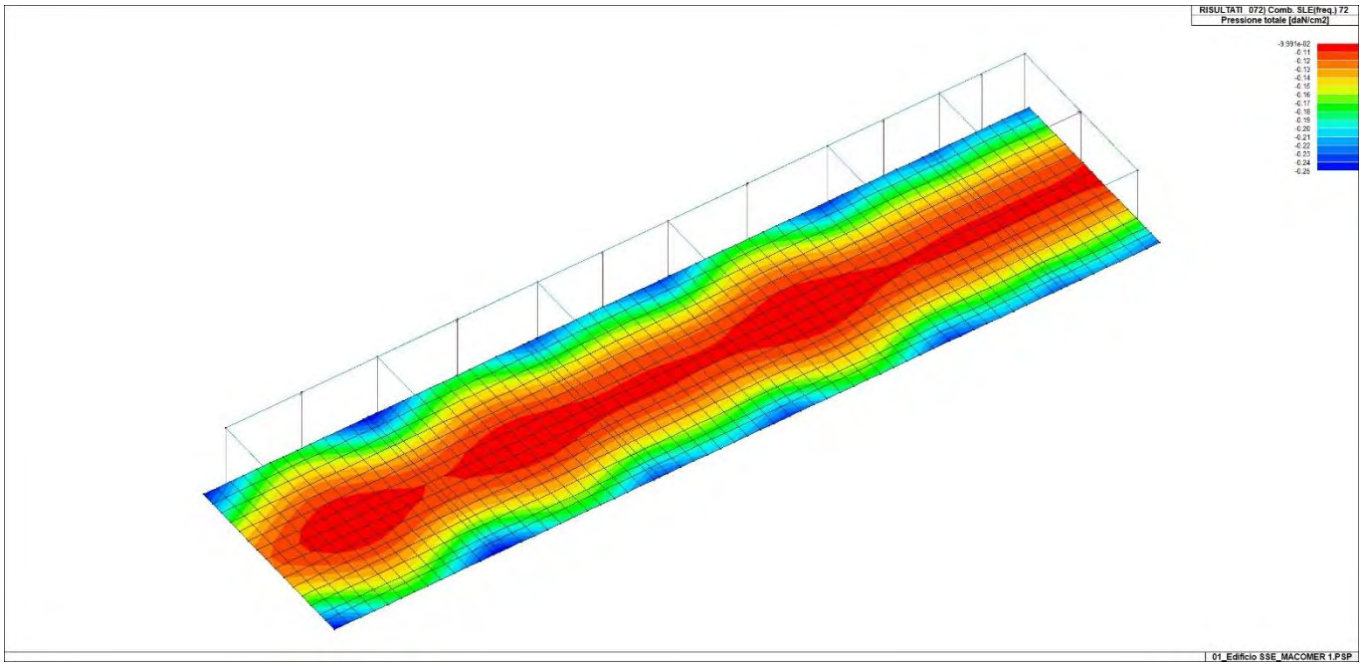
46_RIS_PRESSIONI_044_Comb. SLE (SLD Danno sism.) 44



46_RIS_PRESSIONI_052_Comb. SLE (SLD Danno sism.) 52



46_RIS_PRESSIONI_070_Comb. SLE(rara) 70



46_RIS_PRESSIONI_072_Comb. SLE(freq.) 72

18. RISULTATI ELEMENTI TIPO TRAVE

18.1. LEGENDA RISULTATI ELEMENTI TIPO TRAVE

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo trave, è possibile in relazione alle tabelle sotto riportate.

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:

- tipo **pilastro**
- tipo **trave in elevazione**
- tipo **trave in fondazione**

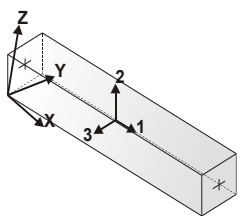
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

Per gli elementi tipo *pilastro* sono riportati in tabella i seguenti valori:

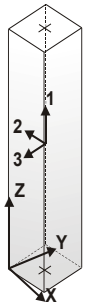
Pilas.	numero dell'elemento pilastro
Cmb	combinazione in cui si verificano i valori riportati
M3 mx/mn	momento flettente in campata M3 max (prima riga) / min (seconda riga)
M2 mx/mn	momento flettente in campata M2 max (prima riga) / min (seconda riga)
D2/D3	freccia massima in direzione 2 (prima riga) / direzione 3 (seconda riga)
Q2/Q3	carico totale in direzione 2 (prima riga) / direzione 3 (seconda riga)
Pos.	ascissa del punto iniziale e finale dell'elemento
N, V2, ecc..	sei componenti di sollecitazione al piede ed in sommità dell'elemento

Per gli elementi tipo *trave in elevazione* sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri.

Per gli elementi tipo *trave in fondazione* (trave f.) sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri e la massima pressione sul terreno.



orientamento elementi 2D non verticali



orientamento elementi 2D verticali

Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
1	2	-1.390e+04	8.841e+04	0.01	0.0	0.0	-6691.43	-87.90	-1480.87	-86.54	8.841e+04	-1.390e+04
		-4.027e+04	-3.558e+05	0.05	0.0	300.0	-5813.93	-87.90	-1480.87	-86.54	-3.558e+05	-4.027e+04
1	3	-8293.49	5.112e+04	6.90e-03	0.0	0.0	-4357.24	-72.49	-881.19	-58.59	5.112e+04	-8293.49
		-3.004e+04	-2.132e+05	0.03	0.0	300.0	-3682.24	-72.49	-881.19	-58.59	-2.132e+05	-3.004e+04
1	7	6.155e+04	3.737e+04	0.06	0.0	0.0	-4513.88	-495.93	-801.06	3135.24	3.737e+04	6.155e+04
		-8.724e+04	-2.029e+05	-0.03	0.0	300.0	-3838.88	-495.93	-801.06	3135.24	-2.029e+05	-8.724e+04
1	9	2.650e+04	4.290e+04	-0.07	0.0	0.0	-4148.67	345.99	-830.89	-1343.75	4.290e+04	-7.729e+04
		-7.729e+04	-2.064e+05	-0.03	0.0	300.0	-3473.67	345.99	-830.89	-1343.75	-2.064e+05	2.650e+04
1	11	6.159e+04	3.036e+04	0.06	0.0	0.0	-4495.99	-495.26	-759.12	3653.36	3.036e+04	6.159e+04
		-8.700e+04	-1.973e+05	-0.04	0.0	300.0	-3820.99	-495.26	-759.12	3653.36	-1.973e+05	-8.700e+04
1	12	6.055e+04	5.943e+04	0.06	0.0	0.0	-4575.64	-490.21	-934.30	1226.67	5.943e+04	6.055e+04
		-8.651e+04	-2.208e+05	0.04	0.0	300.0	-3900.64	-490.21	-934.30	1226.67	-2.208e+05	-8.651e+04
1	30	-1.217e+04	1.015e+05	-0.03	0.0	0.0	-4442.81	62.51	-1185.33	-4852.59	1.015e+05	-3.094e+04
		-3.094e+04	-2.541e+05	0.06	0.0	300.0	-3767.81	62.51	-1185.33	-4852.59	-2.541e+05	-1.217e+04
1	36	3504.77	9.821e+04	0.01	0.0	0.0	-4535.00	-145.34	-1165.29	-2793.48	9.821e+04	3504.77
		-4.008e+04	-2.541e+05	0.06	0.0	300.0	-3860.00	-145.34	-1165.29	-2793.48	-2.541e+05	-4.008e+04
1	39	1.028e+05	2.988e+04	0.10	0.0	0.0	-4603.66	-745.86	-757.20	4885.96	2.988e+04	1.028e+05
		-1.210e+05	-1.972e+05	-0.04	0.0	300.0	-3928.66	-745.86	-757.20	4885.96	-1.972e+05	-1.210e+05
1	41	5.985e+04	3.807e+04	-0.11	0.0	0.0	-4023.05	592.71	-800.53	-1982.65	3.807e+04	-1.180e+05
		-1.180e+05	-2.022e+05	-0.04	0.0	300.0	-3348.05	592.71	-800.53	-1982.65	-2.022e+05	5.985e+04
1	43	1.029e+05	1.818e+04	0.10	0.0	0.0	-4574.68	-744.96	-687.06	5721.24	1.818e+04	1.029e+05
		-1.206e+05	-1.878e+05	-0.05	0.0	300.0	-3899.68	-744.96	-687.06	5721.24	-1.878e+05	-1.206e+05
1	44	1.012e+05	6.427e+04	0.10	0.0	0.0	-4701.27	-736.92	-964.66	1865.58	6.427e+04	1.012e+05
		-1.199e+05	-2.250e+05	0.04	0.0	300.0	-4026.27	-736.92	-964.66	1865.58	-2.250e+05	-1.199e+05
1	62	-1653.32	1.310e+05	-0.04	0.0	0.0	-4490.38	141.94	-1362.29	-7640.22	1.310e+05	-4.426e+04
		-4.426e+04	-2.778e+05	0.08	0.0	300.0	-3815.38	141.94	-1362.29	-7640.22	-2.778e+05	-1653.32
1	68	1.050e+04	1.257e+05	0.02	0.0	0.0	-4636.79	-188.48	-1330.56	-4422.21	1.257e+05	1.050e+04
		-4.602e+04	-2.778e+05	0.08	0.0	300.0	-3961.79	-188.48	-1330.56	-4422.21	-2.778e+05	-4.602e+04
1	69	-8372.35	5.117e+04	6.91e-03	0.0	0.0	-4362.16	-72.11	-882.60	-58.54	5.117e+04	-8372.35
		-3.000e+04	-2.136e+05	0.03	0.0	300.0	-3687.16	-72.11	-882.60	-58.54	-2.136e+05	-3.000e+04
1	70	-1.033e+04	6.573e+04	7.63e-03	0.0	0.0	-5039.30	-68.46	-1103.99	-65.53	6.573e+04	-1.033e+04
		-3.087e+04	-2.655e+05	0.04	0.0	300.0	-4364.30	-68.46	-1103.99	-65.53	-2.655e+05	-3.087e+04
1	71	-8372.35	5.117e+04	6.91e-03	0.0	0.0	-4362.16	-72.11	-882.60	-58.54	5.117e+04	-8372.35
		-3.000e+04	-2.136e+05	0.03	0.0	300.0	-3687.16	-72.11	-882.60	-58.54	-2.136e+05	-3.000e+04
1	72	-8763.89	5.408e+04	7.05e-03	0.0	0.0	-4497.58	-71.38	-926.87	-59.94	5.408e+04	-8763.89
		-3.018e+04	-2.240e+05	0.03	0.0	300.0	-3822.58	-71.38	-926.87	-59.94	-2.240e+05	-3.018e+04
2	2	-1.314e+04	3.558e+05	9.98e-03	0.0	0.0	-6691.59	-91.42	1481.43	6.45	-8.864e+04	-1.314e+04
		-4.056e+04	-8.864e+04	-0.05	0.0	300.0	-5814.09	-91.42	1481.43	6.45	3.558e+05	-4.056e+04
2	3	-7797.97	2.132e+05	6.84e-03	0.0	0.0	-4357.35	-74.78	881.53	6.61	-5.126e+04	-7797.97
		-3.023e+04	-5.126e+04	-0.03	0.0	300.0	-3682.35	-74.78	881.53	6.61	2.132e+05	-3.023e+04
2	16	6.213e+04	2.028e+05	0.06	0.0	0.0	-4512.92	-498.08	801.21	-3262.36	-3.747e+04	6.213e+04
		-8.731e+04	-3.747e+04	0.03	0.0	300.0	-3837.92	-498.08	801.21	-3262.36	2.028e+05	-8.731e+04
2	18	2.624e+04	2.064e+05	-0.07	0.0	0.0	-4149.17	343.92	831.38	1331.67	-4.303e+04	-7.693e+04
		-7.693e+04	-4.303e+04	0.03	0.0	300.0	-3474.17	343.92	831.38	1331.67	2.064e+05	2.624e+04
2	19	6.118e+04	2.207e+05	0.06	0.0	0.0	-4575.37	-492.71	934.49	-1318.43	-5.958e+04	6.118e+04
		-8.663e+04	-5.958e+04	-0.03	0.0	300.0	-3900.37	-492.71	934.49	-1318.43	2.207e+05	-8.663e+04

8.663e+04												
2	20	6.220e+04	1.972e+05	0.06	0.0	0.0	-4495.69	-497.64	759.13	-3746.81	-3.044e+04	6.220e+04
		-8.710e+04	-3.044e+04	0.04	0.0	300.0	-3820.69	-497.64	759.13	-3746.81	1.972e+05	-
8.710e+04												
2	33	-1.241e+04	2.541e+05	-0.03	0.0	0.0	-4443.07	60.06	1186.04	4815.69	-1.018e+05	-
3.045e+04												
		-3.045e+04	-1.018e+05	-0.06	0.0	300.0	-3768.07	60.06	1186.04	4815.69	2.541e+05	-
1.241e+04												
2	48	1.034e+05	1.971e+05	0.10	0.0	0.0	-4601.73	-747.95	757.20	-5055.19	-2.997e+04	1.034e+05
		-1.210e+05	-2.997e+04	0.04	0.0	300.0	-3926.73	-747.95	757.20	-5055.19	1.971e+05	-
1.210e+05												
2	50	5.954e+04	2.022e+05	-0.11	0.0	0.0	-4023.77	590.75	801.10	1996.09	-3.820e+04	-
1.177e+05												
		-1.177e+05	-3.820e+04	0.04	0.0	300.0	-3348.77	590.75	801.10	1996.09	2.022e+05	5.954e+04
2	51	1.019e+05	2.249e+05	0.10	0.0	0.0	-4700.76	-739.55	964.77	-1982.86	-6.442e+04	1.019e+05
		-1.199e+05	-6.442e+04	-0.04	0.0	300.0	-4025.76	-739.55	964.77	-1982.86	2.249e+05	-
1.199e+05												
2	52	1.035e+05	1.877e+05	0.10	0.0	0.0	-4574.15	-747.39	686.88	-5841.89	-1.824e+04	1.035e+05
		-1.207e+05	-1.824e+04	0.05	0.0	300.0	-3899.15	-747.39	686.88	-5841.89	1.877e+05	-
1.207e+05												
2	63	1.103e+04	2.777e+05	0.02	0.0	0.0	-4636.55	-190.76	1331.53	4359.31	-1.261e+05	1.103e+04
		-4.617e+04	-1.261e+05	-0.08	0.0	300.0	-3961.55	-190.76	1331.53	4359.31	2.777e+05	-
4.617e+04												
2	65	-1923.27	2.777e+05	-0.04	0.0	0.0	-4490.73	139.39	1363.22	7614.04	-1.313e+05	-
4.377e+04												
		-4.377e+04	-1.313e+05	-0.08	0.0	300.0	-3815.73	139.39	1363.22	7614.04	2.777e+05	-1923.27
2	69	-7877.51	2.136e+05	6.85e-03	0.0	0.0	-4362.27	-74.40	882.94	6.62	-5.131e+04	-7877.51
		-3.020e+04	-5.131e+04	-0.03	0.0	300.0	-3687.27	-74.40	882.94	6.62	2.136e+05	-
3.020e+04												
2	70	-9755.87	2.654e+05	7.56e-03	0.0	0.0	-5039.42	-71.12	1104.41	5.18	-6.590e+04	-9755.87
		-3.109e+04	-6.590e+04	-0.04	0.0	300.0	-4364.42	-71.12	1104.41	5.18	2.654e+05	-
3.109e+04												
2	71	-7877.51	2.136e+05	6.85e-03	0.0	0.0	-4362.27	-74.40	882.94	6.62	-5.131e+04	-7877.51
		-3.020e+04	-5.131e+04	-0.03	0.0	300.0	-3687.27	-74.40	882.94	6.62	2.136e+05	-
3.020e+04												
2	72	-8253.19	2.239e+05	7.00e-03	0.0	0.0	-4497.70	-73.74	927.23	6.33	-5.423e+04	-8253.19
		-3.038e+04	-5.423e+04	-0.03	0.0	300.0	-3822.70	-73.74	927.23	6.33	2.239e+05	-
3.038e+04												
5	2	3736.18	1.274e+05	1.33e-03	0.0	0.0	-9623.66	16.12	-1951.32	-41.09	1.274e+05	-1100.68
		-1100.68	-4.580e+05	0.06	0.0	300.0	-8746.16	16.12	-1951.32	-41.09	-4.580e+05	3736.18
5	3	1493.49	7.295e+04	4.25e-04	0.0	0.0	-6097.28	5.24	-1142.73	-22.35	7.295e+04	-77.72
		-77.72	-2.699e+05	0.04	0.0	300.0	-5422.28	5.24	-1142.73	-22.35	-2.699e+05	1493.49
5	4	3323.85	1.053e+05	1.21e-03	0.0	0.0	-7774.49	14.80	-1604.14	-34.33	1.053e+05	-1115.45
		-1115.45	-3.759e+05	0.05	0.0	300.0	-7099.49	14.80	-1604.14	-34.33	-3.759e+05	3323.85
5	10	8.045e+04	8.356e+04	-0.06	0.0	0.0	-6026.42	543.10	-1208.44	2045.74	8.356e+04	-
8.248e+04												
		-8.248e+04	-2.790e+05	0.04	0.0	300.0	-5351.42	543.10	-1208.44	2045.74	-2.790e+05	8.045e+04
5	11	8.236e+04	6.249e+04	0.06	0.0	0.0	-6185.52	-532.84	-1080.81	-2090.48	6.249e+04	8.236e+04
		-7.750e+04	-2.617e+05	-0.04	0.0	300.0	-5510.52	-532.84	-1080.81	-2090.48	-2.617e+05	-
7.750e+04												
5	21	2.267e+04	1.707e+04	-0.02	0.0	0.0	-5900.42	149.84	-808.24	-3535.46	1.707e+04	-
2.228e+04												
		-2.228e+04	-2.254e+05	-0.08	0.0	300.0	-5225.42	149.84	-808.24	-3535.46	-2.254e+05	2.267e+04
5	22	2.726e+04	1.292e+05	-0.02	0.0	0.0	-6241.68	180.43	-1482.63	4149.64	1.292e+05	-
2.687e+04												
		-2.687e+04	-3.156e+05	0.07	0.0	300.0	-5566.68	180.43	-1482.63	4149.64	-3.156e+05	2.726e+04
5	24	2.216e+04	1.290e+05	0.02	0.0	0.0	-6311.52	-139.58	-1481.01	3490.72	1.290e+05	2.216e+04
		-1.972e+04	-3.153e+05	0.07	0.0	300.0	-5636.52	-139.58	-1481.01	3490.72	-3.153e+05	-
1.972e+04												
5	28	1.393e+04	1.292e+05	0.01	0.0	0.0	-6301.31	-85.90	-1482.62	3598.54	1.292e+05	1.393e+04
		-1.184e+04	-3.156e+05	0.07	0.0	300.0	-5626.31	-85.90	-1482.62	3598.54	-3.156e+05	-
1.184e+04												
5	42	1.270e+05	8.959e+04	-0.10	0.0	0.0	-5979.49	860.50	-1244.96	3260.27	8.959e+04	-
1.311e+05												
		-1.311e+05	-2.839e+05	0.05	0.0	300.0	-5304.49	860.50	-1244.96	3260.27	-2.839e+05	1.270e+05
5	43	1.310e+05	5.646e+04	0.10	0.0	0.0	-6232.45	-850.24	-1044.30	-3305.01	5.646e+04	1.310e+05
		-1.241e+05	-2.568e+05	-0.04	0.0	300.0	-5557.45	-850.24	-1044.30	-3305.01	-2.568e+05	-
1.241e+05												
5	53	3.518e+04	-1.591e+04	-0.03	0.0	0.0	-5779.73	235.25	-609.99	-5586.89	-1.591e+04	-
3.539e+04												
		-3.539e+04	-1.989e+05	-0.11	0.0	300.0	-5104.73	235.25	-609.99	-5586.89	-1.989e+05	3.518e+04
5	54	4.246e+04	1.623e+05	-0.03	0.0	0.0	-6321.17	283.86	-1681.72	6589.04	1.623e+05	-
4.269e+04												
		-4.269e+04	-3.422e+05	0.09	0.0	300.0	-5646.17	283.86	-1681.72	6589.04	-3.422e+05	4.246e+04
5	56	3.527e+04	1.620e+05	0.03	0.0	0.0	-6432.21	-224.99	-1679.27	5542.15	1.620e+05	3.527e+04
		-3.223e+04	-3.418e+05	0.09	0.0	300.0	-5757.21	-224.99	-1679.27	5542.15	-3.418e+05	-

3.223e+04												
5	60	2.217e+04	1.623e+05	0.02	0.0	0.0	-6415.96	-139.54	-1681.70	5715.57	1.623e+05	2.217e+04
		-1.969e+04	-3.422e+05	0.09	0.0	300.0	-5740.96	-139.54	-1681.70	5715.57	-3.422e+05	-
1.969e+04												
5	69	1477.96	7.302e+04	4.24e-04	0.0	0.0	-6105.97	5.13	-1144.63	-22.37	7.302e+04	-61.16
		-61.16	-2.704e+05	0.04	0.0	300.0	-5430.97	5.13	-1144.63	-22.37	-2.704e+05	1477.96
5	70	2698.20	9.462e+04	9.44e-04	0.0	0.0	-7224.11	11.50	-1452.23	-30.36	9.462e+04	-752.98
		-752.98	-3.411e+05	0.04	0.0	300.0	-6549.11	11.50	-1452.23	-30.36	-3.411e+05	2698.20
5	71	1477.96	7.302e+04	4.24e-04	0.0	0.0	-6105.97	5.13	-1144.63	-22.37	7.302e+04	-61.16
		-61.16	-2.704e+05	0.04	0.0	300.0	-5430.97	5.13	-1144.63	-22.37	-2.704e+05	1477.96
5	72	1722.01	7.734e+04	5.28e-04	0.0	0.0	-6329.60	6.41	-1206.15	-23.97	7.734e+04	-199.53
		-199.53	-2.845e+05	0.04	0.0	300.0	-5654.60	6.41	-1206.15	-23.97	-2.845e+05	1722.01
6	1	1.212e+04	4.877e+05	-1.94e-03	0.0	0.0	-1.029e+04	45.28	2116.55	80.73	-1.473e+05	-1460.81
		-1460.81	-1.473e+05	-0.06	0.0	300.0	-9407.60	45.28	2116.55	80.73	4.877e+05	1.212e+04
6	2	1.161e+04	6.456e+05	2.13e-03	0.0	0.0	-1.264e+04	38.71	2814.65	105.72	-1.987e+05	-3.88
		-3.88	-1.987e+05	-0.08	0.0	300.0	-1.176e+04	38.71	2814.65	105.72	6.456e+05	1.161e+04
6	3	9328.67	3.738e+05	-1.49e-03	0.0	0.0	-7891.09	34.87	1622.78	61.92	-1.130e+05	-1132.13
		-1132.13	-1.130e+05	-0.05	0.0	300.0	-7216.09	34.87	1622.78	61.92	3.738e+05	9328.67
6	17	8.457e+04	3.959e+05	-0.06	0.0	0.0	-7924.59	559.58	1785.26	-1682.76	-1.397e+05	-
8.331e+04												
		-8.331e+04	-1.397e+05	-0.06	0.0	300.0	-7249.59	559.58	1785.26	-1682.76	3.959e+05	8.457e+04
6	29	2.584e+04	4.430e+05	-0.01	0.0	0.0	-8131.83	149.10	2137.40	-3495.98	-1.988e+05	-
1.889e+04												
		-1.889e+04	-1.988e+05	-0.10	0.0	300.0	-7456.83	149.10	2137.40	-3495.98	4.430e+05	2.584e+04
6	33	3.347e+04	4.434e+05	-0.02	0.0	0.0	-8126.88	202.20	2140.72	-3935.00	-1.988e+05	-
2.720e+04												
		-2.720e+04	-1.988e+05	-0.10	0.0	300.0	-7451.88	202.20	2140.72	-3935.00	4.434e+05	3.347e+04
6	34	3.002e+04	3.062e+05	-0.02	0.0	0.0	-7648.60	180.37	1114.16	3699.26	-2.807e+04	-
2.409e+04												
		-2.409e+04	-2.807e+04	0.11	0.0	300.0	-6973.60	180.37	1114.16	3699.26	3.062e+05	3.002e+04
6	35	2.183e+04	4.430e+05	0.02	0.0	0.0	-8156.78	-110.67	2137.43	-3575.21	-1.982e+05	2.183e+04
		-1.137e+04	-1.982e+05	-0.10	0.0	300.0	-7481.78	-110.67	2137.43	-3575.21	4.430e+05	-
1.137e+04												
6	49	1.290e+05	4.085e+05	-0.10	0.0	0.0	-7937.51	869.22	1879.32	-2709.66	-1.553e+05	-
1.318e+05												
		-1.318e+05	-1.553e+05	-0.07	0.0	300.0	-7262.51	869.22	1879.32	-2709.66	4.085e+05	1.290e+05
6	52	1.295e+05	3.407e+05	0.11	0.0	0.0	-7867.87	-799.53	1372.26	2833.70	-7.101e+04	1.295e+05
		-1.103e+05	-7.101e+04	0.07	0.0	300.0	-7192.87	-799.53	1372.26	2833.70	3.407e+05	-
1.103e+05												
6	61	3.556e+04	4.834e+05	-0.02	0.0	0.0	-8266.77	216.34	2439.31	-5595.92	-2.494e+05	-
2.934e+04												
		-2.934e+04	-2.494e+05	-0.13	0.0	300.0	-7591.77	216.34	2439.31	-5595.92	4.834e+05	3.556e+04
6	65	4.770e+04	4.840e+05	-0.03	0.0	0.0	-8258.88	300.88	2444.56	-6292.77	-2.493e+05	-
4.257e+04												
		-4.257e+04	-2.493e+05	-0.13	0.0	300.0	-7583.88	300.88	2444.56	-6292.77	4.840e+05	4.770e+04
6	66	4.224e+04	2.658e+05	-0.03	0.0	0.0	-7499.01	266.32	812.23	5846.33	2.214e+04	-
3.765e+04												
		-3.765e+04	2.214e+04	0.16	0.0	300.0	-6824.01	266.32	812.23	5846.33	2.658e+05	4.224e+04
6	67	3.540e+04	4.833e+05	0.03	0.0	0.0	-8306.37	-196.63	2439.36	-5722.28	-2.485e+05	3.540e+04
		-2.359e+04	-2.485e+05	-0.13	0.0	300.0	-7631.37	-196.63	2439.36	-5722.28	4.833e+05	-
2.359e+04												
6	69	9326.32	3.746e+05	-1.49e-03	0.0	0.0	-7902.69	34.85	1625.79	62.02	-1.132e+05	-1127.37
		-1127.37	-1.132e+05	-0.05	0.0	300.0	-7227.69	34.85	1625.79	62.02	3.746e+05	9326.32
6	70	8983.77	4.799e+05	1.56e-03	0.0	0.0	-9473.51	30.47	2091.20	78.68	-1.475e+05	-156.08
		-156.08	-1.475e+05	-0.06	0.0	300.0	-8798.51	30.47	2091.20	78.68	4.799e+05	8983.77
6	71	9326.32	3.746e+05	-1.49e-03	0.0	0.0	-7902.69	34.85	1625.79	62.02	-1.132e+05	-1127.37
		-1127.37	-1.132e+05	-0.05	0.0	300.0	-7227.69	34.85	1625.79	62.02	3.746e+05	9326.32
6	72	9257.81	3.956e+05	-1.48e-03	0.0	0.0	-8216.86	33.97	1718.87	65.36	-1.200e+05	-933.11
		-933.11	-1.200e+05	-0.05	0.0	300.0	-7541.86	33.97	1718.87	65.36	3.956e+05	9257.81
7	1	1956.02	5.062e+05	2.39e-03	0.0	0.0	-1.085e+04	-56.18	2205.37	-81.65	-1.554e+05	1956.02
		-1.490e+04	-1.554e+05	-0.06	0.0	300.0	-9976.51	-56.18	2205.37	-81.65	5.062e+05	-
1.490e+04												
7	2	1790.93	6.712e+05	2.87e-03	0.0	0.0	-1.339e+04	-58.12	2937.19	-106.65	-2.100e+05	1790.93
		-1.565e+04	-2.100e+05	-0.08	0.0	300.0	-1.251e+04	-58.12	2937.19	-106.65	6.712e+05	-
1.565e+04												
7	3	1514.45	3.880e+05	1.84e-03	0.0	0.0	-8327.00	-43.26	1690.82	-62.62	-1.193e+05	1514.45
		-1.146e+04	-1.193e+05	-0.05	0.0	300.0	-7652.00	-43.26	1690.82	-62.62	3.880e+05	-
1.146e+04												
7	20	8.367e+04	3.735e+05	0.06	0.0	0.0	-8222.53	-566.61	1579.45	1428.90	-1.004e+05	8.367e+04
		-8.632e+04	-1.004e+05	0.05	0.0	300.0	-7547.53	-566.61	1579.45	1428.90	3.735e+05	-
8.632e+04												
7	25	1.204e+04	4.722e+05	-0.02	0.0	0.0	-8623.84	121.60	2318.21	1657.19	-2.233e+05	-
2.445e+04												
		-2.445e+04	-2.233e+05	-0.11	0.0	300.0	-7948.84	121.60	2318.21	1657.19	4.722e+05	1.204e+04
7	27	2.449e+04	4.734e+05	0.02	0.0	0.0	-8596.19	-190.19	2327.15	2045.46	-2.247e+05	2.449e+04
		-3.255e+04	-2.247e+05	-0.11	0.0	300.0	-7921.19	-190.19	2327.15	2045.46	4.734e+05	-

3.255e+04													
	7	28	2.747e+04	3.053e+05	0.02	0.0	0.0	-8055.29	-208.07	1069.79	-1782.65	-1.561e+04	2.747e+04
			-3.496e+04	-1.561e+04	0.13	0.0	300.0	-7380.29	-208.07	1069.79	-1782.65	3.053e+05	-
3.496e+04													
	7	52	1.321e+05	3.644e+05	0.10	0.0	0.0	-8153.84	-875.45	1511.80	2307.70	-8.909e+04	1.321e+05
			-1.305e+05	-8.909e+04	0.06	0.0	300.0	-7478.84	-875.45	1511.80	2307.70	3.644e+05	-
1.305e+05													
	7	57	2.589e+04	5.214e+05	-0.03	0.0	0.0	-8790.84	218.82	2686.49	2670.99	-2.845e+05	-
3.976e+04													
			-3.976e+04	-2.845e+05	-0.15	0.0	300.0	-8115.84	218.82	2686.49	2670.99	5.214e+05	2.589e+04
	7	59	3.806e+04	5.233e+05	0.03	0.0	0.0	-8746.99	-276.97	2700.66	3287.60	-2.869e+05	3.806e+04
			-4.501e+04	-2.869e+05	-0.16	0.0	300.0	-8071.99	-276.97	2700.66	3287.60	5.233e+05	-
4.501e+04													
	7	60	4.278e+04	2.561e+05	0.03	0.0	0.0	-7888.29	-305.29	701.51	-2796.45	4.564e+04	4.278e+04
			-4.882e+04	4.564e+04	0.19	0.0	300.0	-7213.29	-305.29	701.51	-2796.45	2.561e+05	-
4.882e+04													
	7	69	1508.90	3.888e+05	1.84e-03	0.0	0.0	-8339.57	-43.24	1694.00	-62.73	-1.194e+05	1508.90
			-1.146e+04	-1.194e+05	-0.05	0.0	300.0	-7664.57	-43.24	1694.00	-62.73	3.888e+05	-
1.146e+04													
	7	70	1398.84	4.988e+05	2.16e-03	0.0	0.0	-1.003e+04	-44.53	2181.87	-79.40	-1.558e+05	1398.84
			-1.196e+04	-1.558e+05	-0.06	0.0	300.0	-9356.08	-44.53	2181.87	-79.40	4.988e+05	-
1.196e+04													
	7	71	1508.90	3.888e+05	1.84e-03	0.0	0.0	-8339.57	-43.24	1694.00	-62.73	-1.194e+05	1508.90
			-1.146e+04	-1.194e+05	-0.05	0.0	300.0	-7664.57	-43.24	1694.00	-62.73	3.888e+05	-
1.146e+04													
	7	72	1486.89	4.108e+05	1.90e-03	0.0	0.0	-8677.87	-43.49	1791.57	-66.06	-1.267e+05	1486.89
			-1.156e+04	-1.267e+05	-0.05	0.0	300.0	-8002.87	-43.49	1791.57	-66.06	4.108e+05	-
1.156e+04													
	8	1	1.630e+04	4.841e+05	-2.53e-03	0.0	0.0	-1.068e+04	60.24	2101.60	-51.07	-1.464e+05	-1776.66
			-1776.66	-1.464e+05	-0.06	0.0	300.0	-9799.55	60.24	2101.60	-51.07	4.841e+05	1.630e+04
	8	2	1.582e+04	6.407e+05	2.93e-03	0.0	0.0	-1.317e+04	53.23	2794.51	-64.47	-1.977e+05	-153.12
			-153.12	-1.977e+05	-0.08	0.0	300.0	-1.229e+04	53.23	2794.51	-64.47	6.407e+05	1.582e+04
	8	3	1.252e+04	3.711e+05	-1.95e-03	0.0	0.0	-8191.45	46.28	1611.32	-39.22	-1.123e+05	-1362.77
			-1362.77	-1.123e+05	-0.05	0.0	300.0	-7516.45	46.28	1611.32	-39.22	3.711e+05	1.252e+04
	8	17	8.805e+04	3.894e+05	-0.06	0.0	0.0	-8201.30	573.12	1745.89	-1380.02	-1.344e+05	-
8.389e+04													
			-8.389e+04	-1.344e+05	-0.06	0.0	300.0	-7526.30	573.12	1745.89	-1380.02	3.894e+05	8.805e+04
	8	25	3.695e+04	4.542e+05	-0.02	0.0	0.0	-8447.98	215.88	2229.98	-3568.78	-2.148e+05	-
2.782e+04													
			-2.782e+04	-2.148e+05	-0.11	0.0	300.0	-7772.98	215.88	2229.98	-3568.78	4.542e+05	3.695e+04
	8	26	3.306e+04	2.906e+05	-0.02	0.0	0.0	-7918.06	190.49	1007.75	3167.64	-1.168e+04	-
2.409e+04													
			-2.409e+04	-1.168e+04	0.13	0.0	300.0	-7243.06	190.49	1007.75	3167.64	2.906e+05	3.306e+04
	8	27	2.136e+04	4.530e+05	0.02	0.0	0.0	-8489.33	-97.87	2220.87	-3246.16	-2.133e+05	2.136e+04
			-8000.45	-2.133e+05	-0.11	0.0	300.0	-7814.33	-97.87	2220.87	-3246.16	4.530e+05	-8000.45
	8	49	1.326e+05	3.998e+05	-0.10	0.0	0.0	-8200.60	883.96	1823.45	-2163.26	-1.473e+05	-
1.326e+05													
			-1.326e+05	-1.473e+05	-0.07	0.0	300.0	-7525.60	883.96	1823.45	-2163.26	3.998e+05	1.326e+05
	8	57	5.136e+04	5.028e+05	-0.03	0.0	0.0	-8590.95	315.94	2593.25	-5650.32	-2.752e+05	-
4.343e+04													
			-4.343e+04	-2.752e+05	-0.15	0.0	300.0	-7915.95	315.94	2593.25	-5650.32	5.028e+05	5.136e+04
	8	58	4.517e+04	2.427e+05	-0.03	0.0	0.0	-7751.15	275.59	649.80	5059.69	4.781e+04	-
3.749e+04													
			-3.749e+04	4.781e+04	0.18	0.0	300.0	-7076.15	275.59	649.80	5059.69	2.427e+05	4.517e+04
	8	59	3.477e+04	5.008e+05	0.03	0.0	0.0	-8656.24	-182.96	2578.82	-5138.21	-2.728e+05	3.477e+04
			-2.012e+04	-2.728e+05	-0.15	0.0	300.0	-7981.24	-182.96	2578.82	-5138.21	5.008e+05	-
2.012e+04													
	8	69	1.253e+04	3.718e+05	-1.95e-03	0.0	0.0	-8203.70	46.31	1614.31	-39.26	-1.125e+05	-1364.97
			-1364.97	-1.125e+05	-0.05	0.0	300.0	-7528.70	46.31	1614.31	-39.26	3.718e+05	1.253e+04
	8	70	1.221e+04	4.762e+05	2.18e-03	0.0	0.0	-9865.12	41.64	2076.25	-48.19	-1.467e+05	-282.61
			-282.61	-1.467e+05	-0.06	0.0	300.0	-9190.12	41.64	2076.25	-48.19	4.762e+05	1.221e+04
	8	71	1.253e+04	3.718e+05	-1.95e-03	0.0	0.0	-8203.70	46.31	1614.31	-39.26	-1.125e+05	-1364.97
			-1364.97	-1.125e+05	-0.05	0.0	300.0	-7528.70	46.31	1614.31	-39.26	3.718e+05	1.253e+04
	8	72	1.247e+04	3.927e+05	-1.93e-03	0.0	0.0	-8535.98	45.38	1706.70	-41.05	-1.193e+05	-1148.50
			-1148.50	-1.193e+05	-0.05	0.0	300.0	-7860.98	45.38	1706.70	-41.05	3.927e+05	1.247e+04
	9	2	3722.98	4.579e+05	1.33e-03	0.0	0.0	-9622.90	15.99	1950.31	38.27	-1.272e+05	-1072.95
			-1072.95	-1.272e+05	-0.06	0.0	300.0	-8745.40	15.99	1950.31	38.27	4.579e+05	3722.98
	9	3	1489.26	2.698e+05	4.24e-04	0.0	0.0	-6096.80	5.19	1142.10	21.60	-7.284e+04	-68.34
			-68.34	-7.284e+04	-0.04	0.0	300.0	-5421.80	5.19	1142.10	21.60	2.698e+05	1489.26
	9	4	3312.51	3.758e+05	1.20e-03	0.0	0.0	-7773.88	14.68	1603.31	31.84	-1.052e+05	-1091.45
			-1091.45	-1.052e+05	-0.05	0.0	300.0	-7098.88	14.68	1603.31	31.84	3.758e+05	3312.51
	9	17	8.029e+04	2.790e+05	-0.06	0.0	0.0	-6026.15	542.38	1208.36	-2014.08	-8.356e+04	-
8.243e+04													
			-8.243e+04	-8.356e+04	-0.04	0.0	300.0	-5351.15	542.38	1208.36	-2014.08	2.790e+05	8.029e+04
	9	20	8.232e+04	2.616e+05	0.06	0.0	0.0	-6184.83	-532.21	1079.64	2057.24	-6.227e+04	8.232e+04
			-7.734e+04	-6.227e+04	0.04	0.0	300.0	-5509.83	-532.21	1079.64	2057.24	2.616e+05	-

7.734e+04												
9	25	2.716e+04	3.155e+05	-0.02	0.0	0.0	-6244.46	179.91	1482.19	-4140.64	-1.291e+05	-
2.681e+04												
		-2.681e+04	-1.291e+05	-0.07	0.0	300.0	-5569.46	179.91	1482.19	-4140.64	3.155e+05	2.716e+04
9	26	2.266e+04	2.254e+05	-0.02	0.0	0.0	-5896.57	149.89	807.76	3548.66	-1.698e+04	-
2.230e+04												
		-2.230e+04	-1.698e+04	0.08	0.0	300.0	-5221.57	149.89	807.76	3548.66	2.254e+05	2.266e+04
9	27	2.220e+04	3.152e+05	0.02	0.0	0.0	-6314.40	-139.72	1480.24	-3505.50	-1.289e+05	2.220e+04
		-1.972e+04	-1.289e+05	-0.07	0.0	300.0	-5639.40	-139.72	1480.24	-3505.50	3.152e+05	-
1.972e+04												
9	49	1.268e+05	2.839e+05	-0.10	0.0	0.0	-5979.34	859.38	1245.23	-3209.25	-8.966e+04	-
1.310e+05												
		-1.310e+05	-8.966e+04	-0.04	0.0	300.0	-5304.34	859.38	1245.23	-3209.25	2.839e+05	1.268e+05
9	52	1.309e+05	2.567e+05	0.10	0.0	0.0	-6231.63	-849.21	1042.77	3252.41	-5.616e+04	1.309e+05
		-1.238e+05	-5.616e+04	0.04	0.0	300.0	-5556.63	-849.21	1042.77	3252.41	2.567e+05	-
1.238e+05												
9	57	4.232e+04	3.422e+05	-0.03	0.0	0.0	-6325.56	283.06	1681.39	-6575.20	-1.623e+05	-
4.260e+04												
		-4.260e+04	-1.623e+05	-0.09	0.0	300.0	-5650.56	283.06	1681.39	-6575.20	3.422e+05	4.232e+04
9	58	3.517e+04	1.989e+05	-0.03	0.0	0.0	-5774.22	235.36	609.60	5609.31	1.599e+04	-
3.544e+04												
		-3.544e+04	1.599e+04	0.11	0.0	300.0	-5099.22	235.36	609.60	5609.31	1.989e+05	3.517e+04
9	59	3.533e+04	3.417e+05	0.03	0.0	0.0	-6436.75	-225.19	1678.40	-5566.14	-1.618e+05	3.533e+04
		-3.222e+04	-1.618e+05	-0.09	0.0	300.0	-5761.75	-225.19	1678.40	-5566.14	3.417e+05	-
3.222e+04												
9	69	1473.48	2.703e+05	4.22e-04	0.0	0.0	-6105.49	5.08	1144.00	21.58	-7.291e+04	-51.38
		-51.38	-7.291e+04	-0.04	0.0	300.0	-5430.49	5.08	1144.00	21.58	2.703e+05	1473.48
9	70	2688.98	3.410e+05	9.41e-04	0.0	0.0	-7223.54	11.41	1451.48	28.41	-9.448e+04	-733.46
		-733.46	-9.448e+04	-0.04	0.0	300.0	-6548.54	11.41	1451.48	28.41	3.410e+05	2688.98
9	71	1473.48	2.703e+05	4.22e-04	0.0	0.0	-6105.49	5.08	1144.00	21.58	-7.291e+04	-51.38
		-51.38	-7.291e+04	-0.04	0.0	300.0	-5430.49	5.08	1144.00	21.58	2.703e+05	1473.48
9	72	1716.58	2.844e+05	5.26e-04	0.0	0.0	-6329.10	6.35	1205.49	22.95	-7.723e+04	-187.80
		-187.80	-7.723e+04	-0.04	0.0	300.0	-5654.10	6.35	1205.49	22.95	2.844e+05	1716.58
13	1	4081.44	1.729e+05	-6.38e-04	0.0	0.0	-1.264e+04	16.65	-2453.44	-43.95	1.729e+05	-912.25
		-912.25	-5.631e+05	0.07	0.0	300.0	-1.176e+04	16.65	-2453.44	-43.95	-5.631e+05	4081.44
13	2	2795.97	2.345e+05	9.03e-04	0.0	0.0	-1.572e+04	8.38	-3281.99	-58.68	2.345e+05	282.30
		282.30	-7.501e+05	0.09	0.0	300.0	-1.484e+04	8.38	-3281.99	-58.68	-7.501e+05	2795.97
13	3	3125.64	1.326e+05	-4.89e-04	0.0	0.0	-9696.79	12.76	-1880.77	-33.69	1.326e+05	-701.87
		-701.87	-4.316e+05	0.05	0.0	300.0	-9021.79	12.76	-1880.77	-33.69	-4.316e+05	3125.64
13	6	7.861e+04	1.508e+05	-0.07	0.0	0.0	-9830.35	538.92	-1992.43	792.33	1.508e+05	-
8.307e+04												
		-8.307e+04	-4.469e+05	0.07	0.0	300.0	-9155.35	538.92	-1992.43	792.33	-4.469e+05	7.861e+04
13	7	8.166e+04	1.149e+05	0.07	0.0	0.0	-9594.03	-513.35	-1776.46	-859.85	1.149e+05	8.166e+04
		-7.234e+04	-4.180e+05	-0.06	0.0	300.0	-8919.03	-513.35	-1776.46	-859.85	-4.180e+05	-
7.234e+04												
13	30	2.676e+04	2.593e+05	-0.02	0.0	0.0	-1.005e+04	177.47	-2648.87	-1122.44	2.593e+05	-
2.648e+04												
		-2.648e+04	-5.353e+05	0.13	0.0	300.0	-9375.43	177.47	-2648.87	-1122.44	-5.353e+05	2.676e+04
13	31	2.508e+04	6333.13	0.02	0.0	0.0	-9373.94	-151.90	-1120.02	1054.92	6333.13	2.508e+04
		-2.049e+04	-3.297e+05	-0.16	0.0	300.0	-8698.94	-151.90	-1120.02	1054.92	-3.297e+05	-
2.049e+04												
13	32	2.271e+04	2.602e+05	0.02	0.0	0.0	-1.002e+04	-136.80	-2654.38	-1965.39	2.602e+05	2.271e+04
		-1.833e+04	-5.361e+05	0.13	0.0	300.0	-9342.87	-136.80	-2654.38	-1965.39	-5.361e+05	-
1.833e+04												
13	38	1.231e+05	1.614e+05	-0.10	0.0	0.0	-9898.95	849.39	-2056.14	1280.98	1.614e+05	-
1.317e+05												
		-1.317e+05	-4.555e+05	0.07	0.0	300.0	-9223.95	849.39	-2056.14	1280.98	-4.555e+05	1.231e+05
13	39	1.303e+05	1.043e+05	0.10	0.0	0.0	-9525.43	-823.82	-1712.75	-1348.50	1.043e+05	1.303e+05
		-1.169e+05	-4.095e+05	-0.07	0.0	300.0	-8850.43	-823.82	-1712.75	-1348.50	-4.095e+05	-
1.169e+05												
13	62	4.069e+04	3.340e+05	-0.03	0.0	0.0	-1.025e+04	274.59	-3099.96	-1761.40	3.340e+05	-
4.169e+04												
		-4.169e+04	-5.960e+05	0.19	0.0	300.0	-9574.58	274.59	-3099.96	-1761.40	-5.960e+05	4.069e+04
13	63	4.028e+04	-6.832e+04	0.03	0.0	0.0	-9174.80	-249.02	-668.92	1693.89	-6.832e+04	4.028e+04
		-3.443e+04	-2.690e+05	-0.23	0.0	300.0	-8499.80	-249.02	-668.92	1693.89	-2.690e+05	-
3.443e+04												
13	64	3.653e+04	3.354e+05	0.03	0.0	0.0	-1.020e+04	-225.13	-3108.70	-3095.73	3.354e+05	3.653e+04
		-3.101e+04	-5.972e+05	0.18	0.0	300.0	-9523.04	-225.13	-3108.70	-3095.73	-5.972e+05	-
3.101e+04												
13	69	3133.51	1.328e+05	-4.90e-04	0.0	0.0	-9712.19	12.78	-1884.44	-33.76	1.328e+05	-701.79
		-701.79	-4.325e+05	0.06	0.0	300.0	-9037.19	12.78	-1884.44	-33.76	-4.325e+05	3133.51
13	70	2276.53	1.739e+05	6.33e-04	0.0	0.0	-1.177e+04	7.27	-2436.80	-43.58	1.739e+05	94.58
		94.58	-5.572e+05	0.07	0.0	300.0	-1.109e+04	7.27	-2436.80	-43.58	-5.572e+05	2276.53
13	71	3133.51	1.328e+05	-4.90e-04	0.0	0.0	-9712.19	12.78	-1884.44	-33.76	1.328e+05	-701.79
		-701.79	-4.325e+05	0.06	0.0	300.0	-9037.19	12.78	-1884.44	-33.76	-4.325e+05	3133.51
13	72	2962.12	1.410e+05	-4.41e-04	0.0	0.0	-1.012e+04	11.68	-1994.91	-35.72	1.410e+05	-542.52

			-542.52	-4.574e+05	0.06	0.0	300.0	-9447.88	11.68	-1994.91	-35.72	-4.574e+05	2962.12
15	1	1.204e+04	1.473e+05	-1.94e-03	0.0	0.0	-1.029e+04	44.58	-2116.76	-89.56	1.473e+05	-1332.27	
			-1332.27	-4.877e+05	0.06	0.0	300.0	-9407.55	44.58	-2116.76	-89.56	-4.877e+05	1.204e+04
15	2	1.151e+04	1.989e+05	2.17e-03	0.0	0.0	-1.264e+04	37.86	-2814.92	-119.22	1.989e+05	150.57	
			150.57	-6.456e+05	0.08	0.0	300.0	-1.176e+04	37.86	-2814.92	-119.22	-6.456e+05	1.151e+04
15	3		9266.54	1.131e+05	-1.49e-03	0.0	0.0	-7891.05	34.33	-1622.95	-68.68	1.131e+05	-1033.55
			-1033.55	-3.738e+05	0.05	0.0	300.0	-7216.05	34.33	-1622.95	-68.68	-3.738e+05	9266.54
15	10	8.468e+04	1.396e+05	-0.06	0.0	0.0	-7924.59	559.81	-1784.72	1712.27	1.396e+05	-	
8.326e+04													
			-8.326e+04	-3.958e+05	0.06	0.0	300.0	-7249.59	559.81	-1784.72	1712.27	-3.958e+05	8.468e+04
15	29	3.000e+04	2.810e+04	-0.02	0.0	0.0	-7648.31	180.04	-1114.09	-3699.49	2.810e+04	-	
2.401e+04													
			-2.401e+04	-3.061e+05	-0.11	0.0	300.0	-6973.31	180.04	-1114.09	-3699.49	-3.061e+05	3.000e+04
15	32	2.195e+04	1.984e+05	0.02	0.0	0.0	-8156.99	-111.42	-2137.83	3561.89	1.984e+05	2.195e+04	
			-1.148e+04	-4.430e+05	0.10	0.0	300.0	-7481.99	-111.42	-2137.83	3561.89	-4.430e+05	-
1.148e+04													
15	34	2.587e+04	1.989e+05	-0.01	0.0	0.0	-8131.98	149.07	-2137.37	3501.15	1.989e+05	-	
1.885e+04													
			-1.885e+04	-4.429e+05	0.10	0.0	300.0	-7456.98	149.07	-2137.37	3501.15	-4.429e+05	2.587e+04
15	36	1.369e+04	1.983e+05	0.01	0.0	0.0	-8152.07	-58.58	-2141.15	4003.47	1.983e+05	1.369e+04	
			-3883.47	-4.434e+05	0.10	0.0	300.0	-7477.07	-58.58	-2141.15	4003.47	-4.434e+05	-3883.47
15	42	1.292e+05	1.552e+05	-0.10	0.0	0.0	-7937.55	869.89	-1878.36	2760.53	1.552e+05	-	
1.318e+05													
			-1.318e+05	-4.083e+05	0.07	0.0	300.0	-7262.55	869.89	-1878.36	2760.53	-4.083e+05	1.292e+05
15	43	1.297e+05	7.127e+04	0.11	0.0	0.0	-7867.75	-801.27	-1373.56	-2898.13	7.127e+04	1.297e+05	
			-1.107e+05	-3.408e+05	-0.07	0.0	300.0	-7192.75	-801.27	-1373.56	-2898.13	-3.408e+05	-
1.107e+05													
15	61	4.226e+04	-2.214e+04	-0.03	0.0	0.0	-7498.59	266.12	-812.02	-5842.70	-2.214e+04	-	
3.758e+04													
			-3.758e+04	-2.657e+05	-0.16	0.0	300.0	-6823.59	266.12	-812.02	-5842.70	-2.657e+05	4.226e+04
15	64	3.552e+04	2.486e+05	0.03	0.0	0.0	-8306.71	-197.51	-2439.90	5705.10	2.486e+05	3.552e+04	
			-2.373e+04	-4.834e+05	0.13	0.0	300.0	-7631.71	-197.51	-2439.90	5705.10	-4.834e+05	-
2.373e+04													
15	66	3.564e+04	2.495e+05	-0.02	0.0	0.0	-8267.03	216.61	-2439.16	5608.15	2.495e+05	-	
2.934e+04													
			-2.934e+04	-4.833e+05	0.13	0.0	300.0	-7592.03	216.61	-2439.16	5608.15	-4.833e+05	3.564e+04
15	68	2.237e+04	2.484e+05	0.02	0.0	0.0	-8298.87	-113.39	-2445.16	6406.00	2.484e+05	2.237e+04	
			-1.164e+04	-4.841e+05	0.13	0.0	300.0	-7623.87	-113.39	-2445.16	6406.00	-4.841e+05	-
1.164e+04													
15	69		9264.07	1.132e+05	-1.49e-03	0.0	0.0	-7902.65	34.31	-1625.96	-68.80	1.132e+05	-1028.62
			-1028.62	-3.746e+05	0.05	0.0	300.0	-7227.65	34.31	-1625.96	-68.80	-3.746e+05	9264.07
15	70		8908.82	1.476e+05	1.60e-03	0.0	0.0	-9473.47	29.83	-2091.40	-88.57	1.476e+05	-40.06
			-40.06	-4.799e+05	0.06	0.0	300.0	-8798.47	29.83	-2091.40	-88.57	-4.799e+05	8908.82
15	71		9264.07	1.132e+05	-1.49e-03	0.0	0.0	-7902.65	34.31	-1625.96	-68.80	1.132e+05	-1028.62
			-1028.62	-3.746e+05	0.05	0.0	300.0	-7227.65	34.31	-1625.96	-68.80	-3.746e+05	9264.07
15	72		9193.02	1.201e+05	-1.47e-03	0.0	0.0	-8216.81	33.41	-1719.05	-72.75	1.201e+05	-830.91
			-830.91	-3.956e+05	0.05	0.0	300.0	-7541.81	33.41	-1719.05	-72.75	-3.956e+05	9193.02
16	1		1851.31	1.554e+05	2.42e-03	0.0	0.0	-1.085e+04	-55.77	-2205.09	57.16	1.554e+05	1851.31
			-1.488e+04	-5.062e+05	0.06	0.0	300.0	-9976.38	-55.77	-2205.09	57.16	-5.062e+05	-
1.488e+04													
16	2		1667.79	2.099e+05	2.90e-03	0.0	0.0	-1.339e+04	-57.65	-2936.82	76.53	2.099e+05	1667.79
			-1.563e+04	-6.712e+05	0.09	0.0	300.0	-1.251e+04	-57.65	-2936.82	76.53	-6.712e+05	-
1.563e+04													
16	3		1433.96	1.192e+05	1.86e-03	0.0	0.0	-8326.90	-42.94	-1690.60	43.84	1.192e+05	1433.96
			-1.145e+04	-3.880e+05	0.05	0.0	300.0	-7651.90	-42.94	-1690.60	43.84	-3.880e+05	-
1.145e+04													
16	11	8.357e+04	1.003e+05	0.06	0.0	0.0	-8223.10	-566.71	-1578.96	-1487.29	1.003e+05	8.357e+04	
			-8.644e+04	-3.734e+05	-0.05	0.0	300.0	-7548.10	-566.71	-1578.96	-1487.29	-3.734e+05	-
8.644e+04													
16	22	1.215e+04	2.232e+05	-0.02	0.0	0.0	-8623.94	122.25	-2317.90	-1662.06	2.232e+05	-	
2.454e+04													
			-2.454e+04	-4.722e+05	0.11	0.0	300.0	-7948.94	122.25	-2317.90	-1662.06	-4.722e+05	1.215e+04
16	23	2.739e+04	1.559e+04	0.02	0.0	0.0	-8055.00	-208.08	-1069.66	1749.89	1.559e+04	2.739e+04	
			-3.504e+04	-3.053e+05	-0.13	0.0	300.0	-7380.00	-208.08	-1069.66	1749.89	-3.053e+05	-
3.504e+04													
16	24	2.441e+04	2.246e+05	0.02	0.0	0.0	-8596.30	-189.83	-2326.67	-2074.70	2.246e+05	2.441e+04	
			-3.253e+04	-4.734e+05	0.11	0.0	300.0	-7921.30	-189.83	-2326.67	-2074.70	-4.734e+05	-
3.253e+04													
16	43	1.320e+05	8.897e+04	0.10	0.0	0.0	-8154.78	-875.80	-1511.15	-2389.46	8.897e+04	1.320e+05	
			-1.307e+05	-3.644e+05	-0.06	0.0	300.0	-7479.78	-875.80	-1511.15	-2389.46	-3.644e+05	-
1.307e+05													
16	54	2.606e+04	2.844e+05	-0.03	0.0	0.0	-8790.99	219.66	-2686.13	-2667.58	2.844e+05	-	
3.985e+04													
			-3.985e+04	-5.214e+05	0.15	0.0	300.0	-8115.99	219.66	-2686.13	-2667.58	-5.214e+05	2.606e+04
16	55	4.271e+04	-4.566e+04	0.03	0.0	0.0	-7887.96	-305.49	-701.43	2755.41	-4.566e+04	4.271e+04	
			-4.895e+04	-2.561e+05	-0.19	0.0	300.0	-7212.96	-305.49	-701.43	2755.41	-2.561e+05	-

4.895e+04													
16	56	3.797e+04	2.867e+05	0.03	0.0	0.0	-8747.15	-276.59	-2700.02	-3322.97	2.867e+05	3.797e+04	
		-4.499e+04	-5.233e+05	0.16	0.0	300.0	-8072.15	-276.59	-2700.02	-3322.97	-5.233e+05		-
4.499e+04													
16	69	1428.38	1.194e+05	1.86e-03	0.0	0.0	-8339.47	-42.92	-1693.78	43.91	1.194e+05	1428.38	
		-1.145e+04	-3.887e+05	0.05	0.0	300.0	-7664.47	-42.92	-1693.78	43.91	-3.887e+05		-
1.145e+04													
16	70	1306.03	1.557e+05	2.18e-03	0.0	0.0	-1.003e+04	-44.17	-2181.60	56.82	1.557e+05	1306.03	
		-1.194e+04	-4.988e+05	0.06	0.0	300.0	-9355.96	-44.17	-2181.60	56.82	-4.988e+05		-
1.194e+04													
16	71	1428.38	1.194e+05	1.86e-03	0.0	0.0	-8339.47	-42.92	-1693.78	43.91	1.194e+05	1428.38	
		-1.145e+04	-3.887e+05	0.05	0.0	300.0	-7664.47	-42.92	-1693.78	43.91	-3.887e+05		-
1.145e+04													
16	72	1403.91	1.267e+05	1.92e-03	0.0	0.0	-8677.77	-43.17	-1791.34	46.50	1.267e+05	1403.91	
		-1.155e+04	-4.107e+05	0.05	0.0	300.0	-8002.77	-43.17	-1791.34	46.50	-4.107e+05		-
1.155e+04													
17	1	1.622e+04	1.463e+05	-2.54e-03	0.0	0.0	-1.068e+04	59.43	-2101.37	69.34	1.463e+05	-1604.34	
		-1604.34	-4.841e+05	0.06	0.0	300.0	-9799.46	59.43	-2101.37	69.34	-4.841e+05	1.622e+04	
17	2	1.573e+04	1.976e+05	2.97e-03	0.0	0.0	-1.317e+04	52.28	-2794.22	85.73	1.976e+05	48.21	
		48.21	-6.407e+05	0.08	0.0	300.0	-1.229e+04	52.28	-2794.22	85.73	-6.407e+05	1.573e+04	
17	3	1.247e+04	1.123e+05	-1.95e-03	0.0	0.0	-8191.38	45.66	-1611.14	53.25	1.123e+05	-1230.43	
		-1230.43	-3.711e+05	0.05	0.0	300.0	-7516.38	45.66	-1611.14	53.25	-3.711e+05	1.247e+04	
17	10	8.816e+04	1.343e+05	-0.06	0.0	0.0	-8202.30	573.09	-1745.82	1430.72	1.343e+05		-
8.377e+04													
		-8.377e+04	-3.894e+05	0.06	0.0	300.0	-7527.30	573.09	-1745.82	1430.72	-3.894e+05	8.816e+04	
17	21	3.309e+04	1.169e+04	-0.02	0.0	0.0	-7918.61	190.26	-1007.83	-3145.39	1.169e+04		-
2.398e+04													
		-2.398e+04	-2.907e+05	-0.13	0.0	300.0	-7243.61	190.26	-1007.83	-3145.39	-2.907e+05	3.309e+04	
17	22	3.690e+04	2.147e+05	-0.02	0.0	0.0	-8447.03	215.19	-2229.64	3595.95	2.147e+05		-
2.766e+04													
		-2.766e+04	-4.542e+05	0.11	0.0	300.0	-7772.03	215.19	-2229.64	3595.95	-4.542e+05	3.690e+04	
17	24	2.152e+04	2.132e+05	0.02	0.0	0.0	-8488.64	-98.88	-2220.44	3251.99	2.132e+05	2.152e+04	
		-8142.54	-4.529e+05	0.11	0.0	300.0	-7813.64	-98.88	-2220.44	3251.99	-4.529e+05	-8142.54	
17	42	1.328e+05	1.472e+05	-0.10	0.0	0.0	-8202.25	884.28	-1823.44	2235.60	1.472e+05		-
1.325e+05													
		-1.325e+05	-3.998e+05	0.07	0.0	300.0	-7527.25	884.28	-1823.44	2235.60	-3.998e+05	1.328e+05	
17	53	4.526e+04	-4.777e+04	-0.03	0.0	0.0	-7751.83	275.58	-650.02	-5032.62	-4.777e+04		-
3.741e+04													
		-3.741e+04	-2.428e+05	-0.18	0.0	300.0	-7076.83	275.58	-650.02	-5032.62	-2.428e+05	4.526e+04	
17	54	5.132e+04	2.751e+05	-0.03	0.0	0.0	-8589.76	315.21	-2592.81	5685.29	2.751e+05		-
4.326e+04													
		-4.326e+04	-5.027e+05	0.15	0.0	300.0	-7914.76	315.21	-2592.81	5685.29	-5.027e+05	5.132e+04	
17	56	3.494e+04	2.727e+05	0.03	0.0	0.0	-8655.42	-184.20	-2578.25	5139.22	2.727e+05	3.494e+04	
		-2.031e+04	-5.008e+05	0.15	0.0	300.0	-7980.42	-184.20	-2578.25	5139.22	-5.008e+05		-
2.031e+04													
17	69	1.247e+04	1.124e+05	-1.96e-03	0.0	0.0	-8203.63	45.69	-1614.14	53.30	1.124e+05	-1232.51	
		-1232.51	-3.718e+05	0.05	0.0	300.0	-7528.63	45.69	-1614.14	53.30	-3.718e+05	1.247e+04	
17	70	1.215e+04	1.466e+05	2.20e-03	0.0	0.0	-9865.02	40.92	-2076.04	64.23	1.466e+05	-130.81	
		-130.81	-4.762e+05	0.06	0.0	300.0	-9190.02	40.92	-2076.04	64.23	-4.762e+05	1.215e+04	
17	71	1.247e+04	1.124e+05	-1.96e-03	0.0	0.0	-8203.63	45.69	-1614.14	53.30	1.124e+05	-1232.51	
		-1232.51	-3.718e+05	0.05	0.0	300.0	-7528.63	45.69	-1614.14	53.30	-3.718e+05	1.247e+04	
17	72	1.241e+04	1.193e+05	-1.94e-03	0.0	0.0	-8535.90	44.74	-1706.52	55.48	1.193e+05	-1012.17	
		-1012.17	-3.927e+05	0.05	0.0	300.0	-7860.90	44.74	-1706.52	55.48	-3.927e+05	1.241e+04	
18	1	4120.83	5.632e+05	-6.46e-04	0.0	0.0	-1.264e+04	17.12	2452.94	53.16	-1.727e+05	-1014.65	
		-1014.65	-1.727e+05	-0.07	0.0	300.0	-1.176e+04	17.12	2452.94	53.16	5.632e+05	4120.83	
18	2	2846.96	7.502e+05	8.62e-04	0.0	0.0	-1.572e+04	8.97	3281.35	68.54	-2.342e+05	154.64	
		154.64	-2.342e+05	-0.09	0.0	300.0	-1.484e+04	8.97	3281.35	68.54	7.502e+05	2846.96	
18	3	3155.60	4.316e+05	-4.95e-04	0.0	0.0	-9696.53	13.12	1880.38	40.74	-1.325e+05	-780.12	
		-780.12	-1.325e+05	-0.05	0.0	300.0	-9021.53	13.12	1880.38	40.74	4.316e+05	3155.60	
18	13	7.848e+04	4.470e+05	-0.06	0.0	0.0	-9829.47	538.66	1992.26	-756.80	-1.507e+05		-
8.312e+04													
		-8.312e+04	-1.507e+05	-0.07	0.0	300.0	-9154.47	538.66	1992.26	-756.80	4.470e+05	7.848e+04	
18	16	8.155e+04	4.180e+05	0.07	0.0	0.0	-9594.37	-512.37	1775.85	838.46	-1.147e+05	8.155e+04	
		-7.216e+04	-1.147e+05	0.06	0.0	300.0	-8919.37	-512.37	1775.85	838.46	4.180e+05		-
7.216e+04													
18	33	2.679e+04	5.353e+05	-0.02	0.0	0.0	-1.005e+04	177.89	2648.45	1146.82	-2.592e+05		-
2.658e+04													
		-2.658e+04	-2.592e+05	-0.13	0.0	300.0	-9375.32	177.89	2648.45	1146.82	5.353e+05	2.679e+04	
18	35	2.259e+04	5.361e+05	0.02	0.0	0.0	-1.002e+04	-135.99	2653.83	1969.80	-2.601e+05	2.259e+04	
		-1.820e+04	-2.601e+05	-0.13	0.0	300.0	-9342.49	-135.99	2653.83	1969.80	5.361e+05		-
1.820e+04													
18	36	2.502e+04	3.297e+05	0.02	0.0	0.0	-9373.53	-151.60	1119.66	-1065.16	-6209.73	2.502e+04	
		-2.046e+04	-6209.73	0.16	0.0	300.0	-8698.53	-151.60	1119.66	-1065.16	3.297e+05		-
2.046e+04													
18	45	1.229e+05	4.555e+05	-0.10	0.0	0.0	-9897.86	848.75	2056.10	-1227.21	-1.613e+05		-
1.317e+05													

		-1.317e+05	-1.613e+05	-0.07	0.0	300.0	-9222.86	848.75	2056.10	-1227.21	4.555e+05	1.229e+05
18	48	1.301e+05	4.095e+05	0.10	0.0	0.0	-9525.98	-822.46	1712.01	1308.87	-1.041e+05	1.301e+05
		-1.166e+05	-1.041e+05	0.07	0.0	300.0	-8850.98	-822.46	1712.01	1308.87	4.095e+05	-
1.166e+05												
18	65	4.073e+04	5.960e+05	-0.03	0.0	0.0	-1.025e+04	275.04	3099.53	1795.02	-3.339e+05	-
4.179e+04												
		-4.179e+04	-3.339e+05	-0.19	0.0	300.0	-9574.57	275.04	3099.53	1795.02	5.960e+05	4.073e+04
18	67	3.640e+04	5.972e+05	0.03	0.0	0.0	-1.020e+04	-224.08	3108.07	3097.49	-3.352e+05	3.640e+04
		-3.082e+04	-3.352e+05	-0.18	0.0	300.0	-9522.57	-224.08	3108.07	3097.49	5.972e+05	-
3.082e+04												
18	68	4.023e+04	2.690e+05	0.03	0.0	0.0	-9174.28	-248.75	668.58	-1713.36	6.844e+04	4.023e+04
		-3.440e+04	6.844e+04	0.23	0.0	300.0	-8499.28	-248.75	668.58	-1713.36	2.690e+05	-
3.440e+04												
18	69	3163.67	4.325e+05	-4.96e-04	0.0	0.0	-9711.92	13.15	1884.05	40.83	-1.327e+05	-780.33
		-780.33	-1.327e+05	-0.06	0.0	300.0	-9036.92	13.15	1884.05	40.83	4.325e+05	3163.67
18	70	2314.42	5.572e+05	6.02e-04	0.0	0.0	-1.177e+04	7.72	2436.33	51.08	-1.737e+05	-0.81
		-0.81	-1.737e+05	-0.07	0.0	300.0	-1.109e+04	7.72	2436.33	51.08	5.572e+05	2314.42
18	71	3163.67	4.325e+05	-4.96e-04	0.0	0.0	-9711.92	13.15	1884.05	40.83	-1.327e+05	-780.33
		-780.33	-1.327e+05	-0.06	0.0	300.0	-9036.92	13.15	1884.05	40.83	4.325e+05	3163.67
18	72	2993.82	4.574e+05	-4.42e-04	0.0	0.0	-1.012e+04	12.06	1994.51	42.88	-1.409e+05	-624.43
		-624.43	-1.409e+05	-0.06	0.0	300.0	-9447.61	12.06	1994.51	42.88	4.574e+05	2993.82
29	2	1.129e+04	4.586e+04	2.74e-03	0.0	0.0	-4720.74	31.03	-983.02	-11.22	4.586e+04	1977.96
		1977.96	-2.490e+05	0.04	0.0	300.0	-3843.24	31.03	-983.02	-11.22	-2.490e+05	1.129e+04
29	3	7289.94	2.696e+04	-1.58e-03	0.0	0.0	-3172.28	17.50	-603.06	1.53	2.696e+04	2039.29
		2039.29	-1.540e+05	0.02	0.0	300.0	-2497.28	17.50	-603.06	1.53	-1.540e+05	7289.94
29	4	9195.43	3.777e+04	2.30e-03	0.0	0.0	-3763.01	26.53	-800.38	-11.32	3.777e+04	1234.95
		1234.95	-2.023e+05	0.03	0.0	300.0	-3088.01	26.53	-800.38	-11.32	-2.023e+05	9195.43
29	6	6.832e+04	2.852e+04	-0.06	0.0	0.0	-3506.84	450.54	-616.83	-515.68	2.852e+04	-
6.684e+04												
		-6.684e+04	-1.565e+05	0.03	0.0	300.0	-2831.84	450.54	-616.83	-515.68	-1.565e+05	6.832e+04
29	7	7.104e+04	2.540e+04	0.07	0.0	0.0	-2842.98	-416.19	-590.79	518.43	2.540e+04	7.104e+04
		-5.382e+04	-1.519e+05	-0.02	0.0	300.0	-2167.98	-416.19	-590.79	518.43	-1.519e+05	-
5.382e+04												
29	10	6.938e+04	2.672e+04	-0.06	0.0	0.0	-3495.28	457.89	-606.26	-610.04	2.672e+04	-
6.798e+04												
		-6.798e+04	-1.551e+05	0.02	0.0	300.0	-2820.28	457.89	-606.26	-610.04	-1.551e+05	6.938e+04
29	11	7.218e+04	2.720e+04	0.07	0.0	0.0	-2854.54	-423.54	-601.37	612.78	2.720e+04	7.218e+04
		-5.489e+04	-1.533e+05	0.02	0.0	300.0	-2179.54	-423.54	-601.37	612.78	-1.533e+05	-
5.489e+04												
29	24	2.469e+04	6.288e+04	0.02	0.0	0.0	-3187.19	-125.13	-820.38	2584.69	6.288e+04	2.469e+04
		-1.285e+04	-1.833e+05	0.04	0.0	300.0	-2512.19	-125.13	-820.38	2584.69	-1.833e+05	-
1.285e+04												
29	38	1.044e+05	2.928e+04	-0.10	0.0	0.0	-3702.02	706.26	-623.59	-791.85	2.928e+04	-
1.075e+05												
		-1.075e+05	-1.577e+05	0.03	0.0	300.0	-3027.02	706.26	-623.59	-791.85	-1.577e+05	1.044e+05
29	39	1.117e+05	2.464e+04	0.10	0.0	0.0	-2647.80	-671.91	-584.04	794.59	2.464e+04	1.117e+05
		-8.986e+04	-1.507e+05	-0.02	0.0	300.0	-1972.80	-671.91	-584.04	794.59	-1.507e+05	-
8.986e+04												
29	42	1.060e+05	2.631e+04	-0.10	0.0	0.0	-3683.18	717.87	-606.15	-935.56	2.631e+04	-
1.093e+05												
		-1.093e+05	-1.554e+05	0.02	0.0	300.0	-3008.18	717.87	-606.15	-935.56	-1.554e+05	1.060e+05
29	43	1.135e+05	2.761e+04	0.10	0.0	0.0	-2666.64	-683.52	-601.47	938.30	2.761e+04	1.135e+05
		-9.154e+04	-1.529e+05	0.02	0.0	300.0	-1991.64	-683.52	-601.47	938.30	-1.529e+05	-
9.154e+04												
29	56	3.802e+04	8.345e+04	0.03	0.0	0.0	-3194.58	-209.06	-944.35	4073.94	8.345e+04	3.802e+04
		-2.471e+04	-1.999e+05	0.06	0.0	300.0	-2519.58	-209.06	-944.35	4073.94	-1.999e+05	-
2.471e+04												
29	69	7248.75	2.696e+04	-1.58e-03	0.0	0.0	-3174.91	17.17	-603.81	1.37	2.696e+04	2096.34
		2096.34	-1.542e+05	0.02	0.0	300.0	-2499.91	17.17	-603.81	1.37	-1.542e+05	7248.75
29	70	8519.07	3.417e+04	2.03e-03	0.0	0.0	-3568.73	23.20	-735.36	-7.20	3.417e+04	1560.12
		1560.12	-1.864e+05	0.03	0.0	300.0	-2893.73	23.20	-735.36	-7.20	-1.864e+05	8519.07
29	71	7248.75	2.696e+04	-1.58e-03	0.0	0.0	-3174.91	17.17	-603.81	1.37	2.696e+04	2096.34
		2096.34	-1.542e+05	0.02	0.0	300.0	-2499.91	17.17	-603.81	1.37	-1.542e+05	7248.75
29	72	7502.81	2.840e+04	1.59e-03	0.0	0.0	-3253.67	18.38	-630.12	-0.34	2.840e+04	1989.10
		1989.10	-1.606e+05	0.02	0.0	300.0	-2578.67	18.38	-630.12	-0.34	-1.606e+05	7502.81
30	2	1.143e+04	2.490e+05	2.70e-03	0.0	0.0	-4720.97	32.51	983.73	40.70	-4.609e+04	1672.30
		1672.30	-4.609e+04	-0.04	0.0	300.0	-3843.47	32.51	983.73	40.70	2.490e+05	1.143e+04
30	3	7383.88	1.539e+05	-1.56e-03	0.0	0.0	-3172.45	18.51	603.51	19.25	-2.711e+04	1829.69
		1829.69	-2.711e+04	-0.02	0.0	300.0	-2497.45	18.51	603.51	19.25	1.539e+05	7383.88
30	4	9306.53	2.023e+05	2.27e-03	0.0	0.0	-3763.20	27.72	800.96	34.79	-3.796e+04	989.69
		989.69	-3.796e+04	-0.03	0.0	300.0	-3088.20	27.72	800.96	34.79	2.023e+05	9306.53
30	13	6.838e+04	1.566e+05	-0.06	0.0	0.0	-3506.17	451.95	618.23	520.63	-2.884e+04	-
6.721e+04												
		-6.721e+04	-2.884e+04	-0.02	0.0	300.0	-2831.17	451.95	618.23	520.63	1.566e+05	6.838e+04
30	16	7.098e+04	1.518e+05	0.07	0.0	0.0	-2843.98	-415.59	590.28	-482.02	-2.537e+04	7.098e+04
		-5.369e+04	-2.537e+04	0.02	0.0	300.0	-2168.98	-415.59	590.28	-482.02	1.518e+05	-

5.369e+04												
30	17	6.938e+04	1.552e+05	-0.06	0.0	0.0	-3494.50	458.91	607.85	645.85	-2.706e+04	-
6.829e+04												
		-6.829e+04	-2.706e+04	-0.02	0.0	300.0	-2819.50	458.91	607.85	645.85	1.552e+05	6.938e+04
30	20	7.207e+04	1.531e+05	0.07	0.0	0.0	-2855.64	-422.55	600.66	-607.24	-2.715e+04	7.207e+04
		-5.470e+04	-2.715e+04	-0.02	0.0	300.0	-2180.64	-422.55	600.66	-607.24	1.531e+05	-
5.470e+04												
30	27	2.445e+04	1.833e+05	0.02	0.0	0.0	-3184.56	-123.72	821.01	-2578.94	-6.307e+04	2.445e+04
		-1.267e+04	-6.307e+04	-0.04	0.0	300.0	-2509.56	-123.72	821.01	-2578.94	1.833e+05	-
1.267e+04												
30	45	1.044e+05	1.579e+05	-0.10	0.0	0.0	-3700.78	707.92	625.50	790.05	-2.970e+04	-
1.080e+05												
		-1.080e+05	-2.970e+04	-0.03	0.0	300.0	-3025.78	707.92	625.50	790.05	1.579e+05	1.044e+05
30	48	1.118e+05	1.505e+05	0.10	0.0	0.0	-2649.37	-671.56	583.01	-751.44	-2.451e+04	1.118e+05
		-8.971e+04	-2.451e+04	0.02	0.0	300.0	-1974.37	-671.56	583.01	-751.44	1.505e+05	-
8.971e+04												
30	49	1.060e+05	1.557e+05	-0.10	0.0	0.0	-3682.00	718.91	608.41	980.55	-2.677e+04	-
1.097e+05												
		-1.097e+05	-2.677e+04	-0.02	0.0	300.0	-3007.00	718.91	608.41	980.55	1.557e+05	1.060e+05
30	52	1.135e+05	1.527e+05	0.10	0.0	0.0	-2668.14	-682.55	600.10	-941.94	-2.744e+04	1.135e+05
		-9.130e+04	-2.744e+04	-0.02	0.0	300.0	-1993.14	-682.55	600.10	-941.94	1.527e+05	-
9.130e+04												
30	59	3.775e+04	1.998e+05	0.03	0.0	0.0	-3190.03	-207.39	944.94	-4070.61	-8.367e+04	3.775e+04
		-2.447e+04	-8.367e+04	-0.06	0.0	300.0	-2515.03	-207.39	944.94	-4070.61	1.998e+05	-
2.447e+04												
30	69	7342.14	1.542e+05	-1.57e-03	0.0	0.0	-3175.07	18.18	604.26	19.30	-2.711e+04	1887.83
		1887.83	-2.711e+04	-0.02	0.0	300.0	-2500.07	18.18	604.26	19.30	1.542e+05	7342.14
30	70	8623.91	1.864e+05	1.99e-03	0.0	0.0	-3568.91	24.32	735.89	29.67	-3.434e+04	1327.82
		1327.82	-3.434e+04	-0.03	0.0	300.0	-2893.91	24.32	735.89	29.67	1.864e+05	8623.91
30	71	7342.14	1.542e+05	-1.57e-03	0.0	0.0	-3175.07	18.18	604.26	19.30	-2.711e+04	1887.83
		1887.83	-2.711e+04	-0.02	0.0	300.0	-2500.07	18.18	604.26	19.30	1.542e+05	7342.14
30	72	7598.49	1.606e+05	1.56e-03	0.0	0.0	-3253.84	19.41	630.58	21.38	-2.855e+04	1775.83
		1775.83	-2.855e+04	-0.02	0.0	300.0	-2578.84	19.41	630.58	21.38	1.606e+05	7598.49

Pilas.	**M3 mx/mn**	**M2 mx/mn**	**D 2 / D 3**	**Q 2 / Q 3**	**N**	**V 2**	**V 3**	**T**
	-1.326e+05	-7.501e+05	-0.23	0.0	-1.572e+04	-875.80	-3281.99	-7640.22
	1.328e+05	7.502e+05	0.23	0.0	-1972.80	884.28	3281.35	7614.04

Trave	**Cmb**	**M3 mx/mn**	**M2 mx/mn**	**D 2 / D 3**	**Q 2 / Q 3**	**Pos.**	**N**	**V 2**	**V 3**	**T**	**M 2**	**M 3**
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
3	2	5.126e+05	340.99	-0.36	-4855.69	0.0	-1482.08	4855.79	-0.35	-25.04	340.99	-
2.522e+05												
		-2.522e+05	230.42	-3.71e-04	0.0	315.0	-1482.08	0.10	-0.35	-25.04	230.42	5.126e+05
3	3	3.102e+05	198.62	-0.22	-2951.58	0.0	-881.87	2951.64	-0.22	-16.22	198.62	-
1.547e+05												
		-1.547e+05	130.04	-2.10e-04	0.0	315.0	-881.87	0.06	-0.22	-16.22	130.04	3.102e+05
3	20	3.134e+05	2.681e+04	-0.22	-2956.56	0.0	-883.06	3014.61	165.74	-4406.51	-2.574e+04	-
1.712e+05												
		-1.712e+05	-2.574e+04	-0.03	0.0	315.0	-883.06	58.05	165.74	-4406.51	2.681e+04	3.134e+05
3	30	3.119e+05	-7303.95	-0.22	-2956.56	0.0	-980.09	3095.45	35.77	162.00	-1.890e+04	-
1.970e+05												
		-1.970e+05	-1.890e+04	5.80e-03	0.0	315.0	-980.09	138.89	35.77	162.00	-7303.95	3.119e+05
3	31	3.095e+05	1.930e+04	-0.22	-2956.56	0.0	-786.46	2817.80	-36.21	-194.41	1.930e+04	-
1.129e+05												
		-1.129e+05	7564.57	-6.14e-03	0.0	315.0	-786.46	-138.76	-36.21	-194.41	7564.57	3.095e+05
3	33	3.082e+05	2.831e+04	-0.22	-2956.56	0.0	-803.74	2816.38	-114.61	1621.35	2.831e+04	-
1.129e+05												
		-1.129e+05	-8332.68	0.01	0.0	315.0	-803.74	-140.19	-114.61	1621.35	-8332.68	3.082e+05
3	36	3.132e+05	8593.29	-0.22	-2956.56	0.0	-962.81	3096.88	114.18	-1653.77	-2.791e+04	-
1.970e+05												
		-1.970e+05	-2.791e+04	-0.01	0.0	315.0	-962.81	140.31	114.18	-1653.77	8593.29	3.132e+05
3	52	3.147e+05	4.187e+04	-0.22	-2956.56	0.0	-882.81	3048.11	260.66	-6953.80	-4.075e+04	-
1.807e+05												
		-1.807e+05	-4.075e+04	-0.05	0.0	315.0	-882.81	91.54	260.66	-6953.80	4.187e+04	3.147e+05
3	62	3.127e+05	-1.154e+04	-0.21	-2956.56	0.0	-1035.64	3176.34	58.00	242.35	-3.028e+04	-
2.216e+05												
		-2.216e+05	-3.028e+04	9.32e-03	0.0	315.0	-1035.64	219.77	58.00	242.35	-1.154e+04	3.127e+05
3	63	3.109e+05	3.067e+04	-0.22	-2956.56	0.0	-730.91	2736.91	-58.43	-274.77	3.067e+04	-
8.832e+04												
		-8.832e+04	1.180e+04	-9.66e-03	0.0	315.0	-730.91	-219.65	-58.43	-274.77	1.180e+04	3.087e+05
3	65	3.093e+05	4.478e+04	-0.22	-2956.56	0.0	-758.25	2734.36	-181.13	2570.53	4.478e+04	-
8.820e+04												
		-8.820e+04	-1.307e+04	0.02	0.0	315.0	-758.25	-222.20	-181.13	2570.53	-1.307e+04	3.069e+05
3	68	3.145e+05	1.333e+04	-0.21	-2956.56	0.0	-1008.30	3178.89	180.69	-2602.95	-4.438e+04	-
2.217e+05												

		-2.217e+05	-4.438e+04	-0.02	0.0	315.0	-1008.30	222.32	180.69	-2602.95	1.333e+04	3.145e+05
3	69	3.107e+05	198.90	-0.22	-2956.56	0.0	-883.28	2956.63	-0.22	-16.21	198.90	-
1.549e+05												
		-1.549e+05	130.31	-2.10e-04	0.0	315.0	-883.28	0.06	-0.22	-16.21	130.31	3.107e+05
3	70	3.828e+05	253.66	-0.27	-3628.01	0.0	-1104.89	3628.09	-0.26	-18.87	253.66	-
1.887e+05												
		-1.887e+05	170.81	-2.75e-04	0.0	315.0	-1104.89	0.08	-0.26	-18.87	170.81	3.828e+05
3	71	3.107e+05	198.90	-0.22	-2956.56	0.0	-883.28	2956.63	-0.22	-16.21	198.90	-
1.549e+05												
		-1.549e+05	130.31	-2.10e-04	0.0	315.0	-883.28	0.06	-0.22	-16.21	130.31	3.107e+05
3	72	3.251e+05	209.85	-0.23	-3090.85	0.0	-927.60	3090.92	-0.23	-16.74	209.85	-
1.617e+05												
		-1.617e+05	138.41	-2.23e-04	0.0	315.0	-927.60	0.07	-0.23	-16.74	138.41	3.251e+05
4	2	9.829e+05	-79.26	-0.66	-2.042e+04	0.0	-2793.82	1.021e+04	-0.03	7.96	-79.26	-
6.255e+05												
		-6.255e+05	-97.82	1.57e-04	0.0	630.0	-2793.82	-1.021e+04	-0.03	7.96	-97.82	-
6.255e+05												
4	3	5.702e+05	-45.32	-0.39	-1.183e+04	0.0	-1610.92	5914.70	-0.01	4.90	-45.32	-
3.613e+05												
		-3.613e+05	-54.57	8.85e-05	0.0	630.0	-1610.92	-5914.69	-0.01	4.90	-54.57	-
3.613e+05												
4	10	5.714e+05	5663.29	-0.39	-1.185e+04	0.0	-1610.26	5978.83	18.43	-1210.66	-5946.12	-
3.784e+05												
		-3.784e+05	-5946.12	-0.02	0.0	630.0	-1610.26	-5875.24	18.43	-1210.66	5663.29	-
3.458e+05												
4	11	5.714e+05	5855.34	-0.39	-1.185e+04	0.0	-1617.57	5875.25	-18.46	1220.48	5855.34	-
3.457e+05												
		-3.784e+05	-5772.73	0.02	0.0	630.0	-1617.57	-5978.83	-18.46	1220.48	-5772.73	-
3.784e+05												
4	20	5.714e+05	5586.01	-0.39	-1.185e+04	0.0	-1617.16	5978.80	17.60	-1185.98	-5500.22	-
3.783e+05												
		-3.783e+05	-5500.22	-0.02	0.0	630.0	-1617.16	-5875.28	17.60	-1185.98	5586.01	-
3.457e+05												
4	21	5.714e+05	1.988e+04	-0.39	-1.185e+04	0.0	-1613.12	5678.18	63.36	-266.89	-2.004e+04	-
2.837e+05												
		-4.405e+05	-2.004e+04	-7.62e-03	0.0	630.0	-1613.12	-6175.89	63.36	-266.89	1.988e+04	-
4.405e+05												
4	24	5.714e+05	1.995e+04	-0.38	-1.185e+04	0.0	-1614.71	6175.90	-63.39	276.71	1.995e+04	-
4.404e+05												
		-4.404e+05	-1.999e+04	7.74e-03	0.0	630.0	-1614.71	-5678.18	-63.39	276.71	-1.999e+04	-
2.837e+05												
4	25	5.714e+05	1.406e+04	-0.39	-1.185e+04	0.0	-1613.13	5675.45	44.87	432.12	-1.421e+04	-
2.828e+05												
		-4.413e+05	-1.421e+04	8.88e-03	0.0	630.0	-1613.13	-6178.63	44.87	432.12	1.406e+04	-
4.413e+05												
4	42	5.714e+05	9055.53	-0.39	-1.185e+04	0.0	-1608.59	6009.35	29.37	-1925.56	-9446.36	-
3.880e+05												
		-3.880e+05	-9446.36	-0.04	0.0	630.0	-1608.59	-5844.72	29.37	-1925.56	9055.53	-
3.362e+05												
4	43	5.715e+05	9355.58	-0.39	-1.185e+04	0.0	-1619.24	5844.73	-29.40	1935.38	9355.58	-
3.361e+05												
		-3.880e+05	-9164.97	0.04	0.0	630.0	-1619.24	-6009.35	-29.40	1935.38	-9164.97	-
3.880e+05												
4	53	5.724e+05	3.163e+04	-0.39	-1.185e+04	0.0	-1612.72	5531.32	100.73	-433.08	-3.182e+04	-
2.374e+05												
		-4.867e+05	-3.182e+04	-0.01	0.0	630.0	-1612.72	-6322.76	100.73	-433.08	3.163e+04	-
4.867e+05												
4	56	5.724e+05	3.173e+04	-0.38	-1.185e+04	0.0	-1615.12	6322.76	-100.76	442.90	3.173e+04	-
4.867e+05												
		-4.867e+05	-3.174e+04	0.01	0.0	630.0	-1615.12	-5531.32	-100.76	442.90	-3.174e+04	-
2.374e+05												
4	57	5.726e+05	2.238e+04	-0.39	-1.185e+04	0.0	-1612.73	5526.99	71.36	677.39	-2.257e+04	-
2.361e+05												
		-4.881e+05	-2.257e+04	0.01	0.0	630.0	-1612.73	-6327.09	71.36	677.39	2.238e+04	-
4.881e+05												
4	60	5.726e+05	2.248e+04	-0.38	-1.185e+04	0.0	-1615.10	6327.09	-71.38	-667.57	2.248e+04	-
4.881e+05												
		-4.881e+05	-2.249e+04	-0.01	0.0	630.0	-1615.10	-5526.99	-71.38	-667.57	-2.249e+04	-
2.360e+05												
4	69	5.714e+05	-45.39	-0.39	-1.185e+04	0.0	-1613.92	5927.04	-0.01	4.91	-45.39	-
3.621e+05												
		-3.621e+05	-54.72	8.87e-05	0.0	630.0	-1613.92	-5927.04	-0.01	4.91	-54.72	-
3.621e+05												
4	70	7.306e+05	-58.84	-0.49	-1.518e+04	0.0	-2075.74	7590.01	-0.02	5.96	-58.84	-
4.648e+05												
		-4.648e+05	-72.41	1.17e-04	0.0	630.0	-2075.74	-7590.01	-0.02	5.96	-72.41	-

4.648e+05												
4	71	5.714e+05	-45.39	-0.39	-1.185e+04	0.0	-1613.92	5927.04	-0.01	4.91	-45.39	-
3.621e+05												
		-3.621e+05	-54.72	8.87e-05	0.0	630.0	-1613.92	-5927.04	-0.01	4.91	-54.72	-
3.621e+05												
4	72	6.033e+05	-48.08	-0.41	-1.252e+04	0.0	-1706.28	6259.63	-0.02	5.12	-48.08	-
3.826e+05												
		-3.826e+05	-58.26	9.43e-05	0.0	630.0	-1706.28	-6259.63	-0.02	5.12	-58.26	-
3.826e+05												
10	2	7.093e+05	-157.96	-0.48	-1.462e+04	0.0	-1949.73	7308.93	0.08	0.43	-209.73	-
4.418e+05												
		-4.418e+05	-209.73	3.12e-04	0.0	630.0	-1949.73	-7308.63	0.08	0.43	-157.96	-
4.418e+05												
10	3	4.190e+05	-84.48	-0.28	-8617.28	0.0	-1141.82	4308.73	0.06	0.10	-119.31	-
2.596e+05												
		-2.596e+05	-119.31	1.72e-04	0.0	630.0	-1141.82	-4308.55	0.06	0.10	-84.48	-
2.596e+05												
10	6	4.198e+05	2661.59	-0.28	-8633.99	0.0	-1182.57	4361.48	7.46	-875.29	-2056.48	-
2.741e+05												
		-2.741e+05	-2056.48	-0.02	0.0	630.0	-1182.57	-4272.51	7.46	-875.29	2661.59	-
2.461e+05												
10	13	4.198e+05	2358.71	-0.29	-8633.99	0.0	-1183.79	4272.40	-6.49	851.15	2358.71	-
2.460e+05												
		-2.742e+05	-1751.40	0.02	0.0	630.0	-1183.79	-4361.59	-6.49	851.15	-1751.40	-
2.742e+05												
10	16	4.198e+05	1581.82	-0.28	-8633.99	0.0	-1103.64	4361.77	6.60	-850.93	-2597.67	-
2.742e+05												
		-2.742e+05	-2597.67	-0.02	0.0	630.0	-1103.64	-4272.22	6.60	-850.93	1581.82	-
2.460e+05												
10	21	4.198e+05	2.220e+04	-0.29	-8633.99	0.0	-1157.39	4172.79	70.42	-124.39	-2.216e+04	-
2.147e+05												
		-3.055e+05	-2.216e+04	-8.04e-03	0.0	630.0	-1157.39	-4461.20	70.42	-124.39	2.220e+04	-
3.055e+05												
10	24	4.198e+05	2.192e+04	-0.28	-8633.99	0.0	-1130.04	4461.38	-70.31	124.60	2.192e+04	-
3.056e+05												
		-3.056e+05	-2.237e+04	8.26e-03	0.0	630.0	-1130.04	-4172.61	-70.31	124.60	-2.237e+04	-
2.146e+05												
10	28	4.198e+05	1.706e+04	-0.28	-8633.99	0.0	-1130.00	4462.08	-54.87	-370.52	1.706e+04	-
3.058e+05												
		-3.058e+05	-1.751e+04	-8.87e-03	0.0	630.0	-1130.00	-4171.92	-54.87	-370.52	-1.751e+04	-
2.144e+05												
10	45	4.198e+05	3845.29	-0.29	-8633.99	0.0	-1206.83	4246.15	-10.43	1350.10	3845.29	-
2.378e+05												
		-2.825e+05	-2762.03	0.04	0.0	630.0	-1206.83	-4387.84	-10.43	1350.10	-2762.03	-
2.825e+05												
10	48	4.198e+05	2592.45	-0.28	-8633.99	0.0	-1080.60	4388.03	10.54	-1349.88	-4084.25	-
2.825e+05												
		-2.825e+05	-4084.25	-0.04	0.0	630.0	-1080.60	-4245.96	10.54	-1349.88	2592.45	-
2.377e+05												
10	53	4.198e+05	3.522e+04	-0.29	-8633.99	0.0	-1165.09	4087.75	111.51	-204.42	-3.504e+04	-
1.879e+05												
		-3.323e+05	-3.504e+04	-0.01	0.0	630.0	-1165.09	-4546.24	111.51	-204.42	3.522e+04	-
3.323e+05												
10	56	4.198e+05	3.480e+04	-0.28	-8633.99	0.0	-1122.34	4546.43	-111.40	204.64	3.480e+04	-
3.324e+05												
		-3.324e+05	-3.539e+04	0.01	0.0	630.0	-1122.34	-4087.57	-111.40	204.64	-3.539e+04	-
1.878e+05												
10	60	4.198e+05	2.706e+04	-0.28	-8633.99	0.0	-1122.29	4547.48	-86.88	-581.93	2.706e+04	-
3.327e+05												
		-3.327e+05	-2.766e+04	-0.01	0.0	630.0	-1122.29	-4086.51	-86.88	-581.93	-2.766e+04	-
1.875e+05												
10	69	4.198e+05	-84.79	-0.28	-8633.99	0.0	-1143.71	4317.09	0.06	0.11	-119.48	-
2.601e+05												
		-2.601e+05	-119.48	1.73e-04	0.0	630.0	-1143.71	-4316.90	0.06	0.11	-84.79	-
2.601e+05												
10	70	5.283e+05	-116.41	-0.36	-1.089e+04	0.0	-1451.05	5442.66	0.06	0.29	-155.63	-
3.289e+05												
		-3.289e+05	-155.63	2.31e-04	0.0	630.0	-1451.05	-5442.44	0.06	0.29	-116.41	-
3.289e+05												
10	71	4.198e+05	-84.79	-0.28	-8633.99	0.0	-1143.71	4317.09	0.06	0.11	-119.48	-
2.601e+05												
		-2.601e+05	-119.48	1.73e-04	0.0	630.0	-1143.71	-4316.90	0.06	0.11	-84.79	-
2.601e+05												
10	72	4.415e+05	-91.11	-0.30	-9084.21	0.0	-1205.18	4542.20	0.06	0.15	-126.71	-
2.739e+05												
		-2.739e+05	-126.71	1.84e-04	0.0	630.0	-1205.18	-4542.01	0.06	0.15	-91.11	-

2.738e+05												
11	2	1.172e+06	138.29	-0.79	-2.475e+04	0.0	-3279.79	1.238e+04	-0.18	8.17	138.29	-
7.775e+05												
		-7.775e+05	22.63	-1.20e-04	0.0	630.0	-3279.79	-1.238e+04	-0.18	8.17	22.63	-
7.775e+05												
11	3	6.746e+05	79.58	-0.45	-1.422e+04	0.0	-1879.55	7111.48	-0.11	5.16	79.58	-
4.454e+05												
		-4.454e+05	9.47	-6.63e-05	0.0	630.0	-1879.55	-7111.53	-0.11	5.16	9.47	-
4.454e+05												
11	7	6.761e+05	1.119e+04	-0.46	-1.425e+04	0.0	-1919.12	7081.98	-38.31	1322.91	1.119e+04	-
4.322e+05												
		-4.604e+05	-1.302e+04	0.02	0.0	630.0	-1919.12	-7171.66	-38.31	1322.91	-1.302e+04	-
4.604e+05												
11	13	6.760e+05	1.282e+04	-0.45	-1.425e+04	0.0	-1846.24	7081.93	-37.35	1291.79	1.282e+04	-
4.323e+05												
		-4.606e+05	-1.078e+04	0.02	0.0	630.0	-1846.24	-7171.71	-37.35	1291.79	-1.078e+04	-
4.606e+05												
11	16	6.761e+05	1.080e+04	-0.45	-1.425e+04	0.0	-1920.19	7171.66	37.12	-1281.47	-1.266e+04	-
4.604e+05												
		-4.604e+05	-1.266e+04	-0.02	0.0	630.0	-1920.19	-7081.98	37.12	-1281.47	1.080e+04	-
4.322e+05												
11	23	6.761e+05	1.326e+04	-0.46	-1.425e+04	0.0	-1892.51	6968.52	-42.81	583.28	1.326e+04	-
3.965e+05												
		-4.962e+05	-1.373e+04	6.96e-03	0.0	630.0	-1892.51	-7285.12	-42.81	583.28	-1.373e+04	-
4.962e+05												
11	25	6.761e+05	1.375e+04	-0.46	-1.425e+04	0.0	-1870.65	6968.50	-42.52	573.95	1.375e+04	-
3.965e+05												
		-4.963e+05	-1.306e+04	6.21e-03	0.0	630.0	-1870.65	-7285.14	-42.52	573.95	-1.306e+04	-
4.963e+05												
11	29	6.761e+05	6575.96	-0.46	-1.425e+04	0.0	-1871.09	6818.06	-19.89	-496.65	6575.96	-
3.491e+05												
		-5.436e+05	-5931.26	-4.32e-03	0.0	630.0	-1871.09	-7435.58	-19.89	-496.65	-5931.26	-
5.436e+05												
11	45	6.760e+05	2.027e+04	-0.46	-1.425e+04	0.0	-1825.83	7055.45	-59.12	2048.82	2.027e+04	-
4.240e+05												
		-4.689e+05	-1.708e+04	0.03	0.0	630.0	-1825.83	-7198.20	-59.12	2048.82	-1.708e+04	-
4.689e+05												
11	48	6.762e+05	1.710e+04	-0.45	-1.425e+04	0.0	-1940.60	7198.14	58.89	-2038.50	-2.011e+04	-
4.687e+05												
		-4.687e+05	-2.011e+04	-0.03	0.0	630.0	-1940.60	-7055.50	58.89	-2038.50	1.710e+04	-
4.238e+05												
11	54	6.760e+05	2.168e+04	-0.45	-1.425e+04	0.0	-1868.59	7378.45	67.23	-912.12	-2.070e+04	-
5.257e+05												
		-5.257e+05	-2.070e+04	-0.01	0.0	630.0	-1868.59	-6875.19	67.23	-912.12	2.168e+04	-
3.671e+05												
11	55	6.761e+05	2.086e+04	-0.46	-1.425e+04	0.0	-1897.84	6875.14	-67.46	922.44	2.086e+04	-
3.671e+05												
		-5.256e+05	-2.167e+04	0.01	0.0	630.0	-1897.84	-7378.50	-67.46	922.44	-2.167e+04	-
5.256e+05												
11	61	6.778e+05	1.037e+04	-0.46	-1.425e+04	0.0	-1864.43	6635.87	-31.41	-789.50	1.037e+04	-
2.918e+05												
		-6.010e+05	-9393.56	-6.92e-03	0.0	630.0	-1864.43	-7617.77	-31.41	-789.50	-9393.56	-
6.010e+05												
11	67	6.779e+05	9588.06	-0.46	-1.425e+04	0.0	-1898.40	6635.90	-31.87	-774.68	9588.06	-
2.917e+05												
		-6.010e+05	-1.046e+04	-6.63e-03	0.0	630.0	-1898.40	-7617.74	-31.87	-774.68	-1.046e+04	-
6.010e+05												
11	69	6.761e+05	79.71	-0.45	-1.425e+04	0.0	-1883.21	7126.79	-0.11	5.16	79.71	-
4.464e+05												
		-4.464e+05	9.55	-6.65e-05	0.0	630.0	-1883.21	-7126.85	-0.11	5.16	9.55	-
4.464e+05												
11	70	8.702e+05	102.74	-0.58	-1.838e+04	0.0	-2435.18	9190.24	-0.14	6.14	102.74	-
5.772e+05												
		-5.772e+05	16.31	-8.88e-05	0.0	630.0	-2435.18	-9190.30	-0.14	6.14	16.31	-
5.772e+05												
11	71	6.761e+05	79.71	-0.45	-1.425e+04	0.0	-1883.21	7126.79	-0.11	5.16	79.71	-
4.464e+05												
		-4.464e+05	9.55	-6.65e-05	0.0	630.0	-1883.21	-7126.85	-0.11	5.16	9.55	-
4.464e+05												
11	72	7.149e+05	84.31	-0.48	-1.508e+04	0.0	-1993.61	7539.48	-0.12	5.36	84.31	-
4.725e+05												
		-4.726e+05	10.90	-7.10e-05	0.0	630.0	-1993.61	-7539.54	-0.12	5.36	10.90	-
4.726e+05												
12	2	1.012e+06	27.46	-0.69	-2.076e+04	0.0	-2936.88	1.038e+04	0.07	-6.29	-15.01	-
6.231e+05												
		-6.231e+05	-15.01	2.05e-05	0.0	630.0	-2936.88	-1.038e+04	0.07	-6.29	27.46	-

6.231e+05												
12	3	5.861e+05	16.32	-0.40	-1.201e+04	0.0	-1690.65	6007.45	0.04	-3.93	-10.33	-
3.600e+05												
		-3.600e+05	-10.33	1.10e-05	0.0	630.0	-1690.65	-6007.49	0.04	-3.93	16.32	-
3.600e+05												
12	6	5.874e+05	1.325e+04	-0.40	-1.204e+04	0.0	-1691.63	6092.50	41.88	-1299.56	-1.314e+04	-
3.836e+05												
		-3.836e+05	-1.314e+04	-0.02	0.0	630.0	-1691.63	-5947.59	41.88	-1299.56	1.325e+04	-
3.379e+05												
12	7	5.874e+05	1.312e+04	-0.40	-1.204e+04	0.0	-1696.02	5947.55	-41.80	1291.69	1.312e+04	-
3.379e+05												
		-3.836e+05	-1.322e+04	0.02	0.0	630.0	-1696.02	-6092.55	-41.80	1291.69	-1.322e+04	-
3.836e+05												
12	10	5.874e+05	5337.48	-0.40	-1.204e+04	0.0	-1691.66	6068.67	16.77	-1316.28	-5224.46	-
3.761e+05												
		-3.761e+05	-5224.46	-0.02	0.0	630.0	-1691.66	-5971.43	16.77	-1316.28	5337.48	-
3.454e+05												
12	27	5.874e+05	8490.92	-0.40	-1.204e+04	0.0	-1694.83	5759.48	-27.00	-195.06	8490.92	-
2.787e+05												
		-4.428e+05	-8518.40	-4.43e-03	0.0	630.0	-1694.83	-6280.61	-27.00	-195.06	-8518.40	-
4.428e+05												
12	29	5.874e+05	1.797e+04	-0.40	-1.204e+04	0.0	-1693.50	5838.98	56.97	-147.18	-1.792e+04	-
3.037e+05												
		-4.178e+05	-1.792e+04	-6.93e-03	0.0	630.0	-1693.50	-6201.11	56.97	-147.18	1.797e+04	-
4.178e+05												
12	32	5.874e+05	1.790e+04	-0.40	-1.204e+04	0.0	-1694.16	6201.07	-56.88	139.31	1.790e+04	-
4.178e+05												
		-4.178e+05	-1.793e+04	6.93e-03	0.0	630.0	-1694.16	-5839.02	-56.88	139.31	-1.793e+04	-
3.037e+05												
12	38	5.874e+05	2.104e+04	-0.40	-1.204e+04	0.0	-1690.73	6135.30	66.52	-2061.89	-2.087e+04	-
3.970e+05												
		-3.970e+05	-2.087e+04	-0.04	0.0	630.0	-1690.73	-5904.80	66.52	-2061.89	2.104e+04	-
3.244e+05												
12	39	5.873e+05	2.084e+04	-0.40	-1.204e+04	0.0	-1696.92	5904.75	-66.44	2054.02	2.084e+04	-
3.245e+05												
		-3.971e+05	-2.101e+04	0.04	0.0	630.0	-1696.92	-6135.34	-66.44	2054.02	-2.101e+04	-
3.971e+05												
12	58	5.889e+05	1.359e+04	-0.39	-1.204e+04	0.0	-1692.39	6434.28	43.04	300.61	-1.353e+04	-
4.912e+05												
		-4.912e+05	-1.353e+04	7.10e-03	0.0	630.0	-1692.39	-5605.82	43.04	300.61	1.359e+04	-
2.303e+05												
12	59	5.889e+05	1.351e+04	-0.40	-1.204e+04	0.0	-1695.26	5605.78	-42.95	-308.48	1.351e+04	-
2.303e+05												
		-4.913e+05	-1.355e+04	-7.07e-03	0.0	630.0	-1695.26	-6434.32	-42.95	-308.48	-1.355e+04	-
4.913e+05												
12	61	5.874e+05	2.855e+04	-0.40	-1.204e+04	0.0	-1693.40	5732.17	90.53	-232.79	-2.848e+04	-
2.701e+05												
		-4.514e+05	-2.848e+04	-0.01	0.0	630.0	-1693.40	-6307.92	90.53	-232.79	2.855e+04	-
4.514e+05												
12	64	5.874e+05	2.846e+04	-0.39	-1.204e+04	0.0	-1694.26	6307.88	-90.44	224.92	2.846e+04	-
4.514e+05												
		-4.514e+05	-2.851e+04	0.01	0.0	630.0	-1694.26	-5732.21	-90.44	224.92	-2.851e+04	-
2.701e+05												
12	69	5.874e+05	16.36	-0.40	-1.204e+04	0.0	-1693.83	6020.03	0.04	-3.94	-10.34	-
3.608e+05												
		-3.608e+05	-10.34	1.10e-05	0.0	630.0	-1693.83	-6020.07	0.04	-3.94	16.36	-
3.608e+05												
12	70	7.519e+05	20.47	-0.51	-1.543e+04	0.0	-2181.65	7714.04	0.05	-4.72	-11.38	-
4.630e+05												
		-4.630e+05	-11.38	1.51e-05	0.0	630.0	-2181.65	-7714.09	0.05	-4.72	20.47	-
4.630e+05												
12	71	5.874e+05	16.36	-0.40	-1.204e+04	0.0	-1693.83	6020.03	0.04	-3.94	-10.34	-
3.608e+05												
		-3.608e+05	-10.34	1.10e-05	0.0	630.0	-1693.83	-6020.07	0.04	-3.94	16.36	-
3.608e+05												
12	72	6.203e+05	17.18	-0.42	-1.272e+04	0.0	-1791.39	6358.83	0.04	-4.09	-10.55	-
3.812e+05												
		-3.812e+05	-10.55	1.18e-05	0.0	630.0	-1791.39	-6358.87	0.04	-4.09	17.18	-
3.812e+05												
14	2	9.582e+05	13.88	-0.65	-1.934e+04	0.0	-2816.09	9671.28	0.09	1.56	-45.69	-
5.650e+05												
		-5.650e+05	-45.69	3.89e-05	0.0	630.0	-2816.09	-9671.36	0.09	1.56	13.88	-
5.650e+05												
14	3	5.565e+05	10.60	-0.38	-1.123e+04	0.0	-1623.59	5615.59	0.06	1.06	-26.78	-
3.279e+05												
		-3.279e+05	-26.78	2.06e-05	0.0	630.0	-1623.59	-5615.63	0.06	1.06	10.60	-

3.279e+05													
14	9	5.577e+05	1.522e+04	-0.38	-1.125e+04	0.0	-1634.25	5564.70	48.93	-1258.25	-1.561e+04	-	
3.089e+05													
		-3.482e+05	-1.561e+04	-0.02	0.0	630.0	-1634.25	-5689.73	48.93	-1258.25	1.522e+04	-	
3.482e+05													
14	18	5.577e+05	1.490e+04	-0.38	-1.125e+04	0.0	-1634.86	5689.41	-47.92	1233.04	1.490e+04	-	
3.481e+05													
		-3.481e+05	-1.529e+04	0.02	0.0	630.0	-1634.86	-5565.02	-47.92	1233.04	-1.529e+04	-	
3.090e+05													
14	19	5.577e+05	1.531e+04	-0.38	-1.125e+04	0.0	-1618.34	5564.98	48.04	-1230.91	-1.496e+04	-	
3.090e+05													
		-3.482e+05	-1.496e+04	-0.02	0.0	630.0	-1618.34	-5689.45	48.04	-1230.91	1.531e+04	-	
3.482e+05													
14	29	5.577e+05	2.298e+04	-0.38	-1.125e+04	0.0	-1628.00	5411.85	73.19	-511.13	-2.313e+04	-	
2.607e+05													
		-3.964e+05	-2.313e+04	-8.06e-03	0.0	630.0	-1628.00	-5842.58	73.19	-511.13	2.298e+04	-	
3.964e+05													
14	32	5.577e+05	2.307e+04	-0.38	-1.125e+04	0.0	-1625.21	5842.54	-73.07	513.25	2.307e+04	-	
3.964e+05													
		-3.964e+05	-2.296e+04	8.09e-03	0.0	630.0	-1625.21	-5411.89	-73.07	513.25	-2.296e+04	-	
2.607e+05													
14	33	5.577e+05	1.747e+04	-0.38	-1.125e+04	0.0	-1628.00	5410.37	55.70	209.67	-1.762e+04	-	
2.603e+05													
		-3.969e+05	-1.762e+04	9.26e-03	0.0	630.0	-1628.00	-5844.05	55.70	209.67	1.747e+04	-	
3.969e+05													
14	41	5.577e+05	2.418e+04	-0.38	-1.125e+04	0.0	-1638.68	5527.81	77.72	-1999.53	-2.479e+04	-	
2.972e+05													
		-3.599e+05	-2.479e+04	-0.04	0.0	630.0	-1638.68	-5726.62	77.72	-1999.53	2.418e+04	-	
3.599e+05													
14	50	5.577e+05	2.370e+04	-0.38	-1.125e+04	0.0	-1639.61	5726.14	-76.19	1958.29	2.370e+04	-	
3.597e+05													
		-3.597e+05	-2.430e+04	0.03	0.0	630.0	-1639.61	-5528.29	-76.19	1958.29	-2.430e+04	-	
2.974e+05													
14	51	5.577e+05	2.432e+04	-0.38	-1.125e+04	0.0	-1613.59	5528.25	76.31	-1956.17	-2.375e+04	-	
2.974e+05													
		-3.597e+05	-2.375e+04	-0.03	0.0	630.0	-1613.59	-5726.18	76.31	-1956.17	2.432e+04	-	
3.597e+05													
14	61	5.577e+05	3.653e+04	-0.39	-1.125e+04	0.0	-1628.82	5284.77	116.32	-812.79	-3.675e+04	-	
2.207e+05													
		-4.364e+05	-3.675e+04	-0.01	0.0	630.0	-1628.82	-5969.66	116.32	-812.79	3.653e+04	-	
4.364e+05													
14	64	5.577e+05	3.670e+04	-0.38	-1.125e+04	0.0	-1624.38	5969.62	-116.20	814.91	3.670e+04	-	
4.364e+05													
		-4.364e+05	-3.651e+04	0.01	0.0	630.0	-1624.38	-5284.81	-116.20	814.91	-3.651e+04	-	
2.207e+05													
14	68	5.577e+05	2.794e+04	-0.38	-1.125e+04	0.0	-1624.38	5971.95	-88.42	-330.17	2.794e+04	-	
4.372e+05													
		-4.372e+05	-2.776e+04	-0.01	0.0	630.0	-1624.38	-5282.48	-88.42	-330.17	-2.776e+04	-	
2.200e+05													
14	69	5.577e+05	10.60	-0.38	-1.125e+04	0.0	-1626.60	5627.19	0.06	1.06	-26.85	-	
3.286e+05													
		-3.286e+05	-26.85	2.07e-05	0.0	630.0	-1626.60	-5627.24	0.06	1.06	10.60	-	
3.286e+05													
14	70	7.124e+05	10.66	-0.49	-1.438e+04	0.0	-2092.26	7190.08	0.07	1.18	-34.00	-	
4.200e+05													
		-4.201e+05	-34.00	2.86e-05	0.0	630.0	-2092.26	-7190.13	0.07	1.18	10.66	-	
4.201e+05													
14	71	5.577e+05	10.60	-0.38	-1.125e+04	0.0	-1626.60	5627.19	0.06	1.06	-26.85	-	
3.286e+05													
		-3.286e+05	-26.85	2.07e-05	0.0	630.0	-1626.60	-5627.24	0.06	1.06	10.60	-	
3.286e+05													
14	72	5.886e+05	10.62	-0.40	-1.188e+04	0.0	-1719.73	5939.77	0.06	1.09	-28.28	-	
3.469e+05													
		-3.469e+05	-28.28	2.23e-05	0.0	630.0	-1719.73	-5939.82	0.06	1.09	10.62	-	
3.469e+05													
19	1	7.834e+04	71.86	-0.04	-1111.50	0.0	-96.05	949.93	-0.44	5.341e+04	71.86	-	
3.727e+04													
		-3.727e+04	-53.85	0.01	0.0	285.0	-96.05	-161.57	-0.44	5.341e+04	-53.85	7.507e+04	
19	2	7.904e+04	113.39	-0.05	-1111.50	0.0	-91.06	958.49	-0.66	7.399e+04	113.39	-	
3.871e+04													
		-3.871e+04	-73.42	0.02	0.0	285.0	-91.06	-153.01	-0.66	7.399e+04	-73.42	7.607e+04	
19	4	6.095e+04	96.39	-0.04	-855.00	0.0	-69.57	739.41	-0.55	6.148e+04	96.39	-	
3.016e+04													
		-3.016e+04	-60.84	0.01	0.0	285.0	-69.57	-115.59	-0.55	6.148e+04	-60.84	5.874e+04	
19	13	7.708e+04	5070.43	-0.04	-855.00	0.0	74.84	560.35	1.64	4.017e+04	4007.76	2.445e+04	
		2.445e+04	4007.76	2.51e-03	0.0	285.0	74.84	-294.65	1.64	4.017e+04	5070.43	6.278e+04	

19	16	5.270e+04	-3897.58	-0.03	-855.00	0.0	-223.19	901.19	-2.32	4.184e+04	-3897.58	-8.183e+04
		-8.183e+04	-5153.14	0.02	0.0	285.0	-223.19	46.19	-2.32	4.184e+04	-5153.14	5.270e+04
19	17	7.704e+04	6181.67	-0.04	-855.00	0.0	85.68	561.41	18.16	3.940e+04	537.51	2.418e+04
		2.418e+04	537.51	-4.14e-03	0.0	285.0	85.68	-293.59	18.16	3.940e+04	6181.67	6.285e+04
19	20	5.262e+04	-427.33	-0.03	-855.00	0.0	-234.03	900.13	-18.84	4.260e+04	-427.33	-8.157e+04
		-8.157e+04	-6264.38	0.02	0.0	285.0	-234.03	45.13	-18.84	4.260e+04	-6264.38	5.262e+04
19	30	6.216e+04	3.092e+04	-0.03	-855.00	0.0	-130.31	700.19	-127.89	4.771e+04	3.092e+04	-1.824e+04
		-1.824e+04	-5726.43	0.04	0.0	285.0	-130.31	-154.81	-127.89	4.771e+04	-5726.43	5.793e+04
19	31	5.879e+04	5643.72	-0.03	-855.00	0.0	-18.05	761.35	127.21	3.430e+04	-3.081e+04	-3.915e+04
		-3.915e+04	-3.081e+04	-0.03	0.0	285.0	-18.05	-93.65	127.21	3.430e+04	5643.72	5.754e+04
19	45	9.140e+04	7925.02	-0.04	-855.00	0.0	158.13	459.89	3.14	3.969e+04	6095.66	5.579e+04
		5.579e+04	6095.66	-3.31e-03	0.0	285.0	158.13	-395.11	3.14	3.969e+04	7925.02	6.574e+04
19	48	4.974e+04	-5985.48	-0.02	-855.00	0.0	-306.48	1001.65	-3.82	4.232e+04	-5985.48	-1.132e+05
		-1.132e+05	-8007.73	0.02	0.0	285.0	-306.48	146.65	-3.82	4.232e+04	-8007.73	4.974e+04
19	49	9.127e+04	9692.86	-0.04	-855.00	0.0	175.46	461.50	29.61	3.846e+04	499.09	5.539e+04
		5.539e+04	499.09	-0.01	0.0	285.0	175.46	-393.50	29.61	3.846e+04	9692.86	6.586e+04
19	52	4.962e+04	-388.91	-0.02	-855.00	0.0	-323.82	1000.03	-30.29	4.355e+04	-388.91	-1.128e+05
		-1.128e+05	-9775.57	0.03	0.0	285.0	-323.82	145.03	-30.29	4.355e+04	-9775.57	4.962e+04
19	62	6.337e+04	4.903e+04	-0.03	-855.00	0.0	-166.57	682.05	-202.97	5.165e+04	4.903e+04	-1.207e+04
		-1.207e+04	-9127.30	0.07	0.0	285.0	-166.57	-172.95	-202.97	5.165e+04	-9127.30	5.806e+04
19	63	5.816e+04	9044.59	-0.03	-855.00	0.0	18.21	779.48	202.30	3.036e+04	-4.892e+04	-4.532e+04
		-4.532e+04	-4.892e+04	-0.05	0.0	285.0	18.21	-75.52	202.30	3.036e+04	9044.59	5.742e+04
19	69	6.026e+04	55.09	-0.03	-855.00	0.0	-74.18	730.77	-0.34	4.100e+04	55.09	-2.869e+04
		-2.869e+04	-41.35	8.94e-03	0.0	285.0	-74.18	-124.23	-0.34	4.100e+04	-41.35	5.774e+04
19	70	6.072e+04	82.78	-0.04	-855.00	0.0	-70.85	736.48	-0.48	5.473e+04	82.78	-2.965e+04
		-2.965e+04	-54.40	0.01	0.0	285.0	-70.85	-118.52	-0.48	5.473e+04	-54.40	5.841e+04
19	71	6.026e+04	55.09	-0.03	-855.00	0.0	-74.18	730.77	-0.34	4.100e+04	55.09	-2.869e+04
		-2.869e+04	-41.35	8.94e-03	0.0	285.0	-74.18	-124.23	-0.34	4.100e+04	-41.35	5.774e+04
19	72	6.034e+04	60.63	-0.03	-855.00	0.0	-73.51	731.91	-0.37	4.375e+04	60.63	-2.888e+04
		-2.888e+04	-43.96	9.54e-03	0.0	285.0	-73.51	-123.09	-0.37	4.375e+04	-43.96	5.787e+04
20	1	7.842e+04	69.43	-0.04	-1111.50	0.0	-93.64	949.62	0.89	-5.342e+04	-182.82	-3.712e+04
		-3.712e+04	-182.82	-0.01	0.0	285.0	-93.64	-161.88	0.89	-5.342e+04	69.43	7.513e+04
20	2	7.912e+04	92.31	-0.05	-1111.50	0.0	-88.25	958.14	1.22	-7.400e+04	-254.45	-3.854e+04
		-3.854e+04	-254.45	-0.02	0.0	285.0	-88.25	-153.36	1.22	-7.400e+04	92.31	7.615e+04
20	4	6.101e+04	76.13	-0.04	-855.00	0.0	-67.31	739.12	1.01	-6.149e+04	-211.66	-3.002e+04
		-3.002e+04	-211.66	-0.01	0.0	285.0	-67.31	-115.88	1.01	-6.149e+04	76.13	5.880e+04
20	6	7.723e+04	-3909.86	-0.04	-855.00	0.0	77.58	559.41	-1.55	-4.018e+04	-3909.86	2.467e+04
		2.467e+04	-4988.11	-2.74e-03	0.0	285.0	77.58	-295.59	-1.55	-4.018e+04	-4988.11	6.290e+04
20	7	5.267e+04	5094.79	-0.03	-855.00	0.0	-222.23	901.65	2.91	-4.184e+04	3629.12	-8.183e+04
		-8.183e+04	3629.12	-0.02	0.0	285.0	-222.23	46.65	2.91	-4.184e+04	5094.79	5.267e+04
20	10	7.710e+04	-528.86	-0.04	-855.00	0.0	88.12	561.10	-17.95	-3.941e+04	-528.86	2.435e+04
		2.435e+04	-6122.15	3.92e-03	0.0	285.0	88.12	-293.90	-17.95	-3.941e+04	-6122.15	6.287e+04
20	11	5.270e+04	6228.83	-0.03	-855.00	0.0	-232.77	899.96	19.31	-4.261e+04	248.12	-8.151e+04
		-8.151e+04	248.12	-0.02	0.0	285.0	-232.77	44.96	19.31	-4.261e+04	6228.83	5.270e+04
20	33	6.229e+04	5685.17	-0.03	-855.00	0.0	-128.60	699.34	128.06	-4.772e+04	-3.098e+04	-1.808e+04
		-1.808e+04	-3.098e+04	-0.04	0.0	285.0	-128.60	-155.66	128.06	-4.772e+04	5685.17	5.806e+04
20	36	5.878e+04	3.070e+04	-0.03	-855.00	0.0	-16.04	761.72	-126.70	-3.430e+04	3.070e+04	-3.907e+04
		-3.907e+04	-5578.49	0.03	0.0	285.0	-16.04	-93.28	-126.70	-3.430e+04	-5578.49	5.752e+04
20	38	9.161e+04	-5897.07	-0.04	-855.00	0.0	161.39	458.58	-3.18	-3.971e+04	-5897.07	5.607e+04
		5.607e+04	-7797.45	3.10e-03	0.0	285.0	161.39	-396.42	-3.18	-3.971e+04	-7797.45	6.589e+04
20	39	4.968e+04	7904.13	-0.02	-855.00	0.0	-306.04	1002.48	4.54	-4.231e+04	5616.33	-1.132e+05
		-1.132e+05	5616.33	-0.02	0.0	285.0	-306.04	147.48	4.54	-4.231e+04	7904.13	4.968e+04
20	42	9.136e+04	-429.66	-0.04	-855.00	0.0	178.28	461.16	-29.49	-3.846e+04	-429.66	5.558e+04
		5.558e+04	-9603.53	0.01	0.0	285.0	178.28	-393.84	-29.49	-3.846e+04	-9603.53	6.585e+04
20	43	4.972e+04	9710.21	-0.02	-855.00	0.0	-322.93	999.90	30.85	-4.356e+04	148.93	-1.127e+05

		-1.127e+05	148.93	-0.03	0.0	285.0	-322.93	144.90	30.85	-4.356e+04	9710.21	4.972e+04
20	65	6.354e+04	9054.23	-0.03	-855.00	0.0	-165.00	680.85	203.03	-5.166e+04	-4.908e+04	-
1.189e+04												
		-1.189e+04	-4.908e+04	-0.07	0.0	285.0	-165.00	-174.15	203.03	-5.166e+04	9054.23	5.822e+04
20	68	5.810e+04	4.880e+04	-0.03	-855.00	0.0	20.35	780.22	-201.67	-3.035e+04	4.880e+04	-
4.527e+04												
		-4.527e+04	-8947.55	0.05	0.0	285.0	20.35	-74.78	-201.67	-3.035e+04	-8947.55	5.735e+04
20	69	6.031e+04	53.34	-0.03	-855.00	0.0	-72.32	730.53	0.68	-4.101e+04	-140.37	-
2.858e+04												
		-2.858e+04	-140.37	-9.13e-03	0.0	285.0	-72.32	-124.47	0.68	-4.101e+04	53.34	5.779e+04
20	70	6.078e+04	68.59	-0.04	-855.00	0.0	-68.73	736.21	0.90	-5.473e+04	-188.12	-
2.952e+04												
		-2.952e+04	-188.12	-0.01	0.0	285.0	-68.73	-118.79	0.90	-5.473e+04	68.59	5.846e+04
20	71	6.031e+04	53.34	-0.03	-855.00	0.0	-72.32	730.53	0.68	-4.101e+04	-140.37	-
2.858e+04												
		-2.858e+04	-140.37	-9.13e-03	0.0	285.0	-72.32	-124.47	0.68	-4.101e+04	53.34	5.779e+04
20	72	6.040e+04	56.39	-0.03	-855.00	0.0	-71.61	731.67	0.72	-4.375e+04	-149.92	-
2.877e+04												
		-2.877e+04	-149.92	-9.74e-03	0.0	285.0	-71.61	-123.33	0.72	-4.375e+04	56.39	5.792e+04
21	1	6.193e+04	-23.94	-0.02	-1170.00	0.0	-78.79	1210.10	0.65	-1.374e+04	-220.23	-
1.256e+05												
		-1.256e+05	-220.23	-3.11e-03	0.0	300.0	-78.79	40.10	0.65	-1.374e+04	-23.94	6.193e+04
21	2	6.233e+04	-35.38	-0.02	-1170.00	0.0	-81.91	1203.66	0.90	-1.900e+04	-306.15	-
1.233e+05												
		-1.233e+05	-306.15	-4.30e-03	0.0	300.0	-81.91	33.66	0.90	-1.900e+04	-35.38	6.233e+04
21	3	4.765e+04	-18.31	-0.02	-900.00	0.0	-61.33	930.84	0.50	-1.052e+04	-168.66	-
9.660e+04												
		-9.660e+04	-168.66	-2.38e-03	0.0	300.0	-61.33	30.84	0.50	-1.052e+04	-18.31	4.765e+04
21	16	4.871e+04	9281.77	-0.02	-900.00	0.0	-12.30	1047.04	-27.44	-9597.49	9281.77	-
1.309e+05												
		-1.309e+05	-767.45	-3.48e-03	0.0	300.0	-12.30	147.04	-27.44	-9597.49	-767.45	4.871e+04
21	20	4.867e+04	1923.01	-0.02	-900.00	0.0	-20.34	1049.40	-23.82	-1.134e+04	1923.01	-
1.315e+05												
		-1.315e+05	-2179.08	-8.43e-03	0.0	300.0	-20.34	149.40	-23.82	-1.134e+04	-2179.08	4.867e+04
21	30	4.792e+04	-1.086e+04	-0.02	-900.00	0.0	-182.13	911.63	-24.16	-1.335e+04	-1.547e+04	-
9.103e+04												
		-9.103e+04	-1.547e+04	-0.01	0.0	300.0	-182.13	11.63	-24.16	-1.335e+04	-1.086e+04	4.792e+04
21	31	4.737e+04	1.513e+04	-0.02	-900.00	0.0	60.29	950.06	25.17	-7743.17	1.513e+04	-
1.022e+05												
		-1.022e+05	1.082e+04	7.03e-03	0.0	300.0	60.29	50.06	25.17	-7743.17	1.082e+04	4.737e+04
21	34	4.789e+04	-1.093e+04	-0.02	-900.00	0.0	-181.62	899.82	-15.02	-1.338e+04	-1.635e+04	-
8.754e+04												
		-8.754e+04	-1.635e+04	-0.01	0.0	300.0	-181.62	-0.18	-15.02	-1.338e+04	-1.093e+04	4.789e+04
21	35	4.740e+04	1.602e+04	-0.02	-900.00	0.0	59.78	961.87	16.02	-7713.89	1.602e+04	-
1.057e+05												
		-1.057e+05	1.089e+04	6.72e-03	0.0	300.0	59.78	61.87	16.02	-7713.89	1.089e+04	4.740e+04
21	46	5.060e+04	-4404.34	-0.02	-900.00	0.0	-202.87	742.62	13.43	-9198.24	-5420.78	-
4.156e+04												
		-4.156e+04	-5420.78	5.75e-03	0.0	300.0	-202.87	-157.38	13.43	-9198.24	-4404.34	4.664e+04
21	52	4.917e+04	3129.75	-0.02	-900.00	0.0	-0.74	1119.35	-38.12	-1.181e+04	3129.75	-
1.520e+05												
		-1.520e+05	-3479.26	-0.01	0.0	300.0	-0.74	219.35	-38.12	-1.181e+04	-3479.26	4.917e+04
21	62	4.811e+04	-1.724e+04	-0.02	-900.00	0.0	-252.25	900.29	-38.68	-1.501e+04	-2.448e+04	-
8.774e+04												
		-8.774e+04	-2.448e+04	-0.02	0.0	300.0	-252.25	0.29	-38.68	-1.501e+04	-1.724e+04	4.811e+04
21	63	4.718e+04	2.414e+04	-0.02	-900.00	0.0	130.41	961.39	39.69	-6085.27	2.414e+04	-
1.055e+05												
		-1.055e+05	1.720e+04	0.01	0.0	300.0	130.41	61.39	39.69	-6085.27	1.720e+04	4.718e+04
21	66	4.805e+04	-1.735e+04	-0.02	-900.00	0.0	-251.27	881.49	-24.18	-1.505e+04	-2.589e+04	-
8.218e+04												
		-8.218e+04	-2.589e+04	-0.02	0.0	300.0	-251.27	-18.51	-24.18	-1.505e+04	-1.735e+04	4.805e+04
21	67	4.724e+04	2.555e+04	-0.02	-900.00	0.0	129.43	980.19	25.19	-6041.75	2.555e+04	-
1.110e+05												
		-1.110e+05	1.731e+04	0.01	0.0	300.0	129.43	80.19	25.19	-6041.75	1.731e+04	4.724e+04
21	69	4.764e+04	-18.37	-0.02	-900.00	0.0	-60.92	930.84	0.50	-1.055e+04	-169.08	-
9.661e+04												
		-9.661e+04	-169.08	-2.39e-03	0.0	300.0	-60.92	30.84	0.50	-1.055e+04	-18.37	4.764e+04
21	70	4.791e+04	-26.00	-0.02	-900.00	0.0	-63.00	926.55	0.67	-1.406e+04	-226.37	-
9.505e+04												
		-9.505e+04	-226.37	-3.18e-03	0.0	300.0	-63.00	26.55	0.67	-1.406e+04	-26.00	4.791e+04
21	71	4.764e+04	-18.37	-0.02	-900.00	0.0	-60.92	930.84	0.50	-1.055e+04	-169.08	-
9.661e+04												
		-9.661e+04	-169.08	-2.39e-03	0.0	300.0	-60.92	30.84	0.50	-1.055e+04	-18.37	4.764e+04
21	72	4.770e+04	-19.89	-0.02	-900.00	0.0	-61.34	929.98	0.54	-1.125e+04	-180.54	-
9.630e+04												
		-9.630e+04	-180.54	-2.55e-03	0.0	300.0	-61.34	29.98	0.54	-1.125e+04	-19.89	4.770e+04

22	1	2.553e+04	19.00	-4.49e-03	-1911.00	0.0	-32.49	950.80	0.12	-3832.54	-40.95	-
9.036e+04												
		-9.267e+04	-40.95	-1.35e-03	0.0	490.0	-32.49	-960.20	0.12	-3832.54	19.00	-
9.267e+04												
22	2	2.495e+04	30.51	-4.52e-03	-1911.00	0.0	-42.10	956.28	0.19	-5310.98	-62.94	-
9.229e+04												
		-9.229e+04	-62.94	-1.89e-03	0.0	490.0	-42.10	-954.72	0.19	-5310.98	30.51	-
9.191e+04												
22	3	1.964e+04	14.54	-3.45e-03	-1470.00	0.0	-25.66	731.37	0.09	-2935.05	-31.31	-
6.951e+04												
		-7.128e+04	-31.31	-1.04e-03	0.0	490.0	-25.66	-738.63	0.09	-2935.05	14.54	-
7.128e+04												
22	5	2.408e+04	309.42	-4.52e-03	-1470.00	0.0	-215.59	567.24	-0.85	-4062.31	309.42	-
2.946e+04												
		-1.116e+05	-44.36	-0.01	0.0	490.0	-215.59	-902.76	-0.85	-4062.31	-44.36	-
1.116e+05												
22	8	2.354e+04	73.53	-4.47e-03	-1470.00	0.0	165.02	895.52	1.04	-1822.55	-372.26	-
1.096e+05												
		-1.096e+05	-372.26	9.78e-03	0.0	490.0	165.02	-574.48	1.04	-1822.55	73.53	-
3.098e+04												
22	10	2.419e+04	6901.33	-4.59e-03	-1470.00	0.0	-167.49	565.93	-0.05	-4414.91	6901.33	-
2.907e+04												
		-1.119e+05	185.54	-8.20e-03	0.0	490.0	-167.49	-904.07	-0.05	-4414.91	185.54	-
1.119e+05												
22	34	1.986e+04	1.395e+04	-3.38e-03	-1470.00	0.0	12.14	694.80	53.72	-7528.27	9894.69	-
6.057e+04												
		-8.032e+04	9894.69	-0.02	0.0	490.0	12.14	-775.20	53.72	-7528.27	1.395e+04	-
8.032e+04												
22	35	1.969e+04	-9957.52	-3.66e-03	-1470.00	0.0	-62.70	767.96	-53.54	1643.41	-9957.52	-
7.844e+04												
		-7.844e+04	-1.392e+04	0.02	0.0	490.0	-62.70	-702.04	-53.54	1643.41	-1.392e+04	-
6.224e+04												
22	37	3.030e+04	504.40	-5.68e-03	-1470.00	0.0	-326.57	470.37	-1.39	-4721.95	504.40	-5813.34
		-1.354e+05	-79.36	-0.02	0.0	490.0	-326.57	-999.63	-1.39	-4721.95	-79.36	-
1.354e+05												
22	40	3.086e+04	108.52	-5.65e-03	-1470.00	0.0	276.00	992.39	1.58	-1162.91	-567.23	-
1.332e+05												
		-1.332e+05	-567.23	0.02	0.0	490.0	276.00	-477.61	1.58	-1162.91	108.52	-7196.78
22	42	3.047e+04	1.098e+04	-5.79e-03	-1470.00	0.0	-250.45	468.29	-0.14	-5282.64	1.098e+04	-5209.33
		-1.359e+05	286.79	-0.01	0.0	490.0	-250.45	-1001.71	-0.14	-5282.64	286.79	-
1.359e+05												
22	43	3.103e+04	-257.63	-5.54e-03	-1470.00	0.0	199.88	994.47	0.33	-602.22	-1.104e+04	-
1.338e+05												
		-1.338e+05	-1.104e+04	0.01	0.0	490.0	199.88	-475.53	0.33	-602.22	-257.63	-6643.24
22	66	2.015e+04	2.215e+04	-3.39e-03	-1470.00	0.0	34.16	673.26	85.27	-1.023e+04	1.573e+04	-
5.531e+04												
		-8.564e+04	1.573e+04	-0.03	0.0	490.0	34.16	-796.74	85.27	-1.023e+04	2.215e+04	-
8.564e+04												
22	67	1.980e+04	-1.579e+04	-3.86e-03	-1470.00	0.0	-84.72	789.51	-85.08	4347.70	-1.579e+04	-
8.371e+04												
		-8.371e+04	-2.212e+04	0.03	0.0	490.0	-84.72	-680.49	-85.08	4347.70	-2.212e+04	-
5.692e+04												
22	69	1.964e+04	14.58	-3.45e-03	-1470.00	0.0	-25.28	731.38	0.09	-2942.43	-31.42	-
6.951e+04												
		-7.128e+04	-31.42	-1.04e-03	0.0	490.0	-25.28	-738.62	0.09	-2942.43	14.58	-
7.128e+04												
22	70	1.925e+04	22.26	-3.47e-03	-1470.00	0.0	-31.69	735.03	0.14	-3928.06	-46.08	-
7.079e+04												
		-7.079e+04	-46.08	-1.39e-03	0.0	490.0	-31.69	-734.97	0.14	-3928.06	22.26	-
7.078e+04												
22	71	1.964e+04	14.58	-3.45e-03	-1470.00	0.0	-25.28	731.38	0.09	-2942.43	-31.42	-
6.951e+04												
		-7.128e+04	-31.42	-1.04e-03	0.0	490.0	-25.28	-738.62	0.09	-2942.43	14.58	-
7.128e+04												
22	72	1.956e+04	16.12	-3.46e-03	-1470.00	0.0	-26.56	732.11	0.10	-3139.55	-34.35	-
6.977e+04												
		-7.118e+04	-34.35	-1.11e-03	0.0	490.0	-26.56	-737.89	0.10	-3139.55	16.12	-
7.118e+04												
23	1	6.192e+04	261.89	-0.02	-1170.00	0.0	-77.14	1210.21	-0.71	1.374e+04	261.89	-
1.256e+05												
		-1.256e+05	48.21	3.09e-03	0.0	300.0	-77.14	40.21	-0.71	1.374e+04	48.21	6.192e+04
23	2	6.232e+04	359.46	-0.02	-1170.00	0.0	-80.05	1203.78	-0.98	1.900e+04	359.46	-
1.233e+05												
		-1.233e+05	65.80	4.28e-03	0.0	300.0	-80.05	33.78	-0.98	1.900e+04	65.80	6.232e+04
23	3	4.764e+04	200.65	-0.02	-900.00	0.0	-60.06	930.92	-0.55	1.052e+04	200.65	-
9.664e+04												

		-9.664e+04	36.94	2.37e-03	0.0	300.0	-60.06	30.92	-0.55	1.052e+04	36.94	4.764e+04
23	7	4.877e+04	812.60	-0.02	-900.00	0.0	-11.21	1047.14	27.87	9609.09	-9405.77	-
1.310e+05												
		-1.310e+05	-9405.77	3.45e-03	0.0	300.0	-11.21	147.14	27.87	9609.09	812.60	4.877e+04
23	11	4.875e+04	2212.44	-0.02	-900.00	0.0	-19.08	1050.24	24.22	1.135e+04	-2010.99	-
1.316e+05												
		-1.316e+05	-2010.99	8.38e-03	0.0	300.0	-19.08	150.24	24.22	1.135e+04	2212.44	4.875e+04
23	29	4.812e+04	1.646e+04	-0.02	-900.00	0.0	-180.21	901.27	14.74	1.337e+04	1.646e+04	-
8.765e+04												
		-8.765e+04	1.097e+04	0.01	0.0	300.0	-180.21	1.27	14.74	1.337e+04	1.097e+04	4.812e+04
23	32	4.715e+04	-1.089e+04	-0.02	-900.00	0.0	60.91	960.58	-15.84	7724.44	-1.605e+04	-
1.056e+05												
		-1.056e+05	-1.605e+04	-6.72e-03	0.0	300.0	60.91	60.58	-15.84	7724.44	-1.089e+04	4.715e+04
23	33	4.816e+04	1.549e+04	-0.02	-900.00	0.0	-180.83	913.04	23.87	1.334e+04	1.549e+04	-
9.113e+04												
		-9.113e+04	1.090e+04	0.01	0.0	300.0	-180.83	13.04	23.87	1.334e+04	1.090e+04	4.816e+04
23	36	4.711e+04	-1.082e+04	-0.02	-900.00	0.0	61.53	948.81	-24.96	7749.75	-1.509e+04	-
1.022e+05												
		-1.022e+05	-1.509e+04	-7.02e-03	0.0	300.0	61.53	48.81	-24.96	7749.75	-1.082e+04	4.711e+04
23	37	5.069e+04	5618.70	-0.02	-900.00	0.0	-201.73	741.73	-14.21	9176.37	5618.70	-
4.139e+04												
		-4.139e+04	4438.26	-5.75e-03	0.0	300.0	-201.73	-158.27	-14.21	9176.37	4438.26	4.671e+04
23	43	4.929e+04	3522.41	-0.02	-900.00	0.0	0.52	1120.63	38.78	1.183e+04	-3288.80	-
1.523e+05												
		-1.523e+05	-3288.80	0.01	0.0	300.0	0.52	220.63	38.78	1.183e+04	3522.41	4.929e+04
23	61	4.843e+04	2.603e+04	-0.02	-900.00	0.0	-249.81	883.73	23.77	1.503e+04	2.603e+04	-
8.234e+04												
		-8.234e+04	1.740e+04	0.02	0.0	300.0	-249.81	-16.27	23.77	1.503e+04	1.740e+04	4.843e+04
23	64	4.684e+04	-1.733e+04	-0.02	-900.00	0.0	130.50	978.12	-24.86	6059.68	-2.563e+04	-
1.109e+05												
		-1.109e+05	-2.563e+04	-0.01	0.0	300.0	130.50	78.12	-24.86	6059.68	-1.733e+04	4.684e+04
23	65	4.849e+04	2.449e+04	-0.02	-900.00	0.0	-250.96	902.47	38.24	1.500e+04	2.449e+04	-
8.788e+04												
		-8.788e+04	1.729e+04	0.02	0.0	300.0	-250.96	2.47	38.24	1.500e+04	1.729e+04	4.849e+04
23	68	4.677e+04	-1.722e+04	-0.02	-900.00	0.0	131.65	959.38	-39.33	6096.67	-2.408e+04	-
1.054e+05												
		-1.054e+05	-2.408e+04	-0.01	0.0	300.0	131.65	59.38	-39.33	6096.67	-1.722e+04	4.677e+04
23	69	4.763e+04	201.10	-0.02	-900.00	0.0	-59.65	930.93	-0.55	1.055e+04	201.10	-
9.664e+04												
		-9.664e+04	37.02	2.37e-03	0.0	300.0	-59.65	30.93	-0.55	1.055e+04	37.02	4.763e+04
23	70	4.790e+04	266.15	-0.02	-900.00	0.0	-61.59	926.64	-0.72	1.406e+04	266.15	-
9.509e+04												
		-9.509e+04	48.75	3.16e-03	0.0	300.0	-61.59	26.64	-0.72	1.406e+04	48.75	4.790e+04
23	71	4.763e+04	201.10	-0.02	-900.00	0.0	-59.65	930.93	-0.55	1.055e+04	201.10	-
9.664e+04												
		-9.664e+04	37.02	2.37e-03	0.0	300.0	-59.65	30.93	-0.55	1.055e+04	37.02	4.763e+04
23	72	4.769e+04	214.11	-0.02	-900.00	0.0	-60.04	930.07	-0.58	1.125e+04	214.11	-
9.633e+04												
		-9.633e+04	39.37	2.53e-03	0.0	300.0	-60.04	30.07	-0.58	1.125e+04	39.37	4.769e+04
24	1	2.555e+04	105.42	-4.48e-03	-1911.00	0.0	-33.59	950.70	-0.40	3839.89	105.42	-
9.032e+04												
		-9.268e+04	-90.04	1.54e-03	0.0	490.0	-33.59	-960.30	-0.40	3839.89	-90.04	-
9.268e+04												
24	2	2.497e+04	143.55	-4.50e-03	-1911.00	0.0	-43.29	956.13	-0.54	5320.50	143.55	-
9.224e+04												
		-9.224e+04	-119.07	2.13e-03	0.0	490.0	-43.29	-954.87	-0.54	5320.50	-119.07	-
9.193e+04												
24	3	1.966e+04	80.73	-3.44e-03	-1470.00	0.0	-26.52	731.29	-0.31	2940.68	80.73	-
6.947e+04												
		-7.129e+04	-68.99	1.18e-03	0.0	490.0	-26.52	-738.71	-0.31	2940.68	-68.99	-
7.129e+04												
24	14	2.407e+04	-119.60	-4.51e-03	-1470.00	0.0	-216.43	567.51	0.21	4066.74	-162.09	-
2.950e+04												
		-1.115e+05	-162.09	0.01	0.0	490.0	-216.43	-902.49	0.21	4066.74	-119.60	-
1.115e+05												
24	15	2.354e+04	323.95	-4.45e-03	-1470.00	0.0	164.16	895.09	-0.82	1829.41	323.95	-
1.095e+05												
		-1.095e+05	-18.69	-9.78e-03	0.0	490.0	164.16	-574.91	-0.82	1829.41	-18.69	-
3.105e+04												
24	17	2.418e+04	-351.08	-4.57e-03	-1470.00	0.0	-168.59	566.15	-0.61	4418.83	-6777.30	-
2.913e+04												
		-1.119e+05	-6777.30	8.47e-03	0.0	490.0	-168.59	-903.85	-0.61	4418.83	-351.08	-
1.119e+05												
24	29	1.986e+04	-9873.29	-3.37e-03	-1470.00	0.0	10.73	694.82	-54.21	7533.09	-9873.29	-
6.060e+04												
		-8.029e+04	-1.405e+04	0.02	0.0	490.0	10.73	-775.18	-54.21	7533.09	-1.405e+04	-

8.029e+04												
24	32	1.972e+04	1.391e+04	-3.66e-03	-1470.00	0.0	-63.00	767.77	53.60	-1636.94	1.004e+04	-
7.836e+04												
		-7.836e+04	1.004e+04	-0.02	0.0	490.0	-63.00	-702.23	53.60	-1636.94	1.391e+04	-
6.228e+04												
24	46	3.028e+04	-148.33	-5.67e-03	-1470.00	0.0	-327.41	470.85	0.51	4725.93	-299.36	-5897.61
		-1.353e+05	-299.36	0.02	0.0	490.0	-327.41	-999.15	0.51	4725.93	-148.33	-
1.353e+05												
24	47	3.083e+04	461.22	-5.63e-03	-1470.00	0.0	275.14	991.75	-1.12	1170.22	461.22	-
1.331e+05												
		-1.331e+05	10.04	-0.02	0.0	490.0	275.14	-478.25	-1.12	1170.22	10.04	-7312.71
24	49	3.045e+04	-517.08	-5.77e-03	-1470.00	0.0	-251.70	468.70	-0.78	5285.80	-1.081e+04	-5313.88
		-1.358e+05	-1.081e+04	0.01	0.0	490.0	-251.70	-1001.30	-0.78	5285.80	-517.08	-
1.358e+05												
24	52	3.100e+04	1.097e+04	-5.52e-03	-1470.00	0.0	199.43	993.90	0.16	610.35	1.097e+04	-
1.336e+05												
		-1.336e+05	378.80	-0.01	0.0	490.0	199.43	-476.10	0.16	610.35	378.80	-6771.08
24	61	2.015e+04	-1.572e+04	-3.37e-03	-1470.00	0.0	32.44	673.34	-85.91	1.024e+04	-1.572e+04	-
5.536e+04												
		-8.560e+04	-2.228e+04	0.03	0.0	490.0	32.44	-796.66	-85.91	1.024e+04	-2.228e+04	-
8.560e+04												
24	64	1.981e+04	2.214e+04	-3.86e-03	-1470.00	0.0	-84.71	789.26	85.30	-4340.65	1.589e+04	-
8.359e+04												
		-8.359e+04	1.589e+04	-0.03	0.0	490.0	-84.71	-680.74	85.30	-4340.65	2.214e+04	-
5.698e+04												
24	69	1.966e+04	80.93	-3.45e-03	-1470.00	0.0	-26.13	731.30	-0.31	2948.08	80.93	-
6.948e+04												
		-7.129e+04	-69.14	1.19e-03	0.0	490.0	-26.13	-738.70	-0.31	2948.08	-69.14	-
7.129e+04												
24	70	1.927e+04	106.36	-3.46e-03	-1470.00	0.0	-32.60	734.92	-0.40	3935.15	106.36	-
7.075e+04												
		-7.079e+04	-88.50	1.57e-03	0.0	490.0	-32.60	-735.08	-0.40	3935.15	-88.50	-
7.079e+04												
24	71	1.966e+04	80.93	-3.45e-03	-1470.00	0.0	-26.13	731.30	-0.31	2948.08	80.93	-
6.948e+04												
		-7.129e+04	-69.14	1.19e-03	0.0	490.0	-26.13	-738.70	-0.31	2948.08	-69.14	-
7.129e+04												
24	72	1.958e+04	86.02	-3.45e-03	-1470.00	0.0	-27.43	732.02	-0.32	3145.49	86.02	-
6.973e+04												
		-7.119e+04	-73.01	1.26e-03	0.0	490.0	-27.43	-737.98	-0.32	3145.49	-73.01	-
7.119e+04												
25	1	2.152e+04	78.35	6.20e-03	-1638.00	0.0	-28.79	919.54	-0.10	3.321e+04	78.35	-
8.685e+04												
		-8.685e+04	37.60	0.01	0.0	420.0	-28.79	-718.46	-0.10	3.321e+04	37.60	-
4.462e+04												
25	2	2.207e+04	112.85	8.92e-03	-1638.00	0.0	-47.43	918.86	-0.16	4.604e+04	112.85	-
8.614e+04												
		-8.614e+04	47.61	0.01	0.0	420.0	-47.43	-719.14	-0.16	4.604e+04	47.61	-
4.420e+04												
25	3	1.658e+04	60.00	4.76e-03	-1260.00	0.0	-22.92	707.51	-0.07	2.543e+04	60.00	-
6.682e+04												
		-6.682e+04	28.86	8.21e-03	0.0	420.0	-22.92	-552.49	-0.07	2.543e+04	28.86	-
3.427e+04												
25	5	1.932e+04	1.040e+04	4.88e-03	-1260.00	0.0	-374.39	524.95	-52.50	2.689e+04	1.040e+04	-
2.627e+04												
		-7.039e+04	-1.170e+04	0.02	0.0	420.0	-374.39	-735.05	-52.50	2.689e+04	-1.170e+04	-
7.039e+04												
25	7	2.486e+04	1979.77	4.69e-03	-1260.00	0.0	280.15	894.33	-4.92	2.738e+04	1979.77	-
1.083e+05												
		-1.083e+05	-127.60	0.02	0.0	420.0	280.15	-365.67	-4.92	2.738e+04	-127.60	2675.96
25	8	2.456e+04	1.175e+04	5.08e-03	-1260.00	0.0	329.42	889.87	52.35	2.411e+04	-1.028e+04	-
1.074e+05												
		-1.074e+05	-1.028e+04	-3.51e-03	0.0	420.0	329.42	-370.13	52.35	2.411e+04	1.175e+04	1788.65
25	21	1.619e+04	2.176e+04	4.09e-03	-1260.00	0.0	-202.78	659.43	-102.65	3.087e+04	2.176e+04	-
5.614e+04												
		-5.614e+04	-2.151e+04	0.05	0.0	420.0	-202.78	-600.57	-102.65	3.087e+04	-2.151e+04	-
4.378e+04												
25	24	1.741e+04	2.157e+04	5.44e-03	-1260.00	0.0	157.82	755.39	102.50	2.012e+04	-2.164e+04	-
7.748e+04												
		-7.748e+04	-2.164e+04	-0.03	0.0	420.0	157.82	-504.61	102.50	2.012e+04	2.157e+04	-
2.482e+04												
25	37	2.668e+04	1.648e+04	5.26e-03	-1260.00	0.0	-581.79	417.28	-83.31	2.771e+04	1.648e+04	-2341.97
		-9.169e+04	-1.859e+04	0.03	0.0	420.0	-581.79	-842.72	-83.31	2.771e+04	-1.859e+04	-
9.169e+04												
25	39	3.532e+04	3113.00	5.77e-03	-1260.00	0.0	459.01	1004.63	-7.83	2.848e+04	3113.00	-
1.328e+05												

		-1.328e+05	-238.56	0.03	0.0	420.0	459.01	-255.37	-7.83	2.848e+04	-238.56	2.450e+04
25	40	3.448e+04	1.865e+04	5.80e-03	-1260.00	0.0	536.82	997.55	83.16	2.329e+04	-1.636e+04	-
1.313e+05												
		-1.313e+05	-1.636e+04	-9.63e-03	0.0	420.0	536.82	-262.45	83.16	2.329e+04	1.865e+04	2.309e+04
25	53	1.654e+04	3.451e+04	3.74e-03	-1260.00	0.0	-308.29	631.11	-163.04	3.404e+04	3.451e+04	-
4.985e+04												
		-4.985e+04	-3.420e+04	0.07	0.0	420.0	-308.29	-628.89	-163.04	3.404e+04	-3.420e+04	-
4.938e+04												
25	56	1.791e+04	3.426e+04	5.83e-03	-1260.00	0.0	263.32	783.71	162.89	1.696e+04	-3.439e+04	-
8.378e+04												
		-8.378e+04	-3.439e+04	-0.05	0.0	420.0	263.32	-476.29	162.89	1.696e+04	3.426e+04	-
1.922e+04												
25	69	1.657e+04	60.16	4.76e-03	-1260.00	0.0	-22.48	707.41	-0.07	2.550e+04	60.16	-
6.681e+04												
		-6.681e+04	28.90	8.23e-03	0.0	420.0	-22.48	-552.59	-0.07	2.550e+04	28.90	-
3.430e+04												
25	70	1.693e+04	83.16	6.57e-03	-1260.00	0.0	-34.91	706.96	-0.11	3.405e+04	83.16	-
6.634e+04												
		-6.634e+04	35.57	0.01	0.0	420.0	-34.91	-553.04	-0.11	3.405e+04	35.57	-
3.402e+04												
25	71	1.657e+04	60.16	4.76e-03	-1260.00	0.0	-22.48	707.41	-0.07	2.550e+04	60.16	-
6.681e+04												
		-6.681e+04	28.90	8.23e-03	0.0	420.0	-22.48	-552.59	-0.07	2.550e+04	28.90	-
3.430e+04												
25	72	1.664e+04	64.76	5.13e-03	-1260.00	0.0	-24.97	707.32	-0.08	2.721e+04	64.76	-
6.672e+04												
		-6.672e+04	30.23	8.78e-03	0.0	420.0	-24.97	-552.68	-0.08	2.721e+04	30.23	-
3.424e+04												
26	1	7.134e+04	31.95	-0.04	-1170.00	0.0	-88.20	1177.58	0.19	3836.09	-24.72	-
1.064e+05												
		-1.064e+05	-24.72	8.50e-04	0.0	300.0	-88.20	7.58	0.19	3836.09	31.95	7.134e+04
26	2	7.189e+04	44.16	-0.04	-1170.00	0.0	-99.68	1179.26	0.25	5327.09	-31.01	-
1.064e+05												
		-1.064e+05	-31.01	1.18e-03	0.0	300.0	-99.68	9.26	0.25	5327.09	44.16	7.189e+04
26	3	5.487e+04	24.48	-0.03	-900.00	0.0	-68.56	905.82	0.14	2937.45	-18.97	-
8.188e+04												
		-8.188e+04	-18.97	6.51e-04	0.0	300.0	-68.56	5.82	0.14	2937.45	24.48	5.487e+04
26	5	5.599e+04	3619.25	-0.03	-900.00	0.0	-325.38	790.43	-2.05	2912.79	3606.21	-
4.749e+04												
		-4.749e+04	3606.21	-1.65e-03	0.0	300.0	-325.38	-109.57	-2.05	2912.79	3619.25	5.398e+04
26	7	5.533e+04	3236.04	-0.03	-900.00	0.0	113.94	1024.46	32.94	2396.93	-7152.06	-
1.169e+05												
		-1.169e+05	-7152.06	-3.46e-03	0.0	300.0	113.94	124.46	32.94	2396.93	3236.04	5.533e+04
26	8	5.577e+04	-3570.18	-0.03	-900.00	0.0	189.06	1021.23	2.34	2977.25	-3644.20	-
1.163e+05												
		-1.163e+05	-3644.20	2.46e-03	0.0	300.0	189.06	121.23	2.34	2977.25	-3570.18	5.577e+04
26	10	5.658e+04	6940.36	-0.03	-900.00	0.0	-258.94	787.04	-30.04	2424.60	6940.36	-
4.689e+04												
		-4.689e+04	-2388.97	2.56e-03	0.0	300.0	-258.94	-112.96	-30.04	2424.60	-2388.97	5.458e+04
26	21	5.408e+04	1.143e+04	-0.03	-900.00	0.0	-259.26	876.11	45.90	2055.19	-4251.69	-
7.259e+04												
		-7.259e+04	-4251.69	-7.90e-03	0.0	300.0	-259.26	-23.89	45.90	2055.19	1.143e+04	5.395e+04
26	24	5.580e+04	4213.70	-0.03	-900.00	0.0	122.94	935.54	-45.61	3834.85	4213.70	-
9.115e+04												
		-9.115e+04	-1.138e+04	9.18e-03	0.0	300.0	122.94	35.54	-45.61	3834.85	-1.138e+04	5.580e+04
26	37	5.909e+04	5766.61	-0.03	-900.00	0.0	-476.75	722.24	-3.38	2896.45	5766.61	-
2.719e+04												
		-2.719e+04	5730.58	-2.87e-03	0.0	300.0	-476.75	-177.76	-3.38	2896.45	5730.58	5.366e+04
26	39	5.544e+04	5137.03	-0.03	-900.00	0.0	221.35	1094.36	52.18	2081.33	-1.132e+04	-
1.376e+05												
		-1.376e+05	-1.132e+04	-5.89e-03	0.0	300.0	221.35	194.36	52.18	2081.33	5137.03	5.544e+04
26	40	5.609e+04	-5681.51	-0.03	-900.00	0.0	340.44	1089.41	3.67	2993.59	-5804.60	-
1.366e+05												
		-1.366e+05	-5804.60	3.67e-03	0.0	300.0	340.44	189.41	3.67	2993.59	-5681.51	5.609e+04
26	42	6.001e+04	1.103e+04	-0.03	-900.00	0.0	-371.41	716.96	-47.79	2115.84	1.103e+04	-
2.625e+04												
		-2.625e+04	-3814.05	3.68e-03	0.0	300.0	-371.41	-183.04	-47.79	2115.84	-3814.05	5.458e+04
26	53	5.385e+04	1.814e+04	-0.03	-900.00	0.0	-371.36	858.24	72.66	1546.86	-6643.19	-
6.709e+04												
		-6.709e+04	-6643.19	-0.01	0.0	300.0	-371.36	-41.76	72.66	1546.86	1.814e+04	5.352e+04
26	56	5.623e+04	6605.20	-0.03	-900.00	0.0	235.04	953.41	-72.37	4343.18	6605.20	-
9.666e+04												
		-9.666e+04	-1.810e+04	0.01	0.0	300.0	235.04	53.41	-72.37	4343.18	-1.810e+04	5.623e+04
26	69	5.487e+04	24.54	-0.03	-900.00	0.0	-68.16	905.83	0.15	2945.02	-18.99	-
8.187e+04												
		-8.187e+04	-18.99	6.52e-04	0.0	300.0	-68.16	5.83	0.15	2945.02	24.54	5.487e+04

26	70	5.524e+04	32.68	-0.03	-900.00	0.0	-75.81	906.95	0.19	3939.02	-23.19	-
8.184e+04												
		-8.184e+04	-23.19	8.71e-04	0.0	300.0	-75.81	6.95	0.19	3939.02	32.68	5.524e+04
26	71	5.487e+04	24.54	-0.03	-900.00	0.0	-68.16	905.83	0.15	2945.02	-18.99	-
8.187e+04												
		-8.187e+04	-18.99	6.52e-04	0.0	300.0	-68.16	5.83	0.15	2945.02	24.54	5.487e+04
26	72	5.495e+04	26.16	-0.03	-900.00	0.0	-69.69	906.05	0.15	3143.82	-19.83	-
8.187e+04												
		-8.187e+04	-19.83	6.96e-04	0.0	300.0	-69.69	6.05	0.15	3143.82	26.16	5.495e+04
27	1	7.132e+04	12.91	-0.04	-1170.00	0.0	-89.83	1177.54	-0.18	-3833.72	12.91	-
1.064e+05												
		-1.064e+05	-40.61	-8.13e-04	0.0	300.0	-89.83	7.54	-0.18	-3833.72	-40.61	7.132e+04
27	2	7.186e+04	15.05	-0.04	-1170.00	0.0	-101.48	1179.21	-0.23	-5324.19	15.05	-
1.064e+05												
		-1.064e+05	-55.34	-1.13e-03	0.0	300.0	-101.48	9.21	-0.23	-5324.19	-55.34	7.186e+04
27	3	5.485e+04	9.95	-0.03	-900.00	0.0	-69.82	905.79	-0.14	-2935.63	9.95	-
8.188e+04												
		-8.188e+04	-31.11	-6.22e-04	0.0	300.0	-69.82	5.79	-0.14	-2935.63	-31.11	5.485e+04
27	14	5.603e+04	-3509.62	-0.03	-900.00	0.0	-326.31	790.33	1.73	-2914.06	-3509.62	-
4.755e+04												
		-4.755e+04	-3625.92	1.66e-03	0.0	300.0	-326.31	-109.67	1.73	-2914.06	-3625.92	5.404e+04
27	15	5.567e+04	3563.56	-0.03	-900.00	0.0	187.48	1021.26	-2.00	-2972.34	3529.50	-
1.162e+05												
		-1.162e+05	3529.50	-2.43e-03	0.0	300.0	187.48	121.26	-2.00	-2972.34	3563.56	5.567e+04
27	16	5.534e+04	7042.57	-0.03	-900.00	0.0	112.52	1023.87	-32.61	-2391.66	7042.57	-
1.169e+05												
		-1.169e+05	-3242.17	3.48e-03	0.0	300.0	112.52	123.87	-32.61	-2391.66	-3242.17	5.534e+04
27	17	5.648e+04	2383.16	-0.03	-900.00	0.0	-259.97	787.74	29.71	-2425.71	-6844.71	-
4.699e+04												
		-4.699e+04	-6844.71	-2.53e-03	0.0	300.0	-259.97	-112.26	29.71	-2425.71	2383.16	5.448e+04
27	26	5.424e+04	4282.21	-0.03	-900.00	0.0	-260.18	875.12	-45.99	-2053.76	4282.21	-
7.256e+04												
		-7.256e+04	-1.143e+04	7.93e-03	0.0	300.0	-260.18	-24.88	-45.99	-2053.76	-1.143e+04	5.411e+04
27	27	5.560e+04	1.137e+04	-0.03	-900.00	0.0	121.35	936.47	45.72	-3832.64	-4262.33	-
9.120e+04												
		-9.120e+04	-4262.33	-9.15e-03	0.0	300.0	121.35	36.47	45.72	-3832.64	1.137e+04	5.560e+04
27	46	5.914e+04	-5608.73	-0.03	-900.00	0.0	-477.45	722.12	2.86	-2899.83	-5608.73	-
2.728e+04												
		-2.728e+04	-5736.62	2.87e-03	0.0	300.0	-477.45	-177.88	2.86	-2899.83	-5736.62	5.374e+04
27	47	5.597e+04	5674.26	-0.03	-900.00	0.0	338.62	1089.47	-3.14	-2986.57	5628.61	-
1.365e+05												
		-1.365e+05	5628.61	-3.63e-03	0.0	300.0	338.62	189.47	-3.14	-2986.57	5674.26	5.597e+04
27	48	5.548e+04	1.115e+04	-0.03	-900.00	0.0	219.87	1093.46	-51.65	-2073.75	1.115e+04	-
1.375e+05												
		-1.375e+05	-5143.50	5.90e-03	0.0	300.0	219.87	193.46	-51.65	-2073.75	-5143.50	5.548e+04
27	49	5.986e+04	3809.36	-0.03	-900.00	0.0	-372.31	718.08	47.27	-2118.97	-1.088e+04	-
2.639e+04												
		-2.639e+04	-1.088e+04	-3.65e-03	0.0	300.0	-372.31	-181.92	47.27	-2118.97	3809.36	5.442e+04
27	58	5.409e+04	6695.78	-0.03	-900.00	0.0	-371.93	856.75	-72.81	-1545.75	6695.78	-
6.703e+04												
		-6.703e+04	-1.815e+04	0.01	0.0	300.0	-371.93	-43.25	-72.81	-1545.75	-1.815e+04	5.377e+04
27	59	5.594e+04	1.809e+04	-0.03	-900.00	0.0	233.10	954.84	72.54	-4340.65	-6675.90	-
9.673e+04												
		-9.673e+04	-6675.90	-0.01	0.0	300.0	233.10	54.84	72.54	-4340.65	1.809e+04	5.594e+04
27	69	5.486e+04	9.94	-0.03	-900.00	0.0	-69.41	905.80	-0.14	-2943.20	9.94	-
8.188e+04												
		-8.188e+04	-31.18	-6.24e-04	0.0	300.0	-69.41	5.80	-0.14	-2943.20	-31.18	5.486e+04
27	70	5.522e+04	11.36	-0.03	-900.00	0.0	-77.18	906.91	-0.17	-3936.84	11.36	-
8.186e+04												
		-8.186e+04	-41.00	-8.37e-04	0.0	300.0	-77.18	6.91	-0.17	-3936.84	-41.00	5.522e+04
27	71	5.486e+04	9.94	-0.03	-900.00	0.0	-69.41	905.80	-0.14	-2943.20	9.94	-
8.188e+04												
		-8.188e+04	-31.18	-6.24e-04	0.0	300.0	-69.41	5.80	-0.14	-2943.20	-31.18	5.486e+04
27	72	5.493e+04	10.22	-0.03	-900.00	0.0	-70.97	906.02	-0.14	-3141.93	10.22	-
8.188e+04												
		-8.188e+04	-33.14	-6.67e-04	0.0	300.0	-70.97	6.02	-0.14	-3141.93	-33.14	5.493e+04
28	1	2.154e+04	26.78	6.16e-03	-1638.00	0.0	-29.57	919.60	0.34	-3.321e+04	-114.34	-
8.684e+04												
		-8.684e+04	-114.34	-0.01	0.0	420.0	-29.57	-718.40	0.34	-3.321e+04	26.78	-
4.459e+04												
28	2	2.209e+04	33.62	8.87e-03	-1638.00	0.0	-48.22	918.95	0.46	-4.604e+04	-159.07	-
8.613e+04												
		-8.613e+04	-159.07	-0.01	0.0	420.0	-48.22	-719.05	0.46	-4.604e+04	33.62	-
4.416e+04												
28	3	1.659e+04	20.54	4.73e-03	-1260.00	0.0	-23.53	707.55	0.26	-2.543e+04	-87.51	-
6.682e+04												

		-6.682e+04	-87.51	-8.21e-03	0.0	420.0	-23.53	-552.45	0.26	-2.543e+04	20.54	-3.425e+04
28	14	1.935e+04	1.162e+04	4.86e-03	-1260.00	0.0	-374.35	525.40	52.07	-2.689e+04	-1.030e+04	-2.633e+04
		-7.026e+04	-1.030e+04	-0.02	0.0	420.0	-374.35	-734.60	52.07	-2.689e+04	1.162e+04	-7.026e+04
28	15	2.452e+04	1.013e+04	5.03e-03	-1260.00	0.0	328.17	889.51	-51.56	-2.410e+04	1.013e+04	-1.073e+05
		-1.073e+05	-1.158e+04	2.40e-03	0.0	420.0	328.17	-370.49	-51.56	-2.410e+04	-1.158e+04	1703.98
28	16	2.484e+04	279.80	4.66e-03	-1260.00	0.0	278.99	893.83	5.64	-2.738e+04	-2130.94	-1.082e+05
		-1.082e+05	-2130.94	-0.02	0.0	420.0	278.99	-366.17	5.64	-2.738e+04	279.80	2583.73
28	26	1.624e+04	2.148e+04	4.08e-03	-1260.00	0.0	-203.06	659.40	102.55	-3.088e+04	-2.174e+04	-5.609e+04
		-5.609e+04	-2.174e+04	-0.05	0.0	420.0	-203.06	-600.60	102.55	-3.088e+04	2.148e+04	-4.374e+04
28	27	1.739e+04	2.157e+04	5.39e-03	-1260.00	0.0	156.89	755.51	-102.04	-2.011e+04	2.157e+04	-7.753e+04
		-7.753e+04	-2.144e+04	0.03	0.0	420.0	156.89	-504.49	-102.04	-2.011e+04	-2.144e+04	-2.482e+04
28	46	2.668e+04	1.844e+04	5.25e-03	-1260.00	0.0	-581.38	417.97	82.52	-2.771e+04	-1.630e+04	-2439.03
		-9.149e+04	-1.630e+04	-0.02	0.0	420.0	-581.38	-842.03	82.52	-2.771e+04	1.844e+04	-9.149e+04
28	47	3.438e+04	1.612e+04	5.79e-03	-1260.00	0.0	535.21	996.94	-82.01	-2.328e+04	1.612e+04	-1.312e+05
		-1.312e+05	-1.840e+04	7.78e-03	0.0	420.0	535.21	-263.06	-82.01	-2.328e+04	-1.840e+04	2.294e+04
28	48	3.523e+04	451.23	5.75e-03	-1260.00	0.0	457.51	1003.81	8.87	-2.848e+04	-3336.32	-1.327e+05
		-1.327e+05	-3336.32	-0.03	0.0	420.0	457.51	-256.19	8.87	-2.848e+04	451.23	2.433e+04
28	58	1.661e+04	3.413e+04	3.74e-03	-1260.00	0.0	-308.42	631.03	162.77	-3.405e+04	-3.447e+04	-4.976e+04
		-4.976e+04	-3.447e+04	-0.07	0.0	420.0	-308.42	-628.97	162.77	-3.405e+04	3.413e+04	-4.932e+04
28	59	1.787e+04	3.429e+04	5.78e-03	-1260.00	0.0	262.25	783.88	-162.26	-1.694e+04	3.429e+04	-8.386e+04
		-8.386e+04	-3.409e+04	0.05	0.0	420.0	262.25	-476.12	-162.26	-1.694e+04	-3.409e+04	-1.923e+04
28	69	1.658e+04	20.57	4.73e-03	-1260.00	0.0	-23.09	707.45	0.26	-2.550e+04	-87.76	-6.681e+04
		-6.681e+04	-87.76	-8.23e-03	0.0	420.0	-23.09	-552.55	0.26	-2.550e+04	20.57	-3.428e+04
28	70	1.695e+04	25.13	6.54e-03	-1260.00	0.0	-35.52	707.02	0.34	-3.405e+04	-117.58	-6.634e+04
		-6.634e+04	-117.58	-0.01	0.0	420.0	-35.52	-552.98	0.34	-3.405e+04	25.13	-3.399e+04
28	71	1.658e+04	20.57	4.73e-03	-1260.00	0.0	-23.09	707.45	0.26	-2.550e+04	-87.76	-6.681e+04
		-6.681e+04	-87.76	-8.23e-03	0.0	420.0	-23.09	-552.55	0.26	-2.550e+04	20.57	-3.428e+04
28	72	1.665e+04	21.49	5.09e-03	-1260.00	0.0	-25.57	707.37	0.27	-2.721e+04	-93.72	-6.671e+04
		-6.671e+04	-93.72	-8.78e-03	0.0	420.0	-25.57	-552.63	0.27	-2.721e+04	21.49	-3.422e+04
31	1	2.510e+04	115.25	4.65e-03	-1248.00	0.0	-23.14	729.59	0.71	-4.971e+04	-111.78	-4.282e+04
		-4.282e+04	-111.78	-0.01	0.0	320.0	-23.14	-518.41	0.71	-4.971e+04	115.25	-9029.74
31	2	2.490e+04	171.30	8.15e-03	-1248.00	0.0	-32.32	717.71	1.04	-6.893e+04	-162.62	-4.075e+04
		-4.075e+04	-162.62	-0.02	0.0	320.0	-32.32	-530.29	1.04	-6.893e+04	171.30	-1.077e+04
31	3	1.930e+04	88.09	3.63e-03	-960.00	0.0	-18.39	560.80	0.54	-3.806e+04	-85.55	-3.286e+04
		-3.286e+04	-85.55	-9.30e-03	0.0	320.0	-18.39	-399.20	0.54	-3.806e+04	88.09	-7008.00
31	14	1.809e+04	-1427.26	-2.40e-03	-960.00	0.0	-257.36	260.88	-1.55	-3.856e+04	-1427.26	6827.82
		-6.330e+04	-2099.62	-0.01	0.0	320.0	-257.36	-699.12	-1.55	-3.856e+04	-2099.62	-6.330e+04
31	15	5.091e+04	2276.44	9.42e-03	-960.00	0.0	221.24	861.20	2.64	-3.777e+04	1255.67	-7.264e+04
		-7.264e+04	1255.67	-8.18e-03	0.0	320.0	221.24	-98.80	2.64	-3.777e+04	2276.44	4.936e+04
31	20	5.097e+04	9803.81	9.40e-03	-960.00	0.0	204.28	861.89	41.96	-3.979e+04	-4152.42	-7.276e+04
		-7.276e+04	-4152.42	-0.02	0.0	320.0	204.28	-98.11	41.96	-3.979e+04	9803.81	4.945e+04
31	21	1.705e+04	1.209e+04	2.37e-03	-960.00	0.0	-21.20	507.28	-87.78	-3.434e+04	1.209e+04	-2.585e+04
		-2.585e+04	-1.694e+04	8.96e-03	0.0	320.0	-21.20	-452.72	-87.78	-3.434e+04	-1.694e+04	-1.709e+04

31	24	2.298e+04	1.712e+04	4.83e-03	-960.00	0.0	-14.92	614.79	88.87	-4.198e+04	-1.226e+04	-
3.996e+04												
		-3.996e+04	-1.226e+04	-0.03	0.0	320.0	-14.92	-345.21	88.87	-4.198e+04	1.712e+04	3146.08
31	46	3.134e+04	-2199.40	-5.65e-03	-960.00	0.0	-397.85	83.79	-2.45	-3.879e+04	-2199.40	3.026e+04
		-9.654e+04	-3270.04	-0.01	0.0	320.0	-397.85	-876.21	-2.45	-3.879e+04	-3270.04	-
9.654e+04												
31	47	8.260e+04	3446.86	0.01	-960.00	0.0	361.74	1038.28	3.53	-3.753e+04	2027.81	-
9.607e+04												
		-9.607e+04	2027.81	-7.35e-03	0.0	320.0	361.74	78.28	3.53	-3.753e+04	3446.86	8.260e+04
31	49	3.151e+04	6338.03	-5.62e-03	-960.00	0.0	-370.97	82.71	-64.59	-3.559e+04	6338.03	3.045e+04
		-9.668e+04	-1.518e+04	3.07e-03	0.0	320.0	-370.97	-877.29	-64.59	-3.559e+04	-1.518e+04	-
9.668e+04												
31	52	8.274e+04	1.536e+04	0.01	-960.00	0.0	334.85	1039.37	65.68	-4.074e+04	-6509.63	-
9.626e+04												
		-9.626e+04	-6509.63	-0.02	0.0	320.0	334.85	79.37	65.68	-4.074e+04	1.536e+04	8.274e+04
31	53	1.603e+04	1.905e+04	1.66e-03	-960.00	0.0	-22.82	475.49	-138.52	-3.213e+04	1.905e+04	-
2.167e+04												
		-2.307e+04	-2.678e+04	0.02	0.0	320.0	-22.82	-484.51	-138.52	-3.213e+04	-2.678e+04	-
2.307e+04												
31	56	2.547e+04	2.695e+04	5.54e-03	-960.00	0.0	-13.30	646.58	139.61	-4.420e+04	-1.923e+04	-
4.415e+04												
		-4.415e+04	-1.923e+04	-0.04	0.0	320.0	-13.30	-313.42	139.61	-4.420e+04	2.695e+04	9120.17
31	69	1.930e+04	88.41	3.60e-03	-960.00	0.0	-18.06	561.04	0.54	-3.816e+04	-85.80	-
3.291e+04												
		-3.291e+04	-85.80	-9.33e-03	0.0	320.0	-18.06	-398.96	0.54	-3.816e+04	88.41	-6972.93
31	70	1.915e+04	125.77	5.93e-03	-960.00	0.0	-24.18	553.12	0.77	-5.097e+04	-119.69	-
3.153e+04												
		-3.153e+04	-119.69	-0.01	0.0	320.0	-24.18	-406.88	0.77	-5.097e+04	125.77	-8131.13
31	71	1.930e+04	88.41	3.60e-03	-960.00	0.0	-18.06	561.04	0.54	-3.816e+04	-85.80	-
3.291e+04												
		-3.291e+04	-85.80	-9.33e-03	0.0	320.0	-18.06	-398.96	0.54	-3.816e+04	88.41	-6972.93
31	72	1.926e+04	95.88	4.06e-03	-960.00	0.0	-19.28	559.45	0.59	-4.072e+04	-92.58	-
3.263e+04												
		-3.263e+04	-92.58	-9.96e-03	0.0	320.0	-19.28	-400.55	0.59	-4.072e+04	95.88	-7204.57
32	1	2.514e+04	222.20	4.66e-03	-1248.00	0.0	-22.16	729.92	-1.29	4.970e+04	222.20	-
4.284e+04												
		-4.284e+04	-189.27	0.01	0.0	320.0	-22.16	-518.08	-1.29	4.970e+04	-189.27	-8949.45
32	2	2.494e+04	298.43	8.16e-03	-1248.00	0.0	-31.22	718.09	-1.75	6.892e+04	298.43	-
4.078e+04												
		-4.078e+04	-262.27	0.02	0.0	320.0	-31.22	-529.91	-1.75	6.892e+04	-262.27	-
1.068e+04												
32	3	1.933e+04	170.52	3.63e-03	-960.00	0.0	-17.63	561.05	-0.99	3.806e+04	170.52	-
3.288e+04												
		-3.288e+04	-145.07	9.42e-03	0.0	320.0	-17.63	-398.95	-0.99	3.806e+04	-145.07	-6945.49
32	5	1.811e+04	1922.43	-2.42e-03	-960.00	0.0	-257.77	260.89	0.55	3.855e+04	1507.06	6841.21
		-6.328e+04	1507.06	9.20e-03	0.0	320.0	-257.77	-699.11	0.55	3.855e+04	1922.43	-
6.328e+04												
32	8	5.099e+04	-1165.56	9.47e-03	-960.00	0.0	223.17	861.70	-2.53	3.776e+04	-1165.56	-
7.269e+04												
		-7.269e+04	-2213.15	9.68e-03	0.0	320.0	223.17	-98.30	-2.53	3.776e+04	-2213.15	4.946e+04
32	11	5.105e+04	4240.85	9.48e-03	-960.00	0.0	206.73	862.47	-41.60	3.979e+04	4240.85	-
7.285e+04												
		-7.285e+04	-9633.37	0.02	0.0	320.0	206.73	-97.53	-41.60	3.979e+04	-9633.37	4.955e+04
32	26	1.708e+04	1.702e+04	2.34e-03	-960.00	0.0	-17.74	507.48	88.19	3.432e+04	-1.207e+04	-
2.585e+04												
		-2.585e+04	-1.207e+04	-8.84e-03	0.0	320.0	-17.74	-452.52	88.19	3.432e+04	1.702e+04	-
1.705e+04												
32	27	2.302e+04	1.241e+04	4.87e-03	-960.00	0.0	-16.85	615.10	-90.17	4.199e+04	1.241e+04	-
4.000e+04												
		-4.000e+04	-1.731e+04	0.03	0.0	320.0	-16.85	-344.90	-90.17	4.199e+04	-1.731e+04	3226.77
32	37	3.137e+04	3035.03	-5.72e-03	-960.00	0.0	-398.82	83.65	1.19	3.879e+04	2269.29	3.030e+04
		-9.654e+04	2269.29	9.25e-03	0.0	320.0	-398.82	-876.35	1.19	3.879e+04	3035.03	-
9.654e+04												
32	40	8.272e+04	-1927.79	0.01	-960.00	0.0	364.23	1038.94	-3.16	3.752e+04	-1927.79	-
9.615e+04												
		-9.615e+04	-3325.75	9.63e-03	0.0	320.0	364.23	78.94	-3.16	3.752e+04	-3325.75	8.272e+04
32	42	3.160e+04	1.476e+04	-5.72e-03	-960.00	0.0	-372.91	82.44	62.88	3.557e+04	-6261.49	3.055e+04
		-9.668e+04	-6261.49	-4.50e-03	0.0	320.0	-372.91	-877.56	62.88	3.557e+04	1.476e+04	-
9.668e+04												
32	43	8.286e+04	6602.98	0.01	-960.00	0.0	338.32	1040.14	-64.86	4.075e+04	6602.98	-
9.640e+04												
		-9.640e+04	-1.506e+04	0.02	0.0	320.0	338.32	80.14	-64.86	4.075e+04	-1.506e+04	8.286e+04
32	58	1.605e+04	2.689e+04	-1.67e-03	-960.00	0.0	-18.21	475.70	139.26	3.210e+04	-1.907e+04	-
2.167e+04												
		-2.303e+04	-1.907e+04	-0.02	0.0	320.0	-18.21	-484.30	139.26	3.210e+04	2.689e+04	-
2.303e+04												

32	59	2.553e+04	1.941e+04	5.61e-03	-960.00	0.0	-16.38	646.89	-141.24	4.421e+04	1.941e+04	-
4.418e+04												
		-4.418e+04	-2.718e+04	0.04	0.0	320.0	-16.38	-313.11	-141.24	4.421e+04	-2.718e+04	9211.07
32	69	1.933e+04	170.75	3.61e-03	-960.00	0.0	-17.30	561.29	-0.99	3.816e+04	170.75	-
3.292e+04												
		-3.292e+04	-145.36	9.44e-03	0.0	320.0	-17.30	-398.71	-0.99	3.816e+04	-145.36	-6910.84
32	70	1.918e+04	221.56	5.94e-03	-960.00	0.0	-23.34	553.41	-1.30	5.097e+04	221.56	-
3.155e+04												
		-3.155e+04	-194.03	0.01	0.0	320.0	-23.34	-406.59	-1.30	5.097e+04	-194.03	-8061.52
32	71	1.933e+04	170.75	3.61e-03	-960.00	0.0	-17.30	561.29	-0.99	3.816e+04	170.75	-
3.292e+04												
		-3.292e+04	-145.36	9.44e-03	0.0	320.0	-17.30	-398.71	-0.99	3.816e+04	-145.36	-6910.84
32	72	1.929e+04	180.91	4.07e-03	-960.00	0.0	-18.51	559.72	-1.05	4.072e+04	180.91	-
3.265e+04												
		-3.265e+04	-155.10	0.01	0.0	320.0	-18.51	-400.28	-1.05	4.072e+04	-155.10	-7140.98
33	2	3.614e+04	-190.82	-0.26	-3313.25	0.0	-984.78	3313.33	0.19	8.44	-251.05	-
1.605e+05												
		-1.605e+05	-251.05	3.24e-04	0.0	315.0	-984.78	0.07	0.19	8.44	-190.82	3.614e+05
33	3	2.266e+04	-107.72	-0.16	-2098.29	0.0	-604.05	2098.34	0.12	5.60	-146.59	-
1.038e+05												
		-1.038e+05	-146.59	1.83e-04	0.0	315.0	-604.05	0.05	0.12	5.60	-107.72	2.266e+05
33	14	2.295e+04	1.750e+04	-0.16	-2101.16	0.0	-581.31	2148.49	-102.39	2803.72	1.750e+04	-
1.169e+05												
		-1.169e+05	-1.515e+04	0.02	0.0	315.0	-581.31	47.33	-102.39	2803.72	-1.515e+04	2.295e+05
33	15	2.244e+05	1.494e+04	-0.16	-2101.16	0.0	-628.29	2053.92	102.63	-2792.54	-1.780e+04	-
9.099e+04												
		-9.099e+04	-1.780e+04	-0.02	0.0	315.0	-628.29	-47.24	102.63	-2792.54	1.494e+04	2.244e+05
33	18	2.296e+05	1.685e+04	-0.16	-2101.16	0.0	-583.45	2142.36	-99.71	2824.75	1.685e+04	-
1.150e+05												
		-1.150e+05	-1.518e+04	0.02	0.0	315.0	-583.45	41.21	-99.71	2824.75	-1.518e+04	2.296e+05
33	26	2.288e+05	1.553e+04	-0.16	-2101.16	0.0	-650.23	2198.44	-64.10	693.41	1.553e+04	-
1.331e+05												
		-1.331e+05	-5137.53	5.71e-03	0.0	315.0	-650.23	97.29	-64.10	693.41	-5137.53	2.288e+05
33	29	2.264e+05	-3919.92	-0.16	-2101.16	0.0	-526.27	2026.16	7.87	495.42	-7206.84	-
8.135e+04												
		-8.135e+04	-7206.84	3.30e-03	0.0	315.0	-526.27	-74.99	7.87	495.42	-3919.92	2.264e+05
33	32	2.275e+05	6913.37	-0.16	-2101.16	0.0	-683.33	2176.24	-7.62	-484.24	6913.37	-
1.266e+05												
		-1.266e+05	3704.08	-2.99e-03	0.0	315.0	-683.33	75.09	-7.62	-484.24	3704.08	2.275e+05
33	46	2.307e+05	2.772e+04	-0.16	-2101.16	0.0	-566.94	2175.39	-161.42	4443.99	2.772e+04	-
1.244e+05												
		-1.244e+05	-2.375e+04	0.03	0.0	315.0	-566.94	74.23	-161.42	4443.99	-2.375e+04	2.307e+05
33	47	2.232e+05	2.353e+04	-0.16	-2101.16	0.0	-642.66	2027.02	161.67	-4432.81	-2.802e+04	-
8.349e+04												
		-8.349e+04	-2.802e+04	-0.03	0.0	315.0	-642.66	-74.14	161.67	-4432.81	2.353e+04	2.232e+05
33	50	2.308e+05	2.674e+04	-0.16	-2101.16	0.0	-571.04	2165.32	-157.40	4472.68	2.674e+04	-
1.212e+05												
		-1.212e+05	-2.380e+04	0.03	0.0	315.0	-571.04	64.16	-157.40	4472.68	-2.380e+04	2.308e+05
33	58	2.297e+05	2.453e+04	-0.16	-2101.16	0.0	-672.86	2254.34	-100.86	1112.27	2.453e+04	-
1.499e+05												
		-1.499e+05	-7948.55	8.91e-03	0.0	315.0	-672.86	153.18	-100.86	1112.27	-7948.55	2.297e+05
33	61	2.264e+05	-6124.88	-0.16	-2101.16	0.0	-482.14	1984.70	12.87	771.73	-1.143e+04	-
6.875e+04												
		-6.875e+04	-1.143e+04	5.13e-03	0.0	315.0	-482.14	-116.46	12.87	771.73	-6124.88	2.261e+05
33	64	2.279e+05	1.114e+04	-0.16	-2101.16	0.0	-727.46	2217.71	-12.63	-760.55	1.114e+04	-
1.392e+05												
		-1.392e+05	5909.05	-4.82e-03	0.0	315.0	-727.46	116.55	-12.63	-760.55	5909.05	2.279e+05
33	69	2.270e+05	-107.92	-0.16	-2101.16	0.0	-604.80	2101.20	0.12	5.59	-146.73	-
1.040e+05												
		-1.040e+05	-146.73	1.83e-04	0.0	315.0	-604.80	0.05	0.12	5.59	-107.92	2.270e+05
33	70	2.710e+05	-141.47	-0.19	-2487.08	0.0	-736.66	2487.14	0.14	6.38	-186.83	-
1.208e+05												
		-1.208e+05	-186.83	2.41e-04	0.0	315.0	-736.66	0.05	0.14	6.38	-141.47	2.710e+05
33	71	2.270e+05	-107.92	-0.16	-2101.16	0.0	-604.80	2101.20	0.12	5.59	-146.73	-
1.040e+05												
		-1.040e+05	-146.73	1.83e-04	0.0	315.0	-604.80	0.05	0.12	5.59	-107.92	2.270e+05
33	72	2.358e+05	-114.63	-0.17	-2178.34	0.0	-631.17	2178.39	0.13	5.75	-154.75	-
1.073e+05												
		-1.073e+05	-154.75	1.95e-04	0.0	315.0	-631.17	0.05	0.13	5.75	-114.63	2.358e+05
34	2	3.614e+05	-130.60	0.26	-3313.25	0.0	-984.78	0.07	0.19	8.44	-190.82	3.614e+05
		-1.604e+05	-190.82	-3.02e-04	0.0	315.0	-984.78	-3313.18	0.19	8.44	-130.60	-
1.604e+05												
34	3	2.266e+05	-68.84	0.16	-2098.29	0.0	-604.05	0.05	0.12	5.60	-107.72	2.266e+05
		-1.038e+05	-107.72	-1.71e-04	0.0	315.0	-604.05	-2098.25	0.12	5.60	-68.84	-
1.038e+05												
34	5	2.297e+05	1.769e+04	0.16	-2101.16	0.0	-581.11	-47.56	102.54	-2849.96	-1.478e+04	2.297e+05

		-1.170e+05	-1.478e+04	-0.02	0.0	315.0	-581.11	-2148.72	102.54	-2849.96	1.769e+04	-
1.170e+05												
34	8	2.243e+05	1.457e+04	0.16	-2101.16	0.0	-628.49	47.66	-102.29	2861.14	1.457e+04	2.243e+05
		-9.087e+04	-1.782e+04	0.02	0.0	315.0	-628.49	-2053.50	-102.29	2861.14	-1.782e+04	-
9.087e+04												
34	9	2.297e+05	1.727e+04	0.16	-2101.16	0.0	-584.72	-41.72	101.80	-2816.04	-1.476e+04	2.297e+05
		-1.151e+05	-1.476e+04	-0.02	0.0	315.0	-584.72	-2142.87	101.80	-2816.04	1.727e+04	-
1.151e+05												
34	21	2.291e+05	1.545e+04	0.16	-2101.16	0.0	-650.14	-97.44	62.86	-786.34	-3994.43	2.291e+05
		-1.331e+05	-3994.43	-5.89e-03	0.0	315.0	-650.14	-2198.60	62.86	-786.34	1.545e+04	-
1.331e+05												
34	34	2.265e+05	-5212.04	0.16	-2101.16	0.0	-521.39	76.14	-12.30	-565.64	-5212.04	2.261e+05
		-8.122e+04	-7717.79	2.13e-03	0.0	315.0	-521.39	-2025.01	-12.30	-565.64	-7717.79	-
8.122e+04												
34	35	2.279e+05	7579.58	0.16	-2101.16	0.0	-688.21	-76.05	12.54	576.82	4996.20	2.279e+05
		-1.266e+05	4996.20	-2.23e-03	0.0	315.0	-688.21	-2177.21	12.54	576.82	7579.58	-
1.266e+05												
34	37	2.309e+05	2.798e+04	0.16	-2101.16	0.0	-566.68	-74.53	161.63	-4521.04	-2.321e+04	2.309e+05
		-1.245e+05	-2.321e+04	-0.03	0.0	315.0	-566.68	-2175.69	161.63	-4521.04	2.798e+04	-
1.245e+05												
34	40	2.235e+05	2.299e+04	0.16	-2101.16	0.0	-642.92	74.63	-161.39	4532.22	2.299e+04	2.231e+05
		-8.332e+04	-2.812e+04	0.03	0.0	315.0	-642.92	-2026.53	-161.39	4532.22	-2.812e+04	-
8.332e+04												
34	41	2.309e+05	2.737e+04	0.16	-2101.16	0.0	-573.07	-65.00	160.55	-4465.69	-2.316e+04	2.309e+05
		-1.214e+05	-2.316e+04	-0.03	0.0	315.0	-573.07	-2166.16	160.55	-4465.69	2.737e+04	-
1.214e+05												
34	53	2.302e+05	2.442e+04	0.16	-2101.16	0.0	-672.79	-153.09	99.14	-1256.25	-6289.71	2.302e+05
		-1.499e+05	-6289.71	-9.32e-03	0.0	315.0	-672.79	-2254.25	99.14	-1256.25	2.442e+04	-
1.499e+05												
34	66	2.265e+05	-8113.38	0.16	-2101.16	0.0	-474.48	118.18	-20.01	-889.17	-8113.38	2.255e+05
		-6.857e+04	-1.228e+04	3.40e-03	0.0	315.0	-474.48	-1982.98	-20.01	-889.17	-1.228e+04	-
6.857e+04												
34	67	2.284e+05	1.214e+04	0.16	-2101.16	0.0	-735.12	-118.09	20.25	900.35	7897.54	2.284e+05
		-1.393e+05	7897.54	-3.50e-03	0.0	315.0	-735.12	-2219.24	20.25	900.35	1.214e+04	-
1.393e+05												
34	69	2.270e+05	-69.11	0.16	-2101.16	0.0	-604.80	0.05	0.12	5.59	-107.92	2.270e+05
		-1.039e+05	-107.92	-1.71e-04	0.0	315.0	-604.80	-2101.11	0.12	5.59	-69.11	-
1.039e+05												
34	70	2.710e+05	-96.11	0.19	-2487.08	0.0	-736.66	0.05	0.14	6.38	-141.47	2.710e+05
		-1.207e+05	-141.47	-2.24e-04	0.0	315.0	-736.66	-2487.03	0.14	6.38	-96.11	-
1.207e+05												
34	71	2.270e+05	-69.11	0.16	-2101.16	0.0	-604.80	0.05	0.12	5.59	-107.92	2.270e+05
		-1.039e+05	-107.92	-1.71e-04	0.0	315.0	-604.80	-2101.11	0.12	5.59	-69.11	-
1.039e+05												
34	72	2.358e+05	-74.51	0.17	-2178.34	0.0	-631.17	0.05	0.13	5.75	-114.63	2.358e+05
		-1.073e+05	-114.63	-1.81e-04	0.0	315.0	-631.17	-2178.29	0.13	5.75	-74.51	-
1.073e+05												
35	2	5.126e+05	230.42	0.36	-4855.69	0.0	-1482.08	0.10	-0.35	-25.04	230.42	5.126e+05
		-2.522e+05	119.84	3.88e-04	0.0	315.0	-1482.08	-4855.59	-0.35	-25.04	119.84	-
2.522e+05												
35	3	3.102e+05	130.04	0.22	-2951.58	0.0	-881.87	0.06	-0.22	-16.22	130.04	3.102e+05
		-1.547e+05	61.47	2.19e-04	0.0	315.0	-881.87	-2951.51	-0.22	-16.22	61.47	-
1.547e+05												
35	11	3.134e+05	2.644e+04	0.22	-2956.56	0.0	-882.83	-57.68	-166.29	4411.66	2.644e+04	3.134e+05
		-1.711e+05	-2.600e+04	0.03	0.0	315.0	-882.83	-3014.25	-166.29	4411.66	-2.600e+04	-
1.711e+05												
35	30	3.095e+05	2.820e+04	0.22	-2956.56	0.0	-804.28	139.85	114.11	-1701.97	-7303.95	3.084e+05
		-1.129e+05	-7303.95	-0.01	0.0	315.0	-804.28	-2816.71	114.11	-1701.97	2.820e+04	-
1.129e+05												
35	31	3.130e+05	7564.57	0.22	-2956.56	0.0	-962.27	-139.72	-114.55	1669.55	7564.57	3.130e+05
		-1.970e+05	-2.808e+04	0.01	0.0	315.0	-962.27	-3096.28	-114.55	1669.55	-2.808e+04	-
1.970e+05												
35	33	3.117e+05	-8332.68	0.22	-2956.56	0.0	-979.61	-138.39	-35.87	-150.02	-8332.68	3.117e+05
		-1.969e+05	-1.899e+04	4.68e-03	0.0	315.0	-979.61	-3094.95	-35.87	-150.02	-1.899e+04	-
1.969e+05												
35	36	3.107e+05	1.912e+04	0.22	-2956.56	0.0	-786.95	138.52	35.43	117.60	8593.29	3.097e+05
		-1.129e+05	8593.29	-4.54e-03	0.0	315.0	-786.95	-2818.04	35.43	117.60	1.912e+04	-
1.129e+05												
35	43	3.146e+05	4.130e+04	0.22	-2956.56	0.0	-882.48	-91.03	-261.26	6980.75	4.130e+04	3.146e+05
		-1.806e+05	-4.109e+04	0.05	0.0	315.0	-882.48	-3047.60	-261.26	6980.75	-4.109e+04	-
1.806e+05												
35	62	3.095e+05	4.469e+04	0.22	-2956.56	0.0	-759.07	221.60	180.56	-2677.94	-1.154e+04	3.072e+05
		-8.820e+04	-1.154e+04	-0.02	0.0	315.0	-759.07	-2734.96	180.56	-2677.94	4.469e+04	-
8.820e+04												
35	63	3.143e+05	1.180e+04	0.21	-2956.56	0.0	-1007.48	-221.47	-180.99	2645.52	1.180e+04	3.143e+05
		-2.216e+05	-4.457e+04	0.02	0.0	315.0	-1007.48	-3178.04	-180.99	2645.52	-4.457e+04	-

2.216e+05													
35	65	3.124e+05	-1.307e+04	0.21	-2956.56	0.0	-1034.92	-219.09	-57.85	-205.84	-1.307e+04	3.124e+05	
		-2.215e+05	-3.034e+04	7.40e-03	0.0	315.0	-1034.92	-3175.65	-57.85	-205.84	-3.034e+04	-	
2.215e+05													
35	68	3.112e+05	3.046e+04	0.22	-2956.56	0.0	-731.63	219.21	57.41	173.42	1.333e+04	3.090e+05	
		-8.828e+04	1.333e+04	-7.26e-03	0.0	315.0	-731.63	-2737.35	57.41	173.42	3.046e+04	-	
8.828e+04													
35	69	3.107e+05	130.31	0.22	-2956.56	0.0	-883.28	0.06	-0.22	-16.21	130.31	3.107e+05	
		-1.549e+05	61.71	2.19e-04	0.0	315.0	-883.28	-2956.50	-0.22	-16.21	61.71	-	
1.549e+05													
35	70	3.828e+05	170.81	0.27	-3628.01	0.0	-1104.89	0.08	-0.26	-18.87	170.81	3.828e+05	
		-1.886e+05	87.96	2.88e-04	0.0	315.0	-1104.89	-3627.94	-0.26	-18.87	87.96	-	
1.886e+05													
35	71	3.107e+05	130.31	0.22	-2956.56	0.0	-883.28	0.06	-0.22	-16.21	130.31	3.107e+05	
		-1.549e+05	61.71	2.19e-04	0.0	315.0	-883.28	-2956.50	-0.22	-16.21	61.71	-	
1.549e+05													
35	72	3.251e+05	138.41	0.23	-3090.85	0.0	-927.60	0.07	-0.23	-16.74	138.41	3.251e+05	
		-1.616e+05	66.96	2.33e-04	0.0	315.0	-927.60	-3090.79	-0.23	-16.74	66.96	-	
1.616e+05													
36	1	7.507e+04	-53.85	0.03	-1111.50	0.0	-96.05	-161.57	-0.44	5.341e+04	-53.85	7.507e+04	
		-1.294e+05	-179.55	0.01	0.0	285.0	-96.05	-1273.07	-0.44	5.341e+04	-179.55	-	
1.294e+05													
36	2	7.607e+04	-73.42	0.03	-1111.50	0.0	-91.06	-153.01	-0.66	7.399e+04	-73.42	7.607e+04	
		-1.259e+05	-260.24	0.02	0.0	285.0	-91.06	-1264.51	-0.66	7.399e+04	-260.24	-	
1.259e+05													
36	3	5.773e+04	-41.27	0.03	-855.00	0.0	-74.56	-124.16	-0.34	4.090e+04	-41.27	5.773e+04	
		-9.949e+04	-137.39	8.80e-03	0.0	285.0	-74.56	-979.16	-0.34	4.090e+04	-137.39	-	
9.949e+04													
36	4	5.874e+04	-60.84	0.02	-855.00	0.0	-69.57	-115.59	-0.55	6.148e+04	-60.84	5.874e+04	
		-9.604e+04	-218.07	0.01	0.0	285.0	-69.57	-970.59	-0.55	6.148e+04	-218.07	-	
9.604e+04													
36	17	6.423e+04	6181.67	0.03	-855.00	0.0	19.98	-296.74	-3.38	3.990e+04	6181.67	6.423e+04	
		-1.422e+05	4454.26	5.05e-03	0.0	285.0	19.98	-1151.74	-3.38	3.990e+04	4454.26	-	
1.422e+05													
36	30	5.819e+04	-5726.43	0.03	-855.00	0.0	-132.85	-151.87	-72.94	4.652e+04	-5726.43	5.819e+04	
		-1.068e+05	-2.562e+04	0.04	0.0	285.0	-132.85	-1006.87	-72.94	4.652e+04	-2.562e+04	-	
1.068e+05													
36	31	5.728e+04	2.534e+04	0.02	-855.00	0.0	-15.51	-96.60	72.27	3.548e+04	5643.72	5.728e+04	
		-9.219e+04	5643.72	-0.02	0.0	285.0	-15.51	-951.60	72.27	3.548e+04	2.534e+04	-	
9.219e+04													
36	33	6.054e+04	2.248e+04	0.03	-855.00	0.0	21.21	-182.65	53.41	3.573e+04	8322.65	6.054e+04	
		-1.135e+05	8322.65	-0.02	0.0	285.0	21.21	-1037.65	53.41	3.573e+04	2.248e+04	-	
1.135e+05													
36	36	5.494e+04	-8405.36	0.02	-855.00	0.0	-169.56	-65.82	-54.09	4.628e+04	-8405.36	5.494e+04	
		-8.554e+04	-2.276e+04	0.04	0.0	285.0	-169.56	-920.82	-54.09	4.628e+04	-2.276e+04	-	
8.554e+04													
36	49	6.804e+04	9692.86	0.03	-855.00	0.0	68.76	-398.53	-4.00	3.924e+04	9692.86	6.804e+04	
		-1.674e+05	7327.91	2.71e-03	0.0	285.0	68.76	-1253.53	-4.00	3.924e+04	7327.91	-	
1.674e+05													
36	62	5.848e+04	-9127.30	0.03	-855.00	0.0	-170.46	-168.22	-115.26	4.976e+04	-9127.30	5.848e+04	
		-1.111e+05	-4.057e+04	0.06	0.0	285.0	-170.46	-1023.22	-115.26	4.976e+04	-4.057e+04	-	
1.111e+05													
36	63	5.700e+04	4.029e+04	0.02	-855.00	0.0	22.10	-80.25	114.58	3.225e+04	9044.59	5.700e+04	
		-8.788e+04	9044.59	-0.04	0.0	285.0	22.10	-935.25	114.58	3.225e+04	4.029e+04	-	
8.788e+04													
36	65	6.218e+04	3.583e+04	0.03	-855.00	0.0	75.36	-217.05	85.24	3.263e+04	1.321e+04	6.218e+04	
		-1.217e+05	1.321e+04	-0.04	0.0	285.0	75.36	-1072.05	85.24	3.263e+04	3.583e+04	-	
1.217e+05													
36	68	5.330e+04	-1.329e+04	0.02	-855.00	0.0	-223.72	-31.41	-85.91	4.938e+04	-1.329e+04	5.330e+04	
		-7.731e+04	-3.611e+04	0.05	0.0	285.0	-223.72	-886.41	-85.91	4.938e+04	-3.611e+04	-	
7.731e+04													
36	69	5.774e+04	-41.35	0.03	-855.00	0.0	-74.18	-124.23	-0.34	4.100e+04	-41.35	5.774e+04	
		-9.951e+04	-137.80	8.83e-03	0.0	285.0	-74.18	-979.23	-0.34	4.100e+04	-137.80	-	
9.951e+04													
36	70	5.841e+04	-54.40	0.02	-855.00	0.0	-70.85	-118.52	-0.48	5.473e+04	-54.40	5.841e+04	
		-9.721e+04	-191.59	0.01	0.0	285.0	-70.85	-973.52	-0.48	5.473e+04	-191.59	-	
9.721e+04													
36	71	5.774e+04	-41.35	0.03	-855.00	0.0	-74.18	-124.23	-0.34	4.100e+04	-41.35	5.774e+04	
		-9.951e+04	-137.80	8.83e-03	0.0	285.0	-74.18	-979.23	-0.34	4.100e+04	-137.80	-	
9.951e+04													
36	72	5.787e+04	-43.96	0.02	-855.00	0.0	-73.51	-123.09	-0.37	4.375e+04	-43.96	5.787e+04	
		-9.905e+04	-148.56	9.42e-03	0.0	285.0	-73.51	-978.09	-0.37	4.375e+04	-148.56	-	
9.905e+04													
37	1	7.513e+04	321.68	0.03	-1111.50	0.0	-93.64	-161.88	0.89	-5.342e+04	69.43	7.513e+04	
		-1.294e+05	69.43	-0.01	0.0	285.0	-93.64	-1273.38	0.89	-5.342e+04	321.68	-	
1.294e+05													

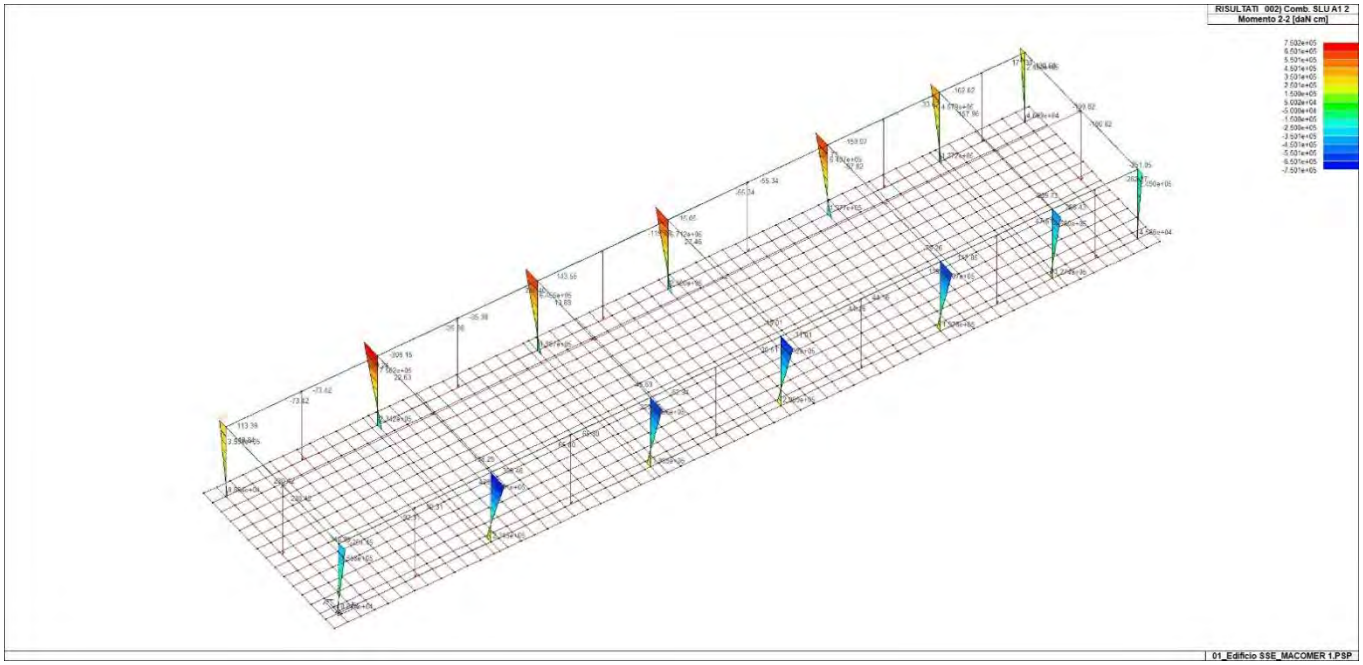
37	2	7.615e+04	439.07	0.03	-1111.50	0.0	-88.25	-153.36	1.22	-7.400e+04	92.31	7.615e+04
		-1.260e+05	92.31	-0.02	0.0	285.0	-88.25	-1264.86	1.22	-7.400e+04	439.07	-
1.260e+05												
37	3	5.778e+04	246.53	0.03	-855.00	0.0	-72.70	-124.40	0.68	-4.090e+04	53.25	5.778e+04
		-9.951e+04	53.25	-8.96e-03	0.0	285.0	-72.70	-979.40	0.68	-4.090e+04	246.53	-
9.951e+04												
37	4	5.880e+04	363.92	0.02	-855.00	0.0	-67.31	-115.88	1.01	-6.149e+04	76.13	5.880e+04
		-9.607e+04	76.13	-0.01	0.0	285.0	-67.31	-970.88	1.01	-6.149e+04	363.92	-
9.607e+04												
37	6	6.427e+04	-1391.68	0.03	-855.00	0.0	12.34	-295.62	9.34	-4.045e+04	-4988.11	6.427e+04
		-1.421e+05	-4988.11	-8.41e-03	0.0	285.0	12.34	-1150.62	9.34	-4.045e+04	-1391.68	-
1.421e+05												
37	10	6.425e+04	-4358.52	0.03	-855.00	0.0	22.30	-297.21	3.34	-3.989e+04	-6122.15	6.425e+04
		-1.423e+05	-6122.15	-5.04e-03	0.0	285.0	22.30	-1152.21	3.34	-3.989e+04	-4358.52	-
1.423e+05												
37	30	6.055e+04	-8245.78	0.03	-855.00	0.0	23.30	-183.17	-53.37	-3.573e+04	-8245.78	6.055e+04
		-1.136e+05	-2.240e+04	0.02	0.0	285.0	23.30	-1038.17	-53.37	-3.573e+04	-2.240e+04	-
1.136e+05												
37	31	5.502e+04	2.290e+04	0.02	-855.00	0.0	-167.94	-65.77	54.73	-4.629e+04	8352.47	5.502e+04
		-8.545e+04	8352.47	-0.04	0.0	285.0	-167.94	-920.77	54.73	-4.629e+04	2.290e+04	-
8.545e+04												
37	33	5.828e+04	2.572e+04	0.03	-855.00	0.0	-131.22	-152.01	73.37	-4.654e+04	5685.17	5.828e+04
		-1.068e+05	5685.17	-0.04	0.0	285.0	-131.22	-1007.01	73.37	-4.654e+04	2.572e+04	-
1.068e+05												
37	36	5.730e+04	-5578.49	0.02	-855.00	0.0	-13.43	-96.93	-72.01	-3.548e+04	-5578.49	5.730e+04
		-9.227e+04	-2.523e+04	0.02	0.0	285.0	-13.43	-951.93	-72.01	-3.548e+04	-2.523e+04	-
9.227e+04												
37	38	6.807e+04	-2357.87	0.03	-855.00	0.0	55.42	-396.58	14.03	-4.015e+04	-7797.45	6.807e+04
		-1.672e+05	-7797.45	-7.93e-03	0.0	285.0	55.42	-1251.58	14.03	-4.015e+04	-2357.87	-
1.672e+05												
37	42	6.806e+04	-7241.68	0.03	-855.00	0.0	71.44	-399.13	3.70	-3.923e+04	-9603.53	6.806e+04
		-1.676e+05	-9603.53	-2.61e-03	0.0	285.0	71.44	-1254.13	3.70	-3.923e+04	-7241.68	-
1.676e+05												
37	62	6.217e+04	-1.309e+04	0.03	-855.00	0.0	77.65	-217.75	-85.41	-3.262e+04	-1.309e+04	6.217e+04
		-1.219e+05	-3.577e+04	0.04	0.0	285.0	77.65	-1072.75	-85.41	-3.262e+04	-3.577e+04	-
1.219e+05												
37	63	5.340e+04	3.627e+04	0.02	-855.00	0.0	-222.30	-31.19	86.77	-4.940e+04	1.320e+04	5.340e+04
		-7.715e+04	1.320e+04	-0.06	0.0	285.0	-222.30	-886.19	86.77	-4.940e+04	3.627e+04	-
7.715e+04												
37	65	5.858e+04	4.067e+04	0.03	-855.00	0.0	-169.03	-168.31	115.77	-4.978e+04	9054.23	5.858e+04
		-1.111e+05	9054.23	-0.06	0.0	285.0	-169.03	-1023.31	115.77	-4.978e+04	4.067e+04	-
1.111e+05												
37	68	5.699e+04	-8947.55	0.02	-855.00	0.0	24.38	-80.63	-114.41	-3.223e+04	-8947.55	5.699e+04
		-8.799e+04	-4.018e+04	0.04	0.0	285.0	24.38	-935.63	-114.41	-3.223e+04	-4.018e+04	-
8.799e+04												
37	69	5.779e+04	247.05	0.03	-855.00	0.0	-72.32	-124.47	0.68	-4.101e+04	53.34	5.779e+04
		-9.953e+04	53.34	-8.99e-03	0.0	285.0	-72.32	-979.47	0.68	-4.101e+04	247.05	-
9.953e+04												
37	70	5.846e+04	325.31	0.02	-855.00	0.0	-68.73	-118.79	0.90	-5.473e+04	68.59	5.846e+04
		-9.723e+04	68.59	-0.01	0.0	285.0	-68.73	-973.79	0.90	-5.473e+04	325.31	-
9.723e+04												
37	71	5.779e+04	247.05	0.03	-855.00	0.0	-72.32	-124.47	0.68	-4.101e+04	53.34	5.779e+04
		-9.953e+04	53.34	-8.99e-03	0.0	285.0	-72.32	-979.47	0.68	-4.101e+04	247.05	-
9.953e+04												
37	72	5.792e+04	262.70	0.02	-855.00	0.0	-71.61	-123.33	0.72	-4.375e+04	56.39	5.792e+04
		-9.907e+04	56.39	-9.59e-03	0.0	285.0	-71.61	-978.33	0.72	-4.375e+04	262.70	-
9.907e+04												
38	2	6.233e+04	235.40	0.03	-1170.00	0.0	-81.91	33.66	0.90	-1.900e+04	-35.38	6.233e+04
		-1.031e+05	-35.38	-4.41e-03	0.0	300.0	-81.91	-1136.34	0.90	-1.900e+04	235.40	-
1.031e+05												
38	3	4.765e+04	132.05	0.03	-900.00	0.0	-61.33	30.84	0.50	-1.052e+04	-18.31	4.765e+04
		-7.810e+04	-18.31	-2.44e-03	0.0	300.0	-61.33	-869.16	0.50	-1.052e+04	132.05	-
7.810e+04												
38	17	4.849e+04	2142.35	0.03	-900.00	0.0	-169.98	-88.63	-5.22	-9335.65	2142.35	4.849e+04
		-1.130e+05	650.52	2.85e-03	0.0	300.0	-169.98	-988.63	-5.22	-9335.65	650.52	-
1.130e+05												
38	18	4.879e+04	1.000e+04	0.03	-900.00	0.0	-229.25	-85.68	47.12	-1.181e+04	-4218.19	4.879e+04
		-1.124e+05	-4218.19	-0.01	0.0	300.0	-229.25	-985.68	47.12	-1.181e+04	1.000e+04	-
1.124e+05												
38	19	5.004e+04	4181.45	0.02	-900.00	0.0	107.40	147.36	-46.11	-9289.47	4181.45	4.650e+04
		-4.378e+04	-9738.41	8.84e-03	0.0	300.0	107.40	-752.64	-46.11	-9289.47	-9738.41	-
4.378e+04												
38	20	5.040e+04	-385.82	0.02	-900.00	0.0	48.14	150.32	6.23	-1.176e+04	-2179.08	4.680e+04
		-4.318e+04	-2179.08	-7.74e-03	0.0	300.0	48.14	-749.68	6.23	-1.176e+04	-385.82	-
4.318e+04												
38	34	4.845e+04	1.728e+04	0.02	-900.00	0.0	-201.30	0.37	93.87	-1.467e+04	-1.093e+04	4.845e+04

		-8.750e+04	-1.093e+04	-0.03	0.0	300.0	-201.30	-899.63	93.87	-1.467e+04	1.728e+04	-	
8.750e+04													
38	35	4.743e+04	1.089e+04	0.03	-900.00	0.0	79.46	61.32	-92.86	-6423.00	1.089e+04	4.684e+04	
		-6.871e+04	-1.701e+04	0.03	0.0	300.0	79.46	-838.68	-92.86	-6423.00	-1.701e+04	-	
6.871e+04													
38	49	4.886e+04	3442.53	0.03	-900.00	0.0	-232.93	-159.08	-8.67	-8617.36	3442.53	4.886e+04	
		-1.336e+05	946.21	6.00e-03	0.0	300.0	-232.93	-1059.08	-8.67	-8617.36	946.21	-	
1.336e+05													
38	50	4.934e+04	1.581e+04	0.03	-900.00	0.0	-327.01	-154.42	74.53	-1.255e+04	-6669.21	4.934e+04	
		-1.327e+05	-6669.21	-0.02	0.0	300.0	-327.01	-1054.42	74.53	-1.255e+04	1.581e+04	-	
1.327e+05													
38	51	5.382e+04	6632.48	0.02	-900.00	0.0	205.17	216.11	-73.52	-8549.74	6632.48	4.595e+04	
		-2.352e+04	-1.555e+04	0.02	0.0	300.0	205.17	-683.89	-73.52	-8549.74	-1.555e+04	-	
2.352e+04													
38	52	5.442e+04	-681.51	0.02	-900.00	0.0	111.09	220.76	9.68	-1.248e+04	-3479.26	4.642e+04	
		-2.258e+04	-3479.26	-0.01	0.0	300.0	111.09	-679.24	9.68	-1.248e+04	-681.51	-	
2.258e+04													
38	66	4.887e+04	2.738e+04	0.02	-900.00	0.0	-283.44	-17.68	148.89	-1.711e+04	-1.735e+04	4.887e+04	
		-9.305e+04	-1.735e+04	-0.05	0.0	300.0	-283.44	-917.68	148.89	-1.711e+04	2.738e+04	-	
9.305e+04													
38	67	4.761e+04	1.731e+04	0.03	-900.00	0.0	161.60	79.37	-147.89	-3989.76	1.731e+04	4.641e+04	
		-6.316e+04	-2.712e+04	0.04	0.0	300.0	161.60	-820.63	-147.89	-3989.76	-2.712e+04	-	
6.316e+04													
38	69	4.764e+04	132.35	0.03	-900.00	0.0	-60.92	30.84	0.50	-1.055e+04	-18.37	4.764e+04	
		-7.810e+04	-18.37	-2.45e-03	0.0	300.0	-60.92	-869.16	0.50	-1.055e+04	132.35	-	
7.810e+04													
38	70	4.791e+04	174.38	0.03	-900.00	0.0	-63.00	26.55	0.67	-1.406e+04	-26.00	4.791e+04	
		-7.913e+04	-26.00	-3.26e-03	0.0	300.0	-63.00	-873.45	0.67	-1.406e+04	174.38	-	
7.913e+04													
38	71	4.764e+04	132.35	0.03	-900.00	0.0	-60.92	30.84	0.50	-1.055e+04	-18.37	4.764e+04	
		-7.810e+04	-18.37	-2.45e-03	0.0	300.0	-60.92	-869.16	0.50	-1.055e+04	132.35	-	
7.810e+04													
38	72	4.770e+04	140.76	0.03	-900.00	0.0	-61.34	29.98	0.54	-1.125e+04	-19.89	4.770e+04	
		-7.831e+04	-19.89	-2.61e-03	0.0	300.0	-61.34	-870.02	0.54	-1.125e+04	140.76	-	
7.831e+04													
39	2	6.232e+04	65.80	0.03	-1170.00	0.0	-80.05	33.78	-0.98	1.900e+04	65.80	6.232e+04	
		-1.030e+05	-227.85	4.47e-03	0.0	300.0	-80.05	-1136.22	-0.98	1.900e+04	-227.85	-	
1.030e+05													
39	3	4.764e+04	36.94	0.03	-900.00	0.0	-60.06	30.92	-0.55	1.052e+04	36.94	4.764e+04	
		-7.809e+04	-126.77	2.48e-03	0.0	300.0	-60.06	-869.08	-0.55	1.052e+04	-126.77	-	
7.809e+04													
39	9	4.888e+04	4236.56	0.03	-900.00	0.0	-227.96	-85.64	-47.65	1.181e+04	4236.56	4.888e+04	
		-1.125e+05	-1.015e+04	0.01	0.0	300.0	-227.96	-985.64	-47.65	1.181e+04	-1.015e+04	-	
1.125e+05													
39	10	4.841e+04	-785.61	0.03	-900.00	0.0	-168.89	-89.14	4.77	9333.45	-2138.40	4.841e+04	
		-1.131e+05	-2138.40	-2.95e-03	0.0	300.0	-168.89	-989.14	4.77	9333.45	-785.61	-	
1.131e+05													
39	11	5.047e+04	2212.44	0.02	-900.00	0.0	49.59	150.99	-5.87	1.176e+04	2212.44	4.686e+04	
		-4.306e+04	531.48	7.92e-03	0.0	300.0	49.59	-749.01	-5.87	1.176e+04	531.48	-	
4.306e+04													
39	12	4.997e+04	9895.57	0.02	-900.00	0.0	108.66	147.49	46.56	9286.63	-4162.52	4.639e+04	
		-4.369e+04	-4162.52	-8.68e-03	0.0	300.0	108.66	-752.51	46.56	9286.63	9895.57	-	
4.369e+04													
39	29	4.872e+04	1.097e+04	0.02	-900.00	0.0	-199.73	1.27	-94.19	1.467e+04	1.097e+04	4.872e+04	
		-8.746e+04	-1.734e+04	0.03	0.0	300.0	-199.73	-898.73	-94.19	1.467e+04	-1.734e+04	-	
8.746e+04													
39	32	4.717e+04	1.708e+04	0.03	-900.00	0.0	80.42	60.59	93.10	6419.00	-1.089e+04	4.655e+04	
		-6.872e+04	-1.089e+04	-0.03	0.0	300.0	80.42	-839.41	93.10	6419.00	1.708e+04	-	
6.872e+04													
39	41	4.948e+04	6686.77	0.03	-900.00	0.0	-325.74	-154.42	-75.36	1.255e+04	6686.77	4.948e+04	
		-1.328e+05	-1.605e+04	0.02	0.0	300.0	-325.74	-1054.42	-75.36	1.255e+04	-1.605e+04	-	
1.328e+05													
39	42	4.875e+04	-1163.87	0.03	-900.00	0.0	-231.94	-159.91	7.99	8614.95	-3448.38	4.875e+04	
		-1.338e+05	-3448.38	-6.18e-03	0.0	300.0	-231.94	-1059.91	7.99	8614.95	-1163.87	-	
1.338e+05													
39	43	5.454e+04	3522.41	0.02	-900.00	0.0	112.63	221.76	-9.08	1.248e+04	3522.41	4.652e+04	
		-2.240e+04	909.74	0.01	0.0	300.0	112.63	-678.24	-9.08	1.248e+04	909.74	-	
2.240e+04													
39	44	5.374e+04	1.579e+04	0.02	-900.00	0.0	206.43	216.27	74.26	8546.41	-6612.73	4.579e+04	
		-2.339e+04	-6612.73	-0.02	0.0	300.0	206.43	-683.73	74.26	8546.41	1.579e+04	-	
2.339e+04													
39	61	4.930e+04	1.740e+04	0.02	-900.00	0.0	-281.74	-16.35	-149.39	1.711e+04	1.740e+04	4.930e+04	
		-9.300e+04	-2.748e+04	0.05	0.0	300.0	-281.74	-916.35	-149.39	1.711e+04	-2.748e+04	-	
9.300e+04													
39	64	4.720e+04	2.723e+04	0.03	-900.00	0.0	162.44	78.20	148.30	3984.56	-1.733e+04	4.597e+04	
		-6.317e+04	-1.733e+04	-0.04	0.0	300.0	162.44	-821.80	148.30	3984.56	2.723e+04	-	

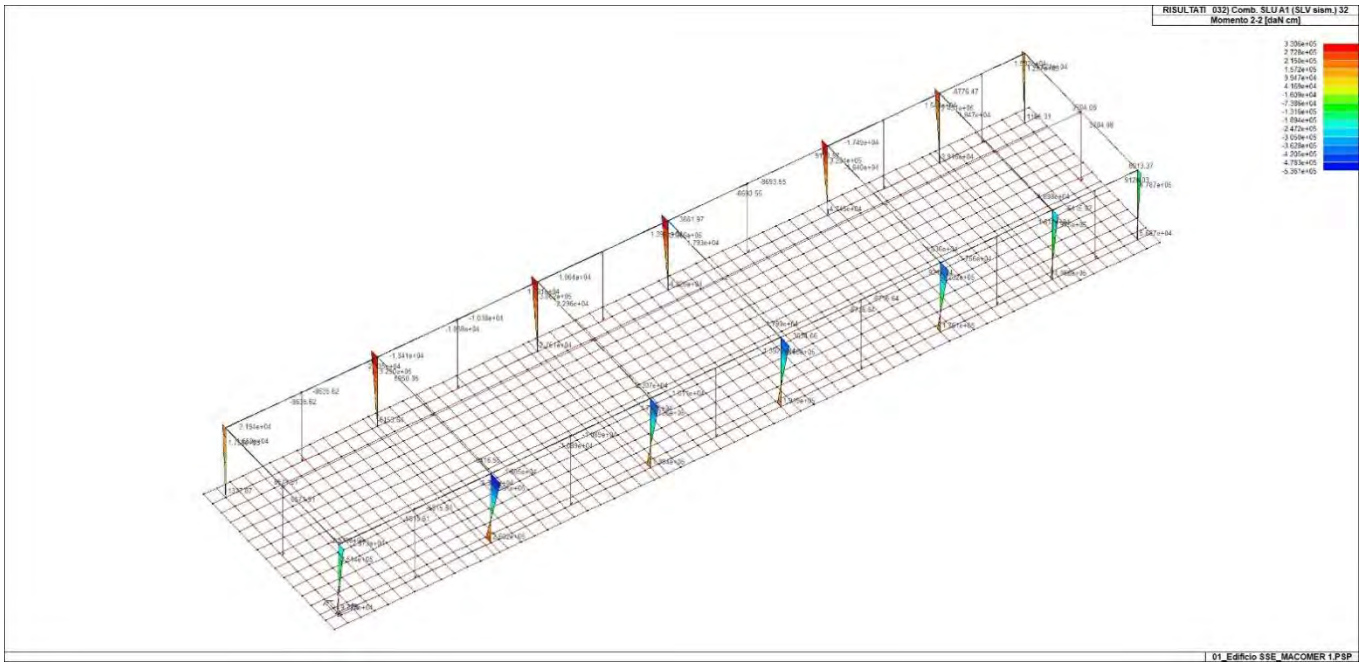
6.317e+04													
39	69	4.763e+04	37.02	0.03	-900.00	0.0	-59.65	30.93	-0.55	1.055e+04	37.02	4.763e+04	
		-7.809e+04	-127.06	2.48e-03	0.0	300.0	-59.65	-869.07	-0.55	1.055e+04	-127.06		-
7.809e+04													
39	70	4.790e+04	48.75	0.03	-900.00	0.0	-61.59	26.64	-0.72	1.406e+04	48.75	4.790e+04	
		-7.911e+04	-168.65	3.31e-03	0.0	300.0	-61.59	-873.36	-0.72	1.406e+04	-168.65		-
7.911e+04													
39	71	4.763e+04	37.02	0.03	-900.00	0.0	-59.65	30.93	-0.55	1.055e+04	37.02	4.763e+04	
		-7.809e+04	-127.06	2.48e-03	0.0	300.0	-59.65	-869.07	-0.55	1.055e+04	-127.06		-
7.809e+04													
39	72	4.769e+04	39.37	0.03	-900.00	0.0	-60.04	30.07	-0.58	1.125e+04	39.37	4.769e+04	
		-7.829e+04	-135.38	2.65e-03	0.0	300.0	-60.04	-869.93	-0.58	1.125e+04	-135.38		-
7.829e+04													
40	1	7.134e+04	88.62	0.04	-1170.00	0.0	-88.20	7.58	0.19	3836.09	31.95	7.134e+04	
		-1.019e+05	31.95	9.45e-04	0.0	300.0	-88.20	-1162.42	0.19	3836.09	88.62		-
1.019e+05													
40	2	7.189e+04	119.33	0.04	-1170.00	0.0	-99.68	9.26	0.25	5327.09	44.16	7.189e+04	
		-1.008e+05	44.16	1.31e-03	0.0	300.0	-99.68	-1160.74	0.25	5327.09	119.33		-
1.008e+05													
40	3	5.487e+04	67.93	0.03	-900.00	0.0	-68.56	5.82	0.14	2937.45	24.48	5.487e+04	
		-7.838e+04	24.48	7.24e-04	0.0	300.0	-68.56	-894.18	0.14	2937.45	67.93		-
7.838e+04													
40	5	5.596e+04	3619.25	0.03	-900.00	0.0	-398.39	-111.08	-29.19	3624.26	3619.25	5.596e+04	
		-1.125e+05	-5727.88	6.42e-03	0.0	300.0	-398.39	-1011.08	-29.19	3624.26	-5727.88		-
1.125e+05													
40	8	5.632e+04	5864.02	0.03	-900.00	0.0	262.07	122.73	29.48	2265.78	-3570.18	5.379e+04	
		-4.422e+04	-3570.18	-4.97e-03	0.0	300.0	262.07	-777.27	29.48	2265.78	5864.02		-
4.422e+04													
40	10	5.656e+04	-2388.97	0.03	-900.00	0.0	-332.48	-114.20	-7.73	2392.78	-2388.97	5.656e+04	
		-1.130e+05	-2918.57	1.13e-03	0.0	300.0	-332.48	-1014.20	-7.73	2392.78	-2918.57		-
1.130e+05													
40	21	5.456e+04	1.143e+04	0.03	-900.00	0.0	-280.55	-26.22	-43.15	4400.70	1.143e+04	5.456e+04	
		-8.831e+04	-3301.44	0.01	0.0	300.0	-280.55	-926.22	-43.15	4400.70	-3301.44		-
8.831e+04													
40	24	5.520e+04	3437.57	0.03	-900.00	0.0	144.24	37.87	43.44	1489.34	-1.138e+04	5.519e+04	
		-6.845e+04	-1.138e+04	-0.01	0.0	300.0	144.24	-862.13	43.44	1489.34	3437.57		-
6.845e+04													
40	37	5.651e+04	5730.58	0.03	-900.00	0.0	-593.03	-180.10	-46.44	4021.50	5730.58	5.651e+04	
		-1.327e+05	-9059.13	9.76e-03	0.0	300.0	-593.03	-1080.10	-46.44	4021.50	-9059.13		-
1.327e+05													
40	40	5.923e+04	9195.26	0.03	-900.00	0.0	456.72	191.75	46.73	1868.54	-5681.51	5.324e+04	
		-2.407e+04	-5681.51	-8.31e-03	0.0	300.0	456.72	-708.25	46.73	1868.54	9195.26		-
2.407e+04													
40	42	5.743e+04	-3814.05	0.03	-900.00	0.0	-488.55	-184.93	-12.35	2066.99	-3814.05	5.743e+04	
		-1.334e+05	-4666.92	1.58e-03	0.0	300.0	-488.55	-1084.93	-12.35	2066.99	-4666.92		-
1.334e+05													
40	44	5.936e+04	1.203e+04	0.03	-900.00	0.0	442.79	189.92	44.68	1223.49	-4407.60	5.353e+04	
		-2.443e+04	-4407.60	-7.20e-03	0.0	300.0	442.79	-710.08	44.68	1223.49	1.203e+04		-
2.443e+04													
40	53	5.441e+04	1.814e+04	0.03	-900.00	0.0	-405.21	-45.40	-68.65	5253.97	1.814e+04	5.441e+04	
		-9.418e+04	-5036.03	0.02	0.0	300.0	-405.21	-945.40	-68.65	5253.97	-5036.03		-
9.418e+04													
40	56	5.583e+04	5172.16	0.03	-900.00	0.0	268.90	57.05	68.94	636.07	-1.810e+04	5.534e+04	
		-6.257e+04	-1.810e+04	-0.02	0.0	300.0	268.90	-842.95	68.94	636.07	5172.16		-
6.257e+04													
40	69	5.487e+04	68.07	0.03	-900.00	0.0	-68.16	5.83	0.15	2945.02	24.54	5.487e+04	
		-7.838e+04	24.54	7.25e-04	0.0	300.0	-68.16	-894.17	0.15	2945.02	68.07		-
7.838e+04													
40	70	5.524e+04	88.54	0.03	-900.00	0.0	-75.81	6.95	0.19	3939.02	32.68	5.524e+04	
		-7.768e+04	32.68	9.68e-04	0.0	300.0	-75.81	-893.05	0.19	3939.02	88.54		-
7.768e+04													
40	71	5.487e+04	68.07	0.03	-900.00	0.0	-68.16	5.83	0.15	2945.02	24.54	5.487e+04	
		-7.838e+04	24.54	7.25e-04	0.0	300.0	-68.16	-894.17	0.15	2945.02	68.07		-
7.838e+04													
40	72	5.495e+04	72.16	0.03	-900.00	0.0	-69.69	6.05	0.15	3143.82	26.16	5.495e+04	
		-7.824e+04	26.16	7.74e-04	0.0	300.0	-69.69	-893.95	0.15	3143.82	72.16		-
7.824e+04													
41	1	7.132e+04	-40.61	0.04	-1170.00	0.0	-89.83	7.54	-0.18	-3833.72	-40.61	7.132e+04	
		-1.019e+05	-94.13	-9.34e-04	0.0	300.0	-89.83	-1162.46	-0.18	-3833.72	-94.13		-
1.019e+05													
41	2	7.186e+04	-55.34	0.04	-1170.00	0.0	-101.48	9.21	-0.23	-5324.19	-55.34	7.186e+04	
		-1.009e+05	-125.73	-1.30e-03	0.0	300.0	-101.48	-1160.79	-0.23	-5324.19	-125.73		-
1.009e+05													
41	3	5.485e+04	-31.11	0.03	-900.00	0.0	-69.82	5.79	-0.14	-2935.63	-31.11	5.485e+04	
		-7.841e+04	-72.16	-7.15e-04	0.0	300.0	-69.82	-894.21	-0.14	-2935.63	-72.16		-
7.841e+04													

41	14	5.597e+04	5628.81	0.03	-900.00	0.0	-399.15	-111.05	28.85	-3625.09	-3625.92	5.597e+04
		-1.125e+05	-3625.92	-6.47e-03	0.0	300.0	-399.15	-1011.05	28.85	-3625.09	5628.81	-
1.125e+05												
41	15	5.627e+04	3563.56	0.03	-900.00	0.0	260.32	122.64	-29.13	-2261.30	3563.56	5.374e+04
		-4.432e+04	-5773.41	5.03e-03	0.0	300.0	260.32	-777.36	-29.13	-2261.30	-5773.41	-
4.432e+04												
41	17	5.641e+04	2816.53	0.03	-900.00	0.0	-332.75	-113.48	7.37	-2393.39	2383.16	5.641e+04
		-1.129e+05	2383.16	-1.14e-03	0.0	300.0	-332.75	-1013.48	7.37	-2393.39	2816.53	-
1.129e+05												
41	26	5.468e+04	3286.89	0.03	-900.00	0.0	-281.50	-26.77	43.08	-4400.01	-1.143e+04	5.468e+04
		-8.831e+04	-1.143e+04	-0.01	0.0	300.0	-281.50	-926.77	43.08	-4400.01	3286.89	-
8.831e+04												
41	27	5.505e+04	1.137e+04	0.03	-900.00	0.0	142.67	38.36	-43.35	-1486.39	1.137e+04	5.503e+04
		-6.850e+04	-3431.49	0.01	0.0	300.0	142.67	-861.64	-43.35	-1486.39	-3431.49	-
6.850e+04												
41	46	5.653e+04	8904.32	0.03	-900.00	0.0	-593.49	-180.00	45.91	-4024.15	-5736.62	5.653e+04
		-1.326e+05	-5736.62	-9.84e-03	0.0	300.0	-593.49	-1080.00	45.91	-4024.15	8904.32	-
1.326e+05												
41	47	5.914e+04	5674.26	0.03	-900.00	0.0	454.66	191.59	-46.18	-1862.24	5674.26	5.318e+04
		-2.421e+04	-9048.92	8.40e-03	0.0	300.0	454.66	-708.41	-46.18	-1862.24	-9048.92	-
2.421e+04												
41	49	5.721e+04	4508.00	0.03	-900.00	0.0	-488.25	-183.79	11.79	-2069.30	3809.36	5.721e+04
		-1.332e+05	3809.36	-1.59e-03	0.0	300.0	-488.25	-1083.79	11.79	-2069.30	4508.00	-
1.332e+05												
41	51	5.919e+04	4402.47	0.03	-900.00	0.0	441.69	190.33	-44.14	-1217.19	4402.47	5.335e+04
		-2.452e+04	-1.187e+04	7.28e-03	0.0	300.0	441.69	-709.67	-44.14	-1217.19	-1.187e+04	-
2.452e+04												
41	58	5.459e+04	5013.63	0.03	-900.00	0.0	-405.93	-46.11	68.52	-5254.00	-1.815e+04	5.459e+04
		-9.416e+04	-1.815e+04	-0.02	0.0	300.0	-405.93	-946.11	68.52	-5254.00	5013.63	-
9.416e+04												
41	59	5.562e+04	1.809e+04	0.03	-900.00	0.0	267.10	57.70	-68.80	-632.39	1.809e+04	5.512e+04
		-6.265e+04	-5158.23	0.02	0.0	300.0	267.10	-842.30	-68.80	-632.39	-5158.23	-
6.265e+04												
41	69	5.486e+04	-31.18	0.03	-900.00	0.0	-69.41	5.80	-0.14	-2943.20	-31.18	5.486e+04
		-7.841e+04	-72.30	-7.17e-04	0.0	300.0	-69.41	-894.20	-0.14	-2943.20	-72.30	-
7.841e+04												
41	70	5.522e+04	-41.00	0.03	-900.00	0.0	-77.18	6.91	-0.17	-3936.84	-41.00	5.522e+04
		-7.771e+04	-93.36	-9.59e-04	0.0	300.0	-77.18	-893.09	-0.17	-3936.84	-93.36	-
7.771e+04												
41	71	5.486e+04	-31.18	0.03	-900.00	0.0	-69.41	5.80	-0.14	-2943.20	-31.18	5.486e+04
		-7.841e+04	-72.30	-7.17e-04	0.0	300.0	-69.41	-894.20	-0.14	-2943.20	-72.30	-
7.841e+04												
41	72	5.493e+04	-33.14	0.03	-900.00	0.0	-70.97	6.02	-0.14	-3141.93	-33.14	5.493e+04
		-7.827e+04	-76.51	-7.65e-04	0.0	300.0	-70.97	-893.98	-0.14	-3141.93	-76.51	-
7.827e+04												

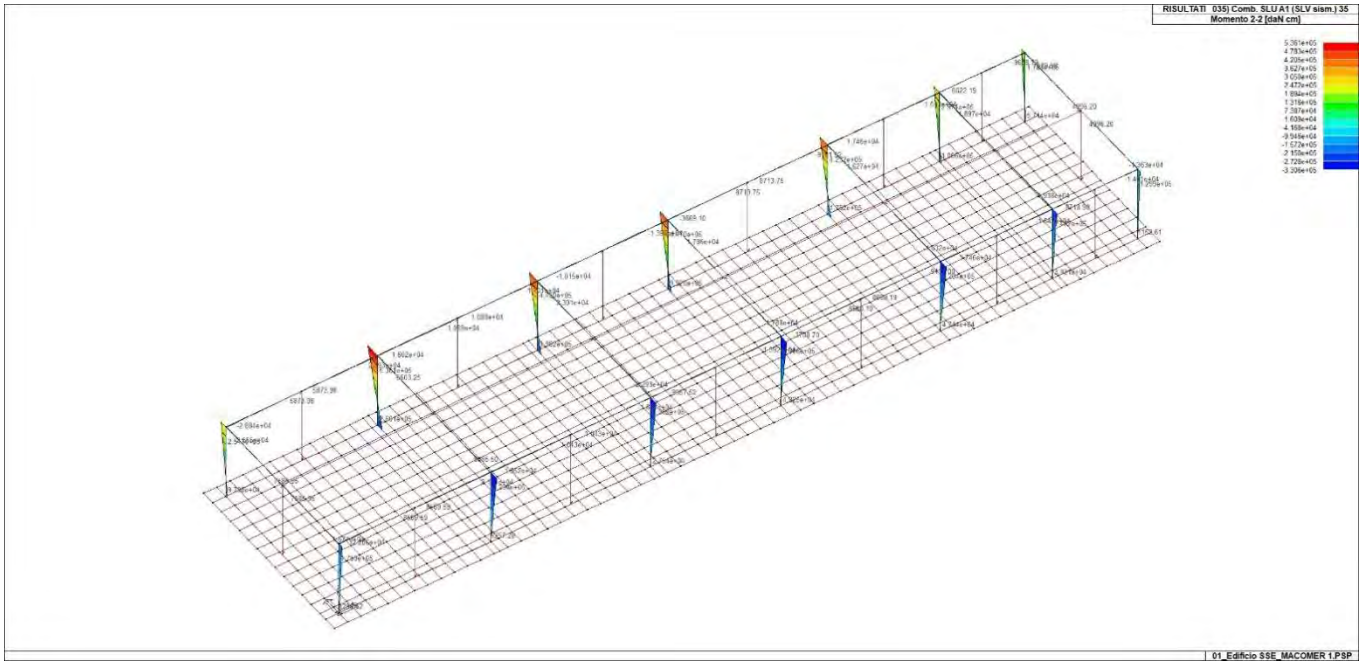
Trave	**M3 mx/mn**	**M2 mx/mn**	**D 2 / D 3**	**Q 2 / Q 3**	**N**	**V 2**	**V 3**	**T**
	-7.775e+05	-4.908e+04	-0.79	-2.475e+04	-3279.79	-1.238e+04	-261.26	-7.400e+04
	1.172e+06	4.903e+04	0.36	0.0	536.82	1.238e+04	260.66	7.399e+04



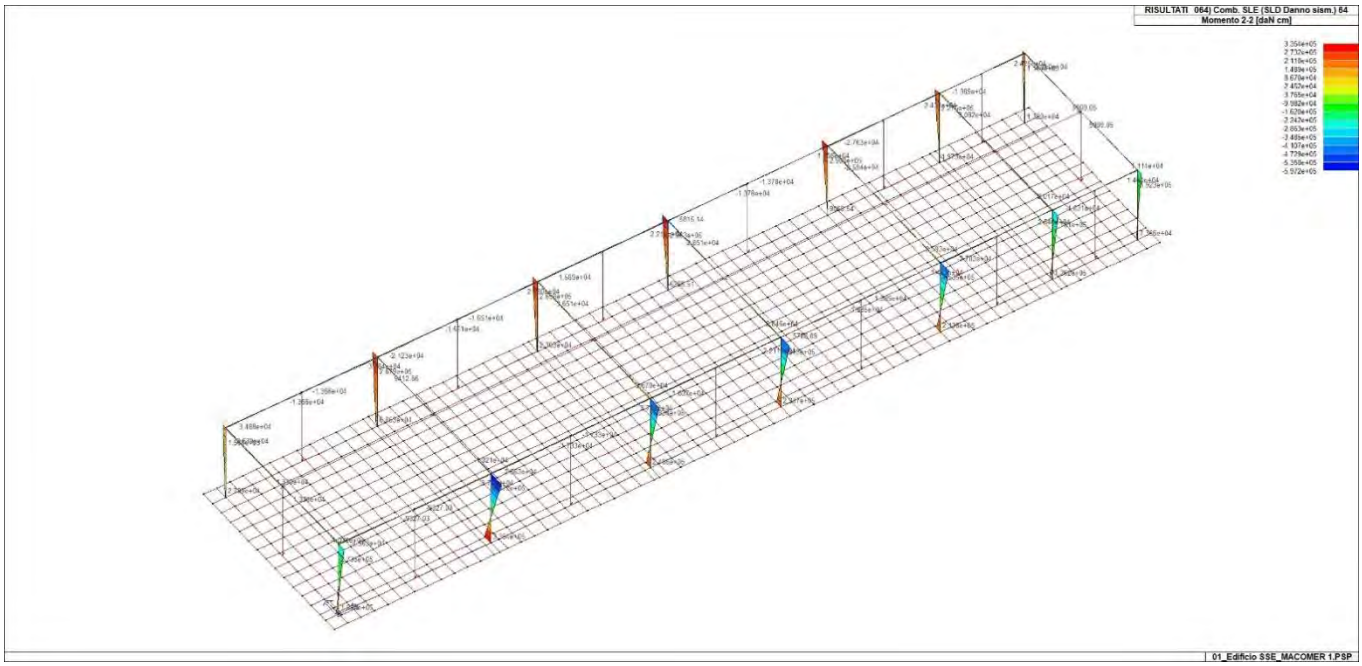
43_RIS_M2_002_Comb. SLU A1 2



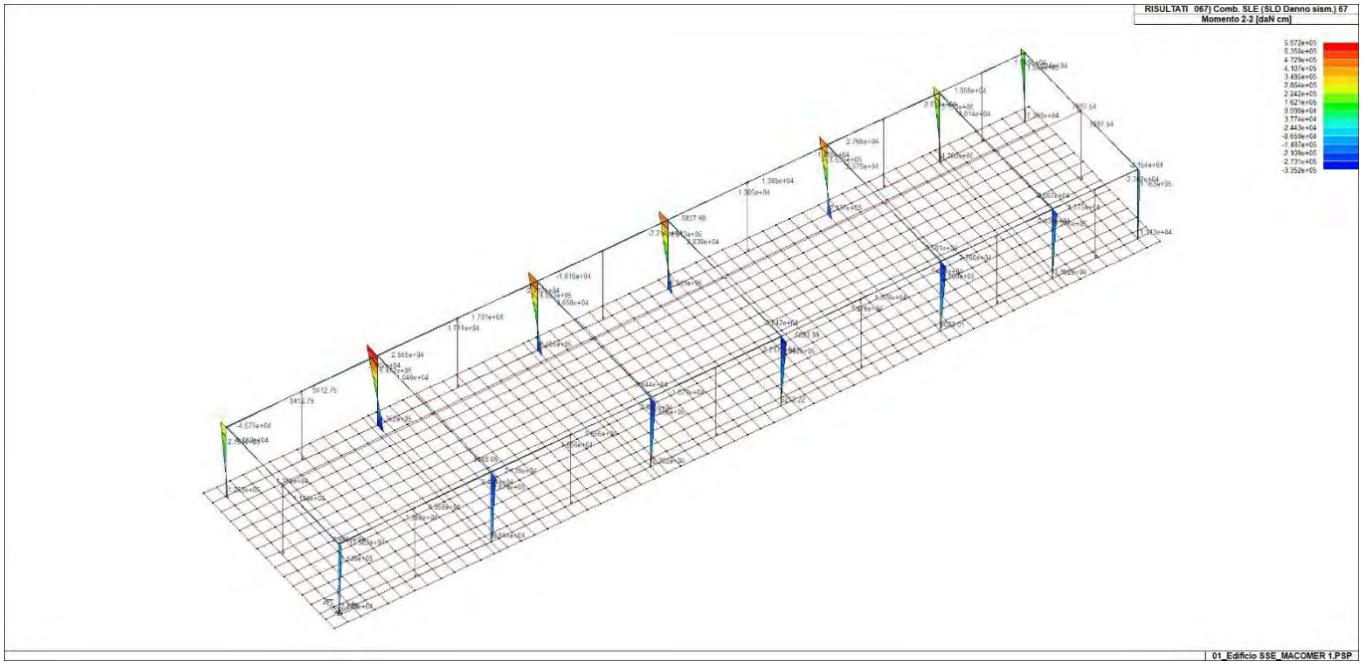
43_RIS_M2_032_Comb. SLU A1 (SLV sism.) 32



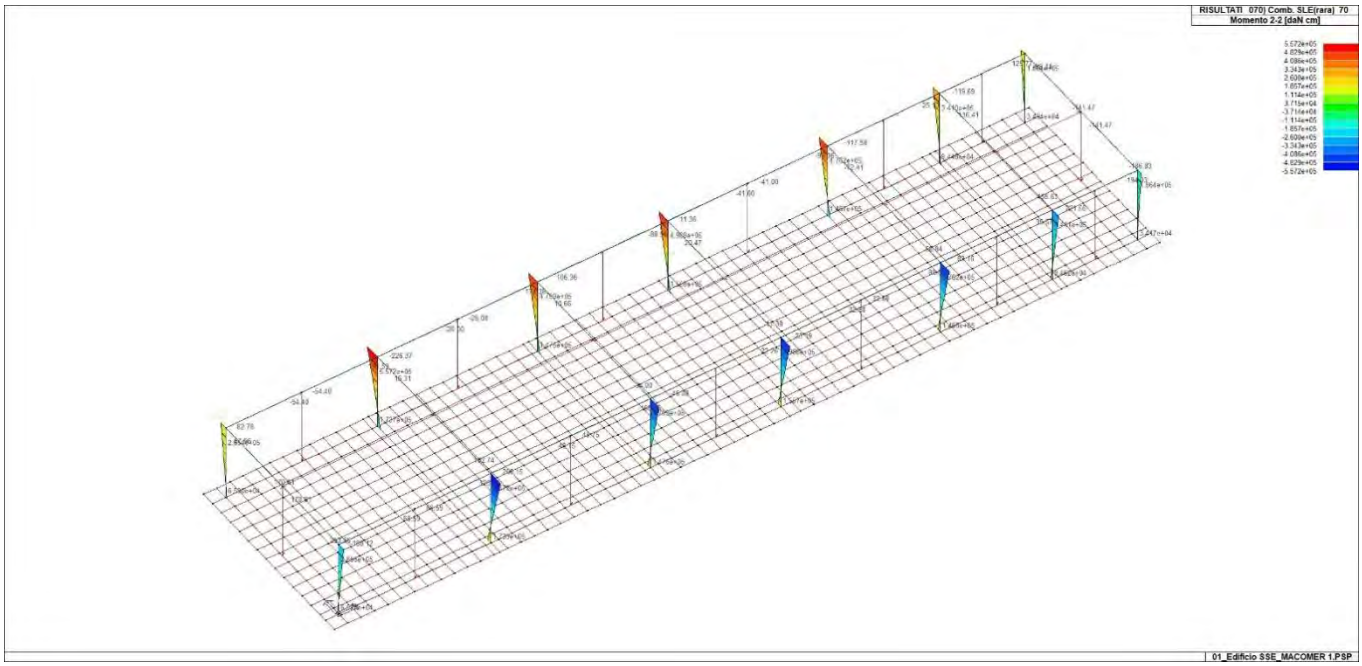
43_RIS_M2_035_Comb. SLU A1 (SLV sism.) 35



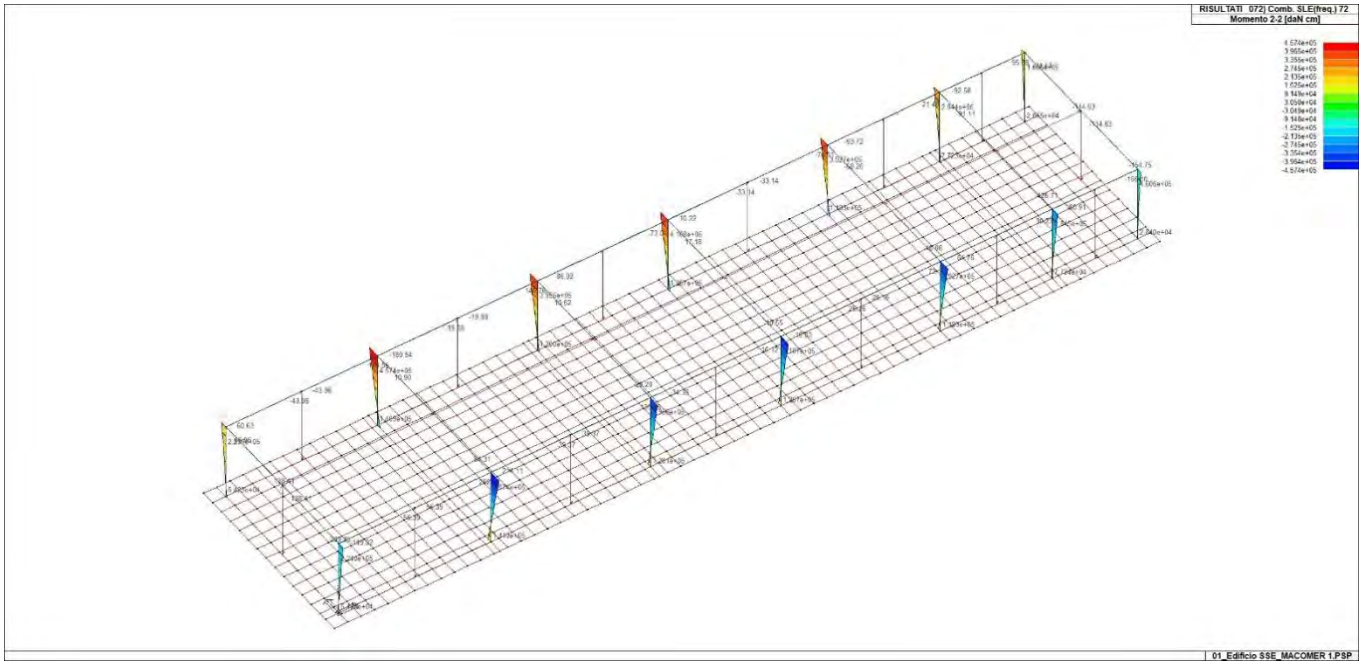
43_RIS_M2_064_Comb. SLE (SLD Danno sism.) 64



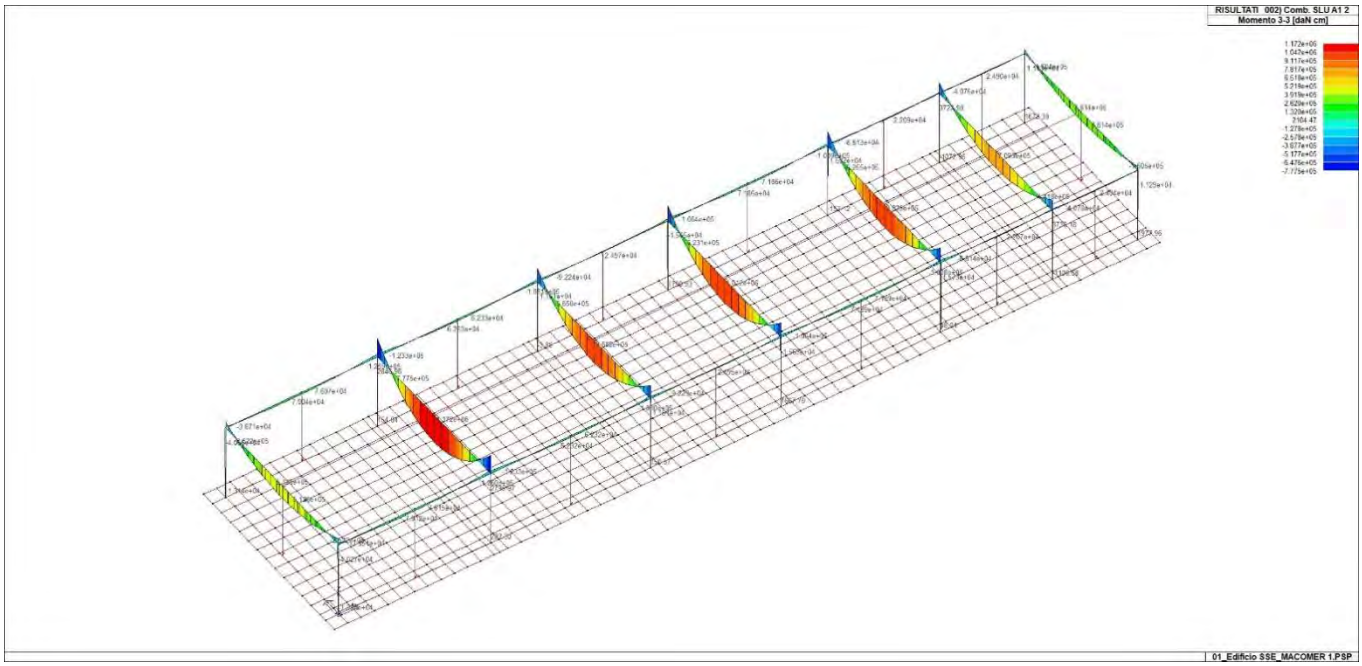
43_RIS_M2_067_Comb. SLE (SLD Danno sism.) 67



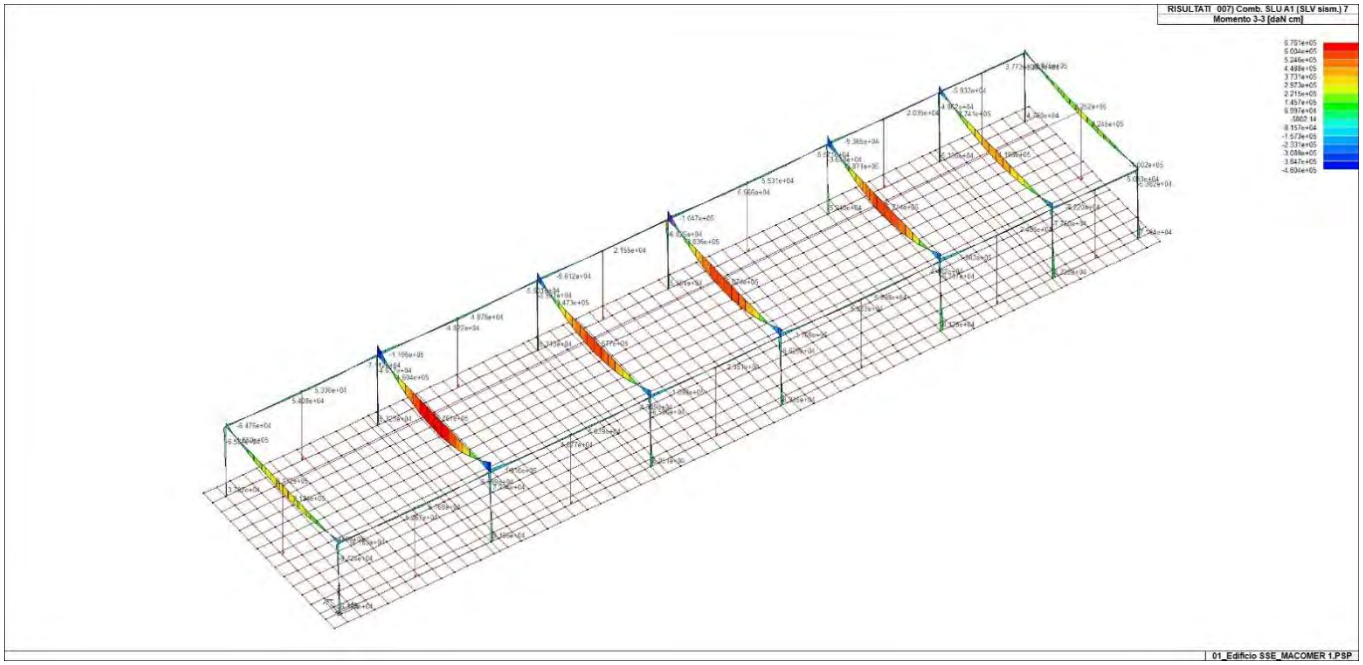
43_RIS_M2_070_Comb. SLE(rara) 70



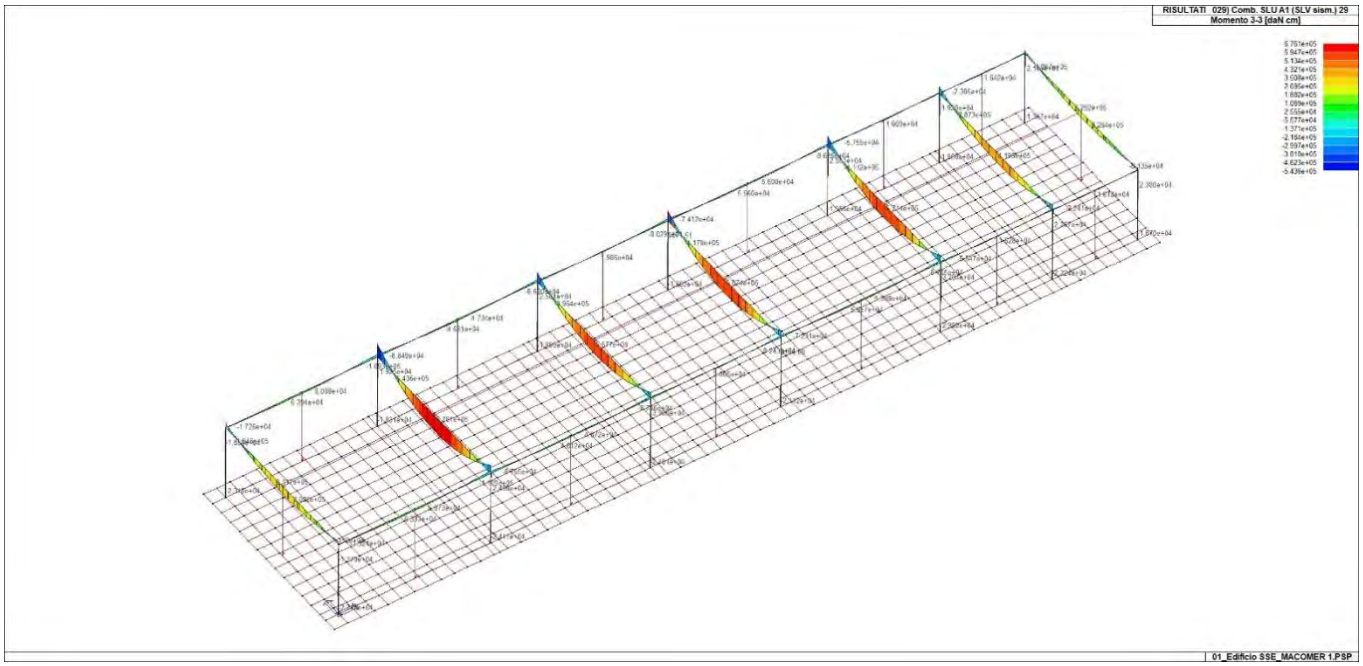
43_RIS_M2_072_Comb. SLE(freq.) 72



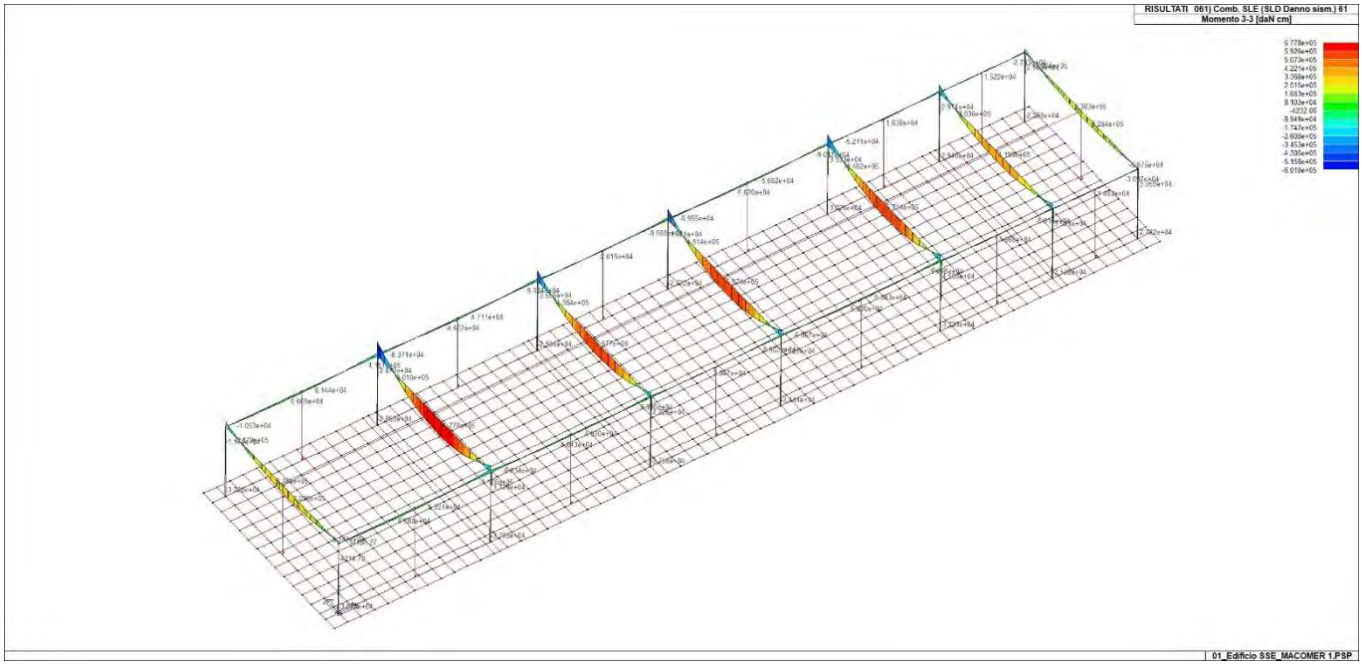
43_RIS_M3_002_Comb. SLU A1 2



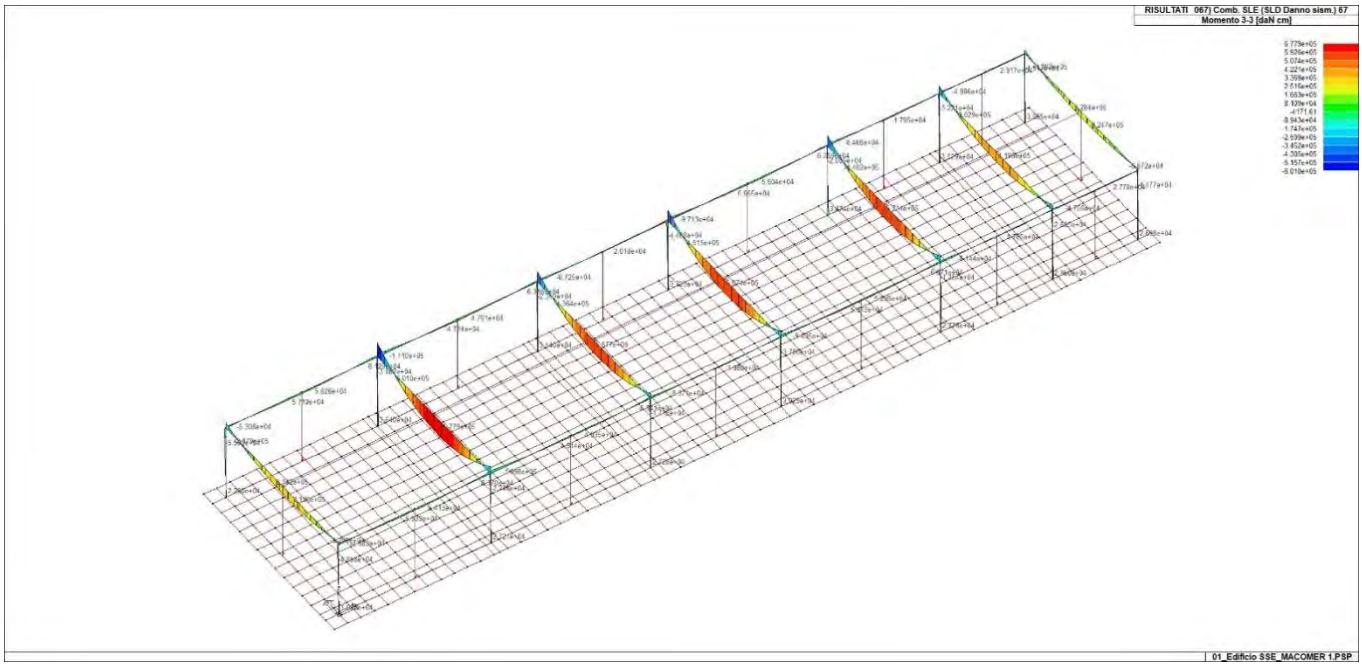
43_RIS_M3_007_Comb. SLU A1 (SLV sism.) 7



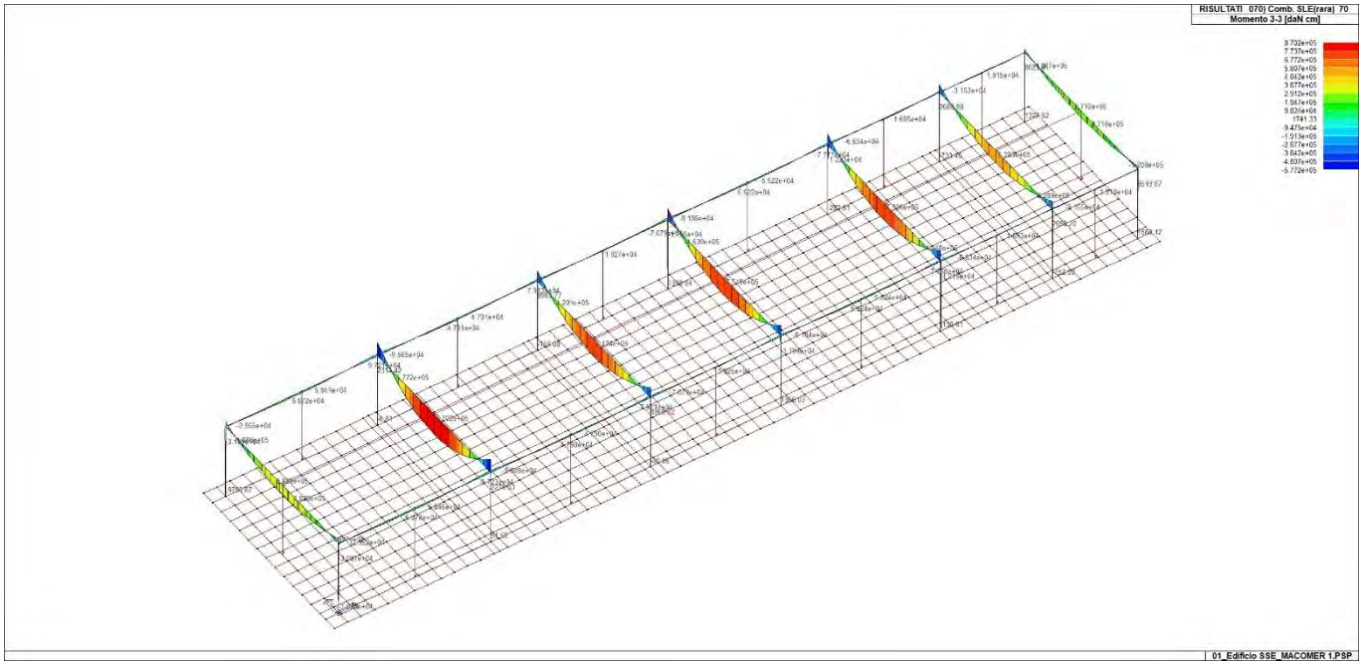
43_RIS_M3_029_Comb. SLU A1 (SLV sism.) 29



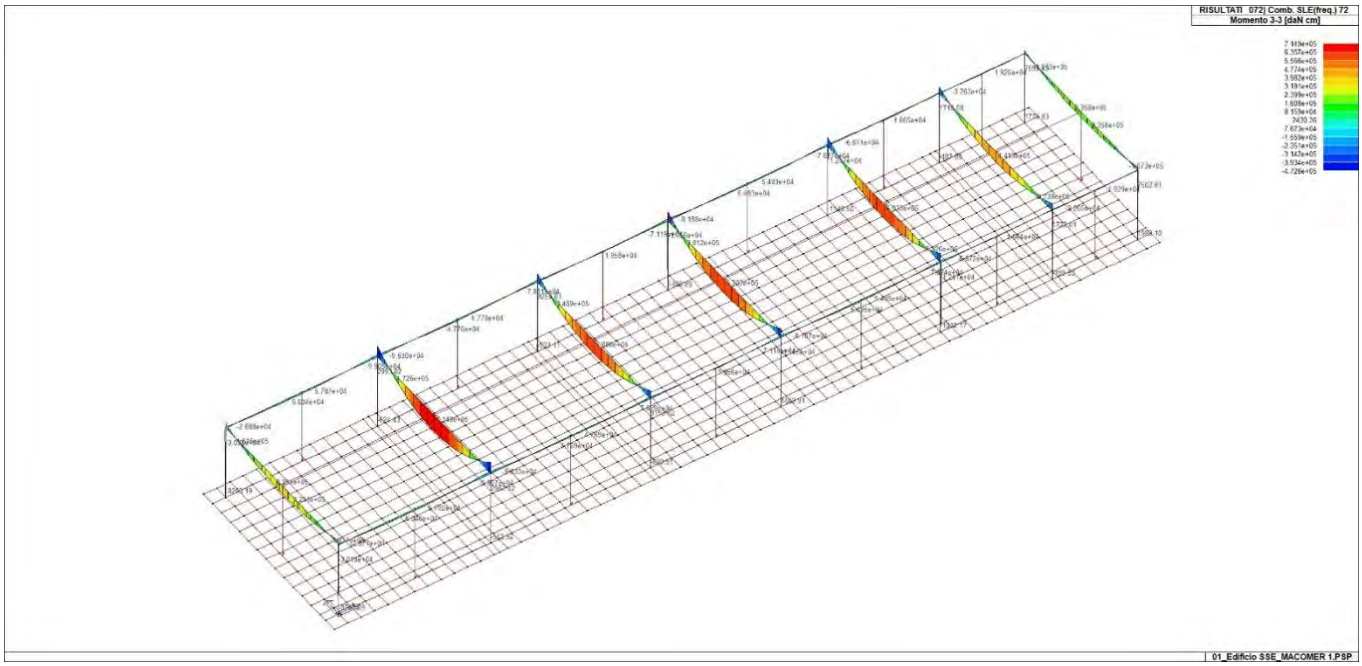
43_RIS_M3_061_Comb. SLE (SLD Danno sism.) 61



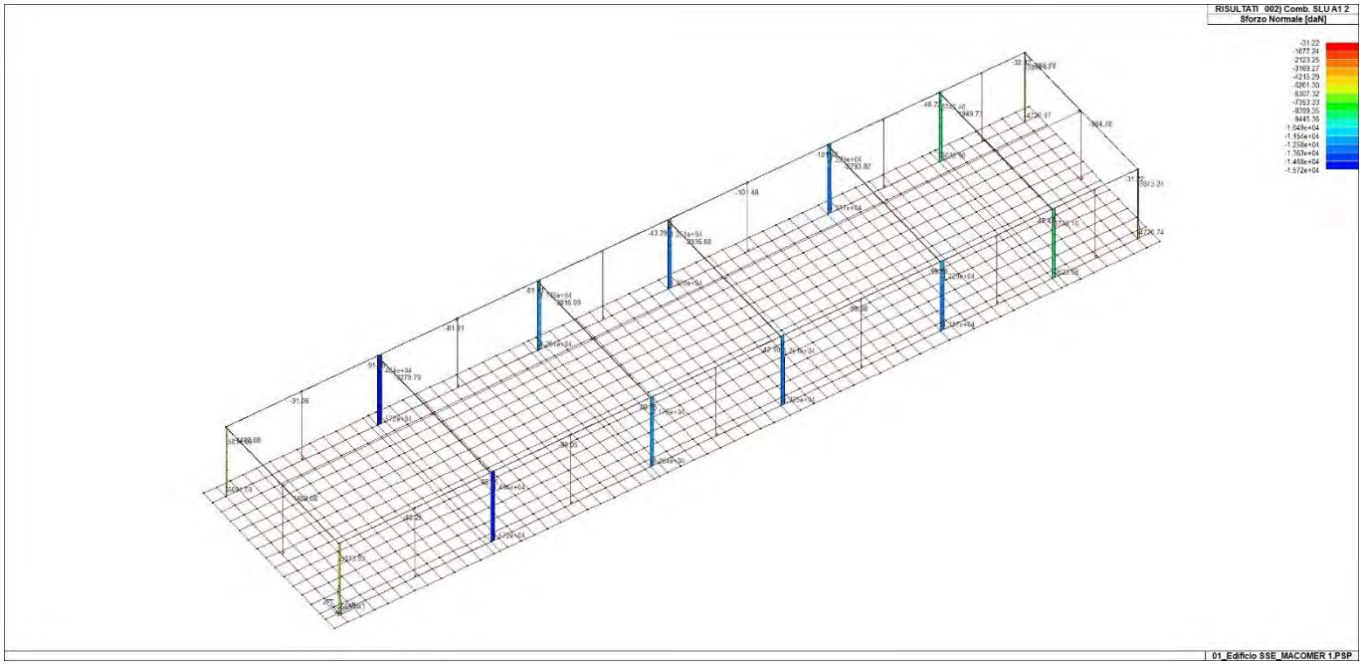
43_RIS_M3_067_Comb. SLE (SLD Danno sism.) 67



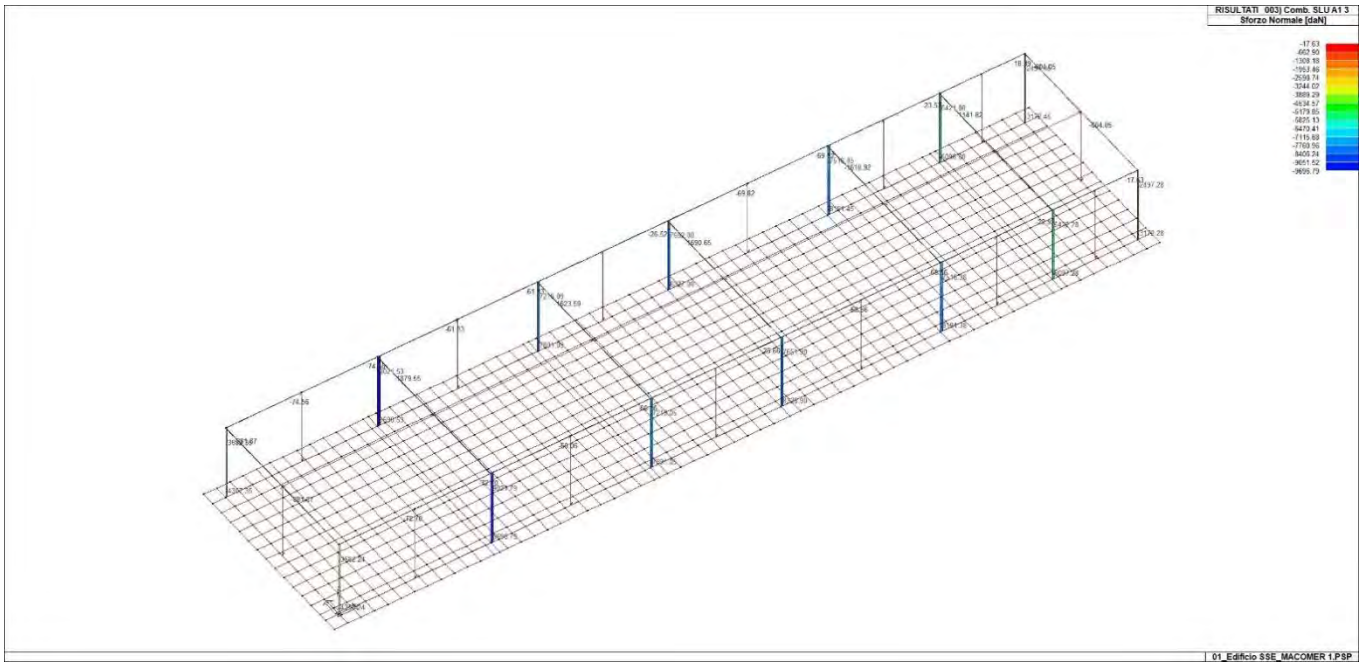
43_RIS_M3_070_Comb. SLE(rara) 70



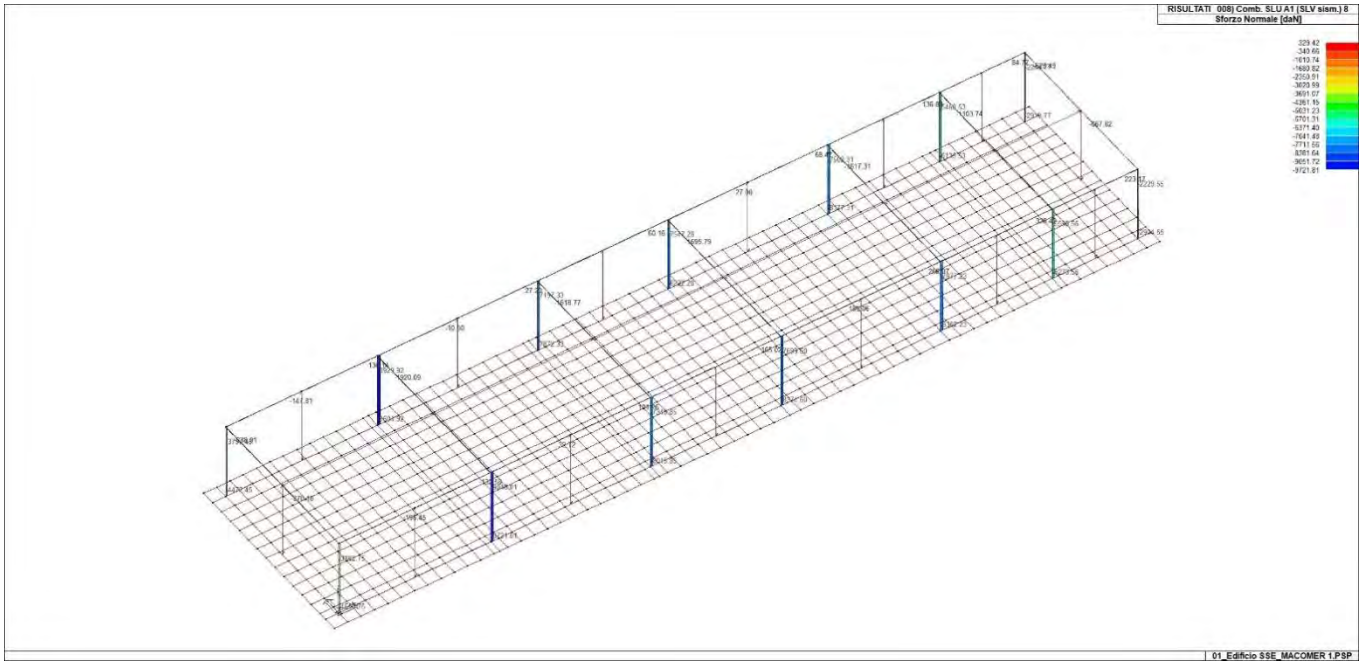
43_RIS_M3_072_Comb. SLE(freq.) 72



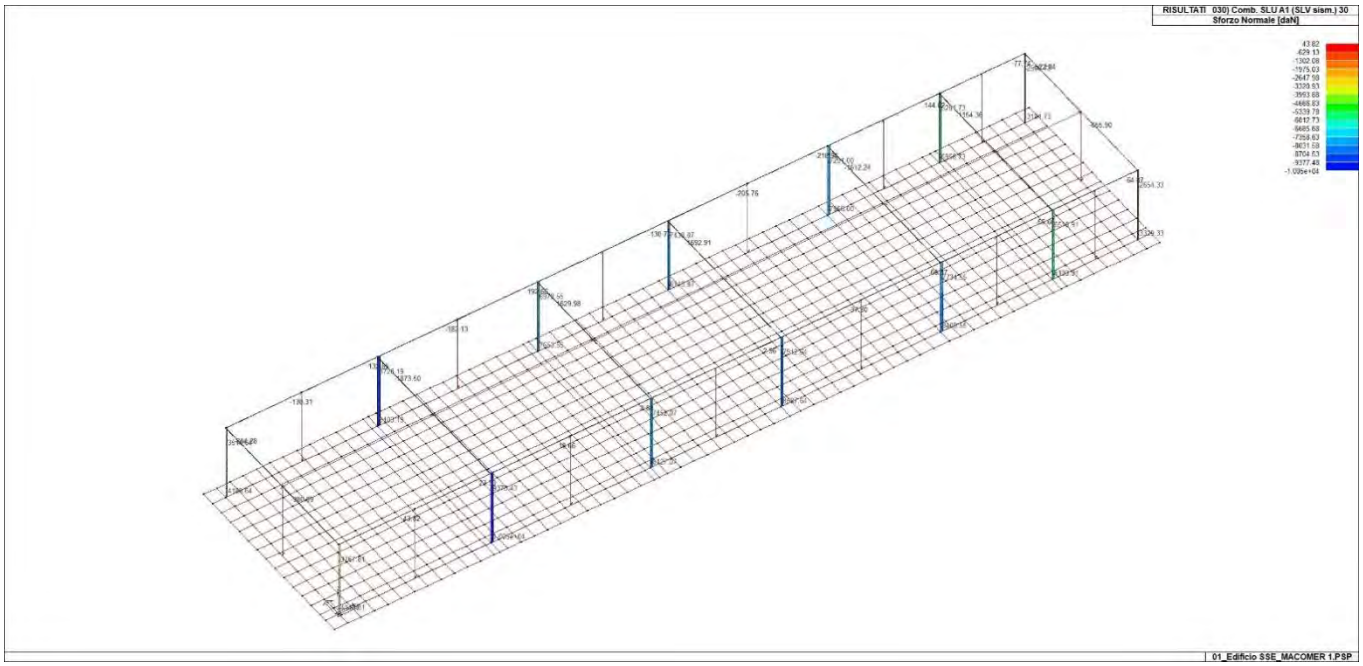
43_RIS_N_002_Comb. SLU A1 2



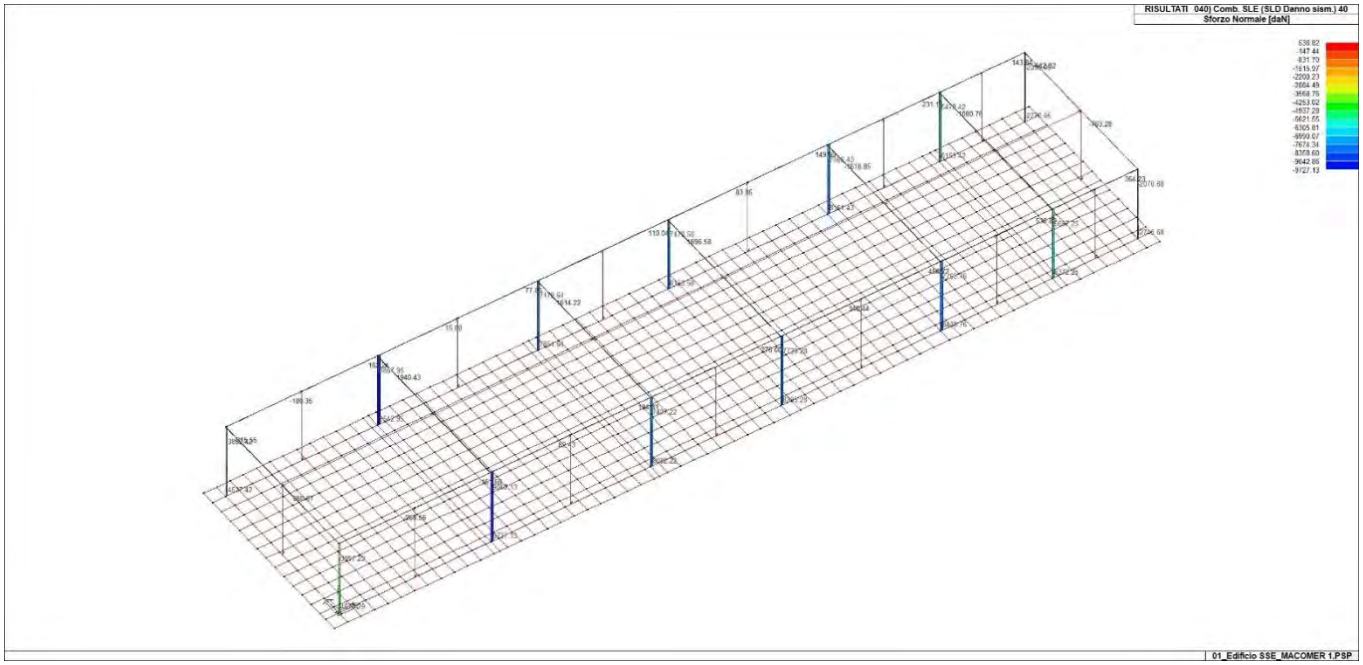
43_RIS_N_003_Comb. SLU A1 3



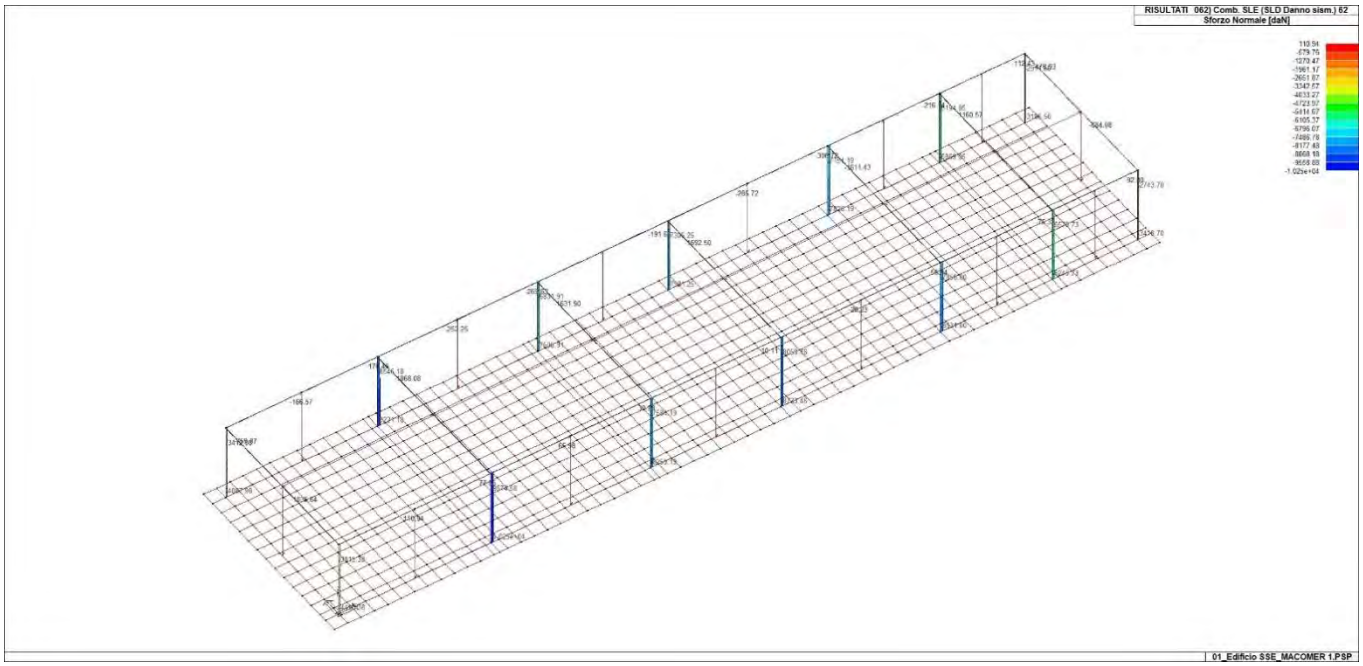
43_RIS_N_008_Comb. SLU A1 (SLV sism.) 8



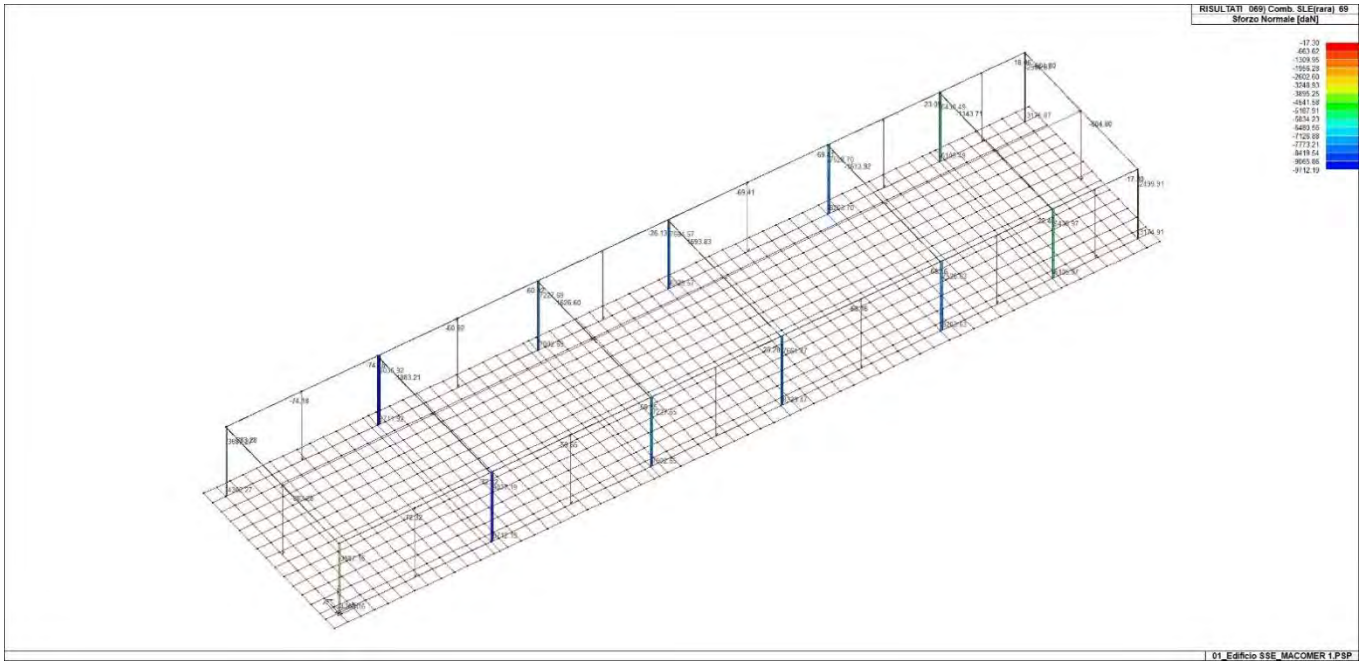
43_RIS_N_030_Comb. SLU A1 (SLV sism.) 30



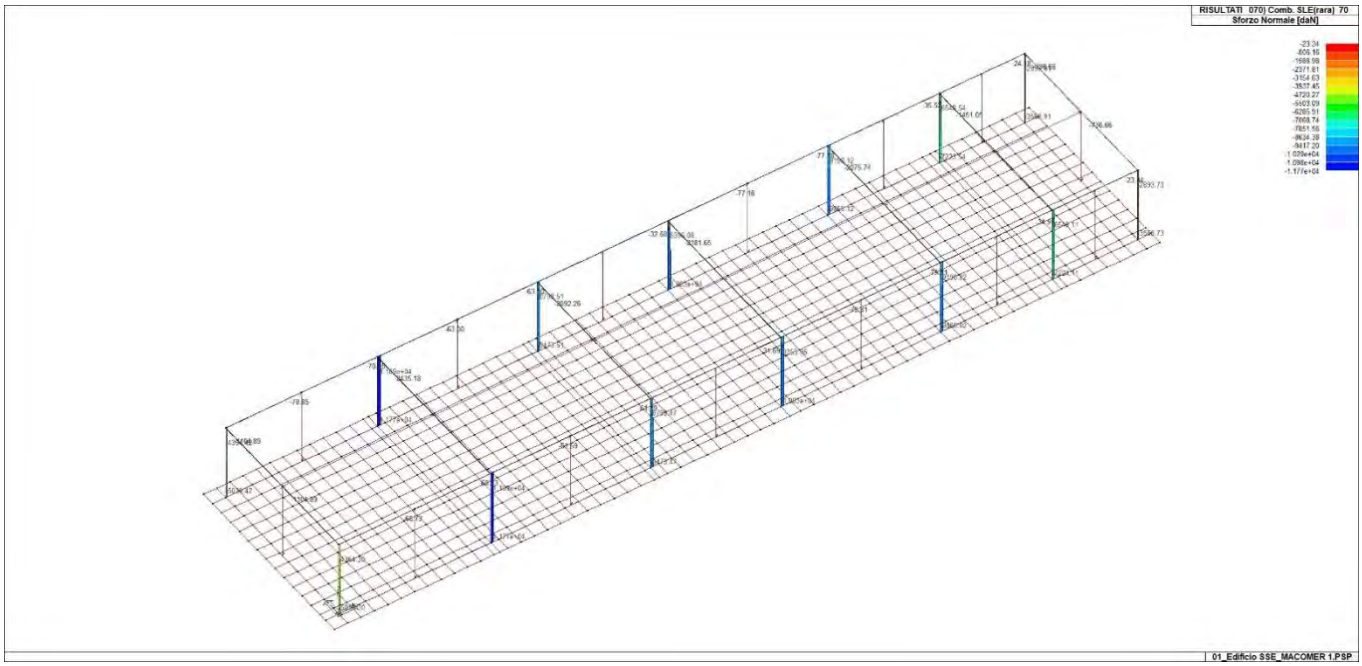
43_RIS_N_040_Comb. SLE (SLD Danno sism.) 40



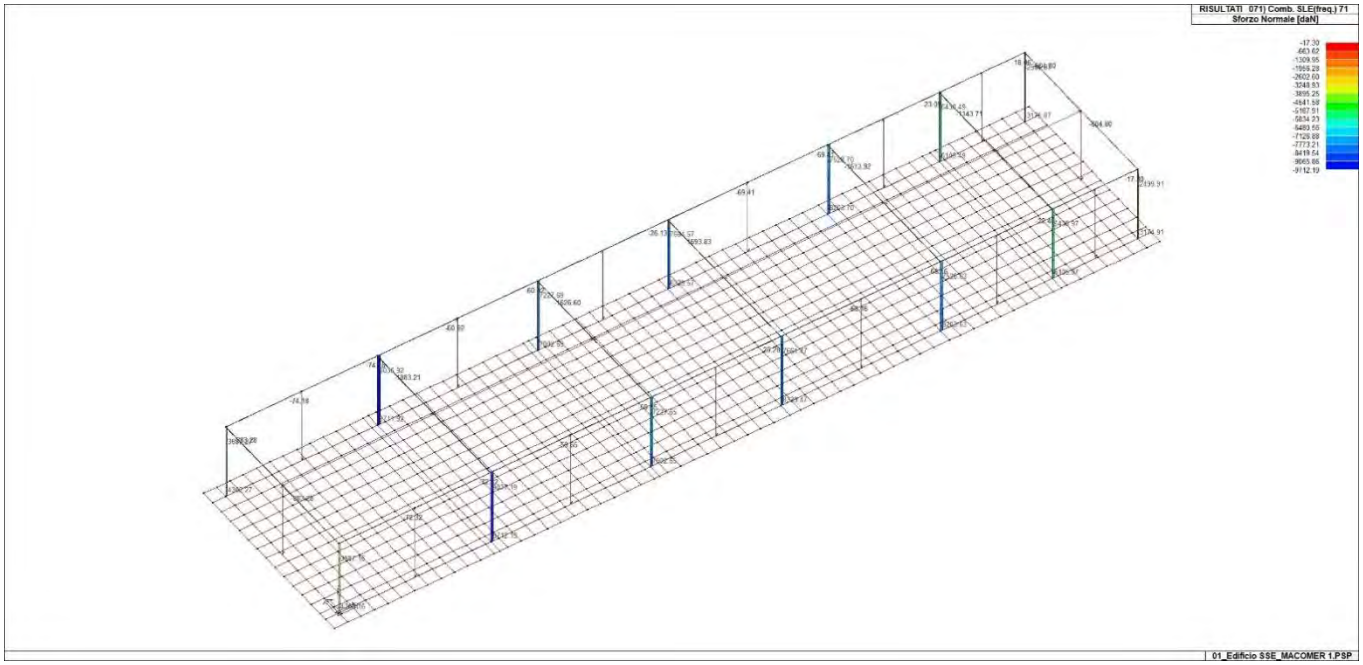
43_RIS_N_062_Comb. SLE (SLD Danno sism.) 62



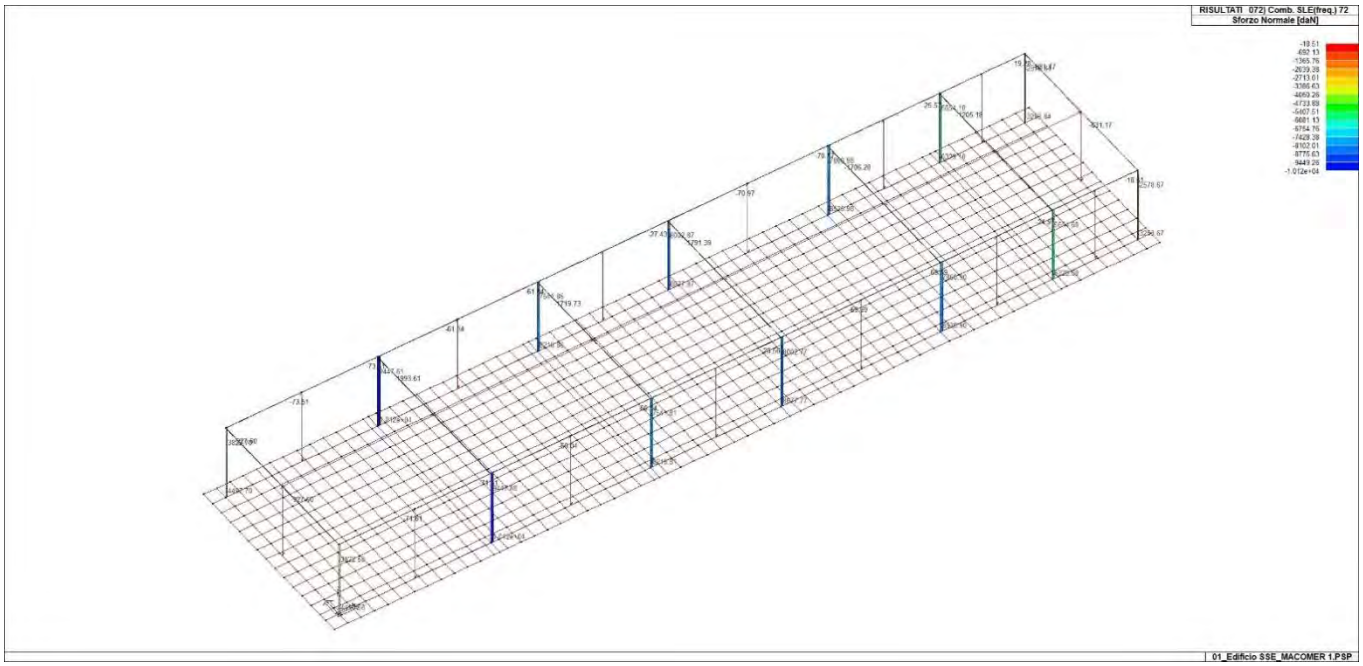
43_RIS_N_069_Comb. SLE(rara) 69



43_RIS_N_070_Comb. SLE(rara) 70



43_RIS_N_071_Comb. SLE(freq.) 71



43_RIS_N_072_Comb. SLE(freq.) 72

19. RISULTATI ELEMENTI TIPO SHELL

19.1. LEGENDA RISULTATI ELEMENTI TIPO SHELL

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo shell, è possibile in relazione alle tabelle sottoriportate.

Per ogni elemento, e per ogni combinazione(o caso di carico) vengono riportati i risultati più significativi.

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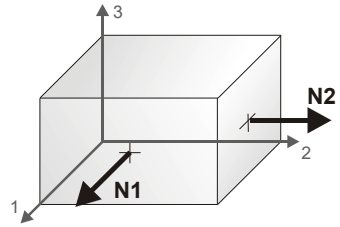
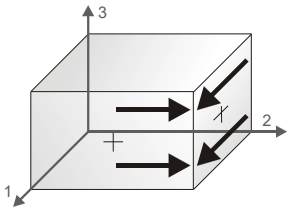
<td> 

Azione N</td>
<td> 

Azione N 1-2</td>
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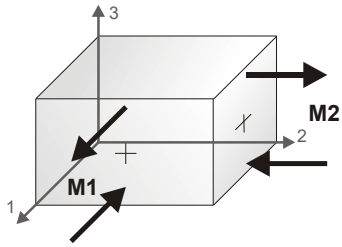
<td> 

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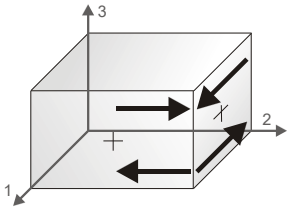
<td> 

Azione M 1-2</td>
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 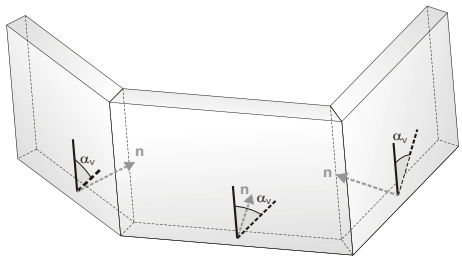 </td>
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 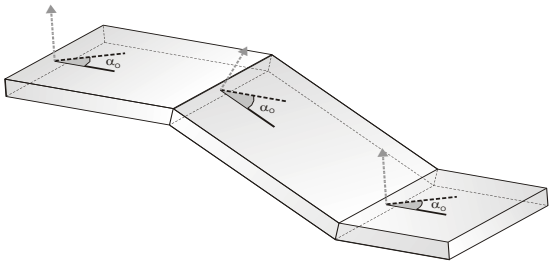 </td>
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</table>

In particolare vengono riportati in ogni nodo di un elemento per ogni combinazione:

tensione di Von Mises		(valore riassuntivo del complessivo stato di sollecitazione)
N max		sforzo membranale principale massimo
N min		sforzo membranale principale minimo
M max		sforzo flessionale principale massimo
M min		sforzo flessionale principale minimo
N1 **N1-2** **M2**	**N2** **M1** **M1-2**	sforzi membranali e flessionali in direzione locale 1 e 2 dell'elemento (lo sforzo 2-1 è uguale allo sforzo 1-2 per la reciprocità delle tensioni tangenziali)

I suddetti risultati possono a scelta del progettista essere preceduti o sostituiti da valori di sollecitazione non più riferiti al sistema locale dell'elemento ma al sistema globale.

In questo caso gli elementi vengono raggruppati in gruppi (M_S: macro gusci o macro setti, raggruppati per materiale, spessore, e posizione fisica) per la valutazione dei valori mediati ai nodi appartenenti agli elementi dei gruppi stessi.

I valori di sollecitazione sono, in questo caso, riferiti ad una terna specifica del gruppo ruotata di α_O attorno all'asse Z per i gusci e ruotata di α_V attorno alla normale (che per definizione è orizzontale) al piano del setto.

Per i setti, in particolare, se α_V è zero, l'asse '1-1 rappresenta la verticale e l'asse '2-2 l'orizzontale contenuta nel setto.

Le azioni sui setti possono essere espresse anche con formato macro, cioè riferite all'intero macroelemento.

In particolare vengono riportati per ogni quota Z dei nodi e per ogni combinazione i seguenti valori:

N memb.	Azione membranale complessiva agente sulla parete in direzione Z
V memb.	Azione complessiva di taglio agente nel piano del macroelemento
V orto	Azione complessiva di taglio agente in direzione perpendicolare al macroelemento
M memb.	Azione flessionale complessiva agente nel piano del macroelemento
M orto	Azione flessionale complessiva agente in direzione perpendicolare al macroelemento
T	Azione torsionale complessiva agente nel piano orizzontale

Macro	Tipo	Angolo 1-X (gradi)
1	**Guscio**	**0.0**

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	2	1	3.41	-4.14	2.87	-3.61	-1.94	-645.60	-1927.79	-1387.95	-1185.45	633.05
1	2	3	1.96	-2.12	1.82	-1.98	0.75	-614.72	-1895.45	-1375.39	-1134.78	-628.97
1	2	9	-0.15	-14.72	-3.20	-11.67	-5.93	-1769.81	-3306.16	-3302.62	-1773.35	73.64
1	2	11	9.19	-11.69	-3.78	1.29	-10.13	-2312.29	-4998.60	-4990.49	-2320.40	147.39
1	2	12	10.04	-11.55	7.86	-9.36	-6.51	-2495.52	-4593.35	-4593.09	-2495.78	-23.51
1	2	13	13.23	-9.04	11.51	-7.32	5.94	-2423.00	-4697.34	-4675.38	-2444.96	-222.41
1	2	15	12.88	-9.24	11.36	-7.71	5.61	-2406.00	-4541.51	-4540.76	-2406.75	40.00
1	2	17	5.33	-7.27	-2.70	0.76	6.06	-1675.53	-3257.02	-3256.22	-1676.34	-35.66
1	2	21	0.52	-23.28	-4.29	-18.47	9.56	-2413.04	-5054.05	-5037.14	-2429.95	-210.61
1	2	22	8.79e-02	-27.43	-4.84	-22.51	10.55	-3169.76	-6768.63	-6762.55	-3175.84	-147.81
1	2	23	10.11	-11.84	7.69	-9.42	-6.88	-2506.70	-4755.39	-4727.84	-2534.24	247.34
1	2	24	3.87	0.79	1.37	3.29	1.20	1510.45	420.24	423.62	1507.08	60.55
1	2	25	1.28	-1.55	0.78	-1.06	1.08	-534.13	-1085.59	-881.06	-738.66	-266.37
1	2	27	0.35	-0.89	0.29	-0.83	-0.26	-514.32	-1055.95	-863.92	-706.35	259.10
1	2	29	11.09	-11.10	5.22	-5.22	-9.79	1008.57	-419.02	539.61	49.93	670.49
1	2	30	10.90	-4.57	-2.69	9.01	-5.06	1398.10	-432.55	412.68	552.87	912.64
1	2	31	19.54	-15.52	18.74	-14.73	-5.21	927.66	-706.01	-432.00	653.65	610.38
1	2	32	8.95	2.02	3.38	7.59	2.75	1662.26	34.20	507.19	1189.27	739.14

1	2	33	10.92	7.06	8.48	9.50	1.86	1629.89	-185.92	131.18	1312.79	689.38
1	2	34	7.73	0.34	1.18	6.89	2.34	1728.37	266.45	506.60	1488.23	541.66
1	2	35	8.72	0.35	0.48	8.59	1.03	1835.22	-24.59	190.28	1620.35	594.52
1	2	36	6.44	-9.70e-04	0.39	6.05	1.54	1757.30	368.11	482.40	1643.01	381.72
1	2	37	6.98	-9.72e-02	-4.88e-02	6.93	0.58	1892.63	91.09	202.15	1781.58	433.29
1	2	38	5.52	0.16	0.32	5.36	0.90	1755.19	412.26	454.24	1713.21	233.69
1	2	39	6.11	-2.98e-02	-3.84e-03	6.08	0.40	1890.83	155.23	197.74	1848.32	268.27
1	2	40	5.05	0.32	0.35	5.02	0.37	1745.78	428.75	435.49	1739.04	93.96
1	2	41	5.68	2.98e-02	3.66e-02	5.68	0.19	1877.13	185.19	192.12	1870.20	108.04
1	2	42	4.99	0.34	0.35	4.99	-0.12	1743.40	431.48	432.82	1742.05	-41.99
1	2	43	5.60	3.64e-02	3.65e-02	5.60	-2.56e-02	1873.99	189.96	191.40	1872.55	-49.26
1	2	44	5.36	0.23	0.32	5.27	-0.65	1750.52	422.83	447.58	1725.78	-179.57
1	2	45	5.87	-1.27e-02	-4.17e-03	5.86	-0.22	1885.14	171.01	196.73	1859.42	-208.39
1	2	46	6.20	9.82e-02	0.39	5.91	-1.29	1757.63	394.54	476.24	1675.93	-323.56
1	2	47	6.59	-8.29e-02	-5.94e-02	6.57	-0.40	1896.28	122.90	205.19	1813.99	-373.04
1	2	48	7.55	0.40	1.17	6.78	-2.22	1745.12	325.62	510.07	1560.68	-477.28
1	2	49	8.17	0.28	0.36	8.09	-0.79	1871.77	34.08	209.39	1696.46	-539.84
1	2	50	9.55	1.66	3.60	7.61	-3.40	1705.80	163.40	532.56	1336.64	-658.12
1	2	51	10.75	6.34	7.43	9.65	-1.90	1753.57	-82.10	202.91	1468.56	-664.79
1	2	52	8.26	-4.69	0.99	2.59	6.43	1485.64	-266.11	421.96	797.58	-855.50
1	2	53	18.54	-5.97	17.08	-4.51	5.81	1285.44	-404.95	-72.75	953.25	-671.71
1	2	54	9.89	-11.21	-2.43	1.11	10.40	983.15	-443.56	495.47	44.12	-676.72
1	2	55	1.89	-6.87	-6.70	1.72	-1.20	1484.35	-148.84	1082.24	253.26	703.58
1	2	56	2.33	1.37	1.96	1.74	0.46	1563.47	118.88	1060.96	621.39	688.04
1	2	57	6.22	8.56e-03	1.96	4.26	2.88	1603.13	385.72	902.91	1085.94	601.79
1	2	58	5.83	-3.47e-02	1.55	4.24	2.61	1616.62	544.83	799.52	1361.93	456.19
1	2	59	5.08	0.19	1.10	4.17	1.90	1629.05	602.90	714.87	1517.08	319.93
1	2	60	4.41	0.55	0.93	4.02	1.15	1631.94	614.09	652.70	1593.33	194.45
1	2	61	3.99	0.83	0.90	3.92	0.46	1630.03	611.32	617.34	1624.01	78.07
1	2	62	3.95	0.89	0.90	3.93	-0.21	1629.13	610.73	611.88	1627.99	-34.06
1	2	63	4.29	0.69	0.93	4.05	-0.90	1630.48	614.93	636.91	1608.50	-147.79
1	2	64	4.94	0.40	1.12	4.22	-1.66	1629.92	613.55	690.19	1553.28	-268.37
1	2	65	5.67	0.26	1.66	4.28	-2.37	1621.54	580.30	766.34	1435.50	-398.88
1	2	66	5.32	0.82	2.20	3.93	-2.08	1605.72	462.42	855.82	1212.32	-543.15
1	2	67	6.35	0.25	1.35	5.24	-2.35	1592.64	228.91	995.98	825.57	-676.52
1	2	68	2.09	-4.72	-4.58	1.95	0.98	1497.55	-136.37	1095.05	266.12	-704.02
1	2	69	-0.11	-3.85	-3.85	-0.12	-0.12	1730.25	134.80	1537.65	327.40	519.80
1	2	70	0.66	-1.49	-1.48	0.65	0.16	1622.17	401.25	1396.99	626.43	473.52
1	2	71	2.29	-0.31	1.20	0.78	1.28	1515.78	673.59	1188.55	1000.82	410.50
1	2	72	3.56	-0.13	1.75	1.68	1.85	1479.25	799.17	1016.85	1261.57	317.26
1	2	73	3.58	0.35	1.66	2.27	1.59	1496.74	803.22	884.05	1415.90	222.54
1	2	74	3.21	0.92	1.57	2.56	1.03	1522.19	766.52	791.35	1497.35	134.73
1	2	75	2.82	1.40	1.53	2.69	0.41	1536.33	736.67	740.34	1532.66	54.05
1	2	76	2.77	1.49	1.53	2.73	-0.22	1538.25	731.40	732.06	1537.59	-23.10
1	2	77	3.14	1.11	1.58	2.67	-0.85	1528.50	753.06	766.63	1514.94	-101.67
1	2	78	3.56	0.61	1.71	2.46	-1.42	1506.44	790.71	842.96	1454.19	-186.18
1	2	79	3.65	0.20	1.88	1.97	-1.72	1481.38	810.10	959.14	1332.33	-278.99
1	2	80	2.93	-1.08e-02	1.54	1.38	-1.47	1491.45	739.34	1114.99	1115.80	-376.05
1	2	81	1.20	-0.56	-0.33	0.98	-0.59	1570.50	517.39	1308.74	779.14	-455.13
1	2	82	0.13	-3.64	-3.64	0.13	0.10	1729.07	133.25	1535.13	327.19	-521.42
1	2	83	-0.23	-4.28	-4.26	-0.25	-0.32	1776.22	307.64	1737.93	345.93	234.02
1	2	84	-0.28	-2.20	-2.20	-0.28	-8.97e-02	1622.89	575.77	1578.43	620.24	211.15
1	2	85	0.66	-0.47	0.31	-0.13	0.52	1415.62	885.32	1341.51	959.43	183.87
1	2	86	2.08	-0.15	1.52	0.40	0.96	1313.98	1022.54	1135.95	1200.58	142.09
1	2	87	2.55	0.38	1.93	1.00	0.97	1376.59	950.32	974.18	1352.73	97.98
1	2	88	2.48	0.99	2.04	1.44	0.68	1443.76	855.65	861.45	1437.96	58.12
1	2	89	2.19	1.54	2.05	1.68	0.27	1477.70	798.92	799.70	1476.92	23.09
1	2	90	2.14	1.65	2.05	1.73	-0.18	1482.69	789.34	789.47	1482.56	-9.56
1	2	91	2.47	1.17	2.06	1.58	-0.61	1460.15	827.75	830.73	1457.17	-43.28
1	2	92	2.63	0.63	2.03	1.24	-0.92	1405.51	909.40	923.09	1391.82	-81.27
1	2	93	2.36	0.13	1.77	0.72	-0.98	1327.38	1006.13	1065.39	1268.12	-124.60
1	2	94	1.30	-0.22	0.90	0.19	-0.67	1352.91	964.74	1254.25	1063.40	-169.00
1	2	95	-0.15	-1.05	-1.03	-0.16	-9.63e-02	1534.04	706.87	1480.36	760.55	-203.77
1	2	96	-0.18	-4.21	-4.18	-0.21	0.35	1774.74	303.61	1736.03	342.32	-235.48
1	2	97	-0.24	-4.38	-4.37	-0.26	-0.23	1777.58	345.90	1774.33	349.15	-68.17
1	2	98	-0.41	-2.56	-2.54	-0.42	-0.17	1614.01	613.97	1610.36	617.62	-60.26
1	2	99	-0.12	-0.41	-0.14	-0.39	7.30e-02	1372.49	938.21	1365.32	945.39	-55.36
1	2	100	1.37	-0.12	1.31	-5.80e-02	0.30	1217.24	1112.43	1149.11	1180.56	-49.99
1	2	101	2.09	0.35	2.02	0.43	0.35	1338.95	972.43	977.09	1334.29	-41.06
1	2	102	2.33	0.82	2.29	0.86	0.25	1424.82	855.89	857.26	1423.45	-27.87
1	2	103	2.37	1.13	2.36	1.14	7.88e-02	1465.47	791.68	791.88	1465.27	-11.78
1	2	104	2.38	1.18	2.37	1.19	-0.12	1471.41	780.92	780.96	1471.37	5.45
1	2	105	2.38	0.96	2.32	1.02	-0.29	1444.61	823.64	824.43	1443.82	22.13
1	2	106	2.23	0.57	2.14	0.66	-0.39	1377.32	919.56	922.48	1374.40	36.43
1	2	107	1.70	0.13	1.62	0.21	-0.35	1259.21	1062.37	1074.14	1247.44	46.67
1	2	108	0.52	-0.21	0.50	-0.19	-0.12	1285.64	1033.94	1274.07	1045.51	52.70

1	2	109	-0.34	-1.49	-1.46	-0.37	0.17	1513.92	749.55	1509.61	753.87	57.30
1	2	110	-0.23	-4.31	-4.28	-0.25	0.31	1776.11	342.09	1772.97	345.23	67.04
1	2	111	-0.20	-4.25	-4.24	-0.20	-0.15	1764.30	250.28	1666.52	348.06	-372.14
1	2	112	-0.30	-2.57	-2.55	-0.32	-0.22	1615.58	507.57	1504.70	618.45	-332.51
1	2	113	1.14e-02	-0.52	-0.25	-0.26	-0.27	1443.30	774.56	1263.78	954.09	-296.35
1	2	114	1.29	-1.75e-02	1.24	3.15e-02	-0.25	1382.32	871.56	1053.45	1200.42	-244.58
1	2	115	2.06	0.44	2.03	0.47	-0.23	1424.64	827.76	889.24	1363.16	-181.42
1	2	116	2.36	0.88	2.34	0.91	-0.19	1475.88	758.75	777.33	1457.30	-113.93
1	2	117	2.44	1.17	2.43	1.18	-0.12	1503.79	714.52	717.27	1501.04	-46.48
1	2	118	2.43	1.24	2.43	1.24	-3.92e-02	1507.88	706.71	707.22	1507.37	20.26
1	2	119	2.36	1.05	2.36	1.05	4.06e-02	1488.84	736.57	746.85	1478.56	87.35
1	2	120	2.13	0.69	2.12	0.70	0.11	1444.90	798.15	837.73	1405.32	155.02
1	2	121	1.54	0.25	1.51	0.29	0.20	1389.58	862.52	981.41	1270.69	220.29
1	2	122	0.50	-0.23	0.32	-5.23e-02	0.31	1399.21	833.59	1174.82	1057.98	276.71
1	2	123	-0.12	-1.67	-1.56	-0.23	0.39	1536.56	625.73	1405.70	756.59	319.48
1	2	124	-0.17	-4.13	-4.11	-0.19	0.28	1762.72	246.51	1665.51	343.71	371.40
1	2	125	-3.87e-02	-3.90	-3.88	-5.84e-02	-0.27	1720.06	15.98	1396.15	339.89	-668.62
1	2	126	0.12	-2.38	-2.29	3.43e-02	-0.45	1607.58	256.33	1245.28	618.63	-598.58
1	2	127	0.76	-0.62	-0.11	0.26	-0.66	1534.69	473.88	1024.42	984.16	-530.02
1	2	128	1.85	8.43e-02	1.32	0.61	-0.81	1527.46	575.79	841.70	1261.55	-427.02
1	2	129	2.49	0.62	2.00	1.10	-0.82	1552.14	597.79	709.75	1440.18	-307.11
1	2	130	2.61	1.18	2.21	1.57	-0.64	1575.31	588.77	626.00	1538.08	-187.99
1	2	131	2.42	1.68	2.23	1.86	-0.32	1586.89	577.28	582.99	1581.18	-75.69
1	2	132	2.23	1.90	2.22	1.91	5.02e-02	1588.31	574.72	575.77	1587.26	32.54
1	2	133	2.41	1.49	2.20	1.70	0.39	1580.19	582.70	603.57	1559.32	142.76
1	2	134	2.40	0.95	2.03	1.32	0.63	1560.33	594.35	670.00	1484.68	259.53
1	2	135	1.97	0.38	1.47	0.88	0.73	1532.32	589.18	782.21	1339.30	380.51
1	2	136	1.18	-0.35	0.31	0.53	0.76	1521.04	525.33	945.78	1100.59	491.80
1	2	137	0.52	-1.72	-1.44	0.24	0.74	1567.10	352.20	1153.98	765.33	575.53
1	2	138	3.76e-02	-3.75	-3.69	-2.21e-02	0.47	1718.47	11.81	1395.53	334.75	668.47
1	2	139	0.57	-3.46	-3.21	0.32	-0.97	1591.63	-378.11	905.08	308.44	-938.60
1	2	140	1.37	-2.29	-1.98	1.06	-1.01	1545.01	-153.72	784.30	606.99	-844.72
1	2	141	2.04	-0.56	0.16	1.32	-1.16	1596.66	58.47	616.22	1038.91	-739.49
1	2	142	3.12	0.16	1.55	1.73	-1.48	1654.44	219.64	503.58	1370.50	-571.64
1	2	143	3.67	0.61	1.91	2.37	-1.51	1688.43	320.76	445.25	1563.94	-393.40
1	2	144	3.61	1.13	1.85	2.89	-1.12	1700.10	375.65	418.17	1657.57	-233.49
1	2	145	3.32	1.58	1.75	3.15	-0.51	1701.01	400.02	406.66	1694.37	-92.65
1	2	146	3.19	1.71	1.73	3.17	0.16	1700.50	403.36	404.55	1699.30	39.32
1	2	147	3.35	1.41	1.80	2.96	0.78	1700.26	387.12	411.00	1676.38	175.45
1	2	148	3.45	0.92	1.84	2.52	1.21	1693.36	344.79	429.83	1608.32	327.79
1	2	149	3.11	0.41	1.52	2.00	1.33	1667.65	263.07	473.31	1457.40	501.10
1	2	150	2.43	-0.42	0.36	1.65	1.27	1615.92	127.29	563.69	1179.52	677.64
1	2	151	1.87	-1.92	-1.33	1.28	1.37	1555.76	-69.23	712.98	773.55	811.93
1	2	152	0.79	-3.33	-2.95	0.41	1.19	1591.01	-382.16	905.13	303.72	939.64
1	2	153	2.75	-4.68	-2.77	0.84	-3.25	1267.92	-993.97	75.88	198.07	-1129.30
1	2	154	4.61	-2.57	-2.25	4.28	-1.50	1372.47	-770.34	35.84	566.29	-1038.06
1	2	155	3.80	-0.21	0.57	3.02	-1.59	1619.57	-485.17	-4.35	1138.76	-883.63
1	2	156	5.33	0.23	1.96	3.60	-2.41	1765.82	-181.21	45.89	1538.72	-624.98
1	2	157	5.75	0.33	1.59	4.49	-2.29	1819.52	30.29	126.27	1723.54	-403.15
1	2	158	5.38	0.63	1.18	4.84	-1.52	1828.92	154.42	186.91	1796.43	-230.96
1	2	159	5.01	0.89	0.99	4.91	-0.63	1824.50	214.22	219.30	1819.42	-90.31
1	2	160	4.90	0.96	0.98	4.89	0.25	1822.96	223.37	224.26	1822.08	37.69
1	2	161	5.10	0.81	1.13	4.78	1.12	1827.15	183.89	201.93	1809.11	171.24
1	2	162	5.36	0.56	1.46	4.46	1.88	1825.80	85.83	150.58	1761.04	329.36
1	2	163	5.01	0.44	1.75	3.69	2.07	1792.90	-92.05	72.99	1627.87	532.77
1	2	164	4.34	-0.35	0.43	3.56	1.75	1684.88	-363.81	4.72	1316.35	786.89
1	2	165	4.51	-2.60	-1.83	3.74	2.20	1463.92	-674.39	10.80	778.73	997.83
1	2	166	2.77	-3.75	-2.01	1.02	2.88	1276.22	-991.81	78.76	205.65	1132.24
1	2	167	-0.63	-14.73	-12.00	-3.37	-5.57	391.07	-1981.72	-1419.09	-171.56	-1009.18
1	2	168	11.81	1.31	1.37	11.75	-0.79	976.46	-1560.97	-1008.07	423.55	-1047.50
1	2	169	6.73	0.52	0.90	6.35	-1.48	1654.12	-1135.10	-866.58	1385.60	-822.72
1	2	170	9.85	-0.19	1.83	7.83	-4.02	1860.19	-545.57	-438.93	1753.55	-495.15
1	2	171	8.57	-0.23	0.66	7.68	-2.66	1926.04	-213.88	-170.45	1882.62	-301.73
1	2	172	7.45	-7.61e-02	0.24	7.13	-1.50	1935.89	-28.35	-13.81	1921.35	-168.39
1	2	173	6.81	6.73e-02	0.12	6.76	-0.57	1929.21	60.45	62.73	1926.93	-65.21
1	2	174	6.69	0.11	0.12	6.68	0.26	1927.15	74.52	74.91	1926.77	26.68
1	2	175	7.10	2.82e-02	0.22	6.90	1.15	1933.34	17.17	25.10	1925.40	123.04
1	2	176	7.97	-9.43e-02	0.58	7.30	2.23	1934.11	-126.49	-97.93	1905.55	240.90
1	2	177	8.93	-4.30e-02	1.56	7.33	3.43	1898.42	-397.39	-323.54	1824.57	405.09
1	2	178	5.36	1.13	1.27	5.21	0.77	1747.50	-895.97	-713.78	1565.31	669.64
1	2	179	5.84	1.01	2.30	4.55	2.13	1346.26	292.93	352.83	1286.36	243.93
1	2	180	28.09	-5.61	25.22	-2.74	9.41	-1711.66	-3431.68	-3410.64	-1732.71	-189.11
1	2	181	16.07	-15.44	8.89	-8.26	13.22	1026.32	-2934.62	-2611.80	703.50	-1083.73
1	2	182	20.27	-8.56	2.27	9.44	-13.96	1675.89	-1496.92	-1430.82	1609.80	-453.14
1	2	183	14.40	-2.28	-1.35	13.47	-3.82	1906.36	-731.43	-719.12	1894.05	-179.80
1	2	184	10.87	-0.90	-0.68	10.64	-1.62	1981.44	-334.38	-329.80	1976.87	-102.85

1	2	185	8.88	-0.61	-0.55	8.83	-0.73	1992.86	-119.88	-118.35	1991.33	-56.88
1	2	186	7.98	-0.50	-0.50	7.97	-0.25	1985.92	-18.19	-17.95	1985.67	-22.08
1	2	187	7.86	-0.48	-0.48	7.85	0.13	1983.67	-1.73	-1.69	1983.63	8.85
1	2	188	8.49	-0.55	-0.52	8.45	0.57	1990.04	-66.20	-65.37	1989.22	41.14
1	2	189	10.11	-0.80	-0.63	9.94	1.35	1990.15	-228.77	-225.83	1987.21	80.76
1	2	190	13.17	-1.91	-1.20	12.46	3.21	1948.25	-539.63	-531.49	1940.11	142.07
1	2	191	18.39	-6.91	1.02	10.47	11.74	1798.23	-1124.83	-1080.82	1754.22	355.96
1	2	192	16.54	-10.60	15.90	-9.97	-4.10	1456.90	-2225.99	-2085.12	1316.04	706.37
1	2	193	23.75	-10.02	13.44	0.29	-15.55	-1468.69	-3541.91	-3493.80	-1516.80	312.15
1	2	194	95.81	-24.11	95.80	-24.09	1.15	1233.71	-2519.73	-2514.31	1228.30	142.49
1	2	195	39.50	0.62	0.96	39.16	-3.61	1956.04	-1349.94	-1349.63	1955.72	-32.34
1	2	196	14.97	1.75	1.75	14.97	-0.18	1914.35	-685.22	-685.22	1914.34	-3.68
1	2	197	10.82	-0.48	-0.48	10.81	-0.20	1983.89	-331.16	-331.14	1983.87	-7.22
1	2	198	8.99	-0.67	-0.66	8.99	-0.15	1997.36	-123.55	-123.54	1997.34	-5.70
1	2	199	8.11	-0.59	-0.59	8.11	-6.50e-02	1991.04	-23.07	-23.06	1991.04	-2.56
1	2	200	7.99	-0.57	-0.57	7.99	2.72e-02	1988.83	-6.65	-6.65	1988.83	0.94
1	2	201	8.61	-0.62	-0.62	8.61	0.12	1994.74	-70.01	-70.00	1994.73	4.17
1	2	202	10.13	-0.50	-0.49	10.13	0.21	1993.37	-226.58	-226.56	1993.36	6.12
1	2	203	13.66	1.23	1.24	13.65	0.32	1956.94	-503.62	-503.61	1956.94	4.72
1	2	204	33.17	1.07	1.49	32.74	3.66	2010.02	-1034.55	-1034.23	2009.70	31.40
1	2	205	71.29	10.16	71.25	10.21	1.68	1574.20	-1442.85	-1441.84	1573.19	-55.13
1	2	206	9.57	-13.26	-4.92	1.24	-10.99	-3021.01	-6707.33	-6705.71	-3022.63	77.26
1	2	207	35.15	-14.67	35.07	-14.59	1.99	-1184.96	-2634.10	-2585.18	-1233.88	261.73
1	2	208	14.90	-9.68	6.67	-1.45	-11.60	910.44	-2636.65	-2247.73	521.52	1108.27
1	2	209	20.70	-5.50	2.18	13.01	11.93	1688.52	-1391.07	-1300.48	1597.94	520.36
1	2	210	14.73	-1.79	-1.28	14.22	2.87	1900.87	-687.89	-668.21	1881.19	224.82
1	2	211	11.03	-0.86	-0.72	10.89	1.28	1976.77	-315.39	-308.25	1969.63	127.70
1	2	212	8.98	-0.64	-0.60	8.95	0.60	1989.66	-110.36	-108.11	1987.41	68.69
1	2	213	8.05	-0.54	-0.53	8.05	0.21	1983.64	-12.49	-12.15	1983.30	26.07
1	2	214	7.93	-0.52	-0.52	7.93	-0.11	1981.54	3.45	3.51	1981.48	-10.62
1	2	215	8.59	-0.59	-0.56	8.56	-0.48	1987.22	-58.41	-57.20	1986.02	-49.60
1	2	216	10.27	-0.78	-0.67	10.17	-1.08	1986.00	-213.58	-209.04	1981.45	-99.88
1	2	217	13.54	-1.55	-1.11	13.10	-2.54	1943.46	-505.25	-492.20	1930.41	-178.31
1	2	218	20.10	-5.52	0.71	13.88	-10.99	1807.37	-1044.21	-983.53	1746.68	-411.55
1	2	219	17.10	-7.33	15.35	-5.57	6.31	1404.26	-2068.44	-1857.97	1193.79	-828.62
1	2	220	23.11	-5.41	22.33	-4.63	4.65	-946.45	-2726.36	-2653.01	-1019.80	-353.79
1	2	221	-5.05	-14.05	-13.69	-5.41	1.75	496.05	-1760.37	-1156.18	-108.14	999.13
1	2	222	7.40	3.49	3.85	7.04	-1.13	1040.30	-1297.55	-773.92	516.68	974.66
1	2	223	9.58	0.42	2.55	7.45	3.87	1661.10	-948.82	-666.10	1378.38	811.15
1	2	224	10.63	-0.35	1.83	8.46	4.37	1844.34	-451.11	-338.21	1731.44	496.41
1	2	225	8.90	-0.31	0.57	8.02	2.71	1912.91	-164.69	-119.22	1867.45	303.95
1	2	226	7.63	-0.13	0.17	7.33	1.48	1927.20	-2.48	12.47	1912.25	169.17
1	2	227	6.94	1.20e-02	5.60e-02	6.90	0.55	1923.50	75.45	77.76	1921.19	65.29
1	2	228	6.83	4.11e-02	5.23e-02	6.82	-0.28	1921.93	87.91	88.30	1921.54	-26.69
1	2	229	7.29	-4.78e-02	0.14	7.10	-1.16	1925.98	37.82	45.93	1917.88	-123.42
1	2	230	8.31	-0.19	0.47	7.64	-2.28	1922.71	-87.64	-57.97	1893.04	-242.41
1	2	231	9.66	-0.22	1.47	7.97	-3.72	1883.37	-322.84	-245.10	1805.63	-406.79
1	2	232	7.21	1.16	2.26	6.11	-2.33	1747.75	-754.76	-560.42	1553.40	-669.76
1	2	233	13.07	-2.42	-0.80	11.45	-4.75	1334.96	-1228.02	-750.39	857.33	-998.00
1	2	234	-4.42	-9.07	-4.63	-8.86	0.97	537.65	-1695.09	-1086.17	-71.27	-994.37
1	2	235	1.20	-4.47	-3.59	0.31	2.06	1295.62	-816.86	246.88	231.88	1056.21
1	2	236	3.02	-1.95	-1.93	3.01	0.31	1378.28	-589.18	184.81	604.29	961.11
1	2	237	3.64	0.28	1.59	2.33	1.64	1601.96	-336.79	112.93	1152.24	818.32
1	2	238	5.81	0.17	2.41	3.57	2.76	1741.74	-84.40	125.03	1532.31	581.88
1	2	239	6.00	0.30	1.68	4.62	2.44	1802.34	83.08	170.15	1715.27	376.98
1	2	240	5.53	0.61	1.18	4.97	1.57	1820.48	178.48	207.44	1791.52	216.15
1	2	241	5.12	0.86	0.96	5.03	0.63	1821.80	223.43	227.91	1817.31	84.52
1	2	242	5.03	0.91	0.93	5.01	-0.29	1821.22	230.24	231.02	1820.45	-35.07
1	2	243	5.28	0.75	1.09	4.94	-1.20	1821.39	200.68	216.63	1805.45	-159.96
1	2	244	5.64	0.50	1.50	4.63	-2.04	1812.23	125.67	183.91	1754.00	-307.94
1	2	245	5.43	0.39	2.07	3.76	-2.37	1771.31	-14.76	136.56	1619.98	-497.37
1	2	246	4.30	7.71e-02	1.28	3.09	-1.90	1662.40	-237.64	106.31	1318.45	-731.58
1	2	247	3.11	-1.59	-1.13	2.66	-1.39	1456.53	-503.65	147.75	805.13	-923.33
1	2	248	1.13	-3.68	-2.96	0.42	-1.71	1298.79	-812.87	249.05	236.87	-1055.81
1	2	249	0.16	-3.77	-3.74	0.13	0.33	1556.23	-241.79	986.39	328.04	836.58
1	2	250	0.63	-2.05	-2.02	0.59	0.29	1502.01	-16.50	853.35	632.16	751.15
1	2	251	1.53	-0.11	0.58	0.83	0.81	1546.28	178.24	666.99	1057.53	655.55
1	2	252	3.16	0.23	1.91	1.48	1.45	1615.43	297.94	534.20	1379.17	505.42
1	2	253	3.77	0.63	2.08	2.31	1.57	1668.58	356.15	455.42	1569.30	347.04
1	2	254	3.66	1.15	1.91	2.91	1.15	1696.97	379.36	412.24	1664.10	205.51
1	2	255	3.35	1.60	1.76	3.19	0.50	1707.70	386.51	391.56	1702.65	81.50
1	2	256	3.24	1.70	1.73	3.22	-0.20	1708.78	387.06	387.95	1707.88	-34.31
1	2	257	3.46	1.37	1.82	3.01	-0.86	1701.76	382.33	400.57	1683.52	-154.06
1	2	258	3.58	0.89	1.94	2.53	-1.31	1680.54	365.92	432.83	1613.64	-288.93
1	2	259	3.17	0.46	1.79	1.85	-1.36	1635.84	323.03	495.31	1463.56	-443.26
1	2	260	2.06	-3.14e-02	0.76	1.27	-1.01	1567.99	230.87	606.51	1192.35	-600.98

1	2	261	1.07	-1.42	-1.19	0.84	-0.72	1506.85	63.85	774.88	795.82	-721.42
1	2	262	0.32	-3.57	-3.49	0.24	-0.55	1554.20	-245.99	986.06	322.15	-836.65
1	2	263	-0.12	-4.11	-4.10	-0.13	-0.15	1636.05	117.56	1400.22	353.39	549.99
1	2	264	-0.13	-2.35	-2.35	-0.13	-5.84e-02	1517.42	362.67	1241.51	638.57	492.42
1	2	265	0.29	-0.23	2.41e-02	2.72e-02	0.26	1442.08	572.68	1008.93	1005.83	434.70
1	2	266	1.78	0.14	1.49	0.42	0.62	1467.14	628.79	814.31	1281.62	348.01
1	2	267	2.52	0.59	2.13	0.99	0.78	1531.94	598.98	670.63	1460.29	248.42
1	2	268	2.64	1.14	2.29	1.50	0.64	1582.67	554.59	577.30	1559.96	151.10
1	2	269	2.43	1.66	2.28	1.80	0.30	1608.13	525.19	528.61	1604.72	60.70
1	2	270	2.29	1.83	2.26	1.85	-0.11	1611.62	519.82	520.43	1611.01	-25.82
1	2	271	2.49	1.40	2.23	1.66	-0.46	1594.15	539.57	552.12	1581.60	-114.34
1	2	272	2.44	0.89	2.08	1.25	-0.66	1552.17	579.33	626.74	1504.76	-209.45
1	2	273	1.90	0.42	1.56	0.76	-0.62	1488.11	620.16	750.09	1358.18	-309.66
1	2	274	0.79	-2.99e-02	0.40	0.36	-0.41	1437.63	608.44	925.75	1120.32	-403.02
1	2	275	0.11	-1.47	-1.45	8.83e-02	-0.20	1472.03	459.08	1145.65	785.46	-473.37
1	2	276	-7.49e-02	-3.89	-3.89	-7.50e-02	-2.26e-02	1634.29	112.61	1399.46	347.44	-549.72
1	2	277	-0.19	-4.20	-4.19	-0.20	-0.22	1637.12	312.38	1591.28	358.21	242.12
1	2	278	-0.31	-2.57	-2.55	-0.33	-0.23	1480.08	579.56	1424.30	635.34	217.07
1	2	279	-0.17	-0.41	-0.28	-0.29	-0.12	1293.78	859.94	1176.02	977.70	192.93
1	2	280	1.24	-4.29e-02	1.23	-4.09e-02	4.97e-02	1302.16	886.65	959.15	1229.66	157.69
1	2	281	2.08	0.34	2.06	0.36	0.17	1418.99	768.23	789.50	1397.72	115.69
1	2	282	2.44	0.75	2.42	0.76	0.18	1502.52	667.51	673.78	1496.25	72.07
1	2	283	2.52	1.03	2.52	1.03	9.22e-02	1543.48	610.77	611.70	1542.56	29.36
1	2	284	2.50	1.09	2.50	1.09	-2.75e-02	1549.30	601.17	601.34	1549.14	-12.55
1	2	285	2.40	0.92	2.39	0.93	-0.12	1521.63	638.91	642.34	1518.20	-54.94
1	2	286	2.10	0.60	2.08	0.62	-0.15	1454.29	722.90	736.41	1440.77	-98.48
1	2	287	1.41	0.25	1.40	0.26	-8.16e-02	1344.42	841.39	885.07	1300.75	-141.64
1	2	288	0.20	-4.07e-02	0.19	-3.46e-02	3.76e-02	1263.46	903.72	1084.74	1082.44	-179.87
1	2	289	-0.18	-1.64	-1.63	-0.19	0.13	1393.12	704.58	1322.59	775.12	-208.78
1	2	290	-0.17	-4.02	-4.02	-0.18	0.15	1635.94	307.55	1590.41	353.08	-241.67
1	2	291	-0.18	-4.07	-4.06	-0.19	-0.21	1609.69	351.81	1605.86	355.64	-69.32
1	2	292	-0.25	-2.55	-2.50	-0.30	-0.33	1444.38	625.82	1439.77	630.42	-61.21
1	2	293	0.12	-0.72	-0.35	-0.26	-0.42	1204.64	957.27	1192.64	969.27	-53.16
1	2	294	1.25	-0.17	1.12	-3.89e-02	-0.41	1224.48	969.74	976.41	1217.80	-40.69
1	2	295	2.04	0.24	1.98	0.30	-0.34	1384.45	805.63	806.86	1383.21	-26.68
1	2	296	2.40	0.63	2.37	0.66	-0.23	1480.32	690.64	690.91	1480.05	-14.59
1	2	297	2.50	0.89	2.50	0.89	-9.77e-02	1525.54	628.55	628.58	1525.51	-5.37
1	2	298	2.49	0.95	2.49	0.95	3.40e-02	1531.95	618.20	618.20	1531.94	2.31
1	2	299	2.37	0.79	2.35	0.81	0.16	1501.67	659.32	659.45	1501.53	10.72
1	2	300	2.06	0.49	2.01	0.54	0.27	1426.18	753.14	753.84	1425.48	21.69
1	2	301	1.42	0.12	1.31	0.23	0.36	1291.06	899.33	902.53	1287.86	35.28
1	2	302	0.47	-0.37	0.11	-1.93e-02	0.41	1138.21	1036.39	1101.71	1072.89	48.82
1	2	303	-7.33e-02	-1.72	-1.63	-0.17	0.38	1344.61	763.22	1338.58	769.25	58.88
1	2	304	-0.15	-3.92	-3.91	-0.17	0.23	1608.94	346.92	1605.05	350.81	69.95
1	2	305	-5.59e-02	-3.74	-3.71	-8.44e-02	-0.32	1565.30	232.06	1450.85	346.51	-373.49
1	2	306	9.44e-02	-2.37	-2.25	-2.82e-02	-0.54	1432.08	487.05	1294.31	624.82	-333.50
1	2	307	0.74	-0.83	-0.23	0.15	-0.76	1318.06	727.30	1064.24	981.12	-292.44
1	2	308	1.72	-0.16	1.14	0.41	-0.87	1355.04	761.60	870.46	1246.18	-229.67
1	2	309	2.31	0.34	1.87	0.78	-0.82	1451.78	691.02	725.94	1416.87	-159.19
1	2	310	2.45	0.86	2.17	1.13	-0.60	1521.57	621.03	630.94	1511.66	-93.93
1	2	311	2.33	1.28	2.26	1.36	-0.27	1555.46	579.54	580.94	1554.07	-36.91
1	2	312	2.25	1.39	2.24	1.40	9.32e-02	1560.18	572.35	572.60	1559.93	15.78
1	2	313	2.32	1.09	2.14	1.26	0.43	1537.29	600.07	605.41	1531.95	70.56
1	2	314	2.24	0.63	1.87	0.99	0.68	1481.01	659.79	681.84	1458.97	132.73
1	2	315	1.81	0.12	1.25	0.68	0.79	1389.69	736.30	806.47	1319.52	202.30
1	2	316	1.09	-0.54	0.14	0.41	0.81	1312.20	761.62	981.74	1092.09	269.71
1	2	317	0.44	-1.74	-1.46	0.16	0.72	1370.47	598.05	1199.61	768.90	320.59
1	2	318	-2.24e-04	-3.60	-3.55	-5.00e-02	0.42	1564.93	226.91	1450.28	341.55	374.50
1	2	319	0.44	-3.30	-3.08	0.22	-0.88	1467.71	-53.02	1094.53	320.16	-654.40
1	2	320	1.17	-2.26	-1.92	0.83	-1.03	1401.36	174.54	963.09	612.81	-587.87
1	2	321	1.84	-0.79	-1.59e-02	1.06	-1.20	1421.52	373.90	777.51	1017.91	-509.84
1	2	322	2.72	-8.86e-02	1.25	1.37	-1.40	1495.24	466.95	641.93	1320.25	-386.42
1	2	323	3.12	0.42	1.71	1.83	-1.35	1564.14	490.71	557.52	1497.33	-259.34
1	2	324	2.98	1.01	1.80	2.19	-0.97	1605.47	487.64	508.25	1584.87	-150.36
1	2	325	2.59	1.57	1.80	2.36	-0.42	1623.21	480.41	483.44	1620.18	-58.75
1	2	326	2.42	1.75	1.79	2.38	0.16	1625.35	478.66	479.20	1624.81	24.92
1	2	327	2.75	1.27	1.76	2.26	0.70	1613.54	483.71	494.99	1602.26	112.31
1	2	328	2.93	0.70	1.66	1.98	1.11	1581.55	489.39	533.19	1537.75	214.28
1	2	329	2.71	0.16	1.24	1.62	1.26	1521.64	479.24	601.98	1398.89	335.98
1	2	330	2.16	-0.61	0.18	1.37	1.25	1443.46	419.68	716.80	1146.34	464.65
1	2	331	1.61	-1.89	-1.31	1.03	1.30	1395.69	261.36	885.12	771.94	564.33
1	2	332	0.60	-3.18	-2.88	0.30	1.02	1468.34	-57.91	1094.44	315.99	656.40
1	2	333	2.27	-4.08	-2.52	0.71	-2.73	1220.17	-533.56	452.06	234.55	-870.10
1	2	334	4.05	-2.44	-2.02	3.63	-1.59	1290.04	-319.41	386.42	584.21	-798.62
1	2	335	3.42	-0.52	0.27	2.63	-1.58	1481.57	-77.58	306.20	1097.79	-671.63
1	2	336	4.47	1.31e-02	1.47	3.02	-2.09	1615.97	136.69	303.33	1449.33	-467.69

1	2	337	4.67	0.28	1.37	3.59	-1.89	1680.97	265.80	331.07	1615.70	-296.83
1	2	338	4.26	0.72	1.21	3.76	-1.23	1704.95	331.82	352.61	1684.17	-167.66
1	2	339	3.86	1.06	1.16	3.77	-0.50	1710.24	360.10	363.23	1707.11	-64.90
1	2	340	3.77	1.13	1.15	3.75	0.21	1710.26	364.12	364.67	1709.71	27.24
1	2	341	4.02	0.89	1.18	3.72	0.92	1707.42	345.85	357.25	1696.02	124.06
1	2	342	4.35	0.50	1.29	3.56	1.55	1692.56	295.82	338.87	1649.51	241.42
1	2	343	4.20	0.22	1.33	3.10	1.78	1645.82	192.32	310.04	1528.10	396.54
1	2	344	3.85	-0.57	0.19	3.09	1.67	1538.94	11.20	296.13	1254.01	595.07
1	2	345	4.02	-2.43	-1.67	3.26	2.08	1358.42	-232.21	346.31	779.90	765.19
1	2	346	2.34	-3.35	-1.93	0.92	2.46	1228.09	-532.95	454.18	240.96	874.04
1	2	347	0.51	-11.80	-9.79	-1.51	-4.55	509.19	-1285.05	-728.17	-47.69	-830.10
1	2	348	10.30	0.80	1.03	10.07	-1.46	1002.36	-952.83	-434.67	484.20	-862.91
1	2	349	6.07	-6.01e-02	0.28	5.73	-1.41	1535.82	-598.68	-365.02	1302.16	-666.45
1	2	350	7.99	-0.25	1.23	6.51	-3.16	1713.12	-157.66	-67.24	1622.70	-401.21
1	2	351	6.84	-8.12e-02	0.60	6.16	-2.06	1778.66	75.26	111.12	1742.81	-244.53
1	2	352	5.85	0.21	0.46	5.61	-1.15	1794.62	198.03	209.77	1782.88	-136.39
1	2	353	5.29	0.43	0.46	5.26	-0.43	1793.12	254.05	255.86	1791.32	-52.66
1	2	354	5.20	0.46	0.47	5.19	0.20	1791.89	262.75	263.07	1791.57	21.95
1	2	355	5.57	0.32	0.47	5.42	0.87	1793.98	227.05	233.49	1787.55	100.20
1	2	356	6.35	6.45e-02	0.57	5.85	1.71	1787.93	133.90	157.43	1764.40	195.86
1	2	357	7.23	-8.14e-02	1.08	6.07	2.67	1748.07	-52.13	10.12	1685.82	328.92
1	2	358	4.90	0.55	0.70	4.74	0.81	1613.99	-416.01	-258.73	1456.72	542.71
1	2	359	13.48	-4.26	-2.96	12.18	4.62	1283.32	-876.44	-430.28	837.16	874.38
1	2	360	-0.39	-4.82	-2.53	-2.67	2.21	553.72	-1232.07	-664.65	-13.70	831.46
1	2	361	23.45	-4.77	18.87	-0.19	10.41	-1248.61	-2375.50	-2342.53	-1281.59	-189.92
1	2	362	12.47	-12.24	5.30	-5.07	11.21	1075.11	-2029.71	-1710.08	755.47	-943.53
1	2	363	15.75	-6.55	1.02	8.18	-10.56	1562.10	-881.36	-810.99	1491.72	-408.66
1	2	364	11.47	-1.82	-1.23	10.88	-2.74	1761.03	-301.13	-284.27	1744.17	-185.71
1	2	365	8.62	-0.55	-0.42	8.49	-1.09	1834.52	-16.50	-9.46	1827.48	-113.97
1	2	366	7.00	-0.15	-0.12	6.97	-0.47	1850.99	130.27	132.79	1848.46	-65.87
1	2	367	6.25	2.68e-02	3.10e-02	6.25	-0.16	1848.51	197.38	197.79	1848.10	-25.98
1	2	368	6.16	4.94e-02	5.03e-02	6.16	7.10e-02	1846.96	208.09	208.17	1846.89	11.11
1	2	369	6.68	-8.38e-02	-6.49e-02	6.66	0.36	1849.73	166.05	167.49	1848.30	49.18
1	2	370	8.01	-0.42	-0.33	7.91	0.89	1843.94	56.70	61.50	1839.13	92.55
1	2	371	10.48	-1.50	-1.05	10.03	2.27	1799.25	-161.99	-150.10	1787.36	152.24
1	2	372	14.28	-5.38	1.93e-02	8.89	8.77	1665.75	-598.59	-549.84	1617.00	328.64
1	2	373	12.08	-8.55	11.40	-7.87	-3.69	1382.34	-1453.93	-1306.62	1235.03	629.38
1	2	374	20.47	-10.43	8.75	1.29	-14.99	-1053.80	-2480.74	-2415.79	-1118.75	297.42
1	2	375	74.78	-17.61	74.71	-17.54	2.52	1175.00	-1666.59	-1665.37	1173.78	58.92
1	2	376	31.01	9.44e-02	0.24	30.87	-2.10	1764.65	-752.95	-749.83	1761.54	-88.49
1	2	377	11.99	1.20	1.20	11.99	0.18	1767.38	-260.91	-259.18	1765.64	-59.31
1	2	378	8.62	-0.23	-0.23	8.62	4.60e-02	1840.72	-12.43	-11.13	1839.42	-49.04
1	2	379	7.11	-0.17	-0.17	7.11	-1.62e-03	1860.76	127.40	128.01	1860.15	-32.56
1	2	380	6.38	-9.08e-03	-9.07e-03	6.38	-9.30e-03	1859.68	192.80	192.91	1859.57	-13.58
1	2	381	6.29	1.26e-02	1.26e-02	6.29	-1.09e-02	1858.30	203.35	203.37	1858.27	6.17
1	2	382	6.80	-0.11	-0.11	6.80	-1.19e-02	1860.10	162.62	163.00	1859.72	25.50
1	2	383	8.06	-0.19	-0.19	8.06	-2.79e-02	1851.64	59.05	60.08	1850.61	42.88
1	2	384	10.90	0.87	0.87	10.90	-4.02e-02	1807.93	-131.57	-129.97	1806.33	55.71
1	2	385	25.87	0.76	0.95	25.68	2.20	1819.56	-518.72	-515.66	1816.50	84.44
1	2	386	54.05	10.77	54.05	10.77	0.42	1442.52	-823.15	-822.94	1442.32	21.56
1	2	387	25.21	-9.83	25.14	-9.76	1.58	-876.86	-1700.81	-1687.53	-890.13	103.75
1	2	388	10.96	-8.12	3.00	-0.16	-9.40	875.42	-1712.84	-1432.26	594.84	804.66
1	2	389	16.34	-4.66	1.29	10.39	9.46	1536.73	-757.54	-712.10	1491.29	319.67
1	2	390	11.85	-1.58	-1.07	11.34	2.56	1753.56	-252.38	-247.30	1748.48	100.79
1	2	391	8.84	-0.52	-0.35	8.67	1.24	1840.23	3.26	4.19	1839.30	41.34
1	2	392	7.15	-0.11	-5.70e-02	7.10	0.61	1865.02	136.88	137.02	1864.88	15.40
1	2	393	6.39	8.54e-02	9.23e-02	6.38	0.21	1866.80	198.17	198.18	1866.79	4.46
1	2	394	6.29	0.11	0.11	6.29	-0.13	1865.91	207.99	207.99	1865.91	-0.99
1	2	395	6.84	-4.62e-02	-9.83e-03	6.80	-0.50	1865.80	169.73	169.77	1865.76	-8.62
1	2	396	8.23	-0.40	-0.27	8.10	-1.06	1853.31	70.50	70.90	1852.90	-26.77
1	2	397	10.88	-1.32	-0.88	10.44	-2.27	1797.78	-125.37	-122.82	1795.23	-70.05
1	2	398	15.87	-4.66	0.11	11.11	-8.66	1647.12	-502.80	-476.24	1620.56	-237.48
1	2	399	11.66	-5.32	10.29	-3.94	4.63	1285.72	-1277.92	-1140.85	1148.66	-576.71
1	2	400	16.33	-3.57	15.58	-2.82	3.78	-687.49	-1768.41	-1736.92	-718.99	-181.80
1	2	401	-2.24	-12.09	-11.35	-2.98	2.60	460.34	-944.24	-499.65	15.75	653.30
1	2	402	6.18	2.09	2.09	6.18	9.14e-02	922.40	-598.75	-245.19	568.84	642.50
1	2	403	8.10	-0.39	1.46	6.25	3.51	1478.83	-366.66	-210.93	1323.10	512.97
1	2	404	8.79	-0.50	1.45	6.85	3.78	1694.49	-42.95	3.28	1648.27	279.60
1	2	405	7.33	-6.97e-02	0.79	6.47	2.37	1797.51	125.67	139.61	1783.57	152.02
1	2	406	6.24	0.35	0.65	5.94	1.30	1838.11	213.20	216.76	1834.56	75.97
1	2	407	5.66	0.61	0.65	5.61	0.47	1849.25	252.62	253.10	1848.77	27.52
1	2	408	5.57	0.64	0.65	5.56	-0.26	1849.98	258.67	258.74	1849.91	-10.34
1	2	409	5.98	0.44	0.65	5.78	-1.04	1843.62	233.60	235.31	1841.91	-52.46
1	2	410	6.86	7.49e-02	0.73	6.21	-2.01	1817.69	167.48	175.47	1809.69	-114.59
1	2	411	8.03	-0.31	1.22	6.49	-3.23	1745.47	32.67	60.76	1717.38	-217.54
1	2	412	6.27	0.31	1.39	5.19	-2.30	1575.74	-241.47	-145.66	1479.93	-406.10

1	2	413	11.13	-2.94	-1.34	9.53	-4.46	1175.57	-553.42	-248.56	870.71	-658.91
1	2	414	-4.20	-5.81	-4.34	-5.67	-0.44	495.48	-898.00	-446.85	44.33	-652.02
1	2	415	1.29	-4.80	-3.85	0.34	2.21	1072.09	-204.25	589.45	278.39	618.93
1	2	416	2.78	-2.44	-2.22	2.57	1.04	1137.88	3.85	498.69	643.04	562.40
1	2	417	3.53	-0.42	1.00	2.11	1.89	1375.73	165.07	382.04	1158.75	464.33
1	2	418	5.17	4.70e-03	2.08	3.09	2.53	1590.09	266.80	340.76	1516.13	303.98
1	2	419	5.25	0.52	1.81	3.96	2.11	1720.15	313.67	336.55	1697.27	177.94
1	2	420	4.83	1.04	1.56	4.31	1.31	1784.51	332.39	338.37	1778.52	93.01
1	2	421	4.49	1.36	1.45	4.41	0.51	1809.47	338.61	339.41	1808.67	34.41
1	2	422	4.43	1.40	1.43	4.41	-0.26	1812.54	339.04	339.16	1812.42	-13.53
1	2	423	4.65	1.16	1.49	4.32	-1.03	1796.76	334.55	337.54	1793.77	-66.06
1	2	424	4.99	0.71	1.67	4.03	-1.78	1749.86	320.47	334.14	1736.19	-139.12
1	2	425	4.89	0.27	1.84	3.31	-2.19	1647.09	284.34	331.87	1599.55	-250.04
1	2	426	4.04	-0.41	0.85	2.78	-2.01	1460.90	206.44	354.65	1312.70	-404.91
1	2	427	3.08	-2.14	-1.45	2.39	-1.77	1211.31	67.36	443.37	835.29	-537.36
1	2	428	1.22	-4.12	-3.33	0.44	-1.89	1074.16	-204.27	589.42	280.47	-620.27
1	2	429	0.21	-4.36	-4.25	9.76e-02	0.71	1262.82	210.08	1116.38	356.52	364.30
1	2	430	0.73	-2.50	-2.30	0.53	0.78	1177.95	463.32	968.30	672.97	325.38
1	2	431	1.78	-0.43	0.46	0.89	1.08	1257.05	606.58	759.52	1104.12	275.84
1	2	432	3.13	0.39	1.94	1.58	1.36	1473.62	559.23	603.78	1429.06	196.87
1	2	433	3.63	1.10	2.29	2.43	1.26	1639.03	491.17	504.22	1625.98	121.69
1	2	434	3.60	1.69	2.22	3.07	0.86	1730.82	442.88	446.18	1727.52	65.13
1	2	435	3.48	2.02	2.11	3.39	0.35	1770.56	417.07	417.50	1770.12	24.18
1	2	436	3.45	2.06	2.08	3.43	-0.17	1776.04	412.23	412.31	1775.96	-9.91
1	2	437	3.51	1.81	2.13	3.19	-0.67	1750.24	428.06	429.74	1748.56	-47.01
1	2	438	3.54	1.29	2.15	2.68	-1.10	1679.96	466.04	473.82	1672.18	-96.86
1	2	439	3.19	0.64	1.82	2.01	-1.27	1542.02	527.01	554.92	1514.11	-165.98
1	2	440	2.25	-0.21	0.63	1.42	-1.16	1332.36	593.79	688.49	1237.66	-246.93
1	2	441	1.26	-1.80	-1.43	0.89	-1.00	1170.34	546.61	878.91	838.04	-311.19
1	2	442	0.35	-4.12	-3.98	0.22	-0.76	1260.61	201.35	1113.33	348.64	-366.50
1	2	443	-4.79e-02	-4.63	-4.62	-5.36e-02	0.16	1322.49	372.78	1319.11	376.16	56.56
1	2	444	0.11	-2.53	-2.50	8.19e-02	0.25	1159.14	679.41	1154.00	684.55	49.38
1	2	445	0.75	3.35e-03	0.27	0.48	0.36	1097.49	905.87	915.07	1088.29	40.98
1	2	446	2.04	0.95	1.88	1.11	0.39	1397.19	719.62	720.84	1395.97	28.75
1	2	447	2.63	1.73	2.46	1.90	0.35	1595.03	583.21	583.49	1594.75	16.69
1	2	448	2.80	2.29	2.52	2.57	0.25	1704.19	498.29	498.34	1704.13	7.87
1	2	449	2.98	2.42	2.45	2.95	0.12	1752.48	455.35	455.36	1752.48	2.34
1	2	450	2.99	2.42	2.43	2.99	-3.34e-02	1759.39	447.72	447.72	1759.39	-1.56
1	2	451	2.82	2.35	2.46	2.71	-0.20	1728.05	474.34	474.36	1728.02	-5.94
1	2	452	2.65	1.90	2.38	2.17	-0.36	1644.01	540.22	540.37	1643.87	-12.77
1	2	453	2.18	1.20	1.84	1.53	-0.47	1480.57	655.09	655.74	1479.92	-23.14
1	2	454	1.27	0.23	0.49	1.01	-0.45	1215.39	825.31	828.65	1212.05	-35.96
1	2	455	0.59	-1.66	-1.63	0.56	-0.27	1062.53	829.36	1052.29	839.59	-47.77
1	2	456	8.10e-02	-4.34	-4.34	8.04e-02	-5.07e-02	1318.09	362.37	1314.32	366.15	-59.94
1	2	457	0.16	-4.58	-4.55	0.13	-0.40	1315.56	296.68	1245.03	367.21	-258.62
1	2	458	0.51	-2.60	-2.58	0.49	-0.25	1191.82	574.54	1085.92	680.45	-232.72
1	2	459	0.99	0.15	0.31	0.83	-0.33	1211.54	742.38	857.11	1096.81	-201.65
1	2	460	2.31	1.11	1.96	1.46	-0.55	1441.39	646.95	676.25	1412.09	-149.72
1	2	461	2.91	1.80	2.46	2.26	-0.55	1619.71	542.68	551.66	1610.73	-97.92
1	2	462	3.09	2.26	2.47	2.88	-0.36	1720.55	472.83	475.32	1718.06	-55.75
1	2	463	3.24	2.38	2.40	3.22	-0.12	1765.36	436.56	436.93	1764.99	-22.13
1	2	464	3.26	2.39	2.40	3.25	0.11	1771.91	429.96	430.00	1771.86	7.73
1	2	465	3.11	2.33	2.47	2.97	0.30	1743.21	452.14	453.36	1742.00	39.65
1	2	466	2.84	2.05	2.46	2.42	0.39	1665.89	506.01	511.47	1660.43	79.37
1	2	467	2.18	1.55	1.97	1.76	0.30	1516.24	595.69	614.44	1497.49	130.04
1	2	468	1.33	0.42	0.44	1.31	0.13	1288.77	707.68	773.76	1222.70	184.47
1	2	469	1.07	-2.00	-1.96	1.02	0.36	1145.56	676.22	986.84	834.94	222.04
1	2	470	0.48	-4.43	-4.32	0.36	0.75	1305.45	287.93	1238.33	355.05	252.56
1	2	471	1.30	-5.13	-4.46	0.63	-1.96	1202.30	-18.53	873.59	310.19	-541.53
1	2	472	2.34	-2.97	-2.95	2.31	-0.35	1199.25	212.86	751.58	660.53	-491.09
1	2	473	2.58	0.14	0.72	2.00	-1.03	1362.37	356.68	581.88	1137.17	-419.24
1	2	474	4.15	0.83	2.15	2.83	-1.63	1558.07	396.21	475.85	1478.43	-293.58
1	2	475	4.38	1.36	2.20	3.55	-1.35	1697.40	388.87	415.34	1670.93	-184.21
1	2	476	4.27	1.76	2.09	3.94	-0.85	1773.42	374.82	382.26	1765.98	-101.69
1	2	477	4.16	1.97	2.01	4.12	-0.30	1805.57	365.40	366.48	1804.48	-39.46
1	2	478	4.15	2.00	2.03	4.13	0.24	1810.22	363.37	363.50	1810.08	13.99
1	2	479	4.22	1.89	2.16	3.95	0.74	1790.39	368.68	372.27	1786.80	71.38
1	2	480	4.22	1.64	2.34	3.52	1.14	1734.21	378.89	394.74	1718.37	145.68
1	2	481	3.73	1.33	2.29	2.77	1.18	1619.85	385.78	438.00	1567.63	248.44
1	2	482	2.58	0.40	0.62	2.36	0.65	1433.29	366.03	522.40	1276.93	377.41
1	2	483	2.48	-2.81	-2.73	2.40	0.64	1224.59	271.27	671.98	823.88	470.57
1	2	484	1.62	-5.18	-4.37	0.81	2.20	1182.97	-18.88	865.64	298.45	529.80
1	2	485	1.42e-02	-13.46	-13.02	-0.43	-2.40	719.55	-590.98	23.59	104.98	-654.00
1	2	486	4.89	-1.02	0.11	3.76	2.32	1044.07	-280.43	147.44	616.20	-619.38
1	2	487	8.56	-0.44	1.36	6.76	-3.60	1479.02	-118.69	104.73	1255.60	-554.12
1	2	488	7.00	0.70	1.66	6.04	-2.27	1672.74	75.82	155.90	1592.66	-348.53

1	2	489	6.27	1.01	1.62	5.66	-1.69	1788.21	182.97	209.82	1761.36	-205.87
1	2	490	5.71	1.22	1.47	5.46	-1.02	1839.61	240.36	247.84	1832.13	-109.12
1	2	491	5.39	1.37	1.40	5.36	-0.36	1857.18	266.41	267.49	1856.10	-41.43
1	2	492	5.37	1.41	1.43	5.35	0.28	1859.36	270.81	270.94	1859.22	14.45
1	2	493	5.64	1.36	1.58	5.42	0.94	1849.54	254.90	258.42	1846.02	74.85
1	2	494	6.11	1.27	1.87	5.51	1.60	1815.69	211.46	226.93	1800.22	156.78
1	2	495	6.48	1.19	2.15	5.52	2.04	1731.86	121.80	171.78	1681.87	279.25
1	2	496	5.65	0.87	1.47	5.06	1.58	1566.78	-61.38	91.07	1414.32	474.32
1	2	497	6.81	-3.25	-3.15	6.71	0.97	1186.77	-246.94	106.60	833.23	617.97
1	2	498	-4.56	-9.03	-7.93	-5.66	1.93	716.79	-584.02	40.79	91.98	649.90
1	2	499	19.67	-22.99	18.96	-22.27	-5.47	68.73	-1072.17	-760.20	-243.25	-508.53
1	2	500	11.66	-8.23	-6.82	10.25	5.12	815.51	-1310.22	-850.84	356.13	-874.92
1	2	501	10.90	-0.41	-7.96e-03	10.49	2.10	1533.67	-687.57	-550.40	1396.50	-534.67
1	2	502	9.04	1.54	1.78	8.80	-1.33	1768.24	-246.44	-211.55	1733.35	-262.81
1	2	503	7.84	0.90	1.12	7.61	-1.22	1861.58	-11.35	-1.30	1851.52	-136.86
1	2	504	6.93	0.77	0.86	6.84	-0.75	1892.71	115.04	117.58	1890.17	-67.18
1	2	505	6.47	0.81	0.82	6.45	-0.27	1898.05	174.19	174.54	1897.71	-24.39
1	2	506	6.45	0.84	0.85	6.45	0.19	1897.97	184.74	184.78	1897.93	8.36
1	2	507	6.90	0.88	0.95	6.83	0.69	1896.15	149.97	151.11	1895.01	44.67
1	2	508	7.85	1.05	1.28	7.61	1.24	1879.89	58.74	64.16	1874.47	99.20
1	2	509	9.24	1.74	2.16	8.82	1.72	1822.04	-119.66	-99.78	1802.16	195.47
1	2	510	10.37	1.79	1.83	10.34	0.52	1666.63	-466.60	-382.32	1582.34	415.57
1	2	511	7.13	-7.24	-0.70	0.59	-7.16	1139.42	-1133.01	-802.51	808.93	801.12
1	2	512	15.45	-13.48	15.35	-13.38	1.62	182.25	-1065.83	-757.01	-126.58	538.58
1	2	513	3.30	1.02	1.54	2.77	0.96	1250.93	510.42	524.57	1236.77	101.39
1	2	514	40.80	-41.84	40.52	-41.56	-4.83	974.51	-2591.15	-2591.15	974.51	-2.05
1	2	515	19.22	7.83	16.77	10.28	-4.68	1715.01	-947.04	-946.15	1714.11	48.85
1	2	516	9.68	3.04	3.08	9.64	-0.49	1812.54	-417.42	-415.43	1810.55	66.54
1	2	517	8.39	0.93	0.93	8.39	-3.06e-02	1886.50	-114.61	-113.17	1885.06	53.71
1	2	518	7.36	0.58	0.58	7.36	4.96e-03	1903.16	51.16	51.85	1902.48	35.52
1	2	519	6.83	0.55	0.55	6.83	-1.80e-02	1900.13	128.94	129.07	1900.00	15.33
1	2	520	6.81	0.59	0.59	6.80	-5.75e-02	1898.53	142.69	142.71	1898.51	-5.52
1	2	521	7.31	0.67	0.67	7.31	-0.11	1902.07	96.81	97.18	1901.70	-25.88
1	2	522	8.40	1.04	1.04	8.39	-0.15	1897.57	-22.07	-21.05	1896.55	-44.33
1	2	523	9.97	3.05	3.05	9.97	8.46e-02	1857.41	-244.73	-243.14	1855.82	-57.78
1	2	524	17.86	10.10	16.33	11.63	3.09	1830.60	-619.74	-618.44	1829.30	-56.36
1	2	525	37.78	-17.89	37.60	-17.70	3.20	1391.53	-1683.09	-1683.04	1391.49	-11.55
1	2	526	3.50	7.95e-02	0.30	3.28	0.83	900.96	594.78	685.96	809.78	140.01
1	2	527	1.25	-2.80	-2.71	1.16	0.61	873.73	258.57	847.35	284.95	124.64
1	2	528	4.48	-4.97	1.67	-2.17	4.32	613.89	37.57	520.22	131.23	-212.62
1	2	529	5.07	-2.31	-1.50	4.26	2.31	855.87	60.27	379.87	536.27	-390.04
1	2	530	5.37	1.12	2.05	4.44	-1.76	1231.78	260.44	354.45	1137.76	-287.19
1	2	531	4.94	0.45	1.06	4.33	-1.54	1487.63	284.77	313.12	1459.27	-182.48
1	2	532	4.27	0.29	0.53	4.03	-0.95	1649.93	257.40	267.16	1640.17	-116.17
1	2	533	3.83	0.30	0.37	3.76	-0.49	1734.48	227.70	230.63	1731.55	-66.42
1	2	534	3.64	0.30	0.31	3.63	-0.17	1769.82	209.34	209.77	1769.40	-25.66
1	2	535	3.63	0.29	0.29	3.63	0.10	1774.49	206.58	206.67	1774.40	11.71
1	2	536	3.81	0.28	0.32	3.76	0.41	1751.69	220.15	221.82	1750.02	50.50
1	2	537	4.24	0.27	0.46	4.05	0.84	1688.75	248.20	254.60	1682.35	95.82
1	2	538	4.97	0.46	1.03	4.41	1.50	1560.72	282.97	301.87	1541.83	154.23
1	2	539	23.99	-18.02	23.99	-18.02	-0.32	-439.81	-1666.05	-1474.76	-631.10	444.94
1	2	540	14.71	-11.38	-6.24	9.57	-10.38	862.97	-1855.32	-1367.67	375.32	1042.96
1	2	541	9.67	-0.39	-0.28	9.55	1.08	1592.67	-953.93	-794.42	1433.16	617.07
1	2	542	9.16	1.16	1.32	9.00	1.10	1788.26	-372.87	-324.42	1739.81	319.92
1	2	543	7.83	0.77	0.89	7.72	0.88	1856.68	-78.47	-59.03	1837.24	192.96
1	2	544	6.86	0.67	0.72	6.81	0.53	1869.77	79.11	85.81	1863.07	109.37
1	2	545	6.35	0.71	0.72	6.35	0.16	1865.27	152.89	154.00	1864.16	43.60
1	2	546	6.31	0.76	0.77	6.30	-0.21	1863.51	165.50	165.65	1863.36	-15.75
1	2	547	6.73	0.80	0.87	6.67	-0.61	1868.05	120.70	124.11	1864.64	-77.12
1	2	548	7.62	0.98	1.16	7.45	-1.07	1866.17	4.34	16.52	1854.00	-150.05
1	2	549	8.88	1.51	1.89	8.50	-1.64	1829.56	-223.99	-191.94	1797.52	-254.52
1	2	550	9.87	5.79e-02	1.04	8.89	-2.94	1699.82	-682.51	-573.44	1590.75	-497.96
1	2	551	10.56	-11.00	1.07	-1.51	10.70	1224.72	-1504.17	-1179.11	899.67	-883.96
1	2	552	16.15	-8.53	15.49	-7.88	3.97	-294.75	-1716.99	-1502.86	-508.89	-508.62
1	2	553	1.18	-14.46	-13.18	-0.10	4.30	714.31	-1154.05	-448.55	8.81	905.75
1	2	554	7.81	0.76	0.89	7.68	-0.96	1111.05	-757.08	-191.20	545.17	858.44
1	2	555	8.94	-0.74	-9.54e-03	8.21	2.55	1571.81	-503.29	-179.10	1247.62	753.41
1	2	556	7.25	0.62	1.36	6.50	2.09	1714.24	-144.98	-6.15	1575.41	488.72
1	2	557	6.30	0.81	1.31	5.80	1.59	1775.80	63.60	120.81	1718.59	307.71
1	2	558	5.59	1.00	1.22	5.38	0.97	1789.72	179.77	198.93	1770.56	174.60
1	2	559	5.16	1.19	1.21	5.13	0.34	1787.40	234.20	237.27	1784.33	69.00
1	2	560	5.09	1.25	1.27	5.07	-0.29	1786.16	242.86	243.29	1785.73	-25.81
1	2	561	5.37	1.19	1.39	5.16	-0.91	1789.02	208.05	217.97	1779.10	-124.84
1	2	562	5.86	1.11	1.64	5.34	-1.49	1784.66	118.10	154.66	1748.09	-244.12
1	2	563	6.18	1.16	1.85	5.49	-1.74	1746.89	-56.10	39.50	1651.29	-404.01
1	2	564	5.58	0.11	0.11	5.58	-0.11	1630.34	-380.07	-147.57	1397.84	-642.94

1	2	565	11.86	-4.95	-4.41	11.32	-2.95	1296.49	-712.29	-208.34	792.54	-870.83
1	2	566	-1.87	-8.24	-5.72	-4.39	-3.11	731.44	-1112.52	-402.71	21.62	-897.23
1	2	567	2.38	-4.66	-3.16	0.88	2.88	1336.23	-460.72	622.28	253.23	879.33
1	2	568	3.87	-2.82	-2.62	3.66	1.15	1364.89	-234.12	536.72	594.05	798.99
1	2	569	3.38	-0.34	0.21	2.84	1.31	1505.47	-15.16	420.47	1069.84	687.51
1	2	570	4.32	0.47	1.66	3.14	1.77	1607.59	169.77	372.42	1404.94	500.30
1	2	571	4.40	0.90	1.82	3.48	1.54	1661.48	277.32	361.26	1577.53	330.38
1	2	572	4.05	1.37	1.83	3.59	1.01	1682.26	332.07	359.90	1654.44	191.82
1	2	573	3.68	1.76	1.84	3.60	0.39	1686.84	355.33	359.71	1682.46	76.20
1	2	574	3.59	1.85	1.89	3.56	-0.24	1686.84	358.28	358.95	1686.17	-29.64
1	2	575	3.81	1.60	1.96	3.45	-0.82	1684.29	342.35	357.12	1669.51	-140.02
1	2	576	3.98	1.24	2.00	3.22	-1.23	1670.80	299.09	354.23	1615.65	-269.45
1	2	577	3.60	0.96	1.72	2.84	-1.19	1629.48	209.41	355.13	1483.76	-430.92
1	2	578	3.37	-0.42	-0.19	3.14	-0.91	1539.59	51.14	385.03	1205.70	-620.88
1	2	579	4.00	-3.26	-2.89	3.62	-1.60	1395.05	-160.34	478.57	756.14	-765.21
1	2	580	2.89	-4.44	-2.73	1.18	-3.10	1321.31	-454.81	617.21	249.29	-868.80
1	2	581	0.42	-3.75	-3.59	0.25	0.82	1521.61	-22.94	1175.31	323.36	644.17
1	2	582	1.06	-2.47	-2.26	0.85	0.84	1440.23	206.04	1037.16	609.11	578.80
1	2	583	1.62	-0.58	-4.01e-02	1.08	0.95	1429.40	403.77	838.68	994.49	506.87
1	2	584	2.55	0.28	1.47	1.36	1.14	1477.76	489.79	685.02	1282.53	393.40
1	2	585	3.04	0.83	2.10	1.77	1.09	1534.36	503.80	581.41	1456.74	271.96
1	2	586	2.98	1.41	2.31	2.08	0.78	1571.56	492.65	517.52	1546.68	161.92
1	2	587	2.65	1.97	2.39	2.23	0.33	1588.33	480.74	484.55	1584.52	64.83
1	2	588	2.49	2.14	2.41	2.22	-0.14	1590.35	477.70	478.31	1589.73	-26.08
1	2	589	2.79	1.65	2.37	2.06	-0.55	1578.72	484.76	498.14	1565.34	-120.22
1	2	590	2.79	1.15	2.16	1.78	-0.80	1548.24	495.82	546.87	1497.20	-226.09
1	2	591	2.31	0.67	1.46	1.52	-0.82	1494.58	493.65	632.49	1355.74	-345.97
1	2	592	1.82	-0.41	-6.11e-02	1.47	-0.82	1433.21	441.68	766.85	1108.05	-465.49
1	2	593	1.69	-2.29	-1.91	1.32	-1.16	1413.15	288.49	950.54	751.10	-553.42
1	2	594	0.86	-3.70	-3.32	0.48	-1.27	1509.43	-26.72	1169.00	313.71	-638.01
1	2	595	-7.32e-02	-4.16	-4.15	-8.67e-02	0.23	1576.60	236.73	1471.49	341.85	360.27
1	2	596	2.10e-02	-2.55	-2.49	-3.87e-02	0.39	1440.69	487.61	1314.86	613.44	322.64
1	2	597	0.54	-0.60	-0.20	0.13	0.55	1312.10	728.31	1083.21	957.20	285.02
1	2	598	1.67	9.13e-02	1.36	0.40	0.62	1328.77	768.01	885.18	1211.60	227.98
1	2	599	2.43	0.55	2.22	0.76	0.60	1415.57	695.90	734.60	1376.87	162.35
1	2	600	2.72	0.98	2.60	1.10	0.44	1481.57	622.46	633.90	1470.12	98.51
1	2	601	2.77	1.27	2.74	1.30	0.20	1514.20	578.43	580.12	1512.52	39.65
1	2	602	2.75	1.32	2.75	1.32	-4.88e-02	1518.71	570.22	570.50	1518.43	-16.44
1	2	603	2.67	1.13	2.63	1.18	-0.27	1496.21	598.56	604.71	1490.07	-74.03
1	2	604	2.37	0.81	2.25	0.93	-0.41	1441.38	660.48	685.10	1416.77	-136.44
1	2	605	1.66	0.45	1.43	0.68	-0.48	1354.85	739.41	815.42	1278.85	-202.48
1	2	606	0.87	-0.31	3.84e-02	0.52	-0.54	1292.02	761.53	995.94	1057.61	-263.45
1	2	607	0.50	-1.94	-1.77	0.32	-0.63	1368.75	593.83	1216.11	746.47	-308.19
1	2	608	8.33e-02	-3.96	-3.90	2.55e-02	-0.48	1568.55	230.51	1465.55	333.51	-356.67
1	2	609	-0.18	-4.40	-4.40	-0.19	0.13	1588.27	343.25	1585.27	346.24	60.95
1	2	610	-0.27	-2.67	-2.65	-0.29	0.18	1426.65	610.25	1423.01	613.89	54.40
1	2	611	-3.94e-02	-0.44	-0.26	-0.22	0.20	1190.52	934.25	1181.02	943.75	48.41
1	2	612	1.37	1.37e-03	1.35	2.07e-02	0.16	1191.65	961.83	968.88	1184.59	39.64
1	2	613	2.29	0.37	2.28	0.38	0.11	1345.59	800.59	802.13	1344.05	28.95
1	2	614	2.72	0.73	2.72	0.73	7.66e-02	1437.44	687.16	687.58	1437.02	17.81
1	2	615	2.88	0.95	2.88	0.95	5.05e-02	1480.65	625.46	625.51	1480.59	7.05
1	2	616	2.88	0.99	2.88	0.99	2.77e-02	1486.75	614.55	614.56	1486.74	-3.36
1	2	617	2.74	0.85	2.74	0.85	-2.25e-03	1457.57	654.34	654.58	1457.33	-13.83
1	2	618	2.33	0.59	2.33	0.59	-5.21e-02	1384.39	746.11	747.06	1383.44	-24.58
1	2	619	1.50	0.32	1.49	0.34	-0.13	1252.65	889.66	893.09	1249.22	-35.11
1	2	620	0.34	-9.89e-02	0.10	0.14	-0.22	1114.62	1013.42	1088.61	1039.42	-44.22
1	2	621	1.97e-02	-1.83	-1.79	-1.72e-02	-0.26	1324.80	739.50	1320.32	743.98	-51.01
1	2	622	-0.10	-4.20	-4.19	-0.11	-0.18	1582.18	335.91	1579.34	338.74	-59.37
1	2	623	-0.15	-4.40	-4.40	-0.15	8.96e-02	1589.13	298.28	1542.67	344.74	-240.45
1	2	624	-0.21	-2.61	-2.61	-0.21	4.37e-02	1439.09	558.42	1382.69	614.82	-215.62
1	2	625	2.74e-04	-0.26	-0.14	-0.11	-0.13	1261.68	834.94	1145.02	951.60	-190.19
1	2	626	1.54	0.10	1.47	0.18	-0.32	1268.03	869.22	939.14	1198.10	-151.65
1	2	627	2.39	0.51	2.31	0.60	-0.40	1378.58	760.11	779.52	1359.17	-107.85
1	2	628	2.72	0.93	2.66	0.99	-0.31	1457.03	665.37	670.85	1451.56	-65.61
1	2	629	2.80	1.21	2.79	1.22	-0.11	1495.17	611.37	612.18	1494.35	-26.78
1	2	630	2.81	1.25	2.80	1.25	0.10	1500.62	601.66	601.78	1500.50	10.27
1	2	631	2.75	1.05	2.70	1.09	0.28	1474.86	636.55	639.37	1472.04	48.53
1	2	632	2.45	0.73	2.38	0.80	0.34	1411.28	714.65	726.59	1399.34	90.40
1	2	633	1.67	0.42	1.61	0.48	0.26	1306.11	823.95	865.53	1264.53	135.34
1	2	634	0.34	0.12	0.21	0.25	0.11	1229.43	874.76	1054.29	1049.90	177.32
1	2	635	0.10	-1.78	-1.78	0.10	5.61e-02	1352.51	675.06	1281.13	746.45	208.00
1	2	636	-4.90e-02	-4.21	-4.21	-4.95e-02	4.43e-02	1582.36	290.39	1536.14	336.61	239.96
1	2	637	8.70e-02	-4.15	-4.14	7.41e-02	-0.23	1563.13	102.36	1332.50	332.99	-532.64
1	2	638	0.35	-2.42	-2.41	0.34	-0.19	1456.77	342.73	1184.91	614.59	-478.49
1	2	639	0.89	-0.20	0.19	0.51	-0.52	1396.06	556.76	970.06	982.76	-419.60
1	2	640	2.33	0.31	1.71	0.92	-0.93	1424.86	624.43	795.48	1253.80	-328.11

1	2	641	2.92	0.81	2.26	1.47	-0.98	1485.94	604.79	669.19	1421.54	-229.35
1	2	642	2.90	1.40	2.42	1.88	-0.70	1531.92	566.75	586.89	1511.78	-137.98
1	2	643	2.60	1.94	2.47	2.08	-0.27	1554.51	540.26	543.35	1551.42	-55.86
1	2	644	2.57	2.02	2.49	2.10	0.19	1557.68	535.04	535.50	1557.21	21.71
1	2	645	2.86	1.56	2.49	1.93	0.59	1542.46	552.12	562.70	1531.88	101.79
1	2	646	2.88	1.07	2.37	1.58	0.82	1504.74	585.49	626.96	1463.27	190.78
1	2	647	2.30	0.68	1.83	1.15	0.73	1444.49	615.21	733.58	1326.12	290.09
1	2	648	1.15	0.14	0.40	0.89	0.44	1391.55	589.43	889.37	1091.61	388.10
1	2	649	0.83	-1.87	-1.81	0.76	0.41	1412.00	431.72	1090.93	752.79	460.05
1	2	650	0.35	-4.06	-3.98	0.28	0.58	1552.52	95.16	1324.64	323.03	529.31
1	2	651	1.07	-4.47	-3.95	0.55	-1.60	1439.84	-256.98	900.32	282.54	-790.18
1	2	652	2.18	-2.52	-2.51	2.17	-0.17	1420.65	-22.34	789.86	608.45	-715.77
1	2	653	2.54	0.16	0.87	1.83	-1.10	1495.16	189.18	635.96	1048.38	-619.58
1	2	654	4.13	0.47	2.02	2.58	-1.81	1565.21	331.64	539.86	1356.99	-462.06
1	2	655	4.22	0.92	2.01	3.13	-1.55	1613.51	396.72	483.26	1526.97	-312.75
1	2	656	3.87	1.42	1.95	3.34	-1.01	1637.70	421.68	450.39	1608.99	-184.61
1	2	657	3.51	1.84	1.93	3.42	-0.38	1646.02	429.26	433.78	1641.50	-74.06
1	2	658	3.46	1.92	1.97	3.41	0.27	1646.86	430.02	430.69	1646.19	28.51
1	2	659	3.77	1.62	2.06	3.33	0.87	1641.89	425.26	440.36	1626.79	134.69
1	2	660	4.05	1.23	2.20	3.08	1.34	1625.03	407.06	463.45	1568.64	255.94
1	2	661	3.78	0.95	2.20	2.52	1.41	1586.06	355.72	504.54	1437.23	401.19
1	2	662	2.62	0.41	0.80	2.23	0.84	1518.06	239.84	581.11	1176.80	565.46
1	2	663	2.37	-2.33	-2.26	2.30	0.58	1427.30	50.22	715.96	761.57	688.16
1	2	664	1.41	-4.51	-3.87	0.77	1.84	1422.77	-257.87	891.22	273.68	781.53
1	2	665	-7.65e-02	-12.55	-12.39	-0.23	-1.38	943.57	-808.22	43.95	91.40	-875.57
1	2	666	4.76	-0.29	1.02	3.45	2.22	1233.65	-473.01	177.04	583.60	-828.76
1	2	667	8.76	-0.22	1.65	6.89	-3.65	1575.83	-238.51	143.91	1193.41	-740.00
1	2	668	7.02	0.61	1.60	6.03	-2.31	1681.57	23.36	198.41	1506.52	-509.54
1	2	669	6.08	0.83	1.46	5.46	-1.70	1736.01	178.46	252.42	1662.06	-331.23
1	2	670	5.37	1.06	1.32	5.10	-1.04	1750.81	264.93	289.93	1725.81	-191.12
1	2	671	4.96	1.26	1.30	4.92	-0.38	1750.54	305.16	309.15	1746.54	-75.87
1	2	672	4.93	1.31	1.33	4.91	0.27	1749.75	312.04	312.62	1749.16	29.08
1	2	673	5.29	1.23	1.46	5.06	0.93	1751.16	287.58	300.69	1738.05	137.88
1	2	674	5.91	1.12	1.73	5.31	1.59	1745.43	222.45	270.07	1697.81	265.07
1	2	675	6.52	1.12	2.09	5.54	2.08	1712.10	94.12	215.58	1590.64	426.35
1	2	676	5.92	1.09	1.71	5.30	1.61	1626.75	-149.37	133.71	1343.67	650.12
1	2	677	7.23	-2.36	-2.21	7.08	1.19	1354.87	-413.53	141.88	799.45	820.80
1	2	678	-4.40	-7.85	-7.43	-4.82	1.12	945.14	-800.92	59.90	84.31	872.94
1	2	679	19.65	-21.98	19.49	-21.82	-2.60	291.52	-1233.86	-712.10	-230.24	-723.63
1	2	680	12.81	-8.64	-6.92	11.09	5.82	993.47	-1442.40	-813.81	364.88	-1065.85
1	2	681	11.26	0.48	0.78	10.96	1.76	1605.43	-739.56	-490.82	1356.70	-722.08
1	2	682	9.00	1.53	1.68	8.84	-1.08	1774.67	-265.62	-172.58	1681.63	-425.64
1	2	683	7.60	0.85	1.02	7.44	-1.04	1836.43	-8.33	30.10	1798.01	-263.46
1	2	684	6.64	0.72	0.80	6.57	-0.66	1849.36	132.22	145.41	1836.17	-149.92
1	2	685	6.16	0.76	0.77	6.14	-0.26	1845.76	198.61	200.73	1843.63	-59.11
1	2	686	6.14	0.80	0.81	6.14	0.14	1844.16	210.45	210.78	1843.83	23.27
1	2	687	6.62	0.84	0.90	6.56	0.57	1847.93	171.28	178.34	1840.88	108.51
1	2	688	7.61	1.03	1.20	7.44	1.03	1845.53	69.51	94.42	1820.62	208.85
1	2	689	9.16	1.79	2.09	8.86	1.44	1812.99	-126.26	-62.97	1749.70	344.57
1	2	690	10.80	2.49	2.54	10.75	0.66	1713.19	-500.80	-328.10	1540.49	593.74
1	2	691	8.69	-8.34	-0.89	1.24	-8.45	1264.74	-1238.36	-760.28	786.67	983.93
1	2	692	14.31	-11.92	14.26	-11.87	-1.17	383.39	-1228.27	-719.40	-125.48	749.12
1	2	693	4.17	-2.01	1.02	1.15	-3.09	982.73	142.87	348.63	776.96	361.21
1	2	694	38.23	-41.22	38.20	-41.19	-1.62	935.12	-2538.95	-2529.12	925.30	-184.47
1	2	695	17.66	8.49	16.59	9.56	-2.94	1702.43	-907.33	-899.62	1694.71	-141.69
1	2	696	9.09	3.19	3.19	9.09	7.23e-03	1812.35	-389.71	-384.45	1807.09	-107.51
1	2	697	8.01	1.04	1.04	8.01	0.18	1894.24	-94.73	-91.51	1891.03	-79.93
1	2	698	7.09	0.66	0.66	7.09	8.21e-02	1916.14	66.30	67.71	1914.72	-51.18
1	2	699	6.61	0.61	0.61	6.61	-1.58e-02	1915.86	141.69	141.94	1915.62	-20.92
1	2	700	6.60	0.64	0.64	6.60	-0.11	1914.71	154.97	155.03	1914.65	10.05
1	2	701	7.07	0.73	0.74	7.06	-0.22	1916.43	110.41	111.34	1915.50	40.96
1	2	702	8.06	1.12	1.14	8.04	-0.37	1907.76	-5.12	-2.47	1905.11	71.13
1	2	703	9.48	3.14	3.16	9.46	-0.37	1860.94	-221.88	-216.99	1856.05	100.76
1	2	704	16.64	10.48	16.14	10.99	1.69	1822.50	-586.34	-579.84	1816.00	124.92
1	2	705	36.23	-18.75	36.23	-18.75	0.22	1368.55	-1647.77	-1636.47	1357.24	184.30
1	2	706	4.66	-5.48	-1.74	0.92	-4.89	601.99	23.70	501.36	124.32	219.24
1	2	707	10.03	-7.36	9.72	-7.04	2.31	686.02	-335.11	-258.28	609.19	-269.36
1	2	708	7.66	3.60	5.21	6.05	-1.99	1292.19	16.88	97.41	1211.66	-310.19
1	2	709	5.49	0.27	0.45	5.31	-0.96	1561.48	73.38	116.47	1518.39	-249.53
1	2	710	4.32	3.40e-02	9.40e-02	4.26	-0.50	1708.33	90.62	108.63	1690.32	-169.76
1	2	711	3.74	5.54e-02	7.66e-02	3.71	-0.28	1777.72	89.46	95.32	1771.87	-99.26
1	2	712	3.47	6.97e-02	7.30e-02	3.47	-0.11	1804.69	85.43	86.29	1803.83	-38.44
1	2	713	3.44	6.70e-02	6.77e-02	3.44	4.58e-02	1808.12	84.80	84.99	1807.93	18.01
1	2	714	3.63	4.88e-02	5.95e-02	3.62	0.20	1791.23	88.58	92.05	1787.76	76.74
1	2	715	4.14	2.48e-02	5.93e-02	4.10	0.38	1741.60	93.43	106.13	1728.91	144.07
1	2	716	5.24	0.25	0.37	5.12	0.76	1631.49	90.33	123.30	1598.51	223.00

1	2	717	7.89	3.55	5.06	6.39	2.06	1434.06	72.93	141.65	1365.34	298.03
1	2	718	10.46	-3.40	10.03	-2.97	-2.41	971.30	-110.41	-20.36	881.25	298.83
1	2	719	21.23	-17.70	21.00	-17.47	2.94	-574.74	-1451.49	-1397.19	-629.04	211.32
1	2	720	12.56	-11.39	-6.69	7.86	-9.51	656.14	-1629.17	-1313.82	340.79	788.18
1	2	721	7.67	-0.42	-0.40	7.66	0.35	1503.59	-839.74	-772.12	1435.98	392.27
1	2	722	8.30	1.37	1.55	8.12	1.10	1780.44	-315.12	-306.28	1771.60	135.80
1	2	723	7.39	0.99	1.11	7.27	0.88	1886.42	-50.14	-48.69	1884.98	52.87
1	2	724	6.64	0.83	0.87	6.60	0.50	1921.45	89.87	90.06	1921.25	18.73
1	2	725	6.25	0.82	0.82	6.24	0.13	1927.89	154.91	154.93	1927.87	5.72
1	2	726	6.22	0.85	0.86	6.21	-0.23	1927.93	165.91	165.91	1927.93	0.41
1	2	727	6.55	0.93	1.00	6.48	-0.63	1925.46	126.21	126.24	1925.43	-7.48
1	2	728	7.24	1.15	1.36	7.04	-1.10	1906.57	22.61	23.07	1906.11	-29.46
1	2	729	8.14	1.64	2.09	7.69	-1.65	1839.19	-183.14	-179.34	1835.38	-87.63
1	2	730	7.87	0.23	1.01	7.09	-2.32	1639.00	-595.09	-556.99	1600.91	-289.23
1	2	731	8.39	-10.17	3.69e-02	-1.81	9.23	1077.72	-1332.29	-1143.60	889.03	-647.41
1	2	732	15.64	-8.89	15.61	-8.86	0.90	-425.03	-1481.12	-1404.21	-501.94	-274.42
1	2	733	2.24	-14.75	-12.62	0.12	5.62	474.19	-814.19	-371.94	31.95	611.72
1	2	734	7.87	-0.61	-0.43	7.69	-1.22	885.57	-477.49	-150.97	559.05	581.76
1	2	735	7.89	-0.75	-0.33	7.48	1.85	1451.49	-326.91	-162.08	1286.65	515.73
1	2	736	6.46	1.03	1.54	5.95	1.59	1701.38	-58.22	-8.40	1651.55	291.89
1	2	737	5.95	1.18	1.53	5.59	1.25	1834.53	93.37	107.88	1820.02	158.32
1	2	738	5.56	1.22	1.35	5.43	0.74	1891.50	176.46	180.06	1887.90	78.49
1	2	739	5.33	1.26	1.27	5.32	0.23	1910.24	215.18	215.67	1909.75	28.95
1	2	740	5.29	1.30	1.31	5.27	-0.26	1912.41	221.09	221.13	1912.37	-8.93
1	2	741	5.39	1.34	1.49	5.25	-0.75	1901.79	195.66	197.21	1900.24	-51.44
1	2	742	5.56	1.42	1.80	5.18	-1.20	1863.97	130.15	137.98	1856.14	-116.26
1	2	743	5.45	1.53	2.00	4.98	-1.28	1766.45	1.49	31.05	1736.89	-226.51
1	2	744	4.94	-0.24	-0.20	4.90	0.47	1554.97	-245.91	-140.54	1449.61	-422.66
1	2	745	10.54	-5.66	-5.35	10.23	-2.20	1090.40	-465.52	-177.50	802.38	-604.30
1	2	746	-0.68	-9.44	-5.43	-4.69	-4.36	482.85	-776.75	-329.30	35.39	-602.82
1	2	747	2.69	-4.76	-3.08	1.01	3.11	1019.31	-118.51	621.19	279.61	542.67
1	2	748	3.91	-2.88	-2.68	3.71	1.16	1080.94	80.55	523.03	638.46	496.86
1	2	749	3.21	-0.10	0.11	2.99	0.82	1340.58	198.17	386.78	1151.96	424.14
1	2	750	3.87	1.20	1.77	3.30	1.10	1593.78	258.67	323.14	1529.31	286.23
1	2	751	4.21	1.55	1.93	3.82	0.94	1755.41	284.47	304.78	1735.10	171.63
1	2	752	4.28	1.68	1.82	4.14	0.59	1837.94	296.73	302.18	1832.49	91.52
1	2	753	4.29	1.72	1.73	4.27	0.20	1871.08	302.00	302.77	1870.30	34.81
1	2	754	4.24	1.74	1.75	4.23	-0.16	1875.54	302.04	302.13	1875.44	-12.39
1	2	755	4.13	1.78	1.89	4.02	-0.48	1854.85	296.72	299.35	1852.22	-63.99
1	2	756	3.86	1.77	2.02	3.61	-0.68	1794.01	284.25	296.36	1781.91	-134.63
1	2	757	3.21	1.57	1.75	3.04	-0.51	1662.99	259.79	301.81	1620.98	-239.15
1	2	758	3.26	-0.34	-0.32	3.23	-0.27	1432.63	213.97	344.44	1302.16	-376.79
1	2	759	3.97	-3.34	-3.06	3.69	-1.39	1141.48	127.10	457.89	810.68	-475.53
1	2	760	3.18	-4.53	-2.59	1.24	-3.34	1001.74	-112.93	617.02	271.79	-529.93
1	2	761	0.54	-3.39	-3.21	0.37	0.81	1152.76	250.32	1051.49	351.59	284.83
1	2	762	1.25	-1.99	-1.87	1.13	0.62	1070.79	504.65	906.28	669.16	257.04
1	2	763	1.70	0.22	0.30	1.62	0.33	1210.90	601.26	699.97	1112.19	224.58
1	2	764	2.26	1.56	1.69	2.13	0.27	1488.21	516.80	546.93	1458.08	168.40
1	2	765	2.86	2.01	2.10	2.77	0.26	1683.21	443.07	453.13	1673.16	111.23
1	2	766	3.30	2.04	2.07	3.27	0.18	1788.32	399.57	402.51	1785.38	63.82
1	2	767	3.53	1.98	1.98	3.53	7.48e-02	1833.00	378.76	379.19	1832.57	25.16
1	2	768	3.53	1.97	1.97	3.53	-1.67e-02	1839.11	374.61	374.68	1839.05	-9.71
1	2	769	3.28	2.03	2.04	3.28	-6.63e-02	1810.22	386.07	387.60	1808.69	-46.67
1	2	770	2.83	2.01	2.01	2.83	-3.73e-02	1730.09	417.41	423.80	1723.70	-91.39
1	2	771	2.37	1.49	1.50	2.37	5.20e-02	1568.49	477.59	497.67	1548.41	-146.65
1	2	772	2.13	0.10	0.10	2.13	-7.37e-02	1309.25	566.63	628.02	1247.86	-204.51
1	2	773	1.92	-1.77	-1.61	1.76	-0.76	1067.05	579.54	816.88	829.72	-243.67
1	2	774	1.03	-3.23	-2.82	0.62	-1.25	1141.56	243.86	1046.11	339.31	-276.73
1	2	775	0.17	-3.35	-3.34	0.16	-0.23	1132.25	356.77	1132.13	356.89	-9.63
1	2	776	0.69	-1.71	-1.69	0.67	-0.24	983.57	671.69	983.28	671.99	-9.61
1	2	777	1.41	0.31	0.51	1.21	-0.43	1106.21	771.16	771.18	1106.20	-2.39
1	2	778	2.37	1.20	1.71	1.86	-0.58	1442.91	609.98	610.16	1442.72	12.43
1	2	779	2.86	1.73	2.04	2.55	-0.51	1653.80	506.65	507.00	1653.45	20.04
1	2	780	3.14	1.92	2.01	3.06	-0.31	1765.06	448.05	448.27	1764.83	17.32
1	2	781	3.32	1.92	1.93	3.31	-9.72e-02	1812.31	420.05	420.09	1812.26	8.10
1	2	782	3.34	1.89	1.90	3.33	0.11	1818.66	414.93	414.94	1818.65	-3.63
1	2	783	3.22	1.84	1.93	3.13	0.34	1787.82	431.55	431.71	1787.66	-14.51
1	2	784	3.02	1.60	1.88	2.74	0.57	1703.12	475.33	475.67	1702.77	-20.54
1	2	785	2.64	1.10	1.49	2.25	0.67	1531.63	558.91	559.20	1531.34	-16.76
1	2	786	1.96	0.29	0.45	1.79	0.50	1241.06	697.72	697.73	1241.05	-2.20
1	2	787	1.23	-1.10	-1.09	1.21	0.18	894.42	832.56	892.22	834.75	11.45
1	2	788	0.32	-2.96	-2.96	0.32	7.21e-03	1128.06	346.41	1127.76	346.72	15.38
1	2	789	0.81	-3.70	-3.15	0.26	-1.47	994.19	191.88	880.06	306.01	-280.25
1	2	790	2.01	-1.86	-1.67	1.82	-0.84	974.76	440.67	766.45	648.99	-260.51
1	2	791	2.62	-7.11e-02	0.80	1.75	-1.26	1205.47	535.05	608.93	1131.59	-209.94
1	2	792	3.73	0.53	1.73	2.53	-1.55	1495.77	500.15	514.80	1481.11	-119.91

1	2	793	3.87	1.04	1.73	3.18	-1.21	1679.00	461.59	464.17	1676.42	-55.95
1	2	794	3.73	1.41	1.65	3.49	-0.70	1773.58	434.71	435.08	1773.21	-22.08
1	2	795	3.63	1.57	1.59	3.61	-0.24	1812.80	420.16	420.19	1812.77	-6.55
1	2	796	3.64	1.55	1.57	3.62	0.20	1817.84	417.32	417.33	1817.84	1.86
1	2	797	3.73	1.38	1.57	3.53	0.64	1792.23	426.09	426.22	1792.10	13.23
1	2	798	3.85	1.04	1.58	3.31	1.10	1721.23	446.81	447.98	1720.06	38.61
1	2	799	3.68	0.65	1.52	2.82	1.37	1574.59	479.47	487.14	1566.92	91.34
1	2	800	3.07	1.23e-02	0.69	2.39	1.27	1320.15	519.97	561.50	1278.62	177.50
1	2	801	2.33	-1.38	-1.02	1.97	1.11	1023.11	502.23	695.60	829.74	251.65
1	2	802	0.79	-3.05	-2.66	0.40	1.16	994.88	185.94	877.82	303.00	284.58
1	2	803	-0.42	-8.29	-7.73	-0.99	-2.03	543.34	-256.40	164.58	122.35	-399.31
1	2	804	4.46	0.92	1.04	4.34	-0.63	867.48	-11.47	275.16	580.86	-412.04
1	2	805	5.72	-0.33	0.92	4.47	-2.44	1330.27	131.16	226.59	1234.85	-324.53
1	2	806	6.06	-1.64e-02	1.23	4.81	-2.45	1586.27	291.91	313.02	1565.16	-163.95
1	2	807	5.15	0.50	1.05	4.60	-1.50	1729.69	358.09	362.70	1725.08	-79.35
1	2	808	4.52	0.89	1.08	4.33	-0.80	1798.98	384.19	385.05	1798.13	-34.79
1	2	809	4.20	1.09	1.12	4.18	-0.26	1825.66	392.94	393.03	1825.57	-11.52
1	2	810	4.17	1.09	1.11	4.16	0.21	1828.69	393.97	393.98	1828.68	3.77
1	2	811	4.43	0.91	1.05	4.28	0.70	1811.34	388.77	389.12	1810.99	22.31
1	2	812	4.96	0.56	1.00	4.52	1.32	1760.97	371.01	373.29	1758.69	56.30
1	2	813	5.66	0.14	1.11	4.69	2.10	1651.31	322.27	333.60	1639.98	122.19
1	2	814	4.61	0.29	0.99	3.91	1.59	1440.79	193.58	246.61	1387.76	251.65
1	2	815	7.83	-2.05	-0.95	6.73	3.11	1063.36	20.85	242.01	842.20	426.21
1	2	816	-2.00	-3.74	-3.33	-2.41	0.73	569.16	-237.32	195.62	136.22	402.14
1	2	817	14.02	-4.70	14.02	-4.69	0.28	-521.88	-782.20	-746.06	-558.03	-90.01
1	2	818	7.06	-5.10	0.82	1.15	6.08	815.99	-887.11	-638.97	567.85	-600.86
1	2	819	10.78	-2.89	0.71	7.19	-6.02	1401.06	-197.62	-158.66	1362.10	-246.53
1	2	820	7.93	-0.71	-0.36	7.57	-1.72	1645.49	127.38	132.53	1640.34	-88.25
1	2	821	6.07	0.18	0.32	5.93	-0.89	1766.29	271.71	272.75	1765.25	-39.40
1	2	822	5.07	0.56	0.60	5.02	-0.46	1818.15	336.97	337.16	1817.96	-16.48
1	2	823	4.64	0.72	0.73	4.63	-0.15	1835.64	363.12	363.14	1835.62	-5.36
1	2	824	4.60	0.73	0.73	4.59	0.13	1837.20	367.04	367.05	1837.20	1.50
1	2	825	4.93	0.58	0.63	4.89	0.42	1825.94	351.46	351.53	1825.87	10.17
1	2	826	5.76	0.26	0.38	5.64	0.80	1789.77	305.93	306.43	1789.27	27.26
1	2	827	7.39	-0.49	-0.18	7.08	1.53	1701.18	201.64	204.37	1698.45	63.92
1	2	828	10.51	-2.80	6.83e-02	7.64	5.47	1516.30	-30.07	-7.71	1493.93	184.62
1	2	829	7.04	-3.05	5.94	-1.95	-3.14	1141.39	-574.36	-451.46	1018.50	442.44
1	2	830	8.91	-1.94	7.56	-0.59	-3.58	-408.28	-846.15	-789.09	-465.34	147.41
1	2	831	45.83	-10.26	45.82	-10.25	-0.84	980.59	-897.23	-893.59	976.94	-82.65
1	2	832	19.75	-6.16e-02	2.61e-02	19.66	1.31	1539.34	-207.00	-206.91	1539.25	12.39
1	2	833	7.96	1.05	1.06	7.95	-0.27	1657.62	110.97	110.97	1657.62	0.42
1	2	834	5.93	0.38	0.39	5.92	-0.23	1770.47	253.43	253.44	1770.46	3.48
1	2	835	5.08	0.50	0.50	5.08	-0.15	1819.32	323.44	323.45	1819.31	3.24
1	2	836	4.70	0.61	0.62	4.70	-4.87e-02	1834.98	352.38	352.38	1834.98	1.39
1	2	837	4.66	0.62	0.62	4.66	6.97e-02	1836.27	356.77	356.77	1836.27	-1.00
1	2	838	4.94	0.53	0.53	4.94	0.17	1826.33	339.52	339.52	1826.32	-2.99
1	2	839	5.65	0.42	0.43	5.64	0.22	1792.84	290.69	290.70	1792.83	-3.50
1	2	840	7.34	0.93	0.94	7.33	0.19	1711.63	187.84	187.84	1711.63	-1.35
1	2	841	16.56	0.57	0.68	16.45	-1.35	1624.53	-51.35	-51.27	1624.45	-11.58
1	2	842	33.11	7.73	33.09	7.76	-0.77	1257.13	-283.94	-283.12	1256.32	35.42
1	2	843	13.72	-2.85	10.51	0.36	-6.55	-867.10	-1269.02	-1261.21	-874.91	55.48
1	2	844	6.79	-7.46	1.66	-2.32	-6.84	863.01	-1096.38	-897.96	664.59	591.10
1	2	845	9.84	-3.76	0.66	5.42	6.37	1394.65	-279.99	-252.48	1367.14	212.88
1	2	846	7.50	-0.68	-0.41	7.24	1.45	1648.65	82.89	86.19	1645.35	71.81
1	2	847	5.90	0.25	0.28	5.87	0.40	1766.66	244.22	245.04	1765.85	35.19
1	2	848	5.05	0.51	0.51	5.05	8.14e-02	1815.69	317.09	317.29	1815.49	17.35
1	2	849	4.69	0.60	0.60	4.69	1.88e-02	1831.53	346.57	346.59	1831.51	6.18
1	2	850	4.65	0.61	0.61	4.65	2.80e-02	1832.91	350.99	351.00	1832.90	-2.80
1	2	851	4.91	0.54	0.54	4.91	-1.72e-02	1822.98	333.20	333.30	1822.87	-12.44
1	2	852	5.60	0.33	0.35	5.58	-0.28	1789.43	281.69	282.14	1788.97	-26.23
1	2	853	6.96	-0.41	-0.23	6.77	-1.16	1703.56	163.78	165.60	1701.74	-52.92
1	2	854	9.04	-2.95	0.18	5.90	-5.27	1512.48	-97.62	-81.57	1496.43	-159.97
1	2	855	6.32	-4.57	5.93	-4.18	2.03	1167.95	-694.90	-616.29	1089.35	-374.50
1	2	856	12.48	-6.69	4.79	1.00	9.40	-743.18	-1338.28	-1309.53	-771.93	-127.60
1	2	857	1.39	-8.51	-6.90	-0.22	3.65	422.01	-415.39	-62.99	69.61	413.42
1	2	858	6.96	-7.36e-02	0.13	6.75	1.18	810.44	-221.43	73.14	515.86	466.03
1	2	859	4.13	0.14	0.24	4.02	0.64	1328.26	-42.09	52.12	1234.05	346.73
1	2	860	5.20	0.66	1.24	4.62	1.52	1592.55	181.32	204.07	1569.80	177.71
1	2	861	4.79	0.74	0.90	4.63	0.79	1728.00	282.44	288.26	1722.17	91.56
1	2	862	4.51	0.71	0.74	4.48	0.34	1789.38	327.80	329.13	1788.04	44.16
1	2	863	4.38	0.68	0.69	4.38	0.12	1811.38	345.69	345.85	1811.22	15.50
1	2	864	4.35	0.68	0.68	4.35	-2.17e-02	1813.87	348.20	348.23	1813.84	-6.43
1	2	865	4.43	0.72	0.74	4.41	-0.21	1800.24	337.10	337.75	1799.58	-30.92
1	2	866	4.61	0.78	0.88	4.51	-0.59	1757.28	304.32	307.55	1754.05	-68.42
1	2	867	4.83	0.80	1.19	4.44	-1.19	1656.22	227.30	240.24	1643.28	-135.36
1	2	868	3.47	0.64	0.66	3.46	-0.19	1442.90	49.91	102.45	1390.36	-265.37

1	2	869	8.81	-2.91	-2.09	7.99	-2.98	1045.43	-184.31	45.41	815.71	-479.30
1	2	870	0.56	-3.94	-2.26	-1.12	-2.17	449.39	-389.55	-24.53	84.37	-415.92
1	2	871	1.49	-3.18	-2.19	0.50	1.90	873.11	77.34	676.85	273.60	343.01
1	2	872	2.81	-1.56	-1.30	2.55	1.03	922.85	271.67	582.08	612.44	325.23
1	2	873	2.35	0.55	0.70	2.19	0.51	1207.27	355.60	451.67	1111.19	269.43
1	2	874	2.95	1.38	1.56	2.77	0.50	1495.73	364.25	389.44	1470.55	166.93
1	2	875	3.52	1.25	1.32	3.46	0.37	1666.72	361.44	367.77	1660.39	90.67
1	2	876	3.82	0.98	1.00	3.81	0.18	1749.96	356.22	357.63	1748.55	44.28
1	2	877	3.94	0.82	0.82	3.94	7.64e-02	1782.61	352.14	352.30	1782.44	15.52
1	2	878	3.94	0.81	0.81	3.94	1.13e-02	1786.85	351.22	351.25	1786.82	-6.52
1	2	879	3.84	0.94	0.95	3.83	-7.39e-02	1766.45	353.66	354.36	1765.75	-31.39
1	2	880	3.55	1.21	1.23	3.53	-0.22	1706.24	357.70	361.28	1702.65	-69.43
1	2	881	3.00	1.39	1.46	2.94	-0.31	1572.93	360.40	375.26	1558.07	-133.41
1	2	882	2.74	0.60	0.71	2.64	-0.47	1326.11	359.54	417.88	1267.77	-230.19
1	2	883	2.83	-1.21	-0.85	2.47	-1.15	1004.64	319.81	522.95	801.49	-312.81
1	2	884	1.55	-2.65	-1.77	0.67	-1.71	874.87	75.10	676.89	273.08	-345.16
1	2	885	0.30	-2.26	-2.23	0.27	0.29	958.89	305.28	941.50	322.68	105.20
1	2	886	1.29	-0.79	-0.76	1.26	0.24	852.92	596.71	812.02	637.61	93.84
1	2	887	1.76	0.98	1.07	1.67	-0.25	1094.92	611.22	625.54	1080.60	81.97
1	2	888	2.63	1.38	1.58	2.42	-0.46	1421.58	487.97	491.69	1417.86	58.81
1	2	889	3.15	1.27	1.33	3.09	-0.33	1619.03	409.26	410.20	1618.08	33.85
1	2	890	3.50	0.99	1.00	3.49	-0.17	1718.86	364.04	364.23	1718.66	16.16
1	2	891	3.67	0.80	0.81	3.67	-4.35e-02	1759.75	341.89	341.91	1759.73	5.38
1	2	892	3.69	0.78	0.78	3.69	8.01e-02	1765.28	338.32	338.32	1765.27	-2.35
1	2	893	3.58	0.92	0.94	3.56	0.22	1739.42	352.59	352.69	1739.32	-11.58
1	2	894	3.30	1.17	1.24	3.23	0.37	1666.04	387.29	387.84	1665.49	-26.54
1	2	895	2.83	1.34	1.49	2.68	0.46	1510.56	450.42	452.68	1508.30	-48.91
1	2	896	2.20	1.04	1.10	2.14	0.25	1231.98	556.57	564.51	1224.05	-72.79
1	2	897	1.68	-0.25	-0.23	1.66	-0.20	866.99	672.38	732.62	806.75	-89.97
1	2	898	0.50	-2.06	-2.02	0.46	-0.31	957.66	298.79	939.90	316.56	-106.73
1	2	899	1.46	-3.96	-3.91	1.42	-0.47	869.20	262.14	842.16	289.18	-125.23
1	2	900	1.64	0.56	0.58	1.61	-0.17	845.26	540.74	760.91	625.09	-136.28
1	2	901	3.78	0.49	1.41	2.87	-1.48	1121.32	554.94	581.77	1094.49	-120.32
1	2	902	3.85	0.70	1.38	3.16	-1.30	1424.51	454.02	459.85	1418.67	-75.00
1	2	903	3.70	0.75	1.03	3.42	-0.87	1614.17	374.38	376.09	1612.46	-46.02
1	2	904	3.63	0.67	0.75	3.56	-0.46	1712.90	322.94	323.44	1712.40	-26.29
1	2	905	3.63	0.59	0.60	3.62	-0.15	1754.31	296.34	296.41	1754.24	-10.33
1	2	906	3.64	0.57	0.58	3.64	0.12	1759.90	292.24	292.26	1759.89	4.53
1	2	907	3.68	0.62	0.68	3.62	0.43	1733.38	310.32	310.59	1733.11	19.61
1	2	908	3.77	0.71	0.95	3.53	0.82	1660.09	352.15	353.19	1659.06	36.78
1	2	909	15.42	-4.87	-3.50	14.06	5.09	1325.29	-1476.99	-980.08	828.38	1070.31
1	2	910	-1.27	-6.77	-2.70	-5.35	2.41	438.35	-1910.58	-1339.39	-132.85	1007.69
1	2	911	4.97	-43.88	-31.98	-6.93	20.97	447.21	-737.73	-705.63	415.11	192.37
1	2	912	27.84	-31.23	27.55	-30.94	4.09	1322.98	-2547.55	-2547.49	1322.93	-14.32
1	2	913	1.09	-13.19	-12.30	0.20	-3.45	1169.68	-3434.17	-3433.04	1168.55	-72.21
1	2	914	6.68	-19.39	-13.36	0.66	-10.99	1138.63	-3292.78	-3290.04	1135.89	-110.16
1	2	915	10.79	-21.41	10.24	-20.86	-4.16	925.13	-1444.08	-1444.07	925.12	4.94
1	2	916	0.62	-21.05	-16.71	-3.72	-8.67	273.21	-348.97	-340.03	264.27	-74.03
1	2	917	10.15	0.49	5.03	5.61	4.82	265.51	-289.41	65.84	-89.74	-266.33
1	2	918	0.81	-8.62	-6.82	-0.99	-3.71	1213.91	-190.78	1125.13	-102.00	-341.80
1	2	919	-1.04	-8.97	-8.97	-1.04	6.28e-02	1672.89	-87.74	1647.02	-61.87	-211.84
1	2	920	-0.27	-8.14	-8.13	-0.27	0.12	1868.17	-55.47	1863.64	-50.95	-93.15
1	2	921	-0.11	-7.48	-7.48	-0.11	3.37e-02	1905.02	-49.20	1904.65	-48.83	27.09
1	2	922	-0.10	-7.07	-7.07	-0.10	-3.18e-02	1807.44	-61.81	1795.64	-50.01	148.05
1	2	923	-0.20	-6.70	-6.70	-0.20	-7.32e-02	1561.04	-97.99	1516.78	-53.73	267.33
1	2	924	-0.62	-5.81	-5.81	-0.62	-2.45e-02	1121.78	-182.44	1000.58	-61.24	378.66
1	2	925	-1.74	-3.38	-2.97	-2.15	0.71	488.57	-465.62	103.28	-80.33	468.18
1	2	926	52.04	-4.59	35.69	11.76	-25.66	-242.03	-4356.52	-4345.46	-253.09	-213.10
1	2	927	5.96	-7.84	-7.02	5.14	-3.26	-136.60	-290.11	-289.89	-136.83	5.86
1	2	928	45.83	-41.33	22.39	-17.89	38.65	-764.60	-4033.25	-3996.11	-801.74	346.44
1	2	929	15.47	-5.05	3.24	7.18	-10.07	253.44	-1380.72	-1116.29	-10.99	-601.84
1	2	930	-1.05	-5.14	-4.98	-1.21	-0.79	586.94	-364.78	294.58	-72.42	-439.06
1	2	931	-0.48	-6.75	-6.75	-0.48	2.95e-02	1182.72	-152.83	1091.41	-61.51	-337.07
1	2	932	-0.18	-6.98	-6.98	-0.18	7.80e-02	1556.77	-85.15	1526.92	-55.30	-219.35
1	2	933	-0.11	-6.82	-6.82	-0.11	4.00e-02	1729.74	-57.34	1724.64	-52.24	-95.34
1	2	934	-0.11	-6.61	-6.61	-0.11	-7.27e-03	1739.07	-51.92	1738.59	-51.44	29.29
1	2	935	-0.18	-6.33	-6.33	-0.18	-4.70e-02	1590.11	-66.92	1576.15	-52.97	151.44
1	2	936	-0.55	-5.64	-5.64	-0.55	-2.67e-02	1253.11	-112.25	1199.09	-58.22	266.16
1	2	937	-1.85	-3.57	-3.40	-2.02	0.51	677.35	-250.77	501.91	-75.33	363.39
1	2	938	9.19	-6.38	4.60	-1.79	7.10	97.61	-1036.15	-822.65	-115.89	443.25
1	2	939	40.19	3.25	27.43	16.01	-17.57	-125.67	-3121.95	-3120.65	-126.97	-62.39
1	2	940	34.18	-26.33	16.13	-8.28	27.69	-543.46	-2827.05	-2803.78	-566.74	229.37
1	2	941	10.48	-4.89	1.29	4.29	-7.54	211.86	-711.49	-457.44	-42.19	-412.36
1	2	942	-1.03	-5.97	-5.89	-1.11	-0.62	745.47	-158.23	659.35	-72.11	-265.35
1	2	943	-0.44	-7.74	-7.74	-0.44	-2.31e-02	1248.50	-81.69	1230.91	-64.09	-151.96
1	2	944	-0.24	-8.16	-8.16	-0.24	1.24e-02	1446.48	-62.13	1446.05	-61.70	-25.49

1	2	945	-0.33	-7.66	-7.65	-0.33	8.34e-02	1370.77	-70.03	1363.37	-62.64	102.95
1	2	946	-6.28e-02	-5.21	-5.05	-0.22	0.89	1005.06	-110.95	957.51	-63.39	225.41
1	2	947	15.27	-0.80	5.18	9.29	7.77	495.71	-339.52	129.14	27.05	414.49
1	2	948	25.47	-43.65	14.72	-32.89	-25.05	-884.39	-1609.86	-1597.14	-897.12	-95.23
1	2	949	-0.59	-5.02	-4.49	-1.12	1.44	918.06	-95.46	913.02	-90.43	71.28
1	2	950	40.66	-29.15	27.70	-16.19	27.15	-629.43	-2540.10	-2530.50	-639.03	135.13
1	2	951	16.60	-1.66	9.40	5.54	-8.93	343.53	-752.17	-384.87	-23.77	-517.24
1	2	952	-0.71	-2.99	-2.56	-1.13	-0.89	827.27	-210.50	681.84	-65.07	-360.24
1	2	953	-0.47	-5.84	-5.84	-0.47	-3.91e-02	1325.00	-103.13	1277.38	-55.51	-256.39
1	2	954	-0.18	-6.81	-6.81	-0.18	3.12e-02	1602.56	-63.16	1590.27	-50.87	-142.56
1	2	955	-0.12	-7.14	-7.14	-0.12	2.38e-04	1709.12	-49.63	1708.80	-49.31	-23.90
1	2	956	-0.15	-7.25	-7.25	-0.15	-3.56e-02	1668.75	-55.34	1663.46	-50.05	95.31
1	2	957	-0.31	-6.93	-6.93	-0.31	1.34e-02	1469.78	-82.81	1440.41	-53.43	211.53
1	2	958	-0.23	-4.99	-4.86	-0.36	0.78	1066.82	-150.18	974.32	-57.68	322.51
1	2	959	15.11	-1.55	4.85	8.71	8.10	582.65	-430.26	130.18	22.21	503.57
1	2	960	26.82	-40.20	16.93	-30.31	-23.77	-841.69	-1548.23	-1548.22	-841.70	-2.27
1	2	961	4.82	1.01	1.32	4.50	-1.05	299.09	-81.54	276.81	-59.26	89.35
1	2	962	36.95	-28.38	24.88	-16.30	25.36	-603.31	-2394.93	-2367.29	-630.95	220.82
1	2	963	15.76	-0.20	10.09	5.47	-7.64	244.20	-560.85	-293.40	-23.25	-379.19
1	2	964	-0.30	-2.43	-1.82	-0.92	-0.96	753.10	-132.58	690.79	-70.27	-226.50
1	2	965	-0.49	-5.50	-5.49	-0.50	-0.12	1170.28	-75.82	1159.90	-65.44	-113.21
1	2	966	-0.43	-6.36	-6.36	-0.43	3.87e-03	1245.53	-64.72	1245.47	-64.67	8.45
1	2	967	-0.91	-5.57	-5.54	-0.94	0.36	980.61	-84.94	965.79	-70.12	124.77
1	2	968	5.20	-4.47	-0.79	1.52	4.69	350.08	-215.63	202.96	-68.52	248.16
1	2	969	20.21	-11.88	9.39	-1.05	-15.17	-303.16	-1543.74	-1533.96	-312.94	-109.68
1	2	970	22.49	4.08	14.52	12.05	9.12	-55.98	-1795.62	-1794.30	-57.29	47.87
1	2	971	4.21	-4.71	1.27	-1.77	-4.20	110.73	-332.40	-112.56	-109.11	-221.56
1	2	972	-1.42	-4.27	-4.22	-1.47	-0.37	772.64	-99.05	747.34	-73.74	-146.35
1	2	973	-0.91	-5.74	-5.74	-0.91	1.98e-02	1042.61	-69.73	1041.03	-68.15	-41.88
1	2	974	12.35	-6.12	6.43	-0.20	8.62	80.08	-1724.49	-1540.61	-103.80	545.91
1	2	975	4.40	-46.66	-35.00	-7.25	-21.43	448.44	-723.20	-694.96	420.20	-179.70
1	2	976	11.38	-24.55	10.63	-23.80	5.14	950.59	-1423.07	-1423.06	950.58	-5.02
1	2	977	7.32	-19.22	-11.92	1.27e-02	11.85	1150.69	-3295.06	-3292.03	1147.65	116.05
1	2	978	28.79	-36.06	28.31	-35.57	-5.57	1353.65	-2509.74	-2509.67	1353.58	16.13
1	2	979	49.74	-38.68	48.94	-37.88	-8.39	1700.17	-3494.82	-3494.63	1699.98	31.19
1	2	980	1.27	-12.81	-11.11	-0.43	4.59	1181.39	-3434.02	-3432.43	1179.80	85.61
1	2	981	0.47	-22.55	-18.23	-3.85	8.99	275.71	-347.60	-339.73	267.84	69.61
1	2	982	8.47	-6.71	-0.36	2.12	-7.48	251.65	-314.31	96.13	-158.79	252.65
1	2	983	1.46	-7.68	-5.90	-0.32	3.62	1229.18	-176.63	1140.71	-88.16	341.37
1	2	984	-0.71	-8.93	-8.93	-0.71	-6.98e-02	1674.67	-85.58	1648.94	-59.85	211.27
1	2	985	-0.21	-8.13	-8.13	-0.22	-0.11	1869.47	-55.39	1864.97	-50.90	92.94
1	2	986	-9.85e-02	-7.55	-7.55	-9.86e-02	-2.68e-02	1905.91	-49.39	1905.52	-49.00	-27.59
1	2	987	-0.10	-7.29	-7.29	-0.10	4.15e-02	1807.93	-62.14	1796.01	-50.22	-148.83
1	2	988	-0.20	-7.16	-7.16	-0.20	8.78e-02	1560.85	-98.55	1516.27	-53.96	-268.31
1	2	989	-0.54	-6.66	-6.66	-0.54	1.90e-02	1119.60	-183.13	997.71	-61.24	-379.39
1	2	990	-1.22	-4.23	-3.99	-1.46	-0.81	479.42	-464.92	91.84	-77.34	-464.54
1	2	991	16.02	-4.68	11.64	-0.29	-8.46	77.66	-1719.56	-1548.78	-93.12	-527.04
1	2	992	55.33	-6.21	33.48	15.63	29.45	-273.89	-4342.78	-4329.69	-286.99	230.45
1	2	993	48.52	-45.08	20.25	-16.82	-42.97	-810.96	-4030.28	-3983.74	-857.50	-384.25
1	2	994	17.82	-2.42	7.95	7.45	10.11	249.62	-1374.26	-1127.46	2.82	582.98
1	2	995	-0.29	-6.45	-6.33	-0.40	0.83	578.64	-362.79	284.60	-68.75	436.30
1	2	996	-0.38	-7.70	-7.70	-0.38	-3.08e-02	1181.28	-153.45	1089.31	-61.48	338.08
1	2	997	-0.17	-7.50	-7.50	-0.17	-9.12e-02	1556.82	-85.68	1526.73	-55.58	220.28
1	2	998	-0.10	-7.14	-7.14	-0.10	-4.52e-02	1730.07	-57.65	1724.91	-52.49	95.88
1	2	999	-0.10	-6.89	-6.89	-0.10	9.80e-03	1739.26	-52.15	1738.79	-51.68	-29.12
1	2	1000	-0.18	-6.71	-6.71	-0.18	5.54e-02	1589.75	-67.19	1575.77	-53.21	-151.56
1	2	1001	-0.49	-6.25	-6.25	-0.49	2.04e-02	1251.05	-112.38	1196.93	-58.27	-266.19
1	2	1002	-1.34	-4.20	-4.07	-1.47	-0.59	668.27	-248.04	493.27	-73.05	-360.17
1	2	1003	12.16	-5.26	8.71	-1.82	-6.94	92.87	-1027.09	-826.93	-107.29	-429.08
1	2	1004	43.00	1.04	25.05	18.99	20.76	-155.09	-3111.08	-3109.14	-157.02	75.58
1	2	1005	36.68	-28.86	14.88	-7.06	-30.88	-576.87	-2821.43	-2791.99	-606.31	-255.36
1	2	1006	12.32	-2.89	5.00	4.44	7.60	203.00	-701.84	-465.97	-32.86	397.23
1	2	1007	-0.44	-7.03	-6.96	-0.51	0.65	738.66	-154.77	653.45	-69.56	262.43
1	2	1008	-0.36	-8.65	-8.65	-0.36	3.01e-02	1249.73	-81.69	1232.27	-64.23	151.46
1	2	1009	-0.22	-9.03	-9.03	-0.22	8.91e-04	1450.88	-62.53	1450.49	-62.15	24.13
1	2	1010	-0.25	-9.00	-9.00	-0.25	-2.85e-02	1377.82	-70.80	1370.04	-63.03	-105.87
1	2	1011	0.24	-7.61	-7.56	0.19	-0.67	1012.66	-111.07	964.04	-62.45	-228.63
1	2	1012	15.66	-1.34	5.63	8.69	-8.36	485.18	-336.66	126.33	22.19	-407.61
1	2	1013	27.27	-43.82	16.05	-32.61	25.92	-888.49	-1638.36	-1624.89	-901.96	99.61
1	2	1014	3.93	-2.15	-1.23	3.00	2.19	305.37	-108.25	287.20	-90.08	-84.75
1	2	1015	41.51	-31.70	26.83	-17.02	-29.31	-655.93	-2553.64	-2541.11	-668.46	-153.71
1	2	1016	17.99	-1.47	11.36	5.16	9.22	334.27	-744.71	-391.04	-19.41	506.48
1	2	1017	-0.40	-5.04	-4.91	-0.52	0.74	830.53	-209.90	683.51	-62.88	362.42
1	2	1018	-0.37	-7.14	-7.14	-0.37	-6.82e-03	1331.99	-104.41	1283.37	-55.79	259.76
1	2	1019	-0.16	-7.49	-7.49	-0.16	-5.36e-02	1609.13	-63.90	1596.55	-51.31	144.55
1	2	1020	-0.10	-7.59	-7.59	-0.10	-3.72e-03	1715.51	-50.04	1715.16	-49.70	24.58

1	2	1021	-0.13	-7.79	-7.79	-0.13	5.10e-02	1675.83	-55.79	1670.50	-50.46	-95.97
1	2	1022	-0.22	-7.95	-7.95	-0.22	3.48e-02	1478.45	-83.50	1448.62	-53.67	-213.76
1	2	1023	0.15	-7.00	-6.95	0.10	-0.58	1075.59	-149.31	982.33	-56.05	-324.85
1	2	1024	15.72	-1.74	5.57	8.41	-8.61	578.68	-421.28	134.40	23.00	-496.87
1	2	1025	27.50	-42.08	16.62	-31.20	25.27	-868.40	-1560.82	-1560.67	-868.55	10.25
1	2	1026	38.97	-28.82	26.13	-15.98	-26.56	-608.63	-2418.78	-2388.53	-638.88	-232.05
1	2	1027	16.91	-0.58	11.52	4.80	8.07	228.85	-560.48	-307.20	-24.43	368.47
1	2	1028	-0.25	-4.76	-4.61	-0.40	0.80	755.13	-132.68	691.39	-68.93	229.20
1	2	1029	-0.41	-7.20	-7.20	-0.41	6.76e-02	1175.52	-76.89	1164.53	-65.90	116.82
1	2	1030	-0.37	-7.50	-7.50	-0.37	-3.23e-02	1248.87	-65.05	1248.85	-65.02	-6.09
1	2	1031	-0.53	-6.49	-6.47	-0.55	-0.38	978.71	-82.81	964.59	-68.69	-121.63
1	2	1032	6.18	-3.24	1.27	1.67	-4.71	342.09	-203.15	200.90	-61.96	-238.85
1	2	1033	21.53	-14.15	7.93	-0.55	17.33	-330.52	-1538.93	-1525.01	-344.44	128.92
1	2	1034	24.77	3.07	13.64	14.21	-10.85	-72.61	-1787.29	-1785.64	-74.26	-53.17
1	2	1035	6.03	-4.07	3.85	-1.89	4.16	102.71	-323.63	-116.02	-104.90	213.10
1	2	1036	-1.07	-4.81	-4.76	-1.12	0.42	767.80	-97.27	743.04	-72.52	144.23
1	2	1037	-0.72	-6.36	-6.36	-0.72	1.52e-02	1042.74	-68.94	1041.18	-67.38	41.65
1	2	1038	-0.40	-5.04	-4.53	-0.92	-1.46	924.08	-90.78	918.99	-85.69	-71.71
1	2	1039	14.69	-2.54	-2.14	14.29	-2.59	532.98	-565.99	329.16	-362.18	427.14
1	2	1040	7.15	-4.41	-2.09	4.83	4.63	396.46	-433.69	276.45	-313.69	-291.93
1	2	1041	46.17	9.11	20.23	35.06	16.98	525.22	9.57	351.18	183.62	243.83
1	2	1042	9.41	-5.50	-5.44	9.36	0.87	1281.03	-173.31	-132.93	1240.65	238.96
1	2	1043	6.82	-1.04	-1.01	6.79	-0.47	1708.65	-72.48	-42.75	1678.92	228.20
1	2	1044	6.61	-0.17	-0.17	6.61	-0.17	1864.10	-43.09	-28.55	1849.57	165.87
1	2	1045	6.20	-5.21e-02	-5.15e-02	6.20	-6.34e-02	1921.70	-28.38	-23.01	1916.33	102.19
1	2	1046	5.86	-3.57e-02	-3.56e-02	5.86	-1.91e-02	1937.70	-21.07	-20.21	1936.85	40.97
1	2	1047	5.75	-3.48e-02	-3.48e-02	5.75	1.40e-02	1939.19	-19.96	-19.78	1939.00	-18.81
1	2	1048	5.86	-4.93e-02	-4.87e-02	5.86	5.83e-02	1930.51	-25.01	-21.77	1927.27	-79.51
1	2	1049	6.04	-0.17	-0.16	6.04	0.16	1894.08	-37.35	-26.68	1883.41	-143.16
1	2	1050	5.96	-1.02	-0.99	5.92	0.49	1785.92	-64.84	-40.91	1761.99	-209.07
1	2	1051	7.03	-6.03	-6.03	7.03	0.15	1451.42	-168.65	-133.30	1416.07	-236.70
1	2	1052	37.96	11.73	23.80	25.88	-13.07	839.48	203.59	337.54	705.53	-259.30
1	2	1053	9.32	-15.74	-12.98	6.56	-7.85	-203.52	-437.19	-431.51	-209.20	-35.99
1	2	1054	11.93	-17.51	-15.80	10.22	6.89	-149.44	-480.38	-479.80	-150.03	13.89
1	2	1055	4.44	-2.30	-2.17	4.31	-0.94	359.24	-269.15	236.92	-146.83	-248.80
1	2	1056	0.44	-2.38	-2.34	0.40	-0.33	267.25	-202.59	192.78	-128.12	171.60
1	2	1057	27.47	5.58	13.71	19.34	-10.58	403.47	109.43	209.41	303.48	-139.29
1	2	1058	6.43	-3.56	-3.56	6.43	-1.29e-02	1170.53	-99.39	-90.72	1161.86	-104.59
1	2	1059	4.32	-0.57	-0.55	4.30	0.28	1553.10	-34.48	-27.57	1546.19	-104.53
1	2	1060	3.71	-8.41e-02	-8.11e-02	3.71	0.11	1721.53	-19.10	-16.19	1718.61	-71.16
1	2	1061	3.27	-1.56e-02	-1.49e-02	3.26	4.99e-02	1797.33	-11.93	-10.99	1796.39	-41.23
1	2	1062	3.01	-3.88e-03	-3.77e-03	3.01	1.85e-02	1825.73	-8.44	-8.30	1825.59	-15.83
1	2	1063	2.96	-2.78e-03	-2.75e-03	2.96	-9.60e-03	1829.32	-7.91	-7.88	1829.29	7.47
1	2	1064	3.11	-1.25e-02	-1.19e-02	3.11	-4.33e-02	1811.86	-10.30	-9.74	1811.30	31.90
1	2	1065	3.39	-8.20e-02	-7.86e-02	3.39	-0.11	1758.67	-16.31	-14.25	1756.61	60.50
1	2	1066	3.70	-0.62	-0.59	3.67	-0.33	1634.32	-31.17	-25.81	1628.96	94.28
1	2	1067	4.75	-4.44	-4.38	4.69	-0.74	1330.52	-103.85	-96.60	1323.27	101.67
1	2	1068	25.63	7.27	17.37	15.54	9.13	758.20	185.77	234.40	709.58	159.59
1	2	1069	4.80	-7.28	-5.96	3.48	3.77	-162.90	-269.59	-269.17	-163.32	6.66
1	2	1070	48.38	-32.75	47.85	-32.22	6.54	1663.08	-3543.01	-3542.82	1662.89	-31.40
1	32	1	4.01	-6.59	1.85	-4.43	-4.27	-316.49	-1234.06	-869.16	-681.40	449.08
1	32	3	1.36	-0.66	0.81	-0.11	-0.90	-468.18	-1246.18	-857.09	-857.27	-389.00
1	32	9	-4.66e-02	-12.15	-2.78	-9.42	-5.06	-1077.66	-2121.81	-2119.55	-1079.92	48.56
1	32	11	3.90	-6.61	-3.93	1.22	-4.58	-1576.32	-3011.35	-3008.25	-1579.43	66.70
1	32	12	7.00	-10.29	5.28	-8.57	-5.17	-1459.30	-2897.39	-2897.28	-1459.41	-12.69
1	32	13	5.68	-3.23	4.62	-2.17	2.88	-1616.37	-2848.79	-2835.91	-1629.24	-125.31
1	32	15	5.72	-3.70	4.67	-2.64	2.97	-1592.72	-2760.16	-2758.98	-1593.91	37.13
1	32	17	3.06	-4.91	-2.39	0.54	3.70	-1127.96	-2035.12	-2035.07	-1128.01	-6.76
1	32	21	1.61	-18.38	0.11	-16.88	5.28	-1386.56	-3272.02	-3262.43	-1396.15	-134.15
1	32	22	2.43	-23.71	0.90	-22.17	6.14	-1753.93	-4331.47	-4327.61	-1757.79	-99.67
1	32	23	7.58	-11.09	5.51	-9.01	-5.87	-1445.20	-3000.59	-2982.64	-1463.14	166.11
1	32	24	1.76	0.60	0.62	1.74	0.16	886.34	245.08	247.63	883.79	40.36
1	32	25	0.99	-1.92	0.89	-1.83	0.51	-320.77	-741.79	-637.24	-425.32	-181.90
1	32	27	1.75	-1.17	0.50	8.90e-02	1.44	-415.32	-738.26	-606.39	-547.19	158.73
1	32	29	9.07	-10.05	1.34	-2.32	-9.38	895.92	-308.81	468.27	118.84	576.47
1	32	30	14.15	0.29	3.22	11.22	-5.66	1161.51	-219.77	406.68	535.07	687.65
1	32	31	14.94	-17.90	13.99	-16.95	-5.50	920.52	-409.48	-178.17	689.21	504.12
1	32	32	7.26	2.90	3.60	6.57	1.60	1274.47	66.17	410.42	930.22	545.39
1	32	33	6.96	2.80	6.06	3.70	1.71	1273.87	-116.62	136.76	1020.49	536.77
1	32	34	5.72	0.34	1.10	4.96	1.87	1264.29	204.49	387.05	1081.73	400.19
1	32	35	5.92	0.30	0.46	5.76	0.91	1354.47	-2.23	158.64	1193.61	438.59
1	32	36	4.53	-0.14	0.26	4.13	1.31	1242.38	266.42	354.01	1154.79	278.95
1	32	37	4.59	-8.73e-02	-3.48e-02	4.54	0.49	1347.75	71.82	155.53	1264.03	315.92
1	32	38	3.62	-6.40e-02	0.14	3.41	0.85	1204.35	292.26	325.11	1171.50	169.97
1	32	39	3.70	-8.53e-02	-4.85e-02	3.66	0.37	1305.20	114.06	145.78	1273.47	191.78
1	32	40	3.01	3.14e-02	0.12	2.93	0.51	1161.73	299.08	304.73	1156.08	69.61

1	32	41	3.17	-4.82e-02	-2.75e-02	3.14	0.26	1257.56	132.25	137.55	1252.26	77.08
1	32	42	2.69	9.09e-02	0.11	2.67	0.21	1124.68	295.62	296.73	1123.57	-30.32
1	32	43	2.86	-3.30e-02	-2.65e-02	2.86	0.14	1217.62	131.87	133.13	1216.37	-36.87
1	32	44	2.61	6.94e-02	7.30e-02	2.61	-9.49e-02	1095.97	280.38	300.31	1076.04	-125.93
1	32	45	2.76	-4.84e-02	-4.81e-02	2.76	2.90e-02	1188.19	112.66	133.02	1167.82	-146.58
1	32	46	2.83	1.48e-02	9.22e-02	2.75	-0.46	1068.75	248.40	313.01	1004.14	-220.97
1	32	47	2.87	-8.37e-02	-8.16e-02	2.87	-7.94e-02	1156.68	71.81	134.22	1094.27	-252.60
1	32	48	3.45	0.14	0.46	3.13	-0.98	1032.06	184.08	328.43	887.71	-318.70
1	32	49	3.39	6.32e-02	8.34e-02	3.37	-0.26	1097.57	-4.08	130.06	963.44	-360.25
1	32	50	4.43	-0.56	1.11	2.76	-2.35	970.04	41.87	332.37	679.54	-430.40
1	32	51	6.21	3.83	4.01	6.03	-0.63	981.27	-95.72	118.07	767.48	-429.59
1	32	52	1.68	-4.00	-1.25	-1.07	2.84	815.43	-226.31	269.34	319.78	-520.26
1	32	53	8.19	4.63e-03	5.31	2.89	3.91	570.95	-380.61	-119.79	310.12	-424.45
1	32	54	5.52	-4.72	-2.62	3.41	4.14	586.95	-222.49	397.84	-33.37	-342.51
1	32	55	1.60	-4.27	-4.27	1.59	-5.84e-02	1140.14	-113.00	800.79	226.35	556.86
1	32	56	1.93	0.27	0.89	1.32	0.80	1187.75	82.58	772.32	498.02	535.29
1	32	57	5.00	0.56	2.14	3.42	2.13	1191.09	291.66	667.07	815.67	443.53
1	32	58	4.53	-5.82e-02	1.38	3.10	2.13	1173.24	393.69	581.90	985.03	333.61
1	32	59	3.79	-0.13	0.80	2.87	1.66	1145.66	426.01	511.43	1060.24	232.76
1	32	60	3.10	3.09e-02	0.54	2.60	1.14	1112.90	428.30	458.94	1082.25	141.55
1	32	61	2.57	0.24	0.45	2.36	0.67	1077.45	421.87	427.15	1072.18	58.56
1	32	62	2.23	0.37	0.41	2.20	0.25	1043.01	415.36	416.15	1042.23	-22.17
1	32	63	2.15	0.36	0.38	2.13	-0.18	1013.61	407.46	425.81	995.26	-103.86
1	32	64	2.38	0.21	0.43	2.16	-0.65	987.61	390.77	454.34	924.04	-184.12
1	32	65	2.77	4.98e-02	0.64	2.18	-1.13	963.65	348.25	499.85	812.05	-265.16
1	32	66	2.66	0.13	0.93	1.86	-1.18	947.31	258.63	558.99	646.95	-341.52
1	32	67	3.96	1.66	2.41	3.21	-1.08	956.73	137.73	675.08	419.38	-389.03
1	32	68	1.13	-2.63	-2.26	0.76	1.13	898.86	-79.10	714.80	104.96	-382.26
1	32	69	-8.59e-04	-2.42	-2.42	-3.88e-03	8.55e-02	1255.69	90.70	1094.27	252.12	402.49
1	32	70	0.63	-0.74	-0.64	0.53	0.36	1181.70	284.25	988.38	477.58	368.96
1	32	71	2.21	-0.31	1.31	0.58	1.21	1100.61	472.44	838.60	734.45	309.74
1	32	72	3.01	-0.32	1.52	1.17	1.65	1062.18	554.63	715.56	901.25	236.18
1	32	73	2.87	-0.15	1.22	1.50	1.50	1046.11	554.99	617.84	983.25	164.07
1	32	74	2.49	0.14	1.01	1.63	1.13	1031.51	526.84	547.69	1010.67	100.42
1	32	75	2.06	0.43	0.86	1.63	0.71	1008.25	502.39	505.95	1004.70	42.28
1	32	76	1.68	0.67	0.75	1.59	0.28	977.22	492.98	493.32	976.88	-12.88
1	32	77	1.54	0.67	0.70	1.52	-0.14	941.91	497.36	509.23	930.03	-71.68
1	32	78	1.70	0.41	0.70	1.40	-0.54	906.04	507.11	553.30	859.84	-127.65
1	32	79	1.80	0.13	0.80	1.13	-0.82	884.12	498.15	625.44	756.83	-181.46
1	32	80	1.59	3.15e-02	0.82	0.81	-0.78	903.59	429.58	723.15	610.02	-230.15
1	32	81	0.76	0.11	0.39	0.49	-0.32	964.05	286.94	839.79	411.20	-262.10
1	32	82	6.70e-02	-0.99	-0.96	4.20e-02	0.16	1061.74	65.60	964.79	162.56	-295.27
1	32	83	-0.23	-2.77	-2.76	-0.24	-0.16	1255.30	217.38	1217.07	255.62	195.51
1	32	84	-0.34	-1.32	-1.32	-0.34	7.07e-02	1144.32	411.67	1098.00	457.99	178.31
1	32	85	0.83	-0.61	0.43	-0.21	0.64	999.90	614.29	924.31	689.88	153.08
1	32	86	2.03	-0.49	1.39	0.14	1.09	938.16	692.23	783.67	846.71	118.86
1	32	87	2.22	-0.22	1.45	0.54	1.13	955.34	644.84	668.40	931.77	82.22
1	32	88	2.08	0.11	1.36	0.83	0.95	970.58	581.30	587.79	964.09	49.83
1	32	89	1.78	0.42	1.21	0.99	0.67	962.47	538.78	539.92	961.33	21.91
1	32	90	1.40	0.71	1.07	1.04	0.35	934.70	527.21	527.24	934.67	-3.51
1	32	91	0.99	0.94	0.95	0.98	1.98e-02	890.48	544.83	547.31	888.00	-29.17
1	32	92	1.09	0.58	0.85	0.82	-0.26	832.41	588.27	601.37	819.31	-55.02
1	32	93	1.06	0.25	0.76	0.55	-0.39	786.55	622.98	687.34	722.19	-79.90
1	32	94	0.90	3.88e-02	0.70	0.23	-0.36	845.78	545.45	803.02	588.20	-104.94
1	32	95	0.11	-0.12	-1.96e-02	1.31e-02	-0.11	956.24	384.95	930.06	411.13	-119.44
1	32	96	-5.47e-02	-1.51	-1.49	-7.65e-02	0.18	1084.02	156.97	1063.95	177.04	-134.93
1	32	97	-0.25	-2.99	-2.98	-0.25	-0.14	1227.35	253.66	1227.29	253.72	-7.42
1	32	98	-0.45	-1.72	-1.71	-0.45	-6.71e-02	1106.44	449.73	1106.41	449.77	-4.86
1	32	99	-0.10	-0.61	-0.27	-0.45	0.24	924.25	672.48	923.97	672.76	-8.37
1	32	100	1.54	-0.46	1.30	-0.22	0.65	827.41	782.23	783.85	825.79	-8.41
1	32	101	1.92	-0.27	1.54	0.11	0.82	913.18	661.78	661.90	913.07	-5.46
1	32	102	1.95	3.66e-02	1.56	0.42	0.77	948.81	578.64	578.67	948.78	-3.17
1	32	103	1.78	0.28	1.44	0.63	0.63	947.64	528.95	528.95	947.64	-0.43
1	32	104	1.52	0.46	1.27	0.71	0.46	921.06	516.83	516.92	920.96	6.14
1	32	105	1.22	0.53	1.09	0.66	0.27	873.90	537.08	537.64	873.34	13.73
1	32	106	0.92	0.47	0.88	0.50	0.12	806.05	592.32	594.65	803.72	22.22
1	32	107	0.57	0.27	0.56	0.27	-4.52e-02	723.03	666.40	682.42	707.02	25.50
1	32	108	0.85	-6.89e-03	0.79	5.61e-02	-0.22	813.92	573.49	810.67	576.74	27.74
1	32	109	-1.36e-02	-0.31	-0.27	-6.19e-02	-0.11	938.65	405.20	936.30	407.55	35.34
1	32	110	-5.97e-02	-1.61	-1.61	-6.50e-02	9.00e-02	1074.47	177.11	1072.40	179.18	43.04
1	32	111	-0.20	-3.02	-3.01	-0.21	-0.16	1208.85	185.16	1141.28	252.73	-254.17
1	32	112	-0.33	-1.94	-1.90	-0.37	-0.26	1103.59	368.14	1021.67	450.06	-231.38
1	32	113	-0.15	-0.72	-0.52	-0.35	-0.28	973.36	548.25	843.70	677.91	-195.72
1	32	114	0.74	-0.19	0.72	-0.17	-0.13	937.86	601.61	701.78	837.69	-153.78
1	32	115	1.59	0.12	1.59	0.12	-3.08e-02	961.01	566.88	597.98	929.91	-106.26
1	32	116	1.65	0.41	1.65	0.41	-5.36e-02	976.83	511.94	521.34	967.43	-65.46

1	32	117	1.52	0.61	1.52	0.62	-7.43e-02	967.00	473.45	474.82	965.63	-25.96
1	32	118	1.34	0.69	1.33	0.70	-9.32e-02	937.60	463.80	464.14	937.27	12.59
1	32	119	1.14	0.62	1.11	0.64	-0.11	893.51	475.01	481.34	887.18	51.08
1	32	120	0.87	0.44	0.84	0.48	-0.11	840.02	507.23	533.34	813.91	89.49
1	32	121	0.92	0.20	0.86	0.26	-0.20	801.57	534.74	624.58	711.73	126.10
1	32	122	0.81	-5.31e-02	0.68	8.30e-02	-0.32	819.99	497.28	742.21	575.05	138.02
1	32	123	7.20e-02	-0.45	-0.37	-1.31e-02	-0.19	909.36	357.21	864.90	401.67	150.24
1	32	124	-4.30e-02	-1.66	-1.66	-4.34e-02	-2.54e-02	1032.95	137.22	995.95	174.22	178.26
1	32	125	-2.81e-02	-3.07	-3.03	-6.96e-02	-0.35	1176.39	17.21	942.67	250.94	-465.09
1	32	126	9.50e-02	-2.18	-2.01	-7.24e-02	-0.59	1106.60	181.63	831.72	456.50	-422.72
1	32	127	0.53	-1.15	-0.65	3.62e-02	-0.77	1052.38	323.74	671.66	704.46	-363.95
1	32	128	1.11	-0.72	0.17	0.23	-0.91	1044.83	382.70	544.22	883.30	-284.36
1	32	129	2.23	-7.94e-02	1.64	0.51	-1.01	1050.42	410.80	478.35	982.87	-196.59
1	32	130	2.29	0.13	1.62	0.80	-1.00	1040.73	397.80	419.66	1018.87	-116.53
1	32	131	2.14	0.31	1.44	1.01	-0.89	1016.62	380.50	383.67	1013.45	-44.80
1	32	132	1.88	0.39	1.22	1.04	-0.74	981.86	374.07	374.77	981.15	20.66
1	32	133	1.56	0.39	1.01	0.95	-0.58	940.67	370.86	383.53	927.99	84.03
1	32	134	1.19	0.28	0.74	0.73	-0.45	894.76	374.45	419.63	849.58	146.52
1	32	135	1.44	0.34	1.29	0.48	-0.38	857.77	382.37	503.11	737.03	206.94
1	32	136	0.82	0.10	0.63	0.29	-0.32	845.82	333.52	596.42	582.91	256.06
1	32	137	0.23	-0.41	-0.34	0.15	-0.21	877.05	222.83	708.71	391.17	285.99
1	32	138	3.07e-03	-1.54	-1.54	-2.28e-03	-9.07e-02	964.00	20.40	824.51	159.88	334.91
1	32	139	0.58	-3.23	-2.94	0.30	-1.00	1104.23	-267.35	597.24	239.64	-662.07
1	32	140	1.14	-2.44	-2.06	0.76	-1.10	1090.63	-114.31	512.38	463.94	-601.98
1	32	141	1.55	-1.26	-0.67	0.95	-1.15	1117.26	39.21	398.03	758.43	-508.01
1	32	142	2.12	-0.79	0.22	1.11	-1.39	1143.44	148.98	322.04	970.39	-377.03
1	32	143	3.07	2.20e-02	1.66	1.43	-1.52	1146.28	232.63	306.13	1072.78	-248.50
1	32	144	2.94	0.17	1.44	1.68	-1.38	1121.99	259.74	283.61	1098.13	-141.45
1	32	145	2.60	0.36	1.18	1.78	-1.08	1085.93	265.69	269.04	1082.58	-52.33
1	32	146	2.19	0.50	0.95	1.73	-0.75	1046.46	259.94	260.93	1045.47	27.92
1	32	147	1.74	0.57	0.77	1.54	-0.44	1005.70	239.54	255.08	990.16	107.99
1	32	148	1.26	0.52	0.58	1.21	-0.19	961.37	206.87	260.25	907.99	193.47
1	32	149	1.40	0.81	1.38	0.83	-0.11	914.08	172.75	304.04	782.79	283.01
1	32	150	0.78	0.47	0.69	0.56	-0.14	859.12	93.52	354.02	598.63	362.74
1	32	151	0.46	-0.28	-0.27	0.45	-8.28e-02	813.19	-7.78	437.50	367.91	409.01
1	32	152	6.02e-02	-1.03	-1.03	5.74e-02	5.53e-02	839.36	-181.63	533.16	124.57	467.84
1	32	153	2.48	-4.33	-2.89	1.05	-2.78	926.31	-686.48	54.76	185.07	-803.76
1	32	154	3.67	-2.69	-2.32	3.30	-1.50	1024.05	-526.25	24.35	473.45	-741.92
1	32	155	2.84	-1.08	-0.50	2.26	-1.39	1166.29	-306.62	1.59	858.08	-599.14
1	32	156	3.94	-0.17	1.27	2.50	-1.96	1240.37	-90.58	43.83	1105.96	-401.03
1	32	157	4.18	-0.35	0.98	2.85	-2.06	1239.10	41.47	94.58	1185.99	-246.54
1	32	158	3.86	-0.15	0.72	2.98	-1.66	1204.65	113.24	130.41	1187.48	-135.82
1	32	159	3.36	0.13	0.62	2.88	-1.16	1160.94	144.58	146.92	1158.60	-48.69
1	32	160	2.89	0.37	0.57	2.68	-0.69	1117.93	142.34	143.17	1117.10	28.54
1	32	161	2.48	0.60	0.63	2.45	-0.25	1076.44	109.54	121.74	1064.23	107.93
1	32	162	2.15	0.77	0.79	2.13	0.16	1028.78	42.14	84.52	986.41	200.03
1	32	163	1.59	0.68	0.82	1.45	0.33	959.90	-72.24	32.81	854.86	312.07
1	32	164	1.26	0.66	0.71	1.20	0.17	854.65	-221.76	-1.25	634.14	434.44
1	32	165	1.22	-0.54	-0.53	1.21	0.17	685.87	-371.19	-1.59	316.27	504.07
1	32	166	0.35	-0.71	-0.38	1.91e-02	0.49	599.13	-512.65	49.66	36.82	555.85
1	32	167	3.38	-8.80	-4.52	-0.90	-5.81	442.34	-1397.52	-952.17	-3.02	-788.07
1	32	168	7.15	-4.93	-4.48	6.71	-2.28	790.66	-1114.80	-724.35	400.22	-769.11
1	32	169	5.30	1.30	1.54	5.06	-0.94	1234.76	-666.89	-502.38	1070.25	-534.58
1	32	170	6.89	-0.32	1.30	5.26	-3.01	1330.18	-303.42	-246.54	1273.30	-299.47
1	32	171	6.05	-0.73	0.16	5.15	-2.29	1313.27	-110.37	-88.25	1291.15	-176.08
1	32	172	5.09	-0.46	2.72e-02	4.61	-1.57	1271.65	-1.96	5.19	1264.50	-95.15
1	32	173	4.31	-0.20	4.10e-02	4.07	-1.01	1223.86	45.65	46.60	1222.91	-33.37
1	32	174	3.77	-2.25e-02	6.07e-02	3.69	-0.56	1178.48	44.49	44.87	1178.10	20.82
1	32	175	3.48	0.22	0.22	3.48	-0.10	1135.95	0.65	6.05	1130.55	78.12
1	32	176	3.47	0.45	0.51	3.40	0.44	1084.98	-96.59	-77.72	1066.11	148.12
1	32	177	3.80	0.30	0.68	3.42	1.09	998.60	-282.10	-233.60	950.09	244.48
1	32	178	1.17	-0.51	-0.51	1.16	5.58e-02	828.76	-597.84	-485.39	716.30	384.42
1	32	179	2.84	1.31e-02	0.64	2.21	1.17	748.38	143.13	180.61	710.90	145.87
1	32	180	27.42	-10.89	22.94	-6.41	12.31	-868.71	-2499.54	-2379.40	-988.85	-426.03
1	32	181	20.47	-6.40	12.94	1.13	12.07	1057.67	-1760.74	-1579.08	876.01	-692.08
1	32	182	13.36	-1.64	2.89	8.83	-6.89	1379.01	-837.72	-810.05	1351.34	-246.10
1	32	183	10.31	-2.50	-1.69	9.51	-3.11	1360.81	-425.67	-420.67	1355.80	-94.43
1	32	184	7.82	-1.11	-0.86	7.57	-1.48	1348.02	-184.89	-183.13	1346.26	-51.87
1	32	185	6.02	-0.76	-0.63	5.89	-0.93	1305.58	-59.99	-59.42	1305.01	-27.90
1	32	186	4.98	-0.48	-0.40	4.90	-0.64	1256.16	-5.07	-5.00	1256.09	-9.35
1	32	187	4.41	-0.34	-0.30	4.36	-0.44	1209.91	-5.67	-5.64	1209.88	6.57
1	32	188	4.24	-9.82e-02	-8.55e-02	4.23	-0.23	1166.69	-53.41	-52.92	1166.20	24.45
1	32	189	4.51	4.49e-02	5.06e-02	4.51	0.16	1112.90	-163.81	-162.11	1111.20	46.55
1	32	190	5.55	-0.19	-3.05e-02	5.39	0.95	1023.92	-364.28	-359.36	1018.99	82.53
1	32	191	9.42	-4.70	-0.14	4.86	6.60	803.30	-788.33	-759.76	774.74	211.30
1	32	192	0.74	-12.60	0.42	-12.28	2.02	371.28	-1512.40	-1422.49	281.37	401.60

1	32	193	9.96	2.59	9.68	2.87	-1.41	-1119.09	-2082.03	-2068.77	-1132.35	-112.22
1	32	194	73.10	-41.33	73.10	-41.33	1.68e-02	1522.03	-1271.24	-1263.14	1513.92	150.28
1	32	195	21.89	-0.80	-0.67	21.76	-1.73	1528.15	-768.57	-768.55	1528.14	6.03
1	32	196	11.78	1.29	1.31	11.77	-0.40	1379.91	-358.69	-358.60	1379.82	12.31
1	32	197	7.70	-0.73	-0.72	7.69	-0.20	1346.56	-177.16	-177.10	1346.50	9.64
1	32	198	6.07	-0.69	-0.69	6.06	-0.18	1308.08	-58.58	-58.57	1308.07	4.60
1	32	199	5.02	-0.47	-0.47	5.01	-0.16	1258.18	-6.79	-6.78	1258.17	3.96
1	32	200	4.46	-0.36	-0.36	4.45	-0.12	1211.86	-8.49	-8.49	1211.86	1.34e-02
1	32	201	4.29	-0.16	-0.16	4.29	-0.10	1167.87	-56.73	-56.73	1167.87	-0.76
1	32	202	4.64	7.10e-02	7.27e-02	4.64	-8.97e-02	1115.41	-165.58	-165.57	1115.40	3.02
1	32	203	5.47	0.50	0.51	5.46	-0.19	1017.69	-366.00	-365.97	1017.66	-6.04
1	32	204	17.36	1.59	1.71	17.23	1.42	957.16	-713.29	-713.28	957.15	3.56
1	32	205	27.33	18.55	26.73	19.14	2.20	294.39	-1190.13	-1187.64	291.91	-60.69
1	32	206	3.88	-7.59	-5.19	1.48	-4.67	-2037.75	-3930.59	-3930.51	-2037.83	12.37
1	32	207	21.14	-12.89	20.06	-11.80	-5.98	-455.25	-1770.82	-1592.17	-633.90	450.68
1	32	208	25.42	0.38	15.97	9.83	-12.14	987.41	-1526.65	-1262.39	723.15	771.06
1	32	209	15.02	-0.41	2.95	11.65	6.37	1385.09	-758.04	-703.59	1330.64	337.23
1	32	210	10.97	-1.93	-1.52	10.56	2.26	1358.56	-386.24	-373.54	1345.87	148.29
1	32	211	8.05	-1.15	-1.01	7.91	1.11	1341.89	-170.75	-165.74	1336.89	86.83
1	32	212	6.13	-0.75	-0.68	6.06	0.67	1300.75	-51.97	-50.31	1299.10	47.35
1	32	213	5.03	-0.48	-0.46	5.00	0.38	1251.81	-0.59	-0.32	1251.54	18.37
1	32	214	4.44	-0.35	-0.34	4.44	0.18	1205.67	-1.68	-1.64	1205.63	-6.67
1	32	215	4.31	-0.12	-0.12	4.31	-6.31e-02	1162.08	-47.38	-46.44	1161.14	-33.77
1	32	216	4.66	-2.07e-02	1.99e-02	4.62	-0.43	1108.62	-151.82	-148.19	1104.98	-67.58
1	32	217	5.87	-0.13	0.12	5.63	-1.19	1019.77	-340.70	-329.46	1008.53	-123.13
1	32	218	9.88	-5.31	-0.62	5.18	-7.02	805.71	-734.54	-683.74	754.91	-275.07
1	32	219	2.97	-9.98	2.92	-9.94	0.78	420.69	-1379.07	-1231.02	272.63	-494.51
1	32	220	10.00	-0.26	8.59	1.15	-3.54	-772.90	-1401.90	-1401.13	-773.66	21.93
1	32	221	-0.47	-8.76	-7.29	-1.94	3.17	555.37	-1182.17	-681.75	54.95	786.82
1	32	222	4.70	-0.57	-0.49	4.62	0.64	887.29	-861.62	-460.97	486.64	734.97
1	32	223	7.74	1.13	2.57	6.30	2.73	1246.42	-526.20	-341.00	1061.23	542.20
1	32	224	7.95	-0.33	1.36	6.26	3.33	1315.81	-229.84	-161.55	1247.52	317.63
1	32	225	6.54	-0.70	6.27e-02	5.77	2.22	1296.45	-74.68	-48.06	1269.83	189.19
1	32	226	5.31	-0.64	-0.30	4.96	1.38	1257.53	11.21	19.95	1248.79	103.98
1	32	227	4.43	-0.18	-4.40e-02	4.29	0.78	1211.64	55.19	56.40	1210.43	37.45
1	32	228	3.87	-4.19e-02	-2.49e-02	3.86	0.26	1166.89	52.55	52.98	1166.46	-21.93
1	32	229	3.66	0.29	0.32	3.63	-0.28	1123.81	17.31	23.55	1117.57	-82.87
1	32	230	3.85	0.49	0.76	3.58	-0.90	1071.71	-65.17	-42.81	1049.35	-157.85
1	32	231	4.36	-0.17	0.57	3.62	-1.68	985.54	-234.53	-177.56	928.56	-257.43
1	32	232	2.46	-2.27e-02	0.73	1.71	-1.14	839.75	-494.25	-364.81	710.31	-394.87
1	32	233	6.65	2.44	2.93	6.16	-1.35	577.41	-669.46	-401.51	309.46	-512.15
1	32	234	-3.26	-8.48	-4.80	-6.94	2.38	80.01	-861.45	-598.69	-182.74	-422.29
1	32	235	1.53	-3.78	-2.94	0.68	1.94	968.05	-552.58	204.19	211.28	760.31
1	32	236	2.77	-2.21	-2.07	2.63	0.83	1032.70	-401.21	131.78	499.71	692.95
1	32	237	2.95	-0.93	-6.32e-03	2.03	1.65	1151.07	-222.66	65.31	863.09	559.17
1	32	238	5.10	0.36	2.69	2.76	2.37	1221.33	3.99	135.24	1090.08	377.56
1	32	239	4.60	-0.29	1.06	3.25	2.19	1216.50	80.73	130.72	1166.51	232.98
1	32	240	4.06	-2.76e-02	0.73	3.30	1.59	1186.44	129.66	145.73	1170.37	129.32
1	32	241	3.43	0.13	0.45	3.11	0.97	1146.33	146.54	148.69	1144.18	46.28
1	32	242	2.91	0.47	0.52	2.86	0.36	1104.42	144.25	145.11	1103.57	-28.57
1	32	243	2.62	0.69	0.72	2.60	-0.21	1061.43	120.19	131.94	1049.68	-104.51
1	32	244	2.51	0.48	0.73	2.27	-0.66	1011.07	63.63	104.62	970.09	-192.75
1	32	245	2.10	0.10	0.63	1.57	-0.88	940.29	-30.25	68.85	841.19	-293.88
1	32	246	2.22	0.86	1.90	1.18	-0.58	845.06	-130.28	81.32	633.47	-402.00
1	32	247	0.91	0.52	0.57	0.85	-0.13	708.38	-242.21	126.34	339.83	-463.15
1	32	248	0.13	-0.52	-0.27	-0.12	-0.31	645.23	-391.80	190.45	62.98	-514.58
1	32	249	0.20	-3.31	-3.23	0.12	0.52	1076.98	-175.05	650.04	251.89	593.52
1	32	250	0.58	-2.32	-2.16	0.42	0.66	1054.91	-22.40	554.15	478.36	537.32
1	32	251	1.26	-1.27	-0.70	0.69	1.05	1077.75	115.36	429.21	763.90	451.16
1	32	252	2.21	-0.99	0.15	1.07	1.53	1109.65	195.05	340.26	964.44	334.25
1	32	253	3.44	0.13	2.01	1.55	1.64	1119.54	259.46	317.87	1061.12	216.39
1	32	254	2.91	5.86e-02	1.13	1.85	1.38	1104.25	251.33	269.43	1086.15	122.91
1	32	255	2.56	0.47	1.10	1.93	0.96	1074.31	248.39	250.80	1071.90	44.50
1	32	256	2.04	0.80	0.99	1.85	0.45	1036.38	242.99	243.86	1035.51	-26.33
1	32	257	1.63	0.96	0.96	1.63	6.76e-04	992.53	231.96	244.70	979.79	-97.60
1	32	258	1.38	0.61	0.71	1.28	-0.26	942.35	211.98	256.34	897.98	-174.45
1	32	259	1.99	0.76	1.90	0.85	-0.31	886.30	208.18	317.87	776.60	-249.71
1	32	260	1.67	0.47	1.65	0.49	-0.15	829.23	161.33	388.93	601.63	-316.56
1	32	261	0.61	0.32	0.61	0.32	5.82e-03	794.68	74.83	488.90	380.61	-355.83
1	32	262	7.01e-02	-0.53	-0.53	6.96e-02	-1.79e-02	841.68	-100.77	603.09	137.82	-409.80
1	32	263	-0.12	-3.51	-3.51	-0.12	3.99e-02	1090.50	79.62	912.98	257.13	384.62
1	32	264	-0.15	-2.50	-2.48	-0.18	0.24	1016.79	243.68	796.44	464.03	348.99
1	32	265	0.20	-1.33	-1.06	-8.11e-02	0.59	971.25	370.52	632.86	708.92	297.95
1	32	266	0.95	-0.96	-0.18	0.17	0.94	993.38	394.55	505.05	882.87	232.30
1	32	267	2.60	-7.18e-02	2.03	0.50	1.10	1022.42	404.86	447.95	979.33	157.33
1	32	268	2.48	0.17	1.84	0.81	1.04	1027.34	367.13	379.68	1014.79	90.15

1	32	269	2.12	0.39	1.51	0.99	0.83	1011.32	332.15	333.80	1009.66	33.45
1	32	270	1.71	0.68	1.34	1.05	0.50	978.90	326.13	326.65	978.39	-18.25
1	32	271	1.11	0.70	0.83	0.97	0.20	933.61	322.60	330.58	925.64	-69.35
1	32	272	0.76	0.43	0.44	0.75	5.32e-02	875.78	339.64	368.08	847.34	-120.17
1	32	273	1.75	0.47	1.75	0.47	2.89e-02	814.43	395.21	473.37	736.27	-163.27
1	32	274	1.34	0.24	1.33	0.24	9.23e-02	786.90	380.45	581.40	585.95	-203.21
1	32	275	0.41	6.23e-02	0.37	9.96e-02	0.11	826.09	277.01	704.86	398.24	-227.74
1	32	276	-6.36e-03	-0.96	-0.96	-1.31e-02	7.98e-02	926.26	71.33	831.91	165.68	-267.88
1	32	277	-0.19	-3.76	-3.76	-0.20	-6.90e-02	1064.47	219.36	1029.16	254.67	169.10
1	32	278	-0.36	-2.75	-2.75	-0.36	7.68e-03	955.15	405.77	908.54	452.38	153.08
1	32	279	-0.31	-1.38	-1.35	-0.35	0.19	840.24	573.58	733.57	680.25	130.64
1	32	280	0.10	-0.68	-0.38	-0.20	0.38	875.97	553.25	588.95	840.26	101.23
1	32	281	1.78	-0.14	1.58	6.10e-02	0.59	945.40	497.20	509.00	933.60	71.74
1	32	282	2.18	5.28e-02	1.91	0.32	0.71	976.17	433.28	436.88	972.56	44.08
1	32	283	1.95	0.20	1.65	0.50	0.66	972.07	382.77	383.20	971.63	16.06
1	32	284	1.68	0.34	1.44	0.58	0.52	943.50	374.19	374.25	943.45	-5.49
1	32	285	1.13	0.33	0.92	0.54	0.35	894.13	383.43	384.90	892.66	-27.37
1	32	286	1.50	0.33	1.45	0.38	0.23	824.13	448.26	454.73	817.66	-48.90
1	32	287	1.64	0.19	1.62	0.20	0.15	740.58	527.87	554.35	714.10	-70.23
1	32	288	1.10	4.98e-02	1.08	6.85e-02	0.14	719.96	528.80	671.68	577.08	-83.06
1	32	289	0.21	-7.78e-02	0.14	-4.17e-03	0.13	820.75	384.71	801.51	403.95	-89.56
1	32	290	-3.77e-02	-1.19	-1.18	-4.35e-02	8.18e-02	950.54	161.09	936.05	175.59	-106.00
1	32	291	-0.18	-3.86	-3.86	-0.18	-0.12	1035.59	244.84	1029.31	251.12	-70.20
1	32	292	-0.32	-2.89	-2.88	-0.33	-0.19	920.07	437.06	911.12	446.01	-65.13
1	32	293	-0.29	-1.53	-1.48	-0.33	-0.23	766.00	645.65	740.36	671.29	-49.28
1	32	294	-7.37e-02	-0.57	-0.43	-0.22	-0.22	835.26	591.67	597.13	829.80	-36.05
1	32	295	1.12	-1.28e-02	1.11	-2.19e-03	-0.11	924.18	506.16	507.31	923.03	-21.90
1	32	296	1.87	0.22	1.87	0.22	2.72e-02	962.82	443.13	443.37	962.58	-11.14
1	32	297	1.64	0.38	1.64	0.38	7.74e-02	962.73	391.22	391.23	962.72	-2.39
1	32	298	1.44	0.46	1.43	0.47	8.44e-02	935.96	382.28	382.30	935.94	3.31
1	32	299	1.10	0.43	1.10	0.44	6.31e-02	887.08	396.89	397.20	886.76	12.44
1	32	300	1.74	0.31	1.74	0.31	4.37e-02	814.86	468.57	469.80	813.62	20.65
1	32	301	1.54	0.17	1.54	0.17	1.79e-02	717.92	555.59	561.53	711.97	30.48
1	32	302	1.01	5.60e-02	1.01	5.72e-02	3.46e-02	687.43	566.18	677.23	576.38	33.65
1	32	303	0.14	-3.28e-02	0.12	-6.09e-03	6.34e-02	810.13	400.45	806.51	404.07	38.32
1	32	304	-4.57e-02	-1.11	-1.11	-4.80e-02	4.93e-02	943.41	174.32	941.70	176.02	36.20
1	32	305	-6.21e-02	-3.78	-3.76	-8.23e-02	-0.27	1011.79	152.91	918.44	246.26	-267.32
1	32	306	-3.55e-02	-2.90	-2.83	-0.11	-0.45	930.35	322.75	808.58	444.53	-243.23
1	32	307	0.18	-1.67	-1.45	-3.13e-02	-0.59	876.83	456.11	650.95	681.98	-209.79
1	32	308	0.57	-0.90	-0.44	0.10	-0.68	919.65	456.95	524.97	851.63	-163.84
1	32	309	0.98	-0.44	0.24	0.30	-0.71	971.08	413.31	436.55	947.83	-111.47
1	32	310	2.01	0.23	1.74	0.50	-0.64	992.33	395.46	402.45	985.34	-64.19
1	32	311	1.72	0.42	1.49	0.65	-0.49	984.44	358.43	359.46	983.40	-25.41
1	32	312	1.50	0.54	1.34	0.70	-0.36	956.04	352.09	352.33	955.80	11.97
1	32	313	1.27	0.56	1.17	0.65	-0.24	911.31	361.31	365.06	907.57	45.21
1	32	314	1.66	0.49	1.65	0.50	-0.11	851.05	405.47	421.87	834.65	83.89
1	32	315	1.49	0.33	1.49	0.33	-1.25e-03	781.04	446.78	498.43	729.39	120.82
1	32	316	0.99	0.21	0.98	0.21	4.33e-02	750.36	434.64	600.80	584.20	157.64
1	32	317	0.22	7.50e-02	0.19	0.10	5.84e-02	802.21	318.38	721.23	399.37	180.63
1	32	318	-2.14e-02	-0.87	-0.87	-2.28e-02	3.45e-02	909.19	108.08	849.66	167.61	210.11
1	32	319	0.34	-3.77	-3.62	0.19	-0.77	963.88	-58.96	671.09	233.83	-462.33
1	32	320	0.77	-2.96	-2.75	0.56	-0.85	939.31	88.35	582.92	444.74	-419.84
1	32	321	1.03	-1.71	-1.38	0.70	-0.89	965.48	211.88	461.04	716.32	-354.52
1	32	322	1.40	-0.99	-0.39	0.81	-1.03	1017.25	269.34	376.63	909.95	-262.18
1	32	323	1.73	-0.57	0.14	1.02	-1.07	1048.34	287.56	328.52	1007.37	-171.71
1	32	324	2.01	0.20	1.02	1.19	-0.90	1049.21	301.34	313.98	1036.57	-96.40
1	32	325	1.78	0.50	1.01	1.27	-0.62	1029.68	293.21	295.02	1027.87	-36.50
1	32	326	1.50	0.78	1.03	1.25	-0.34	998.60	290.59	291.12	998.07	19.38
1	32	327	1.19	0.89	0.95	1.13	-0.11	958.69	285.56	293.66	950.59	73.38
1	32	328	1.55	0.91	1.54	0.93	9.54e-02	909.91	295.13	326.18	878.85	134.64
1	32	329	1.53	0.63	1.48	0.68	0.21	852.08	283.65	367.79	767.94	201.86
1	32	330	1.06	0.42	0.98	0.50	0.21	800.11	236.64	434.75	601.99	269.04
1	32	331	0.54	8.36e-02	0.23	0.39	0.21	777.00	139.68	530.34	386.34	310.42
1	32	332	0.11	-0.49	-0.43	4.49e-02	0.18	825.36	-41.17	641.22	142.97	354.48
1	32	333	1.69	-4.38	-3.48	0.79	-2.16	828.00	-398.03	242.67	187.29	-612.39
1	32	334	2.92	-3.13	-2.86	2.64	-1.27	903.98	-251.70	205.53	446.75	-565.11
1	32	335	2.20	-1.64	-1.27	1.83	-1.13	1029.85	-82.38	157.70	789.77	-457.59
1	32	336	2.97	-0.19	0.81	1.98	-1.47	1113.11	81.92	183.37	1011.66	-307.12
1	32	337	3.09	-0.14	0.77	2.18	-1.45	1130.18	166.75	204.82	1092.11	-187.70
1	32	338	2.80	0.11	0.68	2.22	-1.10	1114.84	205.90	217.96	1102.78	-103.99
1	32	339	2.40	0.27	0.53	2.14	-0.70	1085.73	217.89	219.63	1083.99	-38.82
1	32	340	2.09	0.58	0.65	2.02	-0.31	1052.31	217.63	218.08	1051.86	19.37
1	32	341	1.89	0.80	0.80	1.89	6.45e-03	1016.17	200.93	208.75	1008.35	79.45
1	32	342	1.81	0.56	0.64	1.72	0.32	972.33	157.04	186.35	943.01	151.78
1	32	343	1.54	0.33	0.59	1.28	0.50	909.84	83.47	162.00	831.31	242.33
1	32	344	1.48	0.59	0.92	1.15	0.43	823.55	-15.93	167.52	640.10	346.91

1	32	345	1.34	-0.21	-3.76e-02	1.17	0.48	697.74	-148.51	192.93	356.30	415.17
1	32	346	0.77	-0.47	0.19	0.11	0.62	632.71	-304.80	249.46	78.45	460.89
1	32	347	2.69	-6.95	-4.08	-0.19	-4.41	434.02	-942.11	-542.33	34.24	-624.76
1	32	348	6.17	-4.30	-3.85	5.72	-2.13	735.20	-720.84	-374.40	388.75	-620.01
1	32	349	4.39	0.37	0.52	4.24	-0.77	1099.09	-369.44	-225.56	955.22	-436.56
1	32	350	5.27	-0.32	0.72	4.23	-2.18	1194.32	-88.98	-38.39	1143.72	-249.74
1	32	351	4.49	-0.99	-0.48	3.98	-1.59	1196.41	39.51	58.86	1177.06	-148.38
1	32	352	3.80	-0.31	-1.56e-02	3.51	-1.06	1172.05	121.60	128.00	1165.65	-81.75
1	32	353	3.23	-2.01e-02	0.12	3.09	-0.66	1138.02	153.22	154.18	1137.06	-30.70
1	32	354	2.88	0.17	0.20	2.85	-0.30	1103.18	152.39	152.61	1102.96	14.66
1	32	355	2.76	0.36	0.36	2.76	2.29e-02	1068.83	124.62	128.70	1064.75	61.95
1	32	356	2.90	0.80	0.89	2.81	0.43	1027.25	65.30	80.90	1011.65	121.50
1	32	357	3.27	0.10	0.43	2.94	0.97	956.91	-78.00	-36.70	915.60	202.58
1	32	358	1.46	-0.44	-0.41	1.43	0.24	821.26	-316.58	-216.27	720.94	322.62
1	32	359	6.60	-0.51	8.13e-02	6.01	1.96	602.47	-539.10	-283.81	347.19	475.66
1	32	360	-1.17	-3.20	-1.25	-3.11	-0.41	120.30	-684.47	-436.73	-127.43	371.48
1	32	361	22.33	-7.72	18.13	-3.52	10.42	-661.04	-1803.66	-1701.23	-763.47	-326.41
1	32	362	13.89	-5.80	7.45	0.64	9.24	927.85	-1252.30	-1074.51	750.06	-596.66
1	32	363	10.21	-1.49	1.48	7.24	-5.09	1202.46	-501.23	-470.40	1171.63	-227.10
1	32	364	7.86	-2.41	-1.95	7.41	-2.11	1224.36	-189.32	-181.28	1216.32	-106.30
1	32	365	5.95	-1.19	-1.05	5.81	-0.98	1231.59	-11.55	-8.01	1228.04	-66.29
1	32	366	4.58	-0.69	-0.61	4.50	-0.63	1206.80	78.85	80.24	1205.41	-39.54
1	32	367	3.82	-0.31	-0.25	3.77	-0.48	1171.68	118.05	118.28	1171.44	-15.62
1	32	368	3.45	-9.62e-02	-6.03e-02	3.41	-0.36	1136.54	118.35	118.38	1136.51	5.39
1	32	369	3.42	0.21	0.22	3.40	-0.23	1102.25	89.49	90.17	1101.57	26.25
1	32	370	3.76	0.35	0.35	3.76	2.40e-02	1058.67	14.23	16.84	1056.06	52.20
1	32	371	4.72	8.97e-02	0.20	4.61	0.70	985.75	-129.79	-122.66	978.62	88.92
1	32	372	7.58	-3.64	-0.50	4.44	5.04	815.39	-460.39	-428.67	783.67	198.64
1	32	373	0.39	-9.43	0.26	-9.30	1.09	484.57	-1031.65	-936.82	389.74	367.13
1	32	374	9.20	0.55	7.35	2.39	-3.54	-851.12	-1500.76	-1500.07	-851.81	-21.09
1	32	375	55.46	-28.65	55.45	-28.64	0.82	1230.16	-859.89	-855.63	1225.90	94.27
1	32	376	17.38	-1.29	-1.27	17.36	-0.59	1313.39	-443.41	-442.86	1312.85	-30.96
1	32	377	9.00	0.71	0.71	9.00	-0.13	1238.32	-128.06	-127.36	1237.62	-30.93
1	32	378	5.91	-0.96	-0.95	5.90	-0.26	1233.57	-3.37	-2.61	1232.81	-30.72
1	32	379	4.66	-0.67	-0.65	4.64	-0.35	1212.94	80.52	80.94	1212.52	-21.81
1	32	380	3.90	-0.32	-0.29	3.87	-0.38	1178.17	117.47	117.54	1178.10	-8.61
1	32	381	3.54	-0.14	-9.42e-02	3.50	-0.40	1143.18	116.93	116.94	1143.18	1.49
1	32	382	3.52	0.13	0.18	3.47	-0.43	1108.04	88.27	88.38	1107.93	10.68
1	32	383	3.93	0.34	0.40	3.87	-0.46	1064.03	15.98	16.17	1063.84	14.18
1	32	384	4.77	0.30	0.33	4.74	-0.36	983.27	-131.94	-131.54	982.86	21.15
1	32	385	13.92	1.47	1.53	13.86	0.87	925.08	-382.53	-381.44	923.98	37.84
1	32	386	21.93	14.79	21.62	15.10	1.46	424.41	-738.72	-738.58	424.28	-12.46
1	32	387	13.88	-8.47	13.16	-7.75	-3.94	-360.76	-1129.16	-1025.82	-464.10	262.16
1	32	388	18.34	-0.42	10.67	7.25	-9.23	828.92	-993.58	-799.47	634.81	562.21
1	32	389	11.53	-1.21	1.86	8.45	5.45	1188.19	-405.84	-376.13	1158.48	215.57
1	32	390	8.50	-1.62	-1.20	8.08	2.02	1221.15	-133.03	-129.54	1217.66	68.64
1	32	391	6.17	-1.21	-1.09	6.05	0.95	1232.50	7.52	8.11	1231.91	26.91
1	32	392	4.71	-0.66	-0.61	4.65	0.53	1213.63	87.57	87.61	1213.59	6.97
1	32	393	3.90	-0.16	-0.14	3.88	0.27	1181.58	124.25	124.25	1181.58	-2.34
1	32	394	3.52	-4.99e-02	-4.90e-02	3.52	5.80e-02	1147.07	121.50	121.58	1146.99	-8.67
1	32	395	3.52	0.24	0.25	3.51	-0.20	1111.14	95.50	95.76	1110.89	-16.07
1	32	396	3.97	0.29	0.38	3.88	-0.58	1063.90	28.73	29.50	1063.13	-28.31
1	32	397	5.09	0.10	0.36	4.83	-1.10	983.09	-99.78	-97.05	980.36	-54.31
1	32	398	7.94	-4.02	-0.67	4.59	-5.37	798.85	-386.95	-363.47	775.37	-165.21
1	32	399	2.44	-6.51	2.33	-6.40	0.98	484.40	-882.06	-784.09	386.43	-352.51
1	32	400	6.43	0.21	5.64	1.00	-2.07	-547.16	-911.70	-906.33	-552.54	43.94
1	32	401	0.14	-8.08	-6.86	-1.07	2.91	456.45	-648.24	-284.49	92.70	519.15
1	32	402	4.05	-1.09	-0.94	3.90	0.87	740.91	-405.39	-133.18	468.70	487.79
1	32	403	6.43	0.59	2.16	4.87	2.59	1074.99	-171.61	-64.16	967.55	349.85
1	32	404	6.48	-0.79	0.90	4.79	3.07	1180.28	7.15	36.67	1150.76	183.75
1	32	405	5.41	-0.54	0.43	4.44	2.19	1203.68	100.49	109.74	1194.43	100.60
1	32	406	4.40	-0.49	3.85e-02	3.87	1.52	1194.57	140.20	142.66	1192.11	50.83
1	32	407	3.70	-0.11	0.18	3.41	1.01	1168.80	159.79	160.16	1168.43	19.41
1	32	408	3.24	0.16	0.27	3.14	0.56	1135.32	157.01	157.06	1135.27	-6.64
1	32	409	3.03	0.44	0.44	3.03	1.24e-02	1095.69	136.88	138.22	1094.35	-35.78
1	32	410	3.20	0.14	0.28	3.06	-0.64	1040.69	83.65	89.81	1034.53	-76.52
1	32	411	3.74	-8.04e-02	0.50	3.16	-1.37	949.94	-9.27	11.73	928.94	-140.35
1	32	412	2.33	-0.64	-0.21	1.89	-1.05	801.80	-192.54	-128.49	737.75	-244.10
1	32	413	5.99	1.25	1.84	5.40	-1.57	554.52	-294.51	-119.08	379.08	-343.76
1	32	414	-3.38	-5.22	-4.08	-4.53	0.90	138.04	-443.71	-231.36	-74.30	-280.07
1	32	415	1.17	-4.51	-3.85	0.50	1.83	769.90	-154.20	393.84	221.86	453.98
1	32	416	2.27	-3.16	-2.91	2.01	1.14	831.16	-10.87	330.50	489.79	413.42
1	32	417	2.52	-1.79	-0.86	1.59	1.78	972.18	94.54	238.02	828.71	324.55
1	32	418	4.60	5.66e-03	2.43	2.17	2.29	1096.77	217.74	267.33	1047.18	202.81
1	32	419	4.05	-0.43	1.01	2.60	2.10	1149.72	216.40	230.83	1135.30	115.12
1	32	420	3.64	-8.00e-02	0.84	2.72	1.60	1158.76	219.97	223.72	1155.01	59.19

1	32	421	3.15	0.24	0.75	2.64	1.10	1142.44	214.62	215.10	1141.96	21.10
1	32	422	2.67	0.49	0.67	2.49	0.60	1111.04	210.03	210.11	1110.96	-8.77
1	32	423	2.30	0.74	0.74	2.30	3.58e-02	1066.23	200.26	202.40	1064.10	-42.91
1	32	424	2.22	0.66	0.82	2.06	-0.48	1001.08	186.59	196.15	991.52	-87.72
1	32	425	1.85	-0.43	-0.13	1.54	-0.77	902.77	141.88	172.30	872.35	-149.07
1	32	426	2.27	0.77	1.78	1.26	-0.70	770.78	141.68	233.65	678.81	-222.26
1	32	427	1.39	0.24	0.63	1.00	-0.55	618.36	70.99	289.58	399.77	-268.08
1	32	428	0.60	-0.78	-0.24	6.24e-02	-0.68	571.94	-83.28	377.86	110.80	-299.16
1	32	429	0.17	-4.43	-4.33	6.85e-02	0.66	840.28	130.65	712.08	258.85	273.01
1	32	430	0.53	-3.29	-3.07	0.31	0.88	802.21	293.03	610.28	484.96	246.76
1	32	431	1.21	-1.94	-1.33	0.60	1.25	872.80	372.92	475.26	770.47	201.70
1	32	432	3.34	-3.97e-02	2.30	1.00	1.56	1007.04	395.65	427.82	974.86	136.52
1	32	433	3.45	0.22	2.18	1.49	1.58	1091.63	342.80	351.66	1082.76	80.98
1	32	434	3.17	0.45	1.78	1.83	1.36	1122.80	293.92	296.07	1120.64	42.20
1	32	435	2.76	0.58	1.37	1.97	1.04	1117.35	265.46	265.72	1117.09	14.99
1	32	436	2.24	0.69	1.01	1.92	0.63	1088.31	256.04	256.08	1088.27	-5.64
1	32	437	1.75	0.65	0.69	1.71	0.21	1038.66	255.96	257.02	1037.59	-28.80
1	32	438	1.39	0.35	0.36	1.38	-9.76e-02	963.09	265.09	269.53	958.65	-55.49
1	32	439	1.05	-0.21	-0.15	0.99	-0.27	851.80	296.09	310.53	837.36	-88.41
1	32	440	1.72	0.57	1.64	0.65	-0.30	713.48	386.14	440.02	659.60	-121.39
1	32	441	0.84	0.24	0.66	0.41	-0.27	648.32	339.72	557.71	430.33	-140.54
1	32	442	0.18	-0.66	-0.59	0.10	-0.24	737.07	119.18	689.31	166.95	-165.02
1	32	443	-5.18e-02	-4.77	-4.76	-6.04e-02	0.20	840.47	258.07	833.04	265.49	65.32
1	32	444	6.44e-04	-3.44	-3.40	-3.08e-02	0.33	732.75	469.01	719.12	482.64	58.39
1	32	445	0.33	-1.66	-1.53	0.20	0.50	758.20	553.75	562.91	749.04	42.30
1	32	446	2.45	0.41	2.25	0.62	0.61	946.36	493.23	494.47	945.12	23.66
1	32	447	2.71	0.66	2.29	1.07	0.82	1058.05	398.00	398.25	1057.79	13.05
1	32	448	2.74	0.70	1.98	1.46	0.98	1104.15	321.62	321.76	1104.02	10.30
1	32	449	2.52	0.73	1.59	1.66	0.90	1105.84	287.71	287.72	1105.84	2.41
1	32	450	2.14	0.73	1.22	1.65	0.67	1078.65	277.63	277.63	1078.65	0.12
1	32	451	1.68	0.64	0.88	1.44	0.44	1027.12	287.84	287.84	1027.11	-0.72
1	32	452	1.23	0.36	0.49	1.10	0.30	946.66	315.18	315.20	946.64	3.79
1	32	453	0.73	-0.16	-0.16	0.73	3.84e-02	825.89	369.88	369.89	825.88	-2.31
1	32	454	1.58	0.43	1.55	0.46	-0.18	655.98	524.30	524.33	655.95	-1.97
1	32	455	0.63	0.21	0.53	0.31	-0.18	658.68	442.41	658.60	442.48	3.92
1	32	456	5.21e-02	-0.83	-0.83	4.96e-02	-4.71e-02	800.98	183.03	800.98	183.04	1.63
1	32	457	8.19e-02	-4.98	-4.96	6.71e-02	-0.27	841.10	191.57	774.47	258.20	-197.07
1	32	458	0.29	-3.64	-3.63	0.28	-0.20	779.15	367.66	668.16	478.65	-182.63
1	32	459	0.54	-1.63	-1.60	0.51	-0.26	832.07	442.03	520.76	753.34	-156.55
1	32	460	1.35	0.51	1.01	0.84	-0.41	972.91	417.46	435.81	954.56	-99.28
1	32	461	2.36	1.22	2.29	1.29	-0.27	1072.83	368.81	373.74	1067.90	-58.72
1	32	462	1.96	1.64	1.96	1.64	6.81e-04	1113.90	308.63	309.60	1112.93	-27.88
1	32	463	1.84	1.53	1.57	1.80	0.11	1114.01	274.28	274.29	1114.00	-3.12
1	32	464	1.80	1.18	1.21	1.77	0.13	1087.83	264.30	264.68	1087.45	17.66
1	32	465	1.57	0.87	0.90	1.54	0.12	1038.79	270.81	272.39	1037.21	34.77
1	32	466	1.21	0.50	0.53	1.17	0.15	963.01	289.25	294.04	958.23	56.57
1	32	467	0.76	0.47	0.48	0.76	-3.28e-02	851.66	336.01	350.67	837.00	85.70
1	32	468	1.58	0.42	1.51	0.49	-0.29	708.16	437.19	483.84	661.51	102.30
1	32	469	0.55	0.14	0.28	0.42	-0.19	660.93	387.12	610.50	437.55	106.14
1	32	470	0.14	-0.86	-0.82	0.11	0.18	774.16	150.35	749.80	174.71	120.83
1	32	471	0.90	-5.53	-5.20	0.57	-1.41	787.33	-37.25	526.11	223.97	-383.61
1	32	472	1.73	-4.01	-3.99	1.71	-0.30	811.73	109.16	450.13	470.77	-351.13
1	32	473	1.54	-1.55	-1.36	1.35	-0.74	932.31	198.98	344.25	787.04	-292.28
1	32	474	2.67	0.23	1.11	1.79	-1.17	1055.77	254.18	305.86	1004.09	-196.87
1	32	475	3.04	0.79	1.67	2.17	-1.10	1126.98	258.04	275.07	1109.95	-120.45
1	32	476	2.86	0.89	1.44	2.32	-0.88	1149.00	243.16	248.08	1144.09	-66.51
1	32	477	2.61	0.95	1.22	2.34	-0.62	1139.81	227.98	228.72	1139.08	-25.93
1	32	478	2.36	0.90	1.00	2.26	-0.36	1112.04	220.72	220.83	1111.93	10.07
1	32	479	2.06	0.70	0.72	2.04	-0.16	1067.76	212.88	215.15	1065.48	44.01
1	32	480	1.70	0.46	0.47	1.70	4.76e-02	1001.71	201.34	211.16	991.89	88.09
1	32	481	1.14	3.48e-02	6.40e-02	1.11	0.18	905.14	190.25	223.03	872.35	149.55
1	32	482	1.61	0.79	1.60	0.79	-7.22e-02	778.99	220.60	318.20	681.38	212.07
1	32	483	0.84	-0.28	-0.24	0.80	-0.21	661.87	161.03	406.37	416.53	250.37
1	32	484	0.47	-1.32	-0.98	0.13	0.70	658.89	-10.51	515.78	132.60	274.45
1	32	485	0.76	-9.61	-9.14	0.29	-2.16	519.56	-423.99	-14.53	110.10	-467.64
1	32	486	2.33	-2.56	-2.43	2.19	0.80	742.56	-234.99	53.24	454.32	-445.74
1	32	487	5.23	-1.83	-1.16	4.56	-2.07	1016.05	-99.29	38.55	878.21	-367.07
1	32	488	4.68	0.93	1.52	4.09	-1.37	1140.23	69.05	117.21	1092.07	-221.97
1	32	489	4.15	0.75	1.33	3.57	-1.27	1186.74	130.16	145.98	1170.92	-128.32
1	32	490	3.58	0.49	0.77	3.31	-0.88	1190.42	153.07	157.58	1185.91	-68.25
1	32	491	3.17	0.67	0.73	3.11	-0.40	1171.84	165.54	166.21	1171.17	-25.83
1	32	492	2.97	0.70	0.70	2.97	-4.71e-02	1142.71	162.24	162.33	1142.62	9.03
1	32	493	2.84	0.61	0.61	2.84	0.11	1104.56	140.31	142.47	1102.41	45.50
1	32	494	2.79	0.54	0.61	2.72	0.38	1050.25	101.58	111.30	1040.54	95.51
1	32	495	2.84	-0.36	-5.45e-02	2.53	0.94	965.46	15.96	50.80	930.62	178.49
1	32	496	2.24	-8.45e-02	0.47	1.68	0.99	837.93	-89.28	9.03	739.62	285.46

1	32	497	2.87	-0.12	-0.12	2.87	-0.14	588.87	-150.69	47.36	390.83	327.48
1	32	498	-4.61	-5.36	-5.13	-4.83	-0.34	302.82	-339.95	-19.02	-18.10	321.39
1	32	499	14.49	-17.22	14.41	-17.15	-1.57	83.05	-847.43	-608.47	-155.91	-406.50
1	32	500	10.57	-3.91	-2.73	9.39	3.97	607.88	-869.03	-580.99	319.85	-585.18
1	32	501	9.83	0.71	1.38	9.17	2.38	1108.24	-375.33	-298.99	1031.91	-327.76
1	32	502	5.90	2.27	2.33	5.84	-0.45	1205.18	-109.85	-92.49	1187.81	-150.10
1	32	503	4.95	0.45	0.53	4.87	-0.58	1232.26	4.11	8.70	1227.67	-74.91
1	32	504	4.23	7.50e-02	9.08e-02	4.22	-0.26	1221.88	71.78	72.67	1220.98	-32.12
1	32	505	3.81	0.25	0.26	3.81	0.15	1196.08	106.62	106.64	1196.06	4.47
1	32	506	3.67	0.34	0.39	3.62	0.41	1166.72	107.69	108.20	1166.20	23.39
1	32	507	3.70	0.39	0.47	3.63	0.48	1133.58	77.98	78.97	1132.60	32.20
1	32	508	3.99	0.13	0.25	3.88	0.65	1089.73	3.40	7.19	1085.94	64.04
1	32	509	4.61	-0.34	-0.11	4.38	1.04	1015.17	-137.75	-123.72	1001.14	126.40
1	32	510	4.57	-1.41	-1.26	4.42	0.93	851.67	-386.26	-330.21	795.63	257.37
1	32	511	-1.76	-6.20	-3.71	-4.26	-2.20	498.53	-749.24	-551.27	300.56	455.88
1	32	512	10.77	-8.20	10.22	-7.65	3.17	-55.09	-590.32	-469.14	-176.27	223.99
1	32	513	1.24	0.34	0.45	1.14	0.29	705.15	290.66	300.63	695.19	63.50
1	32	514	28.40	-37.20	28.02	-36.82	-5.00	935.29	-1535.65	-1534.79	934.43	45.99
1	32	515	11.03	1.67	10.16	2.54	-2.72	1230.28	-549.35	-547.10	1228.03	63.25
1	32	516	5.93	3.12	3.12	5.93	4.85e-02	1236.30	-208.85	-206.43	1233.88	59.04
1	32	517	5.41	-0.15	-0.11	5.37	0.52	1245.20	-66.59	-64.56	1243.18	51.49
1	32	518	4.66	-0.47	-0.41	4.60	0.56	1226.00	28.42	29.53	1224.89	36.47
1	32	519	4.16	-0.12	-4.65e-02	4.09	0.55	1195.39	77.55	78.02	1194.93	22.89
1	32	520	3.96	0.15	0.22	3.88	0.52	1164.88	82.19	82.23	1164.84	6.73
1	32	521	4.02	0.24	0.28	3.97	0.41	1135.76	46.21	46.29	1135.68	-9.53
1	32	522	4.45	0.50	0.52	4.43	0.27	1098.83	-37.06	-36.61	1098.38	-22.47
1	32	523	5.30	0.39	0.40	5.30	0.12	1029.87	-213.96	-212.84	1028.74	-37.39
1	32	524	10.27	7.56	9.29	8.53	1.30	959.59	-442.73	-441.16	958.01	-47.02
1	32	525	17.32	-1.48	17.12	-1.28	1.93	517.73	-1155.30	-1154.63	517.06	-33.44
1	32	526	1.62	0.39	0.48	1.52	0.33	486.25	345.51	402.02	429.73	68.99
1	32	527	0.17	-1.16	-1.13	0.13	-0.21	491.30	120.97	486.46	125.80	42.04
1	32	528	5.03	-6.49	3.40	-4.86	4.01	357.39	-70.63	224.08	62.68	-198.21
1	32	529	4.00	-1.50	-0.92	3.42	1.69	595.46	-18.74	170.23	406.48	-283.47
1	32	530	4.94	1.75	1.94	4.76	-0.74	888.96	157.78	208.96	837.78	-186.55
1	32	531	3.85	0.31	0.73	3.44	-1.14	1023.60	170.02	184.93	1008.69	-111.81
1	32	532	3.38	0.13	0.37	3.15	-0.84	1107.23	157.53	162.15	1102.61	-66.11
1	32	533	2.96	0.14	0.27	2.82	-0.61	1138.84	140.55	141.76	1137.63	-34.70
1	32	534	2.66	0.14	0.22	2.58	-0.46	1138.84	128.15	128.23	1138.75	-9.11
1	32	535	2.45	0.17	0.22	2.40	-0.33	1118.92	125.63	125.71	1118.85	8.74
1	32	536	2.29	0.20	0.22	2.27	-0.19	1081.31	131.29	132.31	1080.30	31.05
1	32	537	2.24	0.26	0.26	2.23	3.19e-02	1018.96	144.06	148.08	1014.94	59.16
1	32	538	2.38	0.36	0.44	2.30	0.40	915.30	156.42	167.96	903.76	92.89
1	32	539	13.90	-11.86	13.49	-11.44	-3.25	-94.28	-1107.67	-880.01	-321.93	422.94
1	32	540	17.20	-3.94	1.36	11.89	-9.16	749.08	-1102.17	-773.00	419.92	707.82
1	32	541	8.38	1.20	1.22	8.36	-0.34	1168.25	-520.78	-417.72	1065.19	404.29
1	32	542	6.19	0.62	0.75	6.05	0.86	1215.32	-199.80	-166.22	1181.73	215.42
1	32	543	5.21	-0.82	-0.63	5.02	1.05	1223.79	-48.51	-34.55	1209.82	132.54
1	32	544	4.45	-0.50	-0.34	4.30	0.86	1202.85	49.59	54.54	1197.90	75.37
1	32	545	3.94	-7.72e-02	3.09e-02	3.84	0.65	1171.77	95.41	96.37	1170.81	32.24
1	32	546	3.68	0.26	0.31	3.63	0.42	1141.88	100.44	100.50	1141.82	-8.00
1	32	547	3.67	0.62	0.63	3.66	9.97e-02	1114.12	68.83	71.14	1111.81	-49.14
1	32	548	4.00	0.56	0.59	3.97	-0.30	1079.56	-16.16	-7.87	1071.27	-94.94
1	32	549	4.73	0.78	1.02	4.49	-0.95	1019.09	-167.39	-145.04	996.75	-161.28
1	32	550	4.80	-2.81	-1.43	3.41	-2.94	870.31	-503.18	-426.02	793.15	-316.27
1	32	551	2.51	-7.33	-0.60	-4.22	4.58	539.90	-950.31	-739.84	329.43	-518.98
1	32	552	6.44	-2.13	6.41	-2.10	-0.46	-299.12	-846.58	-762.19	-383.51	-197.68
1	32	553	2.39	-9.56	-8.01	0.83	4.02	582.84	-756.84	-242.89	68.88	651.45
1	32	554	5.26	-1.87	-1.86	5.25	0.33	830.04	-491.55	-87.68	426.17	608.81
1	32	555	6.49	-1.83	-1.45	6.11	1.73	1090.57	-293.34	-83.29	880.52	496.55
1	32	556	5.10	-1.14	-0.66	4.63	1.65	1158.98	-78.17	8.34	1072.47	315.50
1	32	557	4.37	-0.84	-0.37	3.90	1.50	1167.62	44.97	81.20	1131.39	198.41
1	32	558	3.78	-0.40	-6.00e-02	3.44	1.14	1149.40	114.78	127.35	1136.83	113.32
1	32	559	3.33	0.12	0.31	3.13	0.77	1121.12	148.59	150.60	1119.11	44.19
1	32	560	3.01	0.54	0.60	2.95	0.38	1092.63	151.52	151.79	1092.35	-15.99
1	32	561	2.87	0.93	0.94	2.87	-9.66e-02	1065.47	126.87	133.70	1058.63	-79.79
1	32	562	3.09	1.49	1.74	2.84	-0.58	1032.03	76.54	101.65	1006.93	-152.83
1	32	563	3.27	1.14	1.67	2.74	-0.93	976.03	-44.11	21.93	909.99	-251.01
1	32	564	2.26	1.04e-02	2.95e-02	2.24	-0.21	874.10	-256.85	-110.04	727.30	-380.10
1	32	565	6.26	0.22	0.34	6.14	-0.83	667.60	-380.63	-87.41	374.38	-470.51
1	32	566	-3.69	-4.53	-4.31	-3.90	-0.37	326.32	-588.73	-204.58	-57.83	-451.60
1	32	567	1.79	-4.91	-3.98	0.86	2.32	915.03	-306.63	415.03	193.37	600.69
1	32	568	3.00	-3.73	-3.48	2.75	1.28	944.66	-152.41	357.32	434.93	547.16
1	32	569	2.61	-1.97	-1.53	2.17	1.34	1025.29	1.34	282.59	744.03	457.04
1	32	570	3.05	-1.21	-0.46	2.30	1.62	1075.57	117.56	244.26	948.88	324.53
1	32	571	3.08	-0.79	-7.17e-02	2.36	1.50	1088.56	180.98	231.84	1037.69	208.75
1	32	572	2.86	-0.26	0.29	2.31	1.18	1078.85	211.58	228.63	1061.79	120.43

1	32	573	2.55	0.33	0.67	2.20	0.80	1057.06	225.69	228.37	1054.38	47.09
1	32	574	2.20	0.78	0.91	2.08	0.40	1030.95	226.15	226.54	1030.55	-17.84
1	32	575	1.93	1.26	1.27	1.92	-7.80e-02	1002.19	213.67	223.33	992.53	-86.75
1	32	576	2.27	1.36	1.94	1.69	-0.44	967.54	193.07	229.60	931.01	-164.17
1	32	577	2.40	1.09	2.18	1.31	-0.48	919.32	139.76	234.02	825.07	-254.15
1	32	578	1.64	1.11	1.39	1.35	-0.27	850.47	49.50	255.43	644.54	-350.05
1	32	579	1.66	1.57e-02	0.13	1.55	-0.41	761.35	-63.42	315.70	382.23	-411.04
1	32	580	1.73	-0.65	0.73	0.35	-1.17	740.52	-226.08	404.88	109.55	-460.19
1	32	581	0.34	-4.60	-4.48	0.22	0.78	992.34	-19.70	744.01	228.63	435.49
1	32	582	0.80	-3.64	-3.43	0.59	0.95	951.76	130.90	655.38	427.28	394.27
1	32	583	1.18	-2.22	-1.84	0.80	1.07	949.14	258.47	529.33	678.28	337.21
1	32	584	1.63	-1.31	-0.64	0.96	1.23	978.27	312.80	432.73	858.34	255.79
1	32	585	1.96	-0.73	6.29e-02	1.17	1.22	1002.19	319.70	366.64	955.25	172.72
1	32	586	2.03	-0.17	0.55	1.31	1.04	1007.00	311.17	326.08	992.09	100.78
1	32	587	1.94	0.39	0.98	1.35	0.76	995.29	303.94	306.22	993.01	39.61
1	32	588	1.64	0.81	1.15	1.29	0.41	972.17	300.43	300.71	971.90	-13.58
1	32	589	1.77	1.13	1.76	1.13	3.47e-02	940.03	308.72	316.90	931.85	-71.39
1	32	590	2.06	0.88	2.03	0.91	-0.20	899.67	317.38	350.08	866.97	-134.05
1	32	591	2.02	0.65	1.98	0.69	-0.22	850.12	319.32	405.75	763.69	-195.98
1	32	592	1.46	0.56	1.41	0.60	-0.19	810.58	287.34	490.37	607.55	-254.98
1	32	593	1.00	0.34	0.77	0.57	-0.32	812.90	194.52	606.28	401.14	-291.68
1	32	594	0.69	-0.20	0.33	0.15	-0.44	892.56	3.88	737.82	158.62	-337.00
1	32	595	-6.37e-02	-4.91	-4.90	-7.78e-02	0.26	1001.41	158.64	925.21	234.84	241.69
1	32	596	-2.69e-02	-3.80	-3.73	-9.82e-02	0.51	918.04	324.91	821.89	421.06	218.60
1	32	597	0.23	-2.28	-2.04	-1.49e-02	0.74	849.62	468.25	673.59	644.29	190.12
1	32	598	0.67	-1.29	-0.78	0.15	0.86	872.72	481.87	550.52	804.06	148.73
1	32	599	1.18	-0.63	9.50e-02	0.45	0.89	923.29	435.07	458.01	900.35	103.31
1	32	600	1.48	-0.13	0.71	0.64	0.80	949.51	389.51	396.44	942.58	61.93
1	32	601	1.65	0.28	1.18	0.75	0.65	949.70	363.54	364.54	948.69	24.29
1	32	602	1.57	0.54	1.36	0.76	0.42	930.27	357.54	357.61	930.20	-6.35
1	32	603	1.93	0.64	1.91	0.66	0.15	894.10	379.09	382.58	890.61	-42.25
1	32	604	2.08	0.52	2.08	0.52	4.96e-04	840.36	421.36	435.11	826.61	-74.65
1	32	605	1.95	0.33	1.95	0.33	-5.30e-02	774.17	472.54	518.27	728.44	-108.18
1	32	606	1.46	0.24	1.46	0.25	-9.51e-02	748.39	472.22	630.55	590.06	-136.59
1	32	607	0.83	0.17	0.79	0.21	-0.16	822.99	352.61	765.30	410.29	-154.29
1	32	608	0.12	-0.23	-0.14	2.20e-02	-0.16	952.43	134.49	909.92	177.00	-181.56
1	32	609	-0.15	-5.12	-5.12	-0.16	0.14	995.80	232.81	992.96	235.65	46.41
1	32	610	-0.26	-3.94	-3.92	-0.28	0.27	889.10	414.51	885.48	418.12	41.25
1	32	611	-0.18	-2.25	-2.17	-0.26	0.39	739.86	622.39	729.52	632.73	33.28
1	32	612	2.77e-02	-0.99	-0.84	-0.13	0.36	787.66	594.69	597.62	784.73	23.60
1	32	613	0.38	-0.19	0.10	9.00e-02	0.29	877.56	495.49	496.03	877.02	14.32
1	32	614	0.87	0.20	0.76	0.30	0.25	920.92	426.98	427.07	920.82	6.80
1	32	615	1.31	0.44	1.26	0.49	0.20	930.05	390.81	390.81	930.05	1.81
1	32	616	1.45	0.52	1.44	0.53	0.11	913.04	383.47	383.47	913.04	0.24
1	32	617	1.98	0.45	1.98	0.45	-3.28e-02	874.06	411.94	412.05	873.95	-7.20
1	32	618	2.12	0.31	2.12	0.31	-7.47e-02	810.87	471.61	471.91	810.57	-10.12
1	32	619	1.97	0.18	1.97	0.18	-5.31e-02	717.24	563.68	564.57	716.35	-11.66
1	32	620	1.49	8.56e-02	1.48	8.99e-02	-7.78e-02	686.86	583.61	685.72	584.75	-10.79
1	32	621	0.68	9.77e-03	0.66	2.68e-02	-0.11	824.71	412.12	824.53	412.30	-8.46
1	32	622	-2.89e-02	-0.49	-0.47	-4.48e-02	-8.39e-02	972.60	181.92	972.44	182.09	-11.46
1	32	623	-0.13	-5.23	-5.23	-0.13	9.06e-02	1001.54	192.92	959.87	234.59	-178.77
1	32	624	-0.23	-4.00	-4.00	-0.23	8.62e-02	909.14	364.23	854.63	418.74	-163.50
1	32	625	-0.21	-2.17	-2.17	-0.21	1.25e-02	815.31	525.45	702.69	638.07	-141.29
1	32	626	-2.67e-02	-0.84	-0.81	-6.14e-02	-0.16	837.82	531.87	575.39	794.30	-106.87
1	32	627	0.45	-0.17	0.10	0.18	-0.30	901.69	465.11	478.68	888.13	-75.76
1	32	628	0.91	0.23	0.73	0.42	-0.30	936.34	409.42	413.88	931.88	-48.28
1	32	629	1.29	0.54	1.21	0.61	-0.23	941.64	379.48	380.27	940.85	-21.03
1	32	630	1.44	0.61	1.39	0.65	-0.18	923.89	373.33	373.42	923.80	7.14
1	32	631	1.98	0.54	1.96	0.56	-0.19	886.89	398.78	400.53	885.13	29.22
1	32	632	2.15	0.40	2.14	0.41	-0.14	831.24	447.69	456.94	821.99	58.86
1	32	633	2.03	0.24	2.03	0.25	-9.64e-02	762.38	508.66	544.58	726.46	88.44
1	32	634	1.52	0.13	1.50	0.14	-0.13	736.18	517.13	662.44	590.87	103.52
1	32	635	0.65	5.52e-02	0.62	8.29e-02	-0.13	831.44	380.58	799.09	412.93	116.35
1	32	636	-9.58e-03	-0.52	-0.52	-1.42e-02	-4.83e-02	964.79	157.58	942.26	180.10	132.96
1	32	637	3.00e-02	-5.26	-5.25	2.28e-02	-0.19	997.14	48.82	817.43	228.53	-371.65
1	32	638	0.20	-3.99	-3.99	0.20	-0.15	944.06	202.20	723.31	422.95	-339.17
1	32	639	0.36	-2.05	-2.01	0.32	-0.31	922.25	331.43	589.26	664.42	-293.01
1	32	640	0.77	-0.90	-0.67	0.53	-0.59	947.89	372.20	482.68	837.41	-226.71
1	32	641	1.21	-0.30	8.20e-02	0.83	-0.66	974.48	367.32	407.03	934.77	-150.11
1	32	642	1.39	0.24	0.59	1.04	-0.53	988.58	345.86	359.14	975.30	-91.42
1	32	643	1.39	0.75	1.03	1.12	-0.32	981.66	333.12	335.28	979.50	-37.33
1	32	644	1.34	1.03	1.27	1.09	-0.13	961.01	330.77	331.16	960.62	15.66
1	32	645	1.83	0.93	1.83	0.93	7.09e-03	928.40	343.57	350.63	921.34	63.86
1	32	646	2.14	0.67	2.13	0.68	0.11	886.38	362.85	391.80	857.43	119.66
1	32	647	2.14	0.40	2.14	0.40	8.79e-02	839.26	376.17	458.62	756.81	177.15
1	32	648	1.57	0.25	1.57	0.25	-7.85e-02	807.20	354.87	555.09	606.98	224.67

1	32	649	0.54	0.23	0.51	0.26	-9.38e-02	833.46	251.85	677.24	408.07	257.79
1	32	650	0.14	-0.45	-0.43	0.11	0.12	925.92	52.56	810.65	167.83	295.61
1	32	651	0.73	-5.54	-5.33	0.51	-1.14	938.60	-201.87	536.43	200.30	-544.91
1	32	652	1.62	-4.09	-4.09	1.62	-0.13	947.14	-49.15	471.01	426.99	-497.65
1	32	653	1.41	-1.69	-1.53	1.25	-0.69	1003.07	92.15	377.76	717.46	-422.61
1	32	654	2.15	-0.97	-0.48	1.66	-1.13	1043.27	190.97	320.10	914.14	-305.58
1	32	655	2.35	-0.48	-4.96e-02	1.92	-1.01	1061.18	237.06	288.91	1009.32	-200.12
1	32	656	2.24	5.55e-02	0.33	1.96	-0.72	1058.52	254.81	272.56	1040.76	-118.14
1	32	657	2.03	0.61	0.72	1.92	-0.38	1041.29	263.01	265.86	1038.44	-47.01
1	32	658	1.84	1.02	1.02	1.83	-5.21e-02	1018.07	264.58	265.16	1017.50	20.80
1	32	659	1.84	1.40	1.57	1.67	0.21	990.46	262.13	272.53	980.06	86.41
1	32	660	2.25	1.20	2.02	1.44	0.44	957.15	248.57	287.22	918.50	160.93
1	32	661	2.52	0.82	2.36	0.98	0.50	914.46	211.57	311.47	814.57	245.43
1	32	662	1.76	0.72	1.74	0.74	0.13	858.77	139.02	355.18	642.61	329.93
1	32	663	0.81	9.65e-02	0.14	0.77	-0.16	802.91	30.37	436.35	396.93	385.76
1	32	664	0.45	-0.84	-0.52	0.12	0.56	811.26	-143.89	539.47	127.91	430.97
1	32	665	0.62	-10.51	-10.32	0.43	-1.45	648.91	-578.62	-25.30	95.59	-610.78
1	32	666	2.15	-2.13	-1.99	2.01	0.76	856.64	-360.72	73.32	422.59	-583.09
1	32	667	5.36	-1.91	-1.18	4.63	-2.19	1069.08	-177.44	65.35	826.29	-493.66
1	32	668	4.46	-1.11	-0.74	4.09	-1.39	1131.72	-0.74	104.60	1026.38	-328.93
1	32	669	3.75	-0.66	-0.37	3.46	-1.10	1144.99	101.55	145.02	1101.51	-208.51
1	32	670	3.26	-0.20	-2.80e-02	3.09	-0.74	1132.34	158.10	173.16	1117.28	-120.19
1	32	671	2.89	0.29	0.34	2.83	-0.38	1108.43	185.81	188.24	1106.00	-47.31
1	32	672	2.69	0.63	0.63	2.69	-2.46e-02	1083.04	189.13	189.53	1082.64	18.93
1	32	673	2.67	1.13	1.19	2.62	0.28	1057.70	175.55	184.17	1049.08	86.80
1	32	674	2.92	1.41	1.72	2.61	0.61	1027.49	132.46	164.52	995.44	166.32
1	32	675	3.38	1.50	2.32	2.56	0.94	976.32	48.75	128.75	896.31	260.41
1	32	676	2.31	0.24	0.66	1.89	0.83	891.47	-133.33	39.16	718.98	383.42
1	32	677	3.16	0.33	0.34	3.16	5.83e-02	713.00	-250.61	72.57	389.82	454.95
1	32	678	-3.03	-4.58	-3.45	-4.16	-0.69	470.20	-456.75	24.14	-10.70	463.15
1	32	679	14.45	-16.62	14.45	-16.62	0.13	215.59	-944.12	-575.12	-153.41	-540.16
1	32	680	10.97	-4.63	-3.30	9.64	4.35	715.48	-958.32	-556.79	313.96	-714.74
1	32	681	9.84	1.09	1.57	9.37	1.98	1139.51	-410.41	-261.49	990.59	-456.77
1	32	682	5.94	0.61	0.65	5.89	-0.50	1201.12	-151.07	-95.63	1145.67	-268.13
1	32	683	4.85	-0.72	-0.63	4.75	-0.72	1211.85	-11.79	10.13	1189.93	-162.33
1	32	684	4.09	-0.40	-0.33	4.02	-0.54	1195.64	77.67	85.47	1187.84	-93.07
1	32	685	3.62	2.44e-04	3.25e-02	3.59	-0.34	1168.78	120.94	122.21	1167.52	-36.38
1	32	686	3.42	0.30	0.31	3.41	-0.12	1142.36	125.32	125.53	1142.15	14.71
1	32	687	3.46	0.82	0.83	3.46	6.24e-02	1117.29	103.39	107.79	1112.89	66.71
1	32	688	3.82	1.34	1.38	3.78	0.29	1086.30	38.40	54.29	1070.42	128.04
1	32	689	4.53	0.38	0.48	4.42	0.66	1030.98	-122.59	-81.90	990.30	212.78
1	32	690	4.91	-0.83	-0.69	4.77	0.89	906.63	-398.76	-288.88	796.75	362.44
1	32	691	-0.50	-6.90	-3.75	-3.64	-3.20	601.69	-809.08	-517.80	310.41	571.04
1	32	692	9.66	-6.84	9.56	-6.74	1.26	84.66	-691.05	-442.22	-164.16	362.08
1	32	693	-1.44	-2.74	-2.11	-2.07	-0.65	484.49	17.23	143.85	357.88	207.68
1	32	694	26.11	-35.44	26.00	-35.34	-2.56	864.33	-1512.31	-1509.86	861.87	-76.37
1	32	695	10.11	2.20	9.83	2.48	-1.46	1203.23	-523.73	-520.98	1200.47	-68.94
1	32	696	5.55	2.22	2.22	5.55	9.72e-02	1229.62	-207.57	-204.33	1226.38	-68.14
1	32	697	5.05	-0.59	-0.59	5.05	-3.29e-02	1248.83	-61.43	-59.19	1246.59	-54.16
1	32	698	4.36	-0.41	-0.40	4.35	-0.16	1237.70	40.17	41.42	1236.45	-38.67
1	32	699	3.91	-7.80e-02	-6.10e-02	3.89	-0.26	1212.74	87.95	88.32	1212.36	-20.54
1	32	700	3.74	0.17	0.20	3.70	-0.34	1186.14	92.93	92.93	1186.13	-2.62
1	32	701	3.86	0.44	0.50	3.79	-0.47	1159.08	63.40	63.61	1158.87	15.31
1	32	702	4.30	0.84	0.93	4.21	-0.56	1122.51	-12.66	-11.69	1121.54	33.19
1	32	703	5.05	0.50	0.54	5.01	-0.44	1052.84	-190.07	-187.76	1050.53	53.48
1	32	704	9.34	7.76	9.13	7.97	0.53	978.01	-412.39	-409.62	975.24	61.96
1	32	705	16.78	-2.96	16.78	-2.96	0.25	540.18	-1114.22	-1109.81	535.77	85.32
1	32	706	2.05	-1.05	0.83	0.17	-1.52	252.01	-27.04	226.08	-1.11	81.01
1	32	707	8.47	-8.80	8.46	-8.79	0.42	605.50	-200.63	-169.81	574.68	-154.59
1	32	708	4.34	2.01	3.31	3.03	-1.16	921.81	6.02	44.92	882.90	-184.69
1	32	709	4.54	0.22	0.33	4.43	-0.68	1077.02	44.67	66.65	1055.04	-149.05
1	32	710	3.65	2.18e-02	6.51e-02	3.61	-0.39	1143.20	55.60	63.92	1134.88	-94.79
1	32	711	3.09	3.13e-02	6.42e-02	3.06	-0.32	1164.95	54.15	56.71	1162.39	-53.29
1	32	712	2.73	4.17e-02	6.87e-02	2.70	-0.27	1159.31	50.92	51.13	1159.10	-15.32
1	32	713	2.48	5.58e-02	7.03e-02	2.46	-0.19	1137.92	49.65	49.87	1137.71	15.15
1	32	714	2.34	6.47e-02	6.78e-02	2.33	-8.40e-02	1102.96	50.19	52.61	1100.53	50.48
1	32	715	2.33	4.70e-02	4.71e-02	2.33	1.67e-02	1046.85	49.35	57.94	1038.26	92.18
1	32	716	2.67	0.12	0.12	2.66	0.14	948.77	40.41	60.90	928.28	134.87
1	32	717	4.49	2.38	2.54	4.34	0.55	794.17	20.30	56.97	757.50	164.42
1	32	718	3.93	1.38	3.73	1.58	-0.68	442.01	-132.85	-91.28	400.44	148.89
1	32	719	11.20	-11.29	11.18	-11.27	-0.66	-230.06	-935.68	-834.49	-331.25	247.30
1	32	720	14.62	-4.29	0.42	9.91	-8.18	583.41	-957.71	-745.01	370.71	531.56
1	32	721	6.72	0.68	0.74	6.65	-0.60	1092.19	-449.43	-406.72	1049.48	253.02
1	32	722	5.40	0.63	0.70	5.33	0.59	1202.45	-161.33	-156.25	1197.38	83.02
1	32	723	4.63	-0.53	-0.51	4.61	0.34	1241.98	-26.72	-26.35	1241.62	21.43
1	32	724	4.06	-0.26	-0.26	4.06	1.97e-02	1240.15	59.09	59.11	1240.13	-3.57

1	32	725	3.69	5.07e-02	6.88e-02	3.68	-0.26	1220.02	99.05	99.22	1219.85	-13.69
1	32	726	3.58	0.24	0.33	3.49	-0.53	1194.70	103.10	103.41	1194.39	-18.36
1	32	727	3.70	0.45	0.65	3.50	-0.78	1165.37	75.94	76.46	1164.85	-23.80
1	32	728	4.01	0.37	0.68	3.70	-1.02	1122.81	1.12	2.33	1121.60	-36.93
1	32	729	4.44	-0.43	-1.85e-02	4.02	-1.36	1044.66	-156.71	-152.64	1040.60	-69.75
1	32	730	3.72	-2.58	-1.35	2.49	-2.49	854.30	-435.95	-407.13	825.49	-190.66
1	32	731	1.70	-6.55	-1.11	-3.74	3.91	473.08	-832.87	-712.90	353.11	-377.21
1	32	732	7.06	-3.49	6.66	-3.09	-2.02	-355.89	-722.19	-707.53	-370.55	-71.81
1	32	733	2.85	-9.97	-7.89	0.77	4.72	409.00	-520.35	-187.85	76.50	445.48
1	32	734	5.14	-2.61	-2.61	5.14	6.25e-02	668.49	-290.95	-49.56	427.10	416.33
1	32	735	5.65	-1.87	-1.64	5.42	1.29	1004.90	-171.28	-64.70	898.32	337.63
1	32	736	4.35	-0.20	6.82e-02	4.08	1.08	1146.68	-5.47	23.04	1118.17	178.98
1	32	737	3.72	-0.31	-0.19	3.61	0.67	1205.08	69.78	75.74	1199.12	82.07
1	32	738	3.33	0.30	0.30	3.32	0.16	1219.00	121.92	122.67	1218.25	28.61
1	32	739	3.14	0.43	0.45	3.12	-0.27	1208.75	141.32	141.33	1208.74	-3.53
1	32	740	3.13	0.40	0.57	2.96	-0.66	1185.84	139.88	140.60	1185.12	-27.53
1	32	741	3.18	0.20	0.55	2.83	-0.95	1152.60	113.86	116.56	1149.89	-52.91
1	32	742	3.23	6.45e-02	0.61	2.69	-1.20	1098.58	65.74	72.91	1091.42	-85.72
1	32	743	3.00	-3.95e-02	0.54	2.42	-1.19	1004.60	-23.18	-0.71	982.13	-150.29
1	32	744	1.93	-0.37	-0.37	1.93	-1.26e-02	846.09	-170.67	-103.54	778.96	-252.48
1	32	745	5.59	-0.80	-0.76	5.55	-0.48	552.18	-229.30	-72.28	395.16	-313.14
1	32	746	-2.79	-5.46	-4.27	-3.99	-1.33	188.19	-386.95	-158.03	-40.73	-281.52
1	32	747	1.94	-4.80	-3.75	0.89	2.44	706.99	-69.23	429.55	208.21	372.00
1	32	748	2.93	-3.76	-3.50	2.67	1.29	754.62	65.13	359.91	459.84	341.10
1	32	749	2.40	-1.77	-1.52	2.15	1.00	915.99	149.17	270.77	794.39	280.11
1	32	750	2.62	-0.65	-0.28	2.25	1.03	1066.73	182.19	219.26	1029.66	177.25
1	32	751	2.59	0.30	0.48	2.42	0.61	1152.19	198.56	207.10	1143.65	89.80
1	32	752	2.49	0.61	0.61	2.49	1.03e-02	1185.33	198.26	199.36	1184.22	33.04
1	32	753	2.53	0.68	0.74	2.46	-0.35	1185.27	194.48	194.48	1185.27	-2.68
1	32	754	2.59	0.56	0.80	2.35	-0.65	1164.78	190.97	191.93	1163.81	-30.64
1	32	755	2.56	0.21	0.63	2.14	-0.90	1126.38	175.09	178.81	1122.67	-59.30
1	32	756	2.42	0.17	0.77	1.82	-0.99	1061.56	164.52	175.07	1051.01	-96.69
1	32	757	2.38	0.81	1.83	1.36	-0.75	955.20	171.20	199.92	926.47	-147.29
1	32	758	1.44	0.66	0.70	1.40	-0.18	792.21	152.22	225.57	718.86	-203.87
1	32	759	1.69	-0.69	-0.62	1.62	-0.38	607.31	118.03	298.71	426.63	-236.13
1	32	760	1.65	-1.20	5.20e-02	0.41	-1.42	553.57	-27.32	398.39	127.85	-257.02
1	32	761	0.40	-4.23	-4.10	0.28	0.76	750.51	170.54	674.72	246.33	195.47
1	32	762	0.93	-3.23	-3.05	0.74	0.85	708.79	338.17	580.89	466.07	176.19
1	32	763	1.23	-1.59	-1.43	1.07	0.64	813.71	391.49	449.01	756.18	144.85
1	32	764	1.42	-0.37	-0.29	1.34	0.37	991.16	335.91	350.76	976.30	97.53
1	32	765	1.66	0.94	0.94	1.66	5.28e-03	1105.89	298.88	302.43	1102.35	53.35
1	32	766	2.02	1.09	1.22	1.89	-0.32	1156.28	268.19	268.79	1155.68	23.12
1	32	767	2.15	0.74	0.92	1.98	-0.47	1163.88	239.24	239.25	1163.88	2.11
1	32	768	2.21	0.67	0.96	1.92	-0.60	1144.55	236.70	237.01	1144.24	-16.63
1	32	769	2.07	0.40	0.76	1.71	-0.68	1101.75	232.51	234.03	1100.23	-36.32
1	32	770	1.81	0.37	0.80	1.39	-0.66	1027.99	250.07	254.73	1023.33	-60.01
1	32	771	1.89	0.74	1.56	1.06	-0.52	908.45	307.34	319.61	896.18	-84.99
1	32	772	1.09	0.71	0.89	0.90	-0.19	732.77	372.02	401.56	703.23	-98.91
1	32	773	0.83	-2.55e-04	4.65e-02	0.78	-0.19	590.95	381.77	517.85	454.87	-99.73
1	32	774	0.52	-0.66	-0.36	0.22	-0.51	681.74	150.30	655.51	176.53	-115.11
1	32	775	6.73e-02	-4.18	-4.18	6.62e-02	-6.92e-02	712.86	241.71	709.60	244.97	-39.04
1	32	776	0.39	-2.99	-2.99	0.39	6.06e-02	622.13	451.90	611.78	462.26	-40.69
1	32	777	0.70	-1.27	-1.26	0.70	-9.52e-02	748.38	476.10	476.80	747.67	-13.86
1	32	778	1.35	0.32	0.62	1.05	-0.46	964.25	394.37	394.44	964.19	-6.14
1	32	779	2.15	0.86	1.58	1.43	-0.64	1090.10	341.38	341.42	1090.06	-5.54
1	32	780	2.20	0.90	1.40	1.70	-0.64	1144.53	297.11	297.11	1144.53	-0.34
1	32	781	2.13	0.68	1.00	1.82	-0.60	1154.02	266.18	266.18	1154.02	1.63e-02
1	32	782	2.05	0.67	0.95	1.78	-0.55	1135.49	260.27	260.28	1135.48	-3.37
1	32	783	1.81	0.55	0.75	1.60	-0.46	1092.87	263.29	263.37	1092.79	-7.99
1	32	784	1.44	0.37	0.49	1.33	-0.33	1017.88	278.71	278.87	1017.72	-10.59
1	32	785	1.58	0.91	1.48	1.01	-0.24	893.56	352.37	352.39	893.54	-2.93
1	32	786	1.06	0.71	1.01	0.76	-0.13	707.36	437.74	439.39	705.71	21.04
1	32	787	0.53	0.25	0.26	0.52	-4.81e-02	559.64	460.68	558.39	461.94	11.09
1	32	788	8.56e-02	-0.64	-0.63	7.94e-02	-6.65e-02	693.64	182.04	693.63	182.05	-1.15
1	32	789	0.37	-4.36	-4.19	0.20	-0.87	638.88	96.16	524.36	210.67	-221.44
1	32	790	1.18	-2.91	-2.86	1.14	-0.43	661.61	242.53	456.94	447.20	-209.48
1	32	791	1.27	-1.30	-1.00	0.97	-0.82	828.11	297.53	359.00	766.64	-169.81
1	32	792	2.57	0.30	1.44	1.43	-1.14	1005.64	326.95	339.48	993.10	-91.38
1	32	793	2.49	0.13	0.83	1.80	-1.07	1110.80	293.35	296.45	1107.70	-50.18
1	32	794	2.49	0.47	1.00	1.96	-0.89	1152.65	280.14	280.79	1151.99	-23.86
1	32	795	2.31	0.50	0.82	1.99	-0.70	1157.25	263.56	263.66	1157.16	-9.11
1	32	796	2.13	0.61	0.81	1.93	-0.51	1138.93	259.71	259.72	1138.93	-0.37
1	32	797	1.88	0.65	0.72	1.81	-0.28	1100.94	256.77	256.86	1100.85	8.85
1	32	798	1.63	0.82	0.82	1.63	-1.49e-02	1034.90	265.65	266.57	1033.99	26.51
1	32	799	1.33	0.75	0.80	1.28	0.17	924.43	279.65	286.05	918.02	63.96
1	32	800	1.19	0.84	1.02	1.01	0.18	757.16	310.70	342.41	725.45	114.68

1	32	801	0.82	6.70e-02	0.12	0.78	0.18	581.69	291.05	422.65	450.09	144.67
1	32	802	0.17	-0.77	-0.64	4.04e-02	0.32	582.81	91.25	524.44	149.62	159.02
1	32	803	-2.24e-02	-5.04	-4.52	-0.53	-1.52	377.13	-222.38	55.69	99.06	-298.97
1	32	804	2.18	-2.33	-2.13	1.99	-0.91	591.63	-85.87	106.86	398.91	-305.66
1	32	805	3.39	-0.71	-5.61e-02	2.74	-1.50	908.96	62.21	129.39	841.78	-228.86
1	32	806	3.80	-0.39	0.47	2.95	-1.69	1070.64	182.00	196.57	1056.07	-112.87
1	32	807	3.31	-0.11	0.45	2.76	-1.26	1145.06	227.31	231.26	1141.11	-60.11
1	32	808	2.89	-1.01e-02	0.35	2.52	-0.96	1170.05	240.07	241.01	1169.11	-29.49
1	32	809	2.61	0.30	0.56	2.35	-0.73	1167.49	246.39	246.53	1167.35	-11.32
1	32	810	2.40	0.45	0.59	2.26	-0.51	1148.86	243.34	243.34	1148.86	0.40
1	32	811	2.27	0.63	0.67	2.24	-0.24	1116.91	235.62	235.81	1116.72	12.97
1	32	812	2.29	0.69	0.70	2.27	0.13	1063.96	218.09	219.59	1062.47	35.54
1	32	813	2.52	0.30	0.49	2.34	0.61	972.14	171.14	179.21	964.07	79.99
1	32	814	1.77	0.11	0.30	1.57	0.53	819.03	79.39	117.37	781.05	163.23
1	32	815	3.84	-0.52	5.97e-02	3.25	1.49	574.56	-17.67	119.37	437.52	249.76
1	32	816	-1.29	-2.47	-1.45	-2.31	-0.40	256.52	-159.35	72.94	24.23	206.50
1	32	817	13.21	-6.06	13.10	-5.96	1.43	-314.82	-682.09	-621.43	-375.48	-136.38
1	32	818	4.41	-3.04	-8.25e-02	1.45	3.65	574.30	-608.31	-461.38	427.38	-390.09
1	32	819	7.27	-0.67	0.68	5.92	-2.98	986.46	-108.86	-89.09	966.68	-145.83
1	32	820	5.12	-1.06	-0.80	4.86	-1.24	1106.34	79.32	82.54	1103.12	-57.40
1	32	821	3.93	-0.21	-5.79e-03	3.73	-0.89	1167.10	174.59	175.60	1166.09	-31.61
1	32	822	3.21	3.08e-02	0.22	3.02	-0.76	1182.56	213.77	214.03	1182.30	-15.94
1	32	823	2.85	0.17	0.35	2.67	-0.67	1175.24	227.24	227.28	1175.19	-6.47
1	32	824	2.68	0.25	0.38	2.55	-0.56	1156.47	225.39	225.39	1156.47	-1.63
1	32	825	2.68	0.25	0.32	2.61	-0.40	1128.66	209.05	209.07	1128.65	3.68
1	32	826	2.94	0.15	0.16	2.93	-0.17	1084.27	171.70	171.90	1084.07	13.49
1	32	827	3.61	2.21e-03	3.56e-02	3.58	0.35	1005.25	98.82	100.39	1003.68	37.68
1	32	828	5.61	-1.60	-6.77e-02	4.08	2.95	849.29	-73.27	-58.42	834.44	116.09
1	32	829	0.39	-4.05	0.34	-4.01	-0.46	554.12	-442.45	-363.37	475.04	269.36
1	32	830	7.32	-0.49	7.31	-0.47	-0.35	-380.17	-575.86	-572.75	-383.28	24.46
1	32	831	31.58	-13.32	31.47	-13.21	-2.17	803.92	-508.12	-508.11	803.91	-4.61
1	32	832	11.34	-1.39	-1.19	11.14	1.59	1062.42	-126.28	-125.72	1061.86	25.86
1	32	833	5.40	0.64	0.64	5.40	-0.16	1115.67	86.89	86.96	1115.60	-8.61
1	32	834	3.80	-0.21	-0.15	3.74	-0.49	1167.62	161.77	161.82	1167.57	-6.92
1	32	835	3.20	6.92e-02	0.18	3.09	-0.57	1182.94	206.08	206.11	1182.92	-4.87
1	32	836	2.88	0.15	0.29	2.74	-0.61	1174.78	220.50	220.50	1174.77	-1.48
1	32	837	2.76	0.18	0.33	2.62	-0.60	1156.08	218.65	218.66	1156.07	-2.51
1	32	838	2.80	0.15	0.27	2.68	-0.56	1129.02	201.68	201.71	1128.99	-5.42
1	32	839	3.10	0.25	0.34	3.00	-0.51	1086.57	165.70	165.88	1086.39	-13.02
1	32	840	3.76	0.21	0.23	3.74	-0.26	1008.91	81.32	81.42	1008.82	-9.40
1	32	841	9.46	0.70	0.87	9.29	-1.21	922.35	-71.68	-71.45	922.13	-14.93
1	32	842	16.21	8.23	16.21	8.23	0.11	584.10	-292.70	-292.70	584.10	1.04
1	32	843	6.47	-6.26	0.45	-0.24	-6.35	-432.56	-752.15	-690.47	-494.24	126.13
1	32	844	10.87	-3.04	6.00	1.83	-6.63	684.28	-633.73	-497.94	548.49	400.67
1	32	845	6.11	-2.65	5.55e-02	3.40	4.05	983.16	-153.31	-134.52	964.37	144.93
1	32	846	5.05	-0.31	2.40e-02	4.72	1.29	1106.16	75.52	77.61	1104.08	46.29
1	32	847	3.74	0.12	0.12	3.74	0.14	1164.99	163.07	163.30	1164.76	15.33
1	32	848	3.15	0.22	0.28	3.08	-0.43	1180.42	203.32	203.35	1180.40	-4.99
1	32	849	2.88	0.21	0.33	2.75	-0.56	1172.77	217.09	217.10	1172.76	-1.95
1	32	850	2.79	0.16	0.32	2.63	-0.62	1154.15	214.85	214.86	1154.14	-2.34
1	32	851	2.87	4.31e-02	0.22	2.70	-0.68	1127.51	196.88	197.44	1126.94	-22.93
1	32	852	3.15	-0.14	2.08e-02	2.99	-0.70	1084.20	156.81	157.87	1083.15	-31.27
1	32	853	3.83	-0.74	-0.57	3.66	-0.85	1005.70	70.10	71.42	1004.38	-35.10
1	32	854	5.25	-2.39	-0.18	3.03	-3.47	847.44	-100.92	-89.03	835.55	-105.54
1	32	855	3.78	-3.00	3.73	-2.95	0.60	582.44	-483.68	-426.56	525.33	-240.06
1	32	856	4.02	-3.35	-0.91	1.58	3.47	-541.23	-710.69	-710.63	-541.29	-3.22
1	32	857	1.62	-6.80	-5.61	0.43	2.94	353.91	-259.91	5.01	88.98	304.02
1	32	858	4.54	-1.31	-1.18	4.42	0.86	588.05	-129.29	78.23	380.53	325.26
1	32	859	2.95	0.17	0.32	2.79	0.64	905.61	5.09	61.10	849.60	217.48
1	32	860	3.59	0.22	0.92	2.89	1.36	1068.48	136.10	148.25	1056.33	105.75
1	32	861	3.02	0.55	0.66	2.91	0.50	1140.37	189.48	191.95	1137.90	48.39
1	32	862	2.77	0.49	0.52	2.74	-0.27	1164.17	211.44	211.59	1164.01	12.08
1	32	863	2.71	0.29	0.40	2.60	-0.50	1160.94	216.57	216.64	1160.87	-8.20
1	32	864	2.70	0.20	0.38	2.52	-0.65	1143.10	213.37	213.89	1142.58	-21.99
1	32	865	2.77	3.21e-02	0.30	2.50	-0.81	1113.61	200.03	201.72	1111.92	-39.29
1	32	866	2.82	-1.31e-02	0.27	2.53	-0.85	1063.58	173.62	177.43	1059.76	-58.18
1	32	867	2.94	0.24	0.66	2.52	-0.98	973.63	128.05	137.56	964.13	-89.14
1	32	868	1.82	0.19	0.29	1.72	-0.39	819.98	14.74	52.19	782.53	-169.57
1	32	869	5.23	6.36e-02	0.48	4.81	-1.41	566.64	-89.83	46.80	430.01	-266.51
1	32	870	-0.48	-3.05	-2.60	-0.93	-0.98	208.66	-188.17	17.98	2.50	-198.27
1	32	871	1.14	-3.10	-2.42	0.46	1.55	590.33	59.63	448.20	201.76	235.01
1	32	872	2.01	-2.08	-1.81	1.74	1.01	637.72	182.44	381.88	438.28	225.89
1	32	873	1.68	-2.93e-02	0.17	1.48	0.54	824.33	235.30	295.28	764.35	178.14
1	32	874	1.92	0.94	1.10	1.76	0.36	1003.97	242.88	254.27	992.58	92.40
1	32	875	2.14	0.90	0.90	2.14	2.51e-02	1104.12	234.23	236.36	1102.00	42.90
1	32	876	2.41	0.62	0.69	2.34	-0.35	1141.63	226.86	227.03	1141.47	12.18

1	32	877	2.51	0.40	0.54	2.38	-0.51	1144.10	220.19	220.25	1144.04	-7.57
1	32	878	2.53	0.28	0.47	2.33	-0.63	1126.38	215.87	216.15	1126.10	-15.98
1	32	879	2.50	0.21	0.48	2.23	-0.73	1092.34	212.74	214.56	1090.51	-40.05
1	32	880	2.35	0.24	0.56	2.03	-0.76	1031.28	212.60	216.60	1027.28	-57.07
1	32	881	2.01	0.19	0.57	1.63	-0.74	925.67	213.43	224.72	914.38	-88.95
1	32	882	1.73	0.20	0.51	1.42	-0.61	761.76	219.67	260.81	720.62	-143.56
1	32	883	1.62	-0.39	-9.58e-02	1.33	-0.70	547.54	217.76	329.81	435.48	-156.20
1	32	884	0.84	-1.26	-0.73	0.31	-0.92	495.25	57.70	419.35	133.61	-165.68
1	32	885	0.29	-2.78	-2.73	0.24	0.41	591.05	226.64	590.23	227.46	17.30
1	32	886	0.98	-1.40	-1.29	0.86	0.51	509.71	445.43	506.33	448.81	14.35
1	32	887	1.07	0.66	0.67	1.06	-4.57e-02	746.37	389.09	390.04	745.41	18.43
1	32	888	1.82	0.79	1.05	1.55	-0.45	964.36	304.61	305.56	963.42	24.98
1	32	889	2.22	0.71	0.93	2.00	-0.53	1080.33	256.67	256.89	1080.11	13.58
1	32	890	2.41	0.53	0.71	2.23	-0.55	1125.85	228.41	228.50	1125.76	8.83
1	32	891	2.45	0.38	0.54	2.29	-0.56	1131.37	212.23	212.26	1131.34	5.21
1	32	892	2.40	0.32	0.48	2.24	-0.56	1113.22	207.99	208.00	1113.21	2.42
1	32	893	2.26	0.36	0.52	2.09	-0.53	1074.44	214.13	214.27	1074.31	-10.69
1	32	894	1.99	0.48	0.63	1.84	-0.45	1005.54	233.71	234.24	1005.01	-20.18
1	32	895	1.57	0.54	0.68	1.43	-0.35	887.29	270.85	272.50	885.64	-31.88
1	32	896	1.16	0.30	0.41	1.06	-0.28	701.67	333.85	339.69	695.82	-46.00
1	32	897	0.88	-0.11	2.15e-02	0.75	-0.33	512.51	375.94	447.59	440.86	-68.20
1	32	898	0.22	-1.01	-0.93	0.14	-0.30	578.64	143.76	562.54	159.86	-82.11
1	32	899	1.12	-3.09	-3.07	1.11	-0.24	550.28	158.92	498.75	210.45	-132.34
1	32	900	0.72	-0.96	-0.91	0.67	-0.29	576.36	300.64	434.61	442.39	-137.80
1	32	901	2.45	0.25	0.80	1.90	-0.96	787.93	321.91	345.20	764.64	-101.54
1	32	902	2.85	0.41	0.95	2.31	-1.01	979.99	273.32	277.92	975.38	-56.87
1	32	903	2.79	0.36	0.72	2.43	-0.86	1082.64	230.26	231.35	1081.55	-30.48
1	32	904	2.67	0.32	0.54	2.45	-0.68	1124.53	200.39	200.61	1124.31	-14.31
1	32	905	2.54	0.27	0.41	2.39	-0.55	1129.05	182.59	182.60	1129.04	-2.50
1	32	906	2.39	0.28	0.38	2.28	-0.46	1110.26	178.78	178.86	1110.18	8.53
1	32	907	2.20	0.34	0.40	2.14	-0.33	1070.79	187.19	187.31	1070.67	10.25
1	32	908	1.98	0.49	0.50	1.97	-0.12	1002.35	209.56	210.22	1001.69	22.85
1	32	909	7.30	0.10	0.55	6.86	1.73	549.50	-850.58	-583.31	282.22	550.25
1	32	910	-1.63	-5.44	-1.90	-5.17	-0.98	-35.20	-1017.58	-813.48	-239.30	398.55
1	32	911	-2.64	-24.91	-15.85	-11.70	10.94	454.32	-406.49	-371.80	419.63	169.29
1	32	912	15.87	-38.70	15.83	-38.65	1.55	1216.37	-1309.89	-1309.82	1216.29	13.72
1	32	913	-0.77	-11.91	-2.44	-10.24	-3.98	966.60	-1853.29	-1852.99	966.31	-28.81
1	32	914	2.71	-14.85	-3.32	-8.82	-8.34	919.92	-1778.71	-1777.77	918.98	-50.31
1	32	915	9.93	-20.53	9.38	-19.98	-4.08	726.45	-789.62	-789.52	726.35	12.24
1	32	916	-1.63	-12.96	-7.91	-6.68	-5.63	282.06	-230.75	-222.51	273.82	-64.48
1	32	917	12.36	9.04	9.09	12.30	-0.44	210.29	-91.37	143.19	-24.27	-125.46
1	32	918	-5.86e-02	-4.90	-3.36	-1.61	-2.26	775.78	-122.46	748.92	-95.60	-152.98
1	32	919	-0.52	-3.89	-3.88	-0.53	0.20	1023.11	-67.63	1015.86	-60.38	-88.62
1	32	920	-7.83e-02	-3.20	-3.20	-7.89e-02	4.47e-02	1127.51	-53.29	1126.45	-52.23	-35.42
1	32	921	7.25e-02	-2.88	-2.88	7.14e-02	-5.80e-02	1136.52	-51.06	1135.75	-50.29	30.29
1	32	922	6.38e-02	-2.78	-2.77	5.89e-02	-0.12	1060.09	-55.18	1057.66	-52.74	52.09
1	32	923	6.25e-03	-2.87	-2.86	-1.07e-02	-0.22	886.72	-69.21	875.98	-58.48	100.75
1	32	924	-0.35	-2.55	-2.47	-0.43	-0.41	591.96	-100.29	563.95	-72.28	136.39
1	32	925	-1.21	-3.32	-3.12	-1.41	-0.62	134.72	-176.99	42.45	-84.73	142.29
1	32	926	28.08	9.02	18.55	18.56	-9.53	106.49	-2376.21	-2362.81	93.08	-181.93
1	32	927	1.80	-5.51	-4.37	0.66	-2.65	-65.46	-202.62	-202.48	-65.60	-4.46
1	32	928	29.02	-4.12	17.90	6.99	15.64	-298.99	-2145.68	-2113.52	-331.15	241.56
1	32	929	5.96	-5.72	-1.78	2.02	-5.52	-4.98	-656.10	-574.06	-87.02	-216.08
1	32	930	-0.59	-3.21	-3.21	-0.59	0.11	199.85	-139.75	138.19	-78.09	-130.91
1	32	931	-0.30	-2.50	-2.48	-0.31	0.20	653.72	-86.28	636.68	-69.25	-110.97
1	32	932	-6.36e-03	-2.82	-2.82	-8.97e-03	8.57e-02	883.78	-64.07	878.60	-58.89	-69.87
1	32	933	3.57e-02	-2.69	-2.69	3.56e-02	1.80e-02	993.08	-54.49	992.68	-54.08	-20.67
1	32	934	3.01e-02	-2.54	-2.54	2.96e-02	-3.42e-02	999.38	-52.86	999.29	-52.78	9.61
1	32	935	-2.19e-02	-2.34	-2.33	-2.87e-02	-0.12	907.99	-60.31	902.51	-54.83	72.62
1	32	936	-0.31	-1.82	-1.77	-0.36	-0.27	700.34	-81.03	682.79	-63.48	115.77
1	32	937	-1.20	-3.10	-3.00	-1.31	-0.44	307.29	-123.20	258.11	-74.02	136.94
1	32	938	-1.47	-6.50	-4.38	-3.60	2.48	-89.32	-584.44	-519.80	-153.96	166.81
1	32	939	22.10	7.36	13.11	16.36	-7.19	86.15	-1767.18	-1763.58	82.55	-81.66
1	32	940	22.17	-1.66	13.60	6.91	11.44	-230.59	-1543.49	-1522.69	-251.39	163.93
1	32	941	4.54	-4.81	-1.69	1.42	-4.41	21.06	-320.36	-220.99	-78.32	-155.09
1	32	942	-0.52	-1.29	-1.29	-0.52	-1.97e-02	426.90	-80.68	415.41	-69.19	-75.50
1	32	943	-0.26	-2.64	-2.64	-0.26	0.10	741.14	-65.71	739.55	-64.11	-35.89
1	32	944	-5.65e-02	-2.85	-2.85	-5.67e-02	2.56e-02	859.61	-60.32	859.06	-59.77	22.53
1	32	945	-0.19	-2.46	-2.46	-0.19	-6.33e-02	808.19	-62.31	806.92	-61.04	33.34
1	32	946	-0.15	-3.49	-3.49	-0.15	5.82e-02	523.12	-77.44	509.55	-63.87	89.25
1	32	947	5.55	-3.85	-2.21	3.92	3.56	178.52	-181.24	11.52	-14.24	179.42
1	32	948	12.78	-21.69	5.67	-14.58	-13.95	-536.89	-959.76	-917.91	-578.74	-126.27
1	32	949	-1.63	-3.86	-3.80	-1.70	0.37	497.46	-89.06	497.45	-89.06	1.07
1	32	950	23.76	-7.11	17.21	-0.56	12.62	-330.60	-1400.55	-1385.01	-346.14	128.00
1	32	951	6.16	-3.41	0.72	2.03	-4.74	114.80	-381.68	-222.40	-44.48	-231.75
1	32	952	-0.75	-2.07	-2.07	-0.75	3.13e-02	420.01	-103.01	374.55	-57.55	-147.34

1	32	953	-0.28	-1.03	-0.99	-0.32	0.17	807.59	-63.60	794.77	-50.78	-104.91
1	32	954	-4.54e-02	-1.71	-1.71	-4.78e-02	6.42e-02	975.33	-48.44	972.57	-45.68	-53.10
1	32	955	-2.36e-03	-1.95	-1.95	-2.36e-03	1.49e-03	1039.75	-44.25	1039.68	-44.18	8.70
1	32	956	-1.07e-02	-2.06	-2.06	-1.11e-02	-3.13e-02	1009.15	-46.89	1007.27	-45.01	44.53
1	32	957	-0.17	-1.86	-1.85	-0.18	-9.13e-02	880.32	-60.39	869.12	-49.19	102.02
1	32	958	-0.23	-0.35	-0.34	-0.24	3.17e-02	621.50	-87.84	588.75	-55.10	148.85
1	32	959	5.42	-4.30	-2.46	3.58	3.81	235.33	-237.01	12.98	-14.66	235.77
1	32	960	13.64	-19.76	7.24	-13.36	-13.15	-521.24	-894.94	-882.43	-533.75	-67.22
1	32	961	5.22	1.72	1.73	5.22	0.18	138.68	-43.39	138.35	-43.06	7.75
1	32	962	21.57	-8.11	15.33	-1.86	12.10	-323.09	-1329.07	-1298.45	-353.71	172.82
1	32	963	6.25	-1.92	2.04	2.29	-4.08	73.16	-266.15	-154.21	-38.78	-159.53
1	32	964	-0.60	-1.94	-1.93	-0.61	-8.82e-02	395.14	-72.46	382.67	-59.99	-75.35
1	32	965	-0.33	-1.67	-1.67	-0.34	5.83e-02	718.33	-58.21	717.53	-57.40	-25.00
1	32	966	-0.22	-2.41	-2.41	-0.22	-5.32e-02	750.59	-57.25	750.40	-57.05	-12.48
1	32	967	-0.56	-2.10	-2.10	-0.56	-6.53e-02	570.97	-65.96	566.88	-61.87	50.90
1	32	968	0.70	-3.62	-2.50	-0.42	1.89	140.33	-136.01	82.48	-78.16	112.43
1	32	969	11.12	-6.25	3.34	1.53	-8.64	-155.98	-944.41	-932.49	-167.89	-96.19
1	32	970	15.04	9.80	13.38	11.46	2.44	12.94	-1073.17	-1071.85	11.62	37.80
1	32	971	2.75	-2.87	0.78	-0.91	-2.68	33.93	-170.75	-39.59	-97.23	-98.20
1	32	972	-0.82	-2.54	-2.54	-0.82	-9.92e-02	447.12	-68.37	441.71	-62.97	-52.51
1	32	973	-0.53	-3.05	-3.05	-0.53	-6.17e-02	614.06	-68.81	609.37	-64.11	-56.41
1	32	974	-0.96	-6.89	-4.36	-3.48	2.93	-139.83	-915.72	-875.42	-180.13	172.17
1	32	975	9.51	-31.00	-24.91	3.42	-14.48	120.31	-490.76	-476.19	105.74	-93.24
1	32	976	8.78	-5.66	6.85	-3.73	4.92	422.37	-1023.72	-1023.32	421.97	-24.13
1	32	977	14.41	-10.88	-8.02	11.55	8.01	484.41	-2297.69	-2297.20	483.92	37.01
1	32	978	20.95	4.16	20.93	4.18	-0.52	413.64	-1786.60	-1786.47	413.51	-16.91
1	32	979	34.00	14.64	33.81	14.82	-1.87	415.07	-2498.66	-2498.65	415.06	-4.33
1	32	980	13.13	-7.58	-7.11	12.67	3.07	478.66	-2399.15	-2398.83	478.33	30.58
1	32	981	6.04	-16.25	-12.70	2.50	8.15	94.89	-297.07	-296.99	94.81	5.77
1	32	982	3.38	-9.84	-2.45	-4.01	-6.56	267.91	-269.26	99.85	-101.20	249.07
1	32	983	3.12	-4.00	-2.29	1.41	3.04	958.55	-104.38	858.87	-4.70	309.86
1	32	984	-0.62	-6.17	-6.17	-0.62	0.12	1220.86	-40.46	1189.19	-8.79	197.33
1	32	985	-0.25	-5.81	-5.80	-0.25	-7.73e-02	1326.49	-13.49	1319.80	-6.80	94.47
1	32	986	-0.21	-5.42	-5.42	-0.21	-5.17e-02	1331.60	-7.85	1331.58	-7.83	5.19
1	32	987	-0.18	-5.22	-5.22	-0.18	-2.29e-02	1258.03	-20.56	1245.62	-8.14	-125.37
1	32	988	-0.21	-5.10	-5.10	-0.21	-4.48e-02	1091.95	-53.52	1046.05	-7.62	-224.65
1	32	989	-0.20	-5.02	-5.00	-0.22	-0.32	807.24	-133.91	678.32	-4.98	-323.60
1	32	990	0.76	-2.35	-1.24	-0.36	-1.49	429.08	-398.91	45.31	-15.13	-412.89
1	32	991	14.78	-0.26	11.88	2.63	-5.93	202.91	-1252.39	-1096.41	46.92	-450.19
1	32	992	31.30	-28.93	13.79	-11.42	27.35	-402.63	-2964.68	-2954.50	-412.80	161.13
1	32	993	30.54	-45.58	13.53	-28.57	-31.70	-648.16	-2691.62	-2669.49	-670.29	-211.50
1	32	994	18.19	2.35	11.66	8.88	7.80	351.71	-915.05	-666.21	102.87	503.29
1	32	995	0.47	-3.25	-2.68	-9.64e-02	1.33	562.27	-270.04	293.10	-0.87	389.33
1	32	996	-0.19	-5.64	-5.63	-0.19	0.19	842.91	-100.68	745.68	-3.46	286.86
1	32	997	-0.22	-5.60	-5.60	-0.22	6.92e-03	1052.97	-39.39	1021.53	-7.95	182.64
1	32	998	-0.17	-5.63	-5.63	-0.17	1.29e-03	1142.45	-15.40	1136.90	-9.84	80.01
1	32	999	-0.16	-5.68	-5.68	-0.16	1.69e-02	1135.51	-12.33	1133.97	-10.79	-42.02
1	32	1000	-0.18	-5.63	-5.63	-0.18	-3.25e-03	1033.54	-26.84	1017.95	-11.25	-127.62
1	32	1001	-0.22	-5.56	-5.56	-0.23	-0.20	810.75	-70.69	750.98	-10.92	-221.63
1	32	1002	6.28e-02	-2.44	-1.90	-0.48	-1.03	465.41	-213.14	273.52	-21.26	-305.59
1	32	1003	10.80	-1.39	8.71	0.70	-4.60	156.53	-781.82	-629.31	4.02	-346.20
1	32	1004	23.83	-17.58	9.89	-3.64	19.57	-256.01	-2144.43	-2141.55	-258.90	73.72
1	32	1005	23.42	-29.00	10.86	-16.44	-22.38	-459.65	-1890.23	-1874.95	-474.93	-147.07
1	32	1006	12.86	0.98	8.04	5.81	5.84	276.69	-473.15	-250.76	54.30	342.49
1	32	1007	-1.10e-02	-4.06	-3.82	-0.25	0.96	586.48	-107.13	490.58	-11.24	239.41
1	32	1008	-0.25	-7.15	-7.14	-0.25	0.18	830.34	-36.61	806.93	-13.21	140.52
1	32	1009	-0.23	-7.52	-7.52	-0.23	5.43e-02	939.76	-17.76	937.82	-15.83	43.00
1	32	1010	-0.20	-7.71	-7.70	-0.20	-8.68e-02	882.51	-30.14	870.66	-18.29	-103.32
1	32	1011	0.39	-4.62	-4.48	0.24	-0.84	692.98	-66.92	640.74	-14.69	-192.26
1	32	1012	12.99	1.63	7.09	7.52	-5.67	364.56	-263.19	60.33	41.03	-313.73
1	32	1013	14.36	-39.92	6.48	-32.04	19.12	-576.66	-1163.20	-1158.29	-581.56	53.39
1	32	1014	-1.91	-10.32	-6.43	-5.79	4.19	90.54	-108.56	73.86	-91.88	-55.17
1	32	1015	27.51	-27.34	18.94	-18.76	-19.92	-458.46	-1656.82	-1654.62	-460.66	-51.26
1	32	1016	17.30	1.55	12.86	5.99	7.09	356.39	-457.35	-144.65	43.69	395.82
1	32	1017	0.26	-3.03	-2.62	-0.16	1.09	648.30	-138.18	524.78	-14.67	286.16
1	32	1018	-0.19	-6.98	-6.98	-0.20	0.18	866.00	-58.89	821.58	-14.47	197.75
1	32	1019	-0.17	-7.15	-7.15	-0.17	2.68e-02	1027.52	-27.13	1016.07	-15.68	109.29
1	32	1020	-0.14	-7.27	-7.27	-0.14	3.97e-02	1086.40	-16.81	1085.87	-16.28	24.13
1	32	1021	-0.15	-7.48	-7.48	-0.16	5.59e-02	1058.63	-23.89	1051.49	-16.75	-87.61
1	32	1022	-0.19	-7.71	-7.71	-0.19	-3.55e-02	930.97	-50.23	899.55	-18.81	-172.74
1	32	1023	0.24	-7.62	-7.55	0.17	-0.73	679.76	-110.99	584.91	-16.14	-256.92
1	32	1024	12.60	1.15	6.64	7.10	-5.72	424.22	-320.19	67.84	36.19	-371.87
1	32	1025	14.34	-37.86	6.71	-30.22	18.44	-564.78	-1117.48	-1117.39	-564.87	-6.97
1	32	1026	25.66	-24.35	18.21	-16.90	-17.81	-427.46	-1560.40	-1550.03	-437.83	-107.89
1	32	1027	15.63	1.54	11.74	5.43	6.30	267.86	-330.14	-96.87	34.58	291.69
1	32	1028	0.33	-3.19	-2.82	-4.24e-02	1.08	589.50	-76.38	532.05	-18.93	186.96

1	32	1029	-0.21	-6.75	-6.74	-0.22	0.21	769.30	-33.34	757.61	-21.66	96.14
1	32	1030	-0.26	-6.83	-6.83	-0.26	-1.08e-02	795.15	-25.24	794.88	-24.96	-15.02
1	32	1031	-0.25	-6.30	-6.27	-0.27	-0.37	600.33	-50.98	578.98	-29.64	-115.97
1	32	1032	3.41	-1.63	0.39	1.39	-2.47	212.74	-165.38	67.66	-20.29	-183.88
1	32	1033	9.52	-19.73	-1.02	-9.18	14.04	-249.83	-1048.68	-1034.50	-264.00	105.45
1	32	1034	16.44	1.01	12.04	5.42	-6.97	-115.77	-1150.60	-1149.19	-117.19	-38.28
1	32	1035	6.67	-1.40	4.61	0.66	3.52	149.69	-191.07	-19.25	-22.14	170.37
1	32	1036	-0.50	-3.70	-3.58	-0.62	0.62	544.29	-55.30	517.75	-28.76	123.31
1	32	1037	-0.43	-5.39	-5.39	-0.43	2.65e-02	667.00	-27.69	666.89	-27.58	-8.74
1	32	1038	9.72e-02	-4.35	-4.24	-5.20e-03	-0.67	550.43	-49.44	539.47	-38.49	-80.32
1	32	1039	8.72	3.20	3.34	8.58	-0.87	237.36	-353.42	130.18	-246.24	227.67
1	32	1040	8.35	-4.89	0.87	2.59	6.56	237.68	-395.24	151.21	-308.77	-217.38
1	32	1041	33.89	7.37	13.74	27.53	11.33	421.43	-42.73	178.99	199.71	231.85
1	32	1042	10.95	-1.26	-0.63	10.32	2.71	1061.25	-82.56	-33.24	1011.92	232.34
1	32	1043	4.21	-0.69	-0.69	4.21	-2.54e-02	1277.88	-38.38	-8.29	1247.80	196.70
1	32	1044	3.77	-0.17	-0.17	3.76	-7.18e-02	1337.34	-18.07	-3.98	1323.25	137.48
1	32	1045	3.41	-9.09e-02	-9.07e-02	3.41	2.27e-02	1332.04	-10.07	-5.48	1327.45	78.34
1	32	1046	3.04	-6.61e-02	-6.51e-02	3.04	5.71e-02	1303.26	-7.68	-7.03	1302.61	29.20
1	32	1047	2.76	-6.10e-02	-5.85e-02	2.76	8.38e-02	1264.71	-9.36	-9.07	1264.42	-19.24
1	32	1048	2.61	-6.34e-02	-5.88e-02	2.60	0.11	1217.62	-15.61	-12.33	1214.34	-63.51
1	32	1049	2.55	-9.36e-02	-8.79e-02	2.54	0.12	1147.13	-27.23	-18.00	1137.89	-103.72
1	32	1050	2.36	-0.63	-0.59	2.33	0.31	1024.20	-49.40	-29.41	1004.22	-145.12
1	32	1051	1.13	-4.53	-4.25	0.85	1.23	710.64	-123.52	-95.62	682.73	-149.99
1	32	1052	11.53	2.49	5.88	8.13	-4.38	294.76	56.91	140.33	211.34	-113.50
1	32	1053	9.86	-5.65	-5.01	9.22	-3.09	-191.10	-271.25	-271.16	-191.19	2.71
1	32	1054	0.21	-21.54	-18.32	-3.02	7.73	-10.55	-289.43	-255.22	-44.77	91.50
1	32	1055	5.36	-5.95	-5.18	4.59	-2.85	260.05	-84.50	225.26	-49.71	-103.80
1	32	1056	2.18	-4.11	-3.55	1.62	-1.80	227.65	-173.39	194.53	-140.27	110.39
1	32	1057	27.03	7.15	15.12	19.06	-9.74	355.52	119.99	167.96	307.54	-94.86
1	32	1058	7.24	-1.72	-1.59	7.10	-1.09	889.13	-67.22	-64.41	886.33	-51.71
1	32	1059	4.05	-0.26	-0.26	4.05	0.12	1074.77	-23.81	-22.09	1073.05	-43.42
1	32	1060	3.53	-4.09e-02	-3.92e-02	3.53	7.83e-02	1153.29	-16.65	-16.24	1152.88	-21.95
1	32	1061	3.09	1.69e-02	1.70e-02	3.09	-2.02e-02	1177.26	-13.28	-13.20	1177.19	-9.38
1	32	1062	2.70	3.57e-02	3.96e-02	2.69	-0.10	1171.20	-11.23	-11.22	1171.19	2.84
1	32	1063	2.41	3.33e-02	3.96e-02	2.41	-0.12	1148.57	-11.45	-11.37	1148.48	9.91
1	32	1064	2.25	3.55e-02	3.91e-02	2.25	-8.92e-02	1111.46	-13.91	-13.55	1111.09	20.29
1	32	1065	2.20	2.30e-03	5.77e-03	2.20	-8.73e-02	1049.81	-19.87	-18.73	1048.66	35.00
1	32	1066	2.12	-0.35	-0.30	2.07	-0.34	941.22	-30.59	-28.47	939.10	45.37
1	32	1067	0.95	-4.12	-3.70	0.53	-1.40	703.98	-87.72	-86.49	702.76	31.11
1	32	1068	12.65	3.02	8.83	6.84	4.71	326.09	106.50	116.92	315.68	46.68
1	32	1069	7.47	1.05	1.05	7.47	0.18	-134.66	-213.61	-200.35	-147.92	-29.51
1	32	1070	27.14	-50.03	26.99	-49.88	3.33	1612.96	-1745.54	-1745.53	1612.96	3.48
1	35	1	1.32	-5.39e-02	1.31	-4.70e-02	9.66e-02	-509.72	-1298.59	-879.67	-928.64	393.67
1	35	3	2.52	-4.18	0.58	-2.25	3.04	-319.14	-1226.72	-873.79	-672.07	-442.44
1	35	9	0.34	-7.71	-2.95	-4.42	-3.96	-1217.74	-2076.92	-2075.78	-1218.89	31.30
1	35	11	5.69	-6.10	-0.54	0.14	-5.89	-1371.00	-3258.85	-3253.79	-1376.06	97.54
1	35	12	4.41	-3.86	2.33	-1.78	-3.59	-1690.43	-2795.58	-2794.95	-1691.06	-26.39
1	35	13	9.26	-7.55	7.73	-6.03	4.83	-1430.12	-2967.65	-2953.51	-1444.26	-146.78
1	35	15	8.51	-7.31	7.30	-6.10	4.22	-1434.22	-2866.92	-2866.47	-1434.67	25.24
1	35	17	3.28	-5.82	-2.52	-2.32e-02	4.37	-1035.28	-2100.41	-2100.04	-1035.65	-19.91
1	35	21	-0.93	-7.97	-4.43	-4.48	3.52	-1711.80	-3075.18	-3068.07	-1718.92	-98.25
1	35	22	-0.94	-8.30	-5.57	-3.67	3.56	-2232.58	-4014.41	-4013.23	-2233.76	-45.77
1	35	23	4.26	-3.59	2.05	-1.38	-3.54	-1713.95	-2890.96	-2873.26	-1731.66	143.25
1	35	24	2.84	0.42	0.97	2.30	1.01	1027.67	255.27	257.44	1025.50	40.87
1	35	25	1.83	-0.73	0.54	0.56	-1.28	-445.43	-767.01	-625.40	-587.05	-159.64
1	35	27	0.51	-1.05	0.49	-1.03	-0.19	-317.60	-736.48	-632.18	-421.90	181.14
1	35	29	4.70	-2.95	1.78	-4.03e-02	-3.72	611.77	-182.21	433.07	-3.51	331.59
1	35	30	2.75	-3.82	-3.35	2.28	-1.68	760.64	-304.27	281.63	174.73	529.76
1	35	31	8.91	-1.78	7.60	-0.48	-3.49	287.51	-575.02	-339.72	52.20	384.17
1	35	32	3.64	-0.96	0.88	1.80	2.25	927.96	-48.11	318.22	561.63	472.61
1	35	33	7.40	4.34	4.50	7.24	0.68	875.47	-171.20	71.32	632.95	441.61
1	35	34	3.50	6.45e-03	0.42	3.08	1.13	1010.90	138.35	326.14	823.12	358.59
1	35	35	3.84	9.89e-02	0.14	3.80	0.41	1058.00	-48.54	117.21	892.25	394.89
1	35	36	2.92	-4.76e-02	9.40e-02	2.78	0.63	1057.48	225.03	316.02	966.49	259.74
1	35	37	3.04	-9.17e-02	-7.80e-02	3.02	0.21	1140.43	45.90	131.57	1054.76	293.99
1	35	38	2.63	4.20e-02	7.04e-02	2.60	0.27	1086.33	269.52	303.24	1052.61	162.50
1	35	39	2.82	-5.07e-02	-4.81e-02	2.82	8.57e-02	1177.60	99.37	132.83	1144.14	186.98
1	35	40	2.62	0.10	0.10	2.62	-4.55e-02	1113.16	290.92	296.88	1107.21	69.71
1	35	41	2.82	-2.92e-02	-2.89e-02	2.82	-2.88e-02	1205.56	126.40	132.47	1199.49	80.71
1	35	42	2.88	6.65e-02	0.11	2.84	-0.35	1145.70	299.78	301.06	1144.42	-32.90
1	35	43	3.02	-3.91e-02	-3.20e-02	3.01	-0.15	1240.32	134.61	135.76	1239.17	-35.68
1	35	44	3.41	-1.43e-02	0.12	3.28	-0.67	1186.57	298.44	318.20	1166.80	-131.01
1	35	45	3.44	-7.34e-02	-5.50e-02	3.42	-0.25	1285.94	124.21	143.59	1266.55	-148.79
1	35	46	4.28	-7.70e-02	0.23	3.97	-1.12	1228.26	282.83	346.64	1164.44	-237.19
1	35	47	4.21	-8.41e-02	-5.52e-02	4.18	-0.35	1334.04	92.54	155.37	1271.21	-272.13
1	35	48	5.47	0.30	1.01	4.76	-1.78	1258.06	242.54	383.70	1116.90	-351.32

1	35	49	5.56	0.26	0.35	5.46	-0.70	1360.76	35.93	167.65	1229.04	-396.43
1	35	50	7.03	2.27	3.54	5.76	-2.10	1281.12	151.94	422.19	1010.87	-481.80
1	35	51	6.81	3.30	5.30	4.81	-1.74	1322.34	-46.43	176.79	1099.12	-505.68
1	35	52	11.91	-0.40	5.15	6.36	6.12	1192.88	-105.08	396.54	691.25	-632.03
1	35	53	15.25	-9.74	13.96	-8.44	5.53	1115.98	-210.70	57.24	848.03	-532.62
1	35	54	8.29	-11.03	-4.20	1.46	9.24	866.52	-316.75	430.76	119.01	-570.73
1	35	55	0.91	-3.77	-3.32	0.46	-1.37	893.21	-82.88	710.69	99.64	380.58
1	35	56	2.86	1.11	2.84	1.13	-0.18	938.19	70.42	713.25	295.37	380.26
1	35	57	3.24	-0.16	0.98	2.09	1.61	948.27	207.50	591.49	564.28	370.13
1	35	58	2.78	-0.16	0.60	2.01	1.29	954.73	318.23	521.13	751.83	296.61
1	35	59	2.39	7.98e-02	0.41	2.06	0.81	978.40	377.23	469.04	886.59	216.25
1	35	60	2.15	0.30	0.37	2.08	0.36	1003.63	402.32	434.41	971.53	135.17
1	35	61	2.16	0.38	0.38	2.15	-7.66e-02	1031.51	411.91	417.35	1026.07	57.78
1	35	62	2.45	0.29	0.42	2.32	-0.51	1063.04	419.69	420.87	1061.86	-27.53
1	35	63	2.96	0.12	0.51	2.58	-0.97	1098.24	427.77	445.76	1080.25	-108.33
1	35	64	3.63	-6.59e-03	0.77	2.86	-1.49	1131.91	432.64	491.57	1072.98	-194.25
1	35	65	4.34	9.71e-02	1.39	3.04	-1.95	1161.94	417.57	555.62	1023.89	-289.32
1	35	66	4.45	1.19	2.33	3.31	-1.55	1184.33	345.09	630.86	898.55	-397.70
1	35	67	4.77	-5.66e-02	0.74	3.97	-1.79	1193.75	164.87	723.24	635.37	-512.56
1	35	68	2.11	-3.32	-3.32	2.11	-0.14	1147.18	-101.13	807.92	238.13	-555.34
1	35	69	-0.14	-0.95	-0.94	-0.15	-0.10	1063.19	71.13	968.07	166.25	292.09
1	35	70	0.31	-0.26	-0.21	0.25	0.17	993.75	214.02	888.06	319.71	266.90
1	35	71	1.25	-0.19	0.63	0.43	0.71	924.52	379.92	767.45	536.99	246.71
1	35	72	1.75	-5.33e-02	0.75	0.95	0.90	886.40	478.88	661.01	704.27	202.61
1	35	73	1.68	0.24	0.66	1.27	0.65	895.18	506.73	578.00	823.91	150.35
1	35	74	1.52	0.58	0.66	1.44	0.27	928.22	501.06	523.23	906.04	94.77
1	35	75	1.58	0.69	0.71	1.55	-0.15	963.75	493.35	496.40	960.70	37.75
1	35	76	1.94	0.51	0.81	1.64	-0.58	996.22	497.21	498.01	995.42	-19.94
1	35	77	2.40	0.25	0.96	1.69	-1.01	1022.75	516.79	528.69	1010.85	-76.67
1	35	78	2.82	9.27e-03	1.21	1.62	-1.39	1040.34	546.10	587.71	998.73	-137.23
1	35	79	3.05	-8.92e-02	1.56	1.40	-1.57	1053.95	561.63	673.90	941.68	-206.56
1	35	80	2.64	-0.12	1.48	1.04	-1.36	1080.80	515.28	785.46	810.63	-282.48
1	35	81	1.25	-0.34	9.52e-02	0.81	-0.71	1141.26	360.31	920.90	580.67	-351.47
1	35	82	0.18	-2.28	-2.27	0.17	-0.15	1254.74	94.11	1092.59	256.26	-402.37
1	35	83	-7.56e-02	-1.52	-1.51	-8.56e-02	-0.12	1085.00	162.48	1065.47	182.01	132.81
1	35	84	-8.83e-03	-0.58	-0.58	-1.46e-02	5.74e-02	1002.99	306.09	981.80	327.27	119.65
1	35	85	0.58	-0.14	0.37	6.04e-02	0.32	886.47	490.13	852.46	524.14	111.00
1	35	86	0.92	6.54e-02	0.60	0.38	0.41	795.70	607.44	728.74	674.40	90.12
1	35	87	1.04	0.41	0.76	0.70	0.31	809.38	607.25	631.58	785.06	65.76
1	35	88	0.95	0.85	0.89	0.91	4.93e-02	869.63	559.46	564.95	864.14	40.88
1	35	89	1.29	0.74	1.01	1.03	-0.27	919.23	531.28	531.80	918.71	14.12
1	35	90	1.70	0.48	1.14	1.04	-0.61	953.28	530.81	531.11	952.99	-11.16
1	35	91	2.05	0.20	1.30	0.95	-0.91	969.46	561.76	565.34	965.88	-38.05
1	35	92	2.27	-8.12e-02	1.45	0.73	-1.12	963.11	618.17	632.39	948.89	-68.56
1	35	93	2.20	-0.32	1.49	0.39	-1.14	939.78	680.39	733.66	886.51	-104.79
1	35	94	1.28	-0.49	0.76	3.84e-02	-0.81	958.96	661.54	861.15	759.35	-139.73
1	35	95	-7.03e-02	-0.67	-0.53	-0.21	-0.25	1078.35	496.97	1023.34	551.98	-170.16
1	35	96	-0.18	-2.70	-2.69	-0.20	0.18	1254.20	218.49	1215.70	256.99	-195.94
1	35	97	-6.72e-02	-1.63	-1.63	-6.74e-02	-1.74e-02	1075.86	182.22	1073.60	184.48	-44.82
1	35	98	-5.16e-02	-0.82	-0.81	-5.97e-02	7.88e-02	990.35	324.41	987.98	326.78	-39.65
1	35	99	0.48	-8.00e-02	0.43	-3.20e-02	0.16	863.70	513.20	860.84	516.06	-31.53
1	35	100	0.38	0.15	0.37	0.16	4.60e-02	736.39	650.05	725.58	660.85	-28.57
1	35	101	0.79	0.36	0.76	0.40	-0.11	774.21	621.85	626.34	769.72	-25.75
1	35	102	1.14	0.47	1.01	0.60	-0.27	850.16	555.28	556.42	849.01	-18.34
1	35	103	1.47	0.43	1.19	0.71	-0.46	904.89	521.79	521.98	904.70	-8.54
1	35	104	1.75	0.30	1.36	0.69	-0.65	939.46	519.96	519.97	939.46	-1.48
1	35	105	1.96	9.64e-02	1.51	0.55	-0.80	951.22	555.27	555.31	951.18	3.86
1	35	106	2.00	-0.15	1.56	0.29	-0.87	931.21	623.92	624.04	931.10	6.01
1	35	107	1.72	-0.31	1.43	-2.07e-02	-0.71	866.07	730.27	730.92	865.41	9.40
1	35	108	0.22	-0.41	0.10	-0.30	-0.24	858.85	738.56	858.03	739.37	9.86
1	35	109	-0.38	-1.03	-1.01	-0.40	0.11	1030.34	540.50	1030.29	540.55	5.02
1	35	110	-0.24	-2.93	-2.91	-0.25	0.20	1226.54	254.72	1226.49	254.76	6.80
1	35	111	-3.94e-02	-1.72	-1.72	-4.51e-02	9.77e-02	1033.59	143.19	996.55	180.23	-177.79
1	35	112	1.63e-02	-0.94	-0.89	-3.19e-02	0.21	952.18	283.13	914.47	320.83	-154.29
1	35	113	0.50	-0.13	0.36	4.15e-03	0.26	854.77	449.29	791.10	512.96	-147.53
1	35	114	0.75	0.11	0.70	0.15	0.17	794.53	535.27	666.22	663.58	-129.62
1	35	115	0.72	0.37	0.71	0.38	5.75e-02	820.18	520.94	562.79	778.32	-103.79
1	35	116	1.02	0.58	1.02	0.58	3.44e-02	873.36	486.63	498.30	861.69	-66.15
1	35	117	1.24	0.70	1.24	0.70	1.09e-02	921.89	467.00	468.68	920.21	-27.61
1	35	118	1.43	0.67	1.43	0.67	-1.05e-02	957.10	466.36	466.60	956.86	10.92
1	35	119	1.58	0.52	1.58	0.52	-2.91e-02	974.84	494.45	499.70	969.59	49.98
1	35	120	1.59	0.28	1.59	0.28	-3.69e-02	968.54	542.60	562.56	948.58	90.02
1	35	121	0.90	-7.30e-03	0.89	4.38e-03	0.10	937.50	594.27	652.74	879.02	129.04
1	35	122	0.19	-0.56	-0.17	-0.21	0.37	946.59	580.82	780.69	746.71	182.09
1	35	123	-0.13	-1.46	-1.29	-0.30	0.44	1043.04	446.05	947.20	541.88	219.16
1	35	124	-0.18	-2.95	-2.92	-0.20	0.27	1207.00	187.20	1140.50	253.70	251.79

1	35	125	-2.38e-03	-1.66	-1.65	-1.71e-02	0.16	964.50	27.22	824.64	167.08	-333.96
1	35	126	0.16	-0.90	-0.80	6.59e-02	0.30	899.10	161.46	753.92	306.65	-293.29
1	35	127	0.63	-4.94e-02	0.42	0.16	0.32	855.56	298.51	640.70	513.37	-271.15
1	35	128	1.35	0.25	1.26	0.34	0.31	850.55	371.58	539.05	683.08	-228.40
1	35	129	0.96	0.29	0.63	0.62	0.33	878.72	373.61	441.52	810.81	-172.31
1	35	130	1.34	0.46	0.92	0.88	0.44	923.50	372.61	395.11	901.01	-109.01
1	35	131	1.66	0.49	1.14	1.01	0.58	966.21	373.73	377.36	962.58	-46.20
1	35	132	1.94	0.43	1.34	1.02	0.74	1003.40	376.65	377.19	1002.86	18.43
1	35	133	2.12	0.28	1.53	0.87	0.86	1031.67	391.01	403.14	1019.54	87.34
1	35	134	2.14	7.92e-02	1.58	0.63	0.91	1047.10	404.51	450.26	1001.36	165.23
1	35	135	1.26	-0.54	0.34	0.38	0.90	1044.55	391.35	507.83	928.07	250.03
1	35	136	0.83	-1.00	-0.36	0.19	0.88	1042.64	356.29	618.08	780.85	333.39
1	35	137	0.42	-1.85	-1.48	5.51e-02	0.84	1074.56	243.50	764.19	553.87	402.00
1	35	138	5.16e-02	-3.02	-2.93	-4.63e-02	0.54	1174.28	19.52	941.93	251.87	462.95
1	35	139	4.79e-02	-1.24	-1.24	4.71e-02	3.20e-02	839.52	-175.20	531.02	133.30	-466.76
1	35	140	0.43	-0.68	-0.62	0.38	0.23	802.67	-53.71	474.74	274.22	-416.29
1	35	141	0.71	0.31	0.62	0.40	0.17	841.75	56.90	383.90	514.75	-386.93
1	35	142	1.48	0.67	1.48	0.67	1.71e-02	895.19	147.19	322.08	720.31	-316.59
1	35	143	1.10	0.51	0.51	1.10	3.15e-02	943.02	189.49	266.83	865.68	-228.69
1	35	144	1.53	0.63	0.70	1.46	0.25	989.24	229.45	256.70	962.00	-141.27
1	35	145	1.95	0.58	0.87	1.66	0.56	1030.61	253.31	257.95	1025.98	-59.83
1	35	146	2.35	0.47	1.08	1.73	0.88	1070.10	263.55	264.03	1069.63	19.63
1	35	147	2.69	0.30	1.33	1.66	1.18	1107.73	263.45	276.58	1094.61	104.45
1	35	148	2.86	0.15	1.54	1.47	1.35	1137.16	244.42	293.79	1087.80	204.04
1	35	149	2.16	-0.64	0.30	1.22	1.32	1144.29	177.94	303.67	1018.56	325.10
1	35	150	1.80	-1.16	-0.47	1.11	1.25	1126.25	89.07	364.63	850.69	458.12
1	35	151	1.50	-2.21	-1.61	0.89	1.37	1092.75	-53.64	463.37	575.74	570.43
1	35	152	0.76	-3.23	-2.84	0.37	1.18	1103.06	-265.95	595.12	241.98	661.34
1	35	153	0.23	-1.41	-1.00	-0.19	-0.71	581.64	-520.48	20.23	40.93	-550.96
1	35	154	1.39	-0.76	-0.74	1.37	0.20	619.86	-413.94	9.92	195.99	-508.46
1	35	155	0.93	0.79	0.86	0.86	-6.81e-02	798.90	-287.90	-11.96	522.96	-473.02
1	35	156	1.69	0.58	0.93	1.34	-0.51	924.49	-126.91	14.28	783.30	-358.48
1	35	157	2.17	0.75	0.85	2.06	-0.37	1005.46	5.32	67.82	942.96	-242.08
1	35	158	2.38	0.64	0.64	2.38	3.86e-02	1059.27	88.31	109.90	1037.67	-143.19
1	35	159	2.70	0.46	0.57	2.59	0.49	1101.56	132.07	135.82	1097.81	-60.18
1	35	160	3.11	0.25	0.61	2.75	0.95	1143.33	146.02	146.30	1143.05	16.63
1	35	161	3.55	-1.81e-02	0.69	2.83	1.42	1187.24	128.66	137.93	1177.97	98.62
1	35	162	3.85	-0.21	0.92	2.72	1.82	1226.81	73.79	109.10	1191.51	198.65
1	35	163	3.69	-7.42e-02	1.16	2.46	1.77	1243.78	-34.15	60.66	1148.97	334.92
1	35	164	3.10	-1.14	-0.50	2.47	1.52	1198.50	-223.05	4.75	970.70	521.48
1	35	165	3.45	-2.81	-2.04	2.69	2.05	1075.30	-452.04	8.25	615.01	700.82
1	35	166	2.31	-3.84	-2.48	0.95	2.55	918.90	-693.42	27.96	197.52	801.69
1	35	167	-3.86	-7.69	-7.64	-3.91	-0.45	-43.75	-1057.49	-857.28	-243.96	-403.58
1	35	168	6.53	3.69	4.36	5.86	1.21	322.06	-848.01	-586.96	61.00	-487.14
1	35	169	1.81	-0.87	-0.78	1.72	-0.49	752.82	-742.70	-585.62	595.74	-458.51
1	35	170	4.12	0.24	0.85	3.50	-1.42	944.03	-375.60	-306.05	874.47	-294.87
1	35	171	3.62	0.45	0.59	3.48	-0.65	1056.74	-154.50	-125.84	1028.07	-184.12
1	35	172	3.45	0.25	0.25	3.45	-6.81e-02	1117.99	-31.04	-21.39	1108.34	-104.88
1	35	173	3.62	7.22e-02	0.12	3.57	0.41	1161.56	32.63	34.34	1159.84	-43.93
1	35	174	4.04	-7.44e-02	0.11	3.86	0.85	1205.03	51.55	51.66	1204.93	10.85
1	35	175	4.70	-0.34	6.07e-02	4.29	1.37	1252.53	23.11	26.86	1248.78	67.76
1	35	176	5.53	-0.61	0.16	4.76	2.03	1298.40	-59.43	-45.10	1284.07	138.75
1	35	177	6.16	-0.29	1.17	4.71	2.70	1328.99	-212.11	-173.55	1290.43	240.71
1	35	178	4.44	1.60	1.71	4.34	0.54	1288.70	-516.37	-410.93	1183.27	423.32
1	35	179	4.74	1.54	2.03	4.25	1.15	954.03	180.56	211.09	923.51	150.59
1	35	180	17.32	0.43	16.48	1.27	-3.66	-1184.60	-2077.95	-2024.73	-1237.82	211.45
1	35	181	-6.26	-13.87	-6.36	-13.76	0.88	28.57	-1931.41	-1752.19	-150.65	-564.93
1	35	182	10.56	-7.52	0.22	2.82	-8.95	635.51	-1022.73	-979.77	592.55	-263.41
1	35	183	6.16	-0.22	5.19e-03	5.93	-1.18	962.97	-489.10	-481.66	955.53	-103.66
1	35	184	4.68	8.17e-02	9.92e-02	4.66	-0.28	1083.72	-232.61	-229.95	1081.06	-59.11
1	35	185	4.24	-4.56e-02	-3.87e-02	4.23	0.17	1147.90	-90.47	-89.61	1147.03	-32.78
1	35	186	4.27	-0.20	-0.17	4.23	0.41	1192.72	-17.73	-17.57	1192.56	-14.14
1	35	187	4.70	-0.32	-0.25	4.63	0.59	1236.82	3.48	3.49	1236.81	2.54
1	35	188	5.57	-0.65	-0.53	5.45	0.85	1285.34	-29.99	-29.71	1285.06	19.18
1	35	189	7.12	-0.97	-0.74	6.89	1.34	1333.01	-122.38	-121.30	1331.92	39.81
1	35	190	9.48	-2.12	-1.45	8.82	2.69	1358.86	-310.77	-307.65	1355.73	72.19
1	35	191	12.10	-2.61	1.85	7.64	6.76	1371.69	-616.34	-598.51	1353.85	187.46
1	35	192	16.17	-2.87	14.54	-1.24	-5.32	1313.07	-1281.35	-1214.01	1245.73	412.51
1	35	193	23.27	-12.10	14.47	-3.29	-15.29	-702.75	-2544.56	-2418.15	-829.16	465.66
1	35	194	38.71	12.58	38.60	12.68	-1.65	-98.49	-1871.49	-1863.80	-106.17	116.48
1	35	195	24.31	1.88	1.99	24.20	-1.57	822.58	-908.04	-908.03	822.57	4.07
1	35	196	5.64	0.80	0.82	5.62	0.35	954.00	-490.15	-490.11	953.95	8.14
1	35	197	4.80	0.16	0.16	4.80	8.41e-02	1086.19	-233.62	-233.62	1086.19	-1.58
1	35	198	4.29	-0.12	-0.12	4.29	9.37e-02	1148.80	-94.12	-94.11	1148.80	-1.60
1	35	199	4.32	-0.24	-0.23	4.32	0.15	1194.60	-20.96	-20.95	1194.60	-3.21
1	35	200	4.74	-0.32	-0.32	4.74	0.17	1238.78	1.13	1.13	1238.78	-0.31

1	35	201	5.63	-0.59	-0.59	5.62	0.22	1287.63	-29.44	-29.44	1287.63	-1.67
1	35	202	7.05	-0.65	-0.64	7.04	0.26	1332.51	-115.37	-115.31	1332.46	-9.27
1	35	203	10.40	0.92	0.95	10.38	0.49	1374.42	-259.36	-259.29	1374.35	-10.39
1	35	204	21.47	-7.86e-02	0.14	21.25	2.18	1474.28	-570.91	-570.90	1474.28	-3.38
1	35	205	57.06	-8.66	57.02	-8.61	1.70	1586.44	-623.60	-620.77	1583.61	-79.03
1	35	206	6.28	-6.81	-0.36	-0.16	-6.54	-1740.36	-4330.19	-4328.88	-1741.68	58.28
1	35	207	17.09	-6.83	14.08	-3.82	7.93	-830.11	-1378.40	-1361.31	-847.20	-95.30
1	35	208	-2.32	-10.30	-3.28	-9.33	-2.60	99.62	-1657.94	-1420.47	-137.85	600.81
1	35	209	9.53	-7.38	-0.52	2.68	8.30	655.63	-959.97	-886.34	581.99	336.97
1	35	210	6.38	-0.17	0.11	6.10	1.34	958.89	-458.45	-441.92	942.36	152.15
1	35	211	4.82	2.78e-02	8.57e-02	4.76	0.52	1079.08	-217.80	-212.00	1073.28	86.53
1	35	212	4.31	-7.23e-02	-6.73e-02	4.31	0.15	1143.36	-82.86	-81.05	1141.56	47.00
1	35	213	4.31	-0.20	-0.20	4.31	-6.32e-02	1188.38	-13.04	-12.78	1188.13	17.58
1	35	214	4.75	-0.32	-0.30	4.73	-0.29	1232.49	7.80	7.84	1232.44	-7.32
1	35	215	5.67	-0.62	-0.58	5.62	-0.53	1280.75	-23.06	-22.15	1279.84	-34.59
1	35	216	7.32	-0.97	-0.87	7.22	-0.92	1327.13	-110.43	-107.15	1323.84	-68.64
1	35	217	10.09	-1.66	-1.33	9.76	-1.95	1354.35	-279.56	-271.16	1345.94	-116.89
1	35	218	13.81	-1.97	1.43	10.42	-6.48	1388.61	-551.57	-515.89	1352.93	-260.66
1	35	219	22.61	2.14	19.26	5.48	7.57	1271.54	-1144.92	-1013.98	1140.60	-547.05
1	35	220	15.31	-9.10	11.70	-5.48	8.67	-299.83	-1827.47	-1652.17	-475.13	-486.89
1	35	221	-4.62	-10.47	-10.19	-4.90	-1.25	70.09	-895.54	-633.57	-191.88	429.35
1	35	222	7.93	2.28	6.22	3.99	-2.59	386.26	-659.62	-398.09	124.73	452.92
1	35	223	3.91	-0.29	1.05	2.57	1.96	773.97	-606.33	-429.51	597.14	461.31
1	35	224	4.69	-0.27	0.78	3.63	2.03	932.71	-313.14	-233.04	852.61	305.58
1	35	225	3.99	0.17	0.53	3.62	1.12	1043.18	-122.25	-88.41	1009.34	195.70
1	35	226	3.66	0.35	0.42	3.59	0.49	1105.53	-9.56	1.85	1094.12	112.21
1	35	227	3.74	4.16e-02	4.25e-02	3.74	-5.82e-02	1149.76	42.09	44.01	1147.85	46.01
1	35	228	4.18	-6.48e-02	1.92e-02	4.09	-0.59	1193.10	60.05	60.19	1192.95	-12.71
1	35	229	4.93	-0.48	-0.22	4.67	-1.16	1239.16	34.06	38.74	1234.47	-74.97
1	35	230	5.99	-0.85	-0.26	5.41	-1.91	1282.46	-36.96	-19.72	1265.22	-149.86
1	35	231	7.16	-0.23	1.16	5.76	-2.89	1314.03	-152.22	-106.44	1268.25	-255.02
1	35	232	6.34	1.69	2.44	5.58	-1.71	1290.02	-407.24	-285.49	1168.27	-437.97
1	35	233	9.05	-3.77	-2.54	7.82	-3.78	1049.21	-780.97	-443.98	712.23	-709.35
1	35	234	-1.59	-4.53	-2.34	-3.78	-1.28	589.45	-1141.54	-637.29	85.20	-786.50
1	35	235	8.82e-02	-1.10	-0.69	-0.33	0.57	629.31	-397.86	162.07	69.38	511.49
1	35	236	1.04	3.60e-02	0.20	0.87	-0.37	658.40	-277.56	151.47	229.36	466.36
1	35	237	2.36	0.59	2.24	0.71	0.43	807.61	-153.74	121.96	531.91	434.78
1	35	238	2.05	-0.41	0.21	1.43	1.06	904.04	-82.75	48.68	772.61	335.29
1	35	239	2.59	0.40	0.82	2.17	0.86	986.86	35.36	95.77	926.46	232.01
1	35	240	2.60	0.48	0.56	2.52	0.40	1043.22	99.96	120.85	1022.33	138.80
1	35	241	2.78	0.56	0.57	2.77	-0.16	1087.60	136.57	140.18	1083.98	58.53
1	35	242	3.21	0.27	0.48	3.00	-0.76	1129.34	146.97	147.21	1129.10	-15.39
1	35	243	3.74	-7.13e-02	0.47	3.20	-1.34	1170.62	136.16	144.71	1162.06	-93.69
1	35	244	4.28	-0.14	0.95	3.19	-1.90	1206.44	103.53	136.59	1173.37	-188.07
1	35	245	4.53	0.21	1.85	2.88	-2.10	1223.49	33.29	124.65	1132.13	-316.84
1	35	246	3.45	-0.96	-3.73e-02	2.53	-1.80	1185.86	-127.37	91.53	966.96	-489.44
1	35	247	2.89	-2.05	-1.49	2.33	-1.57	1075.08	-334.55	107.86	632.66	-654.15
1	35	248	1.42	-3.56	-2.80	0.66	-1.79	956.61	-557.51	177.45	221.64	-756.74
1	35	249	3.55e-02	-0.74	-0.73	2.66e-02	-8.27e-02	840.99	-93.01	601.33	146.64	407.92
1	35	250	0.41	-4.32e-03	0.16	0.24	-0.20	792.54	30.28	532.81	290.01	361.28
1	35	251	1.66	0.24	1.66	0.25	6.79e-02	814.56	134.32	425.83	523.04	336.63
1	35	252	2.19	0.55	2.11	0.64	0.37	863.46	196.35	342.61	717.20	276.00
1	35	253	1.29	0.16	0.31	1.14	0.39	920.06	196.48	259.94	856.59	204.68
1	35	254	1.57	0.96	1.00	1.54	0.15	974.00	228.37	250.84	951.53	127.47
1	35	255	1.86	0.77	0.85	1.78	-0.28	1019.64	237.45	241.33	1015.76	54.96
1	35	256	2.33	0.49	0.92	1.90	-0.78	1059.38	243.14	243.42	1059.09	-15.24
1	35	257	2.73	0.21	1.06	1.88	-1.19	1092.92	250.29	260.03	1083.18	-90.08
1	35	258	3.05	9.96e-02	1.47	1.68	-1.47	1113.97	254.03	291.94	1076.06	-176.53
1	35	259	2.34	-0.82	0.20	1.32	-1.48	1113.04	211.67	314.42	1010.29	-286.46
1	35	260	1.68	-1.19	-0.51	1.00	-1.22	1088.43	151.90	389.17	851.16	-407.32
1	35	261	1.01	-2.02	-1.67	0.66	-0.97	1054.65	32.17	499.84	586.98	-509.38
1	35	262	0.36	-3.28	-3.15	0.23	-0.68	1074.71	-173.78	647.64	253.30	-592.29
1	35	263	-1.80e-02	-1.14	-1.12	-3.92e-02	-0.15	925.60	79.35	831.47	173.49	266.08
1	35	264	0.14	-0.27	-0.13	8.33e-04	-0.19	853.19	214.97	753.23	314.93	231.95
1	35	265	1.19	6.04e-02	1.18	7.21e-02	-0.11	798.15	351.13	630.36	518.91	216.45
1	35	266	1.82	0.28	1.82	0.28	-7.71e-03	798.53	399.21	513.68	684.06	180.57
1	35	267	0.60	0.32	0.32	0.60	1.84e-02	850.59	349.51	391.06	809.05	138.17
1	35	268	0.93	0.68	0.72	0.89	-8.97e-02	912.72	327.87	342.10	898.48	90.12
1	35	269	1.42	0.67	1.04	1.06	-0.37	962.83	323.89	326.28	960.43	39.05
1	35	270	1.83	0.41	1.18	1.06	-0.71	1000.04	322.87	323.08	999.82	-12.09
1	35	271	2.29	0.28	1.66	0.91	-0.93	1022.01	352.66	359.41	1015.26	-66.88
1	35	272	2.47	7.06e-02	1.87	0.67	-1.04	1024.41	388.53	415.94	996.99	-129.16
1	35	273	1.17	-0.80	-1.98e-02	0.39	-0.97	1003.59	387.51	465.28	925.82	-204.61
1	35	274	0.56	-1.19	-0.77	0.14	-0.75	973.78	387.67	578.48	782.96	-274.64
1	35	275	8.40e-02	-2.05	-1.94	-1.92e-02	-0.46	985.67	301.15	726.48	560.33	-332.03
1	35	276	-7.52e-02	-3.44	-3.43	-8.25e-02	-0.16	1088.25	80.68	911.38	257.56	-383.31

1	35	277	-4.48e-02	-1.32	-1.31	-5.53e-02	-0.11	949.95	167.89	935.54	182.30	105.19
1	35	278	-4.47e-03	-0.44	-0.39	-5.71e-02	-0.14	867.30	308.79	852.22	323.87	90.53
1	35	279	0.89	-6.79e-02	0.87	-4.59e-02	-0.14	754.43	484.89	723.24	516.09	86.23
1	35	280	1.63	6.37e-02	1.63	7.11e-02	-0.11	716.31	550.30	599.84	666.77	75.96
1	35	281	0.75	0.20	0.69	0.26	-0.17	792.71	460.75	471.31	782.15	58.27
1	35	282	0.95	0.29	0.79	0.46	-0.29	869.75	397.22	400.15	866.82	37.07
1	35	283	1.41	0.35	1.17	0.59	-0.44	926.91	375.70	376.23	926.39	16.98
1	35	284	1.71	0.24	1.37	0.58	-0.62	963.06	372.12	372.18	963.00	-6.22
1	35	285	2.04	0.15	1.74	0.44	-0.69	976.69	410.81	412.88	974.61	-34.19
1	35	286	1.25	-0.16	0.84	0.24	-0.64	959.86	452.51	460.15	952.23	-61.78
1	35	287	0.40	-0.55	-0.16	1.47e-02	-0.46	903.16	521.61	543.69	881.08	-89.09
1	35	288	-8.03e-02	-1.09	-1.00	-0.17	-0.29	835.88	585.17	672.85	748.20	-119.56
1	35	289	-0.24	-2.20	-2.20	-0.25	-0.10	894.99	483.34	834.69	543.64	-145.55
1	35	290	-0.17	-3.68	-3.68	-0.17	3.04e-02	1062.62	219.83	1027.43	255.02	-168.59
1	35	291	-5.52e-02	-1.22	-1.22	-5.67e-02	-4.25e-02	942.85	180.69	941.15	182.39	-35.95
1	35	292	-4.87e-02	-0.37	-0.37	-5.41e-02	-4.16e-02	859.24	322.31	857.37	324.18	-31.66
1	35	293	0.80	-4.94e-02	0.80	-4.60e-02	-5.39e-02	734.22	509.70	728.29	515.63	-36.02
1	35	294	1.53	4.82e-02	1.53	4.83e-02	-1.27e-02	678.70	592.66	606.32	665.04	-31.45
1	35	295	1.04	0.20	1.03	0.21	-4.25e-02	780.96	485.55	487.57	778.94	-24.35
1	35	296	0.78	0.36	0.77	0.37	-7.01e-02	862.26	408.22	408.74	861.75	-15.28
1	35	297	1.17	0.47	1.16	0.48	-8.65e-02	919.68	384.03	384.17	919.54	-8.71
1	35	298	1.37	0.44	1.36	0.46	-0.11	954.59	380.30	380.32	954.57	3.53
1	35	299	1.53	0.33	1.53	0.33	-6.46e-02	965.05	416.05	416.15	964.95	7.54
1	35	300	0.46	0.16	0.45	0.16	3.03e-02	942.34	459.11	459.75	941.70	17.59
1	35	301	6.65e-02	-0.31	-0.21	-2.53e-02	0.16	873.15	548.52	551.08	870.58	28.73
1	35	302	-0.12	-1.19	-1.14	-0.17	0.23	763.07	655.59	680.00	738.66	45.03
1	35	303	-0.21	-2.36	-2.33	-0.24	0.23	848.15	526.99	838.65	536.49	54.41
1	35	304	-0.16	-3.80	-3.79	-0.16	0.14	1033.90	245.21	1027.66	251.45	69.87
1	35	305	-3.59e-02	-0.99	-0.99	-3.59e-02	-3.48e-03	908.62	114.62	848.98	174.26	-209.27
1	35	306	1.97e-02	-0.22	-0.21	1.81e-02	1.95e-02	835.84	250.03	769.45	316.41	-185.69
1	35	307	0.85	8.24e-02	0.85	8.46e-02	-4.11e-02	763.92	402.33	647.82	518.43	-168.82
1	35	308	1.52	0.20	1.52	0.20	-5.76e-02	762.13	454.92	537.51	679.54	-136.20
1	35	309	1.77	0.40	1.77	0.40	8.32e-03	824.76	424.31	449.97	799.10	-98.06
1	35	310	0.80	0.46	0.66	0.59	0.16	889.74	362.13	369.03	882.83	-59.95
1	35	311	1.19	0.53	1.03	0.69	0.28	940.39	350.78	351.73	939.45	-23.58
1	35	312	1.40	0.47	1.18	0.69	0.40	974.85	348.58	348.79	974.64	11.35
1	35	313	1.53	0.26	1.21	0.58	0.55	990.52	371.73	375.54	986.71	48.40
1	35	314	1.03	-0.24	0.37	0.42	0.64	980.53	396.51	411.12	965.93	91.19
1	35	315	0.70	-0.70	-0.26	0.26	0.65	939.85	440.34	486.12	894.07	144.12
1	35	316	0.39	-1.41	-1.15	0.13	0.63	883.36	468.17	597.54	753.99	192.30
1	35	317	0.15	-2.45	-2.31	1.25e-02	0.59	893.60	387.04	742.12	538.51	231.92
1	35	318	-2.02e-02	-3.73	-3.69	-5.70e-02	0.37	1010.33	153.38	917.11	246.61	266.84
1	35	319	5.49e-02	-0.62	-0.60	3.16e-02	-0.12	824.41	-35.06	639.22	150.13	-353.36
1	35	320	0.33	-7.00e-02	-5.54e-02	0.32	-7.53e-02	779.50	87.36	571.30	295.55	-317.42
1	35	321	1.00	0.30	0.95	0.35	-0.19	788.67	206.73	470.41	524.99	-289.68
1	35	322	1.67	0.46	1.59	0.54	-0.30	832.47	272.42	392.35	712.53	-229.75
1	35	323	1.75	0.78	1.69	0.84	-0.24	888.88	295.03	341.71	842.20	-159.83
1	35	324	1.08	0.96	0.96	1.08	1.28e-02	940.99	285.48	299.90	926.58	-96.14
1	35	325	1.36	0.82	0.98	1.20	0.25	983.65	288.64	290.82	981.46	-38.89
1	35	326	1.59	0.60	0.95	1.24	0.48	1017.65	289.57	289.87	1017.35	14.74
1	35	327	1.86	0.33	0.99	1.20	0.75	1042.18	298.03	304.99	1035.22	71.60
1	35	328	1.68	-0.36	0.24	1.07	0.93	1049.41	289.24	315.80	1022.85	139.60
1	35	329	1.45	-0.81	-0.28	0.92	0.96	1030.60	278.11	354.03	954.69	226.63
1	35	330	1.22	-1.53	-1.16	0.85	0.93	982.79	241.22	423.93	800.08	319.54
1	35	331	0.99	-2.62	-2.30	0.67	1.03	938.86	141.59	531.00	549.45	398.53
1	35	332	0.44	-3.73	-3.54	0.25	0.87	963.34	-58.99	669.11	235.24	462.85
1	35	333	0.56	-0.99	-0.35	-7.69e-02	-0.76	627.42	-300.68	245.88	80.86	-456.65
1	35	334	1.33	-0.17	-0.14	1.30	-0.20	651.03	-193.87	213.92	243.24	-422.20
1	35	335	1.35	0.58	1.07	0.86	-0.37	781.33	-67.64	171.65	542.04	-381.96
1	35	336	1.65	0.21	0.67	1.20	-0.67	879.42	46.32	155.38	770.36	-281.00
1	35	337	1.89	0.46	0.68	1.68	-0.51	951.53	134.02	178.59	906.97	-185.60
1	35	338	1.87	0.60	0.61	1.86	-0.12	1001.04	184.68	199.11	986.60	-107.59
1	35	339	2.00	0.67	0.71	1.96	0.22	1038.38	212.11	214.28	1036.21	-42.36
1	35	340	2.23	0.40	0.58	2.05	0.54	1072.19	217.91	218.18	1071.93	15.03
1	35	341	2.54	5.10e-02	0.47	2.13	0.93	1103.44	209.17	215.74	1096.87	76.38
1	35	342	2.83	-2.40e-02	0.72	2.08	1.26	1125.45	184.38	209.55	1100.29	151.82
1	35	343	2.77	-8.45e-02	0.74	1.95	1.29	1123.22	118.42	189.07	1052.57	256.90
1	35	344	2.41	-1.61	-1.21	2.01	1.20	1064.61	-20.56	154.26	889.79	398.93
1	35	345	2.70	-3.07	-2.56	2.20	1.64	948.56	-191.00	181.72	575.84	534.62
1	35	346	1.59	-3.91	-3.08	0.75	1.97	832.54	-392.98	242.69	196.87	612.33
1	35	347	-2.23	-5.87	-5.73	-2.37	-0.70	105.47	-714.27	-473.99	-134.81	-373.14
1	35	348	5.01	3.10	3.12	4.99	0.18	420.02	-552.63	-280.03	147.42	-436.85
1	35	349	2.04	-0.82	-0.67	1.90	-0.62	760.29	-429.59	-286.52	617.21	-387.00
1	35	350	3.57	1.55e-03	0.52	3.05	-1.26	914.12	-148.29	-88.20	854.03	-245.41
1	35	351	3.08	0.84	1.01	2.90	-0.61	1004.89	25.85	49.83	980.90	-151.34
1	35	352	2.77	0.40	0.41	2.77	-0.11	1054.47	103.65	111.14	1046.98	-84.06

1	35	353	2.80	0.27	0.29	2.78	0.23	1089.67	145.20	146.30	1088.56	-32.28
1	35	354	3.05	0.12	0.22	2.95	0.53	1123.52	157.30	157.44	1123.38	11.58
1	35	355	3.52	-0.19	4.61e-02	3.28	0.91	1158.37	138.32	141.79	1154.91	59.37
1	35	356	4.10	-0.81	-0.38	3.67	1.39	1188.13	75.96	88.69	1175.40	118.29
1	35	357	4.68	-0.26	0.65	3.77	1.91	1199.93	-22.94	11.72	1165.28	202.92
1	35	358	3.66	0.69	0.75	3.60	0.42	1148.49	-251.03	-157.54	1055.00	349.42
1	35	359	7.92	-6.46	-5.49	6.95	3.61	913.30	-629.20	-343.69	627.79	599.07
1	35	360	2.08	-2.98	0.19	-1.09	2.45	471.28	-908.36	-501.29	64.21	629.21
1	35	361	13.55	1.45	13.55	1.45	-0.24	-915.88	-1481.24	-1462.06	-935.06	102.36
1	35	362	-4.65	-10.03	-5.15	-9.53	1.55	231.92	-1385.22	-1201.39	48.09	-513.30
1	35	363	8.48	-5.47	-7.53e-02	3.08	-6.79	688.31	-640.94	-595.22	642.59	-242.25
1	35	364	5.24	5.89e-02	0.22	5.08	-0.90	937.31	-222.41	-212.22	927.13	-108.22
1	35	365	3.94	0.40	0.41	3.94	-0.12	1035.50	-34.37	-30.42	1031.56	-64.85
1	35	366	3.46	0.28	0.30	3.44	0.22	1087.62	64.78	66.08	1086.32	-36.42
1	35	367	3.38	8.69e-02	0.13	3.34	0.35	1123.15	112.15	112.31	1122.99	-12.76
1	35	368	3.63	-9.40e-02	-4.08e-02	3.58	0.44	1156.94	125.60	125.64	1156.90	6.51
1	35	369	4.26	-0.54	-0.47	4.18	0.59	1192.35	100.10	100.90	1191.55	29.59
1	35	370	5.42	-1.01	-0.89	5.30	0.89	1223.16	33.53	36.00	1220.69	54.22
1	35	371	7.19	-2.07	-1.71	6.83	1.81	1230.29	-103.20	-97.55	1224.63	86.64
1	35	372	9.16	-2.05	0.78	6.34	4.87	1213.92	-330.18	-308.99	1192.74	179.63
1	35	373	10.69	-3.13	9.41	-1.85	-4.01	1123.48	-860.79	-788.63	1051.32	371.46
1	35	374	18.90	-9.65	10.84	-1.59	-12.85	-530.29	-1847.33	-1735.60	-642.02	366.98
1	35	375	32.08	7.66	32.06	7.68	-0.60	128.02	-1279.02	-1275.84	124.85	66.76
1	35	376	19.11	1.43	1.47	19.06	-0.86	821.92	-532.47	-531.54	820.99	-35.42
1	35	377	5.05	0.41	0.48	4.98	0.56	931.92	-224.05	-223.61	931.48	-22.60
1	35	378	4.11	0.43	0.49	4.04	0.50	1040.08	-31.27	-30.97	1039.79	-17.88
1	35	379	3.58	0.19	0.26	3.51	0.48	1092.83	63.85	63.98	1092.71	-11.38
1	35	380	3.48	3.20e-02	8.90e-02	3.42	0.44	1129.71	110.56	110.58	1129.69	-4.00
1	35	381	3.72	-0.12	-7.91e-02	3.68	0.39	1163.55	124.49	124.50	1163.53	4.21
1	35	382	4.35	-0.54	-0.51	4.32	0.37	1198.62	101.29	101.51	1198.40	15.44
1	35	383	5.43	-0.83	-0.81	5.41	0.31	1226.50	40.39	41.08	1225.81	28.55
1	35	384	7.94	0.49	0.49	7.94	0.19	1242.86	-54.54	-53.83	1242.15	30.40
1	35	385	16.53	-0.61	-0.56	16.48	0.96	1291.76	-295.82	-295.05	1290.99	35.00
1	35	386	42.23	-3.63	42.22	-3.61	0.85	1306.60	-343.05	-342.59	1306.14	-27.40
1	35	387	11.44	-4.65	9.27	-2.49	5.50	-581.37	-920.17	-884.15	-617.39	-104.43
1	35	388	-0.74	-7.27	-2.63	-5.37	-2.97	218.11	-1103.55	-929.41	43.96	447.03
1	35	389	7.70	-5.61	-0.76	2.84	6.40	677.84	-561.10	-523.12	639.86	213.57
1	35	390	5.54	-0.52	-0.22	5.24	1.31	931.48	-194.88	-189.45	926.05	78.02
1	35	391	4.18	0.32	0.46	4.04	0.73	1038.29	-15.47	-14.01	1036.82	39.27
1	35	392	3.58	0.30	0.33	3.54	0.35	1095.42	73.12	73.52	1095.02	20.20
1	35	393	3.44	3.78e-02	3.84e-02	3.44	4.44e-02	1133.40	113.87	114.03	1133.25	12.77
1	35	394	3.71	-4.59e-02	-3.45e-02	3.70	-0.21	1167.35	129.10	129.13	1167.32	5.08
1	35	395	4.39	-0.51	-0.47	4.35	-0.44	1200.65	106.72	106.72	1200.65	-1.55
1	35	396	5.64	-1.02	-0.92	5.54	-0.81	1226.51	48.41	48.64	1226.28	-16.51
1	35	397	7.83	-1.91	-1.56	7.49	-1.81	1228.78	-69.32	-67.33	1226.78	-50.89
1	35	398	10.74	-2.45	0.47	7.82	-5.48	1212.64	-257.00	-240.00	1195.64	-157.13
1	35	399	15.99	1.42	13.65	3.75	5.35	1071.54	-708.55	-620.59	983.58	-385.81
1	35	400	9.60	-6.36	6.69	-3.45	6.16	-238.85	-1185.48	-1081.02	-343.31	-296.60
1	35	401	-2.89	-8.21	-8.21	-2.89	7.57e-02	127.21	-467.15	-258.49	-81.45	283.69
1	35	402	5.33	2.61	4.23	3.71	-1.33	394.62	-288.69	-104.50	210.43	303.21
1	35	403	3.43	-0.98	-0.13	2.58	1.74	733.42	-266.77	-169.86	636.51	295.87
1	35	404	4.05	-0.20	0.65	3.20	1.70	898.73	-58.17	-24.15	864.71	177.19
1	35	405	3.36	5.43e-02	0.30	3.11	0.86	1011.17	53.82	64.49	1000.51	100.50
1	35	406	3.03	0.49	0.51	3.01	0.23	1077.39	122.15	124.93	1074.61	51.45
1	35	407	3.11	0.32	0.37	3.06	-0.35	1120.70	151.41	151.80	1120.31	19.45
1	35	408	3.51	4.20e-02	0.27	3.28	-0.87	1155.61	161.82	161.88	1155.55	-7.59
1	35	409	4.13	-0.36	8.56e-02	3.68	-1.35	1184.86	151.00	152.21	1183.64	-35.44
1	35	410	5.03	-0.45	0.37	4.21	-1.96	1202.04	122.70	128.12	1196.62	-76.27
1	35	411	5.92	-0.68	0.77	4.47	-2.73	1195.72	51.32	69.43	1177.61	-142.84
1	35	412	5.34	1.03	2.06	4.31	-1.84	1129.35	-95.63	-32.14	1065.85	-271.57
1	35	413	7.45	-3.58	-2.48	6.34	-3.31	884.94	-355.38	-136.54	666.10	-472.80
1	35	414	-1.22	-4.26	-3.00	-2.48	-1.50	483.24	-620.15	-252.48	115.57	-520.10
1	35	415	0.61	-1.26	-0.53	-0.12	0.91	571.00	-76.56	378.15	116.30	296.13
1	35	416	1.05	0.21	0.28	0.98	0.24	578.35	37.03	324.44	290.93	270.14
1	35	417	2.33	0.54	2.01	0.86	0.68	718.08	132.94	266.92	584.11	245.85
1	35	418	1.88	-0.60	-0.12	1.41	0.98	855.38	128.61	174.00	809.98	175.87
1	35	419	2.29	0.58	0.91	1.97	0.67	968.06	180.80	196.32	952.54	109.45
1	35	420	2.26	0.75	0.77	2.24	0.19	1044.42	196.58	200.89	1040.12	60.25
1	35	421	2.50	0.64	0.72	2.42	-0.38	1095.21	208.14	208.74	1094.61	23.06
1	35	422	2.97	0.37	0.77	2.57	-0.95	1131.00	213.13	213.19	1130.94	-7.60
1	35	423	3.45	1.48e-02	0.78	2.68	-1.43	1153.76	218.51	220.36	1151.91	-41.56
1	35	424	3.85	-0.32	0.91	2.62	-1.90	1156.11	217.61	226.19	1147.54	-89.30
1	35	425	4.33	0.13	2.13	2.33	-2.10	1122.10	223.61	254.55	1091.17	-163.82
1	35	426	2.98	-1.74	-0.81	2.04	-1.88	1023.51	134.74	232.36	925.89	-277.90
1	35	427	2.45	-2.91	-2.33	1.87	-1.67	875.40	34.55	294.63	615.32	-388.65
1	35	428	1.09	-4.29	-3.70	0.50	-1.68	770.60	-150.05	392.65	227.90	-452.90

1	35	429	0.11	-0.86	-0.77	2.76e-02	0.27	737.91	127.82	690.19	175.54	163.82
1	35	430	0.48	1.23e-02	0.24	0.25	0.23	670.65	275.32	609.66	336.31	142.80
1	35	431	1.74	0.29	1.67	0.36	0.31	672.09	393.11	484.79	580.41	131.05
1	35	432	0.87	-0.34	-0.22	0.75	0.36	801.44	313.51	336.23	778.72	102.82
1	35	433	1.28	0.26	0.30	1.23	0.21	926.09	276.71	284.03	918.78	68.54
1	35	434	1.63	0.60	0.61	1.62	-7.16e-02	1013.43	261.78	263.80	1011.40	38.98
1	35	435	2.06	0.68	0.89	1.85	-0.49	1071.33	256.32	256.61	1071.04	15.42
1	35	436	2.57	0.58	1.22	1.94	-0.93	1107.71	259.52	259.56	1107.67	-5.73
1	35	437	3.00	0.48	1.59	1.88	-1.25	1123.18	280.57	281.63	1122.11	-29.91
1	35	438	3.30	0.29	1.95	1.64	-1.50	1107.44	321.74	326.98	1102.21	-63.92
1	35	439	3.28	8.12e-02	2.08	1.28	-1.55	1043.42	371.12	391.11	1023.44	-114.17
1	35	440	1.63	-1.78	-1.10	0.95	-1.36	921.14	366.29	430.87	856.57	-177.93
1	35	441	0.96	-2.84	-2.49	0.61	-1.11	807.08	336.80	551.10	592.79	-234.21
1	35	442	0.28	-4.32	-4.20	0.16	-0.74	839.22	126.98	708.78	257.42	-275.48
1	35	443	-1.46e-02	-1.03	-1.02	-2.65e-02	0.11	803.41	192.58	803.37	192.62	-5.12
1	35	444	0.30	-0.11	0.12	6.48e-02	0.20	715.67	352.66	715.50	352.83	-7.78
1	35	445	1.59	0.19	1.55	0.24	0.24	583.11	577.94	578.02	583.03	-0.64
1	35	446	0.55	-0.33	-0.29	0.51	0.19	769.59	405.79	405.86	769.53	4.82
1	35	447	0.97	0.38	0.39	0.95	-8.97e-02	906.90	330.48	330.49	906.88	3.16
1	35	448	1.55	0.57	0.78	1.35	-0.40	1000.29	299.95	299.96	1000.28	-2.35
1	35	449	2.00	0.68	1.09	1.59	-0.62	1061.26	279.82	279.82	1061.26	2.66e-02
1	35	450	2.39	0.69	1.44	1.64	-0.84	1097.51	280.31	280.32	1097.50	-1.68
1	35	451	2.64	0.70	1.81	1.53	-0.96	1108.18	303.73	303.76	1108.14	-5.27
1	35	452	2.80	0.53	2.10	1.23	-1.04	1080.70	359.16	359.51	1080.34	-16.04
1	35	453	2.60	0.37	2.08	0.88	-0.94	994.60	448.56	449.32	993.84	-20.37
1	35	454	0.81	-1.49	-1.26	0.58	-0.69	833.30	506.00	509.75	829.55	-34.83
1	35	455	0.33	-2.84	-2.79	0.28	-0.38	681.02	553.03	651.15	582.90	-54.14
1	35	456	3.21e-02	-4.61	-4.60	2.95e-02	-0.11	837.20	254.49	829.33	262.36	-67.26
1	35	457	5.29e-02	-0.97	-0.97	5.22e-02	-2.74e-02	780.04	159.25	753.10	186.20	-126.50
1	35	458	0.34	-0.12	2.74e-02	0.19	0.22	701.61	313.11	666.47	348.25	-111.43
1	35	459	1.62	0.22	1.57	0.26	0.26	664.58	456.92	535.20	586.29	-100.64
1	35	460	1.07	0.56	1.03	0.60	0.14	801.16	376.28	398.08	779.36	-93.75
1	35	461	1.08	0.39	0.39	1.07	-4.64e-02	925.43	299.79	307.27	917.95	-68.02
1	35	462	1.50	0.73	0.76	1.47	-0.14	1013.20	275.42	278.03	1010.60	-43.78
1	35	463	1.73	1.06	1.08	1.71	-0.10	1071.08	265.60	266.38	1070.30	-25.11
1	35	464	1.79	1.41	1.44	1.76	-0.10	1105.81	267.42	267.47	1105.76	-6.49
1	35	465	1.84	1.65	1.84	1.66	-2.77e-02	1117.45	287.91	288.24	1117.13	16.33
1	35	466	2.17	1.36	2.17	1.36	-1.18e-02	1093.74	334.77	337.60	1090.91	46.29
1	35	467	1.59	1.01	1.59	1.01	1.15e-02	1015.30	396.13	407.24	1004.18	82.21
1	35	468	0.80	-1.37	-1.37	0.80	4.73e-02	877.77	426.42	470.04	834.14	133.37
1	35	469	0.66	-3.15	-3.13	0.64	0.29	766.02	416.63	604.10	578.55	174.23
1	35	470	0.33	-4.90	-4.84	0.27	0.57	834.44	189.30	769.63	254.11	193.93
1	35	471	0.30	-1.35	-1.10	4.54e-02	-0.59	669.11	-5.45	519.13	144.53	-280.49
1	35	472	0.92	-0.36	-0.20	0.77	0.42	651.91	123.78	453.45	322.24	-255.78
1	35	473	1.82	0.61	1.82	0.61	-3.40e-02	736.29	213.84	354.30	595.83	-231.64
1	35	474	1.53	0.74	1.14	1.13	-0.40	860.50	216.29	266.61	810.18	-172.88
1	35	475	1.71	0.69	0.73	1.68	-0.19	968.41	211.29	228.19	951.52	-111.83
1	35	476	2.03	0.82	0.84	2.01	0.16	1044.92	213.64	218.19	1040.37	-61.31
1	35	477	2.33	0.86	0.98	2.21	0.40	1096.23	219.46	220.09	1095.60	-23.55
1	35	478	2.55	0.95	1.22	2.28	0.60	1130.14	224.43	224.54	1130.04	9.73
1	35	479	2.86	1.06	1.66	2.27	0.85	1148.29	237.14	239.55	1145.87	46.88
1	35	480	3.09	1.09	2.11	2.07	1.00	1140.78	257.54	268.05	1130.27	95.76
1	35	481	2.97	1.10	2.37	1.69	0.87	1089.31	270.50	304.72	1055.10	163.83
1	35	482	1.56	-1.33	-1.27	1.50	0.42	977.86	207.08	308.70	876.24	260.77
1	35	483	1.68	-3.67	-3.63	1.64	0.48	833.47	145.52	402.27	576.73	332.73
1	35	484	1.05	-5.55	-5.14	0.64	1.60	773.37	-32.52	520.79	220.06	373.84
1	35	485	-1.56	-7.16	-7.15	-1.57	0.21	316.75	-329.21	-6.13	-6.34	-322.98
1	35	486	4.12	-0.75	2.02	1.35	2.41	492.94	-161.31	69.56	262.08	-312.64
1	35	487	4.40	0.43	2.21	2.62	-1.97	778.71	-91.77	47.86	639.08	-319.45
1	35	488	3.04	-0.18	0.18	2.68	-1.02	914.49	-3.71	47.62	863.16	-210.94
1	35	489	2.84	0.30	0.39	2.76	-0.46	1020.35	79.00	96.05	1003.30	-125.53
1	35	490	2.83	0.78	0.78	2.83	-7.17e-02	1085.57	133.36	137.88	1081.05	-65.51
1	35	491	2.92	0.73	0.74	2.92	0.11	1128.38	156.12	156.71	1127.80	-23.76
1	35	492	3.11	0.75	0.82	3.04	0.38	1160.66	165.16	165.24	1160.58	8.98
1	35	493	3.53	0.77	1.08	3.22	0.87	1184.89	165.25	167.33	1182.81	46.05
1	35	494	4.00	0.81	1.43	3.39	1.26	1192.99	145.15	154.28	1183.87	97.36
1	35	495	4.29	1.62	2.36	3.54	1.20	1165.85	110.23	137.49	1138.59	167.45
1	35	496	3.64	0.55	0.70	3.49	0.67	1071.94	-24.74	66.77	980.42	303.30
1	35	497	3.97	-4.44	-4.33	3.86	0.98	827.30	-205.59	29.52	592.19	433.09
1	35	498	-1.95	-5.76	-4.71	-3.01	1.71	526.22	-403.89	19.33	103.01	463.17
1	35	499	13.39	-14.51	12.16	-13.28	-5.72	-109.83	-582.40	-470.32	-221.91	-201.00
1	35	500	-0.15	-7.27	-7.24	-0.19	0.51	294.41	-837.94	-577.32	33.79	-476.64
1	35	501	3.58	-1.85	-1.83	3.56	0.32	747.28	-517.03	-430.33	660.58	-319.53
1	35	502	4.47	-0.65	-0.50	4.32	-0.87	963.54	-223.68	-200.51	940.38	-164.21
1	35	503	3.98	0.45	0.56	3.87	-0.63	1063.94	-35.39	-28.59	1057.14	-86.17
1	35	504	3.67	0.66	0.72	3.61	-0.42	1118.38	59.26	61.16	1116.48	-44.83

1	35	505	3.61	0.46	0.51	3.57	-0.36	1154.12	100.00	100.91	1153.21	-31.05
1	35	506	3.75	0.40	0.40	3.74	-0.17	1183.92	112.23	112.43	1183.73	-14.41
1	35	507	4.18	0.44	0.46	4.17	0.24	1212.38	97.37	97.66	1212.09	18.03
1	35	508	4.92	0.96	1.06	4.82	0.62	1231.56	53.98	56.24	1229.30	51.59
1	35	509	5.90	2.24	2.42	5.73	0.77	1225.49	-35.32	-26.38	1216.55	105.83
1	35	510	7.99	2.93	2.99	7.93	-0.55	1177.87	-229.26	-186.07	1134.69	242.70
1	35	511	6.79	-3.32	0.78	2.69	-4.96	824.10	-723.02	-523.69	624.77	518.32
1	35	512	12.42	-11.76	12.40	-11.74	-0.72	170.39	-825.79	-596.16	-59.24	419.55
1	35	513	2.22	0.68	1.02	1.89	0.64	869.20	302.37	313.64	857.93	79.13
1	35	514	19.68	-11.05	19.41	-10.79	-2.84	176.65	-1703.69	-1702.96	175.92	37.02
1	35	515	11.61	7.53	9.34	9.80	-2.03	841.19	-658.91	-657.71	839.99	42.46
1	35	516	5.41	0.25	0.27	5.40	-0.31	981.28	-328.64	-327.16	979.80	44.03
1	35	517	4.47	0.93	0.95	4.44	-0.30	1077.00	-88.06	-87.29	1076.24	29.85
1	35	518	4.01	0.80	0.84	3.97	-0.36	1123.09	26.97	27.19	1122.87	15.56
1	35	519	3.91	0.39	0.46	3.84	-0.49	1153.15	76.32	76.32	1153.15	1.60
1	35	520	4.11	0.14	0.23	4.02	-0.58	1182.19	89.03	89.27	1181.94	-16.40
1	35	521	4.63	0.19	0.27	4.55	-0.60	1213.61	66.62	67.40	1212.84	-29.87
1	35	522	5.46	0.40	0.48	5.39	-0.61	1240.02	-1.14	0.42	1238.46	-43.98
1	35	523	6.44	2.97	2.99	6.42	-0.27	1249.30	-107.19	-105.09	1247.20	-53.34
1	35	524	10.39	4.79	9.83	5.35	1.68	1265.01	-354.98	-353.00	1263.04	-56.48
1	35	525	27.38	-19.45	27.13	-19.19	3.43	1145.23	-964.23	-963.22	1144.22	-46.14
1	35	526	1.84	-1.29	-1.12	1.67	0.71	633.54	317.12	387.04	563.62	131.28
1	35	527	0.84	-2.02	-2.00	0.82	0.26	553.59	159.39	504.68	208.30	129.96
1	35	528	2.82	-2.09	2.67	-1.93	0.87	264.96	-9.28	244.89	10.78	-71.42
1	35	529	-0.64	-3.77	-3.76	-0.65	-0.17	389.56	-37.35	151.58	200.64	-212.04
1	35	530	2.32	-0.21	0.38	1.72	-1.07	660.22	117.25	174.28	603.19	-166.47
1	35	531	2.30	0.29	0.39	2.19	-0.44	857.42	153.77	170.64	840.55	-107.64
1	35	532	2.18	0.28	0.29	2.17	-9.16e-02	984.05	147.56	153.63	977.99	-70.96
1	35	533	2.22	0.23	0.24	2.21	0.14	1060.03	134.44	136.25	1058.22	-40.88
1	35	534	2.38	0.19	0.23	2.34	0.30	1105.48	126.94	127.12	1105.30	-13.12
1	35	535	2.60	0.14	0.22	2.52	0.44	1131.80	126.22	126.22	1131.80	0.11
1	35	536	2.91	0.12	0.25	2.77	0.59	1140.28	135.66	136.25	1139.69	24.47
1	35	537	3.35	0.11	0.33	3.12	0.82	1122.85	152.48	155.38	1119.95	52.93
1	35	538	3.87	0.24	0.70	3.42	1.20	1062.02	171.56	181.13	1052.45	91.83
1	35	539	10.30	-7.93	9.91	-7.54	2.62	-365.20	-817.05	-760.03	-422.22	150.05
1	35	540	2.86	-7.02	-5.11	0.95	-3.90	313.37	-1128.00	-827.92	13.29	585.21
1	35	541	3.37	-2.80	-1.66	2.24	2.39	769.93	-666.00	-554.50	658.42	384.29
1	35	542	4.77	0.48	0.64	4.60	0.82	975.18	-263.91	-230.44	941.70	200.89
1	35	543	4.10	1.40	1.43	4.07	0.27	1059.25	-51.17	-37.78	1045.86	121.20
1	35	544	3.69	0.92	0.92	3.69	-2.70e-02	1102.28	47.48	51.98	1097.78	68.69
1	35	545	3.63	0.50	0.54	3.59	-0.37	1130.73	93.79	94.51	1130.01	27.40
1	35	546	3.87	0.19	0.31	3.75	-0.66	1158.82	104.66	104.85	1158.63	-14.33
1	35	547	4.37	-6.49e-02	0.13	4.18	-0.90	1190.40	80.20	82.85	1187.74	-54.23
1	35	548	5.13	0.24	0.53	4.84	-1.16	1217.86	20.21	29.08	1208.99	-102.69
1	35	549	6.00	0.71	1.05	5.66	-1.30	1225.56	-111.59	-89.28	1203.24	-171.29
1	35	550	6.97	2.24	2.56	6.66	-1.18	1205.80	-343.94	-273.42	1135.28	-322.99
1	35	551	13.37	-4.08	5.18	4.10	8.71	957.87	-879.19	-667.46	746.14	-586.63
1	35	552	8.83	-7.10	7.15	-5.42	4.89	-11.28	-1152.06	-928.44	-234.89	-452.87
1	35	553	-1.47	-8.60	-8.51	-1.56	0.76	320.35	-608.09	-227.32	-60.42	456.66
1	35	554	5.59	1.87	3.56	3.89	-1.85	545.38	-386.89	-72.04	230.54	440.90
1	35	555	4.52	1.00	1.86	3.66	1.51	835.88	-297.17	-92.05	630.75	436.28
1	35	556	3.83	1.33	2.14	3.01	1.17	942.32	-87.43	7.49	847.41	297.88
1	35	557	3.25	1.39	1.68	2.96	0.68	1014.28	41.67	81.20	974.75	192.05
1	35	558	2.93	1.19	1.22	2.90	0.22	1054.29	113.79	127.06	1041.01	110.95
1	35	559	2.95	0.79	0.83	2.91	-0.28	1081.90	147.21	149.37	1079.74	44.88
1	35	560	3.23	0.40	0.60	3.03	-0.73	1109.17	155.15	155.45	1108.88	-16.82
1	35	561	3.63	4.25e-02	0.42	3.25	-1.11	1138.48	136.98	143.63	1131.83	-81.34
1	35	562	4.04	-0.55	-4.06e-02	3.53	-1.45	1162.59	77.69	101.08	1139.20	-157.58
1	35	563	4.34	-0.16	0.38	3.80	-1.46	1167.78	-12.35	47.00	1108.43	-257.92
1	35	564	4.51	0.46	0.47	4.50	-0.17	1125.90	-185.83	-34.15	974.22	-419.47
1	35	565	8.04	-5.08	-4.64	7.60	-2.36	930.22	-447.99	-101.66	583.88	-597.81
1	35	566	0.63	-6.12	-3.87	-1.61	-3.18	593.11	-731.01	-215.97	78.07	-645.53
1	35	567	1.39	-0.80	0.47	0.12	1.08	748.19	-223.73	408.26	116.21	463.50
1	35	568	1.48	0.47	0.50	1.46	0.17	742.88	-100.75	353.99	288.14	420.53
1	35	569	2.00	0.90	1.80	1.10	0.42	825.47	14.18	279.70	559.95	380.68
1	35	570	2.71	0.95	2.27	1.39	0.76	897.42	117.00	246.31	768.11	290.17
1	35	571	2.48	1.23	1.97	1.73	0.61	952.07	179.25	235.15	896.16	200.19
1	35	572	2.05	1.45	1.58	1.92	0.25	990.32	212.43	230.77	971.97	118.03
1	35	573	2.10	1.13	1.20	2.03	-0.24	1019.98	225.29	228.03	1017.24	46.58
1	35	574	2.46	0.66	1.01	2.11	-0.71	1046.66	228.21	228.60	1046.27	-17.88
1	35	575	2.74	0.17	0.75	2.17	-1.07	1070.73	222.48	231.59	1061.62	-87.46
1	35	576	2.79	-0.48	0.17	2.14	-1.31	1086.13	193.07	226.64	1052.57	-169.84
1	35	577	2.60	-0.80	-0.28	2.08	-1.22	1081.89	141.85	231.73	992.01	-276.43
1	35	578	2.62	-1.77	-1.52	2.36	-1.03	1042.42	45.91	259.32	829.00	-408.81
1	35	579	3.07	-3.76	-3.38	2.69	-1.56	960.62	-100.34	320.98	539.29	-519.13
1	35	580	2.07	-4.95	-3.91	1.03	-2.48	904.68	-299.90	410.56	194.22	-592.50

1	35	581	0.36	-9.73e-02	0.22	5.22e-02	0.22	898.63	10.37	742.19	166.82	338.36
1	35	582	0.80	0.29	0.75	0.34	0.15	834.15	143.59	659.91	317.83	299.94
1	35	583	1.65	0.34	1.60	0.39	0.25	810.88	264.21	536.38	538.71	273.33
1	35	584	2.23	0.49	2.15	0.57	0.38	836.20	317.37	440.00	713.56	220.43
1	35	585	2.23	0.77	2.14	0.86	0.35	882.77	323.71	372.95	833.53	158.44
1	35	586	1.89	1.08	1.87	1.10	0.12	926.45	314.20	330.11	910.54	97.41
1	35	587	1.68	1.07	1.52	1.24	-0.27	960.69	304.60	306.75	958.55	37.45
1	35	588	1.98	0.69	1.38	1.29	-0.64	986.93	303.87	304.22	986.58	-15.54
1	35	589	1.94	6.26e-02	0.74	1.26	-0.90	1003.17	306.31	314.34	995.14	-74.35
1	35	590	1.84	-0.43	0.25	1.16	-1.04	1003.97	314.78	345.19	973.55	-141.55
1	35	591	1.57	-0.99	-0.47	1.06	-1.03	985.79	314.75	400.16	900.39	-223.64
1	35	592	1.39	-1.97	-1.64	1.06	-0.99	952.70	283.06	484.99	750.77	-307.31
1	35	593	1.24	-3.35	-3.04	0.92	-1.16	936.30	182.96	600.63	518.63	-374.43
1	35	594	0.63	-4.58	-4.35	0.39	-1.08	983.97	-19.44	739.34	225.20	-430.84
1	35	595	-2.44e-02	-0.32	-0.30	-4.61e-02	7.72e-02	956.26	140.35	912.80	183.81	183.22
1	35	596	0.52	-3.50e-03	0.51	7.38e-03	7.48e-02	871.01	283.75	823.57	331.19	160.04
1	35	597	1.48	8.27e-02	1.47	9.09e-02	0.11	772.36	442.91	684.95	530.32	145.45
1	35	598	2.08	0.22	2.07	0.23	0.13	758.60	488.80	562.88	684.51	120.42
1	35	599	2.22	0.34	2.21	0.35	9.98e-02	816.49	444.53	467.26	793.76	89.10
1	35	600	2.05	0.55	2.05	0.55	-5.71e-02	875.29	395.52	401.99	868.82	55.35
1	35	601	1.83	0.59	1.74	0.68	-0.33	917.44	365.06	365.82	916.68	20.46
1	35	602	1.85	0.43	1.58	0.70	-0.56	943.02	360.45	360.63	942.84	-10.11
1	35	603	1.47	3.71e-02	0.88	0.63	-0.71	950.05	375.46	379.09	946.42	-45.51
1	35	604	1.17	-0.41	0.29	0.48	-0.78	933.16	413.03	428.06	918.14	-87.12
1	35	605	0.83	-1.00	-0.55	0.38	-0.79	889.46	462.85	508.07	844.24	-131.33
1	35	606	0.53	-1.97	-1.71	0.27	-0.76	844.52	484.07	619.71	708.88	-174.63
1	35	607	0.26	-3.29	-3.14	0.11	-0.72	876.12	387.77	758.17	505.72	-209.02
1	35	608	2.83e-02	-4.82	-4.78	-1.53e-02	-0.46	996.36	155.90	920.71	231.56	-240.54
1	35	609	-6.86e-02	-0.62	-0.61	-8.54e-02	9.49e-02	975.44	188.32	975.28	188.47	11.07
1	35	610	0.31	-0.13	0.28	-0.11	0.10	883.98	334.99	883.88	335.09	7.50
1	35	611	1.42	-9.89e-02	1.42	-9.52e-02	7.50e-02	742.98	526.37	742.50	526.85	10.16
1	35	612	2.06	1.08e-02	2.05	1.59e-02	0.10	675.44	610.37	612.55	673.26	11.70
1	35	613	2.26	0.20	2.25	0.20	0.14	780.69	506.90	507.38	780.21	11.44
1	35	614	2.12	0.39	2.12	0.39	7.32e-02	853.81	433.57	433.77	853.61	9.15
1	35	615	1.82	0.46	1.82	0.46	-5.99e-02	899.85	392.60	392.60	899.85	1.91
1	35	616	1.68	0.44	1.66	0.46	-0.16	924.78	386.29	386.29	924.78	-0.12
1	35	617	1.01	0.31	0.94	0.38	-0.20	926.51	407.63	407.67	926.47	-4.82
1	35	618	0.55	-2.25e-02	0.31	0.22	-0.28	896.75	462.71	463.03	896.43	-11.69
1	35	619	0.25	-0.75	-0.57	6.86e-02	-0.38	824.00	550.26	551.68	822.57	-19.68
1	35	620	5.73e-02	-1.87	-1.77	-3.89e-02	-0.42	714.01	651.78	672.24	693.55	-29.24
1	35	621	-7.03e-02	-3.31	-3.27	-0.11	-0.36	823.13	496.66	818.62	501.17	-38.11
1	35	622	-9.80e-02	-5.02	-5.01	-0.11	-0.20	991.26	230.13	988.51	232.88	-45.63
1	35	623	-4.70e-02	-0.67	-0.64	-7.55e-02	0.13	968.32	164.17	945.63	186.85	-133.14
1	35	624	0.34	-0.15	0.27	-8.15e-02	0.17	881.45	308.64	855.45	334.64	-119.24
1	35	625	1.46	-6.21e-02	1.45	-5.38e-02	0.11	766.97	480.28	716.20	531.04	-109.44
1	35	626	2.10	7.95e-02	2.10	8.29e-02	8.25e-02	741.31	530.83	590.30	681.84	-94.76
1	35	627	2.26	0.30	2.25	0.31	0.13	805.69	476.10	491.04	790.75	-68.56
1	35	628	2.11	0.50	2.09	0.52	0.17	868.10	417.60	421.13	864.57	-39.74
1	35	629	1.80	0.56	1.77	0.59	0.18	911.12	381.69	382.26	910.55	-17.35
1	35	630	1.66	0.54	1.61	0.59	0.23	935.72	376.08	376.26	935.54	9.89
1	35	631	1.06	0.34	0.92	0.48	0.29	940.06	393.08	395.53	937.61	36.52
1	35	632	0.55	6.19e-02	0.32	0.29	0.24	916.23	438.79	447.10	907.92	62.43
1	35	633	0.12	-0.55	-0.54	0.11	9.54e-02	858.75	505.30	530.95	833.10	91.70
1	35	634	5.68e-04	-1.78	-1.78	2.83e-04	-2.25e-02	806.50	540.76	646.83	700.44	130.14
1	35	635	-4.64e-02	-3.36	-3.36	-4.65e-02	-1.66e-02	857.44	434.36	789.22	502.57	155.59
1	35	636	-6.91e-02	-5.13	-5.13	-6.91e-02	9.31e-03	996.13	190.38	955.25	231.26	176.84
1	35	637	3.69e-02	-0.54	-0.53	2.62e-02	7.75e-02	931.61	59.36	814.91	176.06	-296.94
1	35	638	0.43	-3.60e-02	0.31	9.18e-02	0.21	862.82	195.35	731.54	326.63	-265.31
1	35	639	1.61	6.85e-02	1.61	6.93e-02	3.63e-02	814.84	330.13	604.15	540.82	-240.27
1	35	640	2.24	0.27	2.22	0.29	-0.19	822.73	382.70	497.57	707.86	-193.26
1	35	641	2.24	0.59	2.21	0.61	-0.21	870.44	372.17	418.51	824.11	-144.71
1	35	642	1.94	0.88	1.94	0.88	-4.73e-02	913.49	352.68	366.26	899.91	-86.21
1	35	643	1.60	1.02	1.58	1.04	0.11	949.33	335.16	337.27	947.22	-35.91
1	35	644	1.54	0.91	1.37	1.08	0.28	973.99	331.64	332.00	973.62	15.27
1	35	645	1.41	0.43	0.80	1.04	0.48	986.98	338.17	345.33	979.83	67.75
1	35	646	1.21	-3.53e-02	0.31	0.87	0.56	981.32	355.59	382.08	954.83	126.00
1	35	647	0.82	-0.59	-0.42	0.65	0.46	954.36	371.08	445.61	879.83	194.72
1	35	648	0.57	-1.72	-1.69	0.55	0.26	923.34	351.09	540.48	733.96	269.27
1	35	649	0.50	-3.47	-3.44	0.48	0.29	920.60	255.95	664.79	511.76	323.39
1	35	650	0.20	-5.20	-5.17	0.17	0.43	988.81	47.51	812.12	224.20	367.56
1	35	651	0.25	-0.86	-0.63	1.58e-02	-0.45	820.26	-139.43	543.82	137.01	-434.61
1	35	652	0.93	-5.01e-02	0.18	0.70	0.42	798.92	-10.32	481.34	307.26	-395.15
1	35	653	2.00	0.49	1.97	0.52	-0.22	842.78	108.76	388.55	562.98	-356.50
1	35	654	2.68	0.69	2.38	1.00	-0.71	896.57	194.06	332.29	758.34	-279.29
1	35	655	2.37	1.09	2.04	1.43	-0.56	943.30	239.01	299.10	883.21	-196.75
1	35	656	1.87	1.42	1.64	1.65	-0.22	978.31	259.51	278.87	958.95	-116.37

1	35	657	1.79	1.25	1.25	1.78	6.29e-02	1007.17	264.36	267.37	1004.15	-47.22
1	35	658	1.97	0.89	1.00	1.86	0.33	1031.68	264.12	264.55	1031.26	18.01
1	35	659	2.17	0.29	0.56	1.90	0.66	1052.29	258.03	267.47	1042.85	86.07
1	35	660	2.22	-0.17	0.23	1.82	0.89	1062.18	243.52	277.92	1027.78	164.26
1	35	661	1.92	-0.57	-0.22	1.56	0.87	1052.41	207.43	299.38	960.45	263.15
1	35	662	1.52	-1.49	-1.40	1.44	0.51	1017.16	127.30	345.18	799.28	382.63
1	35	663	1.62	-3.69	-3.66	1.59	0.41	953.48	2.09e-02	427.65	525.85	474.19
1	35	664	0.89	-5.56	-5.28	0.60	1.33	926.09	-197.88	530.60	197.60	536.75
1	35	665	-1.20	-5.45	-5.34	-1.31	0.68	481.91	-446.79	38.93	-3.81	-463.86
1	35	666	4.13	-0.49	2.46	1.18	2.22	628.75	-276.80	91.79	260.17	-444.88
1	35	667	4.55	0.58	2.36	2.77	-1.97	859.64	-162.63	74.22	622.80	-431.31
1	35	668	3.57	1.28	2.15	2.70	-1.11	948.83	0.11	116.29	832.65	-311.02
1	35	669	3.00	1.32	1.69	2.64	-0.69	1011.58	102.49	152.61	961.45	-207.50
1	35	670	2.66	1.19	1.24	2.61	-0.27	1046.95	160.61	177.16	1030.40	-120.00
1	35	671	2.64	0.86	0.86	2.64	5.02e-02	1072.67	186.21	188.87	1070.01	-48.47
1	35	672	2.82	0.57	0.63	2.77	0.34	1097.36	191.98	192.33	1097.01	17.80
1	35	673	3.17	3.97e-02	0.21	3.00	0.70	1122.90	172.83	180.77	1114.96	86.51
1	35	674	3.58	-0.35	-4.28e-02	3.27	1.06	1142.49	129.09	157.39	1114.19	166.96
1	35	675	3.98	-0.68	-0.29	3.58	1.30	1144.80	43.35	117.11	1071.04	275.31
1	35	676	3.90	0.34	0.59	3.64	0.92	1106.99	-89.90	93.81	923.28	431.44
1	35	677	4.29	-4.01	-3.85	4.13	1.14	927.30	-313.75	53.33	560.22	566.41
1	35	678	-2.10	-6.26	-5.91	-2.45	1.16	659.17	-558.55	9.15	91.47	607.47
1	35	679	13.06	-13.54	12.52	-13.00	-3.76	40.45	-683.04	-438.32	-204.27	-342.29
1	35	680	0.92	-7.51	-7.34	0.75	1.18	426.48	-914.82	-549.02	60.68	-597.36
1	35	681	4.01	-1.25	-1.24	4.00	0.23	818.99	-543.38	-387.83	663.43	-433.27
1	35	682	4.44	0.74	0.82	4.36	-0.54	989.47	-202.13	-143.82	931.16	-257.06
1	35	683	3.80	1.36	1.40	3.77	-0.29	1068.06	-11.63	13.39	1043.04	-162.45
1	35	684	3.44	0.90	0.90	3.44	-4.64e-02	1106.33	78.60	86.80	1098.13	-91.41
1	35	685	3.37	0.53	0.54	3.36	0.14	1131.92	120.54	121.81	1130.65	-35.90
1	35	686	3.56	0.28	0.30	3.53	0.29	1156.88	131.13	131.31	1156.70	13.59
1	35	687	4.04	-0.19	-0.12	3.97	0.52	1184.37	102.84	106.87	1180.34	65.86
1	35	688	4.81	-0.47	-0.36	4.70	0.76	1207.28	36.84	51.16	1192.96	128.68
1	35	689	5.93	1.35	1.51	5.77	0.85	1212.79	-53.54	-16.74	1176.00	212.71
1	35	690	8.19	3.11	3.12	8.18	-0.28	1194.57	-255.10	-154.07	1093.54	369.13
1	35	691	7.52	-4.34	0.25	2.93	-5.78	894.66	-792.71	-496.18	598.13	642.20
1	35	692	11.55	-10.70	11.28	-10.44	-2.41	288.12	-924.15	-569.96	-66.07	551.29
1	35	693	3.24	-1.11	0.79	1.34	-2.15	696.63	53.79	173.28	577.14	250.07
1	35	694	18.43	-12.12	18.40	-12.09	-1.00	192.45	-1652.69	-1649.74	189.49	-73.77
1	35	695	10.18	8.00	9.19	8.99	-1.08	861.42	-625.38	-621.84	857.88	-72.41
1	35	696	5.08	1.03	1.05	5.06	0.26	1003.23	-288.64	-286.30	1000.90	-54.90
1	35	697	4.29	1.30	1.38	4.21	0.49	1100.07	-61.43	-60.13	1098.78	-38.77
1	35	698	3.84	0.73	0.79	3.78	0.45	1146.48	39.85	40.25	1146.08	-21.05
1	35	699	3.70	0.39	0.42	3.66	0.34	1175.21	87.08	87.09	1175.20	-3.24
1	35	700	3.84	0.19	0.20	3.83	0.21	1201.00	98.77	98.94	1200.84	13.40
1	35	701	4.32	-2.97e-03	2.44e-05	4.31	0.11	1227.48	71.95	72.88	1226.54	32.80
1	35	702	5.09	5.89e-03	7.09e-03	5.09	-7.82e-02	1246.84	2.09	4.11	1244.82	50.16
1	35	703	6.05	2.73	2.76	6.03	-0.28	1246.41	-95.13	-92.23	1243.52	62.27
1	35	704	9.59	5.00	9.48	5.10	0.70	1248.31	-334.67	-331.59	1245.22	69.80
1	35	705	25.71	-19.01	25.68	-18.97	1.23	1093.04	-950.28	-946.64	1089.40	86.15
1	35	706	4.08	-5.33	1.05	-2.30	-4.39	367.43	-60.91	231.38	75.14	199.42
1	35	707	4.25	0.56	4.23	0.58	0.27	218.65	-278.61	-248.38	188.42	-118.81
1	35	708	4.79	2.40	2.50	4.69	-0.47	677.33	-18.38	21.47	637.47	-161.68
1	35	709	2.79	0.12	0.14	2.77	-0.22	890.64	27.25	53.41	864.48	-147.98
1	35	710	2.33	5.47e-02	5.80e-02	2.33	-8.64e-02	1014.01	45.52	57.59	1001.94	-107.46
1	35	711	2.30	7.52e-02	7.59e-02	2.30	3.96e-02	1083.29	49.62	53.71	1079.20	-64.88
1	35	712	2.41	6.38e-02	7.42e-02	2.40	0.16	1124.64	49.76	50.31	1124.09	-24.16
1	35	713	2.63	4.63e-02	6.84e-02	2.61	0.24	1151.06	50.26	50.27	1151.06	2.30
1	35	714	2.97	2.95e-02	5.80e-02	2.94	0.29	1163.75	53.43	54.81	1162.37	39.09
1	35	715	3.50	1.35e-02	4.86e-02	3.47	0.35	1155.05	57.08	62.91	1149.23	79.74
1	35	716	4.48	0.20	0.28	4.40	0.58	1111.89	56.43	73.00	1095.32	131.20
1	35	717	4.96	2.21	3.18	3.99	1.31	997.86	42.44	77.01	963.29	178.42
1	35	718	9.52	-4.82	9.48	-4.78	-0.74	770.31	-40.92	0.96	728.44	179.49
1	35	719	9.35	-8.70	8.27	-7.62	4.27	-413.27	-716.89	-714.74	-415.43	25.50
1	35	720	2.49	-6.92	-5.16	0.73	-3.67	209.46	-981.34	-792.16	20.28	435.30
1	35	721	2.20	-2.49	-1.77	1.48	1.70	737.63	-584.16	-536.48	689.94	246.48
1	35	722	4.46	0.36	0.68	4.13	1.11	990.75	-221.44	-214.01	983.33	94.56
1	35	723	4.13	1.05	1.39	3.79	0.96	1095.97	-30.26	-28.10	1093.80	49.29
1	35	724	3.73	0.69	0.90	3.52	0.77	1150.75	56.96	57.79	1149.93	29.98
1	35	725	3.54	0.45	0.54	3.46	0.50	1183.39	97.35	97.80	1182.94	22.12
1	35	726	3.62	0.31	0.32	3.60	0.22	1209.43	106.95	107.22	1209.17	17.05
1	35	727	3.96	0.15	0.15	3.95	-0.11	1232.81	85.13	85.25	1232.69	11.75
1	35	728	4.53	0.45	0.51	4.46	-0.51	1244.78	32.11	32.13	1244.77	-4.31
1	35	729	5.27	1.81	2.08	5.00	-0.92	1226.58	-63.31	-61.63	1224.90	-46.58
1	35	730	5.41	1.90	2.11	5.20	-0.83	1152.09	-291.73	-269.07	1129.42	-179.48
1	35	731	10.95	-3.87	3.91	3.18	7.40	837.34	-774.01	-652.37	715.69	-425.70
1	35	732	7.48	-6.66	7.02	-6.20	2.51	-135.75	-969.99	-864.35	-241.39	-277.43

1	35	733	-0.85	-8.82	-8.40	-1.27	1.79	186.55	-404.58	-179.96	-38.07	286.92
1	35	734	5.21	1.02	2.23	4.00	-1.89	418.31	-219.73	-53.99	252.57	279.79
1	35	735	3.83	0.75	1.23	3.35	1.12	772.87	-183.54	-85.27	674.61	290.38
1	35	736	3.37	0.68	1.33	2.72	1.15	948.42	-40.01	-6.03	914.45	180.08
1	35	737	3.45	0.96	1.60	2.81	1.08	1068.63	62.13	75.05	1055.71	113.30
1	35	738	3.23	0.55	0.92	2.86	0.93	1134.80	108.26	112.71	1130.34	67.47
1	35	739	3.09	0.53	0.70	2.92	0.64	1173.73	134.67	136.10	1172.30	38.54
1	35	740	3.06	0.61	0.64	3.03	0.27	1200.35	143.14	143.38	1200.10	16.07
1	35	741	3.17	0.84	0.84	3.16	-0.12	1217.53	139.21	139.32	1217.42	-10.77
1	35	742	3.38	1.03	1.14	3.28	-0.48	1215.47	110.47	113.50	1212.44	-57.85
1	35	743	3.52	1.22	1.42	3.32	-0.65	1177.02	48.36	63.19	1162.19	-128.53
1	35	744	3.87	7.01e-02	0.10	3.84	0.34	1064.43	-91.33	-27.59	1000.69	-263.84
1	35	745	7.02	-5.47	-5.20	6.76	-1.81	782.96	-274.15	-73.31	582.11	-414.70
1	35	746	0.90	-6.96	-4.01	-2.04	-3.81	413.73	-499.03	-165.18	79.88	-439.62
1	35	747	1.32	-1.36	-0.28	0.24	1.32	561.27	-24.42	399.72	137.13	261.76
1	35	748	1.58	-0.35	-0.32	1.55	0.24	570.82	91.92	337.81	324.93	239.36
1	35	749	1.40	0.91	1.10	1.21	0.24	725.56	151.35	252.46	624.45	218.72
1	35	750	2.33	1.06	1.93	1.45	0.59	898.78	175.91	213.38	861.30	160.27
1	35	751	2.45	0.81	1.41	1.85	0.79	1025.99	177.36	192.52	1010.83	112.42
1	35	752	2.68	0.65	1.20	2.14	0.90	1105.32	184.91	190.97	1099.26	74.41
1	35	753	2.59	0.69	0.98	2.30	0.68	1151.91	191.88	193.81	1149.98	42.95
1	35	754	2.47	0.85	0.95	2.37	0.39	1178.84	194.98	195.25	1178.56	16.34
1	35	755	2.38	1.25	1.27	2.36	0.13	1188.31	206.69	206.93	1188.07	-15.44
1	35	756	2.23	1.24	1.24	2.22	-8.61e-02	1169.11	207.98	211.92	1165.17	-61.41
1	35	757	2.06	-0.18	-0.17	2.05	-0.19	1102.14	182.48	202.57	1082.05	-134.41
1	35	758	2.34	-1.60	-1.55	2.29	-0.42	968.83	161.30	240.55	889.58	-240.23
1	35	759	2.94	-3.79	-3.48	2.63	-1.41	790.54	98.04	317.41	571.17	-322.16
1	35	760	2.19	-4.90	-3.76	1.04	-2.61	692.43	-63.63	422.24	206.55	-362.32
1	35	761	0.22	-0.73	-0.62	0.11	0.31	685.50	158.87	657.81	186.56	117.53
1	35	762	0.50	-1.58e-02	1.61e-02	0.47	0.12	614.44	316.76	571.96	359.23	104.12
1	35	763	1.16	0.62	1.14	0.63	8.92e-02	665.71	400.58	446.69	619.60	100.49
1	35	764	1.89	0.81	1.79	0.91	0.32	849.05	336.24	350.90	834.38	85.47
1	35	765	1.84	0.62	1.15	1.31	0.60	989.12	271.18	277.47	982.83	66.90
1	35	766	2.12	0.44	0.91	1.66	0.75	1078.12	241.81	244.33	1075.61	45.79
1	35	767	2.24	0.76	1.14	1.86	0.64	1130.84	242.36	243.05	1130.15	24.72
1	35	768	2.17	0.85	1.10	1.92	0.51	1158.60	239.41	239.45	1158.55	6.45
1	35	769	2.07	1.12	1.35	1.84	0.40	1162.32	259.57	259.78	1162.12	-13.67
1	35	770	1.82	1.05	1.22	1.66	0.32	1129.57	285.53	287.28	1127.82	-38.40
1	35	771	1.49	-0.26	-0.24	1.46	0.22	1037.89	311.32	318.97	1030.24	-74.17
1	35	772	1.41	-1.38	-1.36	1.39	-0.25	876.57	370.30	403.22	843.65	-124.83
1	35	773	1.38	-2.94	-2.72	1.16	-0.95	715.39	377.89	523.35	569.93	-167.14
1	35	774	0.72	-4.14	-3.89	0.47	-1.07	741.99	169.58	670.25	241.32	-189.52
1	35	775	6.85e-02	-0.87	-0.87	6.77e-02	-2.79e-02	695.42	191.71	695.20	191.93	-10.40
1	35	776	0.27	2.32e-04	2.55e-04	0.27	-2.49e-03	611.68	364.07	611.37	364.39	-8.85
1	35	777	1.15	0.47	1.15	0.47	6.62e-03	626.45	480.98	485.25	622.18	-24.56
1	35	778	1.04	0.67	0.90	0.80	0.18	833.27	368.12	368.25	833.14	-7.92
1	35	779	1.35	0.33	0.47	1.21	0.36	978.82	294.16	294.29	978.69	9.61
1	35	780	1.75	0.48	0.70	1.54	0.48	1069.33	266.45	266.57	1069.21	9.63
1	35	781	2.04	0.72	1.04	1.72	0.57	1122.08	262.88	262.90	1122.06	4.39
1	35	782	2.14	0.71	1.07	1.78	0.62	1149.13	262.46	262.47	1149.13	1.06
1	35	783	2.20	0.78	1.28	1.70	0.67	1151.12	279.89	279.89	1151.12	-0.63
1	35	784	2.16	0.76	1.41	1.51	0.70	1115.42	318.21	318.22	1115.41	2.66
1	35	785	1.51	-0.42	-0.17	1.27	0.64	1018.04	347.21	347.31	1017.93	8.32
1	35	786	1.08	-1.17	-1.13	1.04	0.31	835.40	431.60	431.80	835.19	9.12
1	35	787	0.72	-2.45	-2.45	0.71	-7.42e-02	600.14	520.96	553.30	567.81	38.92
1	35	788	0.22	-3.98	-3.97	0.22	-9.63e-02	712.36	235.18	705.67	241.88	56.12
1	35	789	0.20	-1.23	-1.00	-3.40e-02	-0.53	581.09	97.88	524.39	154.58	-155.51
1	35	790	0.73	-0.20	-0.20	0.73	-4.57e-02	559.67	243.80	462.60	340.87	-145.73
1	35	791	1.26	0.61	1.18	0.68	-0.21	682.65	321.05	371.24	632.45	-125.02
1	35	792	1.21	2.87e-02	0.11	1.13	-0.29	870.16	271.97	284.43	857.70	-85.41
1	35	793	1.56	0.88	0.89	1.55	-5.77e-02	1000.06	271.60	273.62	998.05	-38.26
1	35	794	1.82	0.66	0.71	1.77	0.25	1080.40	258.62	258.88	1080.14	-14.67
1	35	795	2.09	0.66	0.87	1.88	0.50	1126.87	260.27	260.28	1126.86	-3.62
1	35	796	2.29	0.52	0.86	1.94	0.70	1151.88	261.03	261.06	1151.85	4.73
1	35	797	2.45	0.42	0.93	1.94	0.88	1156.56	272.76	273.05	1156.27	16.05
1	35	798	2.47	0.13	0.77	1.83	1.05	1130.60	283.98	285.63	1128.95	37.30
1	35	799	2.26	-0.13	0.56	1.57	1.08	1051.96	299.47	306.82	1044.61	74.00
1	35	800	1.62	-1.26	-0.94	1.31	0.90	895.93	298.93	332.65	862.21	137.82
1	35	801	1.24	-2.46	-2.32	1.11	0.70	703.25	274.86	412.73	565.37	200.13
1	35	802	0.32	-3.88	-3.76	0.20	0.69	638.23	96.19	522.63	211.80	222.03
1	35	803	-1.18	-4.20	-4.16	-1.23	-0.35	242.44	-166.93	53.59	21.92	-204.07
1	35	804	2.14	1.50	1.51	2.13	8.58e-02	448.73	-32.47	136.39	279.87	-229.65
1	35	805	2.43	-0.26	0.25	1.91	-1.06	742.37	38.54	100.60	680.31	-199.56
1	35	806	2.70	0.22	0.54	2.38	-0.84	922.47	146.15	161.75	906.87	-108.94
1	35	807	2.34	0.46	0.49	2.30	-0.24	1035.32	201.13	204.22	1032.23	-50.65
1	35	808	2.26	0.69	0.72	2.23	0.19	1100.55	230.28	230.79	1100.05	-20.90

1	35	809	2.36	0.46	0.60	2.22	0.50	1138.42	239.28	239.31	1138.38	-5.81
1	35	810	2.56	0.31	0.57	2.29	0.73	1161.20	244.25	244.28	1161.17	5.28
1	35	811	2.81	3.09e-02	0.40	2.44	0.94	1170.20	242.54	242.97	1169.76	19.99
1	35	812	3.14	-0.28	0.22	2.64	1.21	1157.41	230.56	232.71	1155.26	44.55
1	35	813	3.53	-0.33	0.43	2.77	1.54	1105.75	202.26	210.80	1097.21	87.43
1	35	814	2.81	-0.31	7.13e-02	2.43	1.02	979.28	110.33	146.16	943.44	172.79
1	35	815	4.17	-3.86	-3.14	3.45	2.29	722.75	-51.13	98.26	573.37	305.43
1	35	816	-1.03	-2.05	-1.60	-1.49	0.51	395.98	-207.65	76.69	111.64	301.31
1	35	817	11.64	-3.59	11.36	-3.31	-2.05	-429.35	-555.33	-553.24	-431.45	16.11
1	35	818	-1.61	-4.55	-3.11	-3.05	1.47	325.40	-641.87	-495.43	178.96	-346.70
1	35	819	5.54	-2.18	-9.94e-02	3.46	-3.43	754.62	-190.69	-165.15	729.09	-153.25
1	35	820	3.90	-0.14	-9.73e-02	3.86	-0.41	958.35	44.34	47.69	955.01	-55.22
1	35	821	3.05	0.10	0.11	3.04	0.11	1060.35	145.64	146.12	1059.88	-20.82
1	35	822	2.72	0.24	0.30	2.65	0.39	1115.10	196.40	196.46	1115.04	-7.23
1	35	823	2.66	0.24	0.38	2.52	0.57	1147.12	219.74	219.74	1147.12	6.26e-02
1	35	824	2.80	0.17	0.37	2.60	0.69	1168.30	227.12	227.13	1168.28	3.29
1	35	825	3.10	4.30e-02	0.26	2.88	0.79	1180.18	221.29	221.40	1180.06	10.69
1	35	826	3.71	-0.17	5.90e-02	3.48	0.91	1174.95	194.97	195.54	1174.39	23.49
1	35	827	4.74	-0.92	-0.67	4.49	1.17	1134.87	125.27	127.27	1132.87	44.91
1	35	828	6.73	-1.32	-4.52e-02	5.46	2.93	1044.78	-11.41	-0.24	1033.61	108.04
1	35	829	3.77	-1.33	2.85	-0.40	-1.96	800.10	-376.65	-307.98	731.43	275.85
1	35	830	9.50	-3.65	8.47	-2.61	-3.54	-236.12	-704.97	-640.74	-300.35	161.21
1	35	831	23.16	1.24	23.09	1.30	-1.18	347.90	-688.70	-688.43	347.63	-16.81
1	35	832	12.18	0.46	0.63	12.02	1.38	838.13	-176.55	-176.30	837.88	15.93
1	35	833	3.98	0.22	0.24	3.96	0.25	962.63	24.32	24.54	962.40	14.39
1	35	834	3.21	0.25	0.34	3.12	0.51	1063.20	138.62	138.79	1063.04	12.38
1	35	835	2.85	0.12	0.25	2.72	0.58	1115.83	188.01	188.09	1115.75	8.71
1	35	836	2.76	0.16	0.33	2.60	0.63	1146.96	212.93	212.96	1146.93	5.03
1	35	837	2.84	0.14	0.31	2.67	0.66	1167.79	220.81	220.82	1167.79	1.12
1	35	838	3.10	7.68e-02	0.22	2.96	0.64	1180.19	214.20	214.20	1180.19	1.40
1	35	839	3.60	-0.16	-7.11e-02	3.52	0.56	1175.47	184.24	184.31	1175.40	8.23
1	35	840	4.90	0.55	0.56	4.89	0.18	1142.23	131.40	131.42	1142.22	3.92
1	35	841	10.37	-0.88	-0.67	10.16	-1.54	1098.31	-28.00	-27.78	1098.10	-15.72
1	35	842	23.76	0.68	23.74	0.70	0.60	956.45	-124.16	-124.08	956.37	-9.27
1	35	843	3.02	-0.61	0.93	1.49	-1.79	-568.44	-705.56	-684.04	-589.95	-49.88
1	35	844	2.80	-4.32	0.85	-2.38	-3.17	371.42	-715.52	-587.11	243.02	350.83
1	35	845	5.70	-3.45	3.57e-03	2.25	4.44	747.62	-224.13	-203.31	726.80	140.69
1	35	846	4.10	-0.93	-0.76	3.93	0.91	959.80	12.75	15.38	957.17	49.88
1	35	847	3.24	-0.19	-5.41e-02	3.11	0.67	1059.93	129.22	130.26	1058.89	31.02
1	35	848	2.93	-2.01e-02	0.17	2.74	0.73	1114.24	183.01	183.83	1113.41	27.76
1	35	849	2.80	0.10	0.29	2.61	0.68	1145.05	208.59	208.77	1144.88	12.80
1	35	850	2.84	0.15	0.31	2.68	0.63	1165.86	216.93	216.93	1165.86	-0.58
1	35	851	3.05	0.20	0.29	2.96	0.52	1178.01	210.86	210.90	1177.98	5.84
1	35	852	3.52	0.16	0.16	3.51	0.11	1173.26	184.12	184.13	1173.25	-3.14
1	35	853	4.64	-9.94e-02	8.72e-02	4.46	-0.92	1133.76	120.68	121.93	1132.52	-35.49
1	35	854	5.65	-2.44	-0.24	3.44	-3.60	1039.13	-38.06	-27.21	1028.28	-107.54
1	35	855	8.61	-0.85	7.62	0.14	2.90	864.67	-395.81	-345.52	814.37	-246.70
1	35	856	6.08	-8.66	-2.64	5.90e-02	7.25	-363.47	-811.58	-742.96	-432.09	-161.36
1	35	857	-3.62e-02	-5.75	-5.26	-0.52	1.60	195.01	-197.39	-2.56	0.19	196.20
1	35	858	4.09	1.99	2.00	4.08	0.14	423.19	-97.05	73.73	252.41	244.30
1	35	859	2.20	-9.43e-02	7.90e-02	2.02	0.61	744.27	-42.66	20.87	680.74	214.38
1	35	860	2.92	-6.99e-02	0.29	2.57	0.97	923.35	88.70	105.71	906.34	117.94
1	35	861	2.81	-1.79e-02	0.23	2.57	0.80	1034.52	156.87	162.04	1029.35	67.15
1	35	862	2.82	-5.64e-02	0.26	2.50	0.90	1097.63	190.92	193.17	1095.38	45.08
1	35	863	2.73	0.13	0.36	2.50	0.74	1133.25	208.75	209.78	1132.22	30.84
1	35	864	2.71	0.24	0.40	2.55	0.60	1154.75	215.56	215.79	1154.52	14.60
1	35	865	2.74	0.43	0.49	2.67	0.39	1164.28	214.34	214.34	1164.27	-2.17
1	35	866	2.83	0.61	0.62	2.82	-0.17	1152.65	200.02	200.87	1151.80	-28.44
1	35	867	3.10	0.19	0.52	2.77	-0.93	1103.80	153.21	160.18	1096.84	-81.09
1	35	868	2.51	0.50	0.55	2.46	-0.31	979.72	57.29	86.63	950.38	-161.89
1	35	869	5.73	-2.54	-2.09	5.28	-1.88	728.13	-103.32	51.12	573.69	-323.35
1	35	870	1.01	-4.12	-3.06	-5.12e-02	-2.08	371.25	-243.19	28.66	99.40	-305.18
1	35	871	0.79	-1.48	-0.87	0.17	1.01	490.70	64.29	415.96	139.03	162.13
1	35	872	1.53	-0.56	-0.34	1.31	0.64	498.61	185.26	362.20	321.67	155.36
1	35	873	1.47	0.17	0.51	1.13	0.57	671.52	232.38	282.61	621.29	139.77
1	35	874	1.91	0.19	0.59	1.50	0.73	869.59	215.37	233.31	851.65	106.84
1	35	875	2.31	0.19	0.55	1.96	0.79	996.63	212.73	218.62	990.75	67.65
1	35	876	2.50	0.15	0.47	2.19	0.80	1072.37	212.24	214.59	1070.01	44.97
1	35	877	2.54	0.20	0.45	2.30	0.71	1115.19	213.75	214.71	1114.23	29.36
1	35	878	2.53	0.32	0.51	2.35	0.61	1138.46	217.58	217.66	1138.38	8.79
1	35	879	2.45	0.53	0.64	2.33	0.46	1144.83	223.06	223.06	1144.82	-2.65
1	35	880	2.19	0.82	0.84	2.17	0.17	1123.29	229.38	230.29	1122.37	-28.64
1	35	881	1.87	1.02	1.03	1.86	-0.11	1050.55	236.59	242.79	1044.35	-70.78
1	35	882	1.87	0.12	0.23	1.76	-0.43	891.40	243.62	270.21	864.82	-128.51
1	35	883	2.05	-1.71	-1.39	1.73	-1.05	689.57	210.72	339.97	560.32	-212.58
1	35	884	1.17	-2.83	-2.24	0.57	-1.43	592.22	61.45	451.17	202.49	-234.45

1	35	885	8.96e-02	-1.09	-1.03	3.31e-02	0.25	579.77	150.22	562.93	167.05	83.36
1	35	886	0.64	-0.40	-0.29	0.54	0.32	523.02	306.21	491.42	337.81	76.50
1	35	887	0.91	0.25	0.35	0.80	0.24	619.67	361.02	375.80	604.89	60.05
1	35	888	1.42	0.56	0.70	1.28	0.32	824.09	293.88	296.17	821.81	34.70
1	35	889	1.90	0.46	0.64	1.73	0.47	966.48	245.68	246.48	965.68	24.02
1	35	890	2.21	0.35	0.54	2.02	0.56	1051.71	219.78	219.99	1051.50	13.19
1	35	891	2.39	0.29	0.48	2.19	0.61	1100.22	209.07	209.09	1100.20	4.52
1	35	892	2.47	0.32	0.52	2.27	0.62	1125.86	208.99	209.01	1125.84	-4.18
1	35	893	2.45	0.44	0.65	2.24	0.61	1130.67	219.95	220.02	1130.61	-7.86
1	35	894	2.31	0.62	0.87	2.06	0.60	1103.41	242.01	242.15	1103.27	-10.80
1	35	895	1.97	0.76	1.02	1.71	0.49	1017.87	280.63	281.10	1017.39	-18.73
1	35	896	1.37	0.67	0.69	1.35	0.12	839.48	349.35	350.51	838.31	-23.86
1	35	897	1.15	-0.94	-0.86	1.07	-0.39	562.88	449.66	452.74	559.81	-18.41
1	35	898	0.38	-2.51	-2.46	0.33	-0.38	591.09	224.18	589.87	225.41	-21.16
1	35	899	0.48	-2.07	-2.04	0.45	0.26	487.13	126.95	482.52	131.56	-40.48
1	35	900	0.93	0.55	0.80	0.68	0.18	463.69	293.97	442.88	314.79	-55.67
1	35	901	1.56	8.61e-02	0.40	1.24	-0.60	618.59	317.16	333.13	602.62	-67.53
1	35	902	1.66	0.55	0.60	1.61	-0.23	822.87	264.38	268.07	819.18	-45.24
1	35	903	1.87	0.52	0.52	1.86	8.27e-02	963.62	221.55	222.62	962.55	-28.11
1	35	904	2.12	0.36	0.42	2.06	0.31	1047.95	193.47	193.73	1047.69	-14.91
1	35	905	2.33	0.28	0.39	2.23	0.46	1096.68	180.68	180.68	1096.68	-2.04
1	35	906	2.51	0.25	0.40	2.36	0.57	1123.02	179.58	179.59	1123.02	-1.83
1	35	907	2.67	0.28	0.50	2.45	0.70	1128.52	192.07	192.16	1128.43	8.97
1	35	908	2.81	0.32	0.68	2.45	0.87	1103.55	216.98	217.54	1102.99	22.39
1	35	909	9.33	-7.51	-6.32	8.14	4.31	1002.44	-998.98	-674.16	677.63	737.96
1	35	910	2.84	-4.29	0.83	-2.29	3.21	486.90	-1352.43	-899.69	34.17	792.32
1	35	911	9.76	-28.27	-22.14	3.63	13.98	124.99	-502.64	-485.95	108.31	100.97
1	35	912	20.69	5.23	20.69	5.23	-2.23e-02	407.40	-1813.64	-1813.54	407.30	15.35
1	35	913	12.80	-8.04	-7.77	12.53	-2.36	473.78	-2394.01	-2393.79	473.57	-24.65
1	35	914	13.91	-11.22	-8.79	11.48	-7.44	479.51	-2288.06	-2287.60	479.05	-35.64
1	35	915	8.26	-4.41	6.60	-2.75	-4.28	410.18	-1035.58	-1035.31	409.92	19.58
1	35	916	5.78	-15.36	-11.94	2.36	-7.79	94.23	-291.93	-291.55	93.85	-12.09
1	35	917	5.30	-4.36	2.09	-1.14	4.55	268.02	-254.73	74.05	-60.75	-252.54
1	35	918	3.23	-4.35	-2.32	1.19	-3.36	944.91	-113.39	844.71	-13.19	-309.84
1	35	919	-0.78	-6.18	-6.17	-0.79	-0.17	1218.29	-42.24	1186.40	-10.35	-197.94
1	35	920	-0.28	-5.83	-5.83	-0.29	9.07e-02	1325.18	-13.53	1318.46	-6.81	-94.62
1	35	921	-0.20	-5.36	-5.36	-0.21	7.26e-02	1330.59	-7.76	1330.56	-7.74	-5.84
1	35	922	-0.18	-5.03	-5.03	-0.18	4.64e-02	1257.21	-20.22	1244.96	-7.97	124.47
1	35	923	-0.19	-4.74	-4.74	-0.20	0.11	1090.53	-53.00	1045.02	-7.49	223.55
1	35	924	-0.23	-4.37	-4.34	-0.26	0.34	809.06	-132.41	680.84	-4.19	322.92
1	35	925	0.26	-2.18	-0.83	-1.09	1.21	440.60	-400.17	56.95	-16.52	418.77
1	35	926	29.85	-26.17	15.33	-11.66	-24.55	-398.12	-2982.35	-2973.79	-406.68	-148.50
1	35	927	8.28	0.66	0.66	8.28	5.27e-02	-111.33	-232.87	-217.34	-126.86	40.58
1	35	928	29.55	-42.10	15.24	-27.78	28.65	-634.88	-2698.84	-2681.53	-652.19	188.24
1	35	929	16.55	0.96	8.87	8.64	-7.79	361.38	-926.83	-666.85	101.40	-517.03
1	35	930	0.12	-2.74	-1.97	-0.64	-1.27	564.60	-276.75	290.85	-2.99	-394.18
1	35	931	-0.25	-5.17	-5.16	-0.26	-0.19	841.28	-100.12	744.07	-2.92	-286.45
1	35	932	-0.21	-5.33	-5.33	-0.21	-1.42e-02	1050.54	-39.23	1019.01	-7.70	-182.66
1	35	933	-0.16	-5.45	-5.45	-0.16	5.18e-04	1140.27	-15.15	1134.69	-9.57	-80.08
1	35	934	-0.15	-5.52	-5.52	-0.15	-4.00e-03	1133.06	-12.09	1131.53	-10.56	41.89
1	35	935	-0.17	-5.40	-5.40	-0.17	4.67e-02	1030.60	-26.69	1015.05	-11.14	127.27
1	35	936	-0.25	-5.20	-5.19	-0.26	0.21	809.57	-70.07	749.84	-10.35	221.30
1	35	937	-0.54	-2.29	-1.75	-1.08	0.81	473.54	-216.36	279.75	-22.57	310.06
1	35	938	7.80	-2.21	5.32	0.27	4.32	163.96	-786.82	-626.89	4.04	355.64
1	35	939	22.71	-15.15	11.46	-3.90	-17.30	-247.29	-2158.33	-2156.25	-249.38	-63.10
1	35	940	22.40	-26.77	11.93	-16.30	20.13	-450.14	-1895.56	-1883.63	-462.07	130.80
1	35	941	11.80	1.29e-02	6.05	5.76	-5.89	286.06	-481.29	-248.61	53.38	-352.71
1	35	942	-0.45	-5.67	-5.50	-0.62	-0.93	548.77	-118.30	443.18	-12.71	-243.49
1	35	943	-0.26	-6.66	-6.66	-0.26	-0.16	827.28	-35.90	803.46	-12.08	-141.41
1	35	944	-0.22	-6.99	-6.99	-0.23	-2.86e-02	934.29	-17.84	932.19	-15.73	-44.69
1	35	945	-0.16	-6.86	-6.86	-0.16	0.15	874.21	-28.64	862.88	-17.31	100.52
1	35	946	0.29	-3.17	-2.87	-6.55e-03	0.97	686.94	-67.01	635.85	-15.92	189.50
1	35	947	12.11	1.89	6.54	7.46	5.09	372.64	-262.86	65.26	44.53	317.58
1	35	948	13.14	-39.47	5.36	-31.69	-18.67	-573.00	-1144.44	-1140.14	-577.31	-49.43
1	35	949	-0.37	-4.62	-4.56	-0.43	0.49	550.43	-51.65	539.93	-41.15	78.80
1	35	950	27.26	-25.39	19.68	-17.81	18.48	-444.04	-1651.47	-1650.10	-445.41	40.58
1	35	951	16.58	1.52	11.92	6.18	-6.96	363.52	-463.65	-142.50	42.36	-403.13
1	35	952	0.36	-2.14	-1.28	-0.50	-1.19	644.43	-139.32	520.87	-15.76	-285.61
1	35	953	-0.25	-6.37	-6.36	-0.26	-0.23	858.82	-59.15	814.18	-14.52	-197.44
1	35	954	-0.18	-6.83	-6.83	-0.18	-4.85e-02	1020.91	-27.01	1009.57	-15.67	-108.40
1	35	955	-0.14	-7.03	-7.03	-0.14	-2.93e-02	1080.58	-16.74	1080.04	-16.20	-24.22
1	35	956	-0.15	-7.15	-7.15	-0.15	-2.77e-02	1048.84	-23.84	1041.85	-16.84	86.34
1	35	957	-0.16	-7.08	-7.08	-0.16	0.10	922.78	-48.67	892.00	-17.89	170.17
1	35	958	-1.91e-03	-6.41	-6.30	-0.11	0.84	672.12	-111.83	578.16	-17.87	254.62
1	35	959	11.63	1.19	5.94	6.87	5.20	427.99	-323.39	68.68	35.92	375.33
1	35	960	13.92	-36.30	6.73	-29.11	-17.58	-545.46	-1106.64	-1106.34	-545.76	12.93

1	35	961	-1.17	-8.04	-4.88	-4.34	-3.42	94.36	-90.59	72.91	-69.14	59.21
1	35	962	24.59	-23.81	17.54	-16.77	17.07	-425.28	-1547.17	-1536.72	-435.74	107.78
1	35	963	15.05	1.91	11.12	5.84	-6.01	278.65	-332.20	-90.20	36.64	-298.77
1	35	964	0.49	-2.01	-1.16	-0.36	-1.18	585.04	-77.32	528.13	-20.41	-185.63
1	35	965	-0.26	-5.83	-5.82	-0.27	-0.23	761.65	-32.93	750.52	-21.79	-93.39
1	35	966	-0.29	-6.15	-6.15	-0.29	1.21e-02	792.70	-27.18	790.37	-24.85	43.67
1	35	967	-0.60	-5.82	-5.81	-0.61	0.27	602.02	-52.35	580.13	-30.46	117.66
1	35	968	1.97	-4.02	-3.04	0.99	2.22	199.32	-183.39	38.08	-22.15	188.97
1	35	969	8.94	-17.85	-0.15	-8.76	-12.68	-237.94	-1092.81	-1082.31	-248.44	-94.13
1	35	970	15.54	1.35	12.59	4.29	5.75	-110.28	-1148.34	-1147.33	-111.29	32.35
1	35	971	6.14	-1.70	3.59	0.85	-3.67	152.75	-196.79	-20.89	-23.15	-174.77
1	35	972	-0.61	-3.19	-3.04	-0.76	-0.60	545.86	-56.46	518.98	-29.58	-124.37
1	35	973	-0.55	-4.90	-4.90	-0.55	-2.21e-02	667.22	-28.15	667.15	-28.08	7.22
1	35	974	11.10	-1.31	7.62	2.16	5.57	212.90	-1252.81	-1088.12	48.21	462.88
1	35	975	-3.44	-26.33	-17.67	-12.11	-11.10	458.60	-395.87	-363.43	426.16	-163.31
1	35	976	10.51	-23.00	9.81	-22.30	4.80	748.37	-777.77	-777.64	748.24	-14.10
1	35	977	3.72	-15.61	-2.29	-9.60	8.94	930.28	-1773.34	-1772.33	929.26	52.31
1	35	978	16.40	-43.14	16.30	-43.05	-2.40	1247.89	-1291.76	-1291.65	1247.78	-16.54
1	35	979	28.04	-55.91	27.80	-55.67	-4.47	1653.87	-1722.69	-1722.67	1653.84	-8.29
1	35	980	0.36	-13.01	-1.61	-11.05	4.74	976.56	-1849.30	-1848.85	976.11	35.63
1	35	981	-1.81	-13.27	-8.34	-6.74	5.68	277.58	-229.28	-221.64	269.93	61.78
1	35	982	11.00	5.62	5.87	10.74	-1.15	212.66	-117.11	164.70	-69.15	116.26
1	35	983	0.14	-4.33	-2.82	-1.37	2.11	787.20	-112.64	760.58	-86.03	152.44
1	35	984	-0.33	-3.66	-3.65	-0.34	-0.19	1024.68	-66.82	1017.52	-59.66	88.07
1	35	985	-1.18e-02	-3.02	-3.02	-1.18e-02	-7.89e-03	1127.96	-53.30	1126.93	-52.27	34.85
1	35	986	9.26e-02	-2.82	-2.82	9.07e-02	7.41e-02	1136.58	-51.36	1135.77	-50.55	-30.95
1	35	987	7.61e-02	-2.82	-2.81	7.04e-02	0.13	1060.09	-55.34	1057.58	-52.83	-52.85
1	35	988	9.00e-03	-3.07	-3.06	-4.19e-03	0.20	885.34	-69.59	874.42	-58.67	-101.57
1	35	989	-0.34	-3.06	-3.01	-0.39	0.38	588.68	-100.19	560.17	-71.68	-137.20
1	35	990	-1.00	-4.09	-3.94	-1.14	0.65	131.90	-179.22	35.31	-82.63	-143.95
1	35	991	0.15	-5.64	-1.75	-3.73	-2.72	-131.61	-916.83	-881.67	-166.76	-162.39
1	35	992	31.11	8.46	17.42	22.16	11.08	71.66	-2377.33	-2362.25	56.58	191.57
1	35	993	31.37	-4.89	17.07	9.41	-17.72	-339.86	-2154.94	-2115.60	-379.20	-264.29
1	35	994	6.25	-4.35	0.18	1.72	5.24	1.69	-659.14	-586.61	-70.83	206.56
1	35	995	-0.32	-4.25	-4.23	-0.33	-0.23	191.94	-141.71	126.25	-76.02	132.67
1	35	996	-0.23	-2.92	-2.91	-0.24	-0.18	653.06	-85.73	635.83	-68.50	111.49
1	35	997	1.62e-02	-2.94	-2.94	1.46e-02	-6.80e-02	884.51	-64.29	879.22	-59.00	70.63
1	35	998	4.79e-02	-2.87	-2.87	4.79e-02	-9.25e-03	991.34	-54.56	990.93	-54.14	20.78
1	35	999	4.06e-02	-2.71	-2.71	4.00e-02	3.91e-02	997.56	-52.92	997.46	-52.83	-9.88
1	35	1000	-1.47e-02	-2.59	-2.59	-1.95e-02	0.11	905.30	-60.46	899.75	-54.91	-72.96
1	35	1001	-0.30	-2.25	-2.21	-0.33	0.25	696.78	-80.77	679.07	-63.06	-116.00
1	35	1002	-0.99	-3.58	-3.50	-1.07	0.44	302.59	-123.06	252.19	-72.66	-137.53
1	35	1003	-0.48	-5.41	-2.17	-3.72	-2.34	-85.98	-580.63	-522.30	-144.31	-159.53
1	35	1004	24.64	5.93	11.68	18.89	8.63	57.93	-1763.33	-1758.99	53.60	88.73
1	35	1005	24.25	-2.08	13.25	8.93	-12.99	-259.31	-1546.94	-1521.41	-284.85	-179.52
1	35	1006	4.81	-3.73	-8.42e-02	1.15	4.22	19.88	-314.87	-227.89	-67.10	146.80
1	35	1007	-0.31	-4.34	-4.34	-0.31	-6.38e-02	377.49	-80.59	364.56	-67.66	75.86
1	35	1008	-0.16	-3.15	-3.15	-0.17	-8.85e-02	741.13	-64.55	739.57	-62.99	35.43
1	35	1009	-3.13e-02	-3.40	-3.40	-3.13e-02	1.84e-03	859.95	-60.77	859.34	-60.16	-23.65
1	35	1010	-7.78e-02	-3.35	-3.35	-8.11e-02	0.10	809.03	-61.72	807.59	-60.29	-35.33
1	35	1011	0.11	-5.03	-5.03	0.11	6.92e-02	525.95	-77.88	511.76	-63.69	-91.48
1	35	1012	5.55	-3.95	-1.86	3.46	-3.93	172.74	-181.00	8.77	-17.03	-176.40
1	35	1013	14.04	-21.32	6.67	-13.95	14.36	-539.26	-979.48	-937.28	-581.46	129.60
1	35	1014	4.63	0.74	0.77	4.60	0.34	147.77	-65.34	147.77	-65.34	-0.87
1	35	1015	24.21	-8.30	16.37	-0.45	-13.91	-347.18	-1408.40	-1390.02	-365.56	-138.46
1	35	1016	6.08	-3.25	1.41	1.42	4.67	112.46	-376.00	-224.12	-39.42	226.10
1	35	1017	-0.43	-3.40	-3.40	-0.44	-0.17	422.95	-102.40	376.76	-56.22	148.76
1	35	1018	-0.22	-1.73	-1.72	-0.24	-0.15	809.81	-64.69	796.37	-51.25	107.58
1	35	1019	-2.42e-02	-2.14	-2.14	-2.51e-02	-4.29e-02	976.00	-49.25	973.20	-46.45	53.52
1	35	1020	1.25e-02	-2.23	-2.23	1.25e-02	7.14e-03	1041.63	-44.62	1041.56	-44.55	-8.96
1	35	1021	2.42e-03	-2.39	-2.39	9.92e-04	5.85e-02	1011.65	-47.44	1009.74	-45.53	-44.90
1	35	1022	-6.19e-02	-2.52	-2.52	-6.86e-02	0.13	883.37	-59.83	872.00	-48.46	-102.93
1	35	1023	5.09e-02	-1.67	-1.67	4.78e-02	7.32e-02	624.94	-87.84	591.57	-54.47	-150.58
1	35	1024	5.62	-4.20	-1.93	3.35	-4.14	234.49	-232.71	15.45	-13.67	-233.15
1	35	1025	14.19	-20.58	7.15	-13.53	13.98	-535.55	-904.04	-888.73	-550.86	73.54
1	35	1026	22.83	-7.96	15.90	-1.04	-12.86	-323.48	-1343.59	-1309.15	-357.92	-184.26
1	35	1027	5.91	-2.21	2.19	1.51	4.05	64.68	-268.06	-165.81	-37.57	153.52
1	35	1028	-0.41	-3.65	-3.65	-0.41	-5.00e-02	394.60	-72.99	381.75	-60.14	76.45
1	35	1029	-0.26	-2.77	-2.77	-0.26	-6.91e-02	716.97	-58.68	716.15	-57.86	25.18
1	35	1030	-0.18	-3.12	-3.12	-0.18	4.57e-02	750.23	-57.81	749.96	-57.54	-14.74
1	35	1031	-0.28	-2.62	-2.62	-0.28	4.12e-02	568.46	-64.53	564.60	-60.67	-49.25
1	35	1032	0.87	-3.78	-2.65	-0.25	-1.99	110.69	-135.39	48.78	-73.48	-106.78
1	35	1033	12.13	-7.45	2.63	2.05	9.78	-176.66	-980.56	-965.72	-191.50	108.20
1	35	1034	16.47	9.93	13.02	13.38	-3.27	1.71e-02	-1066.71	-1065.08	-1.61	-41.58
1	35	1035	3.10	-2.63	1.67	-1.20	2.48	28.69	-162.42	-41.11	-92.63	92.02
1	35	1036	-0.73	-3.05	-3.05	-0.73	3.78e-02	445.82	-67.07	440.86	-62.10	50.21

1	35	1037	-0.36	-3.30	-3.30	-0.36	5.25e-02	612.97	-67.92	608.21	-63.16	56.73
1	35	1038	-1.27	-3.59	-3.46	-1.40	-0.54	500.49	-86.59	500.49	-86.59	-0.30
1	35	1039	11.10	-2.30	0.97	7.83	-5.75	318.97	-450.17	179.50	-310.70	296.35
1	35	1040	3.74	-1.09	2.23	0.42	2.24	160.92	-242.75	107.63	-189.46	-136.64
1	35	1041	14.56	1.22	4.43	11.35	5.70	202.81	-138.88	170.75	-106.81	99.64
1	35	1042	0.95	-4.93	-4.74	0.75	-1.06	574.70	-127.37	-93.00	540.32	151.50
1	35	1043	2.69	-0.71	-0.66	2.64	-0.39	950.20	-56.78	-31.44	924.85	157.73
1	35	1044	2.83	-0.10	-9.53e-02	2.82	-0.12	1108.78	-31.73	-19.50	1096.56	117.44
1	35	1045	2.73	-6.36e-02	-5.94e-02	2.73	-0.11	1195.21	-19.08	-13.87	1190.00	79.40
1	35	1046	2.73	-6.29e-02	-6.04e-02	2.73	-8.21e-02	1248.10	-11.06	-9.89	1246.94	38.31
1	35	1047	2.87	-6.82e-02	-6.72e-02	2.87	-5.56e-02	1288.70	-7.60	-7.49	1288.58	-12.22
1	35	1048	3.09	-9.10e-02	-9.09e-02	3.09	-1.91e-02	1322.19	-8.69	-5.97	1319.47	-60.07
1	35	1049	3.27	-0.18	-0.18	3.27	8.39e-02	1339.49	-14.48	-4.48	1329.48	-115.95
1	35	1050	3.36	-0.72	-0.72	3.35	0.16	1309.46	-32.10	-8.43	1285.79	-176.61
1	35	1051	7.48	-2.15	-1.88	7.20	-1.61	1157.59	-83.52	-40.92	1115.00	-225.93
1	35	1052	27.00	9.44	16.81	19.63	-8.66	707.22	90.88	223.28	574.82	-253.13
1	35	1053	-0.92	-20.65	-15.82	-5.75	-8.48	-26.92	-279.77	-228.78	-77.91	-101.46
1	35	1054	11.83	-7.27	-6.95	11.51	2.46	-149.73	-303.47	-302.23	-150.98	-13.78
1	35	1055	3.39	-4.22	-4.13	3.29	0.86	294.60	-171.08	232.44	-108.93	-158.36
1	35	1056	1.81	-5.09	-4.74	1.46	1.50	200.50	-31.77	188.77	-20.04	50.88
1	35	1057	12.79	2.18	7.23	7.74	-5.30	154.35	76.04	137.43	92.96	-32.23
1	35	1058	0.82	-4.10	-3.76	0.48	1.25	584.98	-87.88	-86.59	583.69	-29.44
1	35	1059	2.28	-0.38	-0.31	2.22	0.40	874.20	-32.69	-30.52	872.03	-44.37
1	35	1060	2.28	-7.55e-03	-3.80e-03	2.27	9.25e-02	1012.79	-22.44	-20.91	1011.26	-39.77
1	35	1061	2.24	4.82e-02	5.24e-02	2.24	9.57e-02	1090.14	-15.03	-14.47	1089.58	-24.98
1	35	1062	2.34	2.97e-02	3.72e-02	2.33	0.13	1134.56	-12.02	-11.92	1134.46	-10.60
1	35	1063	2.57	3.41e-02	3.91e-02	2.57	0.11	1162.42	-11.10	-11.06	1162.38	-6.91
1	35	1064	2.91	3.54e-02	3.58e-02	2.91	3.37e-02	1176.13	-12.06	-12.04	1176.11	4.95
1	35	1065	3.27	-3.91e-02	-3.77e-02	3.26	-6.77e-02	1167.12	-14.88	-14.63	1166.87	17.35
1	35	1066	3.55	-0.34	-0.33	3.53	-0.21	1114.00	-22.68	-21.52	1112.84	36.28
1	35	1067	5.23	-2.56	-2.54	5.21	0.39	977.78	-63.93	-61.42	975.27	51.07
1	35	1068	25.01	8.38	17.71	15.69	8.25	626.53	153.63	181.35	598.80	111.10
1	35	1069	1.34	-5.67	-3.94	-0.39	3.02	-79.45	-188.06	-185.56	-81.95	16.28
1	35	1070	33.59	15.53	33.51	15.60	1.19	410.93	-2532.42	-2532.42	410.93	2.07
1	67	1	1.93	0.30	1.02	1.21	0.81	-543.54	-1326.22	-863.24	-1006.53	384.72
1	67	3	3.57	-6.15	0.31	-2.89	4.59	-261.96	-1219.02	-859.25	-621.72	-463.56
1	67	9	1.00	-7.61	-3.54	-3.06	-4.30	-1259.32	-2074.88	-2073.57	-1260.62	32.63
1	67	11	6.14	-5.70	0.62	-0.18	-5.90	-1313.29	-3340.46	-3335.22	-1318.53	102.90
1	67	12	4.16	-2.95	0.95	0.25	-3.54	-1757.15	-2760.36	-2759.73	-1757.79	-25.22
1	67	13	10.20	-9.00	8.34	-7.13	5.68	-1371.26	-2996.51	-2981.30	-1386.47	-156.51
1	67	15	9.14	-8.53	7.70	-7.09	4.83	-1385.98	-2894.33	-2894.10	-1386.21	18.69
1	67	17	3.55	-6.74	-2.94	-0.26	4.97	-1011.17	-2131.69	-2130.99	-1011.87	-28.01
1	67	21	0.15	-6.45	-5.48	-0.82	2.34	-1812.12	-3025.58	-3020.10	-1817.60	-81.37
1	67	22	2.28	-7.60	-7.12	1.81	2.12	-2374.81	-3923.94	-3923.59	-2375.16	-23.38
1	67	23	4.04	-2.54	0.60	0.90	-3.29	-1787.83	-2852.60	-2833.29	-1807.14	142.07
1	67	24	3.11	0.41	1.05	2.46	1.15	1058.70	240.47	241.77	1057.40	32.56
1	67	25	3.28	-1.47	0.56	1.25	-2.35	-485.85	-778.11	-639.17	-624.79	-145.96
1	67	27	0.71	-1.34	0.69	-1.32	-0.20	-291.42	-746.72	-656.66	-381.48	181.37
1	67	29	3.64	-1.06	0.82	1.76	-2.30	601.54	-136.13	483.01	-17.59	270.90
1	67	30	0.58	-4.59	-4.43	0.42	-0.91	694.30	-317.50	292.97	83.83	494.97
1	67	31	8.54	1.27	5.51	4.30	-3.59	139.79	-649.84	-370.02	-140.03	377.70
1	67	32	2.71	-2.39	0.16	0.16	2.55	856.34	-86.78	314.62	454.94	466.31
1	67	33	8.27	4.13	4.20	8.20	0.53	789.23	-197.34	67.35	524.53	437.12
1	67	34	2.85	-0.11	0.27	2.47	0.98	957.50	121.43	325.96	752.96	359.40
1	67	35	3.10	3.95e-02	7.21e-02	3.07	0.31	992.46	-65.18	114.68	812.59	397.34
1	67	36	2.41	-6.79e-02	2.84e-02	2.31	0.48	1018.38	218.53	317.87	919.04	263.79
1	67	37	2.43	-0.11	-9.82e-02	2.43	0.14	1097.98	39.51	131.85	1005.64	298.68
1	67	38	2.29	7.31e-03	1.42e-02	2.28	0.13	1064.04	270.72	307.47	1027.29	166.76
1	67	39	2.40	-6.87e-02	-6.87e-02	2.40	8.74e-03	1156.17	98.68	134.97	1119.88	192.51
1	67	40	2.46	4.10e-02	5.67e-02	2.44	-0.19	1109.97	297.28	304.07	1103.18	73.96
1	67	41	2.55	-5.77e-02	-5.32e-02	2.54	-0.11	1205.15	129.35	136.27	1198.22	86.05
1	67	42	2.88	-2.26e-02	6.64e-02	2.79	-0.50	1162.42	310.18	311.68	1160.92	-35.77
1	67	43	2.88	-7.50e-02	-5.79e-02	2.87	-0.22	1261.36	140.49	141.74	1260.10	-37.44
1	67	44	3.59	-0.10	9.78e-02	3.39	-0.84	1224.56	312.28	333.59	1203.25	-137.79
1	67	45	3.46	-0.11	-7.94e-02	3.43	-0.33	1329.75	131.90	152.34	1309.31	-155.13
1	67	46	4.65	-0.15	0.25	4.25	-1.33	1288.01	300.39	368.55	1219.84	-250.35
1	67	47	4.44	-0.10	-5.87e-02	4.39	-0.43	1402.56	101.46	168.30	1335.72	-287.22
1	67	48	6.04	0.33	1.20	5.17	-2.05	1340.29	265.78	415.67	1190.39	-372.28
1	67	49	6.01	0.31	0.45	5.88	-0.86	1455.85	47.75	187.21	1316.39	-420.62
1	67	50	7.73	3.01	4.32	6.43	-2.11	1392.98	186.69	469.63	1110.04	-511.13
1	67	51	7.37	2.76	5.81	4.32	-2.18	1444.78	-35.21	207.06	1202.51	-547.60
1	67	52	15.91	1.03	7.78	9.16	7.41	1338.72	-56.34	472.02	810.36	-676.71
1	67	53	17.66	-13.30	16.20	-11.85	6.55	1296.53	-172.29	123.11	1001.13	-588.75
1	67	54	9.52	-13.52	-5.84	1.84	10.86	1005.34	-327.50	496.70	181.13	-647.47
1	67	55	0.87	-3.71	-2.99	0.15	-1.67	862.33	-75.21	719.76	67.36	336.66
1	67	56	3.78	1.14	3.70	1.22	-0.47	907.16	68.86	732.20	243.83	340.67

1	67	57	2.91	-0.27	0.82	1.82	1.51	905.65	188.26	597.21	496.69	355.16
1	67	58	2.35	-0.24	0.41	1.70	1.12	910.19	301.88	524.09	687.99	292.91
1	67	59	2.04	6.03e-02	0.28	1.82	0.62	942.22	371.65	472.62	841.25	217.76
1	67	60	1.92	0.26	0.28	1.90	0.17	981.03	405.28	440.51	945.81	137.98
1	67	61	2.11	0.26	0.31	2.07	-0.27	1026.18	420.22	426.40	1019.99	60.92
1	67	62	2.57	0.12	0.36	2.33	-0.73	1076.58	432.58	434.00	1075.17	-30.19
1	67	63	3.22	-4.17e-02	0.50	2.68	-1.21	1131.58	444.99	464.32	1112.25	-113.57
1	67	64	4.04	-0.14	0.85	3.06	-1.77	1184.34	455.88	517.48	1122.74	-202.69
1	67	65	4.88	7.41e-02	1.64	3.32	-2.25	1233.86	448.27	591.12	1091.02	-303.01
1	67	66	5.14	1.60	2.89	3.85	-1.71	1274.32	381.33	677.27	978.38	-420.35
1	67	67	5.28	-0.23	0.61	4.45	-1.98	1294.16	184.99	772.13	707.02	-553.63
1	67	68	2.69	-3.77	-3.71	2.62	-0.63	1256.20	-103.57	870.08	282.55	-613.14
1	67	69	-8.55e-02	-0.30	-0.20	-0.18	-0.10	1037.17	66.93	959.68	144.42	263.02
1	67	70	0.38	-6.19e-02	0.13	0.19	0.22	967.81	194.62	884.19	278.24	240.12
1	67	71	1.15	-0.19	0.53	0.43	0.67	898.31	355.38	769.72	483.96	230.82
1	67	72	1.54	-4.17e-02	0.56	0.93	0.77	853.68	461.79	664.51	650.96	195.83
1	67	73	1.46	0.24	0.47	1.22	0.48	861.68	502.03	582.07	781.64	149.60
1	67	74	1.40	0.51	0.51	1.40	7.13e-02	904.95	504.89	529.51	880.33	96.15
1	67	75	1.67	0.48	0.61	1.54	-0.37	956.40	502.61	505.82	953.18	38.08
1	67	76	2.16	0.27	0.77	1.66	-0.84	1007.34	510.44	511.44	1006.34	-22.24
1	67	77	2.72	2.66e-02	0.99	1.76	-1.29	1052.62	534.51	547.35	1039.79	-80.53
1	67	78	3.23	-0.17	1.33	1.72	-1.69	1087.28	569.76	612.77	1044.27	-142.86
1	67	79	3.54	-0.19	1.82	1.53	-1.86	1115.34	591.79	706.48	1000.65	-216.54
1	67	80	3.13	-0.18	1.78	1.17	-1.62	1151.27	549.26	825.72	874.82	-300.00
1	67	81	1.56	-0.40	0.21	0.95	-0.91	1217.52	387.37	969.19	635.70	-380.11
1	67	82	0.27	-2.41	-2.38	0.23	-0.30	1339.89	106.34	1158.80	287.43	-436.56
1	67	83	-3.45e-02	-0.96	-0.95	-4.03e-02	-7.25e-02	1055.98	147.57	1041.19	162.35	114.93
1	67	84	0.14	-0.24	-0.20	8.80e-02	0.13	982.17	276.74	966.81	292.10	102.94
1	67	85	0.66	-5.54e-02	0.45	0.16	0.33	873.77	454.17	848.74	479.20	99.37
1	67	86	0.75	0.13	0.41	0.48	0.31	774.61	581.31	728.30	627.62	82.51
1	67	87	0.84	0.46	0.53	0.77	0.15	773.20	606.57	633.98	745.79	61.77
1	67	88	1.03	0.63	0.71	0.96	-0.16	844.34	564.42	570.01	838.74	39.16
1	67	89	1.50	0.45	0.89	1.06	-0.52	910.74	539.90	540.30	910.34	12.10
1	67	90	1.98	0.20	1.11	1.07	-0.89	963.02	542.57	543.00	962.59	-13.38
1	67	91	2.39	-5.88e-02	1.36	0.97	-1.21	996.95	578.00	582.05	992.89	-41.02
1	67	92	2.67	-0.32	1.61	0.74	-1.43	1006.15	639.11	654.25	991.01	-72.98
1	67	93	2.65	-0.53	1.74	0.38	-1.44	993.62	707.60	762.30	938.92	-112.49
1	67	94	1.55	-0.68	0.86	8.53e-03	-1.03	1009.90	698.84	894.91	813.84	-150.15
1	67	95	-3.93e-03	-0.78	-0.52	-0.26	-0.36	1133.10	533.22	1069.26	597.05	-184.98
1	67	96	-0.22	-2.85	-2.84	-0.23	0.15	1324.74	238.97	1280.94	282.76	-213.62
1	67	97	-9.98e-03	-1.10	-1.10	-1.26e-02	5.34e-02	1046.04	161.71	1042.42	165.33	-56.49
1	67	98	0.12	-0.50	-0.44	6.24e-02	0.18	970.21	289.04	966.45	292.79	-50.46
1	67	99	0.77	3.14e-02	0.71	0.10	0.22	858.46	468.80	854.55	472.71	-38.83
1	67	100	0.29	0.11	0.12	0.28	-3.98e-02	730.16	604.84	719.54	615.46	-34.90
1	67	101	0.81	0.19	0.50	0.50	-0.31	739.75	616.57	625.48	730.84	-31.91
1	67	102	1.26	0.22	0.81	0.67	-0.52	825.02	556.88	558.84	823.06	-22.85
1	67	103	1.68	0.15	1.07	0.76	-0.75	895.90	528.08	528.40	895.57	-10.88
1	67	104	2.05	-1.32e-03	1.34	0.71	-0.97	948.47	529.23	529.26	948.44	-3.58
1	67	105	2.33	-0.20	1.59	0.54	-1.15	977.60	569.25	569.25	977.60	1.18
1	67	106	2.43	-0.45	1.73	0.25	-1.23	972.05	642.02	642.03	972.04	1.65
1	67	107	2.14	-0.53	1.70	-8.79e-02	-0.99	915.59	755.47	755.65	915.41	5.32
1	67	108	0.17	-0.59	-2.82e-02	-0.39	-0.33	884.22	790.04	883.90	790.36	5.50
1	67	109	-0.47	-1.13	-1.11	-0.49	0.11	1071.06	582.24	1071.04	582.25	-2.73
1	67	110	-0.30	-3.16	-3.15	-0.31	0.21	1286.29	278.44	1286.29	278.45	-2.50
1	67	111	3.57e-02	-1.32	-1.28	3.77e-03	0.21	991.44	129.83	961.72	159.54	-157.23
1	67	112	0.27	-0.75	-0.55	7.09e-02	0.40	918.51	255.99	890.40	284.09	-133.53
1	67	113	0.94	-0.18	0.65	0.11	0.50	832.43	416.61	782.70	466.33	-134.93
1	67	114	0.86	6.92e-02	0.67	0.26	0.34	764.31	512.30	661.81	614.80	-123.79
1	67	115	0.60	0.28	0.41	0.46	0.16	784.34	510.44	558.21	736.57	-103.94
1	67	116	0.86	0.58	0.80	0.64	0.11	846.46	484.42	497.22	833.66	-66.86
1	67	117	1.13	0.72	1.12	0.73	5.67e-02	911.85	470.65	472.47	910.03	-28.29
1	67	118	1.43	0.67	1.43	0.67	9.39e-04	966.09	472.67	472.90	965.86	10.55
1	67	119	1.69	0.49	1.69	0.49	-5.05e-02	1002.16	505.61	510.72	997.06	50.08
1	67	120	1.79	0.22	1.78	0.22	-8.41e-02	1010.41	557.70	576.78	991.33	90.96
1	67	121	0.89	-7.78e-02	0.88	-6.56e-02	0.11	985.05	612.93	666.90	931.07	131.04
1	67	122	0.16	-0.84	-0.38	-0.29	0.50	995.56	602.99	799.02	799.54	196.29
1	67	123	-0.14	-1.74	-1.50	-0.38	0.57	1093.08	470.72	979.00	584.80	240.80
1	67	124	-0.21	-3.25	-3.21	-0.25	0.33	1267.67	201.58	1191.33	277.93	274.88
1	67	125	8.06e-02	-1.38	-1.30	-1.21e-03	0.34	905.57	26.60	789.71	142.46	-297.35
1	67	126	0.49	-0.89	-0.50	0.11	0.62	845.72	149.43	732.19	262.97	-257.22
1	67	127	1.20	-0.31	0.69	0.19	0.71	806.39	284.91	633.10	458.20	-245.63
1	67	128	1.90	-2.39e-03	1.53	0.37	0.75	800.27	364.64	538.92	625.99	-213.42
1	67	129	1.29	-0.35	0.30	0.64	0.80	831.90	363.79	433.03	762.65	-166.19
1	67	130	1.70	-0.12	0.69	0.89	0.91	892.17	367.49	390.48	869.19	-107.38
1	67	131	2.04	-2.07e-02	1.02	1.00	1.03	954.47	374.51	378.34	950.65	-46.96
1	67	132	2.34	1.37e-02	1.36	1.00	1.15	1012.83	380.26	380.76	1012.33	17.80

1	67	133	2.55	-5.29e-02	1.66	0.84	1.23	1061.61	399.42	411.51	1049.53	88.65
1	67	134	2.58	-0.19	1.80	0.59	1.24	1095.25	415.03	461.42	1048.85	171.48
1	67	135	1.37	-1.02	1.86e-02	0.33	1.19	1104.08	393.79	511.26	986.62	263.89
1	67	136	0.96	-1.48	-0.68	0.15	1.15	1106.80	360.00	626.11	840.69	357.65
1	67	137	0.53	-2.34	-1.84	2.41e-02	1.09	1139.34	245.34	782.13	602.55	437.89
1	67	138	8.31e-02	-3.50	-3.36	-5.95e-02	0.70	1239.65	16.34	976.82	279.17	502.44
1	67	139	0.11	-1.01	-0.87	-2.80e-02	0.37	760.29	-154.62	504.32	101.35	-410.69
1	67	140	0.73	-0.78	-0.32	0.26	0.70	720.84	-44.50	458.55	217.80	-363.25
1	67	141	1.29	-0.17	0.91	0.21	0.64	763.86	55.13	375.69	443.29	-352.75
1	67	142	1.97	0.32	1.79	0.51	0.52	825.80	141.95	319.52	648.23	-299.83
1	67	143	1.25	-0.14	0.14	0.97	0.56	886.09	175.29	254.22	807.17	-223.31
1	67	144	1.81	1.37e-02	0.46	1.36	0.78	953.07	220.31	248.67	924.71	-141.35
1	67	145	2.32	4.97e-02	0.77	1.60	1.05	1017.21	250.14	255.20	1012.14	-62.12
1	67	146	2.79	2.86e-02	1.11	1.71	1.35	1079.95	265.31	265.66	1079.59	17.11
1	67	147	3.18	-5.18e-02	1.47	1.66	1.61	1140.71	270.40	282.86	1128.25	103.38
1	67	148	3.39	-8.99e-02	1.79	1.50	1.73	1191.84	254.20	302.57	1143.47	207.39
1	67	149	2.41	-1.17	-5.85e-02	1.30	1.65	1215.24	176.32	301.53	1090.03	338.24
1	67	150	2.08	-1.71	-0.87	1.24	1.57	1207.61	82.68	364.48	925.81	487.44
1	67	151	1.78	-2.85	-2.07	1.00	1.74	1176.94	-73.60	466.51	636.84	619.45
1	67	152	0.95	-3.96	-3.46	0.45	1.48	1179.63	-297.24	606.39	276.00	719.72
1	67	153	-0.55	-0.64	-0.62	-0.57	-4.24e-02	472.12	-480.32	-4.38	-3.82	-476.22
1	67	154	1.15	-0.81	-0.42	0.76	0.78	496.48	-391.00	-6.35	111.84	-439.79
1	67	155	1.31	0.21	1.13	0.39	0.41	689.69	-291.49	-25.67	423.87	-436.07
1	67	156	0.94	0.78	0.78	0.94	4.99e-03	833.21	-143.40	-0.18	690.00	-345.48
1	67	157	1.82	0.75	0.79	1.79	0.20	939.13	-8.47	56.74	873.92	-239.88
1	67	158	2.35	0.40	0.60	2.16	0.58	1018.86	79.35	102.16	996.05	-144.60
1	67	159	2.88	0.13	0.55	2.47	0.99	1086.44	127.64	131.83	1082.25	-63.25
1	67	160	3.44	-9.99e-02	0.61	2.73	1.42	1153.21	146.54	146.71	1153.04	12.83
1	67	161	3.98	-0.38	0.69	2.90	1.88	1222.35	132.89	141.26	1213.98	95.12
1	67	162	4.32	-0.56	0.93	2.83	2.25	1287.72	80.36	113.50	1254.58	197.27
1	67	163	4.18	-0.28	1.20	2.70	2.10	1329.62	-28.27	63.55	1237.80	340.95
1	67	164	3.51	-1.71	-0.96	2.76	1.83	1300.16	-231.73	-1.86	1070.29	547.08
1	67	165	4.01	-3.58	-2.60	3.04	2.54	1186.68	-485.28	3.35e-03	701.40	758.87
1	67	166	2.78	-4.79	-3.19	1.17	3.10	1006.92	-756.86	7.07	242.99	873.97
1	67	167	-4.52	-8.37	-7.98	-4.90	1.15	-197.14	-980.86	-857.94	-320.05	-285.00
1	67	168	8.08	3.75	6.45	5.38	2.10	171.77	-787.87	-571.74	-44.36	-400.86
1	67	169	0.67	-1.64	-1.61	0.64	-0.27	607.63	-772.68	-620.44	455.39	-432.40
1	67	170	3.22	0.39	0.68	2.93	-0.86	831.48	-401.51	-329.20	759.16	-289.71
1	67	171	2.94	0.68	0.68	2.93	-0.11	982.73	-170.03	-139.98	952.68	-183.67
1	67	172	3.13	0.24	0.30	3.08	0.41	1074.13	-41.03	-30.87	1063.97	-105.99
1	67	173	3.60	-7.59e-02	0.13	3.40	0.84	1144.63	27.96	29.89	1142.70	-46.38
1	67	174	4.26	-0.27	0.11	3.87	1.26	1214.32	52.92	52.97	1214.27	7.56
1	67	175	5.11	-0.61	-5.36e-04	4.50	1.77	1288.42	28.46	31.65	1285.24	63.24
1	67	176	6.09	-0.96	3.41e-02	5.10	2.46	1363.07	-50.81	-38.10	1350.36	133.45
1	67	177	6.76	-0.46	1.28	5.01	3.09	1428.13	-195.83	-160.75	1393.05	236.09
1	67	178	5.30	2.12	2.24	5.18	0.60	1423.49	-500.26	-398.25	1321.49	431.08
1	67	179	5.40	2.02	2.38	5.04	1.04	1001.47	175.93	198.76	978.64	135.40
1	67	180	21.67	-1.02	17.55	3.10	-8.75	-1135.73	-2182.42	-1989.37	-1328.77	405.95
1	67	181	-12.12	-20.28	-13.49	-18.91	-3.05	-291.09	-2002.07	-1830.14	-463.02	-514.40
1	67	182	9.78	-9.01	-0.49	1.26	-9.35	415.69	-1079.58	-1034.17	370.28	-256.60
1	67	183	4.89	0.37	0.44	4.82	-0.55	845.22	-509.97	-502.55	837.79	-100.03
1	67	184	3.79	0.36	0.36	3.79	0.11	1005.89	-247.50	-244.90	1003.28	-57.09
1	67	185	3.80	2.81e-02	0.10	3.73	0.52	1101.46	-100.10	-99.25	1100.62	-31.85
1	67	186	4.15	-0.24	-0.12	4.03	0.73	1174.11	-21.67	-21.49	1173.93	-14.66
1	67	187	4.86	-0.40	-0.25	4.70	0.89	1244.87	6.03	6.03	1244.86	0.83
1	67	188	6.00	-0.88	-0.68	5.80	1.15	1320.50	-23.53	-23.34	1320.31	15.75
1	67	189	7.88	-1.29	-0.98	7.58	1.65	1398.13	-110.89	-110.11	1397.35	34.27
1	67	190	10.55	-2.71	-1.92	9.76	3.15	1457.88	-296.78	-294.47	1455.57	63.57
1	67	191	12.85	-1.74	2.53	8.58	6.64	1539.39	-570.01	-556.10	1525.48	170.74
1	67	192	20.09	-1.25	17.40	1.43	-7.07	1584.49	-1225.92	-1166.69	1525.26	403.68
1	67	193	29.16	-16.09	18.40	-5.33	-19.26	-558.09	-2779.15	-2584.08	-753.16	628.66
1	67	194	31.43	25.42	28.32	28.53	-3.00	-569.87	-2047.79	-2035.33	-582.33	135.13
1	67	195	25.00	2.73	2.80	24.93	-1.22	615.03	-947.24	-947.06	614.85	17.15
1	67	196	3.92	0.56	0.68	3.81	0.62	828.28	-526.70	-526.56	828.14	13.60
1	67	197	3.95	0.38	0.39	3.94	0.21	1009.07	-249.52	-249.52	1009.07	-0.39
1	67	198	3.78	-1.35e-03	9.66e-03	3.77	0.20	1101.47	-104.01	-104.01	1101.47	-0.86
1	67	199	4.13	-0.21	-0.19	4.12	0.26	1175.50	-24.56	-24.55	1175.49	-4.32
1	67	200	4.84	-0.34	-0.33	4.83	0.26	1246.36	4.54	4.55	1246.36	-0.80
1	67	201	6.03	-0.75	-0.73	6.02	0.30	1322.64	-20.71	-20.70	1322.63	-3.90
1	67	202	7.77	-0.88	-0.86	7.75	0.35	1396.34	-99.78	-99.60	1396.16	-16.39
1	67	203	11.86	1.01	1.05	11.82	0.67	1479.47	-226.77	-226.59	1479.29	-17.69
1	67	204	22.64	-0.48	-0.27	22.44	2.17	1627.11	-527.26	-527.14	1626.99	-15.77
1	67	205	65.90	-16.94	65.84	-16.88	2.14	1969.88	-453.56	-448.94	1965.26	-105.72
1	67	206	7.12	-6.45	1.30	-0.63	-6.72	-1653.03	-4450.77	-4449.12	-1654.68	67.91
1	67	207	17.53	-8.23	9.99	-0.68	11.72	-757.37	-1361.13	-1228.93	-889.58	-249.68
1	67	208	-7.74	-14.20	-7.76	-14.19	-0.34	-138.00	-1675.38	-1433.53	-379.85	559.75

1	67	209	8.18	-9.97	-1.60	-0.20	9.04	446.20	-1017.97	-930.69	358.92	346.66
1	67	210	5.11	0.31	0.59	4.83	1.13	841.40	-475.90	-456.43	821.93	158.98
1	67	211	3.90	0.31	0.36	3.86	0.40	1000.65	-229.70	-223.03	993.99	90.31
1	67	212	3.82	7.17e-02	7.20e-02	3.82	3.48e-02	1095.91	-90.39	-88.35	1093.86	49.24
1	67	213	4.13	-0.17	-0.16	4.12	-0.17	1168.59	-15.31	-15.03	1168.30	18.27
1	67	214	4.88	-0.35	-0.32	4.84	-0.42	1239.31	11.98	12.03	1239.26	-7.67
1	67	215	6.11	-0.81	-0.74	6.04	-0.68	1314.69	-14.26	-13.26	1313.68	-36.53
1	67	216	8.15	-1.29	-1.16	8.02	-1.08	1390.57	-96.06	-92.56	1387.07	-72.06
1	67	217	11.41	-2.11	-1.74	11.04	-2.22	1452.42	-257.75	-249.29	1443.96	-120.03
1	67	218	15.03	-1.21	1.99	11.82	-6.46	1562.24	-492.78	-458.08	1527.54	-264.75
1	67	219	30.24	5.57	25.18	10.63	9.96	1535.72	-1061.79	-929.27	1403.19	-571.55
1	67	220	16.99	-13.33	10.57	-6.91	12.39	-105.12	-1931.86	-1665.91	-371.08	-644.29
1	67	221	-4.76	-12.32	-11.39	-5.69	-2.49	-58.60	-792.42	-591.23	-259.78	327.35
1	67	222	10.57	2.02	8.56	4.03	-3.63	251.49	-579.50	-351.70	23.70	370.68
1	67	223	3.03	-0.67	0.76	1.60	1.80	639.56	-618.79	-440.33	461.10	439.00
1	67	224	3.84	-0.33	0.59	2.92	1.73	820.47	-332.74	-245.85	733.58	304.39
1	67	225	3.32	0.35	0.62	3.05	0.85	967.28	-133.26	-95.75	929.77	199.69
1	67	226	3.26	0.56	0.59	3.24	0.27	1058.92	-13.24	-0.48	1046.15	116.30
1	67	227	3.64	6.50e-03	2.74e-02	3.62	-0.27	1129.50	40.46	42.68	1127.28	49.18
1	67	228	4.37	-0.17	-6.46e-03	4.21	-0.84	1198.79	64.45	64.54	1198.70	-10.36
1	67	229	5.39	-0.77	-0.41	5.03	-1.44	1271.20	41.54	45.99	1266.76	-73.82
1	67	230	6.71	-1.29	-0.60	6.02	-2.24	1342.84	-25.43	-8.95	1326.36	-149.27
1	67	231	8.10	-0.30	1.32	6.48	-3.32	1410.11	-123.09	-78.91	1365.93	-256.48
1	67	232	7.68	2.27	3.09	6.86	-1.93	1425.30	-372.19	-250.10	1303.21	-452.28
1	67	233	10.03	-5.17	-3.74	8.61	-4.43	1197.51	-795.95	-433.92	835.48	-768.52
1	67	234	0.15	-4.86	-2.04	-2.68	-2.48	754.13	-1206.41	-621.32	169.04	-897.08
1	67	235	0.24	-0.67	0.17	-0.61	0.23	540.43	-343.47	167.05	29.91	436.60
1	67	236	1.40	4.15e-03	0.99	0.41	-0.63	559.69	-235.58	171.92	152.19	397.51
1	67	237	3.01	0.38	3.00	0.39	0.16	713.70	-127.65	151.12	434.92	396.02
1	67	238	1.41	-0.81	-0.51	1.11	0.76	810.47	-100.90	32.11	677.46	321.76
1	67	239	2.12	0.50	0.70	1.92	0.53	917.84	26.06	90.77	853.13	231.34
1	67	240	2.35	0.46	0.46	2.34	0.11	998.85	94.44	117.21	976.08	141.68
1	67	241	2.81	0.47	0.56	2.72	-0.46	1067.94	136.29	140.45	1063.78	62.15
1	67	242	3.49	2.69e-02	0.42	3.10	-1.10	1134.36	150.37	150.50	1134.22	-11.63
1	67	243	4.20	-0.40	0.36	3.44	-1.71	1200.53	143.86	151.66	1192.73	-90.46
1	67	244	4.91	-0.40	0.98	3.53	-2.32	1262.20	119.03	150.35	1230.88	-186.63
1	67	245	5.37	0.19	2.21	3.35	-2.53	1306.14	57.95	147.87	1216.22	-322.73
1	67	246	4.11	-1.57	-0.49	3.02	-2.23	1288.44	-117.06	105.81	1065.57	-513.39
1	67	247	3.63	-2.70	-1.93	2.85	-2.07	1189.19	-351.60	116.35	721.25	-708.54
1	67	248	1.93	-4.33	-3.34	0.94	-2.29	1058.74	-596.78	191.28	270.68	-826.81
1	67	249	0.30	-0.17	0.12	3.43e-03	-0.23	781.14	-67.64	596.97	116.52	349.85
1	67	250	1.11	3.83e-02	0.95	0.20	-0.39	726.13	45.12	535.72	235.54	305.64
1	67	251	2.43	0.14	2.42	0.15	-0.14	742.30	143.09	433.00	452.39	299.44
1	67	252	2.68	0.55	2.67	0.56	0.11	791.75	200.98	349.29	643.44	256.17
1	67	253	1.08	-0.23	-0.22	1.07	9.22e-02	859.49	182.37	247.34	794.51	199.43
1	67	254	1.53	0.88	0.92	1.49	-0.15	933.59	224.73	248.60	909.72	127.88
1	67	255	2.07	0.44	0.73	1.79	-0.62	1001.43	236.67	241.05	997.05	57.70
1	67	256	2.70	0.13	0.86	1.97	-1.16	1064.09	245.52	245.68	1063.92	-11.74
1	67	257	3.20	-0.14	1.04	2.01	-1.60	1120.49	258.38	267.28	1111.59	-87.16
1	67	258	3.65	-0.14	1.65	1.86	-1.89	1162.84	269.78	305.83	1126.79	-175.77
1	67	259	2.72	-1.49	-0.29	1.52	-1.90	1179.26	217.66	318.70	1078.21	-294.88
1	67	260	2.04	-1.89	-1.05	1.20	-1.61	1166.26	155.47	396.81	924.92	-430.93
1	67	261	1.29	-2.70	-2.19	0.79	-1.33	1135.81	24.85	511.82	648.84	-551.24
1	67	262	0.48	-3.94	-3.74	0.28	-0.91	1150.78	-191.08	671.33	288.36	-643.02
1	67	263	6.30e-02	-0.45	-0.38	-1.28e-02	-0.18	882.45	78.92	812.17	149.20	227.01
1	67	264	0.70	-4.91e-02	0.59	6.06e-02	-0.27	813.69	202.66	744.96	271.39	193.06
1	67	265	1.90	9.67e-02	1.86	0.13	-0.25	755.28	341.42	633.80	462.91	188.47
1	67	266	2.38	0.32	2.36	0.34	-0.21	742.44	401.54	519.06	624.92	162.02
1	67	267	0.72	-0.27	-0.21	0.66	-0.23	798.01	336.79	376.97	757.82	130.07
1	67	268	1.11	0.19	0.35	0.95	-0.35	877.30	318.72	333.15	862.87	88.61
1	67	269	1.69	0.28	0.85	1.11	-0.69	947.08	323.08	325.67	944.49	40.10
1	67	270	2.18	8.88e-03	1.09	1.10	-1.09	1004.89	323.41	323.55	1004.74	-9.89
1	67	271	2.79	-1.08e-02	1.85	0.93	-1.32	1046.63	363.21	369.45	1040.39	-65.00
1	67	272	3.09	-0.17	2.24	0.68	-1.43	1066.62	405.29	431.80	1040.10	-129.74
1	67	273	1.33	-1.50	-0.55	0.39	-1.33	1058.21	388.49	465.52	981.18	-213.67
1	67	274	0.69	-1.90	-1.34	0.13	-1.07	1030.91	391.85	581.65	841.11	-292.01
1	67	275	0.13	-2.71	-2.54	-4.35e-02	-0.67	1037.58	308.62	737.59	608.61	-358.73
1	67	276	-8.50e-02	-4.07	-4.05	-0.10	-0.25	1140.45	85.16	940.54	285.07	-413.52
1	67	277	3.61e-03	-0.68	-0.66	-1.25e-02	-0.10	916.79	152.18	907.90	161.07	81.97
1	67	278	0.32	-3.57e-02	0.25	3.40e-02	-0.14	843.87	277.93	835.71	286.09	67.45
1	67	279	1.49	2.80e-02	1.47	4.99e-02	-0.18	738.14	450.14	720.55	467.74	68.98
1	67	280	2.16	0.14	2.15	0.16	-0.18	674.61	544.07	603.17	615.50	64.98
1	67	281	0.68	4.24e-02	0.39	0.34	-0.32	746.51	451.64	460.98	737.17	51.64
1	67	282	0.98	-4.17e-02	0.42	0.51	-0.51	837.71	387.55	390.03	835.23	33.33
1	67	283	1.56	6.11e-02	0.99	0.64	-0.73	913.11	373.98	374.49	912.60	16.52
1	67	284	1.99	-9.15e-02	1.31	0.59	-0.98	968.37	371.76	371.81	968.32	-5.45

1	67	285	2.48	-0.11	1.94	0.43	-1.05	1000.49	419.19	421.29	998.40	-34.84
1	67	286	1.41	-0.56	0.62	0.22	-0.96	999.08	454.73	462.18	991.63	-63.23
1	67	287	0.42	-1.17	-0.72	-2.89e-02	-0.72	950.53	520.55	540.92	930.16	-91.35
1	67	288	-8.48e-02	-1.77	-1.63	-0.23	-0.47	877.31	595.29	673.89	798.70	-126.45
1	67	289	-0.30	-2.90	-2.89	-0.32	-0.21	919.73	510.63	845.38	584.99	-157.77
1	67	290	-0.21	-4.42	-4.42	-0.21	-3.84e-03	1096.47	237.66	1055.57	278.57	-182.91
1	67	291	-1.95e-02	-0.57	-0.57	-1.95e-02	4.16e-03	912.65	160.81	911.44	162.03	-30.21
1	67	292	0.27	1.95e-02	0.26	2.79e-02	4.48e-02	839.47	286.91	838.21	288.17	-26.40
1	67	293	1.38	3.36e-02	1.38	3.61e-02	5.88e-02	727.59	464.66	722.50	469.76	-36.25
1	67	294	2.04	0.11	2.03	0.12	0.12	645.87	577.97	607.21	616.63	-33.62
1	67	295	0.97	0.26	0.96	0.26	5.12e-02	739.82	477.47	480.43	736.86	-27.69
1	67	296	0.44	0.38	0.41	0.40	-3.10e-02	833.29	396.72	397.47	832.54	-18.09
1	67	297	1.01	0.48	0.99	0.50	-0.10	907.63	380.71	380.96	907.39	-11.47
1	67	298	1.34	0.41	1.30	0.45	-0.19	960.69	378.55	378.58	960.65	4.61
1	67	299	1.63	0.28	1.61	0.30	-0.16	988.68	420.19	420.29	988.58	7.50
1	67	300	0.14	1.40e-02	3.87e-02	0.11	-4.96e-02	980.65	454.62	455.31	979.96	19.04
1	67	301	-6.45e-02	-0.79	-0.77	-8.72e-02	0.13	920.35	543.72	546.36	917.70	31.46
1	67	302	-0.21	-1.84	-1.81	-0.24	0.22	807.85	657.94	679.15	786.64	52.25
1	67	303	-0.28	-3.12	-3.10	-0.30	0.24	860.06	561.37	845.91	575.52	63.46
1	67	304	-0.19	-4.63	-4.63	-0.19	0.15	1059.56	264.65	1050.59	273.62	83.95
1	67	305	7.03e-03	-0.36	-0.33	-2.23e-02	9.96e-02	874.88	99.31	821.55	152.65	-196.26
1	67	306	0.50	-4.31e-02	0.41	5.10e-02	0.21	808.12	221.64	751.57	278.20	-173.12
1	67	307	1.43	8.10e-02	1.40	0.11	0.19	738.01	373.70	641.52	470.19	-160.75
1	67	308	2.03	0.19	2.01	0.21	0.20	722.42	443.63	536.69	629.36	-131.47
1	67	309	2.20	0.35	2.15	0.40	0.29	784.26	422.34	450.24	756.36	-96.53
1	67	310	0.94	-3.78e-02	0.31	0.58	0.47	861.19	349.42	356.57	854.04	-60.07
1	67	311	1.32	0.22	0.86	0.68	0.54	928.99	346.11	347.07	928.04	-23.60
1	67	312	1.51	0.24	1.10	0.66	0.60	981.98	345.19	345.41	981.75	12.09
1	67	313	1.64	6.03e-02	1.18	0.52	0.72	1015.52	371.82	375.80	1011.55	50.44
1	67	314	0.97	-0.64	-4.44e-02	0.37	0.77	1020.64	389.79	404.54	1005.89	95.35
1	67	315	0.62	-1.22	-0.82	0.22	0.76	989.70	432.07	478.36	943.41	153.85
1	67	316	0.33	-2.09	-1.84	8.69e-02	0.73	929.87	466.25	591.91	804.21	206.07
1	67	317	0.13	-3.28	-3.13	-2.06e-02	0.70	925.26	397.10	743.13	579.23	251.04
1	67	318	-2.48e-02	-4.63	-4.59	-6.81e-02	0.44	1038.72	162.13	931.32	269.53	287.42
1	67	319	0.14	-7.57e-02	8.59e-02	-1.92e-02	9.56e-02	779.31	-36.29	618.49	124.53	-324.50
1	67	320	0.66	0.13	0.55	0.24	0.21	733.06	75.14	557.67	250.54	-290.92
1	67	321	1.49	0.21	1.49	0.22	0.10	740.36	192.41	464.48	468.29	-273.97
1	67	322	2.08	0.42	2.08	0.42	2.31e-03	781.99	263.21	389.88	655.31	-222.87
1	67	323	2.08	0.74	2.07	0.74	8.07e-02	844.88	290.82	340.27	795.43	-157.96
1	67	324	1.30	0.59	0.90	1.00	0.35	911.55	276.81	291.95	896.41	-96.86
1	67	325	1.59	0.49	0.94	1.13	0.54	972.40	284.08	286.40	970.07	-39.92
1	67	326	1.76	0.32	0.90	1.19	0.70	1025.58	286.16	286.43	1025.31	14.11
1	67	327	2.03	0.11	0.97	1.17	0.95	1069.20	297.79	304.56	1062.43	71.95
1	67	328	1.70	-0.82	-0.18	1.06	1.10	1093.14	282.12	307.91	1067.35	142.32
1	67	329	1.45	-1.37	-0.86	0.94	1.09	1086.10	268.48	343.55	1011.03	236.10
1	67	330	1.27	-2.24	-1.88	0.91	1.07	1040.10	231.35	412.88	858.57	337.43
1	67	331	1.08	-3.50	-3.16	0.73	1.21	989.00	129.98	522.26	596.72	427.89
1	67	332	0.51	-4.79	-4.57	0.30	1.05	1001.82	-73.33	666.98	261.51	497.89
1	67	333	0.41	-0.47	0.29	-0.35	-0.30	559.47	-284.35	228.19	46.92	-412.06
1	67	334	0.93	0.36	0.44	0.85	0.19	572.49	-191.49	200.51	180.48	-381.86
1	67	335	1.57	0.50	1.57	0.50	-6.46e-02	708.06	-77.16	162.43	468.47	-361.56
1	67	336	1.11	0.33	0.54	0.90	-0.35	812.56	26.97	138.53	701.00	-274.22
1	67	337	1.50	0.57	0.59	1.47	-0.16	901.55	118.67	165.12	855.11	-184.95
1	67	338	1.74	0.50	0.55	1.69	0.23	970.19	174.43	189.55	955.07	-108.64
1	67	339	2.06	0.52	0.72	1.86	0.52	1026.96	207.18	209.46	1024.68	-43.16
1	67	340	2.35	0.19	0.53	2.01	0.79	1080.60	214.88	215.09	1080.39	13.71
1	67	341	2.70	-0.23	0.33	2.14	1.16	1131.78	207.81	213.96	1125.62	75.17
1	67	342	3.03	-0.21	0.70	2.12	1.46	1173.27	186.96	210.85	1149.37	151.65
1	67	343	2.98	-0.21	0.70	2.07	1.44	1188.45	120.18	188.73	1119.90	261.78
1	67	344	2.58	-2.37	-1.97	2.18	1.34	1136.74	-34.50	138.70	963.53	415.77
1	67	345	2.98	-4.02	-3.45	2.41	1.92	1020.18	-217.68	163.97	638.53	571.64
1	67	346	1.80	-5.05	-4.16	0.90	2.31	884.49	-432.06	222.88	229.56	658.27
1	67	347	-3.05	-5.78	-5.72	-3.11	0.40	-8.26	-668.29	-486.33	-190.22	-294.94
1	67	348	5.26	3.84	4.57	4.53	0.71	314.39	-525.69	-281.67	70.37	-381.38
1	67	349	1.21	-1.33	-1.23	1.11	-0.50	657.56	-458.15	-317.70	517.11	-370.10
1	67	350	2.95	6.95e-02	0.39	2.63	-0.90	833.11	-172.57	-110.86	771.40	-241.35
1	67	351	2.57	1.33	1.38	2.52	-0.25	950.58	17.51	42.15	925.95	-149.60
1	67	352	2.53	0.45	0.48	2.50	0.22	1021.90	95.44	102.89	1014.44	-82.79
1	67	353	2.74	0.19	0.29	2.64	0.51	1077.59	140.38	141.45	1076.52	-31.68
1	67	354	3.14	-2.37e-02	0.18	2.93	0.78	1131.74	156.32	156.42	1131.63	10.19
1	67	355	3.72	-0.43	-8.51e-02	3.38	1.15	1186.96	139.53	142.64	1183.85	56.96
1	67	356	4.36	-1.29	-0.78	3.85	1.62	1237.91	75.27	86.77	1226.41	115.05
1	67	357	4.97	-0.38	0.66	3.93	2.11	1273.72	-13.34	18.64	1241.73	200.37
1	67	358	4.19	0.88	0.93	4.14	0.39	1244.43	-242.63	-152.39	1154.19	355.05
1	67	359	8.04	-8.80	-7.68	6.92	4.20	997.16	-675.84	-385.15	706.46	633.90
1	67	360	3.61	-3.05	1.23	-0.67	3.19	558.77	-995.12	-551.83	115.49	701.65

1	67	361	16.10	1.40	15.07	2.44	-3.76	-906.85	-1564.81	-1466.30	-1005.36	234.75
1	67	362	-9.81	-13.81	-10.32	-13.30	-1.34	8.44	-1447.62	-1269.70	-169.48	-476.88
1	67	363	7.99	-6.42	-0.51	2.07	-7.09	535.80	-686.40	-639.16	488.57	-235.59
1	67	364	4.40	0.69	0.75	4.33	-0.47	852.85	-236.29	-226.47	843.03	-102.94
1	67	365	3.37	0.76	0.77	3.36	0.18	978.74	-43.67	-40.07	975.13	-60.59
1	67	366	3.20	0.41	0.50	3.11	0.51	1053.69	58.84	59.96	1052.57	-33.33
1	67	367	3.31	6.12e-02	0.18	3.19	0.62	1110.16	108.93	109.04	1110.05	-10.60
1	67	368	3.73	-0.20	-8.27e-02	3.61	0.68	1164.29	126.29	126.33	1164.25	6.19
1	67	369	4.51	-0.84	-0.71	4.39	0.82	1220.19	101.71	102.44	1219.46	28.66
1	67	370	5.88	-1.45	-1.29	5.72	1.10	1272.83	37.04	39.20	1270.67	51.62
1	67	371	7.83	-2.76	-2.33	7.41	2.08	1303.37	-98.60	-93.91	1298.68	80.97
1	67	372	9.59	-1.37	1.20	7.02	4.65	1331.83	-298.32	-281.42	1314.92	165.14
1	67	373	12.78	-2.22	10.79	-0.23	-5.10	1304.51	-825.77	-762.42	1241.17	361.85
1	67	374	23.38	-12.09	14.31	-3.02	-15.48	-438.45	-2029.86	-1872.97	-595.34	474.41
1	67	375	25.56	17.82	25.08	18.30	-1.87	-194.26	-1403.81	-1397.56	-200.51	86.73
1	67	376	19.59	2.19	2.22	19.57	-0.62	677.37	-559.37	-558.91	676.92	-23.66
1	67	377	3.98	0.15	0.34	3.80	0.83	842.24	-252.59	-252.42	842.07	-13.68
1	67	378	3.69	0.63	0.84	3.48	0.77	983.83	-40.25	-40.15	983.73	-10.14
1	67	379	3.36	0.26	0.45	3.16	0.76	1058.38	58.36	58.39	1058.34	-5.97
1	67	380	3.43	-1.11e-02	0.14	3.28	0.70	1116.41	108.05	108.05	1116.40	-1.30
1	67	381	3.82	-0.23	-0.13	3.72	0.63	1170.55	126.23	126.25	1170.53	4.40
1	67	382	4.62	-0.83	-0.76	4.56	0.59	1226.27	104.87	105.07	1226.06	15.04
1	67	383	5.89	-1.25	-1.21	5.85	0.51	1275.20	47.26	47.96	1274.50	29.36
1	67	384	8.89	0.46	0.47	8.87	0.32	1320.08	-32.08	-31.52	1319.53	27.41
1	67	385	17.27	-1.20	-1.17	17.24	0.74	1400.54	-270.56	-270.20	1400.18	24.45
1	67	386	48.21	-9.24	48.19	-9.21	1.24	1568.11	-225.72	-224.18	1566.57	-52.54
1	67	387	11.29	-5.75	5.76	-0.22	7.98	-495.52	-931.50	-782.75	-644.28	-206.71
1	67	388	-4.67	-9.10	-5.42	-8.35	-1.65	59.22	-1116.94	-938.02	-119.70	422.41
1	67	389	6.64	-7.32	-1.63	0.96	6.86	530.69	-604.96	-559.48	485.21	222.65
1	67	390	4.74	-0.29	1.86e-03	4.45	1.18	846.79	-210.44	-203.32	839.67	86.49
1	67	391	3.64	0.64	0.83	3.46	0.72	981.26	-21.18	-18.99	979.06	46.88
1	67	392	3.27	0.49	0.54	3.23	0.34	1060.94	69.46	70.15	1060.24	26.23
1	67	393	3.32	2.34e-02	2.34e-02	3.32	-2.37e-03	1119.70	111.21	111.56	1119.36	18.55
1	67	394	3.78	-0.12	-9.50e-02	3.76	-0.28	1173.77	131.76	131.82	1173.71	8.41
1	67	395	4.66	-0.79	-0.74	4.60	-0.53	1227.39	110.75	110.75	1227.39	0.77
1	67	396	6.17	-1.47	-1.36	6.05	-0.92	1274.61	55.58	55.80	1274.40	-16.22
1	67	397	8.72	-2.55	-2.15	8.32	-2.07	1301.32	-57.87	-55.66	1299.11	-54.79
1	67	398	11.57	-2.24	0.70	8.64	-5.65	1336.01	-215.36	-198.04	1318.70	-162.98
1	67	399	21.51	3.86	18.05	7.32	7.01	1256.17	-645.37	-554.88	1165.68	-404.82
1	67	400	10.15	-9.53	4.91	-4.29	8.70	-100.25	-1243.64	-1076.52	-267.38	-403.93
1	67	401	-3.27	-9.10	-9.01	-3.36	-0.70	46.25	-399.79	-225.29	-128.24	217.68
1	67	402	7.25	2.61	6.00	3.86	-2.06	305.61	-237.17	-71.24	139.69	250.06
1	67	403	2.73	-1.42	-0.71	2.02	1.56	636.40	-284.03	-187.61	539.97	281.87
1	67	404	3.43	-0.15	0.51	2.77	1.39	815.91	-71.93	-34.79	778.76	177.76
1	67	405	2.88	8.16e-02	0.19	2.77	0.54	953.68	43.35	55.15	941.88	102.96
1	67	406	2.79	0.57	0.57	2.79	-9.00e-02	1042.19	118.84	121.93	1039.10	53.30
1	67	407	3.17	0.16	0.35	2.98	-0.72	1106.01	150.38	150.83	1105.56	20.57
1	67	408	3.81	-0.25	0.21	3.35	-1.29	1161.10	164.62	164.69	1161.03	-8.17
1	67	409	4.59	-0.76	-8.78e-02	3.91	-1.78	1210.54	156.88	158.16	1209.26	-36.62
1	67	410	5.68	-0.75	0.33	4.60	-2.41	1248.79	136.69	142.23	1243.25	-78.32
1	67	411	6.68	-0.96	0.79	4.92	-3.22	1267.66	73.58	91.71	1249.53	-146.01
1	67	412	6.40	1.53	2.79	5.13	-2.13	1227.93	-59.27	5.67	1162.99	-281.73
1	67	413	8.13	-4.64	-3.41	6.90	-3.77	990.85	-357.77	-121.88	754.96	-512.33
1	67	414	-6.09e-03	-4.88	-3.17	-1.72	-2.33	599.56	-657.61	-234.12	176.07	-594.18
1	67	415	0.92	-0.69	0.52	-0.28	0.70	528.33	-52.57	388.36	87.41	248.43
1	67	416	1.23	0.70	1.23	0.71	6.51e-02	516.81	53.17	335.14	234.84	226.33
1	67	417	2.93	0.61	2.84	0.70	0.45	647.85	150.67	285.53	513.00	221.05
1	67	418	1.44	-1.09	-0.89	1.23	0.69	783.72	110.06	154.48	739.31	167.18
1	67	419	1.92	0.71	0.81	1.82	0.33	913.34	174.74	190.78	897.29	107.67
1	67	420	2.15	0.67	0.68	2.13	-0.15	1009.64	192.43	197.00	1005.07	60.94
1	67	421	2.68	0.35	0.64	2.38	-0.77	1080.38	208.09	208.74	1079.73	23.73
1	67	422	3.38	-2.54e-02	0.73	2.62	-1.41	1136.02	215.78	215.83	1135.97	-6.98
1	67	423	3.96	-0.41	0.72	2.83	-1.91	1178.55	225.98	227.77	1176.76	-41.27
1	67	424	4.44	-0.74	0.87	2.83	-2.40	1200.73	229.91	238.32	1192.32	-89.98
1	67	425	5.26	0.10	2.73	2.62	-2.58	1186.03	252.57	283.73	1154.86	-167.69
1	67	426	3.44	-2.61	-1.53	2.35	-2.32	1099.45	140.98	241.01	999.42	-293.04
1	67	427	2.92	-3.82	-3.11	2.21	-2.07	956.63	32.20	307.75	681.08	-422.85
1	67	428	1.37	-5.30	-4.60	0.68	-2.04	840.98	-164.49	411.94	264.55	-497.31
1	67	429	0.36	-9.32e-02	0.25	1.79e-02	0.20	719.80	122.60	690.61	151.79	128.77
1	67	430	1.20	0.23	1.18	0.25	0.12	649.25	260.12	615.86	293.51	108.99
1	67	431	2.50	0.30	2.49	0.31	0.13	617.46	400.45	492.94	524.98	107.32
1	67	432	0.71	-0.99	-0.99	0.70	1.00e-01	739.90	295.29	314.60	720.59	90.61
1	67	433	1.19	-0.31	-0.30	1.18	-0.11	876.29	261.20	267.83	869.66	63.50
1	67	434	1.70	8.69e-02	0.20	1.58	-0.41	980.29	254.64	256.58	978.35	37.47
1	67	435	2.33	0.19	0.68	1.84	-0.90	1057.02	255.09	255.38	1056.72	15.38
1	67	436	3.05	0.12	1.21	1.97	-1.41	1112.71	261.82	261.85	1112.67	-5.36

1	67	437	3.63	0.11	1.78	1.96	-1.76	1147.28	289.26	290.30	1146.24	-29.83
1	67	438	4.07	2.38e-02	2.34	1.75	-2.00	1149.10	340.51	345.83	1143.78	-65.36
1	67	439	4.15	-8.57e-02	2.66	1.40	-2.02	1099.04	396.64	417.73	1077.95	-119.86
1	67	440	1.90	-2.73	-1.90	1.08	-1.77	982.19	365.90	433.07	915.02	-192.05
1	67	441	1.13	-3.82	-3.37	0.68	-1.43	861.07	335.79	555.25	641.61	-259.07
1	67	442	0.34	-5.34	-5.19	0.19	-0.92	879.25	127.85	722.13	284.98	-305.57
1	67	443	9.56e-02	-0.13	-2.30e-02	-1.62e-02	0.12	796.98	169.90	795.61	171.28	-29.30
1	67	444	1.12	4.25e-02	1.06	9.35e-02	0.23	717.91	312.33	715.54	314.71	-30.94
1	67	445	2.40	0.22	2.36	0.25	0.26	588.73	529.09	583.66	534.16	-16.63
1	67	446	0.50	-1.08	-1.06	0.48	0.17	717.79	381.74	381.78	717.75	-3.52
1	67	447	0.98	-0.27	-0.21	0.92	-0.27	862.21	311.96	311.97	862.20	-1.68
1	67	448	1.71	-2.39e-02	0.37	1.32	-0.72	969.52	294.17	294.24	969.45	-7.00
1	67	449	2.30	0.15	0.89	1.57	-1.02	1047.91	277.91	277.91	1047.91	-0.98
1	67	450	2.87	0.21	1.44	1.65	-1.33	1102.86	281.36	281.36	1102.86	-2.03
1	67	451	3.26	0.31	2.01	1.56	-1.46	1131.84	308.60	308.64	1131.79	-5.92
1	67	452	3.54	0.24	2.50	1.28	-1.53	1120.05	372.13	372.68	1119.50	-20.33
1	67	453	3.38	0.21	2.66	0.93	-1.33	1044.16	471.69	472.64	1043.21	-23.25
1	67	454	0.91	-2.40	-2.12	0.62	-0.93	885.33	501.97	506.52	880.78	-41.51
1	67	455	0.34	-3.84	-3.78	0.27	-0.51	706.67	568.16	650.39	624.43	-68.03
1	67	456	2.93e-02	-5.72	-5.71	2.52e-02	-0.15	852.34	273.25	839.72	285.87	-84.55
1	67	457	0.12	-3.79e-02	3.65e-02	4.63e-02	7.92e-02	762.35	144.60	742.49	164.46	-108.95
1	67	458	1.12	-1.52e-02	0.95	0.16	0.41	685.64	285.76	662.17	309.23	-93.99
1	67	459	2.50	7.26e-02	2.39	0.18	0.50	624.01	449.10	536.50	536.60	-87.46
1	67	460	1.19	0.28	0.97	0.51	0.40	752.25	360.59	385.06	727.78	-94.80
1	67	461	1.00	-0.22	-0.21	0.99	0.11	882.97	277.86	286.66	874.16	-72.47
1	67	462	1.42	0.35	0.35	1.41	-9.19e-02	984.28	264.50	267.88	980.90	-49.24
1	67	463	1.69	0.86	0.88	1.68	-0.12	1059.11	261.98	263.25	1057.83	-31.82
1	67	464	1.85	1.34	1.44	1.75	-0.20	1111.76	267.20	267.40	1111.55	-13.11
1	67	465	2.10	1.62	2.04	1.67	-0.15	1141.28	291.45	291.61	1141.12	11.52
1	67	466	2.59	1.38	2.57	1.40	-0.15	1132.97	345.79	348.34	1130.42	44.73
1	67	467	1.84	1.05	1.83	1.06	-7.53e-02	1064.34	410.09	420.94	1053.50	83.55
1	67	468	0.87	-2.27	-2.27	0.86	4.90e-02	929.88	417.90	463.26	884.52	145.49
1	67	469	0.72	-4.22	-4.20	0.69	0.36	807.02	411.67	599.23	619.47	197.42
1	67	470	0.38	-6.15	-6.09	0.31	0.65	854.70	194.40	772.19	276.90	218.34
1	67	471	0.15	-0.44	-0.17	-0.12	-0.30	630.91	-4.91	506.30	119.70	-252.39
1	67	472	1.33	-0.15	0.72	0.47	0.73	606.69	115.79	445.71	276.77	-230.46
1	67	473	2.65	0.33	2.62	0.36	0.27	680.28	207.99	349.67	538.61	-216.43
1	67	474	1.09	0.86	1.06	0.89	-7.75e-02	804.12	199.19	249.89	753.42	-167.63
1	67	475	1.52	0.37	0.39	1.50	0.16	922.90	194.20	211.25	905.85	-110.15
1	67	476	2.09	0.42	0.62	1.89	0.54	1015.26	202.88	207.34	1010.80	-60.03
1	67	477	2.49	0.51	0.85	2.14	0.75	1084.22	215.28	215.88	1083.62	-22.91
1	67	478	2.76	0.74	1.23	2.26	0.87	1136.29	223.80	223.92	1136.17	10.27
1	67	479	3.19	0.98	1.87	2.30	1.09	1172.98	241.79	244.29	1170.48	48.19
1	67	480	3.54	1.12	2.52	2.14	1.20	1182.84	270.07	280.86	1172.05	98.64
1	67	481	3.51	1.25	2.95	1.81	0.98	1144.45	287.79	322.76	1109.48	169.52
1	67	482	1.70	-2.24	-2.18	1.64	0.47	1037.19	194.72	298.97	932.94	277.43
1	67	483	1.89	-4.78	-4.73	1.84	0.59	885.05	130.53	393.33	622.25	359.48
1	67	484	1.18	-6.94	-6.51	0.76	1.81	805.00	-48.25	512.47	244.28	405.00
1	67	485	-1.93	-6.94	-6.73	-2.14	1.01	248.66	-311.53	-19.09	-43.78	-279.82
1	67	486	5.19	-1.06	3.16	0.97	2.93	413.10	-154.22	57.74	201.14	-274.44
1	67	487	4.41	0.49	2.98	1.92	-1.89	707.53	-101.87	38.25	567.41	-306.24
1	67	488	2.48	-0.54	-0.29	2.23	-0.83	848.93	-31.24	20.67	797.02	-207.35
1	67	489	2.49	4.71e-02	5.53e-02	2.48	-0.14	972.46	60.56	77.65	955.37	-123.63
1	67	490	2.68	0.69	0.72	2.65	0.24	1055.63	125.29	129.69	1051.23	-63.81
1	67	491	2.88	0.64	0.68	2.84	0.31	1116.34	151.58	152.11	1115.82	-22.46
1	67	492	3.14	0.69	0.79	3.04	0.51	1166.70	164.22	164.30	1166.62	8.89
1	67	493	3.73	0.73	1.16	3.30	1.05	1209.45	170.05	172.04	1207.46	45.45
1	67	494	4.30	0.83	1.60	3.53	1.45	1236.17	154.02	162.75	1227.45	96.79
1	67	495	4.64	2.12	2.97	3.79	1.19	1226.14	130.88	155.81	1201.21	163.37
1	67	496	3.97	0.51	0.59	3.89	0.52	1140.17	-16.69	72.71	1050.77	308.92
1	67	497	4.11	-5.89	-5.72	3.94	1.29	892.47	-236.66	8.27	647.54	465.37
1	67	498	-1.17	-5.99	-4.58	-2.58	2.19	583.34	-432.40	15.38	135.57	504.30
1	67	499	14.31	-14.84	12.47	-13.00	-7.08	-191.21	-536.91	-471.01	-257.10	-135.78
1	67	500	-3.46	-9.43	-9.31	-3.57	-0.82	187.91	-851.57	-603.95	-59.72	-442.81
1	67	501	2.05	-2.90	-2.90	2.05	-0.18	640.18	-564.64	-477.21	552.75	-312.56
1	67	502	4.00	-1.55	-1.39	3.85	-0.90	892.91	-260.40	-236.55	869.06	-164.14
1	67	503	3.65	0.40	0.51	3.55	-0.57	1015.10	-48.95	-41.91	1008.05	-86.31
1	67	504	3.48	0.77	0.83	3.42	-0.40	1088.29	54.19	56.27	1086.21	-46.34
1	67	505	3.56	0.44	0.51	3.49	-0.48	1142.39	96.61	98.16	1140.84	-40.29
1	67	506	3.80	0.31	0.35	3.76	-0.34	1189.75	112.00	112.63	1189.12	-26.02
1	67	507	4.30	0.39	0.40	4.30	0.15	1236.07	101.47	101.60	1235.94	12.04
1	67	508	5.14	1.15	1.23	5.06	0.56	1274.15	66.22	67.91	1272.45	45.17
1	67	509	6.20	2.94	3.06	6.08	0.62	1288.64	-10.06	-2.94	1281.51	95.93
1	67	510	9.28	3.86	4.09	9.05	-1.09	1274.57	-190.92	-152.71	1236.36	233.53
1	67	511	8.50	-2.92	1.37	4.21	-5.53	911.17	-732.32	-535.26	714.11	533.89
1	67	512	14.19	-13.81	14.07	-13.70	-1.83	214.16	-923.44	-671.19	-38.09	472.57

1	67	513	2.32	0.72	1.05	1.99	0.65	905.02	283.94	293.20	895.76	75.24
1	67	514	17.28	-3.39	16.89	-3.00	-2.82	-45.04	-1753.03	-1751.01	-47.06	58.69
1	67	515	12.67	8.30	8.99	11.98	-1.59	726.22	-691.50	-689.77	724.49	49.41
1	67	516	5.25	-0.64	-0.62	5.24	-0.32	905.27	-363.16	-361.52	903.64	45.55
1	67	517	4.24	1.11	1.18	4.17	-0.46	1026.79	-94.28	-93.59	1026.10	27.74
1	67	518	3.91	1.01	1.12	3.79	-0.57	1091.97	26.59	26.72	1091.84	11.71
1	67	519	3.95	0.35	0.53	3.78	-0.77	1139.88	76.05	76.06	1139.87	-3.07
1	67	520	4.27	-3.47e-02	0.16	4.07	-0.90	1186.55	91.05	91.58	1186.03	-24.01
1	67	521	4.90	1.49e-02	0.19	4.73	-0.92	1235.87	72.47	73.71	1234.63	-37.92
1	67	522	5.83	0.24	0.39	5.68	-0.91	1281.13	9.02	11.28	1278.87	-53.57
1	67	523	6.82	3.60	3.66	6.76	-0.45	1313.53	-76.99	-74.09	1310.62	-63.50
1	67	524	10.32	4.00	9.89	4.43	1.59	1354.84	-330.20	-327.37	1352.01	-69.01
1	67	525	30.38	-24.73	30.04	-24.39	4.32	1330.80	-909.41	-907.32	1328.71	-68.33
1	67	526	1.65	-2.08	-1.90	1.47	0.80	657.39	284.69	349.91	592.17	141.61
1	67	527	0.90	-2.18	-2.16	0.88	0.25	543.73	159.43	477.20	225.96	145.40
1	67	528	3.54	-2.25	3.53	-2.24	-0.24	194.82	-27.33	192.13	-24.63	-24.32
1	67	529	-2.18	-5.75	-5.41	-2.53	-1.06	293.61	-65.80	99.43	128.37	-179.12
1	67	530	1.72	-0.69	-0.11	1.14	-1.04	581.85	94.54	141.83	534.56	-144.25
1	67	531	1.95	0.25	0.27	1.93	-0.17	797.48	136.12	149.19	784.41	-92.06
1	67	532	2.04	0.26	0.28	2.02	0.18	935.34	133.51	138.22	930.63	-61.26
1	67	533	2.26	0.18	0.25	2.18	0.39	1022.38	122.41	123.77	1021.02	-34.99
1	67	534	2.55	0.14	0.26	2.43	0.53	1080.04	116.77	116.86	1079.95	-9.11
1	67	535	2.88	8.98e-02	0.25	2.72	0.65	1119.46	116.48	116.51	1119.44	-5.04
1	67	536	3.27	7.97e-02	0.29	3.06	0.79	1141.51	126.54	126.80	1141.26	16.11
1	67	537	3.79	8.13e-02	0.38	3.50	1.00	1138.13	143.41	145.13	1136.41	41.31
1	67	538	4.34	0.23	0.75	3.82	1.36	1090.86	162.35	168.98	1084.22	78.23
1	67	539	8.42	-6.73	7.19	-5.49	4.15	-410.62	-692.94	-671.24	-432.31	75.19
1	67	540	-0.28	-7.47	-6.19	-1.57	-2.75	206.94	-1112.03	-810.14	-94.95	554.12
1	67	541	2.47	-4.79	-2.57	0.25	3.34	655.82	-704.20	-584.25	535.87	385.68
1	67	542	4.42	0.34	0.55	4.21	0.90	904.25	-278.24	-242.80	868.82	201.60
1	67	543	3.83	1.93	1.93	3.82	0.12	1009.47	-49.53	-35.41	995.35	121.49
1	67	544	3.56	1.18	1.20	3.54	-0.23	1071.11	48.77	53.42	1066.46	68.81
1	67	545	3.68	0.46	0.60	3.55	-0.65	1117.03	94.92	95.66	1116.29	27.47
1	67	546	4.06	-1.62e-02	0.23	3.81	-0.98	1162.20	107.51	107.79	1161.93	-16.92
1	67	547	4.67	-0.41	-9.75e-02	4.36	-1.22	1211.35	85.28	88.24	1208.39	-57.67
1	67	548	5.56	1.97e-02	0.44	5.14	-1.47	1257.23	33.01	42.58	1247.66	-107.79
1	67	549	6.48	0.60	1.00	6.07	-1.49	1285.53	-91.95	-68.44	1262.02	-178.42
1	67	550	7.67	3.49	3.65	7.51	-0.80	1305.87	-293.24	-221.27	1233.90	-331.53
1	67	551	17.65	-2.81	7.69	7.14	10.23	1093.84	-841.56	-623.55	875.82	-611.90
1	67	552	8.71	-8.69	5.75	-5.73	6.53	101.84	-1204.04	-926.57	-175.62	-534.18
1	67	553	-2.22	-8.88	-8.88	-2.23	-0.13	258.13	-551.31	-199.01	-94.17	401.31
1	67	554	7.14	1.83	5.31	3.66	-2.52	474.03	-338.68	-42.93	178.28	391.01
1	67	555	4.49	1.44	2.87	3.07	1.52	765.51	-287.39	-79.89	558.01	418.83
1	67	556	3.87	1.60	2.88	2.59	1.12	878.73	-84.19	16.04	778.50	294.06
1	67	557	3.05	1.88	2.19	2.74	0.51	967.54	44.77	86.60	925.71	191.96
1	67	558	2.79	1.49	1.49	2.79	1.16e-02	1024.24	116.55	130.58	1010.21	111.97
1	67	559	3.04	0.73	0.88	2.89	-0.56	1068.10	149.48	151.78	1065.80	45.89
1	67	560	3.47	0.13	0.51	3.10	-1.05	1111.77	158.90	159.21	1111.46	-17.17
1	67	561	3.97	-0.36	0.19	3.42	-1.44	1157.86	142.86	149.72	1151.00	-83.18
1	67	562	4.42	-1.25	-0.63	3.80	-1.77	1199.08	82.01	105.56	1175.53	-160.48
1	67	563	4.80	-0.66	-5.34e-02	4.20	-1.71	1223.29	2.74	61.55	1164.47	-261.40
1	67	564	5.31	0.65	0.66	5.30	-0.23	1202.15	-155.12	-0.16	1047.19	-431.64
1	67	565	8.81	-6.37	-5.84	8.28	-2.79	1016.39	-451.05	-85.13	650.47	-634.88
1	67	566	1.99	-6.88	-4.08	-0.81	-4.12	685.44	-759.73	-196.78	122.48	-704.73
1	67	567	2.12	-0.35	1.85	-7.97e-02	0.76	710.41	-192.67	422.17	95.57	420.98
1	67	568	1.69	1.10	1.68	1.10	-6.97e-02	692.02	-78.42	366.39	247.20	380.58
1	67	569	2.77	0.80	2.74	0.83	0.24	770.00	26.87	290.44	506.44	355.53
1	67	570	3.17	1.00	3.00	1.18	0.60	844.97	123.94	255.41	713.50	278.40
1	67	571	2.66	1.42	2.48	1.60	0.44	910.13	183.94	241.99	852.08	196.94
1	67	572	1.90	1.82	1.86	1.86	4.18e-02	961.88	216.69	235.55	943.02	117.06
1	67	573	2.29	0.99	1.25	2.03	-0.52	1006.66	228.49	231.22	1003.93	46.00
1	67	574	2.77	0.35	0.95	2.17	-1.04	1048.95	232.00	232.38	1048.58	-17.47
1	67	575	3.07	-0.27	0.50	2.29	-1.41	1088.59	228.71	237.70	1079.61	-87.43
1	67	576	3.11	-1.19	-0.42	2.33	-1.65	1119.03	197.97	230.88	1086.13	-170.95
1	67	577	2.96	-1.63	-1.04	2.38	-1.54	1128.86	149.31	238.38	1039.78	-281.63
1	67	578	3.07	-2.66	-2.32	2.73	-1.35	1100.43	54.42	270.94	883.90	-423.80
1	67	579	3.58	-4.80	-4.31	3.09	-1.97	1024.22	-101.79	334.68	587.75	-548.60
1	67	580	2.39	-6.29	-5.16	1.26	-2.92	962.62	-313.73	427.56	221.33	-629.79
1	67	581	1.58	1.10e-03	1.57	5.06e-03	7.89e-02	879.27	21.06	750.87	149.45	306.11
1	67	582	1.96	0.27	1.96	0.27	-2.47e-02	807.78	148.66	669.83	286.62	268.14
1	67	583	2.53	0.28	2.52	0.29	9.57e-02	773.60	269.72	545.36	497.95	250.82
1	67	584	2.89	0.47	2.87	0.49	0.22	794.17	324.30	448.23	670.24	207.06
1	67	585	2.67	0.79	2.65	0.81	0.18	845.97	329.87	379.63	796.21	152.34
1	67	586	2.16	1.07	2.16	1.07	-7.56e-02	900.81	318.90	334.99	884.71	95.43
1	67	587	1.98	0.84	1.58	1.24	-0.54	948.56	307.94	309.94	946.56	35.73
1	67	588	2.31	0.37	1.34	1.33	-0.97	989.43	307.84	308.17	989.10	-15.09

1	67	589	2.18	-0.49	0.35	1.34	-1.24	1019.85	309.17	316.97	1012.05	-74.02
1	67	590	2.07	-1.13	-0.34	1.28	-1.38	1033.03	318.54	348.04	1003.52	-142.17
1	67	591	1.81	-1.84	-1.23	1.21	-1.36	1024.61	319.33	403.95	940.00	-229.17
1	67	592	1.64	-2.97	-2.55	1.23	-1.31	995.18	287.88	489.67	793.38	-319.39
1	67	593	1.44	-4.49	-4.09	1.04	-1.47	976.73	184.51	606.86	554.39	-395.24
1	67	594	0.73	-5.93	-5.67	0.47	-1.29	1017.47	-22.82	748.84	245.81	-455.30
1	67	595	0.94	-3.95e-02	0.94	-3.70e-02	4.88e-02	947.13	135.53	913.53	169.14	161.68
1	67	596	1.65	3.99e-02	1.65	3.99e-02	-2.66e-03	862.61	270.93	828.34	305.20	138.21
1	67	597	2.39	0.13	2.39	0.13	-5.74e-03	755.56	433.46	692.02	497.00	128.17
1	67	598	2.80	0.26	2.80	0.26	5.76e-03	725.14	493.99	570.06	649.08	108.61
1	67	599	2.73	0.33	2.73	0.34	-4.24e-02	783.64	451.17	473.06	761.76	82.44
1	67	600	2.37	0.52	2.34	0.55	-0.24	852.30	400.11	406.17	846.25	51.98
1	67	601	2.05	0.43	1.80	0.69	-0.59	906.94	367.76	368.37	906.34	18.01
1	67	602	2.09	0.16	1.54	0.71	-0.87	945.86	363.44	363.61	945.69	-10.03
1	67	603	1.60	-0.47	0.49	0.64	-1.03	965.57	376.92	380.42	962.07	-45.23
1	67	604	1.26	-1.09	-0.31	0.49	-1.11	959.34	413.96	428.76	944.55	-88.60
1	67	605	0.93	-1.87	-1.35	0.41	-1.09	922.20	464.22	508.26	878.15	-135.02
1	67	606	0.62	-3.02	-2.69	0.29	-1.04	874.42	489.68	619.96	744.15	-182.07
1	67	607	0.28	-4.51	-4.32	8.39e-02	-0.94	895.59	399.17	760.30	534.45	-221.03
1	67	608	2.54e-02	-6.22	-6.17	-2.68e-02	-0.57	1013.21	163.74	928.85	248.10	-254.05
1	67	609	0.55	-8.35e-02	0.54	-6.54e-02	0.11	971.03	174.69	971.01	174.71	-3.90
1	67	610	1.35	-6.37e-02	1.35	-5.61e-02	0.10	884.58	310.74	884.49	310.83	-7.30
1	67	611	2.33	-5.09e-02	2.33	-4.98e-02	5.12e-02	747.59	495.88	747.58	495.88	-1.02
1	67	612	2.78	5.03e-02	2.78	5.45e-02	0.11	641.49	617.37	618.23	640.63	4.46
1	67	613	2.78	0.22	2.76	0.24	0.18	752.15	511.65	511.91	751.89	7.84
1	67	614	2.42	0.41	2.42	0.42	9.03e-02	834.16	436.65	436.82	834.00	8.19
1	67	615	1.90	0.45	1.89	0.46	-0.11	891.16	394.11	394.11	891.16	0.53
1	67	616	1.68	0.39	1.62	0.44	-0.26	928.47	388.06	388.06	928.47	1.02
1	67	617	0.79	0.11	0.55	0.35	-0.32	942.21	407.38	407.39	942.20	-2.70
1	67	618	0.45	-0.56	-0.31	0.20	-0.44	922.22	461.27	461.47	922.02	-9.79
1	67	619	0.23	-1.60	-1.40	3.38e-02	-0.57	855.35	547.87	549.02	854.20	-18.78
1	67	620	4.51e-02	-2.94	-2.81	-7.84e-02	-0.59	739.51	655.94	669.49	725.96	-30.80
1	67	621	-9.95e-02	-4.56	-4.51	-0.15	-0.49	824.33	521.56	818.23	527.67	-42.56
1	67	622	-0.11	-6.45	-6.44	-0.13	-0.26	998.44	244.48	994.90	248.03	-51.59
1	67	623	0.53	-0.11	0.48	-6.11e-02	0.17	958.91	153.06	939.26	172.71	-124.29
1	67	624	1.36	-8.79e-02	1.32	-4.41e-02	0.25	875.64	288.01	853.83	309.82	-111.10
1	67	625	2.36	-3.87e-02	2.34	-1.97e-02	0.21	760.62	457.88	718.76	499.74	-104.50
1	67	626	2.83	8.72e-02	2.81	0.11	0.24	720.47	522.50	593.62	649.35	-94.98
1	67	627	2.81	0.28	2.76	0.33	0.34	779.84	477.40	494.17	763.07	-69.20
1	67	628	2.45	0.45	2.38	0.52	0.37	849.53	419.33	422.87	845.99	-38.86
1	67	629	1.92	0.48	1.84	0.56	0.32	903.59	382.00	382.59	902.99	-17.63
1	67	630	1.67	0.45	1.58	0.54	0.32	940.66	376.57	376.83	940.41	11.91
1	67	631	0.84	0.12	0.53	0.43	0.36	957.26	390.83	393.67	954.41	40.05
1	67	632	0.34	-0.41	-0.30	0.23	0.27	943.05	434.95	443.63	934.37	65.83
1	67	633	4.71e-02	-1.40	-1.39	4.44e-02	6.26e-02	890.57	500.82	526.07	865.32	95.93
1	67	634	-5.41e-02	-2.86	-2.86	-5.58e-02	-6.91e-02	836.41	538.19	641.48	733.12	141.89
1	67	635	-9.08e-02	-4.66	-4.66	-9.12e-02	-3.89e-02	871.43	443.19	785.58	529.04	171.45
1	67	636	-8.70e-02	-6.62	-6.62	-8.70e-02	3.87e-03	1006.89	196.86	957.49	246.26	193.84
1	67	637	0.65	-3.34e-02	0.59	2.37e-02	0.19	911.74	56.44	808.05	160.12	-279.16
1	67	638	1.41	-5.45e-02	1.31	4.91e-02	0.38	842.01	184.61	728.85	297.77	-248.17
1	67	639	2.49	-4.69e-02	2.47	-2.77e-02	0.22	788.86	320.09	604.35	504.59	-229.02
1	67	640	2.92	0.18	2.92	0.18	3.32e-03	790.61	378.91	498.71	670.82	-187.00
1	67	641	2.71	0.51	2.71	0.51	8.39e-04	843.39	369.42	419.40	793.41	-145.58
1	67	642	2.24	0.78	2.22	0.80	0.16	894.06	352.59	366.63	880.03	-86.05
1	67	643	1.74	0.89	1.65	0.97	0.26	942.36	334.37	336.56	940.17	-36.41
1	67	644	1.57	0.78	1.31	1.03	0.37	980.33	330.64	331.04	979.92	16.21
1	67	645	1.34	9.06e-02	0.41	1.02	0.55	1006.82	334.81	342.18	999.44	70.03
1	67	646	1.12	-0.57	-0.31	0.87	0.60	1012.14	350.34	376.91	985.57	129.91
1	67	647	0.78	-1.39	-1.28	0.67	0.48	991.85	364.24	438.70	917.39	202.95
1	67	648	0.62	-2.82	-2.79	0.60	0.27	962.34	341.91	532.51	771.74	286.23
1	67	649	0.55	-4.81	-4.79	0.53	0.33	950.98	247.82	656.88	541.92	346.85
1	67	650	0.21	-6.79	-6.76	0.18	0.49	1007.60	39.44	806.75	240.29	392.58
1	67	651	0.44	-0.21	0.37	-0.15	-0.19	781.64	-130.14	534.46	117.04	-405.31
1	67	652	1.55	6.37e-03	1.15	0.40	0.67	755.51	-9.83	474.95	270.73	-368.80
1	67	653	2.78	0.25	2.78	0.25	-2.37e-03	797.72	103.17	383.49	517.40	-340.75
1	67	654	3.15	0.63	3.04	0.74	-0.51	856.91	186.98	329.72	714.17	-274.33
1	67	655	2.61	1.13	2.52	1.23	-0.36	912.37	234.72	298.13	848.96	-197.35
1	67	656	1.92	1.51	1.92	1.51	-7.36e-03	958.10	258.20	278.21	938.09	-116.64
1	67	657	1.80	1.21	1.32	1.69	0.22	1000.41	262.98	266.07	997.32	-47.62
1	67	658	1.98	0.74	0.91	1.81	0.42	1039.00	262.30	262.72	1038.58	18.02
1	67	659	2.17	-9.49e-02	0.17	1.91	0.73	1073.92	254.39	263.71	1064.60	86.88
1	67	660	2.21	-0.74	-0.40	1.87	0.94	1096.61	238.02	271.63	1063.01	166.49
1	67	661	1.93	-1.37	-1.10	1.66	0.90	1096.37	199.45	290.30	1005.52	270.61
1	67	662	1.63	-2.56	-2.49	1.56	0.53	1066.06	114.32	334.65	845.73	401.44
1	67	663	1.81	-5.01	-4.98	1.77	0.49	998.59	-19.57	416.39	562.63	503.80
1	67	664	1.00	-7.23	-6.95	0.71	1.51	956.93	-223.37	516.82	216.74	570.76

1	67	665	-1.17	-4.81	-4.12	-1.86	1.42	425.79	-419.81	42.11	-36.13	-420.99
1	67	666	5.16	-0.87	3.51	0.79	2.69	555.59	-267.31	80.02	208.25	-406.42
1	67	667	4.53	0.66	3.11	2.08	-1.87	797.30	-170.53	64.23	562.53	-414.85
1	67	668	3.53	1.53	2.82	2.24	-0.95	898.11	-7.14	112.40	778.56	-306.47
1	67	669	2.76	1.73	2.15	2.34	-0.50	975.91	98.72	150.71	923.92	-207.14
1	67	670	2.41	1.50	1.51	2.41	-6.95e-02	1025.39	159.14	176.03	1008.50	-119.77
1	67	671	2.56	0.89	0.92	2.53	0.20	1065.73	184.81	187.53	1063.01	-48.85
1	67	672	2.82	0.45	0.53	2.73	0.43	1105.16	191.39	191.72	1104.83	17.43
1	67	673	3.23	-0.35	-0.17	3.05	0.78	1145.70	170.02	177.69	1138.03	86.19
1	67	674	3.69	-0.95	-0.66	3.40	1.12	1180.06	124.53	151.64	1152.94	166.98
1	67	675	4.14	-1.52	-1.19	3.81	1.33	1197.63	35.35	107.19	1125.79	279.89
1	67	676	4.21	0.11	0.31	4.01	0.89	1170.54	-87.79	98.68	984.07	447.06
1	67	677	4.41	-5.55	-5.34	4.20	1.44	986.06	-347.92	31.15	607.00	601.64
1	67	678	-1.57	-7.18	-6.70	-2.05	1.58	707.66	-599.39	-10.25	118.52	650.34
1	67	679	13.78	-13.80	12.84	-12.85	-5.03	-40.38	-636.56	-440.93	-236.01	-279.93
1	67	680	-2.46	-9.38	-9.38	-2.46	-7.66e-02	327.07	-926.33	-576.09	-23.18	-562.43
1	67	681	2.56	-2.29	-2.28	2.56	-0.18	724.07	-588.86	-434.53	569.73	-422.86
1	67	682	3.93	0.64	0.71	3.87	-0.46	929.05	-220.43	-162.92	871.54	-250.60
1	67	683	3.44	1.85	1.86	3.43	-0.11	1028.70	-13.22	11.98	1003.50	-160.06
1	67	684	3.23	1.14	1.15	3.22	0.15	1083.17	78.02	86.02	1075.17	-89.32
1	67	685	3.28	0.55	0.58	3.25	0.30	1124.37	119.93	121.15	1123.15	-34.98
1	67	686	3.57	0.16	0.21	3.52	0.41	1164.51	132.34	132.50	1164.35	12.86
1	67	687	4.16	-0.58	-0.50	4.07	0.62	1207.39	101.92	105.64	1203.67	64.04
1	67	688	5.03	-1.09	-0.97	4.91	0.84	1246.06	34.75	48.10	1232.71	126.46
1	67	689	6.25	1.51	1.65	6.10	0.83	1269.10	-36.98	-2.37	1234.49	209.77
1	67	690	9.36	3.92	4.02	9.26	-0.72	1280.41	-220.16	-123.97	1184.22	367.54
1	67	691	9.04	-4.08	0.63	4.33	-6.30	972.67	-805.61	-510.20	677.26	661.86
1	67	692	13.22	-12.77	12.76	-12.31	-3.45	323.56	-1021.55	-646.62	-51.37	603.12
1	67	693	3.53	-1.06	0.82	1.65	-2.26	731.40	39.32	143.62	627.11	247.60
1	67	694	16.16	-5.17	16.10	-5.11	-1.13	-8.67	-1692.98	-1691.53	-10.11	-49.24
1	67	695	11.16	8.58	8.80	10.93	-0.73	760.03	-655.00	-652.35	757.38	-61.17
1	67	696	4.93	0.53	0.57	4.90	0.40	937.66	-311.82	-310.12	935.97	-45.96
1	67	697	4.15	1.61	1.82	3.94	0.70	1058.12	-60.70	-59.85	1057.26	-30.96
1	67	698	3.75	0.86	1.03	3.59	0.67	1121.93	40.44	40.61	1121.75	-13.90
1	67	699	3.66	0.37	0.46	3.57	0.54	1166.70	87.48	87.48	1166.69	2.73
1	67	700	3.88	5.83e-02	9.41e-02	3.85	0.37	1207.92	101.17	101.43	1207.65	17.25
1	67	701	4.46	-0.27	-0.25	4.45	0.25	1249.99	75.06	76.17	1248.87	36.20
1	67	702	5.33	-0.38	-0.38	5.33	6.86e-03	1285.50	6.89	9.02	1283.36	52.21
1	67	703	6.34	3.23	3.26	6.31	-0.31	1304.86	-67.59	-64.94	1302.21	60.18
1	67	704	9.46	4.22	9.40	4.27	0.54	1328.37	-312.40	-309.97	1325.94	63.09
1	67	705	28.29	-23.67	28.22	-23.60	1.95	1253.94	-902.80	-900.62	1251.76	68.51
1	67	706	5.11	-6.77	2.28	-3.94	-5.06	355.30	-97.86	178.08	79.35	221.14
1	67	707	3.72	2.79	3.29	3.23	-0.46	104.52	-301.76	-285.54	88.30	-79.53
1	67	708	5.25	2.13	2.13	5.24	-0.13	590.64	-28.73	0.13	561.78	-130.54
1	67	709	2.52	7.80e-02	7.87e-02	2.52	-4.03e-02	820.68	18.03	40.08	798.63	-131.19
1	67	710	2.19	6.48e-02	6.52e-02	2.19	2.97e-02	958.01	37.61	48.35	947.28	-98.82
1	67	711	2.34	8.62e-02	9.69e-02	2.33	0.16	1039.98	42.97	46.65	1036.30	-60.46
1	67	712	2.61	6.30e-02	9.46e-02	2.57	0.28	1094.29	43.97	44.42	1093.84	-21.66
1	67	713	2.96	4.20e-02	8.72e-02	2.91	0.36	1134.38	44.77	44.78	1134.37	-3.97
1	67	714	3.41	2.91e-02	7.45e-02	3.37	0.39	1160.82	48.64	49.41	1160.05	29.25
1	67	715	4.07	1.62e-02	6.12e-02	4.02	0.42	1166.36	53.39	57.25	1162.49	65.48
1	67	716	5.22	0.23	0.32	5.13	0.66	1140.74	55.32	67.62	1128.44	114.90
1	67	717	5.10	2.19	3.23	4.06	1.40	1038.60	42.89	69.50	1011.98	160.60
1	67	718	11.39	-6.46	11.39	-6.45	-0.19	855.89	-17.70	13.39	824.80	161.84
1	67	719	7.90	-7.95	5.64	-5.69	5.54	-416.25	-633.83	-628.01	-422.07	-35.11
1	67	720	-7.75e-02	-7.31	-6.07	-1.31	-2.72	117.96	-963.84	-773.61	-72.26	411.83
1	67	721	1.35	-4.25	-2.64	-0.26	2.53	635.16	-618.20	-565.51	582.47	251.52
1	67	722	4.28	5.41e-02	0.54	3.80	1.35	929.42	-234.23	-225.18	920.37	102.22
1	67	723	4.17	1.19	1.81	3.55	1.21	1054.34	-28.68	-25.33	1050.99	60.14
1	67	724	3.76	0.71	1.12	3.35	1.03	1126.47	58.13	59.74	1124.86	41.44
1	67	725	3.57	0.38	0.56	3.38	0.75	1174.89	98.24	99.27	1173.87	33.17
1	67	726	3.68	0.16	0.21	3.62	0.42	1216.03	109.50	110.14	1215.39	26.53
1	67	727	4.09	-0.11	-0.10	4.09	4.84e-02	1254.74	89.45	89.82	1254.38	20.51
1	67	728	4.74	0.30	0.34	4.70	-0.42	1282.32	43.36	43.37	1282.32	2.64
1	67	729	5.59	2.30	2.56	5.33	-0.88	1281.02	-32.71	-31.25	1279.57	-43.64
1	67	730	5.96	2.91	2.99	5.88	-0.49	1241.05	-244.60	-221.84	1218.29	-182.46
1	67	731	14.66	-2.78	6.12	5.76	8.72	955.68	-740.14	-613.80	829.34	-445.30
1	67	732	6.59	-7.64	5.42	-6.48	3.90	-44.62	-1006.06	-861.71	-188.98	-343.44
1	67	733	-1.71	-8.97	-8.83	-1.85	0.99	134.49	-356.60	-154.57	-67.54	241.66
1	67	734	6.26	1.29	3.72	3.82	-2.49	354.47	-179.51	-31.84	206.80	238.84
1	67	735	3.66	1.23	2.04	2.84	1.15	707.97	-175.13	-77.81	610.65	276.53
1	67	736	3.28	0.62	1.56	2.34	1.27	890.39	-43.47	-6.81	853.73	181.36
1	67	737	3.61	0.98	1.99	2.59	1.28	1029.44	63.42	79.45	1013.40	123.42
1	67	738	3.34	0.37	0.98	2.72	1.20	1111.41	106.58	112.87	1105.12	79.27
1	67	739	3.20	0.33	0.66	2.86	0.92	1165.27	134.37	136.88	1162.75	50.82
1	67	740	3.15	0.45	0.55	3.05	0.52	1206.57	145.62	146.38	1205.81	28.38

1	67	741	3.27	0.81	0.81	3.27	6.06e-02	1238.49	148.48	148.48	1238.49	0.76
1	67	742	3.53	1.12	1.16	3.48	-0.34	1250.68	126.62	128.91	1248.39	-50.72
1	67	743	3.78	1.39	1.55	3.62	-0.59	1228.27	74.35	87.68	1214.94	-123.28
1	67	744	4.54	0.20	0.23	4.51	0.35	1130.92	-58.35	5.28	1067.28	-267.64
1	67	745	7.69	-6.66	-6.32	7.34	-2.19	858.21	-270.26	-54.30	642.25	-443.92
1	67	746	2.02	-7.74	-4.36	-1.35	-4.64	492.37	-518.52	-145.99	119.85	-487.65
1	67	747	1.46	-0.71	0.69	5.86e-02	1.04	529.32	-6.77	404.20	118.35	226.77
1	67	748	1.24	0.48	0.48	1.23	3.57e-02	522.58	106.39	341.17	287.80	206.38
1	67	749	1.75	0.93	1.72	0.96	0.14	670.27	161.23	255.49	576.01	197.73
1	67	750	2.67	1.01	2.45	1.23	0.57	849.39	180.48	217.69	812.17	153.33
1	67	751	2.56	0.69	1.56	1.69	0.93	989.42	174.68	192.13	971.97	117.96
1	67	752	2.92	0.37	1.26	2.03	1.21	1083.23	182.73	191.00	1074.96	85.92
1	67	753	2.79	0.41	0.95	2.25	1.00	1143.95	192.11	195.39	1140.67	55.81
1	67	754	2.63	0.64	0.90	2.37	0.66	1184.94	196.98	197.89	1184.03	29.96
1	67	755	2.54	1.24	1.34	2.43	0.36	1208.34	217.10	217.11	1208.33	-2.42
1	67	756	2.36	1.26	1.27	2.36	8.53e-02	1201.85	223.01	225.61	1199.25	-50.38
1	67	757	2.29	-0.87	-0.86	2.28	-0.14	1146.12	190.46	208.21	1128.36	-129.06
1	67	758	2.68	-2.38	-2.31	2.61	-0.60	1021.58	171.93	251.97	941.53	-248.20
1	67	759	3.39	-4.79	-4.38	2.97	-1.80	846.83	101.27	331.77	616.32	-344.56
1	67	760	2.48	-6.16	-4.94	1.26	-3.01	740.89	-68.53	440.51	231.85	-391.03
1	67	761	0.35	-0.10	0.18	5.93e-02	0.22	672.33	153.18	655.90	169.60	90.87
1	67	762	0.72	0.38	0.72	0.38	2.01e-03	595.37	305.46	572.07	328.76	78.81
1	67	763	1.73	0.50	1.73	0.50	4.93e-02	620.90	407.84	448.36	580.39	83.61
1	67	764	2.37	0.67	2.26	0.78	0.42	807.20	339.15	352.78	793.57	78.72
1	67	765	2.02	0.27	1.10	1.20	0.87	955.54	264.50	271.39	948.64	68.70
1	67	766	2.34	-5.76e-02	0.72	1.56	1.12	1056.42	234.63	237.83	1053.21	51.22
1	67	767	2.51	0.42	1.12	1.80	0.99	1122.64	243.38	244.45	1121.57	30.71
1	67	768	2.39	0.56	1.05	1.90	0.81	1164.32	240.21	240.40	1164.13	13.27
1	67	769	2.33	0.96	1.43	1.86	0.65	1181.60	267.53	267.57	1181.56	-6.32
1	67	770	2.03	0.93	1.24	1.72	0.50	1160.68	296.33	297.41	1159.61	-30.44
1	67	771	1.61	-0.91	-0.87	1.57	0.31	1076.84	313.95	320.12	1070.67	-68.30
1	67	772	1.57	-2.18	-2.14	1.53	-0.39	918.33	373.05	405.39	886.00	-128.79
1	67	773	1.57	-3.97	-3.67	1.27	-1.26	752.71	378.74	526.66	604.80	-182.86
1	67	774	0.81	-5.38	-5.11	0.54	-1.27	762.57	175.08	676.56	261.08	-207.68
1	67	775	6.63e-02	-0.19	-0.19	6.25e-02	3.13e-02	684.94	175.80	684.86	175.88	-6.22
1	67	776	0.64	0.20	0.63	0.22	7.74e-02	605.75	335.16	605.69	335.23	-4.17
1	67	777	1.69	0.36	1.67	0.38	0.16	594.43	473.93	482.88	585.48	-31.60
1	67	778	1.26	0.28	0.86	0.69	0.49	795.97	356.36	356.67	795.66	-11.64
1	67	779	1.48	-0.33	4.88e-02	1.10	0.74	947.78	277.51	277.73	947.57	11.94
1	67	780	1.93	-7.25e-02	0.42	1.44	0.86	1048.99	255.40	255.57	1048.82	11.50
1	67	781	2.30	0.34	0.99	1.65	0.92	1114.39	260.11	260.14	1114.36	5.05
1	67	782	2.38	0.39	1.04	1.73	0.93	1154.82	261.27	261.28	1154.81	2.52
1	67	783	2.47	0.57	1.35	1.69	0.93	1169.93	282.51	282.52	1169.93	2.27
1	67	784	2.45	0.66	1.59	1.52	0.89	1145.73	326.61	326.69	1145.65	8.09
1	67	785	1.54	-1.02	-0.77	1.29	0.77	1055.77	341.59	341.87	1055.48	14.20
1	67	786	1.10	-1.93	-1.90	1.07	0.30	873.59	424.47	424.66	873.40	9.24
1	67	787	0.75	-3.45	-3.44	0.74	-0.18	629.21	515.31	546.08	598.45	50.58
1	67	788	0.24	-5.20	-5.20	0.24	-0.15	714.87	246.23	702.30	258.81	75.72
1	67	789	9.15e-02	-0.67	-0.45	-0.13	-0.34	551.96	89.04	505.33	135.67	-139.32
1	67	790	0.66	0.20	0.30	0.56	0.19	526.29	229.25	448.39	307.15	-130.66
1	67	791	1.62	0.51	1.61	0.52	9.56e-02	640.01	313.54	361.08	592.46	-115.16
1	67	792	0.97	-0.41	-0.41	0.97	6.56e-02	832.14	245.94	258.66	819.41	-85.42
1	67	793	1.56	0.68	0.82	1.41	0.32	969.82	258.48	260.25	968.05	-35.50
1	67	794	1.94	0.27	0.56	1.65	0.63	1061.21	247.46	247.64	1061.02	-12.17
1	67	795	2.31	0.32	0.82	1.80	0.87	1119.66	255.20	255.21	1119.66	-2.10
1	67	796	2.52	0.20	0.82	1.89	1.03	1157.29	257.37	257.41	1157.25	6.27
1	67	797	2.68	0.16	0.93	1.91	1.16	1174.62	272.62	272.99	1174.25	18.27
1	67	798	2.63	-0.14	0.68	1.81	1.26	1160.54	282.83	284.73	1158.63	40.84
1	67	799	2.33	-0.39	0.37	1.57	1.22	1090.66	295.92	303.65	1082.93	78.03
1	67	800	1.58	-1.99	-1.70	1.29	0.98	936.24	282.34	317.08	901.51	146.65
1	67	801	1.23	-3.40	-3.28	1.11	0.73	735.96	255.32	394.74	596.55	218.11
1	67	802	0.29	-5.06	-4.97	0.20	0.71	643.17	87.31	503.01	227.48	241.39
1	67	803	-1.50	-3.86	-3.85	-1.50	7.32e-02	181.46	-167.79	19.42	-5.75	-174.17
1	67	804	2.29	1.65	2.02	1.92	0.31	392.54	-42.61	111.43	238.49	-208.09
1	67	805	1.90	-0.29	9.26e-02	1.52	-0.83	690.44	14.31	72.94	631.81	-190.29
1	67	806	2.27	0.32	0.44	2.15	-0.48	880.52	123.54	138.67	865.39	-105.93
1	67	807	2.12	0.41	0.42	2.11	0.13	1005.01	184.73	187.35	1002.39	-46.24
1	67	808	2.30	0.55	0.76	2.09	0.57	1081.54	220.47	220.81	1081.20	-17.23
1	67	809	2.52	0.18	0.57	2.14	0.87	1130.91	231.11	231.12	1130.89	-3.70
1	67	810	2.76	1.44e-02	0.53	2.25	1.07	1165.69	238.48	238.53	1165.65	6.40
1	67	811	3.00	-0.29	0.27	2.44	1.24	1186.77	237.74	238.20	1186.30	21.05
1	67	812	3.30	-0.62	1.36e-02	2.67	1.44	1185.99	225.68	227.85	1183.83	45.58
1	67	813	3.67	-0.55	0.32	2.80	1.70	1145.76	199.69	207.85	1137.60	87.48
1	67	814	2.89	-0.57	-0.21	2.53	1.06	1023.89	103.03	137.18	989.74	174.02
1	67	815	3.94	-5.38	-4.61	3.17	2.56	755.37	-85.36	63.09	606.92	320.57
1	67	816	-0.75	-1.98	-1.29	-1.44	0.61	416.06	-239.59	45.07	131.40	324.97

1	67	817	13.69	-4.15	13.04	-3.50	-3.34	-445.11	-634.71	-607.92	-471.90	66.05
1	67	818	-4.91	-5.57	-5.27	-5.21	0.33	229.80	-684.44	-547.92	93.28	-325.84
1	67	819	5.06	-2.42	-0.37	3.01	-3.34	686.17	-227.44	-203.59	662.32	-145.67
1	67	820	3.53	-1.81e-02	-1.68e-02	3.53	-6.74e-02	914.99	21.87	24.55	912.31	-48.80
1	67	821	2.90	-8.91e-03	6.96e-02	2.82	0.47	1029.47	127.44	127.66	1029.26	-13.85
1	67	822	2.75	3.81e-02	0.27	2.51	0.77	1095.28	182.97	182.98	1095.27	-2.40
1	67	823	2.81	-4.48e-03	0.36	2.45	0.94	1138.55	209.89	209.90	1138.54	3.30
1	67	824	2.99	-7.74e-02	0.33	2.58	1.04	1171.26	220.02	220.04	1171.24	4.06
1	67	825	3.31	-0.18	0.20	2.93	1.09	1194.71	216.58	216.70	1194.59	10.78
1	67	826	3.94	-0.37	-3.07e-02	3.61	1.15	1200.95	192.10	192.62	1200.42	22.97
1	67	827	4.99	-1.27	-0.98	4.70	1.32	1172.07	121.10	122.75	1170.41	41.72
1	67	828	7.07	-1.12	-6.79e-02	6.02	2.74	1100.65	-8.08	0.39	1092.18	96.52
1	67	829	3.57	-1.17	2.41	-1.75e-02	-2.03	857.74	-382.47	-321.43	796.70	268.29
1	67	830	11.96	-5.07	10.77	-3.88	-4.35	-222.57	-802.91	-729.84	-295.63	192.52
1	67	831	21.07	5.35	20.87	5.54	-1.73	213.51	-754.70	-754.63	213.44	8.09
1	67	832	12.49	0.74	0.99	12.24	1.67	771.76	-204.43	-203.68	771.01	27.08
1	67	833	3.62	-4.10e-02	2.09e-02	3.56	0.47	917.59	-5.59	-4.73	916.73	28.21
1	67	834	3.21	0.14	0.41	2.94	0.87	1031.72	121.62	122.19	1031.15	22.77
1	67	835	2.93	-0.12	0.22	2.60	0.96	1094.90	173.55	173.81	1094.64	15.49
1	67	836	2.92	-8.67e-02	0.30	2.53	1.01	1137.24	202.10	202.18	1137.16	8.64
1	67	837	3.03	-8.97e-02	0.28	2.66	1.01	1169.44	212.89	212.89	1169.44	1.54
1	67	838	3.31	-0.12	0.16	3.02	0.94	1193.24	208.79	208.79	1193.24	0.92
1	67	839	3.82	-0.42	-0.26	3.66	0.80	1199.45	179.62	179.73	1199.34	10.24
1	67	840	5.25	0.56	0.57	5.24	0.23	1179.12	134.66	134.66	1179.12	1.21
1	67	841	10.72	-1.57	-1.26	10.40	-1.93	1147.64	-28.68	-28.05	1147.00	-27.40
1	67	842	26.20	-1.45	26.14	-1.38	1.30	1062.25	-89.43	-88.38	1061.20	-34.67
1	67	843	2.43	-2.21	-2.06	2.28	-0.84	-522.19	-711.31	-629.37	-604.13	-93.71
1	67	844	2.22	-4.39	0.73	-2.90	-2.76	298.40	-735.28	-598.46	161.58	350.30
1	67	845	5.63	-4.14	-0.24	1.73	4.79	680.55	-257.33	-232.03	655.25	151.95
1	67	846	3.93	-1.22	-1.05	3.76	0.93	915.88	-15.26	-11.63	912.24	58.06
1	67	847	3.18	-0.42	-0.18	2.94	0.91	1027.33	109.08	110.87	1025.53	40.59
1	67	848	3.06	-0.32	9.81e-02	2.64	1.12	1093.22	166.83	168.60	1091.45	40.42
1	67	849	2.97	-0.17	0.25	2.56	1.06	1134.61	196.64	197.03	1134.22	19.16
1	67	850	3.04	-6.67e-02	0.29	2.69	0.99	1166.62	208.23	208.23	1166.62	-0.51
1	67	851	3.26	5.22e-02	0.28	3.03	0.82	1190.14	205.06	205.19	1190.01	11.38
1	67	852	3.70	0.12	0.14	3.68	0.28	1196.41	181.83	181.84	1196.41	0.66
1	67	853	4.98	-1.53e-02	0.22	4.75	-1.05	1168.28	124.94	126.65	1166.57	-42.21
1	67	854	5.83	-2.83	-0.45	3.45	-3.86	1093.81	-30.31	-17.53	1081.03	-119.18
1	67	855	11.59	6.24e-02	10.03	1.62	3.94	954.49	-374.84	-320.81	900.45	-262.51
1	67	856	5.88	-11.94	-5.82	-0.25	8.46	-281.65	-814.85	-705.36	-391.15	-215.39
1	67	857	-0.42	-6.21	-5.93	-0.70	1.25	163.35	-180.98	4.38	-22.01	171.66
1	67	858	4.22	3.13	3.15	4.20	-0.16	384.89	-88.20	79.02	217.68	226.16
1	67	859	2.14	-0.22	3.84e-02	1.88	0.73	698.76	-65.22	4.00	629.54	219.30
1	67	860	2.87	-0.33	2.21e-02	2.51	1.01	878.27	63.77	84.12	857.92	127.12
1	67	861	2.85	-0.30	5.18e-02	2.50	0.99	999.83	135.72	142.68	992.86	77.29
1	67	862	3.03	-0.43	0.15	2.45	1.30	1074.50	173.26	177.03	1070.73	58.18
1	67	863	2.96	-0.15	0.34	2.47	1.13	1121.29	195.05	197.17	1119.17	44.29
1	67	864	2.93	3.15e-02	0.39	2.57	0.95	1153.75	205.12	205.76	1153.10	24.71
1	67	865	2.93	0.33	0.52	2.74	0.68	1174.35	207.18	207.21	1174.32	5.37
1	67	866	2.95	0.68	0.68	2.94	-6.26e-02	1173.47	196.19	196.78	1172.88	-24.07
1	67	867	3.28	2.52e-02	0.41	2.89	-1.05	1136.66	149.45	156.71	1129.40	-84.33
1	67	868	2.83	0.56	0.65	2.75	-0.43	1024.18	60.31	89.75	994.74	-165.86
1	67	869	6.14	-2.97	-2.52	5.69	-1.97	779.82	-111.11	53.61	615.11	-345.86
1	67	870	1.52	-5.16	-4.02	0.38	-2.52	431.56	-261.17	40.37	130.02	-343.45
1	67	871	0.76	-1.23	-0.57	0.10	0.93	458.10	58.78	395.69	121.19	145.01
1	67	872	1.50	-0.35	-6.97e-02	1.22	0.66	458.38	174.24	345.46	287.16	139.05
1	67	873	1.59	4.76e-02	0.56	1.08	0.73	625.62	219.37	268.44	576.56	132.38
1	67	874	2.04	-0.20	0.39	1.46	0.99	827.14	193.19	214.89	805.44	115.27
1	67	875	2.53	-0.19	0.40	1.94	1.13	960.47	192.49	200.78	952.19	79.34
1	67	876	2.78	-0.21	0.40	2.17	1.21	1046.64	194.73	198.76	1042.61	58.45
1	67	877	2.81	-8.19e-02	0.42	2.30	1.10	1100.59	199.18	201.15	1098.61	42.12
1	67	878	2.78	0.12	0.52	2.38	0.95	1135.00	205.96	206.22	1134.74	15.47
1	67	879	2.66	0.41	0.69	2.39	0.74	1153.23	213.36	213.38	1153.21	4.33
1	67	880	2.31	0.82	0.90	2.24	0.33	1143.16	221.10	221.77	1142.48	-24.85
1	67	881	1.96	1.11	1.12	1.96	-7.77e-02	1080.71	229.66	235.47	1074.89	-70.12
1	67	882	2.06	-1.59e-02	0.13	1.91	-0.53	925.70	237.00	261.68	901.01	-128.03
1	67	883	2.30	-2.26	-1.88	1.92	-1.26	729.93	195.37	331.90	593.41	-233.11
1	67	884	1.34	-3.52	-2.86	0.69	-1.66	618.91	52.95	450.53	221.34	-258.74
1	67	885	6.14e-02	-0.92	-0.84	-2.71e-02	0.28	559.26	119.28	531.47	147.07	107.03
1	67	886	0.63	-0.39	-0.19	0.43	0.41	512.45	255.00	465.71	301.74	99.24
1	67	887	0.99	-1.00e-01	0.18	0.72	0.48	584.53	326.80	351.90	559.43	76.41
1	67	888	1.63	0.13	0.56	1.20	0.68	778.61	272.63	276.26	774.99	42.69
1	67	889	2.14	8.08e-02	0.54	1.68	0.86	926.86	227.13	228.64	925.36	32.42
1	67	890	2.46	4.55e-02	0.50	2.01	0.95	1021.91	203.78	204.23	1021.45	19.24
1	67	891	2.65	4.41e-02	0.48	2.21	0.97	1081.87	195.40	195.46	1081.81	6.93
1	67	892	2.73	0.14	0.55	2.33	0.94	1119.86	196.61	196.66	1119.82	-6.59

1	67	893	2.71	0.32	0.71	2.32	0.88	1137.52	208.40	208.54	1137.38	-11.62
1	67	894	2.54	0.54	0.94	2.14	0.80	1123.02	229.94	230.14	1122.82	-13.40
1	67	895	2.13	0.74	1.10	1.78	0.60	1047.90	266.58	267.10	1047.37	-20.34
1	67	896	1.41	0.69	0.70	1.40	8.34e-02	872.90	333.75	334.66	871.99	-22.12
1	67	897	1.25	-1.39	-1.28	1.14	-0.54	588.54	433.08	433.63	587.99	-9.23
1	67	898	0.43	-3.21	-3.14	0.36	-0.48	574.32	240.38	574.07	240.63	-9.06
1	67	899	0.37	-1.92	-1.80	0.25	0.50	444.29	104.61	444.19	104.71	-5.86
1	67	900	1.18	0.37	1.01	0.54	0.33	414.98	266.47	410.51	270.94	-25.37
1	67	901	1.13	-4.15e-02	0.13	0.96	-0.41	559.40	293.48	303.15	549.73	-49.80
1	67	902	1.46	0.47	0.48	1.44	0.10	770.16	243.38	245.49	768.05	-33.26
1	67	903	1.89	0.34	0.48	1.76	0.44	919.99	204.07	204.61	919.45	-19.69
1	67	904	2.26	0.18	0.41	2.03	0.65	1014.69	178.34	178.43	1014.59	-9.00
1	67	905	2.55	0.14	0.41	2.27	0.77	1075.10	167.79	167.80	1075.10	2.61
1	67	906	2.78	0.13	0.44	2.47	0.85	1114.15	167.53	167.56	1114.12	-5.46
1	67	907	2.98	0.19	0.56	2.62	0.94	1132.97	180.55	180.56	1132.96	3.15
1	67	908	3.12	0.25	0.74	2.63	1.08	1121.68	204.59	204.83	1121.43	15.08
1	67	909	9.66	-10.29	-8.85	8.22	5.16	1128.17	-1058.84	-721.27	790.60	790.13
1	67	910	5.10	-4.42	2.30	-1.61	4.34	626.93	-1469.78	-952.88	110.03	903.67
1	67	911	13.61	-29.61	-24.12	8.11	14.39	31.38	-519.88	-504.77	16.27	90.01
1	67	912	22.28	17.73	21.84	18.17	-1.35	169.81	-1958.95	-1958.63	169.49	26.06
1	67	913	19.55	-9.43	-9.20	19.33	-2.54	329.09	-2554.60	-2554.56	329.06	-10.26
1	67	914	19.60	-12.37	-10.30	17.53	-7.86	349.68	-2441.49	-2441.38	349.57	-17.63
1	67	915	9.86	-1.24	6.36	2.26	-5.16	315.90	-1122.62	-1121.94	315.22	31.26
1	67	916	8.52	-16.61	-12.98	4.89	-8.84	48.65	-324.24	-323.90	48.30	11.33
1	67	917	4.88	-7.30	1.38	-3.79	5.51	328.46	-298.31	92.76	-62.62	-303.60
1	67	918	4.84	-3.87	-1.28	2.25	-3.99	1046.37	-111.59	918.49	16.29	-362.95
1	67	919	-0.86	-6.67	-6.66	-0.87	-0.29	1308.32	-35.08	1266.84	6.40	-232.38
1	67	920	-0.35	-6.42	-6.42	-0.36	0.10	1406.29	-0.94	1397.36	7.99	-111.74
1	67	921	-0.29	-5.92	-5.92	-0.29	0.10	1403.53	5.49	1403.38	5.65	-14.86
1	67	922	-0.25	-5.54	-5.54	-0.25	8.45e-02	1326.26	-10.86	1309.80	5.61	147.46
1	67	923	-0.24	-5.21	-5.20	-0.24	0.19	1156.25	-52.00	1096.64	7.61	261.67
1	67	924	-0.14	-4.94	-4.87	-0.20	0.56	875.76	-152.01	708.37	15.38	379.50
1	67	925	1.07	-2.36	-0.27	-1.02	1.68	524.22	-477.31	44.83	2.09	500.31
1	67	926	29.28	-39.09	11.78	-21.60	-29.83	-543.20	-3173.41	-3165.26	-551.35	-146.19
1	67	927	11.48	3.48	3.68	11.28	1.26	-110.28	-269.42	-233.76	-145.94	66.36
1	67	928	31.40	-51.57	16.65	-36.83	31.72	-730.39	-2837.13	-2824.54	-742.98	162.34
1	67	929	20.97	3.08	13.05	11.00	-8.88	486.20	-982.67	-658.52	162.05	-609.15
1	67	930	0.75	-2.79	-1.40	-0.64	-1.73	687.46	-311.33	355.37	20.76	-470.54
1	67	931	-0.23	-5.85	-5.83	-0.24	-0.31	912.84	-108.01	787.39	17.43	-335.15
1	67	932	-0.27	-6.02	-6.02	-0.27	-4.89e-02	1107.07	-33.26	1066.11	7.70	-212.21
1	67	933	-0.22	-6.27	-6.27	-0.22	-1.21e-02	1185.38	-3.76	1177.95	3.67	-93.70
1	67	934	-0.20	-6.44	-6.44	-0.20	-2.41e-03	1170.44	-0.79	1167.82	1.83	55.33
1	67	935	-0.21	-6.35	-6.35	-0.21	9.14e-02	1062.39	-18.94	1041.99	1.46	147.12
1	67	936	-0.21	-6.27	-6.25	-0.23	0.35	836.61	-73.87	758.19	4.55	255.45
1	67	937	-0.16	-2.44	-1.57	-1.03	1.11	515.73	-259.25	265.60	-9.12	362.32
1	67	938	9.23	-1.44	6.91	0.89	4.40	226.40	-875.29	-694.59	45.71	407.94
1	67	939	21.97	-24.52	8.39	-10.93	-21.14	-344.26	-2290.97	-2288.76	-346.46	-65.46
1	67	940	24.03	-32.43	13.57	-21.97	21.94	-513.14	-1978.50	-1969.90	-521.75	111.96
1	67	941	15.12	1.54	9.22	7.44	-6.73	379.98	-508.86	-225.73	96.84	-414.12
1	67	942	-0.38	-6.88	-6.62	-0.63	-1.26	609.29	-135.86	468.01	5.42	-292.09
1	67	943	-0.25	-7.82	-7.81	-0.26	-0.25	864.55	-29.61	830.98	3.96	-169.97
1	67	944	-0.27	-8.20	-8.20	-0.27	-4.94e-02	960.18	-6.58	956.25	-2.64	-61.55
1	67	945	-0.14	-8.16	-8.16	-0.15	0.21	892.74	-21.76	875.84	-4.87	123.15
1	67	946	0.49	-3.23	-2.78	3.93e-02	1.22	728.33	-69.43	661.65	-2.74	220.80
1	67	947	13.82	3.18	8.61	8.38	5.32	413.59	-300.37	55.14	58.08	356.98
1	67	948	12.32	-46.35	3.89	-37.91	-20.59	-583.23	-1231.84	-1229.81	-585.26	-36.25
1	67	949	-0.32	-5.58	-5.57	-0.33	0.21	524.34	-47.84	509.16	-32.65	91.98
1	67	950	29.45	-29.20	21.96	-21.71	19.58	-468.29	-1702.91	-1702.89	-468.31	4.82
1	67	951	20.61	2.81	15.76	7.67	-7.93	455.34	-470.86	-88.16	72.64	-456.07
1	67	952	0.84	-2.38	-1.10	-0.44	-1.57	724.47	-147.25	579.22	-1.99	-324.84
1	67	953	-0.23	-8.02	-8.00	-0.25	-0.35	884.45	-58.38	829.13	-3.05	-221.59
1	67	954	-0.22	-8.41	-8.41	-0.23	-8.85e-02	1039.35	-20.48	1025.35	-6.47	-121.03
1	67	955	-0.18	-8.63	-8.63	-0.18	-4.75e-02	1094.64	-8.68	1093.83	-7.87	-30.03
1	67	956	-0.19	-8.78	-8.78	-0.19	-3.20e-02	1059.22	-18.47	1049.36	-8.61	102.61
1	67	957	-0.14	-8.77	-8.77	-0.15	0.15	932.11	-49.08	892.14	-9.11	193.95
1	67	958	6.16e-02	-8.38	-8.24	-7.46e-02	1.06	682.98	-128.21	562.59	-7.81	288.39
1	67	959	13.13	2.37	7.78	7.71	5.38	468.20	-363.35	57.80	47.05	415.74
1	67	960	12.99	-42.84	5.13	-34.98	-19.42	-557.86	-1199.53	-1198.38	-559.02	27.16
1	67	961	-3.29	-13.13	-8.15	-8.27	-4.92	44.92	-110.86	17.89	-83.84	58.99
1	67	962	26.59	-26.84	19.72	-19.97	17.88	-448.57	-1588.50	-1582.89	-454.19	79.81
1	67	963	18.44	2.95	14.25	7.14	-6.88	356.33	-334.53	-41.50	63.30	-341.43
1	67	964	0.87	-2.32	-1.16	-0.29	-1.53	652.48	-78.02	581.86	-7.39	-215.88
1	67	965	-0.24	-7.27	-7.26	-0.26	-0.32	778.20	-26.15	762.92	-10.87	-109.81
1	67	966	-0.31	-7.47	-7.47	-0.31	1.75e-02	799.08	-20.82	794.21	-15.94	63.04
1	67	967	-0.64	-7.22	-7.21	-0.65	0.29	593.56	-53.99	562.58	-23.02	138.20
1	67	968	1.52	-5.02	-4.45	0.95	1.85	192.29	-222.45	-18.46	-11.69	207.34

1	67	969	7.19	-23.61	-3.41	-13.02	-14.63	-265.38	-1171.23	-1158.77	-277.84	-105.52
1	67	970	17.37	0.70	14.93	3.14	5.89	-152.74	-1172.57	-1172.01	-153.30	23.86
1	67	971	8.32	-1.12	5.34	1.86	-4.39	199.89	-205.86	-7.26	1.29	-202.83
1	67	972	-0.47	-3.51	-3.27	-0.71	-0.82	569.52	-57.87	531.92	-20.27	-148.91
1	67	973	-0.56	-5.66	-5.66	-0.56	-3.96e-02	659.81	-20.20	659.17	-19.56	20.90
1	67	974	13.41	-0.13	9.98	3.30	5.89	309.94	-1379.91	-1181.01	111.05	544.56
1	67	975	-6.66	-25.97	-15.92	-16.71	-9.65	560.80	-357.29	-314.52	518.04	-193.47
1	67	976	12.08	-28.37	11.26	-27.55	5.70	839.67	-721.37	-721.02	839.32	-23.46
1	67	977	4.35	-20.70	-0.57	-15.77	9.96	1061.74	-1624.19	-1623.53	1061.08	42.13
1	67	978	14.72	-57.07	14.66	-57.02	-2.01	1494.96	-1141.03	-1140.72	1494.65	-28.49
1	67	979	25.84	-76.68	25.65	-76.50	-4.30	2021.40	-1485.91	-1485.78	2021.27	-21.31
1	67	980	1.83	-19.74	4.91e-02	-17.95	5.94	1124.03	-1691.73	-1691.54	1123.84	22.99
1	67	981	-2.46	-13.59	-6.82	-9.22	5.43	329.30	-223.79	-215.25	320.76	68.20
1	67	982	16.44	9.28	9.39	16.34	0.85	252.73	-78.58	224.27	-50.13	92.83
1	67	983	-0.20	-4.30	-2.43	-2.07	2.04	792.88	-118.90	778.43	-104.45	113.88
1	67	984	-0.26	-2.73	-2.70	-0.29	-0.28	1000.76	-75.88	997.52	-72.64	58.95
1	67	985	5.94e-02	-2.00	-2.00	5.91e-02	2.76e-02	1092.53	-64.51	1092.25	-64.23	17.83
1	67	986	0.19	-1.90	-1.89	0.18	0.13	1094.73	-63.89	1093.16	-62.32	-42.54
1	67	987	0.17	-2.00	-1.98	0.15	0.19	1012.47	-66.68	1011.43	-65.63	-33.60
1	67	988	9.51e-02	-2.45	-2.42	6.16e-02	0.29	830.16	-78.72	825.13	-73.68	-67.45
1	67	989	-0.27	-2.67	-2.50	-0.44	0.60	528.51	-103.30	517.14	-91.93	-83.98
1	67	990	-0.90	-5.31	-4.87	-1.35	1.32	42.54	-132.50	14.11	-104.07	-64.56
1	67	991	-4.92	-7.81	-6.70	-6.04	-1.41	-226.03	-858.71	-850.13	-234.62	-73.20
1	67	992	33.71	13.06	15.89	30.88	7.10	215.61	-2216.52	-2198.67	197.76	207.58
1	67	993	33.99	8.20	20.25	21.95	-12.87	-246.23	-1972.51	-1929.24	-289.51	-269.86
1	67	994	3.71	-6.18	-2.38	-9.08e-02	4.81	-83.01	-559.60	-525.96	-116.65	122.07
1	67	995	-0.32	-4.63	-4.53	-0.42	-0.66	112.40	-111.46	97.59	-96.65	55.65
1	67	996	-0.21	-2.04	-2.00	-0.26	-0.28	619.35	-91.41	614.82	-86.88	56.58
1	67	997	8.52e-02	-2.13	-2.13	8.26e-02	-7.60e-02	843.66	-75.02	842.42	-73.78	33.75
1	67	998	0.11	-2.15	-2.15	0.11	1.59e-03	947.65	-67.12	947.65	-67.12	-0.76
1	67	999	0.10	-1.98	-1.98	9.99e-02	5.94e-02	952.90	-65.32	952.88	-65.30	-4.47
1	67	1000	4.41e-02	-1.86	-1.85	3.10e-02	0.16	861.07	-72.03	857.11	-68.07	-60.66
1	67	1001	-0.22	-1.54	-1.40	-0.36	0.40	655.57	-89.80	645.03	-79.26	-88.02
1	67	1002	-0.95	-4.41	-4.14	-1.21	0.91	247.66	-113.10	224.13	-89.57	-89.08
1	67	1003	-4.53	-7.29	-6.36	-5.46	-1.31	-165.18	-555.15	-526.98	-193.35	-100.94
1	67	1004	26.62	7.32	9.60	24.33	6.24	152.23	-1667.34	-1661.77	146.65	100.57
1	67	1005	26.40	7.35	16.04	17.71	-9.49	-199.25	-1425.33	-1398.25	-226.34	-180.21
1	67	1006	3.31	-5.00	-1.76	7.18e-02	4.05	-40.28	-244.94	-187.29	-97.93	92.06
1	67	1007	-0.32	-4.48	-4.45	-0.35	-0.34	347.09	-84.50	345.45	-82.86	26.56
1	67	1008	-0.13	-2.05	-2.04	-0.14	-0.15	727.31	-76.96	727.31	-76.96	1.63
1	67	1009	2.65e-02	-2.30	-2.30	2.65e-02	3.02e-03	839.41	-75.52	837.03	-73.14	-46.59
1	67	1010	-3.14e-02	-2.24	-2.23	-4.56e-02	0.18	784.30	-73.47	783.91	-73.08	-18.43
1	67	1011	0.10	-5.34	-5.31	7.89e-02	0.35	470.85	-86.43	463.44	-79.02	-63.84
1	67	1012	3.52	-6.08	-4.80	2.24	-3.27	100.33	-169.64	-31.37	-37.94	-134.95
1	67	1013	13.30	-17.63	5.49	-9.82	13.44	-520.82	-968.71	-899.04	-590.49	162.33
1	67	1014	6.25	1.62	1.64	6.23	-0.32	135.00	-70.74	130.62	-66.36	29.69
1	67	1015	24.37	-1.14	17.03	6.20	-11.55	-306.46	-1311.43	-1287.31	-330.58	-153.81
1	67	1016	3.61	-4.93	-1.55	0.23	4.17	58.03	-330.73	-213.70	-59.00	178.33
1	67	1017	-0.47	-3.73	-3.65	-0.56	-0.53	377.00	-92.67	351.45	-67.12	106.52
1	67	1018	-3.03e-02	-0.51	-0.29	-0.25	-0.24	804.91	-68.31	797.97	-61.36	77.57
1	67	1019	1.85e-02	-0.85	-0.85	1.56e-02	-5.04e-02	965.25	-56.36	964.18	-55.29	33.08
1	67	1020	5.60e-02	-0.97	-0.97	5.59e-02	1.17e-02	1029.68	-53.32	1029.20	-52.83	-22.92
1	67	1021	5.01e-02	-1.16	-1.15	4.55e-02	7.43e-02	996.01	-55.40	994.74	-54.12	-36.56
1	67	1022	-5.85e-03	-1.30	-1.27	-3.46e-02	0.19	864.77	-65.74	856.70	-57.67	-86.28
1	67	1023	0.23	-0.46	-0.25	1.99e-02	0.32	603.27	-88.88	581.00	-66.61	-122.16
1	67	1024	3.66	-6.36	-4.92	2.22	-3.51	162.72	-221.32	-26.45	-32.14	-192.00
1	67	1025	13.36	-17.31	5.92	-9.87	13.15	-521.93	-885.59	-850.37	-557.15	107.55
1	67	1026	23.01	-1.52	16.58	4.91	-10.79	-286.00	-1256.82	-1214.81	-328.02	-197.54
1	67	1027	3.68	-3.58	-0.39	0.50	3.60	20.27	-229.71	-155.29	-54.15	114.30
1	67	1028	-0.51	-4.17	-4.13	-0.55	-0.37	355.10	-74.98	351.06	-70.94	41.51
1	67	1029	-0.27	-1.89	-1.88	-0.28	-0.14	707.59	-67.95	707.59	-67.95	0.56
1	67	1030	-0.16	-2.34	-2.34	-0.17	8.10e-02	729.87	-68.08	729.43	-67.64	-18.69
1	67	1031	-0.23	-1.90	-1.87	-0.26	0.20	540.69	-73.07	538.94	-71.32	-32.69
1	67	1032	-0.51	-5.11	-4.56	-1.06	-1.50	47.32	-142.44	-0.26	-94.86	-82.25
1	67	1033	12.05	-6.77	1.46	3.82	9.34	-159.86	-995.95	-978.44	-177.37	119.72
1	67	1034	17.77	14.82	15.82	16.77	-1.39	27.79	-1046.27	-1044.99	26.51	-37.14
1	67	1035	2.92	-2.84	1.41	-1.33	2.53	9.63	-156.07	-36.93	-109.50	74.48
1	67	1036	-0.78	-3.13	-3.12	-0.78	-8.37e-02	413.17	-73.77	411.03	-71.63	32.22
1	67	1037	-0.31	-2.96	-2.96	-0.32	7.45e-02	576.64	-84.41	566.94	-74.72	79.46
1	67	1038	-1.87	-3.88	-3.83	-1.91	-0.30	446.86	-107.05	445.18	-105.37	30.40
1	67	1039	12.84	-3.36	2.29	7.18	-7.72	316.03	-506.72	156.37	-347.06	325.37
1	67	1040	4.60	-1.22	4.27	-0.89	1.35	114.66	-221.12	62.06	-168.52	-122.04
1	67	1041	7.31	-1.50	2.89e-02	5.78	3.33	166.30	-229.16	152.45	-215.32	72.68
1	67	1042	-1.00	-6.53	-5.62	-1.92	-2.05	443.86	-139.23	-99.48	404.11	146.96
1	67	1043	2.03	-0.76	-0.68	1.96	-0.45	871.39	-62.70	-33.61	842.30	162.26
1	67	1044	2.27	-9.53e-02	-8.79e-02	2.26	-0.13	1059.64	-33.68	-19.87	1045.83	122.10

1	67	1045	2.25	-8.43e-02	-7.51e-02	2.24	-0.15	1172.52	-19.28	-13.00	1166.24	86.30
1	67	1046	2.36	-8.87e-02	-8.28e-02	2.35	-0.12	1249.11	-9.34	-7.74	1247.51	44.86
1	67	1047	2.61	-9.69e-02	-9.38e-02	2.60	-9.15e-02	1312.67	-4.19	-4.08	1312.56	-12.06
1	67	1048	2.92	-0.13	-0.13	2.92	-5.08e-02	1369.89	-3.96	-0.94	1366.86	-64.41
1	67	1049	3.16	-0.22	-0.22	3.16	7.47e-02	1413.08	-8.46	3.26	1401.36	-128.53
1	67	1050	3.36	-0.78	-0.78	3.36	7.51e-02	1409.77	-26.11	2.17	1381.49	-199.52
1	67	1051	9.67	-1.50	-0.90	9.07	-2.52	1299.37	-70.70	-17.06	1245.73	-265.73
1	67	1052	29.74	10.74	18.43	22.06	-9.32	828.18	81.34	241.78	667.74	-306.73
1	67	1053	-4.25	-27.37	-20.47	-11.15	-10.58	41.11	-287.24	-204.81	-41.32	-142.38
1	67	1054	14.94	-5.42	-5.32	14.84	1.41	-171.36	-310.62	-302.72	-179.26	-32.22
1	67	1055	3.58	-6.01	-5.83	3.40	1.32	334.99	-167.20	274.04	-106.25	-163.99
1	67	1056	2.96	-7.57	-6.74	2.13	2.83	225.34	25.55	222.22	28.67	24.76
1	67	1057	10.98	1.28	6.76	5.50	-4.81	146.75	52.89	146.66	52.99	-3.03
1	67	1058	-0.46	-5.62	-4.68	-1.40	1.99	495.81	-103.57	-103.56	495.80	-3.11
1	67	1059	2.13	-0.41	-0.30	2.02	0.52	800.48	-38.42	-37.52	799.58	-27.45
1	67	1060	2.29	1.92e-02	2.40e-02	2.29	0.10	951.47	-27.69	-26.55	950.33	-33.34
1	67	1061	2.39	8.10e-02	8.85e-02	2.38	0.13	1042.67	-18.81	-18.35	1042.20	-22.11
1	67	1062	2.63	4.53e-02	6.07e-02	2.61	0.20	1100.79	-15.44	-15.35	1100.70	-9.94
1	67	1063	3.01	5.24e-02	6.36e-02	3.00	0.18	1143.04	-14.34	-14.17	1142.87	-14.03
1	67	1064	3.49	6.04e-02	6.18e-02	3.49	6.94e-02	1171.64	-15.06	-15.04	1171.62	-5.60
1	67	1065	3.96	-3.08e-02	-2.96e-02	3.96	-6.70e-02	1178.77	-17.51	-17.50	1178.77	2.16
1	67	1066	4.31	-0.32	-0.31	4.30	-0.21	1144.17	-24.50	-24.21	1143.88	18.41
1	67	1067	6.62	-2.58	-2.51	6.55	0.81	1046.42	-63.70	-62.44	1045.16	37.40
1	67	1068	30.46	10.55	21.84	19.17	9.86	717.67	180.67	206.77	691.57	115.48
1	67	1069	0.78	-6.25	-3.89	-1.58	3.32	-63.95	-194.68	-192.29	-66.34	17.51
1	67	1070	35.32	34.69	35.08	34.92	-0.30	58.51	-2757.40	-2757.35	58.46	11.68
1	70	1	2.55	-3.10	2.15	-2.70	-1.45	-487.90	-1453.08	-1045.33	-895.65	476.75
1	70	3	1.45	-1.58	1.35	-1.47	0.55	-464.33	-1428.33	-1035.76	-856.90	-473.63
1	70	9	-0.13	-10.94	-2.40	-8.68	-4.40	-1331.14	-2479.83	-2477.42	-1333.55	52.55
1	70	11	6.81	-8.72	-2.85	0.95	-7.53	-1735.61	-3745.43	-3739.39	-1741.65	109.98
1	70	12	7.47	-8.55	5.85	-6.94	-4.83	-1872.12	-3439.91	-3439.67	-1872.36	-19.50
1	70	13	9.84	-6.70	8.57	-5.43	4.41	-1817.47	-3517.76	-3501.49	-1833.74	-165.52
1	70	15	9.58	-6.86	8.45	-5.73	4.16	-1804.29	-3400.90	-3400.28	-1804.92	31.54
1	70	17	3.93	-5.41	-2.03	0.55	4.48	-1259.35	-2442.76	-2442.26	-1259.85	-24.30
1	70	21	0.37	-17.31	-3.21	-13.73	7.10	-1812.42	-3787.42	-3774.83	-1825.02	-157.21
1	70	22	3.94e-02	-20.37	-3.61	-16.72	7.82	-2376.21	-5063.75	-5059.28	-2380.67	-109.50
1	70	23	7.52	-8.77	5.72	-6.97	-5.11	-1881.00	-3561.39	-3540.96	-1901.42	184.13
1	70	24	2.90	0.59	1.02	2.46	0.90	1134.52	316.34	319.18	1131.69	48.06
1	70	25	0.96	-1.16	0.59	-0.80	0.80	-404.84	-823.42	-667.07	-561.19	-202.48
1	70	27	0.25	-0.66	0.21	-0.62	-0.19	-389.48	-800.92	-654.08	-536.32	197.11
1	70	29	8.34	-8.30	3.93	-3.89	-7.35	759.17	-316.79	405.94	36.44	505.26
1	70	30	8.15	-3.40	-1.99	6.74	-3.78	1050.08	-328.04	309.82	412.22	687.15
1	70	31	14.59	-11.57	13.98	-10.97	-3.93	693.56	-533.15	-325.71	486.12	459.82
1	70	32	6.70	1.51	2.54	5.67	2.07	1248.72	22.85	380.90	890.68	557.42
1	70	33	8.11	5.28	6.32	7.07	1.36	1223.21	-141.82	98.28	983.11	519.71
1	70	34	5.77	0.25	0.88	5.14	1.74	1298.24	198.40	380.65	1115.99	408.94
1	70	35	6.49	0.26	0.36	6.39	0.76	1378.65	-19.52	143.42	1215.72	448.62
1	70	36	4.80	-3.39e-03	0.29	4.51	1.14	1319.70	275.78	362.65	1232.83	288.35
1	70	37	5.19	-7.38e-02	-3.83e-02	5.16	0.43	1421.93	68.28	152.58	1337.62	327.13
1	70	38	4.11	0.12	0.24	3.99	0.67	1317.86	309.68	341.62	1285.92	176.59
1	70	39	4.54	-2.34e-02	-4.30e-03	4.52	0.29	1420.51	117.08	149.38	1388.22	202.61
1	70	40	3.76	0.23	0.26	3.73	0.28	1310.63	322.46	327.59	1305.50	71.02
1	70	41	4.22	2.11e-02	2.61e-02	4.22	0.14	1410.15	139.93	145.20	1404.88	81.61
1	70	42	3.71	0.25	0.26	3.71	-9.11e-02	1308.82	324.57	325.59	1307.80	-31.73
1	70	43	4.17	2.60e-02	2.60e-02	4.17	-1.83e-02	1407.78	143.57	144.67	1406.68	-37.20
1	70	44	3.99	0.17	0.23	3.92	-0.48	1314.28	317.80	336.64	1295.45	-135.70
1	70	45	4.36	-1.07e-02	-4.50e-03	4.36	-0.17	1416.21	129.10	148.64	1396.67	-157.37
1	70	46	4.62	7.08e-02	0.28	4.40	-0.96	1319.84	295.94	358.07	1257.71	-244.44
1	70	47	4.90	-6.31e-02	-4.60e-02	4.88	-0.29	1424.65	92.43	154.90	1362.17	-281.65
1	70	48	5.63	0.30	0.87	5.06	-1.65	1310.72	243.25	383.31	1170.66	-360.41
1	70	49	6.08	0.21	0.26	6.02	-0.58	1406.18	24.89	157.84	1273.23	-407.39
1	70	50	7.14	1.24	2.70	5.69	-2.54	1281.40	120.35	400.02	1001.73	-496.48
1	70	51	7.98	4.74	5.54	7.18	-1.40	1316.48	-63.49	152.32	1100.67	-501.24
1	70	52	6.19	-3.51	0.74	1.93	4.81	1115.84	-203.22	316.67	595.96	-644.58
1	70	53	13.85	-4.47	12.73	-3.36	4.38	964.30	-306.70	-55.37	712.97	-506.23
1	70	54	7.43	-8.38	-1.81	0.86	7.79	739.78	-335.62	372.64	31.52	-509.94
1	70	55	1.41	-5.11	-4.98	1.28	-0.92	1116.41	-113.42	813.28	189.71	530.01
1	70	56	1.76	1.02	1.49	1.29	0.35	1175.53	86.36	797.05	464.84	518.64
1	70	57	4.65	8.13e-03	1.48	3.18	2.16	1204.86	286.59	678.34	813.11	454.16
1	70	58	4.35	-2.85e-02	1.16	3.17	1.95	1214.31	406.94	600.57	1020.68	344.72
1	70	59	3.79	0.14	0.82	3.11	1.42	1222.90	451.65	537.00	1137.55	241.95
1	70	60	3.28	0.41	0.69	3.00	0.86	1224.56	460.87	490.35	1195.08	147.13
1	70	61	2.97	0.62	0.67	2.92	0.34	1222.87	459.22	463.82	1218.27	59.09
1	70	62	2.94	0.66	0.67	2.93	-0.15	1222.15	458.85	459.73	1221.28	-25.78
1	70	63	3.20	0.51	0.69	3.02	-0.67	1223.34	461.71	478.51	1206.54	-111.84
1	70	64	3.68	0.29	0.83	3.15	-1.24	1223.32	460.02	518.49	1164.85	-203.00

1	70	65	4.24	0.19	1.23	3.19	-1.77	1217.69	434.05	575.66	1076.09	-301.52
1	70	66	3.98	0.61	1.65	2.94	-1.56	1206.58	344.53	642.95	908.15	-410.12
1	70	67	4.75	0.20	1.03	3.92	-1.76	1197.39	168.79	748.29	617.88	-510.15
1	70	68	1.58	-3.51	-3.40	1.46	0.75	1126.26	-104.12	822.82	199.32	-530.35
1	70	69	-8.66e-02	-2.86	-2.86	-8.98e-02	-9.37e-02	1300.60	99.64	1154.67	245.57	392.38
1	70	70	0.49	-1.10	-1.09	0.48	0.12	1219.55	298.63	1049.11	469.06	357.65
1	70	71	1.72	-0.23	0.91	0.58	0.96	1139.57	502.35	892.60	749.32	310.45
1	70	72	2.66	-0.10	1.31	1.25	1.38	1111.10	597.41	763.59	944.92	240.31
1	70	73	2.67	0.26	1.24	1.69	1.19	1122.95	601.79	663.84	1060.91	168.78
1	70	74	2.40	0.68	1.17	1.91	0.77	1141.33	575.11	594.22	1122.21	102.27
1	70	75	2.10	1.04	1.14	2.00	0.31	1151.65	553.09	555.92	1148.82	41.05
1	70	76	2.06	1.11	1.14	2.03	-0.17	1153.05	549.20	549.71	1152.54	-17.54
1	70	77	2.34	0.83	1.18	1.99	-0.64	1145.92	565.21	575.66	1135.47	-77.19
1	70	78	2.65	0.45	1.27	1.83	-1.06	1129.88	592.83	632.98	1089.72	-141.26
1	70	79	2.73	0.15	1.40	1.47	-1.29	1112.16	606.20	720.25	998.10	-211.42
1	70	80	2.19	-8.72e-03	1.16	1.03	-1.10	1121.01	551.90	837.34	835.58	-284.55
1	70	81	0.90	-0.40	-0.23	0.73	-0.44	1180.83	385.38	982.86	583.35	-343.92
1	70	82	9.75e-02	-2.70	-2.70	9.53e-02	7.94e-02	1299.74	98.44	1152.78	245.40	-393.63
1	70	83	-0.17	-3.18	-3.16	-0.19	-0.24	1334.09	229.94	1304.54	259.49	178.21
1	70	84	-0.21	-1.63	-1.63	-0.21	-6.71e-02	1219.18	430.14	1184.86	464.45	160.92
1	70	85	0.50	-0.36	0.24	-0.10	0.39	1064.03	661.12	1007.06	718.09	140.39
1	70	86	1.55	-0.12	1.14	0.30	0.72	986.90	764.54	852.75	898.70	108.78
1	70	87	1.90	0.28	1.44	0.74	0.73	1031.66	712.44	731.28	1012.82	75.23
1	70	88	1.85	0.73	1.52	1.07	0.51	1081.45	642.04	646.65	1076.85	44.73
1	70	89	1.63	1.15	1.53	1.25	0.20	1106.77	599.66	600.29	1106.14	17.79
1	70	90	1.59	1.23	1.53	1.29	-0.14	1110.49	592.50	592.60	1110.39	-7.37
1	70	91	1.84	0.87	1.53	1.18	-0.45	1093.66	621.22	623.58	1091.29	-33.34
1	70	92	1.97	0.46	1.51	0.92	-0.69	1053.02	682.10	692.93	1042.19	-62.46
1	70	93	1.77	9.26e-02	1.32	0.53	-0.74	995.86	753.28	799.77	949.36	-95.48
1	70	94	0.98	-0.16	0.68	0.14	-0.50	1017.01	720.51	941.56	795.96	-129.14
1	70	95	-0.11	-0.77	-0.76	-0.12	-7.22e-02	1152.67	527.96	1111.27	569.35	-155.39
1	70	96	-0.14	-3.13	-3.10	-0.16	0.26	1333.00	226.91	1303.12	256.79	-179.33
1	70	97	-0.18	-3.25	-3.25	-0.19	-0.17	1333.57	259.65	1331.40	261.82	-48.23
1	70	98	-0.31	-1.90	-1.89	-0.32	-0.12	1210.83	459.92	1208.42	462.33	-42.50
1	70	99	-8.28e-02	-0.31	-9.79e-02	-0.30	5.66e-02	1029.33	702.51	1024.60	707.23	-39.02
1	70	100	1.03	-9.35e-02	0.98	-4.62e-02	0.23	909.61	835.93	862.38	883.15	-35.35
1	70	101	1.56	0.26	1.50	0.31	0.27	1001.47	730.11	733.28	998.30	-29.14
1	70	102	1.74	0.61	1.70	0.64	0.19	1066.11	642.40	643.33	1065.18	-19.83
1	70	103	1.76	0.84	1.76	0.84	5.96e-02	1096.72	594.11	594.25	1096.58	-8.39
1	70	104	1.77	0.88	1.76	0.88	-8.71e-02	1101.20	586.02	586.05	1101.17	3.90
1	70	105	1.78	0.71	1.73	0.76	-0.22	1081.02	618.14	618.68	1080.48	15.77
1	70	106	1.67	0.42	1.59	0.49	-0.29	1030.38	690.30	692.29	1028.40	25.90
1	70	107	1.27	9.21e-02	1.21	0.15	-0.26	941.33	798.04	806.12	933.26	33.04
1	70	108	0.39	-0.16	0.38	-0.14	-9.49e-02	963.74	774.53	956.14	782.13	37.15
1	70	109	-0.26	-1.10	-1.08	-0.28	0.13	1135.68	561.27	1132.84	564.12	40.32
1	70	110	-0.17	-3.20	-3.18	-0.19	0.23	1332.47	256.81	1330.38	258.90	47.37
1	70	111	-0.15	-3.16	-3.15	-0.15	-0.11	1321.92	189.12	1250.18	260.86	-275.91
1	70	112	-0.22	-1.91	-1.89	-0.24	-0.16	1210.13	381.42	1128.85	462.69	-246.47
1	70	113	6.11e-03	-0.39	-0.18	-0.20	-0.20	1079.84	581.68	948.21	713.31	-219.65
1	70	114	0.96	-1.61e-02	0.93	1.88e-02	-0.18	1032.96	654.94	790.45	897.45	-181.28
1	70	115	1.54	0.32	1.51	0.35	-0.16	1064.74	621.74	667.22	1019.26	-134.46
1	70	116	1.76	0.65	1.75	0.67	-0.14	1103.51	569.51	583.21	1089.81	-84.43
1	70	117	1.82	0.87	1.81	0.88	-8.86e-02	1124.66	536.10	538.12	1122.63	-34.44
1	70	118	1.81	0.91	1.81	0.92	-2.99e-02	1127.77	530.20	530.57	1127.39	15.01
1	70	119	1.76	0.78	1.76	0.78	2.81e-02	1113.35	552.76	560.33	1105.77	64.73
1	70	120	1.59	0.51	1.58	0.52	8.20e-02	1080.09	599.32	628.56	1050.86	114.89
1	70	121	1.15	0.19	1.13	0.21	0.15	1038.33	648.10	736.39	950.04	163.27
1	70	122	0.37	-0.17	0.24	-4.34e-02	0.23	1046.24	626.20	881.48	790.96	205.09
1	70	123	-9.37e-02	-1.24	-1.16	-0.17	0.29	1150.51	469.92	1054.62	565.81	236.78
1	70	124	-0.13	-3.07	-3.06	-0.14	0.21	1320.73	186.30	1249.42	257.61	275.34
1	70	125	-3.01e-02	-2.90	-2.88	-4.46e-02	-0.20	1287.28	14.54	1047.27	254.55	-497.86
1	70	126	8.56e-02	-1.77	-1.70	2.27e-02	-0.34	1202.61	194.08	934.22	462.46	-445.69
1	70	127	0.56	-0.45	-7.92e-02	0.19	-0.49	1147.05	356.89	768.65	735.29	-394.73
1	70	128	1.37	6.27e-02	0.99	0.45	-0.60	1141.16	433.03	631.58	942.61	-318.08
1	70	129	1.85	0.46	1.50	0.81	-0.61	1159.73	449.07	532.51	1076.28	-228.78
1	70	130	1.94	0.87	1.65	1.16	-0.48	1177.37	441.88	469.59	1149.66	-140.04
1	70	131	1.80	1.24	1.66	1.38	-0.24	1186.26	433.02	437.26	1182.01	-56.38
1	70	132	1.66	1.41	1.66	1.41	3.68e-02	1187.36	431.05	431.83	1186.58	24.24
1	70	133	1.80	1.10	1.64	1.26	0.29	1181.13	437.21	452.74	1165.61	106.35
1	70	134	1.78	0.70	1.51	0.97	0.47	1165.99	446.31	502.65	1109.64	193.33
1	70	135	1.46	0.29	1.10	0.65	0.54	1144.80	442.90	586.92	1000.79	283.45
1	70	136	0.88	-0.26	0.23	0.38	0.56	1136.58	395.38	709.67	822.29	366.30
1	70	137	0.38	-1.28	-1.07	0.17	0.55	1171.89	265.81	865.78	571.91	428.55
1	70	138	2.65e-02	-2.79	-2.74	-1.76e-02	0.35	1286.08	11.43	1046.81	250.70	497.73
1	70	139	0.42	-2.57	-2.39	0.24	-0.72	1189.91	-279.84	679.32	230.75	-699.81
1	70	140	1.01	-1.70	-1.48	0.78	-0.75	1154.59	-112.49	588.85	453.26	-629.90

1	70	141	1.51	-0.41	0.12	0.97	-0.86	1192.61	45.79	462.80	775.61	-551.67
1	70	142	2.32	0.12	1.16	1.28	-1.10	1235.70	165.92	378.13	1023.49	-426.59
1	70	143	2.73	0.46	1.43	1.76	-1.12	1261.33	241.15	334.13	1168.34	-293.62
1	70	144	2.68	0.84	1.38	2.14	-0.83	1270.33	281.88	313.62	1238.59	-174.27
1	70	145	2.46	1.18	1.30	2.34	-0.38	1271.20	299.92	304.87	1266.25	-69.15
1	70	146	2.36	1.28	1.29	2.35	0.12	1270.85	302.39	303.28	1269.96	29.34
1	70	147	2.48	1.05	1.34	2.19	0.58	1270.55	290.37	308.19	1252.73	130.95
1	70	148	2.56	0.69	1.38	1.87	0.90	1265.13	258.98	322.48	1201.64	244.66
1	70	149	2.31	0.31	1.14	1.47	0.99	1245.65	198.24	355.33	1088.56	373.98
1	70	150	1.80	-0.30	0.27	1.22	0.94	1206.93	97.10	423.34	880.69	505.60
1	70	151	1.38	-1.42	-0.99	0.94	1.02	1162.34	-49.48	535.38	577.48	605.54
1	70	152	0.59	-2.48	-2.20	0.31	0.88	1189.42	-282.88	679.35	227.19	700.57
1	70	153	2.04	-3.48	-2.07	0.62	-2.41	946.68	-740.27	58.59	147.81	-842.30
1	70	154	3.41	-1.91	-1.67	3.17	-1.10	1024.36	-573.86	28.53	421.98	-774.52
1	70	155	2.81	-0.15	0.43	2.23	-1.17	1208.95	-361.46	-1.94	849.43	-659.80
1	70	156	3.95	0.18	1.47	2.66	-1.79	1318.55	-134.72	35.12	1148.71	-466.88
1	70	157	4.27	0.25	1.19	3.33	-1.70	1359.07	23.13	94.90	1287.30	-301.20
1	70	158	4.00	0.48	0.89	3.59	-1.13	1366.40	115.79	140.07	1342.12	-172.56
1	70	159	3.72	0.67	0.74	3.64	-0.47	1363.28	160.41	164.21	1359.48	-67.47
1	70	160	3.64	0.72	0.73	3.63	0.19	1362.16	167.24	167.91	1361.50	28.16
1	70	161	3.78	0.61	0.85	3.55	0.83	1365.17	137.78	151.26	1351.69	127.93
1	70	162	3.98	0.42	1.10	3.31	1.40	1363.90	64.60	113.00	1315.49	246.07
1	70	163	3.72	0.33	1.31	2.73	1.54	1338.95	-68.17	55.24	1215.55	398.02
1	70	164	3.21	-0.25	0.33	2.63	1.30	1257.87	-270.96	4.62	982.29	587.68
1	70	165	3.34	-1.93	-1.36	2.77	1.63	1092.61	-502.49	9.67	580.45	744.74
1	70	166	2.05	-2.79	-1.50	0.76	2.14	952.78	-738.70	60.73	153.36	844.47
1	70	167	-0.51	-10.96	-8.93	-2.54	-4.13	290.36	-1479.04	-1059.40	-129.28	-752.60
1	70	168	8.76	0.97	1.02	8.72	-0.57	726.84	-1166.39	-753.25	313.70	-781.97
1	70	169	4.98	0.40	0.68	4.70	-1.10	1233.80	-848.67	-647.73	1032.86	-614.88
1	70	170	7.32	-0.14	1.37	5.81	-2.99	1388.71	-408.25	-328.45	1308.91	-370.18
1	70	171	6.37	-0.17	0.50	5.70	-1.98	1438.51	-160.25	-127.77	1406.03	-225.55
1	70	172	5.53	-5.03e-02	0.18	5.30	-1.12	1446.22	-21.51	-10.63	1435.35	-125.85
1	70	173	5.05	5.68e-02	9.33e-02	5.02	-0.43	1441.41	44.91	46.61	1439.70	-48.73
1	70	174	4.97	8.57e-02	9.36e-02	4.96	0.20	1439.90	55.43	55.72	1439.61	19.94
1	70	175	5.27	2.77e-02	0.17	5.12	0.86	1444.40	12.54	18.47	1438.47	91.96
1	70	176	5.92	-6.39e-02	0.44	5.42	1.66	1444.70	-94.89	-73.54	1423.34	180.07
1	70	177	6.64	-2.67e-02	1.17	5.44	2.56	1417.55	-297.45	-242.19	1362.29	302.84
1	70	178	3.97	0.85	0.96	3.86	0.57	1304.05	-670.02	-533.68	1167.71	500.56
1	70	179	4.38	0.76	1.72	3.42	1.60	1012.64	219.02	265.58	966.08	186.51
1	70	180	20.85	-4.17	18.75	-2.07	6.93	-1282.35	-2565.40	-2549.57	-1298.18	-141.60
1	70	181	11.98	-11.48	6.68	-6.18	9.81	759.43	-2196.37	-1955.67	518.72	-808.42
1	70	182	15.09	-6.38	1.70	7.02	-10.40	1249.58	-1120.95	-1071.62	1200.25	-338.38
1	70	183	10.71	-1.69	-1.00	10.02	-2.84	1423.03	-548.16	-538.96	1413.83	-134.33
1	70	184	8.08	-0.67	-0.50	7.91	-1.20	1479.80	-250.96	-247.54	1476.39	-76.80
1	70	185	6.60	-0.45	-0.41	6.56	-0.55	1488.70	-90.39	-89.24	1487.56	-42.45
1	70	186	5.93	-0.37	-0.36	5.92	-0.19	1483.69	-14.26	-14.08	1483.51	-16.47
1	70	187	5.83	-0.35	-0.35	5.83	9.35e-02	1482.04	-1.94	-1.91	1482.01	6.60
1	70	188	6.30	-0.41	-0.38	6.28	0.43	1486.68	-50.20	-49.58	1486.07	30.70
1	70	189	7.51	-0.58	-0.46	7.39	1.00	1486.48	-171.91	-169.71	1484.29	60.29
1	70	190	9.79	-1.42	-0.88	9.26	2.39	1454.65	-404.60	-398.52	1448.57	106.12
1	70	191	13.70	-5.14	0.78	7.78	8.75	1341.54	-842.55	-809.72	1308.71	265.77
1	70	192	12.35	-7.88	11.88	-7.41	-3.05	1083.89	-1666.70	-1561.58	978.77	527.34
1	70	193	17.60	-7.39	9.99	0.22	-11.50	-1101.63	-2647.78	-2611.81	-1137.60	233.06
1	70	194	71.29	-17.95	71.28	-17.94	0.85	915.21	-1888.46	-1884.43	911.18	106.29
1	70	195	29.39	0.47	0.72	29.14	-2.69	1458.26	-1011.72	-1011.49	1458.03	-23.88
1	70	196	11.13	1.31	1.31	11.13	-0.14	1428.96	-513.94	-513.94	1428.96	-2.55
1	70	197	8.04	-0.35	-0.35	8.03	-0.15	1481.61	-248.70	-248.69	1481.59	-5.22
1	70	198	6.68	-0.49	-0.49	6.68	-0.12	1492.03	-93.23	-93.22	1492.02	-4.14
1	70	199	6.03	-0.43	-0.43	6.03	-4.87e-02	1487.47	-17.98	-17.98	1487.47	-1.86
1	70	200	5.94	-0.42	-0.42	5.94	2.02e-02	1485.85	-5.69	-5.69	1485.85	0.68
1	70	201	6.40	-0.46	-0.46	6.40	9.09e-02	1490.15	-53.14	-53.13	1490.15	3.03
1	70	202	7.53	-0.36	-0.36	7.53	0.15	1488.86	-170.39	-170.38	1488.85	4.43
1	70	203	10.15	0.92	0.93	10.15	0.24	1461.11	-377.93	-377.93	1461.10	3.34
1	70	204	24.69	0.80	1.11	24.37	2.73	1499.43	-775.44	-775.20	1499.19	23.20
1	70	205	53.10	7.48	53.06	7.52	1.25	1172.75	-1082.90	-1082.15	1171.99	-41.31
1	70	206	7.08	-9.87	-3.70	0.91	-8.15	-2263.46	-5017.40	-5016.22	-2264.64	56.94
1	70	207	26.22	-11.00	26.16	-10.94	1.52	-887.89	-1970.20	-1933.24	-924.85	196.56
1	70	208	11.06	-7.17	5.01	-1.12	-8.58	673.87	-1974.06	-1683.53	383.33	827.58
1	70	209	15.40	-4.10	1.63	9.67	8.89	1259.00	-1042.39	-974.51	1191.12	389.37
1	70	210	10.95	-1.33	-0.94	10.57	2.14	1418.91	-515.93	-501.14	1404.12	168.52
1	70	211	8.20	-0.64	-0.53	8.09	0.95	1476.24	-236.98	-231.61	1470.87	95.78
1	70	212	6.67	-0.47	-0.44	6.64	0.45	1486.21	-83.44	-81.74	1484.51	51.54
1	70	213	5.98	-0.39	-0.39	5.98	0.15	1481.87	-10.14	-9.88	1481.61	19.57
1	70	214	5.89	-0.38	-0.38	5.89	-8.34e-02	1480.32	1.80	1.85	1480.28	-7.97
1	70	215	6.38	-0.43	-0.41	6.36	-0.36	1484.47	-44.53	-43.62	1483.56	-37.22
1	70	216	7.63	-0.57	-0.49	7.55	-0.81	1483.30	-160.75	-157.33	1479.88	-74.93

1	70	217	10.06	-1.15	-0.82	9.73	-1.89	1451.03	-379.19	-369.37	1441.21	-133.69
1	70	218	14.96	-4.11	0.54	10.31	-8.19	1348.37	-782.79	-737.30	1302.89	-307.99
1	70	219	12.75	-5.44	11.45	-4.14	4.68	1044.58	-1549.44	-1392.01	887.15	-619.34
1	70	220	17.26	-4.06	16.69	-3.49	3.42	-710.56	-2039.16	-1983.98	-765.73	-265.06
1	70	221	-3.82	-10.47	-10.21	-4.08	1.28	369.10	-1315.10	-864.04	-81.96	745.80
1	70	222	5.50	2.58	2.87	5.21	-0.86	774.88	-970.65	-579.01	383.24	728.18
1	70	223	7.11	0.31	1.90	5.52	2.88	1239.16	-710.53	-498.62	1027.25	606.84
1	70	224	7.90	-0.25	1.37	6.28	3.25	1376.82	-338.47	-253.75	1292.09	371.69
1	70	225	6.61	-0.22	0.43	5.95	2.02	1428.48	-124.11	-89.98	1394.35	227.66
1	70	226	5.66	-9.03e-02	0.13	5.44	1.10	1439.42	-2.66	8.57	1428.19	126.73
1	70	227	5.15	1.53e-02	4.80e-02	5.12	0.41	1436.78	55.70	57.43	1435.04	48.92
1	70	228	5.07	3.70e-02	4.53e-02	5.06	-0.21	1435.62	65.03	65.32	1435.33	-20.00
1	70	229	5.41	-2.93e-02	0.11	5.27	-0.86	1438.56	27.52	33.61	1432.48	-92.46
1	70	230	6.17	-0.14	0.36	5.67	-1.70	1435.92	-66.42	-44.15	1413.64	-181.58
1	70	231	7.18	-0.16	1.10	5.92	-2.77	1406.17	-242.48	-184.12	1347.82	-304.64
1	70	232	5.34	0.87	1.68	4.53	-1.73	1304.25	-565.48	-419.73	1158.51	-501.26
1	70	233	9.69	-1.80	-0.59	8.49	-3.52	994.94	-919.01	-561.50	637.43	-745.95
1	70	234	-3.29	-6.82	-3.46	-6.65	0.75	399.87	-1266.54	-811.94	-54.74	-742.22
1	70	235	0.88	-3.33	-2.68	0.23	1.53	967.60	-609.73	184.95	172.92	788.64
1	70	236	2.24	-1.46	-1.44	2.22	0.22	1028.96	-440.27	138.55	450.14	717.91
1	70	237	2.69	0.21	1.19	1.72	1.21	1195.90	-252.22	84.57	859.11	611.79
1	70	238	4.31	0.13	1.80	2.64	2.05	1300.41	-63.71	93.30	1143.40	435.34
1	70	239	4.46	0.23	1.26	3.43	1.82	1345.85	61.54	126.85	1280.53	282.17
1	70	240	4.11	0.46	0.88	3.68	1.16	1359.55	132.93	154.66	1337.82	161.82
1	70	241	3.80	0.65	0.72	3.73	0.47	1360.62	166.58	169.94	1357.26	63.29
1	70	242	3.73	0.69	0.70	3.72	-0.21	1360.21	171.68	172.27	1359.63	-26.26
1	70	243	3.92	0.56	0.82	3.66	-0.89	1360.27	149.55	161.52	1348.31	-119.76
1	70	244	4.18	0.37	1.12	3.43	-1.51	1353.30	93.42	137.11	1309.61	-230.52
1	70	245	4.03	0.29	1.54	2.78	-1.76	1322.57	-11.64	101.84	1209.09	-372.18
1	70	246	3.18	6.24e-02	0.95	2.29	-1.41	1241.07	-178.20	79.48	983.38	-547.11
1	70	247	2.30	-1.18	-0.85	1.96	-1.02	1087.31	-376.66	110.78	599.87	-689.93
1	70	248	0.83	-2.74	-2.21	0.30	-1.26	969.88	-606.77	186.57	176.54	-788.31
1	70	249	0.12	-2.81	-2.79	9.82e-02	0.24	1163.25	-179.95	738.15	245.15	624.73
1	70	250	0.46	-1.53	-1.51	0.44	0.21	1122.39	-12.09	638.66	471.65	561.06
1	70	251	1.12	-8.23e-02	0.43	0.61	0.60	1154.92	133.12	499.16	788.89	489.93
1	70	252	2.35	0.17	1.42	1.09	1.08	1206.27	222.56	399.64	1029.19	377.94
1	70	253	2.80	0.47	1.55	1.71	1.16	1245.90	266.09	340.53	1171.46	259.62
1	70	254	2.72	0.86	1.42	2.15	0.86	1267.17	283.45	308.11	1242.51	153.78
1	70	255	2.48	1.19	1.31	2.36	0.37	1275.25	288.80	292.59	1271.46	60.99
1	70	256	2.40	1.27	1.29	2.38	-0.15	1276.06	289.21	289.88	1275.39	-25.68
1	70	257	2.56	1.02	1.36	2.23	-0.64	1270.78	285.67	299.35	1257.09	-115.29
1	70	258	2.65	0.66	1.45	1.87	-0.97	1254.86	273.41	323.58	1204.68	-216.17
1	70	259	2.35	0.34	1.33	1.37	-1.00	1221.47	241.32	370.47	1092.32	-331.52
1	70	260	1.52	-2.05e-02	0.56	0.94	-0.75	1170.99	172.43	453.85	889.57	-449.24
1	70	261	0.78	-1.06	-0.89	0.62	-0.53	1125.78	47.76	579.93	593.61	-538.96
1	70	262	0.24	-2.66	-2.60	0.18	-0.41	1161.72	-183.10	737.90	240.72	-624.77
1	70	263	-9.15e-02	-3.06	-3.05	-9.56e-02	-0.11	1223.58	88.51	1047.80	264.29	410.63
1	70	264	-0.10	-1.75	-1.75	-0.10	-4.69e-02	1134.60	271.24	929.07	476.77	367.70
1	70	265	0.20	-0.17	1.67e-02	1.46e-02	0.19	1077.53	428.07	755.02	750.58	324.72
1	70	266	1.32	9.80e-02	1.11	0.31	0.46	1095.59	470.21	609.31	956.49	260.08
1	70	267	1.87	0.44	1.59	0.73	0.58	1143.78	447.98	501.70	1090.06	185.72
1	70	268	1.97	0.84	1.71	1.10	0.47	1181.70	414.75	431.77	1164.68	112.99
1	70	269	1.81	1.23	1.70	1.33	0.22	1200.79	392.73	395.29	1198.23	45.39
1	70	270	1.70	1.35	1.69	1.37	-7.87e-02	1203.40	388.70	389.16	1202.95	-19.31
1	70	271	1.85	1.03	1.66	1.22	-0.34	1190.31	403.50	412.90	1180.90	-85.50
1	70	272	1.82	0.65	1.55	0.92	-0.49	1158.89	433.28	468.81	1123.35	-156.60
1	70	273	1.41	0.31	1.16	0.56	-0.46	1111.13	463.80	561.22	1013.71	-231.45
1	70	274	0.58	-2.19e-02	0.30	0.26	-0.30	1073.90	454.87	692.75	836.03	-301.11
1	70	275	7.98e-02	-1.10	-1.08	6.23e-02	-0.14	1100.40	343.16	857.33	586.22	-353.52
1	70	276	-5.66e-02	-2.90	-2.90	-5.67e-02	-1.53e-02	1222.25	84.81	1047.23	259.83	-410.42
1	70	277	-0.14	-3.13	-3.12	-0.15	-0.16	1224.86	233.92	1190.80	267.99	180.54
1	70	278	-0.23	-1.91	-1.90	-0.25	-0.17	1107.26	433.10	1065.85	474.51	161.87
1	70	279	-0.12	-0.31	-0.21	-0.22	-9.06e-02	967.24	642.55	880.05	729.74	143.90
1	70	280	0.92	-3.84e-02	0.92	-3.71e-02	3.49e-02	972.19	663.33	717.73	917.80	117.65
1	70	281	1.55	0.25	1.54	0.26	0.12	1059.30	574.80	590.71	1043.39	86.33
1	70	282	1.81	0.55	1.80	0.56	0.13	1121.80	499.36	504.05	1117.12	53.79
1	70	283	1.88	0.75	1.88	0.76	6.81e-02	1152.50	456.86	457.55	1151.80	21.91
1	70	284	1.86	0.80	1.86	0.80	-2.02e-02	1156.86	449.67	449.79	1156.74	-9.37
1	70	285	1.79	0.68	1.78	0.68	-9.19e-02	1136.12	477.94	480.50	1133.56	-41.00
1	70	286	1.56	0.44	1.55	0.45	-0.11	1085.71	540.85	550.95	1075.60	-73.50
1	70	287	1.05	0.18	1.05	0.18	-5.87e-02	1003.63	629.54	662.26	970.91	-105.68
1	70	288	0.15	-3.59e-02	0.14	-3.09e-02	3.00e-02	944.00	675.63	811.73	807.89	-134.17
1	70	289	-0.13	-1.22	-1.21	-0.14	9.92e-02	1042.05	526.35	989.74	578.67	-155.70
1	70	290	-0.13	-2.99	-2.99	-0.13	0.11	1223.97	230.31	1190.14	264.14	-180.20
1	70	291	-0.13	-3.03	-3.02	-0.14	-0.16	1204.63	263.17	1201.72	266.08	-52.26
1	70	292	-0.19	-1.90	-1.86	-0.22	-0.24	1080.93	467.38	1077.44	470.87	-46.18

1	70	293	8.61e-02	-0.54	-0.26	-0.19	-0.31	901.54	714.45	892.49	723.51	-40.15
1	70	294	0.93	-0.13	0.84	-3.51e-02	-0.31	914.19	725.47	730.64	909.02	-30.80
1	70	295	1.52	0.17	1.47	0.22	-0.25	1033.60	602.75	603.70	1032.65	-20.25
1	70	296	1.79	0.46	1.76	0.48	-0.17	1105.32	516.66	516.87	1105.11	-11.11
1	70	297	1.87	0.65	1.86	0.65	-7.30e-02	1139.19	470.17	470.20	1139.17	-4.10
1	70	298	1.85	0.69	1.85	0.69	2.54e-02	1144.00	462.42	462.42	1143.99	1.77
1	70	299	1.76	0.58	1.75	0.59	0.12	1121.31	493.21	493.31	1121.21	8.17
1	70	300	1.53	0.36	1.50	0.40	0.21	1064.82	563.45	563.99	1064.27	16.48
1	70	301	1.06	8.49e-02	0.97	0.17	0.27	963.84	672.85	675.33	961.37	26.73
1	70	302	0.34	-0.28	8.41e-02	-1.91e-02	0.31	851.37	773.88	824.43	800.82	36.91
1	70	303	-5.71e-02	-1.28	-1.21	-0.13	0.29	1006.28	569.76	1001.71	574.33	44.44
1	70	304	-0.12	-2.92	-2.91	-0.13	0.17	1204.06	259.51	1201.11	262.47	52.73
1	70	305	-4.28e-02	-2.78	-2.76	-6.37e-02	-0.24	1171.39	173.50	1085.68	259.21	-279.61
1	70	306	6.70e-02	-1.76	-1.67	-2.34e-02	-0.40	1071.63	363.52	968.55	466.61	-249.74
1	70	307	0.55	-0.62	-0.17	0.10	-0.57	985.80	542.88	796.36	732.31	-219.13
1	70	308	1.27	-0.13	0.85	0.30	-0.65	1012.40	569.15	651.29	930.26	-172.23
1	70	309	1.72	0.25	1.39	0.58	-0.61	1084.27	516.69	543.06	1057.90	-119.46
1	70	310	1.82	0.63	1.62	0.84	-0.45	1136.37	464.43	471.91	1128.89	-70.53
1	70	311	1.74	0.94	1.68	1.00	-0.20	1161.74	433.40	434.46	1160.68	-27.73
1	70	312	1.68	1.02	1.67	1.03	6.95e-02	1165.27	428.03	428.22	1165.08	11.85
1	70	313	1.73	0.80	1.60	0.93	0.32	1148.14	448.76	452.80	1144.10	52.99
1	70	314	1.67	0.46	1.39	0.73	0.50	1106.08	493.38	510.04	1089.43	99.63
1	70	315	1.35	8.75e-02	0.93	0.50	0.59	1038.06	550.40	603.37	985.09	151.74
1	70	316	0.81	-0.41	0.10	0.30	0.60	981.01	568.75	734.60	815.15	202.16
1	70	317	0.32	-1.29	-1.09	0.12	0.54	1025.42	446.25	897.68	573.99	240.13
1	70	318	-1.41e-03	-2.68	-2.64	-3.81e-02	0.31	1171.10	169.63	1085.25	255.48	280.37
1	70	319	0.33	-2.45	-2.29	0.16	-0.65	1097.98	-39.74	818.90	239.34	-489.51
1	70	320	0.87	-1.68	-1.43	0.62	-0.76	1048.12	129.83	720.58	457.36	-439.88
1	70	321	1.36	-0.59	-1.05e-02	0.78	-0.89	1062.64	278.64	581.67	759.60	-381.77
1	70	322	2.02	-6.67e-02	0.94	1.02	-1.04	1117.21	348.48	480.11	985.59	-289.58
1	70	323	2.32	0.31	1.27	1.35	-1.00	1168.47	366.53	416.85	1118.15	-194.48
1	70	324	2.21	0.75	1.34	1.62	-0.72	1199.32	364.39	379.92	1183.79	-112.81
1	70	325	1.92	1.17	1.34	1.75	-0.31	1212.60	359.06	361.34	1210.32	-44.09
1	70	326	1.80	1.30	1.33	1.77	0.12	1214.21	357.76	358.17	1213.80	18.70
1	70	327	2.04	0.94	1.31	1.67	0.52	1205.36	361.49	369.99	1196.86	84.27
1	70	328	2.18	0.52	1.24	1.46	0.82	1181.46	365.62	398.61	1148.46	160.72
1	70	329	2.01	0.12	0.93	1.20	0.94	1136.83	357.79	450.16	1044.45	251.85
1	70	330	1.60	-0.45	0.14	1.01	0.93	1078.81	312.95	536.19	855.57	348.05
1	70	331	1.19	-1.40	-0.98	0.77	0.96	1043.69	194.53	662.23	575.99	422.38
1	70	332	0.44	-2.37	-2.15	0.22	0.76	1098.43	-43.42	818.82	236.19	491.01
1	70	333	1.68	-3.04	-1.88	0.52	-2.03	912.03	-399.16	337.89	174.97	-650.51
1	70	334	3.00	-1.81	-1.50	2.69	-1.17	963.91	-239.74	288.83	435.35	-597.35
1	70	335	2.54	-0.39	0.21	1.95	-1.17	1106.87	-59.30	228.68	818.90	-502.89
1	70	336	3.32	1.08e-02	1.10	2.23	-1.55	1207.27	101.09	226.34	1082.02	-350.52
1	70	337	3.47	0.21	1.02	2.66	-1.41	1255.90	197.93	247.05	1206.78	-222.61
1	70	338	3.16	0.53	0.91	2.79	-0.92	1273.90	247.53	263.18	1258.24	-125.79
1	70	339	2.87	0.79	0.86	2.80	-0.38	1277.90	268.80	271.16	1275.54	-48.70
1	70	340	2.80	0.84	0.86	2.79	0.16	1277.93	271.83	272.24	1277.51	20.44
1	70	341	2.98	0.66	0.88	2.76	0.68	1275.77	258.09	266.67	1267.18	93.08
1	70	342	3.23	0.38	0.96	2.64	1.16	1264.60	220.48	252.89	1232.19	181.07
1	70	343	3.12	0.17	1.00	2.29	1.33	1229.60	142.82	231.34	1141.08	297.26
1	70	344	2.86	-0.42	0.14	2.29	1.24	1149.74	7.11	221.05	935.80	445.74
1	70	345	2.98	-1.80	-1.24	2.41	1.54	1014.93	-174.80	258.79	581.34	572.59
1	70	346	1.73	-2.49	-1.44	0.68	1.83	917.86	-398.75	339.46	179.65	653.44
1	70	347	0.34	-8.78	-7.29	-1.15	-3.38	379.27	-961.51	-545.32	-36.93	-620.33
1	70	348	7.64	0.60	0.77	7.48	-1.07	747.29	-714.57	-326.48	359.20	-645.54
1	70	349	4.51	-3.43e-02	0.22	4.25	-1.05	1146.52	-449.84	-274.37	971.05	-499.32
1	70	350	5.94	-0.18	0.92	4.84	-2.35	1279.65	-119.67	-51.67	1211.65	-300.88
1	70	351	5.08	-5.88e-02	0.45	4.58	-1.53	1328.99	54.99	81.98	1302.00	-183.45
1	70	352	4.35	0.16	0.34	4.17	-0.85	1341.11	147.14	155.98	1332.27	-102.35
1	70	353	3.93	0.32	0.35	3.90	-0.32	1340.09	189.22	190.58	1338.73	-39.52
1	70	354	3.86	0.35	0.35	3.86	0.15	1339.18	195.76	196.00	1338.95	16.48
1	70	355	4.14	0.24	0.35	4.03	0.65	1340.68	168.94	173.79	1335.84	75.19
1	70	356	4.72	4.99e-02	0.43	4.34	1.27	1336.01	99.01	116.73	1318.30	146.96
1	70	357	5.38	-5.85e-02	0.81	4.51	1.99	1305.94	-40.52	6.31	1259.11	246.71
1	70	358	3.63	0.42	0.53	3.51	0.60	1205.28	-313.07	-194.89	1087.10	406.78
1	70	359	10.01	-3.16	-2.20	9.05	3.43	957.24	-657.67	-323.23	622.81	654.40
1	70	360	-0.32	-3.59	-1.89	-2.02	1.63	412.25	-922.16	-498.07	-11.85	621.34
1	70	361	17.40	-3.53	14.03	-0.15	7.70	-937.13	-1779.20	-1754.26	-962.07	-142.76
1	70	362	9.31	-9.10	4.01	-3.80	8.33	797.35	-1522.70	-1283.79	558.44	-705.13
1	70	363	11.74	-4.88	0.77	6.09	-7.87	1165.61	-662.50	-609.76	1112.87	-306.00
1	70	364	8.54	-1.35	-0.91	8.09	-2.04	1315.32	-227.47	-214.78	1302.63	-139.33
1	70	365	6.41	-0.41	-0.31	6.31	-0.81	1370.79	-13.91	-8.60	1365.48	-85.52
1	70	366	5.20	-0.11	-8.59e-02	5.18	-0.35	1383.37	96.29	98.19	1381.47	-49.43
1	70	367	4.65	2.20e-02	2.52e-02	4.64	-0.12	1381.66	146.69	147.00	1381.35	-19.50
1	70	368	4.57	3.89e-02	3.95e-02	4.57	5.27e-02	1380.52	154.74	154.80	1380.46	8.34

1	70	369	4.96	-6.02e-02	-4.61e-02	4.95	0.26	1382.50	123.16	124.24	1381.42	36.91
1	70	370	5.95	-0.31	-0.24	5.88	0.66	1377.96	41.04	44.66	1374.34	69.46
1	70	371	7.79	-1.11	-0.78	7.46	1.69	1344.14	-123.09	-114.14	1335.19	114.23
1	70	372	10.64	-4.01	2.47e-02	6.61	6.54	1243.57	-450.53	-413.99	1207.02	246.12
1	70	373	9.05	-6.36	8.54	-5.85	-2.75	1029.45	-1091.75	-981.47	919.17	470.91
1	70	374	15.18	-7.71	6.50	0.97	-11.11	-792.18	-1858.01	-1809.22	-840.97	222.76
1	70	375	55.67	-13.11	55.62	-13.06	1.88	872.53	-1252.74	-1251.84	871.63	43.63
1	70	376	23.10	7.43e-02	0.18	22.99	-1.57	1316.46	-566.75	-564.41	1314.12	-66.33
1	70	377	8.92	0.89	0.90	8.92	0.13	1320.02	-197.52	-196.22	1318.71	-44.54
1	70	378	6.40	-0.17	-0.17	6.40	3.47e-02	1375.43	-10.89	-9.91	1374.45	-36.81
1	70	379	5.28	-0.12	-0.12	5.28	-9.09e-04	1390.70	94.13	94.59	1390.24	-24.43
1	70	380	4.74	-4.53e-03	-4.52e-03	4.74	-6.89e-03	1390.04	143.26	143.35	1389.95	-10.19
1	70	381	4.67	1.16e-02	1.16e-02	4.67	-8.40e-03	1389.03	151.19	151.20	1389.01	4.63
1	70	382	5.05	-8.09e-02	-8.08e-02	5.05	-9.43e-03	1390.28	120.58	120.87	1390.00	19.13
1	70	383	5.99	-0.14	-0.14	5.99	-2.16e-02	1383.73	42.78	43.55	1382.96	32.18
1	70	384	8.10	0.66	0.66	8.10	-3.04e-02	1350.61	-100.42	-99.22	1349.41	41.83
1	70	385	19.27	0.56	0.71	19.13	1.64	1358.22	-390.90	-388.61	1355.93	63.29
1	70	386	40.28	7.96	40.28	7.96	0.30	1075.40	-620.91	-620.75	1075.24	16.38
1	70	387	18.84	-7.40	18.78	-7.35	1.22	-658.71	-1274.94	-1264.83	-668.82	78.28
1	70	388	8.12	-6.00	2.28	-0.15	-6.96	648.26	-1285.54	-1075.98	438.70	601.11
1	70	389	12.16	-3.48	0.96	7.72	7.05	1146.41	-569.94	-535.89	1112.36	239.33
1	70	390	8.81	-1.18	-0.80	8.43	1.91	1309.70	-190.98	-187.16	1305.88	75.61
1	70	391	6.57	-0.38	-0.26	6.44	0.92	1375.06	0.92	1.62	1374.36	31.04
1	70	392	5.31	-7.85e-02	-3.99e-02	5.27	0.45	1393.90	101.27	101.37	1393.80	11.57
1	70	393	4.74	6.60e-02	7.12e-02	4.74	0.16	1395.38	147.31	147.31	1395.37	3.35
1	70	394	4.67	8.18e-02	8.38e-02	4.67	-9.39e-02	1394.73	154.68	154.68	1394.73	-0.75
1	70	395	5.08	-3.20e-02	-4.79e-03	5.05	-0.37	1394.56	125.94	125.97	1394.53	-6.48
1	70	396	6.11	-0.30	-0.20	6.02	-0.79	1384.98	51.40	51.70	1384.68	-20.11
1	70	397	8.09	-0.98	-0.65	7.76	-1.69	1343.03	-95.68	-93.76	1341.10	-52.56
1	70	398	11.82	-3.47	8.48e-02	8.26	-6.46	1229.48	-378.93	-359.03	1209.58	-177.79
1	70	399	8.69	-3.94	7.68	-2.93	3.42	956.86	-960.13	-857.62	854.36	-431.26
1	70	400	12.21	-2.68	11.68	-2.15	2.76	-517.78	-1325.52	-1301.80	-541.50	-136.38
1	70	401	-1.72	-9.02	-8.47	-2.26	1.92	342.41	-706.64	-374.72	10.49	487.88
1	70	402	4.58	1.55	1.55	4.58	4.63e-02	687.20	-449.43	-184.77	422.54	480.39
1	70	403	6.01	-0.29	1.09	4.63	2.61	1103.69	-276.09	-159.16	986.76	384.28
1	70	404	6.54	-0.37	1.08	5.08	2.82	1265.64	-33.65	1.14	1230.85	209.72
1	70	405	5.45	-5.13e-02	0.59	4.81	1.77	1343.09	92.87	103.37	1332.59	114.10
1	70	406	4.63	0.26	0.49	4.41	0.97	1373.73	158.61	161.29	1371.05	57.04
1	70	407	4.20	0.46	0.49	4.17	0.35	1382.20	188.24	188.59	1381.84	20.67
1	70	408	4.14	0.48	0.49	4.13	-0.19	1382.77	192.78	192.83	1382.72	-7.77
1	70	409	4.44	0.33	0.48	4.29	-0.77	1377.92	173.93	175.23	1376.63	-39.40
1	70	410	5.10	5.66e-02	0.55	4.61	-1.50	1358.31	124.26	130.29	1352.28	-86.02
1	70	411	5.96	-0.23	0.92	4.82	-2.41	1303.94	23.09	44.24	1282.79	-163.22
1	70	412	4.65	0.23	1.04	3.84	-1.71	1176.47	-182.35	-110.34	1104.47	-304.40
1	70	413	8.25	-2.19	-1.01	7.07	-3.31	876.43	-415.77	-187.30	647.95	-492.98
1	70	414	-3.16	-4.37	-3.25	-4.28	-0.31	368.40	-672.24	-335.40	31.56	-486.90
1	70	415	0.95	-3.59	-2.88	0.25	1.64	801.19	-152.73	440.71	207.75	462.52
1	70	416	2.06	-1.82	-1.67	1.90	0.77	850.01	2.25	372.88	479.38	420.53
1	70	417	2.61	-0.31	0.74	1.55	1.40	1027.47	122.61	285.52	864.56	347.67
1	70	418	3.84	1.80e-04	1.55	2.29	1.88	1187.73	198.83	254.47	1132.09	227.88
1	70	419	3.90	0.39	1.35	2.93	1.57	1285.19	234.03	251.28	1267.95	133.51
1	70	420	3.58	0.77	1.17	3.19	0.97	1333.53	248.14	252.65	1329.02	69.83
1	70	421	3.33	1.02	1.08	3.27	0.38	1352.34	252.85	253.46	1351.73	25.84
1	70	422	3.28	1.05	1.06	3.27	-0.19	1354.66	253.18	253.27	1354.57	-10.17
1	70	423	3.45	0.86	1.11	3.20	-0.77	1342.76	249.79	252.04	1340.51	-49.61
1	70	424	3.70	0.53	1.24	2.98	-1.33	1307.50	239.17	249.47	1297.19	-104.42
1	70	425	3.63	0.20	1.37	2.45	-1.63	1230.43	212.01	247.79	1194.64	-187.52
1	70	426	2.99	-0.31	0.63	2.05	-1.49	1091.11	153.58	264.94	979.75	-303.32
1	70	427	2.28	-1.59	-1.09	1.77	-1.31	904.73	49.56	331.49	622.80	-402.01
1	70	428	0.90	-3.07	-2.49	0.32	-1.40	802.67	-152.78	440.68	209.21	-463.50
1	70	429	0.15	-3.26	-3.17	7.11e-02	0.53	944.86	157.12	835.45	266.53	272.42
1	70	430	0.54	-1.87	-1.72	0.39	0.58	881.13	345.93	724.69	502.36	243.41
1	70	431	1.31	-0.33	0.33	0.65	0.80	939.21	453.34	568.43	824.13	206.57
1	70	432	2.33	0.29	1.45	1.17	1.01	1100.66	418.19	451.76	1067.09	147.60
1	70	433	2.69	0.81	1.71	1.80	0.94	1224.43	367.29	377.14	1214.58	91.33
1	70	434	2.67	1.25	1.65	2.27	0.64	1293.26	331.14	333.63	1290.77	48.92
1	70	435	2.58	1.50	1.57	2.51	0.26	1323.12	311.81	312.14	1322.79	18.17
1	70	436	2.55	1.54	1.55	2.53	-0.12	1327.24	308.19	308.24	1327.19	-7.45
1	70	437	2.60	1.34	1.59	2.36	-0.50	1307.85	320.05	321.31	1306.59	-35.32
1	70	438	2.63	0.96	1.60	1.98	-0.82	1255.11	348.48	354.35	1249.24	-72.72
1	70	439	2.37	0.47	1.35	1.48	-0.95	1151.81	394.11	415.15	1130.77	-124.49
1	70	440	1.66	-0.16	0.46	1.04	-0.86	995.23	443.92	515.23	923.93	-185.01
1	70	441	0.93	-1.35	-1.07	0.66	-0.74	875.08	408.17	657.81	625.44	-232.89
1	70	442	0.26	-3.07	-2.98	0.16	-0.57	943.19	150.58	833.17	260.60	-274.05
1	70	443	-3.70e-02	-3.45	-3.45	-4.13e-02	0.12	989.94	278.80	987.39	281.34	42.47
1	70	444	7.51e-02	-1.89	-1.87	5.70e-02	0.19	867.72	507.36	863.86	511.22	37.10

1	70	445	0.55	-5.62e-03	0.19	0.35	0.27	819.52	677.96	685.03	812.45	30.84
1	70	446	1.52	0.69	1.39	0.82	0.29	1043.32	538.64	539.57	1042.39	21.69
1	70	447	1.96	1.28	1.84	1.40	0.26	1191.40	436.44	436.65	1191.19	12.63
1	70	448	2.08	1.70	1.88	1.90	0.19	1273.25	372.79	372.83	1273.21	5.98
1	70	449	2.20	1.80	1.82	2.18	8.82e-02	1309.52	340.60	340.60	1309.51	1.79
1	70	450	2.21	1.81	1.81	2.21	-2.49e-02	1314.72	334.88	334.88	1314.71	-1.18
1	70	451	2.09	1.75	1.84	2.00	-0.15	1291.17	354.84	354.86	1291.15	-4.51
1	70	452	1.97	1.41	1.78	1.60	-0.27	1228.13	404.22	404.34	1228.01	-9.68
1	70	453	1.62	0.88	1.37	1.13	-0.35	1105.71	490.31	490.80	1105.21	-17.48
1	70	454	0.94	0.16	0.36	0.74	-0.34	907.45	617.77	620.33	904.89	-27.09
1	70	455	0.44	-1.25	-1.22	0.41	-0.20	795.40	619.16	787.75	626.81	-35.91
1	70	456	5.92e-02	-3.24	-3.24	5.88e-02	-3.84e-02	986.65	270.99	983.81	273.83	-44.99
1	70	457	0.12	-3.42	-3.40	9.55e-02	-0.29	984.52	222.10	932.01	274.61	-193.08
1	70	458	0.38	-1.95	-1.93	0.36	-0.18	891.70	429.35	812.97	508.08	-173.79
1	70	459	0.73	0.11	0.22	0.61	-0.24	905.00	555.44	641.70	818.74	-150.70
1	70	460	1.71	0.82	1.46	1.07	-0.40	1076.38	484.23	506.22	1054.39	-111.98
1	70	461	2.16	1.33	1.83	1.66	-0.41	1209.84	406.10	412.84	1203.11	-73.27
1	70	462	2.29	1.68	1.84	2.13	-0.27	1285.47	353.73	355.60	1283.60	-41.72
1	70	463	2.39	1.78	1.79	2.38	-8.90e-02	1319.12	326.53	326.81	1318.85	-16.56
1	70	464	2.41	1.78	1.79	2.40	8.26e-02	1324.05	321.59	321.62	1324.02	5.79
1	70	465	2.31	1.73	1.84	2.20	0.23	1302.49	338.22	339.14	1301.57	29.68
1	70	466	2.11	1.52	1.84	1.79	0.29	1244.46	378.62	382.72	1240.37	59.40
1	70	467	1.62	1.15	1.47	1.30	0.22	1132.37	445.84	459.91	1118.30	97.27
1	70	468	0.98	0.31	0.32	0.97	9.57e-02	962.43	529.64	579.28	912.79	137.91
1	70	469	0.79	-1.50	-1.47	0.76	0.26	856.69	505.40	738.82	623.26	165.87
1	70	470	0.35	-3.31	-3.22	0.26	0.56	976.97	215.53	927.00	265.50	188.55
1	70	471	0.96	-3.83	-3.34	0.46	-1.45	899.08	-13.34	653.96	231.78	-404.44
1	70	472	1.73	-2.22	-2.21	1.71	-0.25	896.32	159.17	562.68	492.81	-366.92
1	70	473	1.90	0.11	0.53	1.48	-0.76	1017.55	266.65	435.60	848.60	-313.56
1	70	474	3.08	0.61	1.60	2.09	-1.21	1163.66	296.25	356.05	1103.86	-219.77
1	70	475	3.25	1.01	1.64	2.63	-1.00	1267.99	290.75	310.63	1248.10	-137.98
1	70	476	3.17	1.31	1.56	2.92	-0.63	1325.05	280.21	285.80	1319.46	-76.19
1	70	477	3.09	1.47	1.50	3.06	-0.22	1349.23	273.15	273.96	1348.42	-29.57
1	70	478	3.08	1.49	1.51	3.06	0.18	1352.74	271.63	271.73	1352.63	10.49
1	70	479	3.13	1.41	1.61	2.92	0.55	1337.81	275.61	278.31	1335.11	53.50
1	70	480	3.13	1.22	1.75	2.61	0.85	1295.60	283.27	295.18	1283.69	109.14
1	70	481	2.77	0.99	1.71	2.04	0.87	1209.89	288.46	327.68	1170.66	186.03
1	70	482	1.90	0.30	0.46	1.74	0.48	1070.44	273.68	391.03	953.09	282.36
1	70	483	1.83	-2.10	-2.05	1.77	0.46	914.99	202.74	503.11	614.62	351.73
1	70	484	1.19	-3.87	-3.27	0.60	1.63	884.62	-13.65	648.01	222.95	395.67
1	70	485	-4.77e-02	-10.04	-9.73	-0.36	-1.75	537.18	-441.49	17.85	77.83	-488.42
1	70	486	3.64	-0.79	7.50e-02	2.77	1.75	779.04	-210.18	110.09	458.77	-462.86
1	70	487	6.36	-0.32	1.02	5.01	-2.68	1104.09	-89.50	78.07	936.51	-414.65
1	70	488	5.20	0.52	1.24	4.48	-1.69	1249.27	55.99	116.14	1189.12	-261.07
1	70	489	4.66	0.75	1.21	4.20	-1.26	1335.93	136.28	156.46	1315.75	-154.28
1	70	490	4.24	0.91	1.09	4.05	-0.76	1374.62	179.31	184.93	1368.99	-81.79
1	70	491	4.00	1.02	1.05	3.98	-0.27	1387.90	198.86	199.67	1387.09	-31.06
1	70	492	3.99	1.05	1.07	3.97	0.21	1389.55	202.15	202.25	1389.45	10.84
1	70	493	4.19	1.01	1.18	4.02	0.70	1382.11	190.22	192.87	1379.46	56.12
1	70	494	4.54	0.95	1.40	4.09	1.19	1356.58	157.63	169.27	1344.94	117.53
1	70	495	4.81	0.89	1.61	4.09	1.52	1293.58	90.45	128.01	1256.02	209.24
1	70	496	4.19	0.65	1.10	3.75	1.17	1169.82	-46.62	67.79	1055.41	355.08
1	70	497	5.03	-2.42	-2.35	4.97	0.71	885.57	-185.29	79.58	620.70	462.04
1	70	498	-3.47	-6.73	-5.93	-4.27	1.40	534.95	-436.40	30.62	67.94	485.32
1	70	499	14.71	-17.20	14.18	-16.67	-4.10	50.19	-802.44	-568.90	-183.35	-380.24
1	70	500	8.61	-6.08	-5.04	7.57	3.78	606.25	-981.51	-637.74	262.47	-653.95
1	70	501	8.10	-0.30	-5.28e-03	7.81	1.55	1144.28	-516.23	-413.36	1041.41	-400.29
1	70	502	6.73	1.15	1.33	6.54	-0.99	1320.51	-185.77	-159.57	1294.30	-196.95
1	70	503	5.83	0.67	0.83	5.66	-0.91	1390.80	-9.53	-1.97	1383.24	-102.60
1	70	504	5.15	0.58	0.65	5.08	-0.56	1414.39	85.26	87.17	1412.47	-50.38
1	70	505	4.80	0.60	0.61	4.79	-0.20	1418.53	129.63	129.89	1418.27	-18.29
1	70	506	4.79	0.63	0.64	4.79	0.14	1418.50	137.54	137.57	1418.47	6.28
1	70	507	5.13	0.65	0.71	5.07	0.51	1417.03	111.44	112.30	1416.17	33.51
1	70	508	5.83	0.78	0.96	5.66	0.92	1404.63	43.00	47.07	1400.55	74.40
1	70	509	6.87	1.30	1.61	6.56	1.28	1360.95	-90.80	-75.86	1346.01	146.54
1	70	510	7.71	1.34	1.36	7.69	0.39	1244.05	-350.80	-287.56	1180.81	311.21
1	70	511	5.28	-5.36	-0.49	0.41	-5.30	848.68	-849.35	-601.85	601.18	599.18
1	70	512	11.58	-10.11	11.51	-10.04	1.23	134.57	-797.82	-566.57	-96.68	402.67
1	70	513	2.47	0.76	1.16	2.07	0.72	939.77	383.54	395.12	928.19	79.41
1	70	514	30.37	-31.09	30.15	-30.88	-3.60	722.59	-1941.96	-1941.96	722.59	-1.32
1	70	515	14.32	5.84	12.50	7.66	-3.49	1279.28	-711.38	-710.70	1278.61	36.63
1	70	516	7.20	2.27	2.30	7.18	-0.36	1353.56	-314.12	-312.63	1352.07	49.85
1	70	517	6.24	0.69	0.69	6.24	-2.22e-02	1409.45	-87.02	-85.94	1408.36	40.24
1	70	518	5.47	0.43	0.43	5.47	4.01e-03	1422.21	37.32	37.83	1421.70	26.61
1	70	519	5.07	0.42	0.42	5.07	-1.33e-02	1420.10	95.66	95.76	1420.00	11.49
1	70	520	5.06	0.44	0.44	5.06	-4.28e-02	1418.92	105.97	105.98	1418.91	-4.14

1	70	521	5.44	0.50	0.50	5.44	-8.02e-02	1421.47	71.53	71.81	1421.19	-19.39
1	70	522	6.25	0.77	0.78	6.24	-0.11	1417.87	-17.66	-16.89	1417.10	-33.22
1	70	523	7.42	2.27	2.27	7.42	6.23e-02	1387.38	-184.73	-183.53	1386.18	-43.30
1	70	524	13.32	7.52	12.18	8.66	2.30	1366.25	-466.16	-465.18	1365.28	-42.24
1	70	525	28.14	-13.31	28.00	-13.18	2.39	1036.99	-1262.28	-1262.25	1036.95	-8.84
1	70	526	2.62	6.64e-02	0.23	2.46	0.63	679.76	443.95	516.46	607.25	108.82
1	70	527	0.93	-2.10	-2.03	0.87	0.44	658.83	192.52	637.63	213.73	97.15
1	70	528	3.39	-3.75	1.28	-1.64	3.26	463.68	25.03	391.21	97.50	-162.91
1	70	529	3.81	-1.73	-1.12	3.20	1.73	645.20	40.91	285.08	401.03	-296.53
1	70	530	4.03	0.83	1.54	3.33	-1.32	926.85	193.79	266.61	854.03	-219.27
1	70	531	3.70	0.33	0.79	3.24	-1.15	1118.60	213.72	235.92	1096.40	-139.98
1	70	532	3.19	0.21	0.39	3.01	-0.71	1240.56	193.89	201.58	1232.86	-89.42
1	70	533	2.86	0.22	0.27	2.81	-0.37	1304.18	171.90	174.22	1301.86	-51.25
1	70	534	2.72	0.22	0.23	2.71	-0.13	1330.81	158.24	158.58	1330.48	-19.83
1	70	535	2.71	0.21	0.21	2.71	7.71e-02	1334.33	156.19	156.25	1334.26	9.04
1	70	536	2.84	0.20	0.24	2.81	0.30	1317.15	166.30	167.62	1315.83	38.98
1	70	537	3.16	0.20	0.34	3.03	0.63	1269.77	187.13	192.19	1264.71	73.82
1	70	538	3.72	0.34	0.77	3.30	1.12	1173.51	212.73	227.56	1158.67	118.47
1	70	539	17.92	-13.47	17.92	-13.47	-0.21	-330.41	-1247.34	-1103.71	-474.04	333.27
1	70	540	10.89	-8.41	-4.59	7.07	-7.69	640.78	-1390.24	-1025.33	275.88	779.72
1	70	541	7.20	-0.29	-0.20	7.11	0.82	1188.42	-715.83	-596.28	1068.86	461.92
1	70	542	6.81	0.87	0.99	6.70	0.82	1335.51	-280.58	-244.20	1299.13	239.71
1	70	543	5.83	0.58	0.66	5.74	0.66	1387.15	-59.88	-45.28	1372.55	144.62
1	70	544	5.10	0.50	0.54	5.07	0.40	1397.21	58.29	63.33	1392.17	81.98
1	70	545	4.72	0.53	0.54	4.72	0.12	1393.97	113.63	114.47	1393.14	32.68
1	70	546	4.69	0.57	0.57	4.68	-0.15	1392.68	123.09	123.20	1392.57	-11.81
1	70	547	5.01	0.60	0.65	4.96	-0.46	1395.99	89.48	92.04	1393.43	-57.82
1	70	548	5.67	0.74	0.87	5.54	-0.80	1394.37	2.20	11.35	1385.22	-112.48
1	70	549	6.61	1.13	1.41	6.32	-1.22	1366.61	-169.00	-144.93	1342.54	-190.75
1	70	550	7.35	4.33e-02	0.78	6.62	-2.20	1268.94	-512.51	-430.75	1187.18	-372.79
1	70	551	7.86	-8.16	0.84	-1.15	7.95	912.10	-1127.79	-884.39	668.69	-661.27
1	70	552	12.07	-6.37	11.59	-5.90	2.92	-222.62	-1285.54	-1124.83	-383.33	-380.77
1	70	553	0.82	-10.77	-9.83	-0.12	3.17	533.03	-862.65	-335.36	5.74	676.68
1	70	554	5.79	0.56	0.67	5.69	-0.73	828.93	-567.11	-143.47	405.29	641.83
1	70	555	6.64	-0.54	6.94e-03	6.09	1.90	1173.47	-377.63	-134.49	930.33	563.92
1	70	556	5.39	0.46	1.02	4.83	1.56	1280.39	-109.57	-5.33	1176.16	366.08
1	70	557	4.68	0.60	0.98	4.31	1.18	1326.68	46.72	89.70	1283.70	230.57
1	70	558	4.15	0.75	0.91	3.99	0.72	1337.27	133.82	148.22	1322.87	130.85
1	70	559	3.83	0.89	0.91	3.81	0.25	1335.63	174.65	176.96	1333.32	51.71
1	70	560	3.78	0.93	0.95	3.77	-0.21	1334.72	181.15	181.47	1334.39	-19.35
1	70	561	3.99	0.89	1.04	3.84	-0.68	1336.78	155.04	162.50	1329.33	-93.57
1	70	562	4.36	0.83	1.23	3.96	-1.11	1333.38	87.59	115.07	1305.91	-182.95
1	70	563	4.60	0.86	1.39	4.07	-1.30	1304.92	-42.94	28.86	1233.12	-302.69
1	70	564	4.14	9.37e-02	9.54e-02	4.14	-8.29e-02	1217.47	-285.41	-110.96	1043.02	-481.39
1	70	565	8.80	-3.68	-3.28	8.40	-2.19	967.48	-533.80	-156.28	589.96	-651.34
1	70	566	-1.46	-6.13	-4.28	-3.32	-2.29	545.61	-831.80	-301.27	15.09	-670.29
1	70	567	1.76	-3.47	-2.36	0.65	2.13	998.99	-344.02	465.85	189.12	657.09
1	70	568	2.86	-2.10	-1.95	2.71	0.84	1020.02	-175.22	401.84	442.96	597.27
1	70	569	2.50	-0.24	0.16	2.10	0.97	1124.74	-11.89	314.72	798.13	514.36
1	70	570	3.21	0.35	1.24	2.32	1.32	1200.93	126.42	278.53	1048.82	374.58
1	70	571	3.27	0.67	1.36	2.58	1.15	1241.22	206.99	270.05	1178.16	247.47
1	70	572	3.01	1.02	1.37	2.67	0.75	1256.81	248.07	268.98	1235.90	143.72
1	70	573	2.73	1.31	1.38	2.67	0.29	1260.28	265.54	268.83	1257.00	57.09
1	70	574	2.66	1.38	1.41	2.64	-0.18	1260.29	267.76	268.26	1259.80	-22.22
1	70	575	2.83	1.19	1.46	2.56	-0.61	1258.35	255.80	266.91	1247.25	-104.92
1	70	576	2.96	0.93	1.49	2.39	-0.91	1248.21	223.34	264.78	1206.77	-201.86
1	70	577	2.67	0.72	1.28	2.10	-0.89	1217.29	156.14	265.55	1107.88	-322.69
1	70	578	2.49	-0.31	-0.13	2.32	-0.67	1150.20	37.68	288.11	899.77	-464.64
1	70	579	2.96	-2.43	-2.15	2.68	-1.18	1042.45	-120.29	358.31	563.85	-572.21
1	70	580	2.13	-3.31	-2.05	0.87	-2.30	987.81	-339.65	462.05	186.11	-649.23
1	70	581	0.31	-2.80	-2.68	0.19	0.61	1138.40	-16.70	879.86	241.83	481.45
1	70	582	0.78	-1.84	-1.69	0.63	0.62	1077.24	154.00	776.49	454.75	432.69
1	70	583	1.20	-0.43	-3.02e-02	0.79	0.70	1068.48	301.64	627.88	742.24	379.13
1	70	584	1.89	0.21	1.10	1.00	0.84	1104.07	366.15	512.76	957.46	294.44
1	70	585	2.26	0.61	1.57	1.31	0.81	1146.15	376.77	435.09	1087.83	203.64
1	70	586	2.22	1.05	1.73	1.54	0.58	1173.93	368.49	387.19	1155.24	121.28
1	70	587	1.97	1.46	1.78	1.65	0.24	1186.50	359.61	362.47	1183.64	48.56
1	70	588	1.85	1.59	1.80	1.64	-0.11	1188.02	357.34	357.80	1187.56	-19.54
1	70	589	2.07	1.22	1.77	1.52	-0.41	1179.30	362.61	372.67	1169.25	-90.05
1	70	590	2.07	0.85	1.61	1.31	-0.59	1156.51	370.85	409.21	1118.15	-169.31
1	70	591	1.71	0.50	1.09	1.12	-0.61	1116.54	369.11	473.40	1012.25	-258.98
1	70	592	1.34	-0.31	-4.49e-02	1.08	-0.60	1071.10	330.05	574.08	827.07	-348.26
1	70	593	1.25	-1.70	-1.43	0.98	-0.86	1056.77	215.48	711.65	560.60	-413.81
1	70	594	0.64	-2.76	-2.48	0.35	-0.94	1129.30	-19.55	875.15	234.61	-476.86
1	70	595	-5.59e-02	-3.10	-3.09	-6.57e-02	0.17	1180.07	177.37	1101.63	255.80	269.24
1	70	596	1.17e-02	-1.90	-1.86	-3.19e-02	0.29	1078.21	364.42	984.40	458.23	241.16

1	70	597	0.39	-0.45	-0.15	9.20e-02	0.40	981.31	544.27	810.98	714.59	213.14
1	70	598	1.24	6.28e-02	1.01	0.29	0.46	992.72	574.53	662.69	904.56	170.57
1	70	599	1.81	0.40	1.65	0.56	0.44	1057.24	520.79	549.90	1028.13	121.52
1	70	600	2.03	0.72	1.94	0.81	0.33	1106.56	465.84	474.45	1097.95	73.76
1	70	601	2.06	0.94	2.04	0.96	0.15	1131.00	432.88	434.15	1129.73	29.69
1	70	602	2.05	0.97	2.05	0.98	-3.62e-02	1134.38	426.73	426.95	1134.16	-12.31
1	70	603	1.99	0.83	1.96	0.87	-0.20	1117.53	447.96	452.58	1112.91	-55.43
1	70	604	1.76	0.59	1.68	0.68	-0.31	1076.51	494.31	512.81	1058.01	-102.14
1	70	605	1.24	0.33	1.06	0.50	-0.36	1012.01	553.27	610.44	954.84	-151.52
1	70	606	0.64	-0.23	2.75e-02	0.38	-0.40	965.86	569.33	745.64	789.55	-197.05
1	70	607	0.37	-1.45	-1.32	0.24	-0.47	1024.20	443.67	910.49	557.39	-230.40
1	70	608	6.05e-02	-2.95	-2.91	1.79e-02	-0.36	1174.06	172.71	1097.20	249.56	-266.56
1	70	609	-0.14	-3.28	-3.28	-0.14	9.48e-02	1189.10	256.93	1186.88	259.15	45.44
1	70	610	-0.20	-1.99	-1.98	-0.21	0.14	1068.11	455.96	1065.41	458.66	40.56
1	70	611	-3.36e-02	-0.33	-0.20	-0.17	0.15	891.24	697.65	884.25	704.64	36.11
1	70	612	1.02	-6.29e-03	1.01	7.88e-03	0.12	889.76	720.08	725.40	884.43	29.58
1	70	613	1.70	0.27	1.70	0.27	8.41e-02	1004.78	599.35	600.51	1003.62	21.61
1	70	614	2.03	0.53	2.02	0.54	5.67e-02	1073.52	514.38	514.70	1073.20	13.30
1	70	615	2.14	0.70	2.14	0.70	3.75e-02	1105.89	468.15	468.20	1105.85	5.27
1	70	616	2.15	0.73	2.15	0.73	2.07e-02	1110.47	459.98	459.99	1110.46	-2.51
1	70	617	2.04	0.62	2.04	0.62	-1.35e-03	1088.60	489.80	489.97	1088.42	-10.33
1	70	618	1.74	0.43	1.73	0.43	-3.83e-02	1033.82	558.55	559.26	1033.11	-18.35
1	70	619	1.12	0.23	1.11	0.24	-9.61e-02	935.32	666.07	668.65	932.74	-26.21
1	70	620	0.25	-7.67e-02	7.63e-02	9.56e-02	-0.16	833.88	757.23	815.06	776.04	-32.99
1	70	621	1.13e-02	-1.37	-1.34	-1.61e-02	-0.19	991.86	552.31	988.54	555.63	-38.04
1	70	622	-7.65e-02	-3.13	-3.12	-8.25e-02	-0.13	1184.55	251.44	1182.45	253.54	-44.26
1	70	623	-0.11	-3.28	-3.28	-0.11	6.81e-02	1189.79	223.27	1155.04	258.02	-179.94
1	70	624	-0.16	-1.94	-1.94	-0.16	3.46e-02	1077.42	417.21	1035.28	459.35	-161.38
1	70	625	-5.47e-03	-0.19	-0.11	-8.90e-02	-9.26e-02	944.15	623.70	857.34	710.51	-142.41
1	70	626	1.15	6.83e-02	1.09	0.12	-0.24	947.40	650.31	703.16	894.55	-113.62
1	70	627	1.78	0.37	1.72	0.44	-0.29	1029.61	568.94	583.59	1014.96	-80.84
1	70	628	2.03	0.69	1.99	0.73	-0.23	1088.25	498.04	502.17	1084.12	-49.20
1	70	629	2.08	0.89	2.08	0.90	-8.43e-02	1116.81	457.59	458.21	1116.19	-20.08
1	70	630	2.09	0.92	2.09	0.92	7.74e-02	1120.90	450.33	450.41	1120.81	7.71
1	70	631	2.05	0.77	2.01	0.81	0.21	1101.60	476.46	478.59	1099.48	36.40
1	70	632	1.82	0.53	1.77	0.58	0.25	1054.04	534.94	543.94	1045.04	67.78
1	70	633	1.24	0.31	1.20	0.35	0.19	975.61	616.63	648.03	944.21	101.41
1	70	634	0.25	8.76e-02	0.15	0.18	8.00e-02	919.48	653.81	789.40	783.89	132.80
1	70	635	7.44e-02	-1.33	-1.33	7.33e-02	3.97e-02	1012.53	504.19	959.25	557.47	155.70
1	70	636	-3.75e-02	-3.14	-3.13	-3.78e-02	3.17e-02	1184.74	217.37	1150.17	251.94	179.58
1	70	637	6.29e-02	-3.10	-3.09	5.36e-02	-0.17	1170.13	76.81	997.78	249.16	-398.41
1	70	638	0.26	-1.81	-1.80	0.25	-0.14	1090.31	256.04	887.30	459.05	-357.98
1	70	639	0.66	-0.15	0.14	0.37	-0.39	1044.16	415.94	726.41	733.69	-314.09
1	70	640	1.73	0.22	1.28	0.68	-0.69	1064.87	466.90	595.61	936.16	-245.75
1	70	641	2.17	0.60	1.69	1.09	-0.73	1110.13	452.46	500.95	1061.64	-171.87
1	70	642	2.16	1.04	1.80	1.39	-0.52	1144.42	424.07	439.25	1129.25	-103.44
1	70	643	1.94	1.44	1.84	1.54	-0.20	1161.31	404.28	406.60	1158.99	-41.88
1	70	644	1.91	1.50	1.86	1.55	0.14	1163.68	400.37	400.72	1163.34	16.28
1	70	645	2.13	1.15	1.86	1.43	0.44	1152.29	413.15	421.12	1144.33	76.32
1	70	646	2.14	0.79	1.77	1.17	0.61	1124.13	438.07	469.30	1092.91	143.00
1	70	647	1.71	0.50	1.37	0.85	0.54	1079.35	460.14	549.23	990.26	217.32
1	70	648	0.85	0.11	0.30	0.65	0.32	1040.45	440.51	665.97	814.98	290.57
1	70	649	0.61	-1.40	-1.35	0.56	0.30	1056.59	322.43	816.94	562.08	344.25
1	70	650	0.26	-3.03	-2.97	0.21	0.42	1162.21	71.41	991.92	241.71	395.93
1	70	651	0.79	-3.33	-2.95	0.41	-1.19	1077.49	-191.84	674.38	211.27	-590.91
1	70	652	1.61	-1.88	-1.87	1.61	-0.12	1062.72	-16.92	591.68	454.12	-535.42
1	70	653	1.88	0.12	0.66	1.35	-0.81	1117.81	141.00	476.33	782.47	-463.80
1	70	654	3.07	0.35	1.51	1.91	-1.35	1169.74	247.66	404.16	1013.24	-346.15
1	70	655	3.14	0.68	1.50	2.32	-1.16	1205.66	296.51	361.62	1140.56	-234.42
1	70	656	2.88	1.06	1.45	2.48	-0.75	1223.70	315.31	336.91	1202.10	-138.42
1	70	657	2.60	1.37	1.44	2.54	-0.28	1229.93	321.03	324.44	1226.53	-55.54
1	70	658	2.57	1.43	1.47	2.53	0.20	1230.56	321.62	322.12	1230.06	21.39
1	70	659	2.80	1.20	1.54	2.47	0.65	1226.84	318.02	329.39	1215.47	101.01
1	70	660	3.01	0.91	1.64	2.28	1.00	1214.25	304.31	346.75	1171.81	191.88
1	70	661	2.81	0.71	1.65	1.87	1.05	1185.23	265.76	377.66	1073.33	300.61
1	70	662	1.94	0.31	0.60	1.65	0.62	1134.75	178.93	435.20	878.48	423.40
1	70	663	1.75	-1.73	-1.68	1.70	0.42	1067.49	37.17	536.33	568.32	514.91
1	70	664	1.04	-3.37	-2.89	0.57	1.36	1064.73	-192.54	667.58	204.61	584.46
1	70	665	-9.82e-02	-9.36	-9.25	-0.21	-1.00	705.86	-604.10	33.77	67.98	-654.76
1	70	666	3.54	-0.24	0.77	2.54	1.67	921.97	-354.37	132.81	434.78	-620.05
1	70	667	6.52	-0.16	1.24	5.12	-2.72	1177.45	-179.25	107.83	890.37	-554.14
1	70	668	5.22	0.46	1.19	4.48	-1.72	1256.59	16.67	148.27	1124.99	-381.91
1	70	669	4.52	0.62	1.09	4.05	-1.27	1297.36	132.91	188.55	1241.71	-248.39
1	70	670	3.99	0.79	0.99	3.79	-0.77	1308.48	197.77	216.59	1289.66	-143.35
1	70	671	3.68	0.94	0.97	3.66	-0.28	1308.33	227.96	230.97	1305.32	-56.91
1	70	672	3.66	0.98	1.00	3.65	0.20	1307.75	233.12	233.57	1307.30	21.82

1	70	673	3.93	0.92	1.09	3.76	0.69	1308.76	214.77	224.64	1298.89	103.44
1	70	674	4.40	0.84	1.29	3.94	1.19	1304.42	165.90	201.75	1268.57	198.82
1	70	675	4.85	0.83	1.56	4.12	1.55	1279.43	69.71	161.07	1188.07	319.65
1	70	676	4.40	0.82	1.28	3.94	1.20	1215.56	-112.54	100.09	1002.93	487.01
1	70	677	5.36	-1.75	-1.64	5.25	0.88	1012.43	-310.03	106.50	595.90	614.29
1	70	678	-3.33	-5.84	-5.55	-3.62	0.80	706.91	-598.75	45.59	62.56	652.77
1	70	679	14.70	-16.42	14.57	-16.30	-1.94	218.12	-923.31	-532.09	-173.10	-541.75
1	70	680	9.49	-6.41	-5.13	8.21	4.32	740.85	-1080.30	-609.19	269.74	-797.51
1	70	681	8.38	0.38	0.59	8.16	1.30	1198.96	-554.91	-368.06	1012.12	-541.10
1	70	682	6.70	1.14	1.26	6.58	-0.80	1326.02	-199.98	-129.97	1256.01	-319.27
1	70	683	5.66	0.64	0.76	5.53	-0.77	1372.54	-7.13	21.81	1343.60	-197.71
1	70	684	4.94	0.54	0.60	4.88	-0.49	1382.39	98.26	108.20	1372.45	-112.54
1	70	685	4.58	0.57	0.58	4.57	-0.19	1379.79	148.06	149.66	1378.19	-44.37
1	70	686	4.57	0.60	0.60	4.56	0.11	1378.61	156.93	157.18	1378.36	17.47
1	70	687	4.92	0.63	0.67	4.88	0.42	1381.37	127.55	132.86	1376.05	81.47
1	70	688	5.66	0.77	0.89	5.54	0.77	1379.42	51.20	69.97	1360.65	156.77
1	70	689	6.82	1.34	1.56	6.59	1.08	1354.82	-95.58	-47.93	1307.16	258.54
1	70	690	8.05	1.86	1.90	8.01	0.50	1279.78	-376.16	-246.37	1149.98	445.06
1	70	691	6.46	-6.20	-0.64	0.90	-6.28	943.70	-928.02	-569.47	585.14	736.58
1	70	692	10.71	-8.92	10.67	-8.88	-0.87	286.30	-919.34	-537.65	-95.39	560.80
1	70	693	3.13	-1.51	0.76	0.86	-2.32	740.14	103.66	261.71	582.09	274.98
1	70	694	28.45	-30.65	28.42	-30.63	-1.18	693.77	-1902.35	-1894.96	686.38	-138.29
1	70	695	13.15	6.33	12.36	7.13	-2.18	1270.57	-681.10	-675.26	1264.73	-106.62
1	70	696	6.77	2.38	2.38	6.77	8.34e-03	1354.08	-292.99	-288.99	1350.08	-81.02
1	70	697	5.96	0.77	0.78	5.96	0.14	1415.88	-71.84	-69.39	1413.44	-60.23
1	70	698	5.27	0.49	0.49	5.27	6.20e-02	1432.56	48.89	49.97	1431.48	-38.57
1	70	699	4.91	0.46	0.46	4.91	-1.16e-02	1432.50	105.42	105.61	1432.31	-15.77
1	70	700	4.90	0.48	0.48	4.90	-8.05e-02	1431.65	115.37	115.41	1431.61	7.57
1	70	701	5.25	0.55	0.55	5.25	-0.17	1432.85	81.94	82.65	1432.14	30.86
1	70	702	5.99	0.84	0.85	5.98	-0.28	1426.13	-4.69	-2.68	1424.12	53.59
1	70	703	7.05	2.34	2.36	7.04	-0.28	1390.67	-167.26	-163.55	1386.96	75.90
1	70	704	12.41	7.81	12.03	8.19	1.25	1360.88	-440.65	-435.73	1355.96	94.04
1	70	705	26.98	-13.97	26.98	-13.97	0.15	1020.38	-1235.30	-1226.79	1011.88	138.26
1	70	706	3.52	-4.12	-1.30	0.69	-3.69	454.55	14.25	376.84	91.96	167.86
1	70	707	7.51	-5.50	7.27	-5.26	1.75	514.08	-255.16	-196.06	454.97	-204.87
1	70	708	5.71	2.71	3.89	4.52	-1.47	971.69	11.19	73.15	909.72	-235.97
1	70	709	4.10	0.20	0.34	3.97	-0.71	1174.91	54.91	88.24	1141.58	-190.31
1	70	710	3.23	2.46e-02	6.89e-02	3.19	-0.37	1285.48	68.62	82.61	1271.48	-129.75
1	70	711	2.79	4.08e-02	5.64e-02	2.78	-0.21	1337.72	68.14	72.71	1333.16	-76.00
1	70	712	2.59	5.16e-02	5.41e-02	2.59	-7.91e-02	1358.04	65.29	65.96	1357.37	-29.47
1	70	713	2.57	4.96e-02	5.01e-02	2.57	3.38e-02	1360.62	64.84	64.99	1360.48	13.79
1	70	714	2.72	3.59e-02	4.38e-02	2.71	0.15	1347.90	67.56	70.27	1345.20	58.76
1	70	715	3.09	1.78e-02	4.31e-02	3.07	0.28	1310.53	70.91	80.77	1300.66	110.15
1	70	716	3.92	0.19	0.28	3.83	0.56	1227.62	67.96	93.48	1202.10	170.15
1	70	717	5.88	2.67	3.78	4.77	1.52	1078.64	53.78	106.69	1025.73	226.78
1	70	718	7.83	-2.55	7.50	-2.22	-1.83	730.30	-85.44	-16.18	661.04	227.37
1	70	719	15.86	-13.27	15.69	-13.09	2.24	-431.96	-1086.13	-1045.56	-472.52	157.77
1	70	720	9.28	-8.43	-4.94	5.79	-7.04	485.60	-1220.21	-984.89	250.29	588.24
1	70	721	5.70	-0.32	-0.30	5.69	0.27	1122.02	-629.68	-579.24	1071.58	292.92
1	70	722	6.17	1.02	1.16	6.04	0.82	1330.24	-236.78	-230.21	1323.67	101.25
1	70	723	5.49	0.74	0.83	5.40	0.66	1410.12	-38.25	-37.18	1409.05	39.26
1	70	724	4.94	0.62	0.65	4.90	0.37	1436.66	66.67	66.81	1436.52	13.80
1	70	725	4.64	0.61	0.61	4.64	9.47e-02	1441.65	115.40	115.42	1441.63	4.19
1	70	726	4.62	0.64	0.64	4.61	-0.17	1441.71	123.64	123.64	1441.71	0.34
1	70	727	4.87	0.69	0.75	4.82	-0.47	1439.75	93.89	93.91	1439.72	-5.44
1	70	728	5.38	0.86	1.01	5.23	-0.82	1425.35	16.25	16.58	1425.01	-21.78
1	70	729	6.05	1.22	1.56	5.71	-1.23	1374.45	-137.93	-135.11	1371.63	-65.24
1	70	730	5.85	0.17	0.76	5.26	-1.73	1223.81	-446.47	-418.09	1195.43	-215.86
1	70	731	6.22	-7.54	4.84e-02	-1.37	6.84	802.06	-998.41	-857.56	661.21	-483.48
1	70	732	11.72	-6.69	11.70	-6.67	0.62	-320.58	-1108.25	-1050.82	-378.01	-204.80
1	70	733	1.61	-11.00	-9.43	3.77e-02	4.16	352.88	-607.08	-277.38	23.19	455.85
1	70	734	5.84	-0.47	-0.33	5.70	-0.93	659.83	-356.50	-112.71	416.04	433.98
1	70	735	5.85	-0.55	-0.24	5.54	1.37	1083.48	-244.43	-121.21	960.26	385.29
1	70	736	4.79	0.77	1.15	4.41	1.18	1271.25	-43.72	-6.51	1234.03	218.06
1	70	737	4.41	0.88	1.14	4.15	0.93	1371.42	69.63	80.45	1360.61	118.19
1	70	738	4.13	0.91	1.01	4.03	0.55	1414.41	131.78	134.45	1411.74	58.53
1	70	739	3.96	0.94	0.95	3.95	0.17	1428.63	160.74	161.10	1428.26	21.57
1	70	740	3.92	0.97	0.98	3.91	-0.19	1430.29	165.16	165.19	1430.25	-6.65
1	70	741	4.00	1.00	1.11	3.89	-0.56	1422.21	146.13	147.29	1421.05	-38.34
1	70	742	4.13	1.06	1.35	3.84	-0.89	1393.61	97.14	102.97	1387.78	-86.75
1	70	743	4.05	1.14	1.49	3.69	-0.95	1320.17	0.93	22.99	1298.11	-169.18
1	70	744	3.66	-0.18	-0.15	3.62	0.35	1161.27	-183.94	-105.19	1082.52	-315.80
1	70	745	7.81	-4.22	-4.00	7.58	-1.62	812.97	-347.80	-132.60	597.76	-451.09
1	70	746	-0.58	-7.05	-4.07	-3.55	-3.22	359.12	-579.26	-245.66	25.51	-449.17
1	70	747	1.99	-3.55	-2.31	0.74	2.31	761.74	-86.49	466.15	209.09	404.17
1	70	748	2.89	-2.16	-2.01	2.75	0.85	807.23	62.01	392.60	476.64	370.24

1	70	749	2.37	-7.88e-02	8.05e-02	2.21	0.60	1001.16	149.52	290.32	860.36	316.36
1	70	750	2.87	0.89	1.32	2.44	0.81	1190.98	194.24	242.30	1142.92	213.53
1	70	751	3.12	1.15	1.44	2.83	0.70	1312.41	213.18	228.29	1297.30	127.98
1	70	752	3.17	1.26	1.36	3.07	0.44	1374.54	222.14	226.19	1370.49	68.19
1	70	753	3.18	1.28	1.29	3.16	0.15	1399.55	225.99	226.56	1398.97	25.92
1	70	754	3.15	1.30	1.31	3.14	-0.12	1402.92	226.00	226.07	1402.85	-9.22
1	70	755	3.06	1.33	1.41	2.98	-0.36	1387.30	222.09	224.04	1385.35	-47.66
1	70	756	2.86	1.32	1.51	2.67	-0.50	1341.46	212.93	221.92	1332.46	-100.36
1	70	757	2.37	1.17	1.30	2.24	-0.38	1242.97	194.93	226.23	1211.68	-178.39
1	70	758	2.40	-0.26	-0.24	2.39	-0.20	1070.16	161.14	258.48	972.81	-281.09
1	70	759	2.93	-2.49	-2.29	2.73	-1.02	852.31	96.66	343.76	605.21	-354.49
1	70	760	2.35	-3.38	-1.95	0.92	-2.48	748.58	-82.38	463.03	203.17	-394.64
1	70	761	0.40	-2.54	-2.41	0.27	0.60	863.02	188.76	788.56	263.22	211.33
1	70	762	0.93	-1.50	-1.40	0.83	0.46	800.79	379.15	679.76	500.18	190.75
1	70	763	1.25	0.16	0.22	1.20	0.24	904.45	451.78	525.06	831.17	166.74
1	70	764	1.67	1.16	1.26	1.57	0.20	1112.30	387.90	410.16	1090.04	125.01
1	70	765	2.11	1.50	1.56	2.05	0.19	1258.69	332.23	339.64	1251.28	82.51
1	70	766	2.44	1.52	1.54	2.42	0.13	1337.71	299.39	301.55	1335.55	47.31
1	70	767	2.62	1.48	1.48	2.61	5.54e-02	1371.36	283.67	283.99	1371.04	18.64
1	70	768	2.61	1.47	1.47	2.61	-1.22e-02	1375.97	280.55	280.59	1375.93	-7.19
1	70	769	2.43	1.52	1.52	2.43	-4.84e-02	1354.21	289.21	290.34	1353.09	-34.58
1	70	770	2.09	1.50	1.50	2.09	-2.58e-02	1293.94	312.90	317.60	1289.23	-67.78
1	70	771	1.75	1.11	1.11	1.75	4.22e-02	1172.58	358.34	373.16	1157.75	-108.85
1	70	772	1.57	6.96e-02	7.13e-02	1.57	-5.00e-02	978.15	425.60	471.07	932.68	-151.84
1	70	773	1.42	-1.33	-1.21	1.30	-0.56	797.27	435.52	612.75	620.04	-180.84
1	70	774	0.76	-2.42	-2.11	0.46	-0.93	854.68	183.87	784.53	254.02	-205.26
1	70	775	0.13	-2.51	-2.50	0.11	-0.17	849.20	267.14	849.06	267.28	-9.02
1	70	776	0.51	-1.29	-1.27	0.49	-0.18	737.85	502.16	737.51	502.49	-8.90
1	70	777	1.05	0.22	0.37	0.89	-0.32	827.05	578.41	578.46	827.00	-3.39
1	70	778	1.76	0.89	1.27	1.37	-0.44	1079.04	457.49	457.59	1078.94	7.95
1	70	779	2.13	1.28	1.52	1.89	-0.38	1237.17	379.85	380.08	1236.95	13.99
1	70	780	2.33	1.43	1.50	2.26	-0.23	1320.74	335.78	335.93	1320.58	12.33
1	70	781	2.46	1.43	1.44	2.45	-7.27e-02	1356.29	314.71	314.74	1356.26	5.80
1	70	782	2.47	1.41	1.42	2.47	8.46e-02	1361.07	310.87	310.87	1361.07	-2.61
1	70	783	2.39	1.37	1.44	2.32	0.26	1337.87	323.38	323.49	1337.76	-10.38
1	70	784	2.24	1.19	1.40	2.03	0.42	1274.22	356.32	356.55	1273.99	-14.52
1	70	785	1.96	0.82	1.11	1.66	0.50	1145.56	419.15	419.33	1145.38	-11.33
1	70	786	1.45	0.21	0.33	1.33	0.38	927.93	523.34	523.34	927.93	-0.14
1	70	787	0.91	-0.83	-0.82	0.90	0.14	671.46	621.84	669.25	624.05	10.25
1	70	788	0.24	-2.22	-2.22	0.24	3.74e-03	846.09	259.35	845.79	259.65	13.32
1	70	789	0.59	-2.76	-2.36	0.19	-1.09	746.67	142.65	660.22	229.09	-211.52
1	70	790	1.49	-1.39	-1.25	1.35	-0.62	731.95	328.25	575.06	485.14	-196.78
1	70	791	1.94	-5.79e-02	0.59	1.29	-0.94	902.81	400.14	456.85	846.11	-159.02
1	70	792	2.77	0.39	1.29	1.87	-1.15	1119.43	374.67	386.07	1108.04	-91.41
1	70	793	2.88	0.77	1.29	2.36	-0.91	1256.66	345.92	347.96	1254.62	-43.11
1	70	794	2.77	1.05	1.23	2.59	-0.53	1327.67	325.77	326.07	1327.37	-17.30
1	70	795	2.69	1.17	1.19	2.67	-0.18	1357.17	314.84	314.87	1357.15	-5.21
1	70	796	2.70	1.16	1.17	2.68	0.15	1360.97	312.72	312.72	1360.97	1.53
1	70	797	2.77	1.03	1.17	2.62	0.48	1341.70	319.31	319.41	1341.59	10.49
1	70	798	2.86	0.78	1.18	2.45	0.82	1288.36	334.85	335.80	1287.42	29.95
1	70	799	2.74	0.48	1.13	2.09	1.02	1178.44	359.27	365.27	1172.44	69.86
1	70	800	2.27	4.59e-03	0.51	1.77	0.94	988.26	389.22	421.20	956.28	134.68
1	70	801	1.73	-1.04	-0.77	1.46	0.82	767.55	374.60	521.92	620.23	190.22
1	70	802	0.58	-2.28	-1.99	0.29	0.86	747.18	138.15	658.54	226.79	214.77
1	70	803	-0.35	-6.19	-5.78	-0.76	-1.50	408.59	-193.31	124.16	91.12	-300.50
1	70	804	3.31	0.69	0.77	3.22	-0.46	650.53	-10.46	206.62	433.46	-310.42
1	70	805	4.25	-0.25	0.68	3.32	-1.82	996.08	97.27	170.03	923.32	-245.16
1	70	806	4.51	-1.58e-02	0.91	3.58	-1.83	1187.66	218.32	234.61	1171.37	-124.59
1	70	807	3.83	0.37	0.78	3.42	-1.12	1295.21	268.22	271.83	1291.60	-60.75
1	70	808	3.35	0.67	0.81	3.22	-0.60	1347.28	287.91	288.59	1346.59	-26.87
1	70	809	3.12	0.82	0.83	3.10	-0.20	1367.37	294.51	294.58	1367.30	-8.96
1	70	810	3.10	0.82	0.83	3.09	0.15	1369.66	295.29	295.30	1369.65	2.96
1	70	811	3.29	0.68	0.79	3.18	0.53	1356.59	291.36	291.65	1356.31	17.33
1	70	812	3.69	0.41	0.74	3.36	0.98	1318.71	277.97	279.77	1316.91	43.28
1	70	813	4.21	9.96e-02	0.82	3.49	1.57	1236.42	241.24	250.03	1227.62	93.13
1	70	814	3.43	0.21	0.74	2.90	1.19	1078.76	144.36	184.96	1038.17	190.49
1	70	815	5.83	-1.53	-0.71	5.01	2.32	796.76	13.97	181.70	629.03	321.19
1	70	816	-1.53	-2.78	-2.50	-1.82	0.53	427.81	-179.16	147.30	101.35	302.61
1	70	817	10.48	-3.53	10.47	-3.53	0.21	-390.69	-587.62	-558.72	-419.58	-69.68
1	70	818	5.25	-3.77	0.63	0.85	4.51	609.02	-667.38	-480.10	421.74	-451.63
1	70	819	8.03	-2.16	0.52	5.36	-4.49	1048.71	-149.36	-119.53	1018.88	-186.68
1	70	820	5.90	-0.53	-0.27	5.63	-1.28	1232.25	95.06	99.11	1228.19	-67.82
1	70	821	4.51	0.13	0.24	4.41	-0.66	1323.11	203.57	204.42	1322.26	-30.78
1	70	822	3.77	0.42	0.45	3.73	-0.34	1362.20	252.64	252.79	1362.04	-13.15
1	70	823	3.44	0.54	0.54	3.44	-0.11	1375.44	272.29	272.31	1375.42	-4.34
1	70	824	3.41	0.55	0.55	3.41	9.84e-02	1376.63	275.24	275.24	1376.63	1.27

1	70	825	3.66	0.44	0.47	3.63	0.32	1368.11	263.53	263.59	1368.05	8.23
1	70	826	4.28	0.19	0.28	4.20	0.59	1340.81	229.29	229.71	1340.40	21.51
1	70	827	5.50	-0.37	-0.14	5.27	1.14	1274.14	150.87	153.05	1271.96	49.42
1	70	828	7.83	-2.09	4.90e-02	5.69	4.08	1135.27	-23.45	-6.25	1118.07	140.14
1	70	829	5.26	-2.27	4.44	-1.45	-2.34	853.27	-432.60	-339.43	760.10	333.35
1	70	830	6.66	-1.45	5.65	-0.45	-2.67	-306.39	-635.62	-591.15	-350.85	112.53
1	70	831	34.13	-7.65	34.13	-7.65	-0.59	730.81	-674.96	-672.11	727.96	-63.27
1	70	832	14.71	-4.91e-02	1.83e-02	14.65	1.00	1151.49	-155.80	-155.75	1151.45	7.53
1	70	833	5.92	0.78	0.79	5.91	-0.20	1241.42	83.01	83.01	1241.42	-1.22
1	70	834	4.41	0.29	0.29	4.40	-0.17	1326.50	190.08	190.08	1326.50	1.41
1	70	835	3.78	0.37	0.38	3.77	-0.11	1363.41	242.65	242.65	1363.41	1.65
1	70	836	3.49	0.46	0.46	3.49	-3.59e-02	1375.31	264.37	264.37	1375.31	0.72
1	70	837	3.46	0.47	0.47	3.46	5.20e-02	1376.30	267.67	267.67	1376.30	-0.61
1	70	838	3.67	0.39	0.40	3.67	0.13	1368.75	254.72	254.72	1368.74	-1.63
1	70	839	4.20	0.31	0.32	4.19	0.16	1343.41	218.05	218.05	1343.41	-1.59
1	70	840	5.46	0.69	0.70	5.45	0.14	1282.14	140.75	140.75	1282.14	0.40
1	70	841	12.34	0.42	0.50	12.26	-1.02	1215.89	-38.83	-38.80	1215.85	-7.00
1	70	842	24.69	5.72	24.67	5.74	-0.59	940.05	-214.77	-214.08	939.36	28.27
1	70	843	10.15	-2.10	7.80	0.25	-4.82	-652.18	-949.66	-944.14	-657.70	40.13
1	70	844	5.04	-5.55	1.25	-1.75	-5.08	641.06	-821.70	-674.34	493.71	440.26
1	70	845	7.34	-2.81	0.50	4.03	4.76	1043.21	-209.61	-189.45	1023.05	157.64
1	70	846	5.58	-0.51	-0.31	5.38	1.09	1234.74	62.38	64.72	1232.40	52.33
1	70	847	4.39	0.19	0.21	4.37	0.30	1323.80	183.38	183.93	1323.25	25.20
1	70	848	3.76	0.38	0.38	3.75	6.14e-02	1360.91	238.02	238.15	1360.78	12.22
1	70	849	3.48	0.45	0.45	3.48	1.43e-02	1372.97	260.12	260.14	1372.95	4.30
1	70	850	3.45	0.45	0.45	3.45	2.09e-02	1374.03	263.44	263.44	1374.02	-1.96
1	70	851	3.65	0.40	0.40	3.65	-1.31e-02	1366.46	250.10	250.16	1366.39	-8.72
1	70	852	4.16	0.25	0.26	4.15	-0.21	1341.03	211.47	211.78	1340.73	-18.63
1	70	853	5.18	-0.31	-0.17	5.04	-0.87	1276.18	123.03	124.31	1274.91	-38.28
1	70	854	6.73	-2.20	0.14	4.39	-3.93	1132.01	-72.88	-61.20	1120.32	-118.08
1	70	855	4.71	-3.39	4.42	-3.10	1.50	871.81	-521.13	-463.00	813.68	-278.56
1	70	856	9.24	-4.93	3.57	0.74	6.94	-559.94	-1001.18	-980.23	-580.89	-93.84
1	70	857	1.03	-6.36	-5.15	-0.18	2.73	314.27	-306.74	-44.38	51.91	306.75
1	70	858	5.17	-6.62e-02	8.21e-02	5.02	0.87	604.53	-162.77	56.66	385.09	346.73
1	70	859	3.06	0.10	0.18	2.98	0.47	993.50	-29.40	40.46	923.64	258.03
1	70	860	3.87	0.49	0.93	3.43	1.13	1192.89	137.23	153.91	1176.21	131.65
1	70	861	3.56	0.55	0.67	3.44	0.59	1295.24	212.65	216.86	1291.03	67.38
1	70	862	3.36	0.53	0.56	3.33	0.25	1341.75	246.45	247.40	1340.80	32.27
1	70	863	3.26	0.51	0.51	3.25	8.66e-02	1358.49	259.77	259.89	1358.37	11.26
1	70	864	3.24	0.51	0.51	3.24	-1.60e-02	1360.39	261.65	261.67	1360.37	-4.67
1	70	865	3.29	0.54	0.55	3.28	-0.16	1350.02	253.38	253.84	1349.55	-22.53
1	70	866	3.42	0.59	0.66	3.35	-0.44	1317.43	228.95	231.27	1315.11	-50.20
1	70	867	3.59	0.60	0.89	3.30	-0.89	1241.00	171.52	180.96	1231.56	-100.02
1	70	868	2.57	0.48	0.49	2.56	-0.14	1080.04	39.19	77.99	1041.24	-197.19
1	70	869	6.54	-2.17	-1.57	5.93	-2.22	780.56	-135.31	35.68	609.57	-356.88
1	70	870	0.41	-2.95	-1.69	-0.85	-1.63	334.56	-287.65	-15.77	62.68	-308.62
1	70	871	1.11	-2.38	-1.65	0.37	1.42	653.84	61.98	510.50	205.32	253.55
1	70	872	2.09	-1.17	-0.97	1.90	0.77	689.77	208.08	439.19	458.66	240.65
1	70	873	1.74	0.41	0.52	1.62	0.38	903.18	270.13	340.84	832.47	199.41
1	70	874	2.19	1.03	1.17	2.05	0.37	1120.74	275.27	293.60	1102.42	123.11
1	70	875	2.62	0.94	0.98	2.57	0.27	1249.88	272.42	276.96	1245.35	66.44
1	70	876	2.84	0.73	0.74	2.83	0.14	1312.87	268.14	269.14	1311.87	32.21
1	70	877	2.93	0.61	0.61	2.93	5.65e-02	1337.63	264.92	265.04	1337.51	11.22
1	70	878	2.93	0.60	0.60	2.93	8.73e-03	1340.85	264.21	264.23	1340.83	-4.71
1	70	879	2.85	0.71	0.71	2.85	-5.40e-02	1325.37	266.15	266.64	1324.88	-22.78
1	70	880	2.64	0.90	0.92	2.62	-0.16	1279.78	269.44	272.00	1277.23	-50.74
1	70	881	2.23	1.04	1.09	2.18	-0.23	1179.06	272.04	282.80	1168.30	-98.18
1	70	882	2.04	0.45	0.53	1.96	-0.35	992.82	272.49	315.25	950.07	-170.21
1	70	883	2.10	-0.90	-0.64	1.84	-0.86	750.78	244.10	394.65	600.23	-231.55
1	70	884	1.15	-1.99	-1.33	0.49	-1.28	655.08	60.28	510.52	204.84	-255.13
1	70	885	0.22	-1.70	-1.67	0.20	0.22	720.75	230.49	708.96	242.28	75.11
1	70	886	0.96	-0.59	-0.57	0.94	0.18	639.37	450.31	611.66	478.03	66.87
1	70	887	1.31	0.73	0.80	1.24	-0.19	819.98	461.60	471.35	810.22	58.31
1	70	888	1.96	1.02	1.18	1.80	-0.35	1066.14	368.02	370.50	1063.66	41.54
1	70	889	2.35	0.95	1.00	2.30	-0.25	1215.01	308.42	309.02	1214.40	23.50
1	70	890	2.61	0.74	0.75	2.60	-0.13	1290.38	274.21	274.33	1290.27	10.93
1	70	891	2.73	0.60	0.60	2.73	-3.31e-02	1321.31	257.47	257.48	1321.30	3.55
1	70	892	2.75	0.58	0.58	2.75	6.01e-02	1325.50	254.77	254.78	1325.49	-1.55
1	70	893	2.67	0.68	0.70	2.65	0.16	1305.94	265.56	265.62	1305.88	-7.77
1	70	894	2.46	0.87	0.92	2.41	0.28	1250.50	291.81	292.16	1250.16	-18.30
1	70	895	2.11	1.00	1.11	2.00	0.34	1133.24	339.59	341.09	1131.75	-34.38
1	70	896	1.64	0.78	0.82	1.60	0.19	923.36	420.03	425.38	918.01	-51.65
1	70	897	1.25	-0.19	-0.17	1.23	-0.15	647.65	509.08	551.94	604.79	-64.05
1	70	898	0.37	-1.55	-1.52	0.34	-0.23	719.80	225.62	707.75	237.67	-76.22
1	70	899	1.08	-2.96	-2.93	1.06	-0.33	655.46	195.18	633.74	216.90	-97.58
1	70	900	1.22	0.43	0.45	1.19	-0.13	638.74	402.57	572.77	468.55	-105.97

1	70	901	2.83	0.37	1.06	2.14	-1.11	842.87	416.36	438.12	821.11	-93.85
1	70	902	2.88	0.52	1.03	2.37	-0.97	1069.93	341.57	346.41	1065.09	-59.22
1	70	903	2.77	0.56	0.77	2.56	-0.65	1212.55	281.97	283.42	1211.10	-36.68
1	70	904	2.71	0.50	0.56	2.66	-0.34	1286.92	243.40	243.82	1286.50	-21.07
1	70	905	2.70	0.44	0.45	2.70	-0.11	1318.17	223.43	223.50	1318.11	-8.30
1	70	906	2.72	0.43	0.43	2.71	9.11e-02	1322.39	220.36	220.37	1322.38	3.64
1	70	907	2.75	0.46	0.51	2.70	0.32	1302.37	233.93	234.17	1302.14	15.74
1	70	908	2.81	0.53	0.71	2.64	0.61	1247.13	265.32	266.20	1246.25	29.43
1	70	909	11.44	-3.61	-2.60	10.43	3.77	987.36	-1103.95	-732.46	615.86	799.32
1	70	910	-0.98	-5.06	-2.02	-4.02	1.78	325.31	-1426.19	-1000.13	-100.75	751.47
1	70	911	3.82	-32.78	-23.81	-5.16	15.75	335.86	-554.46	-530.51	311.91	144.05
1	70	912	21.05	-23.05	20.84	-22.84	3.02	989.26	-1905.94	-1905.91	989.22	-9.90
1	70	913	0.94	-9.56	-8.89	0.27	-2.57	875.01	-2569.85	-2568.98	874.14	-54.62
1	70	914	5.14	-14.26	-9.72	0.60	-8.22	851.75	-2463.32	-2461.28	849.71	-82.18
1	70	915	8.19	-15.85	7.77	-15.43	-3.15	692.80	-1080.45	-1080.45	692.79	3.25
1	70	916	0.55	-15.81	-12.48	-2.77	-6.58	206.37	-264.72	-257.88	199.54	-56.35
1	70	917	7.60	0.40	3.81	4.20	3.60	199.12	-216.90	49.52	-67.30	-199.64
1	70	918	0.61	-6.44	-5.09	-0.74	-2.78	911.94	-143.30	845.08	-76.44	-257.08
1	70	919	-0.77	-6.69	-6.69	-0.78	4.85e-02	1256.16	-66.00	1236.56	-46.40	-159.79
1	70	920	-0.20	-6.06	-6.06	-0.21	8.73e-02	1402.18	-41.68	1398.70	-38.20	-70.84
1	70	921	-8.04e-02	-5.56	-5.56	-8.05e-02	2.56e-02	1429.24	-36.84	1428.98	-36.58	19.25
1	70	922	-7.74e-02	-5.26	-5.26	-7.75e-02	-2.34e-02	1355.47	-46.11	1346.81	-37.44	109.84
1	70	923	-0.15	-4.98	-4.98	-0.15	-5.44e-02	1170.25	-72.95	1137.50	-40.20	199.12
1	70	924	-0.46	-4.32	-4.32	-0.46	-1.81e-02	840.62	-135.72	750.67	-45.77	282.37
1	70	925	-1.29	-2.51	-2.21	-1.60	0.53	365.47	-346.49	78.90	-59.91	349.15
1	70	926	38.77	-3.63	26.62	8.52	-19.17	-181.57	-3255.99	-3247.40	-190.16	-162.29
1	70	927	4.44	-5.92	-5.30	3.82	-2.46	-103.37	-218.43	-218.34	-103.47	3.24
1	70	928	34.11	-31.05	16.63	-13.58	28.87	-572.10	-3015.07	-2986.71	-600.45	261.65
1	70	929	11.55	-3.75	2.40	5.40	-7.50	189.41	-1031.30	-834.39	-7.50	-449.00
1	70	930	-0.77	-3.82	-3.70	-0.89	-0.59	438.48	-272.12	220.37	-54.00	-327.75
1	70	931	-0.36	-5.02	-5.02	-0.36	2.17e-02	884.59	-114.04	816.50	-45.95	-251.70
1	70	932	-0.13	-5.19	-5.19	-0.13	5.80e-02	1164.66	-63.58	1142.42	-41.34	-163.78
1	70	933	-7.92e-02	-5.07	-5.07	-7.94e-02	2.97e-02	1294.21	-42.85	1290.42	-39.06	-71.10
1	70	934	-7.94e-02	-4.92	-4.92	-7.94e-02	-5.50e-03	1301.24	-38.83	1300.88	-38.46	22.06
1	70	935	-0.14	-4.71	-4.71	-0.14	-3.51e-02	1189.71	-50.06	1179.26	-39.61	113.36
1	70	936	-0.41	-4.20	-4.20	-0.41	-2.00e-02	937.32	-83.92	896.92	-43.52	199.07
1	70	937	-1.37	-2.66	-2.54	-1.50	0.38	506.05	-187.39	374.88	-56.22	271.58
1	70	938	6.85	-4.73	3.41	-1.29	5.29	72.79	-775.07	-616.21	-86.07	330.84
1	70	939	29.96	2.26	20.49	11.73	-13.14	-94.82	-2337.09	-2336.00	-95.90	-49.38
1	70	940	25.44	-19.88	11.96	-6.40	20.72	-407.65	-2117.14	-2099.15	-425.64	174.45
1	70	941	7.83	-3.64	0.94	3.25	-5.62	158.15	-532.25	-343.30	-30.80	-307.82
1	70	942	-0.76	-4.45	-4.39	-0.82	-0.46	557.02	-118.15	492.70	-53.82	-198.23
1	70	943	-0.33	-5.77	-5.77	-0.33	-1.76e-02	934.08	-61.07	920.93	-47.92	-113.62
1	70	944	-0.18	-6.08	-6.08	-0.18	9.27e-03	1082.52	-46.47	1082.19	-46.14	-19.13
1	70	945	-0.24	-5.70	-5.70	-0.24	6.25e-02	1025.89	-52.34	1020.38	-46.84	76.86
1	70	946	-3.99e-02	-3.88	-3.77	-0.16	0.67	751.99	-82.77	716.54	-47.32	168.32
1	70	947	11.42	-0.60	3.85	6.98	5.80	370.66	-253.00	96.76	20.90	309.52
1	70	948	18.90	-32.78	10.85	-24.73	-18.74	-662.73	-1205.35	-1195.34	-672.74	-73.01
1	70	949	-0.43	-3.77	-3.37	-0.83	1.09	690.65	-71.82	686.66	-67.84	54.98
1	70	950	30.25	-21.97	20.56	-12.28	20.30	-472.30	-1900.84	-1893.31	-479.84	103.47
1	70	951	12.38	-1.23	6.98	4.17	-6.66	256.91	-561.78	-287.85	-17.03	-386.30
1	70	952	-0.52	-2.23	-1.91	-0.84	-0.66	618.75	-157.11	510.19	-48.55	-269.15
1	70	953	-0.35	-4.35	-4.35	-0.35	-2.92e-02	991.62	-77.04	956.07	-41.50	-191.62
1	70	954	-0.13	-5.07	-5.07	-0.13	2.32e-02	1199.57	-47.22	1190.39	-38.04	-106.54
1	70	955	-8.60e-02	-5.32	-5.32	-8.60e-02	1.60e-04	1279.44	-37.12	1279.20	-36.88	-17.82
1	70	956	-0.11	-5.40	-5.40	-0.11	-2.66e-02	1249.28	-41.39	1245.33	-37.44	71.32
1	70	957	-0.23	-5.16	-5.16	-0.23	9.98e-03	1100.36	-61.90	1078.41	-39.95	158.21
1	70	958	-0.17	-3.72	-3.63	-0.26	0.58	798.69	-112.15	729.61	-43.07	241.14
1	70	959	11.29	-1.16	3.60	6.53	6.05	436.13	-320.92	98.15	17.07	376.35
1	70	960	19.94	-30.14	12.54	-22.74	-17.76	-630.39	-1157.68	-1157.67	-630.41	-2.98
1	70	961	3.60	0.75	1.00	3.35	-0.80	223.54	-62.11	206.63	-45.19	67.42
1	70	962	27.47	-21.42	18.42	-12.37	18.98	-452.84	-1792.34	-1770.99	-474.19	167.77
1	70	963	11.75	-0.13	7.49	4.13	-5.69	182.60	-417.82	-218.60	-16.62	-282.71
1	70	964	-0.22	-1.82	-1.36	-0.68	-0.72	564.24	-98.63	518.09	-52.48	-168.71
1	70	965	-0.37	-4.10	-4.10	-0.37	-8.94e-02	877.24	-56.60	869.61	-48.98	-84.03
1	70	966	-0.32	-4.75	-4.75	-0.32	2.54e-03	933.87	-48.47	933.82	-48.42	6.99
1	70	967	-0.68	-4.16	-4.14	-0.70	0.27	735.48	-63.70	724.26	-52.48	94.00
1	70	968	3.89	-3.35	-0.61	1.15	3.51	263.04	-161.44	152.66	-51.05	186.20
1	70	969	15.07	-8.97	6.99	-0.89	-11.35	-227.30	-1156.41	-1148.92	-234.79	-83.07
1	70	970	16.73	2.96	10.83	8.86	6.81	-42.48	-1344.02	-1342.89	-43.60	38.21
1	70	971	3.13	-3.49	0.93	-1.30	-3.12	82.90	-245.81	-81.51	-81.39	-164.35
1	70	972	-1.05	-3.19	-3.16	-1.09	-0.28	581.71	-73.66	563.30	-55.26	-108.28
1	70	973	-0.68	-4.30	-4.30	-0.68	1.38e-02	784.64	-52.25	783.56	-51.17	-29.96
1	70	974	9.19	-4.52	4.77	-0.10	6.41	59.84	-1287.05	-1150.31	-76.90	406.79
1	70	975	3.39	-34.87	-26.08	-5.40	-16.10	336.84	-543.58	-522.52	315.78	-134.54
1	70	976	8.63	-18.18	8.06	-17.61	3.87	711.93	-1064.84	-1064.84	711.93	-3.27

1	70	977	5.62	-14.15	-8.64	0.12	8.86	860.79	-2465.10	-2462.85	858.54	86.56
1	70	978	21.76	-26.64	21.41	-26.28	-4.12	1012.24	-1877.79	-1877.75	1012.19	11.24
1	70	979	37.38	-28.54	36.79	-27.95	-6.23	1269.87	-2610.77	-2610.64	1269.74	22.63
1	70	980	1.09	-9.29	-8.00	-0.20	3.42	883.80	-2569.83	-2568.62	882.59	64.62
1	70	981	0.44	-16.93	-13.62	-2.87	6.82	208.28	-263.66	-257.64	202.26	52.96
1	70	982	6.33	-5.01	-0.25	1.57	-5.60	188.76	-235.65	72.38	-119.28	189.33
1	70	983	1.10	-5.73	-4.39	-0.24	2.71	923.46	-132.64	856.83	-66.01	256.76
1	70	984	-0.53	-6.65	-6.65	-0.53	-5.32e-02	1257.49	-64.37	1238.00	-44.87	159.35
1	70	985	-0.16	-6.05	-6.05	-0.16	-7.94e-02	1403.15	-41.62	1399.69	-38.16	70.68
1	70	986	-7.36e-02	-5.61	-5.61	-7.36e-02	-2.03e-02	1429.90	-36.98	1429.64	-36.71	-19.63
1	70	987	-7.58e-02	-5.42	-5.42	-7.60e-02	3.07e-02	1355.84	-46.35	1347.09	-37.60	-110.43
1	70	988	-0.15	-5.32	-5.32	-0.15	6.53e-02	1170.12	-73.37	1137.12	-40.37	-199.86
1	70	989	-0.40	-4.95	-4.95	-0.40	1.40e-02	839.00	-136.24	748.53	-45.77	-282.91
1	70	990	-0.90	-3.15	-2.97	-1.08	-0.61	358.67	-345.96	70.39	-57.68	-346.44
1	70	991	11.92	-3.45	8.64	-0.17	-6.29	58.10	-1283.40	-1156.38	-68.92	-392.76
1	70	992	41.19	-4.83	24.97	11.39	21.99	-205.38	-3245.87	-3235.71	-215.54	175.44
1	70	993	36.11	-33.84	15.05	-12.78	-32.08	-606.54	-3012.97	-2977.53	-641.98	-289.87
1	70	994	13.29	-1.78	5.90	5.60	7.53	186.57	-1026.53	-842.74	2.78	434.94
1	70	995	-0.21	-4.80	-4.72	-0.29	0.62	432.31	-270.64	212.94	-51.27	325.70
1	70	996	-0.28	-5.73	-5.73	-0.28	-2.27e-02	883.52	-114.50	814.95	-45.93	252.46
1	70	997	-0.13	-5.58	-5.58	-0.13	-6.79e-02	1164.71	-63.97	1142.28	-41.55	164.47
1	70	998	-7.63e-02	-5.31	-5.31	-7.66e-02	-3.36e-02	1294.46	-43.08	1290.63	-39.25	71.50
1	70	999	-7.66e-02	-5.13	-5.13	-7.66e-02	7.37e-03	1301.39	-39.00	1301.03	-38.64	-21.94
1	70	1000	-0.13	-4.99	-4.99	-0.13	4.14e-02	1189.46	-50.26	1178.99	-39.79	-113.45
1	70	1001	-0.36	-4.65	-4.65	-0.36	1.53e-02	935.79	-84.03	895.32	-43.55	-199.09
1	70	1002	-0.99	-3.13	-3.04	-1.09	-0.44	499.30	-185.36	368.46	-54.52	-269.19
1	70	1003	9.05	-3.89	6.47	-1.31	-5.17	69.35	-768.34	-619.36	-79.63	-320.31
1	70	1004	32.03	0.62	18.71	13.94	15.52	-116.87	-2329.08	-2327.48	-118.47	59.46
1	70	1005	27.30	-21.75	11.05	-5.50	-23.09	-432.41	-2113.05	-2090.38	-455.08	-193.85
1	70	1006	9.20	-2.14	3.70	3.36	5.66	151.55	-525.12	-349.70	-23.87	296.53
1	70	1007	-0.32	-5.24	-5.19	-0.37	0.49	551.96	-115.57	488.31	-51.92	196.05
1	70	1008	-0.27	-6.45	-6.45	-0.27	2.28e-02	935.00	-61.07	921.95	-48.03	113.25
1	70	1009	-0.16	-6.73	-6.73	-0.16	6.60e-04	1085.81	-46.77	1085.52	-46.48	18.11
1	70	1010	-0.19	-6.71	-6.71	-0.19	-2.15e-02	1031.16	-52.92	1025.37	-47.13	-79.04
1	70	1011	0.19	-5.68	-5.64	0.14	-0.50	757.67	-82.86	721.43	-46.62	-170.73
1	70	1012	11.71	-1.00	4.18	6.52	-6.25	362.79	-250.89	94.65	17.24	-304.39
1	70	1013	20.25	-32.91	11.85	-24.51	19.39	-665.71	-1226.64	-1216.07	-676.28	76.25
1	70	1014	2.93	-1.65	-0.93	2.21	1.66	228.33	-82.31	214.57	-68.56	-63.91
1	70	1015	30.88	-23.87	19.91	-12.90	-21.91	-492.11	-1910.96	-1901.18	-501.88	-117.36
1	70	1016	13.41	-1.08	8.43	3.90	6.88	250.05	-556.22	-292.42	-13.76	378.29
1	70	1017	-0.29	-3.76	-3.67	-0.38	0.56	621.21	-156.66	511.46	-46.92	270.78
1	70	1018	-0.27	-5.32	-5.32	-0.27	-5.00e-03	996.84	-78.00	960.55	-41.71	194.14
1	70	1019	-0.12	-5.58	-5.58	-0.12	-3.99e-02	1204.47	-47.76	1195.08	-38.37	108.03
1	70	1020	-7.72e-02	-5.65	-5.65	-7.72e-02	-2.76e-03	1284.21	-37.43	1283.95	-37.17	18.33
1	70	1021	-9.44e-02	-5.80	-5.80	-9.46e-02	3.81e-02	1254.57	-41.73	1250.58	-37.74	-71.81
1	70	1022	-0.16	-5.92	-5.92	-0.16	2.59e-02	1106.83	-62.42	1084.55	-40.13	-159.88
1	70	1023	0.12	-5.22	-5.18	8.18e-02	-0.43	805.25	-111.50	735.60	-41.85	-242.89
1	70	1024	11.74	-1.30	4.13	6.30	-6.43	433.21	-314.20	101.34	17.68	-371.36
1	70	1025	20.43	-31.55	12.30	-23.42	18.88	-650.40	-1167.01	-1166.85	-650.56	8.94
1	70	1026	28.98	-21.73	19.37	-12.12	-19.88	-456.70	-1810.22	-1786.90	-480.02	-176.12
1	70	1027	12.60	-0.41	8.56	3.63	6.02	171.12	-417.60	-228.94	-17.54	274.73
1	70	1028	-0.18	-3.56	-3.45	-0.29	0.60	565.77	-98.70	518.55	-51.48	170.73
1	70	1029	-0.30	-5.37	-5.37	-0.30	5.09e-02	881.16	-57.40	873.08	-49.32	86.73
1	70	1030	-0.27	-5.60	-5.60	-0.27	-2.38e-02	936.37	-48.71	936.35	-48.68	-5.23
1	70	1031	-0.39	-4.85	-4.83	-0.41	-0.29	734.07	-62.10	723.38	-51.41	-91.66
1	70	1032	4.62	-2.42	0.93	1.27	-3.52	257.12	-152.11	151.14	-46.13	-179.27
1	70	1033	16.04	-10.67	5.89	-0.52	12.97	-247.80	-1152.90	-1142.26	-258.43	97.53
1	70	1034	18.42	2.23	10.18	10.47	-8.09	-54.86	-1337.80	-1336.41	-56.25	-42.22
1	70	1035	4.48	-3.01	2.85	-1.38	3.09	76.89	-239.28	-84.13	-78.26	158.05
1	70	1036	-0.79	-3.59	-3.56	-0.83	0.31	578.11	-72.34	560.11	-54.34	106.70
1	70	1037	-0.54	-4.76	-4.76	-0.54	1.20e-02	784.74	-51.65	783.68	-50.59	29.80
1	70	1038	-0.29	-3.79	-3.39	-0.68	-1.10	695.22	-68.26	691.20	-64.23	-55.30
1	70	1039	11.04	-1.94	-1.60	10.71	-2.06	398.16	-424.29	248.45	-274.58	317.36
1	70	1040	5.41	-3.41	-1.56	3.55	3.60	295.98	-326.31	208.85	-239.17	-215.95
1	70	1041	34.38	6.84	15.07	26.14	12.61	389.72	3.59	260.86	132.45	182.08
1	70	1042	6.98	-4.10	-4.06	6.94	0.67	959.82	-130.30	-99.49	929.00	180.68
1	70	1043	5.05	-0.78	-0.76	5.03	-0.35	1282.31	-54.74	-32.18	1259.75	172.20
1	70	1044	4.91	-0.13	-0.13	4.90	-0.12	1399.90	-32.57	-21.54	1388.87	125.22
1	70	1045	4.60	-3.91e-02	-3.86e-02	4.60	-4.78e-02	1443.60	-21.45	-17.38	1439.53	77.18
1	70	1046	4.35	-2.67e-02	-2.66e-02	4.35	-1.44e-02	1455.84	-15.93	-15.28	1455.19	30.95
1	70	1047	4.27	-2.60e-02	-2.60e-02	4.27	1.06e-02	1456.99	-15.09	-14.95	1456.85	-14.20
1	70	1048	4.35	-3.70e-02	-3.65e-02	4.35	4.39e-02	1450.33	-18.90	-16.44	1447.87	-60.04
1	70	1049	4.48	-0.12	-0.12	4.48	0.12	1422.61	-28.23	-20.14	1414.51	-108.07
1	70	1050	4.41	-0.77	-0.74	4.38	0.36	1340.70	-48.94	-30.79	1322.55	-157.77
1	70	1051	5.21	-4.49	-4.49	5.21	9.14e-02	1088.49	-126.65	-99.69	1061.53	-178.97
1	70	1052	28.25	8.78	17.72	19.31	-9.71	625.75	149.65	250.34	525.06	-194.42

1	70	1053	6.91	-11.78	-9.70	4.83	-5.89	-153.39	-328.03	-323.34	-158.08	-28.25
1	70	1054	8.87	-13.12	-11.83	7.58	5.17	-113.02	-360.32	-359.77	-113.57	11.68
1	70	1055	3.37	-1.69	-1.61	3.29	-0.62	269.28	-202.85	179.37	-112.94	-185.38
1	70	1056	0.36	-1.80	-1.74	0.30	-0.34	200.10	-153.49	146.14	-99.52	127.16
1	70	1057	20.51	4.19	10.24	14.47	-7.88	299.55	80.36	155.87	224.04	-104.16
1	70	1058	4.79	-2.66	-2.66	4.79	-2.20e-02	878.98	-74.82	-68.07	872.24	-79.92
1	70	1059	3.22	-0.43	-0.41	3.21	0.21	1167.94	-26.16	-20.83	1162.61	-79.59
1	70	1060	2.77	-6.33e-02	-6.10e-02	2.77	8.07e-02	1295.27	-14.54	-12.28	1293.01	-54.29
1	70	1061	2.44	-1.17e-02	-1.11e-02	2.44	3.76e-02	1352.63	-9.10	-8.37	1351.90	-31.52
1	70	1062	2.25	-2.88e-03	-2.79e-03	2.25	1.40e-02	1374.15	-6.46	-6.35	1374.05	-12.11
1	70	1063	2.22	-2.05e-03	-2.03e-03	2.22	-7.25e-03	1376.88	-6.06	-6.03	1376.86	5.71
1	70	1064	2.32	-9.35e-03	-8.89e-03	2.32	-3.27e-02	1363.64	-7.87	-7.43	1363.20	24.38
1	70	1065	2.53	-6.17e-02	-5.91e-02	2.53	-8.15e-02	1323.36	-12.42	-10.82	1321.76	46.17
1	70	1066	2.76	-0.46	-0.44	2.74	-0.25	1229.31	-23.64	-19.51	1225.18	71.82
1	70	1067	3.54	-3.31	-3.27	3.50	-0.54	999.90	-78.07	-72.44	994.26	77.74
1	70	1068	19.14	5.46	12.97	11.63	6.81	567.01	137.68	174.36	530.33	120.00
1	70	1069	3.57	-5.49	-4.49	2.56	2.84	-123.02	-203.07	-202.59	-123.50	6.18
1	70	1070	36.37	-24.14	35.97	-23.74	4.86	1242.11	-2646.61	-2646.48	1241.98	-22.82
1	72	1	2.19	-2.62	1.87	-2.30	-1.19	-448.48	-1302.14	-935.09	-815.53	422.62
1	72	3	1.19	-1.29	1.11	-1.22	0.42	-425.60	-1278.21	-925.82	-777.99	-419.85
1	72	9	-0.22	-9.01	-2.07	-7.16	-3.58	-1182.26	-2160.13	-2158.97	-1183.41	33.58
1	72	11	5.49	-7.32	-2.56	0.73	-6.19	-1522.16	-3246.02	-3241.02	-1527.17	92.76
1	72	12	6.18	-6.87	4.89	-5.58	-3.90	-1636.30	-2971.80	-2971.27	-1636.83	-26.61
1	72	13	8.12	-5.44	7.08	-4.41	3.59	-1587.37	-3038.75	-3025.64	-1600.48	-137.33
1	72	15	7.91	-5.58	7.01	-4.68	3.37	-1573.53	-2937.04	-2936.12	-1574.45	35.37
1	72	17	3.08	-4.48	-1.82	0.42	3.61	-1113.95	-2126.41	-2126.31	-1114.05	-10.02
1	72	21	0.20	-14.26	-2.77	-11.29	5.84	-1595.83	-3284.79	-3274.26	-1606.36	-132.95
1	72	22	-0.11	-16.68	-3.09	-13.71	6.36	-2067.96	-4347.25	-4343.78	-2071.44	-88.88
1	72	23	6.21	-7.07	4.73	-5.58	-4.18	-1646.74	-3077.38	-3060.82	-1663.29	153.02
1	72	24	2.47	0.48	0.86	2.09	0.78	1004.93	286.78	290.79	1000.92	53.47
1	72	25	0.81	-0.98	0.53	-0.70	0.65	-378.62	-763.62	-615.11	-527.13	-187.41
1	72	27	0.18	-0.55	0.16	-0.52	-0.12	-362.41	-742.77	-602.93	-502.26	183.40
1	72	29	7.35	-7.10	3.51	-3.27	-6.38	671.67	-288.10	359.70	23.88	449.55
1	72	30	6.91	-2.78	-1.60	5.73	-3.17	919.53	-300.81	272.11	346.61	609.03
1	72	31	12.31	-9.66	11.75	-9.10	-3.46	590.30	-483.75	-295.30	401.84	408.53
1	72	32	5.75	1.27	2.19	4.83	1.81	1098.77	10.20	335.80	773.17	498.42
1	72	33	6.65	4.52	5.28	5.88	1.02	1069.01	-135.63	82.26	851.12	463.68
1	72	34	4.85	0.20	0.72	4.33	1.46	1144.95	169.88	337.36	977.47	367.77
1	72	35	5.39	0.21	0.28	5.32	0.61	1214.59	-22.82	125.98	1065.79	402.47
1	72	36	4.00	-1.87e-02	0.22	3.76	0.95	1164.88	242.54	322.89	1084.53	260.11
1	72	37	4.30	-6.97e-02	-4.26e-02	4.27	0.34	1255.81	58.11	135.45	1178.48	294.35
1	72	38	3.41	8.41e-02	0.18	3.32	0.55	1163.55	275.53	305.21	1133.87	159.61
1	72	39	3.75	-2.67e-02	-1.17e-02	3.73	0.24	1255.89	103.54	133.26	1226.17	182.66
1	72	40	3.11	0.18	0.20	3.09	0.23	1157.23	288.49	293.27	1152.44	64.28
1	72	41	3.48	1.08e-02	1.49e-02	3.48	0.12	1247.27	125.00	129.86	1242.41	73.68
1	72	42	3.08	0.20	0.20	3.07	-7.29e-02	1155.63	290.62	291.57	1154.68	-28.69
1	72	43	3.43	1.49e-02	1.49e-02	3.43	-1.15e-02	1245.24	128.42	129.43	1244.24	-33.52
1	72	44	3.31	0.13	0.18	3.26	-0.39	1160.43	283.49	301.00	1142.92	-122.67
1	72	45	3.60	-1.62e-02	-1.17e-02	3.59	-0.13	1252.35	114.75	132.72	1234.38	-141.85
1	72	46	3.85	4.49e-02	0.22	3.67	-0.80	1165.18	261.61	319.17	1107.62	-220.66
1	72	47	4.04	-6.05e-02	-4.83e-02	4.03	-0.22	1258.82	80.40	137.71	1201.51	-253.47
1	72	48	4.72	0.25	0.72	4.25	-1.38	1156.46	211.16	340.18	1027.44	-324.53
1	72	49	5.04	0.17	0.21	4.99	-0.46	1240.19	17.65	139.08	1118.76	-365.66
1	72	50	6.09	1.06	2.31	4.83	-2.18	1128.69	98.18	353.24	873.63	-444.73
1	72	51	6.54	4.05	4.64	5.95	-1.06	1154.11	-65.10	130.71	958.29	-447.66
1	72	52	5.30	-2.98	0.67	1.65	4.11	978.83	-191.35	277.94	509.54	-573.51
1	72	53	11.70	-3.84	10.64	-2.78	3.91	839.03	-282.48	-55.17	611.72	-450.84
1	72	54	6.49	-7.16	-1.50	0.83	6.73	653.25	-306.52	329.89	16.84	-453.64
1	72	55	1.20	-4.25	-4.11	1.06	-0.87	987.30	-106.76	718.80	161.74	470.81
1	72	56	1.59	0.84	1.39	1.04	0.33	1038.64	65.14	704.15	399.63	462.32
1	72	57	3.98	8.55e-03	1.30	2.68	1.86	1064.70	242.71	601.14	706.28	407.62
1	72	58	3.69	-4.17e-02	0.98	2.67	1.66	1072.55	353.17	533.03	892.70	311.51
1	72	59	3.18	9.47e-02	0.67	2.61	1.20	1078.80	397.62	477.80	998.62	219.52
1	72	60	2.74	0.32	0.56	2.50	0.72	1079.24	409.46	437.37	1051.32	133.85
1	72	61	2.47	0.50	0.54	2.43	0.29	1077.22	410.01	414.38	1072.84	53.84
1	72	62	2.44	0.53	0.54	2.43	-0.13	1076.50	410.00	410.83	1075.68	-23.49
1	72	63	2.67	0.41	0.56	2.51	-0.56	1077.90	411.19	427.11	1061.97	-101.81
1	72	64	3.09	0.23	0.68	2.64	-1.05	1078.71	406.66	461.78	1023.59	-184.41
1	72	65	3.58	0.15	1.03	2.69	-1.50	1075.01	379.22	511.44	942.79	-272.98
1	72	66	3.41	0.52	1.43	2.49	-1.34	1066.29	295.58	570.30	791.57	-369.13
1	72	67	4.08	0.23	0.99	3.32	-1.53	1058.34	137.89	662.09	534.14	-455.76
1	72	68	1.39	-2.91	-2.79	1.27	0.71	995.55	-99.04	726.72	169.78	-471.15
1	72	69	-8.51e-02	-2.34	-2.34	-8.92e-02	-9.66e-02	1149.02	79.47	1016.63	211.86	352.24
1	72	70	0.39	-0.85	-0.84	0.38	9.74e-02	1079.39	252.10	925.39	406.10	322.01
1	72	71	1.49	-0.20	0.81	0.47	0.83	1010.38	430.75	789.41	651.71	281.52
1	72	72	2.26	-0.11	1.11	1.04	1.18	982.77	519.05	676.79	825.03	219.69

1	72	73	2.25	0.19	1.03	1.41	1.01	989.24	529.32	589.67	928.89	155.28
1	72	74	2.00	0.55	0.96	1.59	0.66	1003.14	510.10	528.94	984.30	94.52
1	72	75	1.75	0.85	0.93	1.66	0.26	1011.37	492.74	495.54	1008.57	38.03
1	72	76	1.71	0.91	0.93	1.69	-0.14	1012.49	489.63	490.14	1011.99	-16.27
1	72	77	1.95	0.67	0.97	1.66	-0.54	1006.73	502.44	512.77	996.40	-71.44
1	72	78	2.23	0.36	1.06	1.53	-0.91	994.22	523.47	562.78	954.92	-130.22
1	72	79	2.32	0.10	1.19	1.24	-1.11	982.06	529.56	638.99	872.63	-193.75
1	72	80	1.89	-1.64e-02	1.02	0.86	-0.95	993.55	475.85	741.23	728.17	-258.77
1	72	81	0.76	-0.28	-0.12	0.60	-0.38	1046.39	327.79	867.92	506.25	-310.47
1	72	82	7.35e-02	-2.21	-2.20	7.02e-02	8.74e-02	1148.35	78.25	1014.97	211.63	-353.47
1	72	83	-0.15	-2.62	-2.61	-0.17	-0.21	1175.34	194.96	1146.05	224.25	166.91
1	72	84	-0.19	-1.32	-1.32	-0.19	-5.79e-02	1076.55	368.57	1042.57	402.55	151.33
1	72	85	0.45	-0.31	0.24	-0.10	0.34	943.91	568.55	888.41	624.05	133.24
1	72	86	1.33	-0.12	0.97	0.23	0.62	874.08	662.94	754.16	782.86	104.59
1	72	87	1.60	0.21	1.20	0.61	0.63	904.96	627.33	648.28	884.01	73.33
1	72	88	1.55	0.59	1.26	0.88	0.44	946.44	569.21	574.44	941.21	44.10
1	72	89	1.35	0.94	1.26	1.03	0.17	968.29	533.27	533.98	967.57	17.65
1	72	90	1.32	1.01	1.26	1.06	-0.12	971.54	527.16	527.28	971.41	-7.35
1	72	91	1.54	0.70	1.27	0.97	-0.39	956.94	551.62	554.33	954.23	-33.01
1	72	92	1.66	0.36	1.26	0.76	-0.60	922.44	602.68	614.84	910.27	-61.17
1	72	93	1.50	5.26e-02	1.12	0.44	-0.64	877.89	657.92	708.01	827.80	-92.25
1	72	94	0.86	-0.16	0.60	9.85e-02	-0.44	903.34	620.69	831.46	692.57	-123.08
1	72	95	-0.11	-0.60	-0.59	-0.12	-6.26e-02	1019.69	453.28	978.81	494.16	-146.58
1	72	96	-0.12	-2.58	-2.56	-0.14	0.23	1174.44	192.28	1144.82	221.91	-167.98
1	72	97	-0.16	-2.69	-2.68	-0.17	-0.14	1168.13	225.06	1167.24	225.95	-28.97
1	72	98	-0.27	-1.56	-1.55	-0.28	-0.10	1061.99	399.10	1061.06	400.03	-24.86
1	72	99	-4.62e-02	-0.28	-6.16e-02	-0.27	5.80e-02	903.78	611.39	902.02	613.16	-22.64
1	72	100	0.88	-0.10	0.83	-5.99e-02	0.21	785.33	742.89	761.26	766.96	-21.03
1	72	101	1.31	0.19	1.26	0.24	0.24	869.68	647.51	648.95	868.24	-17.84
1	72	102	1.45	0.48	1.42	0.51	0.17	927.90	570.13	570.56	927.48	-12.38
1	72	103	1.46	0.68	1.46	0.68	5.43e-02	955.53	527.68	527.74	955.47	-5.26
1	72	104	1.47	0.71	1.46	0.71	-7.61e-02	959.60	520.57	520.59	959.59	2.51
1	72	105	1.48	0.57	1.44	0.61	-0.19	941.40	548.81	549.07	941.15	9.97
1	72	106	1.40	0.32	1.33	0.39	-0.26	895.85	612.33	613.24	894.94	16.05
1	72	107	1.08	4.76e-02	1.02	0.11	-0.24	814.92	708.48	712.33	811.07	19.87
1	72	108	0.36	-0.16	0.34	-0.14	-9.31e-02	845.43	675.88	842.64	678.67	21.58
1	72	109	-0.23	-0.89	-0.88	-0.25	0.10	996.75	487.57	995.70	488.63	23.14
1	72	110	-0.15	-2.65	-2.63	-0.17	0.20	1167.20	222.59	1166.36	223.43	28.15
1	72	111	-0.13	-2.61	-2.61	-0.13	-8.91e-02	1149.23	169.44	1094.25	224.42	-225.49
1	72	112	-0.20	-1.58	-1.57	-0.21	-0.13	1051.73	337.08	989.76	399.05	-201.10
1	72	113	-1.27e-02	-0.32	-0.14	-0.19	-0.15	934.64	515.47	833.82	616.29	-179.16
1	72	114	0.80	-3.61e-02	0.78	-1.41e-02	-0.13	889.97	583.70	697.15	776.53	-147.90
1	72	115	1.28	0.24	1.27	0.26	-0.12	919.64	553.54	590.04	883.14	-109.68
1	72	116	1.47	0.51	1.46	0.52	-0.10	956.12	506.03	516.82	945.34	-68.84
1	72	117	1.51	0.69	1.51	0.70	-6.95e-02	976.06	475.87	477.45	974.48	-28.06
1	72	118	1.51	0.73	1.51	0.73	-2.81e-02	979.03	470.56	470.86	978.73	12.24
1	72	119	1.47	0.61	1.47	0.61	1.30e-02	965.48	490.91	496.85	959.54	52.78
1	72	120	1.33	0.39	1.33	0.39	5.23e-02	934.28	533.11	556.35	911.04	93.72
1	72	121	0.97	0.13	0.95	0.14	0.10	895.06	577.71	650.18	822.59	133.21
1	72	122	0.30	-0.15	0.22	-6.36e-02	0.18	903.47	556.45	776.04	683.88	167.28
1	72	123	-9.78e-02	-1.02	-0.95	-0.16	0.23	998.77	415.39	925.72	488.44	193.08
1	72	124	-0.11	-2.55	-2.54	-0.13	0.17	1148.20	167.00	1093.59	221.61	224.95
1	72	125	-3.33e-02	-2.41	-2.40	-4.43e-02	-0.16	1110.57	23.68	916.28	217.96	-416.44
1	72	126	4.92e-02	-1.46	-1.42	1.56e-03	-0.26	1036.53	179.76	819.25	397.04	-372.76
1	72	127	0.43	-0.37	-5.96e-02	0.12	-0.39	985.86	323.27	676.58	632.56	-330.56
1	72	128	1.12	4.30e-02	0.83	0.33	-0.48	980.67	389.52	557.80	812.39	-266.76
1	72	129	1.53	0.36	1.26	0.63	-0.49	999.06	401.61	471.48	929.19	-192.00
1	72	130	1.60	0.70	1.38	0.92	-0.39	1016.89	393.40	416.41	993.88	-117.54
1	72	131	1.49	1.00	1.39	1.10	-0.19	1026.17	384.53	388.03	1022.66	-47.32
1	72	132	1.39	1.12	1.39	1.13	2.79e-02	1027.41	382.63	383.27	1026.77	20.34
1	72	133	1.49	0.89	1.38	1.00	0.23	1020.95	388.77	401.63	1008.09	89.25
1	72	134	1.47	0.56	1.27	0.76	0.37	1005.62	398.38	445.37	958.62	162.26
1	72	135	1.20	0.23	0.93	0.49	0.43	984.66	397.50	518.92	863.24	237.80
1	72	136	0.69	-0.20	0.20	0.28	0.45	976.46	357.05	625.50	708.01	306.95
1	72	137	0.29	-1.05	-0.89	0.12	0.44	1008.81	243.00	760.32	491.48	358.54
1	72	138	1.28e-02	-2.32	-2.28	-2.24e-02	0.28	1109.50	20.98	915.86	214.62	416.28
1	72	139	0.33	-2.14	-2.00	0.19	-0.58	1018.99	-226.07	596.81	196.10	-589.41
1	72	140	0.79	-1.41	-1.23	0.62	-0.59	988.14	-82.09	519.51	386.53	-530.97
1	72	141	1.19	-0.32	0.11	0.76	-0.68	1020.47	54.23	410.88	663.82	-466.27
1	72	142	1.88	0.10	0.98	1.00	-0.89	1059.44	156.16	336.91	878.68	-361.39
1	72	143	2.23	0.38	1.21	1.40	-0.92	1084.39	218.93	297.77	1005.55	-249.03
1	72	144	2.18	0.70	1.16	1.72	-0.68	1094.69	252.36	279.17	1067.88	-147.86
1	72	145	1.99	0.99	1.10	1.88	-0.31	1096.96	266.95	271.12	1092.79	-58.67
1	72	146	1.91	1.08	1.09	1.90	9.39e-02	1096.93	268.92	269.67	1096.18	24.89
1	72	147	2.02	0.88	1.14	1.76	0.47	1095.64	259.22	274.24	1080.61	111.10
1	72	148	2.09	0.58	1.17	1.49	0.74	1088.81	233.60	287.33	1035.07	207.52

1	72	149	1.87	0.26	0.97	1.17	0.80	1069.18	183.22	316.75	935.65	316.98
1	72	150	1.43	-0.23	0.24	0.96	0.75	1033.40	97.93	376.50	754.83	427.78
1	72	151	1.09	-1.17	-0.82	0.75	0.81	994.41	-27.65	473.53	493.23	510.94
1	72	152	0.47	-2.07	-1.84	0.24	0.72	1018.43	-228.74	596.78	192.90	589.98
1	72	153	1.63	-2.89	-1.75	0.49	-1.96	803.39	-619.05	61.35	122.98	-710.55
1	72	154	2.74	-1.58	-1.40	2.57	-0.85	869.57	-478.38	35.91	355.29	-654.78
1	72	155	2.25	-8.97e-02	0.38	1.78	-0.94	1030.17	-298.81	8.77	722.59	-560.50
1	72	156	3.23	0.16	1.25	2.14	-1.47	1128.14	-106.68	38.59	982.87	-397.85
1	72	157	3.49	0.22	1.01	2.70	-1.41	1166.67	27.27	88.51	1105.43	-256.95
1	72	158	3.26	0.41	0.76	2.91	-0.93	1175.66	105.90	126.56	1155.00	-147.23
1	72	159	3.02	0.58	0.64	2.96	-0.39	1174.47	143.74	146.96	1171.24	-57.56
1	72	160	2.96	0.62	0.63	2.95	0.15	1173.76	149.53	150.09	1173.19	24.02
1	72	161	3.08	0.53	0.73	2.88	0.69	1175.35	124.56	136.02	1163.89	109.14
1	72	162	3.25	0.36	0.94	2.68	1.15	1172.04	62.49	103.74	1130.79	209.92
1	72	163	3.03	0.29	1.12	2.20	1.26	1147.28	-50.17	55.26	1041.85	339.31
1	72	164	2.58	-0.18	0.30	2.10	1.04	1073.73	-222.20	13.54	837.99	499.93
1	72	165	2.67	-1.57	-1.13	2.23	1.30	928.74	-418.21	19.55	490.98	630.88
1	72	166	1.63	-2.32	-1.29	0.60	1.73	808.00	-617.91	63.04	127.05	712.24
1	72	167	-0.65	-9.09	-7.44	-2.30	-3.35	236.91	-1251.47	-896.70	-117.86	-634.17
1	72	168	7.11	0.81	0.83	7.09	-0.35	606.99	-992.65	-640.06	254.40	-663.10
1	72	169	4.03	0.39	0.63	3.78	-0.90	1046.27	-722.99	-550.17	873.45	-525.26
1	72	170	6.02	-9.99e-02	1.18	4.75	-2.49	1186.27	-347.37	-278.79	1117.68	-317.00
1	72	171	5.23	-0.12	0.45	4.66	-1.65	1233.68	-134.75	-106.94	1205.87	-193.09
1	72	172	4.53	-2.02e-02	0.18	4.33	-0.93	1243.17	-15.62	-6.35	1233.89	-107.66
1	72	173	4.13	7.07e-02	0.10	4.10	-0.35	1240.51	41.42	42.87	1239.06	-41.66
1	72	174	4.06	9.54e-02	0.10	4.05	0.16	1239.45	50.46	50.70	1239.20	17.05
1	72	175	4.31	4.67e-02	0.17	4.19	0.71	1242.34	13.63	18.69	1237.29	78.65
1	72	176	4.86	-3.15e-02	0.40	4.43	1.38	1240.31	-78.60	-60.33	1222.05	154.12
1	72	177	5.46	-5.44e-03	1.01	4.44	2.13	1213.11	-252.28	-204.85	1165.68	259.33
1	72	178	3.19	0.76	0.85	3.10	0.46	1110.04	-570.55	-453.28	992.77	428.18
1	72	179	3.80	0.64	1.47	2.97	1.39	900.77	190.16	237.94	852.99	177.96
1	72	180	17.00	-3.40	15.48	-1.88	5.36	-1112.37	-2192.08	-2177.92	-1126.54	-122.85
1	72	181	10.07	-9.43	5.90	-5.26	8.00	609.37	-1889.60	-1686.95	406.72	-682.16
1	72	182	12.57	-5.33	1.46	5.78	-8.69	1057.19	-965.82	-924.06	1015.42	-287.67
1	72	183	8.84	-1.38	-0.80	8.26	-2.37	1214.64	-472.65	-464.81	1206.79	-114.79
1	72	184	6.64	-0.53	-0.38	6.50	-1.00	1268.44	-216.18	-213.29	1265.55	-65.46
1	72	185	5.41	-0.35	-0.31	5.37	-0.46	1278.97	-77.48	-76.52	1278.01	-36.07
1	72	186	4.85	-0.28	-0.28	4.84	-0.16	1276.09	-11.71	-11.56	1275.94	-13.97
1	72	187	4.77	-0.27	-0.27	4.77	7.72e-02	1274.90	-1.07	-1.05	1274.88	5.60
1	72	188	5.16	-0.31	-0.29	5.14	0.36	1277.96	-42.77	-42.26	1277.44	26.07
1	72	189	6.17	-0.46	-0.35	6.07	0.84	1275.52	-147.92	-146.07	1273.67	51.33
1	72	190	8.08	-1.15	-0.70	7.63	1.99	1244.11	-348.81	-343.64	1238.94	90.60
1	72	191	11.41	-4.29	0.72	6.39	7.32	1139.88	-726.26	-698.53	1112.15	225.78
1	72	192	10.50	-6.47	10.13	-6.10	-2.49	902.36	-1436.70	-1347.73	813.38	447.44
1	72	193	14.22	-5.79	8.25	0.18	-9.15	-962.91	-2262.49	-2231.54	-993.87	198.17
1	72	194	59.08	-14.93	59.08	-14.92	0.69	746.14	-1638.55	-1635.21	742.81	89.11
1	72	195	24.42	0.41	0.63	24.20	-2.28	1231.45	-876.04	-875.87	1231.27	-19.28
1	72	196	9.18	1.12	1.12	9.18	-0.12	1219.52	-445.32	-445.32	1219.51	-1.52
1	72	197	6.60	-0.27	-0.26	6.60	-0.13	1269.86	-215.22	-215.21	1269.85	-3.82
1	72	198	5.47	-0.38	-0.38	5.47	-9.84e-02	1281.62	-80.62	-80.61	1281.62	-3.08
1	72	199	4.93	-0.34	-0.34	4.93	-4.19e-02	1279.10	-15.52	-15.52	1279.10	-1.39
1	72	200	4.86	-0.32	-0.32	4.86	1.62e-02	1277.93	-4.89	-4.89	1277.93	0.50
1	72	201	5.24	-0.35	-0.35	5.24	7.59e-02	1280.72	-45.96	-45.95	1280.71	2.24
1	72	202	6.18	-0.27	-0.27	6.18	0.13	1277.40	-147.49	-147.48	1277.40	3.22
1	72	203	8.38	0.80	0.81	8.37	0.21	1249.46	-327.52	-327.52	1249.46	2.20
1	72	204	20.54	0.65	0.92	20.27	2.31	1272.40	-671.06	-670.87	1272.22	18.76
1	72	205	44.30	5.80	44.27	5.83	1.02	984.54	-946.73	-946.09	983.89	-35.29
1	72	206	5.62	-8.22	-3.27	0.68	-6.63	-1963.34	-4304.76	-4303.90	-1964.21	44.95
1	72	207	22.12	-9.57	22.05	-9.50	1.50	-771.70	-1689.22	-1655.61	-805.30	172.35
1	72	208	9.07	-5.74	4.44	-1.11	-6.87	541.21	-1701.76	-1455.02	294.47	701.82
1	72	209	12.79	-3.46	1.36	7.97	7.42	1064.81	-901.82	-843.26	1006.25	334.28
1	72	210	9.03	-1.08	-0.76	8.71	1.78	1210.97	-447.16	-434.19	1197.99	146.10
1	72	211	6.74	-0.50	-0.42	6.65	0.79	1265.02	-205.80	-201.07	1260.29	83.28
1	72	212	5.47	-0.36	-0.34	5.44	0.37	1276.32	-72.88	-71.38	1274.82	44.91
1	72	213	4.89	-0.30	-0.30	4.89	0.13	1273.94	-9.42	-9.19	1273.71	17.07
1	72	214	4.82	-0.29	-0.29	4.82	-6.99e-02	1272.82	0.91	0.95	1272.78	-6.95
1	72	215	5.22	-0.33	-0.32	5.21	-0.30	1275.50	-39.22	-38.42	1274.70	-32.45
1	72	216	6.27	-0.45	-0.38	6.20	-0.67	1272.35	-139.87	-136.85	1269.33	-65.22
1	72	217	8.29	-0.93	-0.65	8.02	-1.57	1240.75	-329.00	-320.37	1232.12	-116.03
1	72	218	12.42	-3.44	0.49	8.49	-6.85	1145.44	-678.04	-638.81	1106.20	-264.59
1	72	219	10.67	-4.42	9.67	-3.43	3.75	868.53	-1339.22	-1204.61	733.92	-528.27
1	72	220	14.62	-3.52	14.25	-3.15	2.59	-625.41	-1747.99	-1699.09	-674.32	-229.14
1	72	221	-3.49	-8.76	-8.59	-3.66	0.94	304.36	-1119.32	-737.12	-77.84	630.91
1	72	222	4.51	2.03	2.37	4.18	-0.85	648.50	-831.72	-496.60	313.39	619.47
1	72	223	5.81	0.28	1.62	4.47	2.37	1050.92	-611.36	-428.04	867.59	520.70
1	72	224	6.49	-0.20	1.16	5.13	2.69	1175.54	-293.06	-219.41	1101.88	320.53

1	72	225	5.42	-0.17	0.38	4.86	1.67	1223.92	-108.37	-78.67	1194.22	196.69
1	72	226	4.63	-5.45e-02	0.13	4.44	0.91	1235.73	-3.47	6.31	1225.96	109.60
1	72	227	4.20	3.43e-02	6.18e-02	4.17	0.34	1234.69	46.99	48.50	1233.18	42.33
1	72	228	4.13	5.26e-02	5.98e-02	4.13	-0.17	1233.90	55.06	55.32	1233.64	-17.31
1	72	229	4.42	-3.10e-03	0.12	4.30	-0.72	1235.61	22.62	27.92	1230.31	-79.99
1	72	230	5.05	-9.42e-02	0.32	4.63	-1.41	1231.40	-58.56	-39.17	1212.01	-156.97
1	72	231	5.89	-0.12	0.95	4.83	-2.29	1202.50	-210.36	-159.59	1151.72	-262.97
1	72	232	4.33	0.74	1.42	3.65	-1.41	1109.76	-487.34	-360.95	983.38	-431.14
1	72	233	7.85	-1.47	-0.50	6.88	-2.84	837.28	-788.72	-481.61	530.17	-636.43
1	72	234	-2.77	-6.04	-2.96	-5.85	0.77	328.85	-1079.15	-693.85	-56.45	-627.73
1	72	235	0.66	-2.80	-2.29	0.16	1.23	820.14	-516.88	159.67	143.60	668.46
1	72	236	1.78	-1.25	-1.24	1.78	0.10	872.94	-373.96	120.83	378.14	610.03
1	72	237	2.14	0.19	0.99	1.34	0.96	1018.40	-215.06	74.50	728.84	522.79
1	72	238	3.51	0.11	1.51	2.11	1.68	1111.32	-54.62	80.94	975.76	373.74
1	72	239	3.63	0.20	1.06	2.77	1.49	1153.19	52.58	109.08	1096.68	242.89
1	72	240	3.34	0.39	0.75	2.98	0.96	1166.94	113.91	132.73	1148.13	139.50
1	72	241	3.08	0.55	0.61	3.02	0.38	1168.94	142.88	145.79	1166.03	54.59
1	72	242	3.02	0.59	0.60	3.01	-0.18	1168.76	147.28	147.78	1168.26	-22.65
1	72	243	3.18	0.48	0.70	2.96	-0.73	1168.10	128.23	138.59	1157.74	-103.27
1	72	244	3.40	0.32	0.95	2.77	-1.25	1160.47	79.97	117.78	1122.67	-198.55
1	72	245	3.27	0.25	1.30	2.22	-1.44	1131.55	-10.07	87.97	1033.52	-319.86
1	72	246	2.54	6.85e-02	0.79	1.81	-1.12	1058.45	-152.20	69.69	836.56	-468.40
1	72	247	1.79	-0.98	-0.73	1.55	-0.78	923.70	-320.46	97.22	506.02	-587.54
1	72	248	0.61	-2.31	-1.91	0.21	-1.00	821.63	-514.54	160.95	146.14	-668.05
1	72	249	8.56e-02	-2.37	-2.35	7.21e-02	0.18	992.08	-150.74	634.17	207.18	530.03
1	72	250	0.35	-1.30	-1.29	0.34	0.14	957.52	-7.54	549.80	400.18	476.69
1	72	251	0.86	-6.06e-02	0.34	0.46	0.46	986.19	116.52	430.70	672.00	417.76
1	72	252	1.90	0.13	1.19	0.84	0.87	1031.89	192.73	345.01	879.61	323.42
1	72	253	2.27	0.38	1.30	1.35	0.95	1067.83	229.66	293.76	1003.73	222.75
1	72	254	2.20	0.71	1.19	1.71	0.70	1087.67	244.30	265.54	1066.43	132.15
1	72	255	1.99	1.00	1.10	1.89	0.31	1095.53	248.76	252.02	1092.27	52.45
1	72	256	1.92	1.07	1.09	1.90	-0.12	1096.39	249.09	249.66	1095.82	-22.09
1	72	257	2.07	0.85	1.14	1.78	-0.52	1091.22	246.14	257.93	1079.44	-99.10
1	72	258	2.15	0.54	1.21	1.48	-0.79	1076.21	235.83	279.03	1033.01	-185.58
1	72	259	1.90	0.28	1.11	1.07	-0.81	1045.71	208.66	319.75	934.62	-283.99
1	72	260	1.19	-1.07e-02	0.46	0.72	-0.58	1000.57	150.02	391.74	758.85	-383.62
1	72	261	0.60	-0.89	-0.77	0.48	-0.40	960.61	43.57	499.75	504.43	-458.51
1	72	262	0.18	-2.24	-2.20	0.14	-0.32	990.65	-153.49	633.91	203.25	-529.99
1	72	263	-8.17e-02	-2.56	-2.55	-8.59e-02	-0.10	1047.37	77.41	900.20	224.57	347.98
1	72	264	-9.86e-02	-1.48	-1.48	-0.10	-5.66e-02	971.28	234.17	799.13	406.32	311.86
1	72	265	0.12	-0.15	-3.11e-03	-2.18e-02	0.13	921.97	369.67	650.49	641.16	276.11
1	72	266	1.07	5.40e-02	0.92	0.21	0.36	937.94	406.29	525.52	818.70	221.75
1	72	267	1.53	0.33	1.32	0.54	0.46	980.67	386.90	432.88	934.69	158.70
1	72	268	1.62	0.66	1.42	0.85	0.38	1014.56	357.97	372.53	1000.00	96.69
1	72	269	1.49	0.97	1.42	1.04	0.18	1031.78	338.81	341.00	1029.59	38.88
1	72	270	1.42	1.06	1.41	1.07	-6.37e-02	1034.17	335.31	335.70	1033.78	-16.54
1	72	271	1.52	0.81	1.39	0.95	-0.28	1022.36	348.18	356.23	1014.32	-73.19
1	72	272	1.49	0.51	1.29	0.70	-0.39	994.22	374.11	404.50	963.83	-133.89
1	72	273	1.14	0.23	0.96	0.41	-0.36	951.78	400.70	484.13	868.36	-197.52
1	72	274	0.43	-2.44e-02	0.23	0.18	-0.23	918.90	392.96	597.11	714.75	-256.31
1	72	275	4.06e-02	-0.93	-0.92	3.04e-02	-9.92e-02	941.78	296.20	737.91	500.07	-300.09
1	72	276	-5.33e-02	-2.42	-2.42	-5.34e-02	-4.66e-03	1046.18	74.20	899.67	220.70	-347.76
1	72	277	-0.12	-2.61	-2.60	-0.13	-0.14	1051.22	200.25	1023.23	228.24	151.77
1	72	278	-0.20	-1.61	-1.59	-0.22	-0.15	950.67	371.26	916.70	405.23	136.12
1	72	279	-0.11	-0.29	-0.19	-0.21	-8.56e-02	829.55	552.77	757.96	624.36	121.20
1	72	280	0.75	-7.21e-02	0.75	-7.17e-02	1.82e-02	832.59	572.73	618.84	786.49	99.27
1	72	281	1.28	0.16	1.27	0.16	9.28e-02	908.71	496.33	509.67	895.38	72.95
1	72	282	1.51	0.40	1.50	0.41	0.10	963.63	431.11	435.03	959.71	45.49
1	72	283	1.56	0.57	1.56	0.57	5.42e-02	990.74	394.35	394.92	990.17	18.54
1	72	284	1.55	0.60	1.55	0.60	-1.54e-02	994.63	388.12	388.23	994.53	-7.93
1	72	285	1.48	0.50	1.48	0.51	-7.13e-02	976.31	412.58	414.72	974.17	-34.68
1	72	286	1.29	0.31	1.28	0.32	-8.25e-02	931.95	466.97	475.43	923.49	-62.12
1	72	287	0.86	0.11	0.86	0.11	-3.83e-02	860.07	543.62	571.17	832.52	-89.22
1	72	288	0.11	-6.48e-02	0.10	-5.72e-02	3.53e-02	808.70	582.40	699.42	691.68	-113.08
1	72	289	-0.13	-1.03	-1.03	-0.14	8.96e-02	894.58	451.69	851.69	494.58	-130.98
1	72	290	-0.11	-2.50	-2.49	-0.11	9.43e-02	1050.43	197.13	1022.64	224.91	-151.46
1	72	291	-0.12	-2.53	-2.52	-0.12	-0.13	1035.40	224.00	1032.67	226.73	-46.96
1	72	292	-0.17	-1.59	-1.56	-0.20	-0.20	929.97	399.05	926.68	402.34	-41.64
1	72	293	5.12e-02	-0.47	-0.23	-0.19	-0.26	777.06	610.95	768.62	619.39	-36.48
1	72	294	0.76	-0.15	0.69	-6.75e-02	-0.26	784.63	624.72	629.90	779.45	-28.31
1	72	295	1.26	9.36e-02	1.22	0.13	-0.21	887.69	519.84	520.82	886.72	-18.91
1	72	296	1.48	0.33	1.46	0.34	-0.14	950.23	445.83	446.05	950.01	-10.56
1	72	297	1.55	0.48	1.55	0.49	-6.17e-02	979.96	405.79	405.82	979.93	-3.96
1	72	298	1.54	0.52	1.54	0.52	2.20e-02	984.20	399.11	399.11	984.20	1.70
1	72	299	1.46	0.43	1.45	0.44	0.10	964.29	425.63	425.74	964.17	7.80
1	72	300	1.27	0.25	1.24	0.28	0.17	914.92	486.06	486.62	914.36	15.48

1	72	301	0.87	3.02e-02	0.80	9.77e-02	0.23	827.35	579.88	582.37	824.86	24.70
1	72	302	0.27	-0.26	5.65e-02	-4.57e-02	0.26	733.96	662.39	710.30	686.05	33.67
1	72	303	-6.49e-02	-1.08	-1.02	-0.12	0.23	866.28	486.84	861.98	491.15	40.19
1	72	304	-0.10	-2.43	-2.42	-0.11	0.14	1034.89	220.83	1032.12	223.59	47.38
1	72	305	-4.34e-02	-2.32	-2.31	-5.95e-02	-0.19	1006.58	146.68	932.70	220.56	-240.98
1	72	306	3.55e-02	-1.47	-1.40	-3.51e-02	-0.32	921.69	309.48	832.90	398.26	-215.57
1	72	307	0.42	-0.52	-0.15	5.64e-02	-0.46	848.37	464.01	685.77	626.60	-189.89
1	72	308	1.04	-0.13	0.70	0.21	-0.53	870.43	488.60	561.35	797.69	-149.95
1	72	309	1.41	0.17	1.15	0.43	-0.51	932.31	444.74	468.26	908.79	-104.48
1	72	310	1.50	0.48	1.34	0.64	-0.37	977.78	400.25	406.97	971.06	-61.91
1	72	311	1.44	0.73	1.39	0.78	-0.17	1000.12	373.73	374.68	999.16	-24.40
1	72	312	1.39	0.80	1.39	0.80	5.82e-02	1003.26	369.12	369.29	1003.09	10.42
1	72	313	1.43	0.62	1.33	0.72	0.27	988.16	386.86	390.48	984.54	46.54
1	72	314	1.37	0.34	1.16	0.56	0.42	951.34	424.92	439.80	936.46	87.25
1	72	315	1.10	4.57e-02	0.77	0.37	0.49	892.45	473.09	520.13	845.41	132.34
1	72	316	0.64	-0.35	7.63e-02	0.22	0.49	844.00	486.96	632.81	698.14	175.51
1	72	317	0.24	-1.08	-0.92	7.93e-02	0.43	882.32	380.47	772.37	490.42	207.58
1	72	318	-9.53e-03	-2.23	-2.21	-3.82e-02	0.25	1006.29	143.30	932.29	217.30	241.63
1	72	319	0.25	-2.05	-1.92	0.13	-0.53	941.19	-35.85	702.66	202.68	-419.71
1	72	320	0.68	-1.40	-1.20	0.49	-0.61	899.09	109.06	619.20	388.95	-377.86
1	72	321	1.08	-0.48	-1.14e-02	0.61	-0.72	912.35	236.99	500.56	648.78	-329.45
1	72	322	1.64	-6.83e-02	0.78	0.79	-0.86	960.06	297.94	413.27	844.72	-251.13
1	72	323	1.90	0.24	1.06	1.07	-0.83	1005.16	314.38	358.74	960.79	-169.35
1	72	324	1.81	0.60	1.11	1.29	-0.60	1032.67	313.18	326.93	1018.92	-98.52
1	72	325	1.55	0.96	1.11	1.40	-0.26	1044.72	308.93	310.95	1042.69	-38.57
1	72	326	1.44	1.08	1.10	1.41	9.85e-02	1046.21	307.86	308.23	1045.85	16.36
1	72	327	1.66	0.76	1.09	1.34	0.43	1038.18	310.86	318.39	1030.65	73.64
1	72	328	1.78	0.41	1.03	1.16	0.68	1016.77	313.90	343.03	987.64	140.10
1	72	329	1.63	8.50e-02	0.77	0.95	0.77	977.36	306.34	387.45	896.25	218.75
1	72	330	1.28	-0.37	0.11	0.80	0.75	926.60	266.76	461.47	731.89	300.95
1	72	331	0.95	-1.16	-0.82	0.61	0.77	895.64	164.46	569.41	490.68	363.46
1	72	332	0.35	-1.98	-1.80	0.18	0.61	941.46	-39.12	702.53	199.81	420.95
1	72	333	1.34	-2.52	-1.60	0.41	-1.65	777.25	-343.59	287.96	145.70	-555.89
1	72	334	2.41	-1.49	-1.26	2.18	-0.92	822.23	-208.62	246.88	366.74	-511.93
1	72	335	2.04	-0.30	0.18	1.56	-0.95	947.46	-54.78	195.53	697.15	-433.84
1	72	336	2.72	4.42e-03	0.93	1.80	-1.29	1036.43	83.42	193.13	926.72	-304.16
1	72	337	2.85	0.17	0.85	2.16	-1.17	1080.49	167.71	210.96	1037.24	-193.92
1	72	338	2.58	0.44	0.75	2.27	-0.76	1097.51	211.30	225.13	1083.68	-109.84
1	72	339	2.33	0.66	0.72	2.27	-0.31	1101.79	230.14	232.22	1099.70	-42.58
1	72	340	2.27	0.70	0.71	2.26	0.13	1101.95	232.84	233.21	1101.59	17.87
1	72	341	2.43	0.54	0.74	2.24	0.57	1099.54	220.67	228.26	1091.95	81.31
1	72	342	2.65	0.30	0.81	2.14	0.96	1088.68	187.56	216.13	1060.11	157.88
1	72	343	2.55	0.14	0.84	1.85	1.10	1056.64	119.76	197.41	978.98	258.31
1	72	344	2.31	-0.33	0.13	1.84	1.01	985.47	2.28	188.73	799.02	385.43
1	72	345	2.40	-1.48	-1.04	1.95	1.24	866.92	-153.61	221.36	491.95	492.01
1	72	346	1.38	-2.07	-1.23	0.54	1.48	781.78	-343.51	289.16	149.11	558.27
1	72	347	9.06e-02	-7.29	-6.09	-1.12	-2.73	315.14	-826.65	-471.40	-40.11	-528.60
1	72	348	6.22	0.52	0.63	6.10	-0.80	629.13	-621.56	-286.66	294.23	-553.80
1	72	349	3.67	1.57e-02	0.24	3.44	-0.88	977.19	-394.48	-240.98	823.69	-432.43
1	72	350	4.91	-0.15	0.78	3.97	-1.97	1097.45	-109.51	-49.65	1037.58	-262.06
1	72	351	4.18	-5.09e-02	0.38	3.75	-1.28	1143.45	42.75	66.57	1119.63	-160.17
1	72	352	3.56	0.13	0.29	3.41	-0.71	1155.97	123.53	131.34	1148.16	-89.48
1	72	353	3.21	0.26	0.29	3.19	-0.27	1156.14	160.55	161.75	1154.94	-34.57
1	72	354	3.16	0.29	0.29	3.15	0.12	1155.52	166.31	166.52	1155.31	14.42
1	72	355	3.39	0.20	0.29	3.29	0.54	1156.13	142.71	147.00	1151.85	65.77
1	72	356	3.88	4.05e-02	0.36	3.56	1.06	1150.47	81.35	97.00	1134.82	128.39
1	72	357	4.44	-4.81e-02	0.69	3.70	1.66	1121.68	-40.45	0.83	1080.40	215.11
1	72	358	2.95	0.38	0.48	2.85	0.49	1030.63	-276.37	-172.70	926.95	353.21
1	72	359	8.18	-2.59	-1.81	7.41	2.78	809.89	-573.38	-283.63	520.15	562.89
1	72	360	-0.44	-3.01	-1.61	-1.84	1.28	341.65	-794.43	-432.26	-20.52	529.43
1	72	361	14.17	-2.82	11.56	-0.21	6.12	-822.15	-1538.37	-1515.41	-845.11	-126.17
1	72	362	7.87	-7.47	3.69	-3.28	6.83	648.81	-1328.80	-1125.13	445.15	-601.07
1	72	363	9.82	-4.11	0.66	5.05	-6.61	991.05	-583.74	-538.14	945.45	-264.06
1	72	364	7.07	-1.13	-0.75	6.70	-1.71	1127.43	-204.81	-193.61	1116.24	-121.64
1	72	365	5.28	-0.34	-0.25	5.20	-0.68	1179.53	-17.85	-13.16	1174.84	-74.79
1	72	366	4.27	-9.03e-02	-7.06e-02	4.25	-0.29	1192.80	78.98	80.66	1191.12	-43.24
1	72	367	3.80	1.83e-02	2.10e-02	3.80	-0.10	1192.50	123.37	123.64	1192.22	-17.06
1	72	368	3.74	3.23e-02	3.28e-02	3.74	4.27e-02	1191.71	130.46	130.51	1191.66	7.30
1	72	369	4.07	-4.94e-02	-3.78e-02	4.06	0.22	1192.65	102.62	103.58	1191.69	32.30
1	72	370	4.90	-0.26	-0.20	4.84	0.55	1186.85	30.38	33.58	1183.65	60.77
1	72	371	6.45	-0.92	-0.64	6.17	1.41	1154.27	-113.52	-105.61	1146.36	99.81
1	72	372	8.89	-3.36	6.56e-02	5.47	5.50	1061.56	-399.33	-367.71	1029.94	212.56
1	72	373	7.79	-5.26	7.38	-4.85	-2.28	862.32	-957.41	-862.61	767.52	404.39
1	72	374	12.29	-6.15	5.29	0.86	-8.95	-702.09	-1606.36	-1563.34	-745.11	192.48
1	72	375	46.30	-10.92	46.25	-10.88	1.61	715.97	-1106.43	-1105.76	715.30	35.01
1	72	376	19.25	7.04e-02	0.16	19.16	-1.32	1116.99	-503.43	-501.38	1114.94	-57.56

1	72	377	7.38	0.75	0.76	7.38	0.11	1131.31	-179.90	-178.73	1130.14	-39.13
1	72	378	5.27	-0.14	-0.14	5.27	3.12e-02	1183.59	-15.41	-14.54	1182.72	-32.21
1	72	379	4.33	-0.10	-0.10	4.33	8.23e-04	1199.21	77.11	77.51	1198.81	-21.35
1	72	380	3.88	-3.05e-03	-3.04e-03	3.88	-5.56e-03	1199.84	120.42	120.50	1199.76	-8.90
1	72	381	3.82	1.03e-02	1.04e-02	3.82	-8.51e-03	1199.16	127.41	127.42	1199.14	4.05
1	72	382	4.14	-6.62e-02	-6.62e-02	4.14	-1.10e-02	1199.46	100.39	100.65	1199.21	16.72
1	72	383	4.93	-0.11	-0.11	4.93	-2.22e-02	1191.90	31.77	32.45	1191.22	28.15
1	72	384	6.70	0.56	0.56	6.70	-2.80e-02	1159.77	-94.57	-93.49	1158.69	36.69
1	72	385	16.09	0.45	0.57	15.97	1.39	1157.96	-348.90	-346.89	1155.96	54.95
1	72	386	33.73	6.29	33.73	6.29	0.21	907.06	-559.13	-558.96	906.90	15.42
1	72	387	16.03	-6.61	15.96	-6.54	1.27	-581.55	-1108.01	-1098.32	-591.25	70.77
1	72	388	6.58	-4.76	2.11	-0.29	-5.54	522.62	-1124.68	-946.83	344.77	511.22
1	72	389	10.12	-2.96	0.79	6.37	5.92	973.43	-504.74	-475.34	944.03	206.40
1	72	390	7.29	-0.99	-0.66	6.96	1.60	1122.51	-173.42	-170.06	1119.14	65.99
1	72	391	5.41	-0.32	-0.21	5.30	0.77	1183.27	-4.93	-4.30	1182.65	27.23
1	72	392	4.36	-6.41e-02	-3.10e-02	4.32	0.38	1202.00	83.43	83.52	1201.91	10.22
1	72	393	3.88	5.69e-02	6.14e-02	3.87	0.13	1204.50	124.04	124.05	1204.49	2.98
1	72	394	3.82	7.01e-02	7.19e-02	3.82	-8.01e-02	1204.14	130.55	130.55	1204.14	-0.68
1	72	395	4.16	-2.53e-02	-1.61e-03	4.14	-0.31	1203.19	105.16	105.19	1203.16	-5.76
1	72	396	5.03	-0.25	-0.16	4.94	-0.67	1192.99	39.43	39.70	1192.72	-17.70
1	72	397	6.69	-0.82	-0.54	6.41	-1.42	1153.28	-89.95	-88.25	1151.58	-45.96
1	72	398	9.84	-2.94	9.12e-02	6.80	-5.44	1048.76	-338.27	-321.11	1031.60	-153.33
1	72	399	7.26	-3.17	6.51	-2.42	2.70	798.44	-844.72	-757.13	710.85	-369.13
1	72	400	10.45	-2.39	10.12	-2.05	2.04	-464.59	-1151.41	-1130.11	-485.89	-119.06
1	72	401	-1.73	-7.60	-7.19	-2.14	1.50	281.96	-608.33	-326.75	0.37	414.01
1	72	402	3.68	1.25	1.25	3.68	-7.55e-02	576.25	-392.67	-165.16	348.75	410.70
1	72	403	4.91	-0.25	0.91	3.74	2.16	939.64	-244.54	-142.33	837.43	332.55
1	72	404	5.38	-0.32	0.91	4.15	2.35	1085.18	-34.72	-4.01	1054.47	182.89
1	72	405	4.47	-5.01e-02	0.50	3.92	1.47	1155.73	76.06	85.37	1146.41	99.87
1	72	406	3.79	0.22	0.41	3.59	0.81	1184.45	133.99	136.38	1182.06	50.06
1	72	407	3.42	0.38	0.41	3.39	0.29	1192.93	160.19	160.51	1192.61	18.16
1	72	408	3.37	0.40	0.41	3.36	-0.16	1193.62	164.22	164.27	1193.57	-6.84
1	72	409	3.62	0.28	0.41	3.49	-0.65	1188.65	147.53	148.68	1187.50	-34.63
1	72	410	4.18	4.08e-02	0.46	3.75	-1.25	1169.90	103.69	109.05	1164.54	-75.42
1	72	411	4.90	-0.21	0.77	3.92	-2.01	1119.86	14.93	33.66	1101.14	-142.62
1	72	412	3.77	0.18	0.86	3.09	-1.40	1005.10	-163.50	-100.28	941.88	-264.34
1	72	413	6.68	-1.83	-0.88	5.73	-2.69	739.58	-364.54	-166.96	542.00	-423.22
1	72	414	-2.79	-3.89	-2.80	-3.88	-0.14	302.66	-579.91	-294.00	16.75	-413.02
1	72	415	0.73	-3.05	-2.49	0.18	1.34	682.05	-131.80	376.49	173.75	394.10
1	72	416	1.63	-1.57	-1.46	1.52	0.58	724.21	-8.84e-02	319.46	404.66	359.64
1	72	417	2.08	-0.27	0.59	1.21	1.13	878.54	103.01	244.94	736.61	299.88
1	72	418	3.13	-2.67e-02	1.29	1.82	1.56	1019.20	169.06	218.03	970.23	198.07
1	72	419	3.19	0.30	1.13	2.36	1.31	1105.81	200.09	215.37	1090.52	116.67
1	72	420	2.91	0.64	0.98	2.57	0.81	1149.45	212.81	216.83	1145.43	61.24
1	72	421	2.69	0.85	0.90	2.63	0.31	1166.76	217.19	217.74	1166.22	22.71
1	72	422	2.65	0.88	0.89	2.63	-0.16	1168.95	217.53	217.62	1168.86	-8.95
1	72	423	2.80	0.71	0.93	2.58	-0.64	1157.95	214.39	216.41	1155.93	-43.57
1	72	424	3.01	0.42	1.04	2.40	-1.11	1125.91	204.78	213.94	1116.75	-91.40
1	72	425	2.95	0.14	1.14	1.95	-1.35	1057.09	180.71	212.29	1025.51	-163.33
1	72	426	2.39	-0.27	0.50	1.62	-1.21	934.36	129.75	227.13	836.99	-262.42
1	72	427	1.79	-1.36	-0.96	1.39	-1.04	771.76	40.22	284.31	527.67	-344.94
1	72	428	0.68	-2.62	-2.17	0.23	-1.13	682.93	-132.05	376.39	174.49	-394.79
1	72	429	0.11	-2.78	-2.71	4.93e-02	0.43	810.95	133.09	718.10	225.94	233.06
1	72	430	0.41	-1.61	-1.50	0.30	0.46	756.51	295.03	624.00	427.54	208.79
1	72	431	1.03	-0.30	0.24	0.49	0.65	805.33	389.43	490.46	704.30	178.36
1	72	432	1.89	0.20	1.19	0.90	0.83	944.89	360.42	390.11	915.20	128.35
1	72	433	2.20	0.64	1.42	1.41	0.78	1053.31	316.90	325.67	1044.54	79.91
1	72	434	2.16	1.02	1.38	1.80	0.53	1114.34	285.83	288.07	1112.10	43.01
1	72	435	2.06	1.25	1.32	2.00	0.22	1141.12	269.20	269.50	1140.82	16.02
1	72	436	2.03	1.29	1.30	2.02	-0.10	1144.85	266.09	266.14	1144.80	-6.57
1	72	437	2.10	1.10	1.33	1.87	-0.42	1127.42	276.29	277.43	1126.28	-31.09
1	72	438	2.14	0.76	1.34	1.56	-0.68	1080.49	300.74	305.99	1075.24	-63.75
1	72	439	1.92	0.35	1.11	1.15	-0.78	989.65	339.86	358.52	970.99	-108.52
1	72	440	1.32	-0.16	0.35	0.80	-0.70	853.55	381.98	444.75	790.79	-160.18
1	72	441	0.72	-1.17	-0.96	0.51	-0.60	750.96	349.08	566.93	533.11	-200.23
1	72	442	0.20	-2.62	-2.54	0.12	-0.46	809.42	127.38	716.11	220.70	-234.39
1	72	443	-3.94e-02	-2.94	-2.93	-4.31e-02	0.10	852.21	237.05	849.95	239.31	37.22
1	72	444	3.93e-02	-1.64	-1.62	2.37e-02	0.16	748.12	432.77	744.71	436.19	32.63
1	72	445	0.41	-5.54e-02	0.12	0.24	0.23	701.98	584.97	591.78	695.18	27.39
1	72	446	1.24	0.51	1.14	0.61	0.25	895.21	465.84	466.73	894.32	19.53
1	72	447	1.61	0.99	1.52	1.08	0.22	1024.54	377.67	377.88	1024.33	11.59
1	72	448	1.69	1.37	1.57	1.49	0.16	1096.74	322.60	322.64	1096.70	5.62
1	72	449	1.75	1.50	1.53	1.73	7.38e-02	1129.04	294.71	294.71	1129.04	1.74
1	72	450	1.75	1.51	1.51	1.75	-2.07e-02	1133.70	289.76	289.76	1133.70	-1.10
1	72	451	1.68	1.43	1.53	1.58	-0.12	1112.69	307.07	307.09	1112.67	-4.25
1	72	452	1.61	1.11	1.48	1.24	-0.22	1056.90	349.84	349.95	1056.79	-8.96

1	72	453	1.31	0.67	1.12	0.86	-0.29	949.64	424.21	424.69	949.16	-15.88
1	72	454	0.73	8.45e-02	0.26	0.56	-0.29	777.57	533.79	536.22	775.14	-24.19
1	72	455	0.33	-1.10	-1.08	0.31	-0.17	686.33	528.75	679.69	535.39	-31.65
1	72	456	4.19e-02	-2.76	-2.76	4.15e-02	-3.53e-02	849.37	230.28	846.86	232.79	-39.33
1	72	457	8.55e-02	-2.92	-2.90	6.86e-02	-0.22	846.25	189.70	802.58	233.37	-163.60
1	72	458	0.28	-1.68	-1.68	0.27	-0.12	766.51	367.84	701.21	433.14	-147.54
1	72	459	0.53	6.73e-02	0.15	0.45	-0.17	775.15	479.73	554.70	700.17	-128.56
1	72	460	1.38	0.63	1.20	0.82	-0.32	923.29	419.16	438.13	904.31	-95.95
1	72	461	1.76	1.06	1.52	1.30	-0.33	1040.16	351.61	357.42	1034.35	-62.98
1	72	462	1.85	1.38	1.54	1.69	-0.22	1107.08	306.21	307.82	1105.47	-35.92
1	72	463	1.91	1.49	1.50	1.90	-7.35e-02	1137.16	282.61	282.85	1136.92	-14.26
1	72	464	1.92	1.49	1.50	1.91	6.94e-02	1141.58	278.33	278.36	1141.55	5.00
1	72	465	1.85	1.43	1.54	1.74	0.19	1122.26	292.78	293.57	1121.47	25.57
1	72	466	1.71	1.22	1.53	1.40	0.24	1070.74	327.85	331.38	1067.21	51.09
1	72	467	1.31	0.90	1.21	1.00	0.17	972.26	386.06	398.19	960.13	83.45
1	72	468	0.74	0.23	0.23	0.74	5.44e-02	824.51	458.15	501.09	781.57	117.85
1	72	469	0.61	-1.31	-1.29	0.59	0.19	735.62	434.25	637.88	531.99	141.08
1	72	470	0.28	-2.82	-2.76	0.21	0.45	839.83	183.93	798.30	225.46	159.75
1	72	471	0.73	-3.26	-2.89	0.36	-1.17	768.81	-10.11	563.04	195.65	-343.42
1	72	472	1.37	-1.92	-1.92	1.36	-0.13	765.99	137.57	485.55	418.02	-312.39
1	72	473	1.47	9.08e-02	0.42	1.14	-0.59	870.27	230.51	376.79	723.99	-268.68
1	72	474	2.50	0.49	1.34	1.65	-0.99	997.87	255.98	307.97	945.88	-189.40
1	72	475	2.65	0.83	1.37	2.10	-0.83	1090.09	251.17	268.51	1072.76	-119.34
1	72	476	2.57	1.09	1.30	2.35	-0.52	1141.17	242.08	246.95	1136.30	-66.02
1	72	477	2.49	1.23	1.25	2.46	-0.18	1163.13	235.99	236.70	1162.42	-25.63
1	72	478	2.48	1.25	1.27	2.47	0.15	1166.34	234.68	234.77	1166.25	9.13
1	72	479	2.53	1.17	1.35	2.35	0.46	1152.70	238.12	240.48	1150.34	46.43
1	72	480	2.55	1.00	1.46	2.08	0.71	1114.68	244.76	255.16	1104.29	94.52
1	72	481	2.24	0.80	1.43	1.61	0.72	1038.60	249.33	283.47	1004.46	160.56
1	72	482	1.47	0.25	0.37	1.35	0.36	916.43	236.69	338.40	814.72	242.47
1	72	483	1.42	-1.80	-1.77	1.39	0.32	782.08	175.25	434.75	522.58	300.22
1	72	484	0.92	-3.29	-2.83	0.46	1.31	756.39	-10.65	557.94	187.80	335.91
1	72	485	-0.35	-8.49	-8.28	-0.55	-1.28	453.93	-376.55	16.11	61.27	-414.62
1	72	486	3.00	-0.81	3.14e-02	2.15	1.58	659.29	-181.44	93.80	384.06	-394.52
1	72	487	5.19	-0.26	0.89	4.04	-2.22	941.10	-78.39	66.96	795.75	-356.44
1	72	488	4.27	0.43	1.05	3.65	-1.41	1070.55	46.57	99.08	1018.04	-225.86
1	72	489	3.82	0.62	1.02	3.42	-1.06	1148.44	116.28	133.94	1130.78	-133.87
1	72	490	3.46	0.76	0.92	3.30	-0.64	1183.99	153.83	158.76	1179.06	-71.09
1	72	491	3.26	0.85	0.87	3.24	-0.22	1196.63	170.95	171.66	1195.92	-27.00
1	72	492	3.25	0.88	0.89	3.24	0.18	1198.25	173.83	173.92	1198.16	9.47
1	72	493	3.42	0.84	0.99	3.28	0.59	1191.02	163.35	165.68	1188.70	48.86
1	72	494	3.72	0.78	1.17	3.33	1.00	1167.18	134.87	145.08	1156.97	102.15
1	72	495	3.95	0.73	1.35	3.33	1.27	1110.02	76.51	109.37	1077.15	181.35
1	72	496	3.39	0.55	0.94	3.00	0.97	999.50	-41.46	58.02	900.02	306.04
1	72	497	4.01	-2.03	-1.98	3.97	0.50	751.32	-160.27	68.22	522.83	395.08
1	72	498	-3.31	-5.65	-5.11	-3.85	0.99	451.11	-372.85	26.43	51.83	411.78
1	72	499	12.60	-14.80	12.13	-14.33	-3.55	35.20	-691.24	-489.60	-166.44	-325.31
1	72	500	6.79	-4.82	-3.99	5.96	2.98	501.51	-848.54	-553.37	206.34	-558.00
1	72	501	6.70	-0.24	-9.84e-03	6.47	1.24	972.25	-451.21	-361.92	882.95	-345.15
1	72	502	5.57	0.95	1.12	5.41	-0.85	1130.82	-164.86	-141.91	1107.88	-170.87
1	72	503	4.81	0.55	0.70	4.66	-0.77	1195.57	-11.33	-4.69	1188.94	-89.26
1	72	504	4.23	0.48	0.54	4.18	-0.47	1218.39	71.46	73.14	1216.71	-43.90
1	72	505	3.94	0.50	0.51	3.93	-0.17	1223.23	110.26	110.49	1223.00	-15.94
1	72	506	3.93	0.53	0.53	3.93	0.12	1223.40	117.15	117.18	1223.37	5.50
1	72	507	4.22	0.54	0.60	4.17	0.43	1221.30	94.25	95.01	1220.54	29.26
1	72	508	4.81	0.65	0.80	4.66	0.78	1208.61	34.32	37.92	1205.02	64.86
1	72	509	5.69	1.08	1.35	5.42	1.09	1167.45	-82.50	-69.38	1154.33	127.42
1	72	510	6.40	1.11	1.14	6.37	0.36	1061.02	-308.35	-253.37	1006.04	268.83
1	72	511	4.22	-4.32	-0.26	0.16	-4.26	712.17	-736.82	-523.55	498.90	513.35
1	72	512	10.03	-8.83	9.96	-8.76	1.16	104.60	-687.91	-487.88	-95.43	344.26
1	72	513	2.12	0.64	0.99	1.76	0.63	832.43	342.51	357.37	817.57	84.02
1	72	514	25.20	-25.54	25.02	-25.36	-3.02	587.60	-1684.96	-1684.96	587.60	-6.45e-02
1	72	515	11.97	4.90	10.44	6.43	-2.91	1084.93	-624.59	-624.00	1084.34	31.86
1	72	516	5.99	1.89	1.91	5.97	-0.30	1158.84	-277.49	-276.19	1157.55	43.13
1	72	517	5.16	0.58	0.58	5.16	-1.51e-02	1211.60	-79.17	-78.23	1210.66	34.82
1	72	518	4.51	0.36	0.36	4.51	4.98e-03	1225.18	29.46	29.90	1224.73	23.03
1	72	519	4.17	0.34	0.34	4.17	-1.02e-02	1224.63	80.46	80.55	1224.54	9.93
1	72	520	4.16	0.37	0.37	4.16	-3.54e-02	1223.82	89.44	89.45	1223.81	-3.61
1	72	521	4.48	0.42	0.42	4.48	-6.73e-02	1225.18	59.25	59.49	1224.94	-16.82
1	72	522	5.16	0.65	0.65	5.16	-9.31e-02	1220.05	-18.86	-18.19	1219.38	-28.79
1	72	523	6.17	1.90	1.90	6.17	4.78e-02	1190.03	-165.13	-164.09	1188.99	-37.53
1	72	524	11.16	6.30	10.22	7.25	1.92	1163.68	-411.88	-411.03	1162.83	-36.66
1	72	525	23.44	-11.07	23.33	-10.95	2.01	872.66	-1099.33	-1099.29	872.62	-8.60
1	72	526	2.25	7.91e-02	0.23	2.10	0.55	613.69	380.86	463.60	530.96	111.44
1	72	527	0.76	-1.81	-1.77	0.72	0.29	593.00	159.06	568.30	183.76	100.54
1	72	528	3.09	-3.37	1.22	-1.51	2.93	417.91	5.49	345.88	77.52	-156.59

1	72	529	3.28	-1.43	-0.93	2.77	1.46	575.95	17.23	249.87	343.31	-275.42
1	72	530	3.52	0.70	1.31	2.90	-1.16	824.87	164.03	237.60	751.29	-207.86
1	72	531	3.16	0.27	0.65	2.78	-0.98	994.64	189.68	213.20	971.12	-135.56
1	72	532	2.71	0.17	0.32	2.57	-0.60	1103.90	175.97	184.38	1095.50	-87.91
1	72	533	2.42	0.18	0.22	2.38	-0.31	1161.42	158.33	160.93	1158.83	-50.93
1	72	534	2.30	0.18	0.18	2.29	-0.11	1185.72	147.01	147.39	1185.34	-19.84
1	72	535	2.29	0.17	0.18	2.29	6.38e-02	1188.96	145.30	145.38	1188.88	9.00
1	72	536	2.41	0.16	0.19	2.38	0.26	1173.27	153.76	155.23	1171.79	38.79
1	72	537	2.69	0.16	0.28	2.58	0.53	1130.30	170.85	176.41	1124.73	72.86
1	72	538	3.18	0.28	0.64	2.82	0.95	1043.75	190.59	206.50	1027.84	115.41
1	72	539	15.23	-11.51	15.23	-11.51	-1.43e-02	-292.57	-1076.32	-949.99	-418.91	288.19
1	72	540	8.73	-6.70	-3.55	5.57	-6.22	525.81	-1204.59	-891.33	212.56	666.28
1	72	541	6.02	-0.23	-0.13	5.92	0.78	1010.12	-624.36	-520.93	906.70	397.93
1	72	542	5.66	0.73	0.83	5.55	0.72	1143.77	-247.36	-215.62	1112.03	207.71
1	72	543	4.81	0.48	0.56	4.74	0.56	1192.46	-55.25	-42.50	1179.71	125.49
1	72	544	4.20	0.42	0.45	4.17	0.34	1203.55	47.86	52.26	1199.16	71.17
1	72	545	3.88	0.44	0.45	3.88	0.10	1201.98	96.20	96.93	1201.25	28.35
1	72	546	3.85	0.47	0.48	3.85	-0.13	1201.05	104.45	104.55	1200.95	-10.30
1	72	547	4.12	0.50	0.54	4.08	-0.38	1203.11	75.03	77.27	1200.87	-50.28
1	72	548	4.68	0.61	0.73	4.57	-0.68	1199.80	-1.23	6.78	1191.79	-97.74
1	72	549	5.49	0.94	1.19	5.23	-1.04	1172.43	-150.42	-129.37	1151.39	-165.51
1	72	550	6.16	2.48e-02	0.69	5.49	-1.90	1082.65	-448.17	-377.44	1011.92	-321.35
1	72	551	6.49	-6.65	0.91	-1.07	6.50	764.45	-980.13	-770.49	554.81	-567.26
1	72	552	10.29	-5.44	9.96	-5.11	2.26	-204.07	-1109.54	-968.67	-344.94	-328.19
1	72	553	0.33	-8.99	-8.29	-0.37	2.46	448.87	-737.54	-287.24	-1.43	575.73
1	72	554	4.69	0.44	0.57	4.57	-0.72	700.91	-489.70	-125.14	336.34	548.77
1	72	555	5.42	-0.40	7.15e-02	4.95	1.59	1000.32	-327.82	-116.81	789.31	485.51
1	72	556	4.44	0.39	0.88	3.95	1.32	1097.46	-97.38	-6.52	1006.60	316.71
1	72	557	3.86	0.50	0.83	3.53	1.00	1140.57	38.14	75.64	1103.06	199.85
1	72	558	3.41	0.62	0.76	3.27	0.61	1151.73	113.96	126.53	1139.16	113.53
1	72	559	3.14	0.74	0.76	3.12	0.21	1151.38	149.58	151.60	1149.37	44.86
1	72	560	3.09	0.78	0.79	3.08	-0.18	1150.77	155.26	155.54	1150.48	-16.85
1	72	561	3.27	0.74	0.87	3.14	-0.57	1151.85	132.48	139.00	1145.32	-81.28
1	72	562	3.59	0.69	1.03	3.24	-0.94	1147.27	73.74	97.75	1123.26	-158.74
1	72	563	3.79	0.72	1.18	3.33	-1.09	1120.01	-39.47	23.18	1057.36	-262.15
1	72	564	3.35	0.13	0.13	3.34	-7.26e-02	1040.67	-248.31	-96.65	889.02	-415.31
1	72	565	7.14	-3.02	-2.71	6.83	-1.75	820.66	-461.44	-135.59	494.80	-558.21
1	72	566	-1.59	-5.12	-3.67	-3.05	-1.73	458.37	-712.23	-259.12	5.26	-570.18
1	72	567	1.38	-2.91	-2.04	0.51	1.72	852.76	-292.99	400.98	158.78	559.93
1	72	568	2.29	-1.76	-1.67	2.19	0.63	871.00	-149.55	346.84	374.60	510.09
1	72	569	1.98	-0.18	0.14	1.66	0.77	962.60	-10.19	272.24	680.16	441.57
1	72	570	2.62	0.29	1.05	1.86	1.09	1030.44	108.43	240.56	898.31	323.06
1	72	571	2.68	0.55	1.15	2.08	0.96	1067.27	178.02	232.93	1012.35	214.05
1	72	572	2.46	0.84	1.15	2.16	0.63	1082.26	213.73	231.96	1064.03	124.50
1	72	573	2.22	1.10	1.15	2.16	0.24	1086.13	229.00	231.87	1083.26	49.49
1	72	574	2.16	1.16	1.18	2.14	-0.15	1086.29	230.96	231.39	1085.85	-19.30
1	72	575	2.31	0.99	1.23	2.07	-0.51	1084.03	220.53	230.22	1074.34	-90.97
1	72	576	2.42	0.76	1.26	1.92	-0.76	1074.01	192.33	228.43	1037.90	-174.74
1	72	577	2.17	0.59	1.09	1.68	-0.73	1045.49	134.23	229.34	950.38	-278.61
1	72	578	1.98	-0.23	-9.78e-02	1.85	-0.53	985.56	32.36	249.21	768.71	-399.60
1	72	579	2.36	-2.02	-1.81	2.15	-0.92	891.07	-102.82	309.75	478.50	-489.73
1	72	580	1.68	-2.78	-1.78	0.69	-1.86	843.05	-289.54	397.68	155.83	-553.23
1	72	581	0.24	-2.37	-2.27	0.14	0.48	976.53	-13.40	757.76	205.37	410.74
1	72	582	0.60	-1.55	-1.44	0.49	0.48	924.31	132.98	669.74	387.55	369.66
1	72	583	0.93	-0.36	-3.70e-02	0.61	0.55	916.96	260.33	542.59	634.70	325.07
1	72	584	1.53	0.15	0.92	0.77	0.69	948.31	316.29	443.50	821.09	253.42
1	72	585	1.85	0.48	1.31	1.02	0.67	985.73	325.68	376.39	935.02	175.78
1	72	586	1.82	0.84	1.44	1.22	0.48	1010.79	318.67	334.94	994.51	104.89
1	72	587	1.62	1.18	1.49	1.31	0.20	1022.33	311.07	313.56	1019.84	42.03
1	72	588	1.54	1.27	1.50	1.30	-8.77e-02	1023.77	309.13	309.53	1023.36	-16.93
1	72	589	1.71	0.98	1.48	1.20	-0.34	1015.79	313.66	322.42	1007.03	-77.93
1	72	590	1.70	0.67	1.35	1.03	-0.49	995.19	320.69	354.06	961.82	-146.26
1	72	591	1.38	0.40	0.91	0.87	-0.49	959.58	319.03	409.57	869.05	-223.15
1	72	592	1.05	-0.25	-4.50e-02	0.84	-0.47	919.58	285.03	496.36	708.25	-299.06
1	72	593	0.98	-1.43	-1.22	0.77	-0.68	906.92	185.95	614.35	478.52	-354.03
1	72	594	0.51	-2.33	-2.11	0.28	-0.76	968.80	-15.94	753.73	199.12	-406.85
1	72	595	-5.54e-02	-2.61	-2.61	-6.24e-02	0.13	1015.29	151.94	949.13	218.09	229.65
1	72	596	-1.42e-02	-1.61	-1.58	-4.57e-02	0.22	928.10	312.76	849.05	391.81	205.90
1	72	597	0.28	-0.38	-0.14	3.92e-02	0.32	844.21	468.72	700.60	612.33	182.49
1	72	598	1.01	1.79e-02	0.84	0.19	0.37	853.21	496.53	573.19	776.54	146.52
1	72	599	1.50	0.29	1.38	0.41	0.36	909.34	450.71	475.99	884.05	104.67
1	72	600	1.69	0.55	1.62	0.61	0.27	952.73	403.37	410.85	945.26	63.65
1	72	601	1.72	0.72	1.71	0.74	0.13	974.42	374.91	376.01	973.32	25.65
1	72	602	1.71	0.75	1.71	0.75	-2.96e-02	977.45	369.61	369.80	977.27	-10.64
1	72	603	1.66	0.63	1.64	0.66	-0.16	962.52	387.96	391.97	958.51	-47.86
1	72	604	1.46	0.44	1.40	0.51	-0.25	926.39	427.95	444.02	910.32	-88.04

1	72	605	1.01	0.24	0.88	0.36	-0.29	870.04	478.55	528.22	820.38	-130.29
1	72	606	0.49	-0.21	6.44e-03	0.27	-0.32	830.58	491.13	644.51	677.20	-168.94
1	72	607	0.27	-1.23	-1.13	0.17	-0.37	881.69	381.27	785.84	477.12	-196.92
1	72	608	4.06e-02	-2.49	-2.45	7.49e-03	-0.29	1010.20	147.92	945.37	212.75	-227.37
1	72	609	-0.12	-2.76	-2.76	-0.12	7.78e-02	1024.71	219.44	1022.88	221.26	38.27
1	72	610	-0.19	-1.68	-1.68	-0.19	0.11	921.28	390.47	919.07	392.68	34.17
1	72	611	-5.79e-02	-0.30	-0.19	-0.17	0.12	769.55	598.73	763.92	604.36	30.50
1	72	612	0.84	-4.98e-02	0.83	-3.92e-02	9.67e-02	764.29	622.88	627.47	759.70	25.06
1	72	613	1.42	0.17	1.41	0.17	6.75e-02	864.22	518.93	519.90	863.24	18.35
1	72	614	1.69	0.39	1.69	0.39	4.57e-02	924.35	445.58	445.85	924.08	11.31
1	72	615	1.79	0.52	1.79	0.52	3.08e-02	952.85	405.63	405.67	952.81	4.48
1	72	616	1.79	0.54	1.79	0.54	1.80e-02	956.91	398.58	398.59	956.90	-2.13
1	72	617	1.70	0.46	1.70	0.46	7.10e-04	937.67	424.36	424.51	937.52	-8.78
1	72	618	1.44	0.30	1.44	0.30	-2.91e-02	889.69	483.75	484.34	889.09	-15.59
1	72	619	0.92	0.14	0.91	0.15	-7.68e-02	803.94	576.44	578.64	801.75	-22.22
1	72	620	0.18	-8.80e-02	4.53e-02	4.28e-02	-0.13	719.20	651.47	704.54	666.13	-27.90
1	72	621	-1.18e-02	-1.16	-1.14	-3.39e-02	-0.16	856.00	473.46	853.29	476.17	-32.07
1	72	622	-7.03e-02	-2.63	-2.63	-7.52e-02	-0.11	1020.85	214.75	1019.12	216.47	-37.27
1	72	623	-0.10	-2.76	-2.76	-0.10	6.37e-02	1025.41	190.59	995.74	220.26	-154.56
1	72	624	-0.15	-1.65	-1.65	-0.15	3.91e-02	929.30	357.28	893.38	393.20	-138.78
1	72	625	-4.10e-02	-0.18	-0.11	-0.11	-6.76e-02	814.46	535.82	740.94	609.35	-122.81
1	72	626	0.94	1.39e-02	0.90	5.66e-02	-0.19	815.16	561.67	608.42	768.41	-98.31
1	72	627	1.48	0.26	1.43	0.31	-0.24	886.04	492.41	505.35	873.10	-70.17
1	72	628	1.69	0.52	1.65	0.55	-0.19	937.30	431.36	435.01	933.65	-42.80
1	72	629	1.74	0.69	1.73	0.69	-7.03e-02	962.46	396.46	397.00	961.92	-17.49
1	72	630	1.74	0.71	1.74	0.71	6.54e-02	966.09	390.19	390.27	966.02	6.73
1	72	631	1.71	0.58	1.68	0.61	0.17	949.10	412.77	414.65	947.22	31.70
1	72	632	1.52	0.39	1.47	0.43	0.21	907.43	463.20	471.14	899.49	58.89
1	72	633	1.02	0.21	0.99	0.24	0.16	839.38	533.23	560.95	811.66	87.85
1	72	634	0.17	5.54e-02	0.11	0.11	5.80e-02	792.49	562.96	682.61	672.84	114.66
1	72	635	3.94e-02	-1.13	-1.13	3.90e-02	2.22e-02	873.68	432.33	828.31	477.69	134.03
1	72	636	-3.82e-02	-2.64	-2.64	-3.83e-02	1.96e-02	1021.13	185.54	991.60	215.07	154.27
1	72	637	4.07e-02	-2.62	-2.61	3.49e-02	-0.12	1007.18	65.68	860.59	212.27	-341.36
1	72	638	0.19	-1.53	-1.53	0.18	-8.92e-02	938.82	219.67	766.26	392.24	-307.11
1	72	639	0.49	-0.13	0.11	0.26	-0.30	898.79	358.07	628.35	628.50	-270.36
1	72	640	1.42	0.16	1.06	0.51	-0.57	916.31	403.12	515.68	803.76	-212.35
1	72	641	1.79	0.46	1.41	0.85	-0.61	955.77	391.31	433.84	913.24	-148.99
1	72	642	1.78	0.82	1.50	1.10	-0.43	986.08	367.06	380.40	972.74	-89.86
1	72	643	1.61	1.15	1.53	1.23	-0.17	1001.19	350.06	352.11	999.14	-36.42
1	72	644	1.59	1.20	1.55	1.24	0.12	1003.34	346.71	347.02	1003.03	14.19
1	72	645	1.76	0.92	1.55	1.13	0.37	993.15	357.71	364.72	986.13	66.37
1	72	646	1.77	0.62	1.48	0.92	0.51	968.17	379.08	406.49	940.76	124.08
1	72	647	1.41	0.39	1.14	0.65	0.45	928.96	397.70	475.67	850.99	188.00
1	72	648	0.65	8.68e-02	0.24	0.50	0.25	895.52	379.81	576.38	698.94	250.47
1	72	649	0.47	-1.18	-1.15	0.44	0.22	909.89	277.07	706.04	480.92	295.71
1	72	650	0.20	-2.56	-2.51	0.16	0.34	1000.47	61.01	855.60	205.88	339.29
1	72	651	0.60	-2.81	-2.52	0.32	-0.95	925.16	-163.64	582.57	178.95	-505.61
1	72	652	1.29	-1.59	-1.59	1.29	-3.88e-02	912.38	-14.13	512.08	386.17	-458.96
1	72	653	1.50	0.11	0.56	1.05	-0.65	960.17	121.51	413.00	668.68	-399.37
1	72	654	2.53	0.27	1.27	1.53	-1.12	1005.97	213.46	350.23	869.20	-299.48
1	72	655	2.58	0.55	1.25	1.88	-0.97	1038.21	255.92	313.03	981.11	-203.49
1	72	656	2.36	0.87	1.21	2.01	-0.63	1054.86	272.45	291.44	1035.87	-120.39
1	72	657	2.12	1.14	1.20	2.06	-0.23	1060.89	277.57	280.57	1057.90	-48.34
1	72	658	2.09	1.19	1.22	2.06	0.17	1061.55	278.11	278.56	1061.10	18.67
1	72	659	2.30	0.99	1.28	2.01	0.55	1057.89	274.91	284.92	1047.88	87.96
1	72	660	2.48	0.74	1.38	1.85	0.84	1046.09	262.86	300.13	1008.82	166.75
1	72	661	2.31	0.57	1.39	1.49	0.87	1019.85	229.34	327.26	921.93	260.42
1	72	662	1.54	0.27	0.51	1.31	0.49	975.25	154.35	377.46	752.14	365.20
1	72	663	1.39	-1.45	-1.42	1.36	0.30	916.87	32.33	464.73	484.47	442.16
1	72	664	0.81	-2.84	-2.47	0.45	1.10	914.26	-164.46	576.75	173.06	500.17
1	72	665	-0.30	-7.88	-7.82	-0.36	-0.66	604.06	-516.51	33.17	54.38	-560.19
1	72	666	2.93	-0.30	0.66	1.98	1.47	787.29	-305.68	116.12	365.49	-532.07
1	72	667	5.38	-0.11	1.09	4.17	-2.27	1008.33	-155.66	94.65	758.02	-478.23
1	72	668	4.32	0.38	1.02	3.68	-1.45	1079.88	12.77	128.22	964.44	-331.45
1	72	669	3.73	0.51	0.91	3.33	-1.07	1117.35	113.60	162.56	1068.40	-216.20
1	72	670	3.28	0.65	0.82	3.11	-0.65	1128.52	170.11	186.70	1111.93	-124.99
1	72	671	3.02	0.78	0.80	3.00	-0.24	1129.23	196.48	199.13	1126.58	-49.64
1	72	672	3.00	0.81	0.83	2.99	0.17	1128.87	200.99	201.38	1128.47	19.10
1	72	673	3.23	0.76	0.91	3.08	0.58	1129.18	184.93	193.65	1120.46	90.32
1	72	674	3.63	0.69	1.08	3.24	1.00	1124.13	142.32	173.92	1092.53	173.29
1	72	675	4.01	0.69	1.32	3.38	1.31	1100.53	58.83	139.14	1020.22	277.87
1	72	676	3.61	0.71	1.11	3.20	1.01	1042.60	-98.10	87.72	856.78	421.23
1	72	677	4.35	-1.43	-1.35	4.27	0.67	865.48	-267.64	93.91	503.94	528.16
1	72	678	-3.06	-4.90	-4.74	-3.22	0.51	604.24	-512.54	42.68	49.01	558.38
1	72	679	12.58	-13.98	12.48	-13.87	-1.67	185.66	-794.50	-453.85	-155.00	-466.74
1	72	680	7.64	-5.20	-4.16	6.60	3.51	624.35	-932.63	-524.48	216.19	-684.76

1	72	681	6.95	0.40	0.55	6.80	1.00	1023.92	-483.03	-319.32	860.21	-468.94
1	72	682	5.57	0.95	1.05	5.46	-0.69	1138.78	-176.09	-114.27	1076.95	-278.34
1	72	683	4.68	0.53	0.63	4.58	-0.65	1182.39	-8.41	17.22	1156.75	-172.83
1	72	684	4.07	0.44	0.49	4.02	-0.41	1192.95	83.45	92.26	1184.14	-98.52
1	72	685	3.76	0.47	0.48	3.76	-0.16	1191.75	126.90	128.32	1190.33	-38.86
1	72	686	3.76	0.49	0.50	3.75	8.89e-02	1190.90	134.62	134.84	1190.67	15.35
1	72	687	4.05	0.52	0.55	4.02	0.35	1192.59	108.91	113.64	1187.86	71.43
1	72	688	4.69	0.64	0.75	4.58	0.65	1189.27	42.24	58.91	1172.60	137.26
1	72	689	5.67	1.12	1.31	5.48	0.91	1165.12	-85.63	-43.43	1122.92	225.82
1	72	690	6.72	1.60	1.64	6.67	0.47	1095.84	-328.73	-214.79	981.90	386.45
1	72	691	5.31	-5.11	-0.42	0.62	-5.19	799.86	-803.35	-491.70	488.21	634.44
1	72	692	9.21	-7.62	9.18	-7.59	-0.69	241.16	-792.18	-459.12	-91.91	482.95
1	72	693	2.72	-1.31	0.66	0.75	-2.01	659.62	76.18	230.21	505.59	257.18
1	72	694	23.56	-25.28	23.54	-25.26	-0.84	566.11	-1647.94	-1641.42	559.59	-119.99
1	72	695	10.98	5.34	10.34	5.98	-1.78	1080.88	-595.55	-590.20	1075.52	-94.57
1	72	696	5.62	1.98	1.98	5.62	2.18e-02	1162.47	-257.12	-253.41	1158.76	-72.43
1	72	697	4.92	0.64	0.64	4.92	0.12	1220.26	-64.38	-62.11	1218.00	-53.88
1	72	698	4.34	0.41	0.41	4.34	5.62e-02	1237.16	40.85	41.84	1236.16	-34.50
1	72	699	4.04	0.38	0.38	4.04	-8.69e-03	1238.34	90.13	90.30	1238.17	-14.12
1	72	700	4.03	0.40	0.40	4.03	-6.97e-02	1237.81	98.77	98.81	1237.77	6.75
1	72	701	4.32	0.45	0.46	4.32	-0.14	1238.03	69.55	70.20	1237.38	27.56
1	72	702	4.95	0.70	0.71	4.94	-0.24	1230.27	-6.11	-4.25	1228.41	47.85
1	72	703	5.86	1.96	1.98	5.84	-0.25	1196.03	-148.10	-144.68	1192.61	67.72
1	72	704	10.39	6.56	10.10	6.85	1.02	1162.44	-387.20	-382.67	1157.92	83.58
1	72	705	22.48	-11.70	22.48	-11.70	3.36e-02	861.30	-1073.12	-1065.59	853.77	120.47
1	72	706	3.13	-3.64	-1.08	0.57	-3.28	408.99	-5.57	332.43	70.98	160.86
1	72	707	6.43	-4.62	6.21	-4.40	1.57	443.70	-243.20	-185.51	386.01	-190.53
1	72	708	4.77	2.39	3.30	3.87	-1.16	860.12	0.98	61.41	799.69	-219.70
1	72	709	3.50	0.17	0.27	3.39	-0.58	1046.30	45.49	78.81	1012.98	-179.56
1	72	710	2.75	1.62e-02	5.10e-02	2.72	-0.31	1146.76	61.05	75.33	1132.48	-123.70
1	72	711	2.38	3.08e-02	4.34e-02	2.37	-0.17	1194.44	62.46	67.19	1189.70	-73.06
1	72	712	2.21	4.06e-02	4.26e-02	2.21	-6.64e-02	1213.13	60.76	61.47	1212.43	-28.51
1	72	713	2.19	3.90e-02	3.93e-02	2.19	2.67e-02	1215.54	60.48	60.63	1215.38	13.25
1	72	714	2.31	2.69e-02	3.30e-02	2.31	0.12	1203.81	62.34	65.14	1201.01	56.48
1	72	715	2.63	1.06e-02	3.01e-02	2.61	0.23	1169.62	63.88	73.98	1159.52	105.17
1	72	716	3.34	0.16	0.23	3.27	0.46	1094.18	58.44	84.06	1068.56	160.87
1	72	717	4.93	2.35	3.22	4.06	1.22	957.34	40.81	92.57	905.57	211.57
1	72	718	6.72	-2.19	6.38	-1.85	-1.70	644.45	-88.97	-21.55	577.02	211.91
1	72	719	13.53	-11.53	13.34	-11.34	2.14	-382.99	-934.21	-899.39	-417.80	134.08
1	72	720	7.33	-6.73	-3.90	4.51	-5.63	390.53	-1054.39	-855.63	191.77	497.69
1	72	721	4.68	-0.29	-0.27	4.67	0.27	954.46	-546.71	-504.25	912.01	248.85
1	72	722	5.09	0.84	0.97	4.97	0.71	1142.19	-206.60	-201.19	1136.77	85.32
1	72	723	4.52	0.61	0.69	4.44	0.56	1215.75	-34.20	-33.37	1214.92	32.32
1	72	724	4.05	0.52	0.55	4.02	0.32	1241.34	57.00	57.10	1241.24	10.86
1	72	725	3.80	0.51	0.51	3.80	8.04e-02	1246.98	99.38	99.39	1246.97	3.15
1	72	726	3.78	0.53	0.54	3.77	-0.15	1247.24	106.52	106.53	1247.24	0.47
1	72	727	3.99	0.58	0.62	3.95	-0.40	1244.68	80.61	80.62	1244.66	-3.91
1	72	728	4.43	0.71	0.85	4.29	-0.70	1230.12	13.04	13.29	1229.87	-17.50
1	72	729	5.00	1.01	1.31	4.70	-1.05	1182.39	-120.96	-118.67	1180.10	-54.53
1	72	730	4.82	0.11	0.63	4.29	-1.48	1045.83	-388.17	-364.46	1022.12	-182.84
1	72	731	5.01	-6.10	0.15	-1.24	5.51	669.81	-865.04	-745.92	550.69	-410.66
1	72	732	10.15	-5.93	10.14	-5.92	0.25	-290.75	-953.00	-903.93	-339.83	-173.46
1	72	733	1.00	-9.26	-8.03	-0.23	3.34	291.99	-511.51	-233.70	14.18	382.16
1	72	734	4.75	-0.51	-0.35	4.59	-0.90	554.02	-301.61	-94.92	347.34	366.23
1	72	735	4.73	-0.45	-0.19	4.47	1.13	923.56	-207.17	-102.11	818.51	328.25
1	72	736	3.91	0.64	0.97	3.57	0.99	1092.25	-35.94	-4.43	1060.75	185.88
1	72	737	3.60	0.73	0.96	3.37	0.78	1183.14	61.40	70.45	1174.10	100.31
1	72	738	3.36	0.76	0.85	3.28	0.46	1223.04	114.88	117.09	1220.84	49.38
1	72	739	3.22	0.79	0.80	3.21	0.14	1236.75	139.82	140.12	1236.45	18.12
1	72	740	3.19	0.81	0.83	3.18	-0.16	1238.41	143.63	143.66	1238.38	-5.56
1	72	741	3.26	0.84	0.93	3.16	-0.47	1230.48	127.24	128.18	1229.54	-32.26
1	72	742	3.37	0.88	1.13	3.11	-0.75	1203.56	85.07	89.91	1198.71	-73.46
1	72	743	3.29	0.94	1.26	2.97	-0.80	1136.41	2.44	21.04	1117.81	-144.03
1	72	744	2.92	-0.16	-0.13	2.89	0.31	993.73	-155.59	-88.59	926.73	-269.29
1	72	745	6.29	-3.56	-3.40	6.12	-1.26	686.69	-294.72	-111.70	503.66	-382.27
1	72	746	-0.86	-5.97	-3.54	-3.29	-2.55	296.05	-488.74	-207.47	14.78	-376.33
1	72	747	1.57	-3.04	-2.05	0.59	1.89	649.34	-64.71	407.60	177.03	337.90
1	72	748	2.32	-1.87	-1.77	2.22	0.64	687.20	63.25	344.75	405.70	310.48
1	72	749	1.86	-8.41e-02	3.18e-02	1.74	0.46	856.18	137.47	256.25	737.40	266.95
1	72	750	2.30	0.73	1.09	1.93	0.66	1024.49	173.44	213.60	984.33	180.46
1	72	751	2.52	0.95	1.21	2.26	0.58	1133.38	188.07	200.55	1120.90	107.88
1	72	752	2.56	1.05	1.14	2.47	0.36	1189.82	194.88	198.18	1186.51	57.24
1	72	753	2.56	1.07	1.09	2.55	0.13	1212.90	197.77	198.24	1212.44	21.69
1	72	754	2.53	1.09	1.10	2.53	-0.10	1216.06	197.73	197.78	1216.00	-7.69
1	72	755	2.46	1.11	1.18	2.39	-0.30	1201.58	194.63	196.22	1199.99	-39.93
1	72	756	2.30	1.10	1.27	2.13	-0.41	1159.73	187.45	194.85	1152.34	-84.46

1	72	757	1.88	0.97	1.09	1.77	-0.30	1071.14	173.36	199.40	1045.10	-150.66
1	72	758	1.90	-0.24	-0.23	1.89	-0.12	917.53	146.54	228.37	835.70	-237.47
1	72	759	2.33	-2.14	-1.99	2.19	-0.79	726.40	93.04	302.76	516.67	-298.07
1	72	760	1.87	-2.89	-1.75	0.73	-2.03	637.94	-61.51	404.91	171.53	-329.69
1	72	761	0.31	-2.20	-2.10	0.21	0.49	744.75	167.49	687.26	224.97	172.86
1	72	762	0.73	-1.32	-1.26	0.66	0.36	688.07	334.80	593.96	428.90	156.17
1	72	763	0.97	9.59e-02	0.13	0.93	0.18	774.90	400.82	460.44	715.27	136.93
1	72	764	1.31	0.95	1.03	1.23	0.15	958.66	342.81	360.40	941.07	102.60
1	72	765	1.68	1.24	1.30	1.62	0.15	1088.81	292.76	298.51	1083.05	67.45
1	72	766	1.95	1.27	1.29	1.93	0.10	1159.73	263.23	264.88	1158.07	38.48
1	72	767	2.09	1.24	1.24	2.09	4.49e-02	1190.26	249.09	249.33	1190.01	15.12
1	72	768	2.09	1.23	1.23	2.09	-8.81e-03	1194.48	246.31	246.34	1194.45	-5.80
1	72	769	1.94	1.27	1.27	1.93	-3.56e-02	1174.71	254.17	255.03	1173.86	-28.07
1	72	770	1.66	1.25	1.25	1.66	-1.12e-02	1120.48	275.56	279.19	1116.84	-55.31
1	72	771	1.38	0.91	0.91	1.37	5.39e-02	1012.37	316.44	328.09	1000.72	-89.26
1	72	772	1.24	1.58e-02	1.60e-02	1.24	-1.50e-02	840.29	377.10	413.57	803.83	-124.74
1	72	773	1.13	-1.18	-1.09	1.04	-0.44	682.55	386.22	536.26	532.51	-148.15
1	72	774	0.61	-2.10	-1.85	0.37	-0.77	737.78	162.99	683.81	216.95	-167.64
1	72	775	9.29e-02	-2.18	-2.17	8.42e-02	-0.14	741.06	228.41	740.54	228.93	-16.31
1	72	776	0.40	-1.15	-1.13	0.38	-0.15	645.92	430.71	644.76	431.87	-15.77
1	72	777	0.83	0.13	0.27	0.69	-0.28	713.86	506.86	507.41	713.31	-10.65
1	72	778	1.43	0.68	1.04	1.07	-0.37	933.51	402.30	402.30	933.51	0.26
1	72	779	1.73	1.03	1.26	1.50	-0.33	1072.91	334.42	334.49	1072.84	7.13
1	72	780	1.87	1.18	1.25	1.81	-0.20	1147.40	295.66	295.73	1147.33	7.53
1	72	781	1.97	1.20	1.20	1.96	-6.21e-02	1179.44	277.08	277.09	1179.42	3.73
1	72	782	1.98	1.18	1.19	1.97	7.26e-02	1183.79	273.70	273.71	1183.79	-1.71
1	72	783	1.92	1.13	1.20	1.85	0.22	1162.86	284.78	284.83	1162.81	-6.58
1	72	784	1.81	0.96	1.16	1.61	0.36	1105.95	313.82	313.91	1105.87	-8.31
1	72	785	1.58	0.64	0.91	1.31	0.43	992.17	368.89	368.91	992.15	-3.80
1	72	786	1.16	0.12	0.24	1.05	0.32	801.68	459.41	459.56	801.53	7.23
1	72	787	0.72	-0.76	-0.75	0.71	0.11	591.19	531.89	585.92	537.17	16.88
1	72	788	0.19	-1.93	-1.93	0.19	-4.39e-03	738.50	221.48	737.72	222.26	20.01
1	72	789	0.45	-2.37	-2.05	0.14	-0.89	656.10	117.00	577.63	195.47	-190.12
1	72	790	1.20	-1.21	-1.11	1.09	-0.49	643.54	277.17	504.63	416.08	-177.75
1	72	791	1.57	-8.52e-02	0.46	1.03	-0.78	785.75	346.78	402.36	730.17	-145.98
1	72	792	2.27	0.28	1.05	1.50	-0.97	972.30	328.56	340.49	960.38	-86.79
1	72	793	2.35	0.61	1.06	1.90	-0.76	1092.90	304.72	307.09	1090.53	-43.15
1	72	794	2.25	0.86	1.02	2.09	-0.44	1156.19	287.54	287.94	1155.79	-18.65
1	72	795	2.17	0.97	0.99	2.16	-0.15	1182.84	278.13	278.17	1182.80	-6.02
1	72	796	2.17	0.96	0.98	2.16	0.12	1186.32	276.30	276.30	1186.31	1.97
1	72	797	2.24	0.84	0.97	2.11	0.41	1168.89	282.00	282.15	1168.73	11.89
1	72	798	2.33	0.62	0.97	1.98	0.69	1121.15	295.33	296.49	1119.99	30.91
1	72	799	2.24	0.36	0.92	1.68	0.86	1024.08	315.84	322.33	1017.60	67.46
1	72	800	1.85	-3.22e-02	0.39	1.42	0.79	858.92	339.34	371.27	826.99	124.78
1	72	801	1.39	-0.91	-0.69	1.17	0.67	672.67	319.52	458.80	533.39	172.59
1	72	802	0.44	-1.96	-1.74	0.23	0.69	656.45	112.86	576.14	193.18	192.89
1	72	803	-0.44	-5.23	-4.93	-0.75	-1.16	360.66	-172.46	114.13	74.07	-265.80
1	72	804	2.69	0.57	0.63	2.63	-0.35	567.41	-15.55	184.13	367.73	-276.65
1	72	805	3.52	-0.24	0.55	2.73	-1.53	865.12	83.49	152.61	795.99	-221.93
1	72	806	3.73	-4.27e-02	0.74	2.94	-1.53	1033.47	191.96	208.37	1017.05	-116.39
1	72	807	3.15	0.29	0.64	2.80	-0.94	1129.14	237.31	241.20	1125.24	-58.83
1	72	808	2.74	0.55	0.67	2.62	-0.50	1176.11	255.39	256.19	1175.31	-27.15
1	72	809	2.54	0.68	0.69	2.52	-0.16	1194.57	261.52	261.62	1194.47	-9.34
1	72	810	2.52	0.68	0.69	2.51	0.13	1196.73	262.26	262.27	1196.72	3.25
1	72	811	2.68	0.56	0.65	2.59	0.44	1184.70	258.61	258.96	1184.35	17.98
1	72	812	3.03	0.33	0.61	2.74	0.83	1150.34	246.29	248.31	1148.31	42.78
1	72	813	3.48	5.74e-02	0.67	2.86	1.31	1076.74	212.90	222.02	1067.63	88.27
1	72	814	2.82	0.15	0.60	2.38	0.99	937.71	126.15	165.53	898.34	174.37
1	72	815	4.81	-1.30	-0.62	4.13	1.92	692.96	7.55	162.68	537.83	286.82
1	72	816	-1.46	-2.35	-2.17	-1.63	0.35	376.56	-161.13	133.50	81.93	267.61
1	72	817	8.89	-3.11	8.89	-3.11	0.19	-338.13	-515.84	-480.57	-373.40	-70.88
1	72	818	4.31	-3.00	0.60	0.72	3.65	515.28	-588.88	-420.27	346.66	-397.17
1	72	819	6.71	-1.85	0.39	4.48	-3.76	908.63	-131.52	-102.70	879.82	-170.71
1	72	820	4.89	-0.46	-0.24	4.67	-1.06	1073.26	85.72	90.24	1068.74	-66.64
1	72	821	3.72	0.10	0.19	3.63	-0.55	1155.72	182.36	183.44	1154.64	-32.50
1	72	822	3.09	0.34	0.37	3.06	-0.28	1191.87	226.15	226.39	1191.64	-15.09
1	72	823	2.82	0.45	0.45	2.81	-9.12e-02	1204.51	243.72	243.75	1204.49	-5.29
1	72	824	2.79	0.45	0.46	2.79	8.27e-02	1205.74	246.35	246.36	1205.74	1.76
1	72	825	3.00	0.36	0.39	2.97	0.26	1197.59	235.87	235.97	1197.48	9.98
1	72	826	3.53	0.15	0.23	3.45	0.49	1172.13	205.26	205.84	1171.55	23.63
1	72	827	4.55	-0.32	-0.13	4.36	0.94	1111.26	135.30	137.85	1108.71	49.89
1	72	828	6.54	-1.78	1.71e-02	4.74	3.42	986.29	-20.16	-3.17	969.30	129.66
1	72	829	4.40	-1.85	3.74	-1.19	-1.93	731.63	-382.69	-296.89	645.82	297.07
1	72	830	5.62	-1.26	4.81	-0.44	-2.23	-269.95	-557.39	-509.53	-317.81	107.08
1	72	831	28.36	-6.39	28.36	-6.39	-0.33	613.52	-596.23	-593.20	610.48	-60.54
1	72	832	12.29	-7.16e-02	-5.09e-03	12.23	0.90	993.48	-134.04	-134.04	993.47	-1.33

1	72	833	4.91	0.64	0.65	4.90	-0.14	1081.64	76.91	76.97	1081.58	-7.89
1	72	834	3.64	0.23	0.24	3.63	-0.13	1159.94	172.10	172.11	1159.92	-4.17
1	72	835	3.10	0.31	0.31	3.10	-8.97e-02	1194.54	218.73	218.74	1194.53	-2.11
1	72	836	2.86	0.38	0.38	2.86	-2.82e-02	1206.15	238.00	238.00	1206.15	-0.86
1	72	837	2.84	0.39	0.39	2.84	4.37e-02	1207.23	240.92	240.92	1207.23	0.11
1	72	838	3.02	0.33	0.33	3.01	0.10	1199.83	229.41	229.41	1199.83	1.32
1	72	839	3.46	0.26	0.26	3.45	0.13	1175.83	196.84	196.85	1175.82	3.30
1	72	840	4.52	0.57	0.57	4.52	0.10	1119.04	128.04	128.08	1119.00	6.65
1	72	841	10.32	0.30	0.39	10.24	-0.91	1053.69	-30.43	-30.42	1053.69	1.48
1	72	842	20.64	4.59	20.62	4.61	-0.59	807.96	-193.47	-192.44	806.93	32.12
1	72	843	8.10	-1.60	6.35	0.16	-3.73	-579.46	-813.91	-810.32	-583.06	28.82
1	72	844	4.13	-4.56	1.10	-1.53	-4.14	528.59	-710.50	-588.45	406.54	369.24
1	72	845	6.13	-2.39	0.42	3.32	4.01	901.00	-176.00	-160.51	885.51	128.24
1	72	846	4.63	-0.44	-0.26	4.45	0.92	1076.08	61.35	62.85	1074.59	38.87
1	72	847	3.62	0.15	0.17	3.60	0.26	1158.34	167.56	167.84	1158.06	16.67
1	72	848	3.09	0.31	0.32	3.09	5.50e-02	1193.39	215.64	215.69	1193.34	7.15
1	72	849	2.86	0.37	0.37	2.86	1.35e-02	1205.26	235.10	235.11	1205.26	2.27
1	72	850	2.83	0.38	0.38	2.83	1.77e-02	1206.41	238.02	238.02	1206.41	-1.07
1	72	851	3.00	0.33	0.33	3.00	-1.26e-02	1198.93	226.26	226.28	1198.91	-4.89
1	72	852	3.43	0.20	0.21	3.42	-0.18	1174.65	192.24	192.37	1174.51	-11.63
1	72	853	4.29	-0.27	-0.14	4.16	-0.74	1114.35	114.52	115.26	1113.62	-27.16
1	72	854	5.62	-1.87	0.14	3.61	-3.32	981.85	-56.62	-47.97	973.20	-94.37
1	72	855	3.93	-2.75	3.71	-2.53	1.18	741.84	-450.31	-403.19	694.72	-232.28
1	72	856	7.40	-3.85	2.92	0.63	5.51	-502.78	-857.14	-841.13	-518.79	-73.60
1	72	857	0.83	-5.38	-4.34	-0.20	2.32	264.61	-243.04	-20.08	41.65	251.95
1	72	858	4.24	-0.12	-8.13e-03	4.12	0.69	513.69	-122.83	63.28	327.58	289.53
1	72	859	2.49	8.01e-02	0.15	2.42	0.40	858.39	-9.41	48.26	800.73	216.14
1	72	860	3.19	0.40	0.78	2.82	0.95	1040.71	132.29	145.26	1027.74	107.77
1	72	861	2.93	0.46	0.56	2.83	0.50	1135.51	196.66	199.68	1132.49	53.21
1	72	862	2.76	0.45	0.47	2.74	0.21	1179.37	225.55	226.17	1178.74	24.45
1	72	863	2.68	0.43	0.43	2.68	7.31e-02	1195.60	236.94	237.01	1195.53	8.26
1	72	864	2.66	0.43	0.43	2.66	-1.29e-02	1197.52	238.54	238.55	1197.51	-3.40
1	72	865	2.71	0.46	0.46	2.70	-0.13	1187.42	231.47	231.77	1187.12	-16.79
1	72	866	2.82	0.49	0.55	2.76	-0.37	1156.42	210.59	212.20	1154.82	-38.94
1	72	867	2.96	0.50	0.75	2.70	-0.75	1085.21	161.55	168.67	1078.09	-80.76
1	72	868	2.09	0.40	0.41	2.08	-0.12	937.84	48.85	80.20	906.49	-163.98
1	72	869	5.35	-1.85	-1.35	4.85	-1.82	667.04	-99.38	44.61	523.05	-299.37
1	72	870	0.30	-2.56	-1.47	-0.80	-1.39	281.11	-228.17	3.55	49.39	-253.61
1	72	871	0.91	-2.06	-1.44	0.30	1.20	569.36	71.19	463.17	177.39	204.02
1	72	872	1.71	-1.02	-0.86	1.54	0.64	594.07	204.32	400.87	397.53	194.87
1	72	873	1.41	0.33	0.43	1.31	0.31	782.21	257.76	313.75	726.23	161.95
1	72	874	1.79	0.87	0.98	1.68	0.30	980.09	256.97	270.57	966.49	98.23
1	72	875	2.16	0.79	0.83	2.12	0.22	1098.67	251.59	254.69	1095.56	51.20
1	72	876	2.35	0.62	0.62	2.34	0.11	1157.21	246.52	247.14	1156.59	23.77
1	72	877	2.42	0.51	0.51	2.42	4.60e-02	1180.59	243.17	243.24	1180.53	7.99
1	72	878	2.42	0.50	0.50	2.42	8.63e-03	1183.69	242.48	242.49	1183.68	-3.33
1	72	879	2.36	0.59	0.59	2.35	-4.12e-02	1169.03	244.51	244.81	1168.74	-16.53
1	72	880	2.17	0.76	0.78	2.16	-0.13	1126.45	248.36	250.05	1124.77	-38.45
1	72	881	1.82	0.88	0.92	1.79	-0.18	1033.68	252.81	260.56	1025.92	-77.43
1	72	882	1.66	0.38	0.44	1.59	-0.28	863.84	257.53	290.58	830.79	-137.65
1	72	883	1.72	-0.79	-0.56	1.49	-0.72	646.03	237.31	361.65	521.69	-188.04
1	72	884	0.94	-1.73	-1.18	0.40	-1.08	570.10	69.46	463.11	176.45	-205.22
1	72	885	0.18	-1.48	-1.46	0.15	0.21	640.89	204.79	635.41	210.27	48.59
1	72	886	0.78	-0.52	-0.50	0.76	0.17	563.14	404.29	550.68	416.74	42.69
1	72	887	1.08	0.61	0.68	1.01	-0.17	714.79	422.78	427.51	710.06	36.85
1	72	888	1.64	0.85	1.00	1.49	-0.31	937.14	337.10	338.13	936.10	24.92
1	72	889	1.96	0.79	0.83	1.91	-0.22	1072.19	283.15	283.34	1072.00	12.25
1	72	890	2.17	0.62	0.62	2.16	-0.12	1141.24	252.34	252.36	1141.22	4.37
1	72	891	2.27	0.50	0.50	2.27	-3.05e-02	1169.88	237.32	237.32	1169.88	0.98
1	72	892	2.29	0.49	0.49	2.29	5.19e-02	1173.80	234.91	234.91	1173.80	-0.44
1	72	893	2.22	0.57	0.58	2.21	0.14	1155.65	244.60	244.60	1155.64	-2.82
1	72	894	2.05	0.73	0.78	2.00	0.25	1104.69	268.22	268.32	1104.59	-8.94
1	72	895	1.77	0.83	0.94	1.66	0.31	998.03	311.41	311.99	997.46	-19.89
1	72	896	1.37	0.65	0.70	1.32	0.18	808.61	384.42	386.86	806.17	-32.07
1	72	897	1.03	-0.17	-0.15	1.01	-0.13	556.81	470.09	498.37	528.53	-40.65
1	72	898	0.30	-1.36	-1.33	0.27	-0.22	639.94	200.45	634.31	206.07	-49.42
1	72	899	0.87	-2.56	-2.55	0.86	-0.20	590.22	161.45	565.00	186.67	-100.88
1	72	900	0.99	0.40	0.42	0.97	-0.11	580.74	339.43	512.55	407.62	-108.65
1	72	901	2.44	0.29	0.91	1.82	-0.97	748.25	368.04	395.03	721.26	-97.63
1	72	902	2.46	0.42	0.87	2.01	-0.84	947.26	308.01	314.61	940.66	-64.61
1	72	903	2.34	0.45	0.64	2.16	-0.56	1074.94	257.31	259.41	1072.84	-41.41
1	72	904	2.28	0.41	0.46	2.24	-0.30	1142.32	224.01	224.65	1141.68	-24.23
1	72	905	2.27	0.36	0.37	2.27	-9.63e-02	1170.91	206.69	206.79	1170.82	-9.62
1	72	906	2.28	0.35	0.35	2.28	7.71e-02	1174.81	204.02	204.04	1174.80	4.21
1	72	907	2.31	0.38	0.42	2.27	0.27	1156.47	215.82	216.17	1156.11	18.21
1	72	908	2.38	0.43	0.59	2.23	0.52	1106.24	243.01	244.32	1104.92	33.67

1	72	909	9.30	-2.95	-2.14	8.49	3.04	829.97	-940.35	-622.51	512.13	679.45
1	72	910	-0.96	-4.29	-1.71	-3.54	1.39	264.72	-1208.13	-847.74	-95.67	633.18
1	72	911	3.78	-27.81	-19.76	-4.26	13.76	295.19	-489.26	-468.91	274.83	124.72
1	72	912	19.27	-18.09	19.12	-17.94	2.39	846.08	-1636.07	-1636.06	846.07	-4.23
1	72	913	1.49	-6.59	-5.97	0.87	-2.14	750.52	-2209.17	-2208.32	749.67	-50.16
1	72	914	5.18	-10.95	-6.86	1.10	-7.01	730.38	-2113.78	-2112.09	728.69	-69.38
1	72	915	7.61	-12.66	7.21	-12.26	-2.82	597.70	-925.75	-925.75	597.70	-6.84e-02
1	72	916	0.92	-13.77	-10.54	-2.30	-6.08	187.50	-246.10	-239.37	180.76	-53.63
1	72	917	6.53	0.46	3.42	3.57	3.03	172.38	-187.33	44.36	-59.31	-172.23
1	72	918	0.55	-5.46	-4.27	-0.63	-2.39	803.90	-125.05	744.93	-66.08	-226.51
1	72	919	-0.66	-5.61	-5.61	-0.67	4.88e-02	1105.20	-58.18	1087.38	-40.36	-142.88
1	72	920	-0.17	-5.05	-5.05	-0.18	7.79e-02	1231.01	-36.65	1227.57	-33.21	-65.94
1	72	921	-6.88e-02	-4.62	-4.62	-6.90e-02	2.41e-02	1251.74	-31.80	1251.62	-31.69	11.99
1	72	922	-6.57e-02	-4.36	-4.36	-6.58e-02	-1.82e-02	1184.27	-38.97	1177.59	-32.29	90.16
1	72	923	-0.12	-4.13	-4.13	-0.12	-4.47e-02	1020.21	-60.91	993.80	-34.50	166.91
1	72	924	-0.38	-3.59	-3.59	-0.38	-1.45e-02	731.28	-112.61	657.71	-39.04	238.05
1	72	925	-1.04	-2.09	-1.85	-1.29	0.44	314.96	-287.45	77.95	-50.43	294.28
1	72	926	32.41	-4.15	22.40	5.85	-16.30	-158.16	-2777.69	-2768.56	-167.29	-154.39
1	72	927	3.70	-5.30	-4.76	3.16	-2.15	-94.80	-194.86	-194.77	-94.90	-3.06
1	72	928	28.29	-27.37	13.60	-12.68	24.53	-491.23	-2575.99	-2548.45	-518.77	238.02
1	72	929	9.76	-3.09	1.89	4.78	-6.26	161.42	-876.33	-712.34	-2.57	-378.54
1	72	930	-0.60	-3.19	-3.09	-0.70	-0.50	372.84	-229.36	188.87	-45.39	-277.38
1	72	931	-0.29	-4.17	-4.17	-0.29	1.65e-02	757.77	-96.30	700.58	-39.10	-213.49
1	72	932	-0.11	-4.30	-4.30	-0.11	4.80e-02	999.42	-53.93	980.80	-35.30	-138.81
1	72	933	-6.70e-02	-4.20	-4.20	-6.72e-02	2.45e-02	1111.39	-36.54	1108.26	-33.41	-59.80
1	72	934	-6.72e-02	-4.07	-4.07	-6.72e-02	-5.09e-03	1117.68	-33.27	1117.34	-32.93	19.71
1	72	935	-0.11	-3.91	-3.91	-0.11	-3.00e-02	1021.51	-42.94	1012.49	-33.91	97.61
1	72	936	-0.34	-3.49	-3.49	-0.34	-1.73e-02	803.43	-71.77	768.83	-37.17	170.53
1	72	937	-1.12	-2.23	-2.13	-1.22	0.32	430.49	-159.66	318.37	-47.54	231.51
1	72	938	5.71	-3.83	2.75	-0.87	4.41	61.24	-664.65	-532.92	-70.49	279.76
1	72	939	25.16	1.03	17.44	8.75	-11.26	-85.43	-2013.67	-2011.97	-87.12	-57.09
1	72	940	21.11	-18.05	9.70	-6.63	17.79	-355.15	-1828.40	-1809.66	-373.89	165.08
1	72	941	6.67	-3.01	0.68	2.99	-4.70	133.91	-456.51	-300.20	-22.39	-260.49
1	72	942	-0.60	-3.73	-3.68	-0.65	-0.40	474.43	-100.14	419.79	-45.51	-168.54
1	72	943	-0.27	-4.82	-4.82	-0.27	-1.64e-02	801.86	-52.18	790.67	-40.99	-97.13
1	72	944	-0.15	-5.09	-5.09	-0.15	7.77e-03	931.04	-39.83	930.75	-39.55	-16.69
1	72	945	-0.20	-4.78	-4.78	-0.20	5.41e-02	882.46	-44.68	877.87	-40.08	65.11
1	72	946	2.42e-03	-3.28	-3.17	-9.92e-02	0.57	645.74	-69.78	616.01	-40.06	142.79
1	72	947	9.76	-0.52	3.13	6.11	4.92	316.95	-211.77	83.76	21.43	262.52
1	72	948	15.39	-28.81	8.44	-21.86	-16.10	-574.20	-1039.81	-1028.39	-585.61	-72.00
1	72	949	-0.32	-3.31	-2.95	-0.68	0.98	614.61	-63.42	610.21	-59.01	54.49
1	72	950	25.03	-19.69	16.76	-11.41	17.36	-412.71	-1634.62	-1626.11	-421.22	101.63
1	72	951	10.39	-0.96	5.68	3.76	-5.59	219.92	-477.22	-246.74	-10.56	-327.96
1	72	952	-0.41	-1.90	-1.64	-0.66	-0.56	530.08	-132.87	438.18	-40.97	-229.08
1	72	953	-0.29	-3.65	-3.65	-0.29	-2.49e-02	852.77	-65.53	822.69	-35.45	-163.45
1	72	954	-0.11	-4.24	-4.24	-0.11	1.95e-02	1032.81	-40.35	1025.05	-32.59	-90.89
1	72	955	-7.25e-02	-4.44	-4.44	-7.25e-02	6.83e-05	1102.15	-31.82	1101.95	-31.62	-15.03
1	72	956	-9.07e-02	-4.51	-4.51	-9.08e-02	-2.25e-02	1076.46	-35.48	1073.07	-32.09	61.23
1	72	957	-0.19	-4.32	-4.32	-0.19	8.45e-03	948.25	-52.88	929.56	-34.19	135.50
1	72	958	-0.12	-3.14	-3.06	-0.20	0.49	688.19	-95.15	629.57	-36.54	206.11
1	72	959	9.60	-1.01	2.94	5.66	5.13	375.19	-270.18	87.95	17.05	320.73
1	72	960	16.40	-26.19	10.09	-19.88	-15.13	-544.52	-990.72	-990.51	-544.72	-9.50
1	72	961	3.03	0.56	0.85	2.74	-0.79	190.74	-59.06	175.55	-43.87	59.71
1	72	962	22.60	-19.38	14.78	-11.56	16.34	-396.32	-1542.07	-1519.94	-418.45	157.69
1	72	963	9.85	1.46e-02	6.12	3.74	-4.77	156.37	-349.37	-182.86	-10.14	-237.67
1	72	964	-0.16	-1.55	-1.19	-0.52	-0.61	489.05	-81.83	451.74	-44.52	-141.09
1	72	965	-0.30	-3.48	-3.47	-0.30	-7.80e-02	762.70	-48.01	756.79	-42.11	-68.93
1	72	966	-0.27	-4.02	-4.02	-0.27	3.95e-04	813.44	-41.85	813.34	-41.75	9.12
1	72	967	-0.56	-3.55	-3.54	-0.58	0.22	642.47	-55.29	632.31	-45.12	83.61
1	72	968	3.30	-2.87	-0.62	1.06	2.97	232.71	-137.86	137.57	-42.72	161.88
1	72	969	12.57	-8.10	5.75	-1.27	-9.72	-197.13	-997.80	-990.30	-204.63	-77.12
1	72	970	13.83	2.08	9.10	6.81	5.76	-38.57	-1154.23	-1152.45	-40.35	44.51
1	72	971	2.55	-2.84	0.68	-0.97	-2.57	74.17	-195.13	-52.22	-68.73	-134.40
1	72	972	-0.86	-2.75	-2.72	-0.89	-0.24	522.38	-61.30	508.96	-47.87	-87.50
1	72	973	-0.58	-3.72	-3.72	-0.58	7.42e-03	700.74	-45.38	700.23	-44.87	-19.64
1	72	974	7.63	-3.62	3.84	0.16	5.31	51.30	-1087.80	-974.49	-62.02	340.93
1	72	975	3.42	-29.63	-21.75	-4.46	-14.08	296.27	-479.93	-462.08	278.42	-116.35
1	72	976	7.99	-14.57	7.46	-14.05	3.40	614.56	-913.00	-913.00	614.56	0.21
1	72	977	5.64	-10.86	-5.94	0.71	7.55	738.28	-2115.81	-2113.94	736.41	72.97
1	72	978	19.87	-21.02	19.61	-20.75	-3.26	865.99	-1612.71	-1612.70	865.98	5.24
1	72	979	33.00	-22.35	32.53	-21.88	-5.05	1078.98	-2221.11	-2221.03	1078.91	15.56
1	72	980	1.66	-6.39	-5.21	0.49	2.84	758.22	-2209.69	-2208.53	757.06	58.59
1	72	981	0.82	-14.75	-11.55	-2.38	6.29	189.25	-245.07	-239.15	183.33	50.37
1	72	982	5.38	-4.29	-0.16	1.25	-4.78	163.77	-204.14	64.83	-105.20	163.13
1	72	983	0.98	-4.84	-3.67	-0.18	2.33	814.17	-115.63	755.38	-56.84	226.29
1	72	984	-0.45	-5.55	-5.55	-0.46	-5.06e-02	1106.36	-56.75	1088.64	-39.03	142.47

1	72	985	-0.14	-5.02	-5.02	-0.14	-7.03e-02	1231.83	-36.59	1228.41	-33.17	65.78
1	72	986	-6.31e-02	-4.65	-4.65	-6.32e-02	-1.92e-02	1252.30	-31.92	1252.18	-31.80	-12.32
1	72	987	-6.45e-02	-4.49	-4.49	-6.46e-02	2.44e-02	1184.59	-39.17	1177.84	-32.42	-90.67
1	72	988	-0.12	-4.41	-4.41	-0.12	5.38e-02	1020.13	-61.26	993.51	-34.64	-167.54
1	72	989	-0.33	-4.11	-4.11	-0.33	1.11e-02	729.98	-113.03	655.99	-39.04	-238.54
1	72	990	-0.71	-2.64	-2.50	-0.85	-0.51	309.32	-286.92	70.96	-48.56	-292.07
1	72	991	9.83	-2.68	7.03	0.12	-5.21	50.20	-1084.82	-979.44	-55.18	-329.39
1	72	992	34.31	-5.13	21.00	8.17	18.65	-178.46	-2769.86	-2759.10	-189.22	166.62
1	72	993	29.96	-29.63	12.35	-12.02	-27.19	-519.43	-2574.86	-2540.94	-553.35	-261.87
1	72	994	11.16	-1.42	4.81	4.94	6.29	159.11	-872.62	-719.51	6.00	366.78
1	72	995	-0.13	-4.02	-3.95	-0.20	0.52	367.74	-228.13	182.71	-43.11	275.71
1	72	996	-0.23	-4.76	-4.76	-0.23	-1.75e-02	756.94	-96.70	699.33	-39.09	214.15
1	72	997	-0.11	-4.63	-4.63	-0.11	-5.64e-02	999.51	-54.26	980.73	-35.48	139.40
1	72	998	-6.46e-02	-4.41	-4.41	-6.48e-02	-2.78e-02	1111.64	-36.73	1108.48	-33.57	60.15
1	72	999	-6.49e-02	-4.25	-4.25	-6.49e-02	6.59e-03	1117.84	-33.42	1117.51	-33.08	-19.60
1	72	1000	-0.11	-4.14	-4.14	-0.11	3.52e-02	1021.35	-43.10	1012.31	-34.06	-97.69
1	72	1001	-0.30	-3.87	-3.87	-0.30	1.33e-02	802.22	-71.85	767.56	-37.20	-170.56
1	72	1002	-0.80	-2.63	-2.55	-0.87	-0.37	424.96	-157.94	313.11	-46.09	-229.54
1	72	1003	7.49	-3.09	5.27	-0.88	-4.31	58.84	-659.06	-535.34	-64.88	-271.12
1	72	1004	26.74	-0.32	15.90	10.52	13.26	-104.59	-2007.50	-2005.15	-106.94	66.85
1	72	1005	22.69	-19.52	9.04	-5.86	-19.75	-375.14	-1825.51	-1802.44	-398.21	-181.47
1	72	1006	7.77	-1.72	2.99	3.06	4.74	128.39	-450.86	-305.82	-16.66	250.96
1	72	1007	-0.23	-4.41	-4.37	-0.27	0.42	470.24	-98.00	416.16	-43.92	166.75
1	72	1008	-0.22	-5.41	-5.41	-0.22	2.06e-02	802.71	-52.19	791.60	-41.08	96.83
1	72	1009	-0.14	-5.64	-5.64	-0.14	5.32e-04	933.88	-40.09	933.62	-39.84	15.84
1	72	1010	-0.15	-5.63	-5.63	-0.15	-1.94e-02	886.98	-45.17	882.15	-40.33	-66.97
1	72	1011	0.19	-4.80	-4.76	0.15	-0.43	650.62	-69.89	620.21	-39.49	-144.85
1	72	1012	9.98	-0.87	3.39	5.72	-5.30	310.25	-210.13	81.93	18.19	-258.23
1	72	1013	16.54	-28.88	9.31	-21.65	16.62	-576.32	-1057.85	-1046.01	-588.16	74.58
1	72	1014	2.44	-1.62	-0.89	1.70	1.56	195.25	-77.33	183.01	-65.09	-56.46
1	72	1015	25.53	-21.30	16.19	-11.96	-18.72	-429.58	-1643.26	-1632.56	-440.28	-113.45
1	72	1016	11.22	-0.82	6.87	3.53	5.78	214.39	-472.57	-250.44	-7.75	321.33
1	72	1017	-0.20	-3.19	-3.12	-0.28	0.47	532.26	-132.49	439.36	-39.59	230.49
1	72	1018	-0.22	-4.46	-4.46	-0.22	-3.74e-03	857.23	-66.34	826.52	-35.63	165.58
1	72	1019	-9.99e-02	-4.66	-4.66	-0.10	-3.35e-02	1036.97	-40.81	1029.03	-32.87	92.15
1	72	1020	-6.52e-02	-4.72	-4.72	-6.52e-02	-2.27e-03	1106.20	-32.08	1105.99	-31.87	15.47
1	72	1021	-7.93e-02	-4.84	-4.84	-7.95e-02	3.21e-02	1080.94	-35.76	1077.53	-32.35	-61.64
1	72	1022	-0.14	-4.96	-4.96	-0.14	2.15e-02	953.74	-53.31	934.78	-34.34	-136.90
1	72	1023	0.12	-4.40	-4.37	9.17e-02	-0.36	693.81	-94.59	634.72	-35.50	-207.59
1	72	1024	9.97	-1.12	3.37	5.48	-5.45	372.96	-264.43	90.87	17.66	-316.59
1	72	1025	16.77	-27.42	9.83	-20.48	16.08	-561.79	-998.24	-997.76	-562.27	14.54
1	72	1026	23.93	-19.58	15.66	-11.32	-17.06	-399.02	-1557.58	-1533.71	-422.88	-164.54
1	72	1027	10.52	-0.23	6.98	3.31	5.05	146.60	-349.48	-191.80	-11.08	230.99
1	72	1028	-0.11	-3.05	-2.96	-0.20	0.51	490.40	-81.91	452.19	-43.71	142.85
1	72	1029	-0.25	-4.55	-4.55	-0.25	4.52e-02	766.05	-48.68	759.78	-42.40	71.23
1	72	1030	-0.23	-4.74	-4.74	-0.23	-1.86e-02	815.60	-42.05	815.53	-41.98	-7.62
1	72	1031	-0.32	-4.13	-4.12	-0.34	-0.24	641.35	-53.93	631.63	-44.21	-81.63
1	72	1032	3.89	-2.07	0.66	1.16	-2.97	227.88	-129.94	136.40	-38.46	-156.09
1	72	1033	13.36	-9.56	4.80	-1.00	11.08	-214.68	-995.22	-984.76	-225.14	89.75
1	72	1034	15.19	1.59	8.63	8.15	-6.80	-48.93	-1149.04	-1146.92	-51.06	-48.29
1	72	1035	3.66	-2.43	2.28	-1.05	2.55	68.97	-189.67	-54.58	-66.12	129.19
1	72	1036	-0.65	-3.09	-3.06	-0.67	0.27	519.44	-60.23	506.32	-47.11	86.21
1	72	1037	-0.45	-4.10	-4.10	-0.45	1.33e-02	700.90	-44.85	700.38	-44.34	19.54
1	72	1038	-0.18	-3.31	-2.95	-0.54	-0.99	618.83	-60.11	614.39	-55.66	-54.76
1	72	1039	9.79	-1.83	-1.34	9.30	-2.33	339.41	-368.65	224.61	-253.86	260.96
1	72	1040	5.03	-3.49	-1.29	2.83	3.73	251.76	-290.29	189.72	-228.25	-172.56
1	72	1041	28.58	5.91	12.56	21.93	10.32	316.76	-13.92	213.62	89.22	153.19
1	72	1042	5.71	-3.44	-3.39	5.66	0.66	833.55	-114.51	-85.31	804.36	163.78
1	72	1043	4.10	-0.67	-0.65	4.08	-0.30	1125.45	-49.30	-28.59	1104.75	154.59
1	72	1044	4.01	-0.11	-0.11	4.01	-0.11	1234.56	-29.50	-19.37	1224.43	112.71
1	72	1045	3.78	-3.45e-02	-3.40e-02	3.78	-4.28e-02	1276.23	-19.48	-15.73	1272.48	69.61
1	72	1046	3.57	-2.34e-02	-2.34e-02	3.57	-1.31e-02	1288.56	-14.48	-13.88	1287.96	27.96
1	72	1047	3.50	-2.29e-02	-2.28e-02	3.50	9.45e-03	1289.80	-13.72	-13.60	1289.68	-12.80
1	72	1048	3.56	-3.25e-02	-3.21e-02	3.56	3.91e-02	1282.91	-17.16	-14.91	1280.65	-54.14
1	72	1049	3.65	-0.11	-0.11	3.65	0.11	1255.97	-25.57	-18.14	1248.54	-97.28
1	72	1050	3.55	-0.66	-0.64	3.53	0.31	1179.26	-43.97	-27.33	1162.62	-141.68
1	72	1051	4.23	-3.73	-3.73	4.23	-2.14e-02	951.05	-110.63	-85.21	925.63	-162.30
1	72	1052	23.48	7.50	14.75	16.23	-7.96	525.56	115.54	203.34	437.76	-168.20
1	72	1053	5.60	-10.13	-8.26	3.73	-5.09	-137.24	-287.07	-280.36	-143.95	-31.00
1	72	1054	7.29	-11.31	-10.17	6.15	4.45	-103.48	-314.23	-312.91	-104.80	16.63
1	72	1055	3.18	-1.31	-1.31	3.17	-0.14	234.29	-181.72	164.90	-112.33	-155.09
1	72	1056	0.61	-1.71	-1.44	0.34	-0.75	173.36	-142.18	135.30	-104.12	102.77
1	72	1057	17.31	3.66	8.62	12.35	-6.57	244.53	62.17	128.98	177.72	-87.86
1	72	1058	4.04	-2.25	-2.25	4.04	-6.72e-02	773.69	-66.14	-59.20	766.74	-76.05
1	72	1059	2.73	-0.37	-0.36	2.72	0.19	1037.56	-24.13	-18.86	1032.29	-74.62
1	72	1060	2.37	-5.57e-02	-5.36e-02	2.37	7.23e-02	1155.11	-13.65	-11.39	1152.84	-51.39

1	72	1061	2.10	-1.06e-02	-1.01e-02	2.10	3.39e-02	1208.58	-8.67	-7.93	1207.84	-30.10
1	72	1062	1.94	-2.91e-03	-2.82e-03	1.94	1.25e-02	1228.94	-6.25	-6.14	1228.83	-11.64
1	72	1063	1.91	-2.19e-03	-2.17e-03	1.91	-6.56e-03	1231.55	-5.88	-5.85	1231.53	5.45
1	72	1064	1.99	-8.61e-03	-8.18e-03	1.99	-2.94e-02	1218.98	-7.54	-7.10	1218.54	23.28
1	72	1065	2.16	-5.45e-02	-5.21e-02	2.16	-7.26e-02	1181.22	-11.70	-10.09	1179.61	43.77
1	72	1066	2.33	-0.40	-0.38	2.31	-0.22	1094.05	-21.77	-17.68	1089.96	67.46
1	72	1067	2.98	-2.80	-2.77	2.95	-0.41	884.61	-68.69	-62.87	878.79	74.23
1	72	1068	16.21	4.74	10.99	9.96	5.71	486.15	111.84	144.21	453.79	105.20
1	72	1069	2.93	-4.90	-3.99	2.02	2.51	-111.07	-182.18	-180.30	-112.95	11.40
1	72	1070	32.14	-18.76	31.84	-18.45	3.94	1055.07	-2250.71	-2250.64	1054.99	-15.93

M_G	**N max**	**N min**	**N 1**	**N 2**	**N 1-2**	**M max**	**M min**	**M 1**	**M 2**	**M 1-2**
		-76.68	-35.00	-76.50	-42.97		-6768.63	-6762.55	-3175.84	-1129.30
	95.81		95.80	39.16	38.65	2021.40		1905.52	2021.27	1132.24

20. VERIFICHE ELEMENTI TRAVE E/O PILASTRO IN C.A.

20.1. LEGENDA TABELLA VERIFICHE ELEMENTI TRAVE E/O PILASTRO IN C.A.

In tabella vengono riportati per ogni elemento il numero identificativo ed il codice di verifica con le sigle **Ok** o **NV**.

Nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite (**S.L.**) vengono riportati: il rapporto x/d, le verifiche per sollecitazioni proporzionali e la verifica per compressione media con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

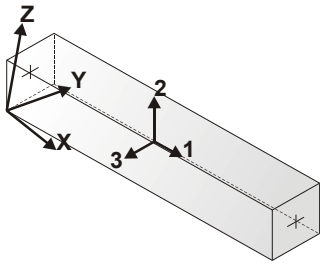
Nel caso in cui si sia proceduto alla progettazione con le tensioni ammissibili (**T.A.**) vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima compressione media nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale) con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

Nel caso in cui la struttura abbia comportamento dissipativo e sia prevista la progettazione con il criterio della gerarchia delle resistenze **(G.R.)** vengono riportate le verifiche di sovraresistenza e del nodo.

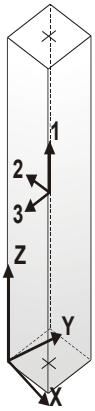
Per gli elementi tipo pilastro sono riportati numero e diametro dei ferri di vertice, numero e diametro di ferri disposti lungo i lati L1 (paralleli alla base della sezione) e lungo i lati L2 (paralleli all'altezza della sezione).

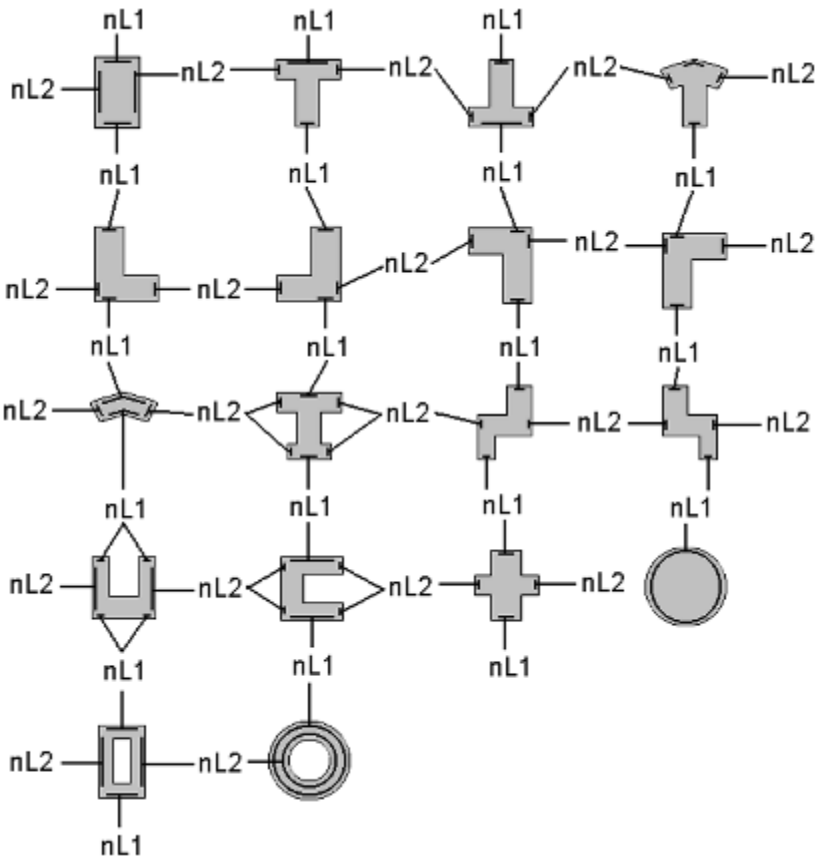
Per gli elementi tipo trave sono riportati infine le quantità di armatura inferiore e superiore.

Schema della distribuzione delle armature longitudinali



Orientamento elementi 2D non verticali





Orientamento elementi 2D verticali

20.2. PROGETTAZIONE DELLE FONDAZIONI

Il D.M.17/01/2018 - par: 7.2.5 prevede:

"Sia per CD"A" sia per CD"B" il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:

- quella derivante dall'analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;
- […];
- quella trasferita dagli elementi soprastanti nell'ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD"A" e 1,10 in CD"B";

Nel contesto visualizzazione risultati e nella stampa della relazione sulle fondazioni PRO_SAP mostra le sollecitazioni che derivano dall'analisi non incrementate sia in termini di pressioni sul terreno che in termini di sollecitazioni.

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO_SAP (per travi e platee) o da PRO_CAD Plinti (per plinti e pali di fondazione) incrementando le sollecitazioni delle combinazioni con sisma di un coefficiente pari 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l'incremento delle sollecitazioni ha un fattore pari a 1.2 in CDB e 1.35 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

N.B.: nel caso di comportamento strutturale non dissipativo le verifiche geotecniche vengono effettuate senza nessun incremento.

Simbologia adottata nelle tabelle di verifica

Per le verifiche agli S.L. dei pilastri è presente una tabella con i simboli di seguito descritti:

M_P X Y	Numero della pilastrata (P) e posizione in pianta (X,Y)
Pilas.	numero identificativo dell'elemento D2
Note	Codici identificativi delle sezione (s) e materiale (m) pilastro
Stato	Codici relativi all'esito delle verifiche effettuate appresso descritte
Quota	Quota sezione di verifica
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
r. snell.	Rapporto di snellezza λ su λ^*: valore superiore a 1 per elementi snelli nel caso in cui viene effettuata la verifica con il metodo diretto dello stato di equilibrio
Armat. long.	Numero e diametro (d) dei ferri di armatura longitudinale distinti in ferri di vertice + ferri di lato nelle posizioni nL1 e nL2, come da schemi in figura precedente

V N/M	Verifica a pressoflessione con rapporto Ed/Rd: valore minore o uguale a 1 per verifica positiva
V N sis	Verifica a compressione solo calcestruzzo con rapporto Nsd/Nrd ed Nrd calcolato come al punto 7.4.4.2.1: valore minore o uguale a 1 per verifica positiva
Staffe	Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls	Verifica a taglio/torsione con rapporto Ved/Vrd: valore minore o uguale a 1 per verifica positiva
Rif. cmb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il pilastro

Per le verifiche alla G.R. dei pilastri è presente una tabella con i simboli di seguito descritti:

Pilas.	numero identificativo dell'elemento D2 pilastro
sovr. Xi (Xf)	Verifica sovraresistenza come da formula 7.4.4 in direzione X, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato
sovr. Yi (Yf)	Verifica sovraresistenza come da formula 7.4.4 in direzione Y, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato
M 2-2 i (f)	Valore del momento resistente 2-2 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
M 3-3 i (f)	Valore del momento resistente 3-3 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
Luce per V	Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M2-2 (M3-3)	Valore del taglio generato dai momenti resistenti 2-2 (3-3)

Per le verifiche dei dettagli costruttivi per la duttilità è presente una tabella con i simboli di seguito descritti:

(Non presente nel caso di comportamento strutturale non dissipativo)

Pilas	Numero identificativo D2 pilastro
ni	Sforzo assiale adimensionalizzato di progetto relativo alla combinazione sismica SLV
alfaomega	Prodotto tra il coefficiente di efficacia del confinamento e il rapporto meccanico dell'armatura trasversale di confinamento all'interno del nodo
V.7.4.29 2-2 (3-3)	Rapporto tra la domanda di staffe minima nel nodo e il rapporto meccanico dell'armatura trasversale di confinamento inserito all'interno del nodo in direzione 2 (3)
V. 7.4.29 Stato	Codici relativi all'esito della verifica 7.4.29
dmu_fi 2-2 (3-3)	Domanda in duttilità di curvatura in direzione 2 (3)

cmu_fi 2-2 (3-3)	Capacità in duttilità di curvatura in direzione 2 (3)
V. dutt. 2-2 (3-3)	Rapporto tra la domanda in duttilità di curvatura e la capacità in duttilità di curvatura in direzione 2 (3)

Per le verifiche nodi trave-pilastro di elementi nuovi è presente una tabella con i simboli di seguito descritti:

Nodo	Numero identificativo del nodo trave-pilastro
Stato	Esito delle verifiche
Pilastro	Numero identificativo D2 pilastro
Diam st	Diametro staffe nodo
Passo	Passo staffe nodo
n. br. 2 (3)	Numero braccia staffe per il taglio in direzione 2 (3)
Bj2 (3)	Larghezza effettiva del nodo per il taglio in direzione 2 (3)
Hjc2 (3)	Distanza tra le giaciture più esterne delle armature del pilastro per il taglio in direzione 2 (3)
V. 7.4.8	Rapporto tra il taglio Vjbd e il taglio resistente come da formula 7.4.8
V. Ash	Rapporto tra il passo staffe calcolato secondo il capitolo 7.4.4.3.1. e il passo staffe effattivamente inserita nel nodo. Nel caso di valore indica passo staffe utilizzato deriva dalle formule presenti nel paragrafo 7.4.4.3.1. Nel caso di valore minore di 1 il passo staffe utilizzato deriva del pilastro superiore o inferiore al nodo
7.4.10	Check passo staffe valutato in funzione della formula 7.4.10: • SI il passo staffe è calcolato utilizzando la formula 7.4.10; • NO il passo staffe è calcolato utilizzando le formule 7.4.11 e/o 7.4.12; • NR calcolo passo staffe non richiesto;
Rif. comb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il nodo

Per le verifiche nodi trave-pilastro di elementi esistenti è presente una tabella con i simboli di seguito descritti:

Pilastro I	Numero identificativo D2 del pilastro inferiore.
Pilastro S	Numero identificativo D2 del pilastro superiore.
Nodo	Numero identificativo del nodo trave-pilastro.
SL cod	Stato limite di riferimento e relativo esito delle verifiche.
ver. (+)	Fattore di sicurezza nei riguardi della verifica di resistenza a compressione (verificato se < 1.00).
V +	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a compressione.

V + af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella verifica di resistenza a compressione.
N +	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a compressione.
ver. (-)	Fattore di sicurezza nei riguardi della verifica di resistenza a trazione (verificato se < 1.00).
V -	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a trazione.
V - af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella verifica di resistenza a trazione.
N -	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a trazione.
AreaV2	Area resistente del nodo in direzione 2 ($A_{j2}=b_{j2}*h_{jc2}$).
AreaV3	Area resistente del nodo in direzione 3 ($A_{j3}=b_{j3}*h_{jc3}$).
Rif. comb.	Combinazione (direzione) di riferimento nella verifica di trazione.

Per le verifiche agli S.L. delle travi è presente una tabella con i simboli di seguito descritti:

M_T Z P P	Numero della travata (T), quota media (Z), n° pilastrata iniziale (P) e finale (P) (nodo in assenza di pilastrata)
Trave	numero identificativo dell'elemento D2
Note	Codici identificativi sezione (s) e materiale (m) trave; sono inoltre presenti le sigle relative all'esito delle verifiche effettuate appresso descritte
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
Af inf.	Area di armatura longitudinale posta all'intradosso
Af sup	Area di armatura longitudinale posta all'estradosso
Af long.	Area complessiva armatura longitudinale
x/d	rapporto tra posizione dell'asse neutro e altezza utile
V N/M	Verifica a pressoflessione rapporto Ed/Rd: valore minore o uguale a 1 per verifica positiva
Staffe	Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls	Verifica a taglio/torsione con rapporto Ved/Vrd: valore minore o uguale a 1 per verifica positiva
Rif. cmb.	Riferimento combinazioni da cui si generano le verifiche più gravose per la trave

Per le verifiche alla G.R. delle travi è presente una tabella con i simboli di seguito descritti:

Trave	numero identificativo dell'elemento D2 trave

M negativo i (f)	Valore del momento resistente negativo all' estremità iniziale i (finale f) della trave
M positivo i (f)	Valore del momento resistente positivo all' estremità iniziale i (finale f) della trave
Luce per V	Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M-i M+f	Taglio generato dai momenti resistenti negativo i e positivo f
V M+i M-f	Taglio generato dai momenti resistenti positivo i e negativo f
VEd, min	Valore di taglio minimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
VEd, max	Valore di taglio massimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
Vr1	Valore di taglio come da formula 7.4.1 per armatura diagonale (solo per CD "A")
As	Area singolo ordine armature diagonali come da formula 7.4.2 (solo per CD "A")

Per le verifiche a taglio ciclico di travi e pilastri esistenti è presente una tabella con i simboli di seguito descritti:

Trave/Pilastro	Numero identificativo dell'elemento D2 trave/pilastro
V. SLV	Codice relativo all'esito delle verifiche
Nodo	Numero identificativo del nodo di verifica
Ver. VC	Fattore di sicurezza nei confronti della verifica a taglio ciclico (verificato se < 1.00)
Direz.	Direzione di verifica
N fr	Valore di sforzo normale calcolato con fattore di comportamento fragile
V fr	Valore di taglio calcolato con fattore di comportamento fragile
M fr	Valore di momento calcolato con fattore di comportamento fragile
N dutt	Valore di sforzo normale calcolato con fattore di comportamento duttile
LV	Lunghezza di taglio
Mud,pl	Parte plastica della domanda di duttilità
V cic	Resistenza a taglio in condizioni cicliche (C8.7.2.8)
Cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

Per le verifiche alle T.A. di pilastri e travi è presente una tabella con i simboli di seguito descritti:

M_P X Y	Numero della pilastrata (P) e posizione in pianta (X,Y)

M_T Z P P	Numero della travata, quota media pilastrata iniziale e finale (nodo in assenza di pilastrata)
Pilas. o Trave	numero identificativo dell'elemento D2
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m); nella terza riga viene riportato il valore delle snellezze in direzione 2-2 e 3-3
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Quota	Ascissa del punto di verifica
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
Armat. long.	Numero e diametro dei ferri di armatura longitudinale: ferri di vertice + ferri di lato (come da fig. precedente)
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup	Area di armatura longitudinale posta all'estradosso della trave
Sc max	Massima tensione di compressione del calcestruzzo
Sc med	Massima tensione media di compressione del calcestruzzo
Sf max	Tensione massima nell'acciaio
staffe	Vengono riportati i dati del tratto di staffatura in cui cade la sezione di verifica; in particolare: numero dei bracci, diametro, passo, lunghezza tratto
Tau max	Tensione massima tangenziale nel cls
Rif. comb	Combinazioni in cui si generano i seguenti valori di tensione: Sc max, Sc med, Sf max, Tau max
AfV	area dell'armatura atta ad assorbire le azioni di taglio
AfT	area dell'armatura atta ad assorbire le azioni di torsione
Scorr. P	Scorrimento dei piegati
Af long.	Area del ferro longitudinale aggiuntivo per assorbire la torsione

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
24	TENSIONI E ROTAZIONI RISPETTO ALLA CORDA DI ELEMENTI TRAVE
27	FRECCIA DI ELEMENTI TRAVE

41	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
42	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
43	VERIFICA ALLE TA DI STRUTTURE IN C.A.
44	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
46	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
47	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
49	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
50	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
52	SOVRARESISTENZE
53	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
68	VALUTAZIONE EFFETTO P-δ SU PILASTRATA
69	VALUTAZIONE EFFETTO P-δ SU TELAIO 3D
120	PROGETTO E VERIFICA DI TRAVI PREM

					M_P= 1	**X=0.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota cm	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe L=cm	V V/T cls	V V/T acc	Rif. cmb
1	s=1,m=5	ok,ok	0.0	1.79	0.28	4d16 2+2 d16	0.14	0.04	3+3d8/12 L=50	0.35	0.25	10,12,18,18
			150.0	1.79	0.28	4d16 2+2 d16	0.17	0.04	3+3d8/15 L=200	0.35	0.30	2,12,18,18
	[b=1.0;1.0]		300.0	1.79	0.28	4d16 2+2 d16	0.44	0.04	3+3d8/12 L=50	0.35	0.25	2,12,18,18
					M_P= 2	**X=570.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
13	s=1,m=5	ok,ok	0.0	1.79	0.42	4d16 2+2 d16	0.31	0.09	3+3d8/12 L=50	0.39	0.26	32,30,12,24
			150.0	1.79	0.42	4d16 2+2 d16	0.29	0.09	3+3d8/15 L=200	0.39	0.31	2,30,12,24
	[b=1.0;1.0]		300.0	1.79	0.42	4d16 2+2 d16	0.83	0.09	3+3d8/12 L=50	0.39	0.26	2,30,12,24
					M_P= 3	**X=1170.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
15	s=1,m=5	ok,ok	0.0	1.79	0.38	4d16 2+2 d16	0.24	0.07	3+3d8/12 L=50	0.37	0.26	30,32,20,33
			150.0	1.79	0.38	4d16 2+2 d16	0.26	0.07	3+3d8/15 L=200	0.37	0.31	2,32,20,33
	[b=1.0;1.0]		300.0	1.79	0.38	4d16 2+2 d16	0.74	0.07	3+3d8/12 L=50	0.37	0.26	2,32,20,33
					M_P= 4	**X=1660.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
16	s=1,m=5	ok,ok	0.0	1.79	0.39	4d16 2+2 d16	0.27	0.08	3+3d8/12 L=50	0.37	0.26	24,22,8,30
			150.0	1.79	0.39	4d16 2+2 d16	0.26	0.08	3+3d8/15 L=200	0.37	0.31	2,22,8,30
	[b=1.0;1.0]		300.0	1.79	0.39	4d16 2+2 d16	0.76	0.07	3+3d8/12 L=50	0.37	0.26	2,22,8,30
					M_P= 5	**X=2260.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
17	s=1,m=5	ok,ok	0.0	1.79	0.39	4d16 2+2 d16	0.26	0.08	3+3d8/12 L=50	0.37	0.26	22,24,6,28
			150.0	1.79	0.39	4d16 2+2 d16	0.25	0.07	3+3d8/15 L=200	0.37	0.31	2,24,6,28
	[b=1.0;1.0]		300.0	1.79	0.39	4d16 2+2 d16	0.73	0.07	3+3d8/12 L=50	0.37	0.26	2,24,6,28
					M_P= 6	**X=2680.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb

5	s=1,m=5	ok,ok	0.0	1.79	0.33	4d16 2+2 d16	0.16	0.06	3+3d8/12 L=50	0.35	0.25	22,24,6,23
			150.0	1.79	0.33	4d16 2+2 d16	0.20	0.05	3+3d8/15 L=200	0.35	0.30	2,24,6,23
	[b=1.0;1.0]		300.0	1.79	0.33	4d16 2+2 d16	0.54	0.05	3+3d8/12 L=50	0.35	0.25	2,24,6,23
					M_P= 7	**X=3000.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
29	s=1,m=5	ok,ok	0.0	1.79	0.23	4d16 2+2 d16	0.11	0.03	3+3d8/12 L=50	0.32	0.24	8,6,16,16
			150.0	1.79	0.23	4d16 2+2 d16	0.13	0.03	3+3d8/15 L=200	0.32	0.29	2,6,16,16
	[b=1.0;1.0]		300.0	1.79	0.23	4d16 2+2 d16	0.31	0.03	3+3d8/12 L=50	0.32	0.24	2,6,16,16
					M_P= 8	**X=0.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
2	s=1,m=5	ok,ok	0.0	1.79	0.28	4d16 2+2 d16	0.14	0.04	3+3d8/12 L=50	0.35	0.25	17,19,9,9
			150.0	1.79	0.28	4d16 2+2 d16	0.17	0.04	3+3d8/15 L=200	0.35	0.30	2,19,9,9
	[b=1.0;1.0]		300.0	1.79	0.28	4d16 2+2 d16	0.44	0.04	3+3d8/12 L=50	0.35	0.25	2,19,9,9
					M_P= 9	**X=570.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
18	s=1,m=5	ok,ok	0.0	1.79	0.42	4d16 2+2 d16	0.31	0.09	3+3d8/12 L=50	0.39	0.26	
35,33,19,27												
			150.0	1.79	0.42	4d16 2+2 d16	0.29	0.09	3+3d8/15 L=200	0.39	0.31	2,33,19,27
	[b=1.0;1.0]		300.0	1.79	0.42	4d16 2+2 d16	0.83	0.09	3+3d8/12 L=50	0.39	0.26	2,33,19,27
					M_P= 10	**X=1170.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
6	s=1,m=5	ok,ok	0.0	1.79	0.38	4d16 2+2 d16	0.24	0.07	3+3d8/12 L=50	0.37	0.26	
33,35,11,30												
			150.0	1.79	0.38	4d16 2+2 d16	0.26	0.07	3+3d8/15 L=200	0.37	0.31	2,35,11,30
	[b=1.0;1.0]		300.0	1.79	0.38	4d16 2+2 d16	0.74	0.07	3+3d8/12 L=50	0.37	0.26	2,35,11,30
					M_P= 11	**X=1660.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
7	s=1,m=5	ok,ok	0.0	1.79	0.39	4d16 2+2 d16	0.27	0.08	3+3d8/12 L=50	0.37	0.26	
27,25,15,33												
			150.0	1.79	0.39	4d16 2+2 d16	0.26	0.08	3+3d8/15 L=200	0.37	0.31	2,25,15,33
	[b=1.0;1.0]		300.0	1.79	0.39	4d16 2+2 d16	0.76	0.07	3+3d8/12 L=50	0.37	0.26	2,25,15,33
					M_P= 12	**X=2260.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
8	s=1,m=5	ok,ok	0.0	1.79	0.39	4d16 2+2 d16	0.26	0.08	3+3d8/12 L=50	0.37	0.26	25,27,7,23
			150.0	1.79	0.39	4d16 2+2 d16	0.25	0.07	3+3d8/15 L=200	0.37	0.31	2,27,7,23
	[b=1.0;1.0]		300.0	1.79	0.39	4d16 2+2 d16	0.73	0.07	3+3d8/12 L=50	0.37	0.26	2,27,7,23
					M_P= 13	**X=2680.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
9	s=1,m=5	ok,ok	0.0	1.79	0.33	4d16 2+2 d16	0.16	0.06	3+3d8/12 L=50	0.35	0.25	
25,27,13,28												
			150.0	1.79	0.33	4d16 2+2 d16	0.20	0.05	3+3d8/15 L=200	0.35	0.30	2,27,13,28
	[b=1.0;1.0]		300.0	1.79	0.33	4d16 2+2 d16	0.54	0.05	3+3d8/12 L=50	0.35	0.25	2,27,13,28
					M_P= 14	**X=3000.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
30	s=1,m=5	ok,ok	0.0	1.79	0.23	4d16 2+2 d16	0.11	0.03	3+3d8/12 L=50	0.32	0.24	15,13,7,6
			150.0	1.79	0.23	4d16 2+2 d16	0.13	0.03	3+3d8/15 L=200	0.32	0.29	2,13,7,6
	[b=1.0;1.0]		300.0	1.79	0.23	4d16 2+2 d16	0.31	0.03	3+3d8/12 L=50	0.32	0.24	2,13,7,6

Pilas.	**%Af**	**r. snell.**	**V N/M**	**V N sis**	**V V/T cls**	**V V/T acc**
	1.79	0.42	0.83	0.09	0.39	0.31

Pilas.	**sovr. Xi**	**sovr. Xf**	**sovr. Yi**	**sovr. Yf**	**M 2-2 i**	**M 2-2 f**	**M 3-3 i**	**M 3-3 f**	**Luce per V**	**V M2-2**	**V M3-3**
					daN cm	daN cm	daN cm	daN cm	cm	daN	daN
1	0.0	0.0	0.0	0.0	8.002e+05	7.930e+05	8.002e+05	7.930e+05	240.00	6668.65	6668.65
2	0.0	0.0	0.0	0.0	8.002e+05	7.930e+05	8.002e+05	7.930e+05	240.00	6668.63	6668.63
5	0.0	0.0	0.0	0.0	8.187e+05	8.116e+05	8.187e+05	8.116e+05	240.00	6822.66	6822.66
6	0.0	0.0	0.0	0.0	8.381e+05	8.311e+05	8.381e+05	8.311e+05	240.00	6984.55	6984.55
7	0.0	0.0	0.0	0.0	8.430e+05	8.360e+05	8.430e+05	8.360e+05	240.00	7025.21	7025.21
8	0.0	0.0	0.0	0.0	8.416e+05	8.346e+05	8.416e+05	8.346e+05	240.00	7013.51	7013.51
9	0.0	0.0	0.0	0.0	8.187e+05	8.116e+05	8.187e+05	8.116e+05	240.00	6822.91	6822.91
13	0.0	0.0	0.0	0.0	8.578e+05	8.508e+05	8.578e+05	8.508e+05	240.00	7148.59	7148.59
15	0.0	0.0	0.0	0.0	8.381e+05	8.311e+05	8.381e+05	8.311e+05	240.00	6984.56	6984.56
16	0.0	0.0	0.0	0.0	8.430e+05	8.360e+05	8.430e+05	8.360e+05	240.00	7025.22	7025.22
17	0.0	0.0	0.0	0.0	8.416e+05	8.346e+05	8.416e+05	8.346e+05	240.00	7013.45	7013.45
18	0.0	0.0	0.0	0.0	8.578e+05	8.508e+05	8.578e+05	8.508e+05	240.00	7148.57	7148.57
29	0.0	0.0	0.0	0.0	7.888e+05	7.815e+05	7.888e+05	7.815e+05	240.00	6573.05	6573.05
30	0.0	0.0	0.0	0.0	7.888e+05	7.815e+05	7.888e+05	7.815e+05	240.00	6573.00	6573.00

Pilas.	**M 2-2 i**	**M 2-2 f**	**M 3-3 i**	**M 3-3 f**	**V M2-2**	**V M3-3**
	8.578e+05	8.508e+05	8.578e+05	8.508e+05	7148.59	7148.59

Pilas.	**nid**	**alfaomega**	**V. 7.4.29 2-2**	**V. 7.4.29 3-3**	**V. 7.4.29 Stato**	**dmu_fi 2-2**	**dmu_fi 3-3**	**cmu_fi 2-2**	**cmu_fi 3-3**	**V. dut. 2-2**	**V. dut. 3-3**
1	0.03	0.08	0.0	0.0	ok	13.1	15.3	15.1	15.1	0.87	1.01

	0.02	0.08	0.0	0.0	ok			15.7	15.7	0.84	0.98
2	0.03	0.08	0.0	0.0	ok	13.1	15.3	15.1	15.1	0.87	1.01
	0.02	0.08	0.0	0.0	ok			15.7	15.7	0.84	0.98
5	0.04	0.08	0.0	0.06	ok	13.1	15.3	13.8	13.8	0.95	1.11
	0.03	0.08	0.0	7.52e-03	ok			14.3	14.3	0.92	1.07
6	0.05	0.08	0.11	0.20	ok	13.1	15.3	12.6	12.6	1.05	1.22
	0.04	0.08	0.07	0.15	ok			13.0	13.0	1.01	1.18
7	0.05	0.08	0.14	0.24	ok	13.1	15.3	12.3	12.3	1.07	1.25
	0.05	0.08	0.10	0.19	ok			12.7	12.7	1.04	1.21
8	0.05	0.08	0.13	0.23	ok	13.1	15.3	12.4	12.4	1.06	1.24
	0.05	0.08	0.09	0.18	ok			12.8	12.8	1.03	1.20
9	0.04	0.08	0.0	0.06	ok	13.1	15.3	13.8	13.8	0.95	1.11
	0.03	0.08	0.0	7.74e-03	ok			14.3	14.3	0.92	1.07
13	0.06	0.08	0.24	0.35	ok	13.1	15.3	11.5	11.5	1.14	1.33
	0.06	0.08	0.19	0.30	ok			11.9	11.9	1.11	1.29
15	0.05	0.08	0.11	0.20	ok	13.1	15.3	12.6	12.6	1.05	1.22
	0.04	0.08	0.07	0.15	ok			13.0	13.0	1.01	1.18
16	0.05	0.08	0.14	0.24	ok	13.1	15.3	12.3	12.3	1.07	1.25
	0.05	0.08	0.10	0.19	ok			12.7	12.7	1.04	1.21
17	0.05	0.08	0.13	0.23	ok	13.1	15.3	12.4	12.4	1.06	1.24
	0.05	0.08	0.09	0.18	ok			12.8	12.8	1.03	1.20
18	0.06	0.08	0.24	0.35	ok	13.1	15.3	11.5	11.5	1.14	1.33
	0.06	0.08	0.19	0.30	ok			11.9	11.9	1.11	1.29
29	0.02	0.08	0.0	0.0	ok	13.1	15.3	16.0	16.0	0.82	0.95
	0.02	0.08	0.0	0.0	ok			16.7	16.7	0.79	0.92
30	0.02	0.08	0.0	0.0	ok	13.1	15.3	16.0	16.0	0.82	0.95
	0.02	0.08	0.0	0.0	ok			16.7	16.7	0.79	0.92
			2-2	**3-3**						**2-2**	**3-3**
			0.24	0.35						1.14	1.33

Nodo cmb	**Conf.**	**Stato**	**Pilas.**	**Diam st**	**Passo**	**n. br. 2**	**Bj2**	**Hjc2**	**n. br. 3**	**Bj3**	**Hjc3**	**V. 7.4.8**	**V. Ash**	**7.4.10**	**Rif.**
				mm	cm		cm	cm		cm	cm				
2	NO	ok	1	8	12.5	3	30.0	22.8	3	30.0	22.8	0.3	1.0	NO	5,9
4	NO	ok	2	8	12.5	3	30.0	22.8	3	30.0	22.8	0.3	1.0	NO	5,18
5	NO	ok	15	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
6	NO	ok	18	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	1.0	NO	5,36
7	NO	ok	17	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
8	NO	ok	16	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
10	NO	ok	6	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
14	NO	ok	7	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
16	NO	ok	8	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
18	NO	ok	9	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
19	NO	ok	5	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
20	NO	ok	13	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	1.0	NO	5,31
26	NO	ok	29	8	10.0	3	30.0	22.8	3	30.0	22.8	0.3	0.8	NO	5,7
28	NO	ok	30	8	10.0	3	30.0	22.8	3	30.0	22.8	0.3	0.8	NO	5,16

Nodo	**Passo**	**V. 7.4.8**	**V. Ash**
	5.00		
		0.47	1.00

Trave	Note	Pos. cm	%Af	Af inf.	Af. sup	Af long.	**M_T= 1** x/d	**Z=300.0** V N/M	**P=1** V V/T cls	**P=8** V V/T acc	Staffe L=cm	Rif. cmb
3	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.44	0.17	0.12	2d8/8 L=50	2,20,2
	s=2,m=5	315.0	0.33	4.0	4.0	0.0	0.10	0.89	0.07	0.11	2d8/20 L=250	2,20,36
35	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.89	0.07	0.11	2d8/20 L=250	2,10,36
	s=2,m=5	315.0	0.33	4.0	4.0	0.0	0.10	0.44	0.17	0.12	2d8/8 L=50	2,10,2
							M_T= 2	**Z=300.0**	**P=5**	**P=12**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
4	ok,ok	0.0	0.67	8.0	6.0	0.0	0.11	0.73	0.32	0.25	2d8/8 L=50	2,2,2
	s=2,m=5	315.0	0.67	8.0	4.0	0.0	0.14	0.88	0.10	0.19	2d8/20 L=500	2,8,36
		630.0	0.67	8.0	6.0	0.0	0.11	0.73	0.32	0.25	2d8/8 L=50	2,2,2
							M_T= 3	**Z=300.0**	**P=6**	**P=13**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
10	ok,ok	0.0	0.50	6.0	4.0	0.0	0.10	0.76	0.23	0.18	2d8/8 L=50	2,2,2
	s=2,m=5	315.0	0.50	6.0	4.0	0.0	0.12	0.84	0.07	0.14	2d8/20 L=500	2,8,36
		630.0	0.50	6.0	4.0	0.0	0.10	0.76	0.23	0.18	2d8/8 L=50	2,2,2
							M_T= 4	**Z=300.0**	**P=2**	**P=9**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
11	ok,ok	0.0	0.84	10.1	6.0	0.0	0.11	0.90	0.38	0.31	2d8/8 L=50	2,2,2
	s=2,m=5	315.0	0.84	10.1	4.0	0.0	0.17	0.86	0.12	0.22	2d8/20 L=500	2,6,36

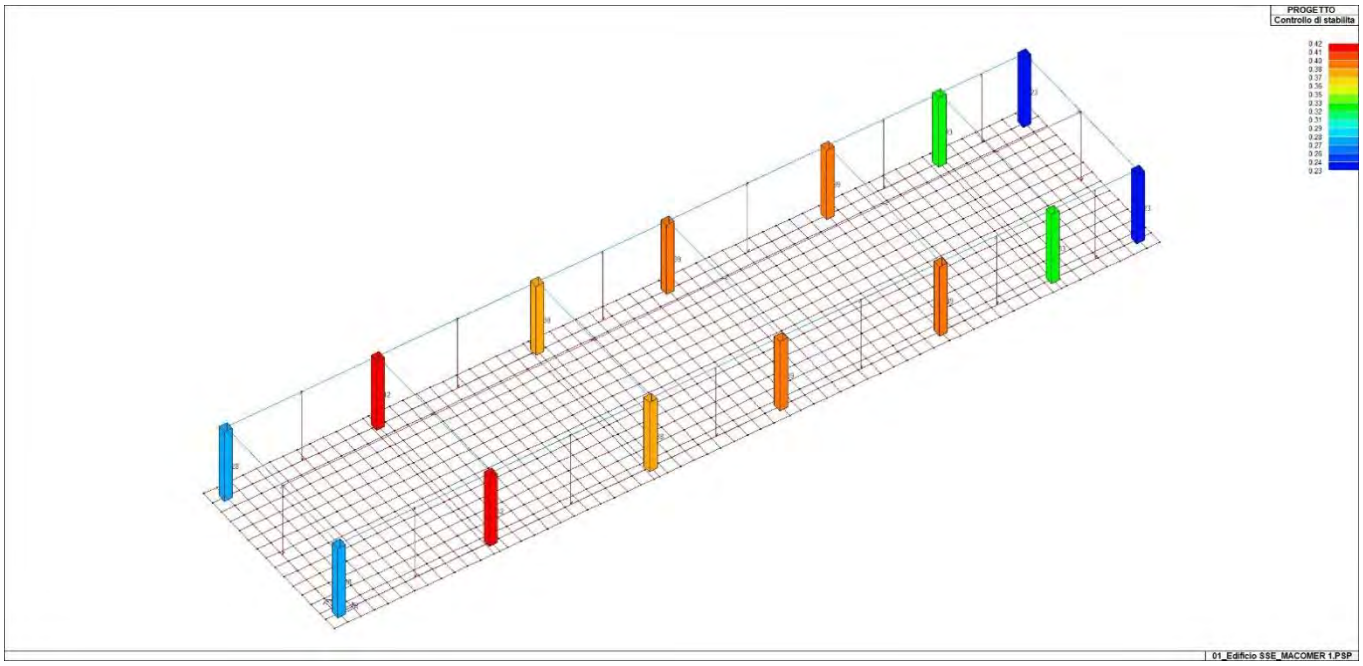
		630.0	0.84	10.1	6.0	0.0	0.11	0.90	0.38	0.31	2d8/8 L=50	2,2,2
							M_T= 5	**Z=300.0**	**P=4**	**P=11**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
12	ok,ok	0.0	0.67	8.0	6.0	0.0	0.11	0.73	0.32	0.26	2d8/8 L=50	2,2,2
	s=2,m=5	315.0	0.67	8.0	4.0	0.0	0.14	0.91	0.10	0.19	2d8/20 L=500	2,6,36
		630.0	0.67	8.0	6.0	0.0	0.11	0.73	0.32	0.26	2d8/8 L=50	2,2,2
							M_T= 6	**Z=300.0**	**P=3**	**P=10**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
14	ok,ok	0.0	0.67	8.0	4.0	0.0	0.10	0.95	0.30	0.24	2d8/8 L=50	2,2,2
	s=2,m=5	315.0	0.67	8.0	4.0	0.0	0.14	0.86	0.09	0.17	2d8/20 L=500	2,12,36
		630.0	0.67	8.0	4.0	0.0	0.10	0.95	0.30	0.24	2d8/8 L=50	2,2,2
							M_T= 7	**Z=300.0**	**P=8**	**P=14**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
19	ok,ok	0.0	0.33	4.0	4.0	4.0	0.10	0.15	0.22	0.28	2d8/8 L=50	16,30,2
	s=2,m=5	285.0	0.33	4.0	4.0	4.0	0.10	0.14	0.20	0.58	2d8/20 L=220	2,30,2
36	ok,ok	0.0	0.33	4.0	4.0	4.0	0.10	0.14	0.19	0.58	2d8/20 L=220	2,30,2
	s=2,m=5	285.0	0.33	4.0	4.0	4.0	0.10	0.26	0.22	0.30	2d8/8 L=50	17,30,2
21	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.24	0.13	0.07	2d8/8 L=50	20,25,36
	s=2,m=5	300.0	0.33	4.0	4.0	0.0	0.10	0.11	0.10	0.12	2d8/20 L=235	2,25,36
38	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.11	0.10	0.12	2d8/20 L=235	2,34,36
	s=2,m=5	300.0	0.33	4.0	4.0	0.0	0.10	0.20	0.13	0.07	2d8/8 L=50	17,34,36
24	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.20	0.12	0.08	2d8/8 L=50	20,29,36
	s=2,m=5	245.0	0.33	4.0	4.0	0.0	0.10	0.05	0.10	0.15	2d8/20 L=360	1,29,36
		490.0	0.33	4.0	4.0	0.0	0.10	0.20	0.12	0.08	2d8/8 L=50	17,29,36
27	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.21	0.11	0.07	2d8/8 L=50	16,32,36
	s=2,m=5	300.0	0.33	4.0	4.0	0.0	0.10	0.13	0.08	0.12	2d8/20 L=235	2,32,36
41	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.13	0.08	0.12	2d8/20 L=235	2,32,36
	s=2,m=5	300.0	0.33	4.0	4.0	0.0	0.10	0.20	0.11	0.07	2d8/8 L=50	17,32,36
28	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.20	0.19	0.09	2d8/8 L=50	16,24,36
	s=2,m=5	210.0	0.33	4.0	4.0	0.0	0.10	0.04	0.17	0.18	2d8/20 L=290	2,24,36
		420.0	0.33	4.0	4.0	0.0	0.10	0.13	0.19	0.09	2d8/8 L=50	13,24,36
31	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.13	0.25	0.11	2d8/8 L=50	20,24,36
	s=2,m=5	160.0	0.33	4.0	4.0	0.0	0.10	0.05	0.23	0.24	2d8/20 L=190	15,24,36
		320.0	0.33	4.0	4.0	0.0	0.10	0.11	0.25	0.11	2d8/8 L=50	17,24,36
							M_T= 8	**Z=300.0**	**P=1**	**P=7**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
20	ok,ok	0.0	0.33	4.0	4.0	4.0	0.10	0.15	0.22	0.28	2d8/8 L=50	7,33,2
	s=2,m=5	285.0	0.33	4.0	4.0	4.0	0.10	0.14	0.20	0.58	2d8/20 L=220	2,33,2
37	ok,ok	0.0	0.33	4.0	4.0	4.0	0.10	0.14	0.19	0.58	2d8/20 L=220	2,33,2
	s=2,m=5	285.0	0.33	4.0	4.0	4.0	0.10	0.26	0.22	0.30	2d8/8 L=50	10,33,2
23	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.24	0.13	0.07	2d8/8 L=50	11,22,36
	s=2,m=5	300.0	0.33	4.0	4.0	0.0	0.10	0.11	0.10	0.12	2d8/20 L=235	2,22,36
39	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.11	0.10	0.12	2d8/20 L=235	2,29,36
	s=2,m=5	300.0	0.33	4.0	4.0	0.0	0.10	0.20	0.13	0.07	2d8/8 L=50	10,29,36
22	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.20	0.12	0.08	2d8/8 L=50	11,34,36
	s=2,m=5	245.0	0.33	4.0	4.0	0.0	0.10	0.05	0.10	0.15	2d8/20 L=360	1,34,36
		490.0	0.33	4.0	4.0	0.0	0.10	0.20	0.12	0.08	2d8/8 L=50	10,34,36
26	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.21	0.11	0.07	2d8/8 L=50	7,33,36
	s=2,m=5	300.0	0.33	4.0	4.0	0.0	0.10	0.13	0.08	0.12	2d8/20 L=235	2,33,36
40	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.13	0.08	0.12	2d8/20 L=235	2,29,36
	s=2,m=5	300.0	0.33	4.0	4.0	0.0	0.10	0.20	0.11	0.07	2d8/8 L=50	10,29,36
25	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.20	0.19	0.09	2d8/8 L=50	7,27,36
	s=2,m=5	210.0	0.33	4.0	4.0	0.0	0.10	0.04	0.17	0.18	2d8/20 L=290	2,27,36
		420.0	0.33	4.0	4.0	0.0	0.10	0.13	0.19	0.09	2d8/8 L=50	6,27,36
32	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.13	0.25	0.11	2d8/8 L=50	11,27,36
	s=2,m=5	160.0	0.33	4.0	4.0	0.0	0.10	0.05	0.23	0.24	2d8/20 L=190	8,27,36
		320.0	0.33	4.0	4.0	0.0	0.10	0.11	0.25	0.11	2d8/8 L=50	10,27,36
							M_T= 9	**Z=300.0**	**P=7**	**P=14**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
33	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.28	0.13	0.10	2d8/8 L=50	2,14,36
	s=2,m=5	315.0	0.33	4.0	4.0	0.0	0.10	0.64	0.07	0.11	2d8/20 L=250	2,14,36
34	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.64	0.07	0.11	2d8/20 L=250	2,8,36
	s=2,m=5	315.0	0.33	4.0	4.0	0.0	0.10	0.28	0.13	0.10	2d8/8 L=50	2,5,36

Trave	**%Af**	**Af inf.**	**Af. sup**	**Af long.**	**x/d**	**V N/M**	**V V/T cls**	**V V/T acc**
	0.84	10.05	6.03	4.02	0.17	0.95	0.38	0.58

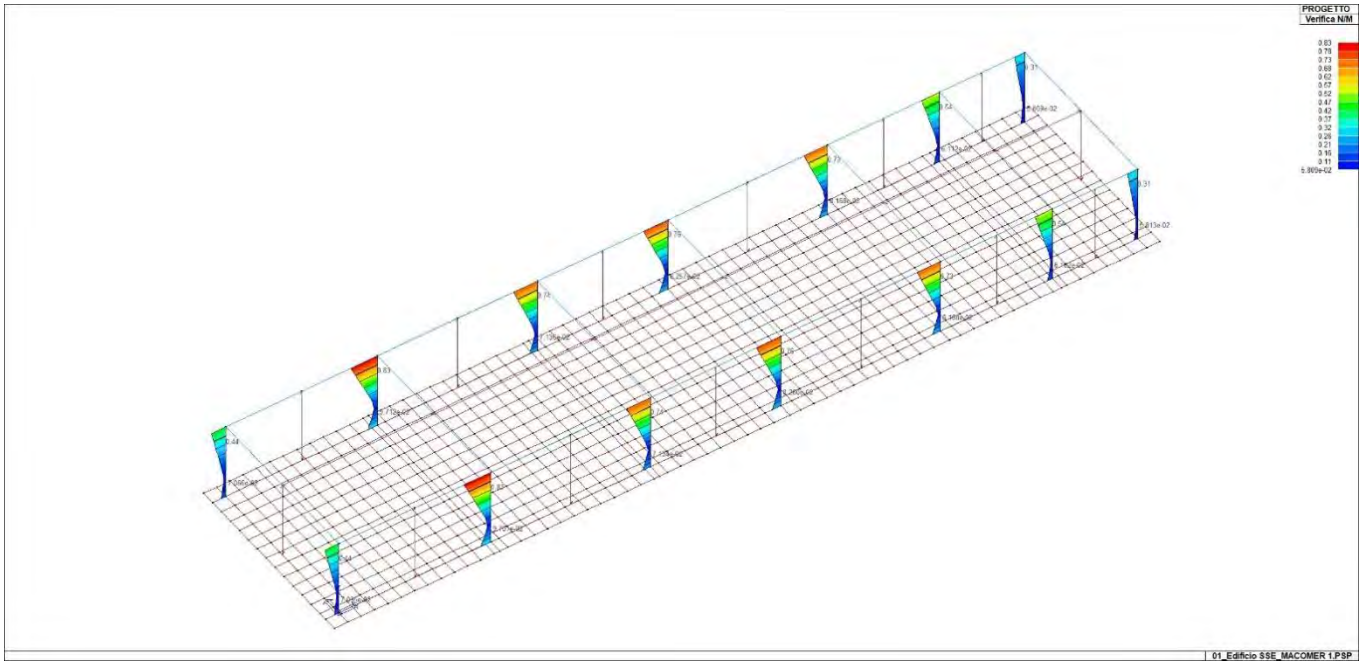
Trave	**M negativo i**	**M positivo i**	**M negativo f**	**M positivo f**	**Luce per V**	**V M-i M+f**	**V M+i M-f**	**VEd,min**	**VEd,max**	**Vr1**	**As**
	daN cm	daN cm	daN cm	daN cm	cm	daN	daN	daN	daN	daN	cm2
3	5.505e+05	5.505e+05	5.505e+05	5.505e+05	599.98	1834.96	1834.96	0.0	0.0	0.0	0.0
4	8.094e+05	1.067e+06	8.094e+05	1.067e+06	599.98	3127.63	3127.63	0.0	0.0	0.0	0.0
10	5.505e+05	8.095e+05	5.505e+05	8.095e+05	599.98	2266.70	2266.70	0.0	0.0	0.0	0.0
11	8.094e+05	1.323e+06	8.094e+05	1.323e+06	599.98	3554.22	3554.22	0.0	0.0	0.0	0.0
12	8.094e+05	1.067e+06	8.094e+05	1.067e+06	599.98	3127.63	3127.63	0.0	0.0	0.0	0.0
14	5.506e+05	1.066e+06	5.506e+05	1.066e+06	599.98	2695.12	2695.12	0.0	0.0	0.0	0.0

19	5.505e+05	5.505e+05	5.505e+05	5.505e+05	540.00	2038.79	2038.79	0.0	0.0	0.0	0.0
20	5.505e+05	5.505e+05	5.505e+05	5.505e+05	540.00	2038.79	2038.79	0.0	0.0	0.0	0.0
21	5.505e+05	5.505e+05	5.505e+05	5.505e+05	570.00	1931.48	1931.48	0.0	0.0	0.0	0.0
22	5.505e+05	5.505e+05	5.505e+05	5.505e+05	460.00	2393.36	2393.36	0.0	0.0	0.0	0.0
23	5.505e+05	5.505e+05	5.505e+05	5.505e+05	570.00	1931.48	1931.48	0.0	0.0	0.0	0.0
24	5.505e+05	5.505e+05	5.505e+05	5.505e+05	460.00	2393.36	2393.36	0.0	0.0	0.0	0.0
25	5.505e+05	5.505e+05	5.505e+05	5.505e+05	390.00	2822.94	2822.94	0.0	0.0	0.0	0.0
26	5.505e+05	5.505e+05	5.505e+05	5.505e+05	570.00	1931.48	1931.48	0.0	0.0	0.0	0.0
27	5.505e+05	5.505e+05	5.505e+05	5.505e+05	570.00	1931.48	1931.48	0.0	0.0	0.0	0.0
28	5.505e+05	5.505e+05	5.505e+05	5.505e+05	390.00	2822.94	2822.94	0.0	0.0	0.0	0.0
31	5.505e+05	5.505e+05	5.505e+05	5.505e+05	290.00	3796.36	3796.36	0.0	0.0	0.0	0.0
32	5.505e+05	5.505e+05	5.505e+05	5.505e+05	290.00	3796.36	3796.36	0.0	0.0	0.0	0.0
33	5.505e+05	5.505e+05	5.505e+05	5.505e+05	599.98	1834.96	1834.96	0.0	0.0	0.0	0.0
34	5.505e+05	5.505e+05	5.505e+05	5.505e+05	599.98	1834.96	1834.96	0.0	0.0	0.0	0.0
35	5.505e+05	5.505e+05	5.505e+05	5.505e+05	599.98	1834.96	1834.96	0.0	0.0	0.0	0.0
36	5.505e+05	5.505e+05	5.505e+05	5.505e+05	540.00	2038.79	2038.79	0.0	0.0	0.0	0.0
37	5.505e+05	5.505e+05	5.505e+05	5.505e+05	540.00	2038.79	2038.79	0.0	0.0	0.0	0.0
38	5.505e+05	5.505e+05	5.505e+05	5.505e+05	570.00	1931.48	1931.48	0.0	0.0	0.0	0.0
39	5.505e+05	5.505e+05	5.505e+05	5.505e+05	570.00	1931.48	1931.48	0.0	0.0	0.0	0.0
40	5.505e+05	5.505e+05	5.505e+05	5.505e+05	570.00	1931.48	1931.48	0.0	0.0	0.0	0.0
41	5.505e+05	5.505e+05	5.505e+05	5.505e+05	570.00	1931.48	1931.48	0.0	0.0	0.0	0.0

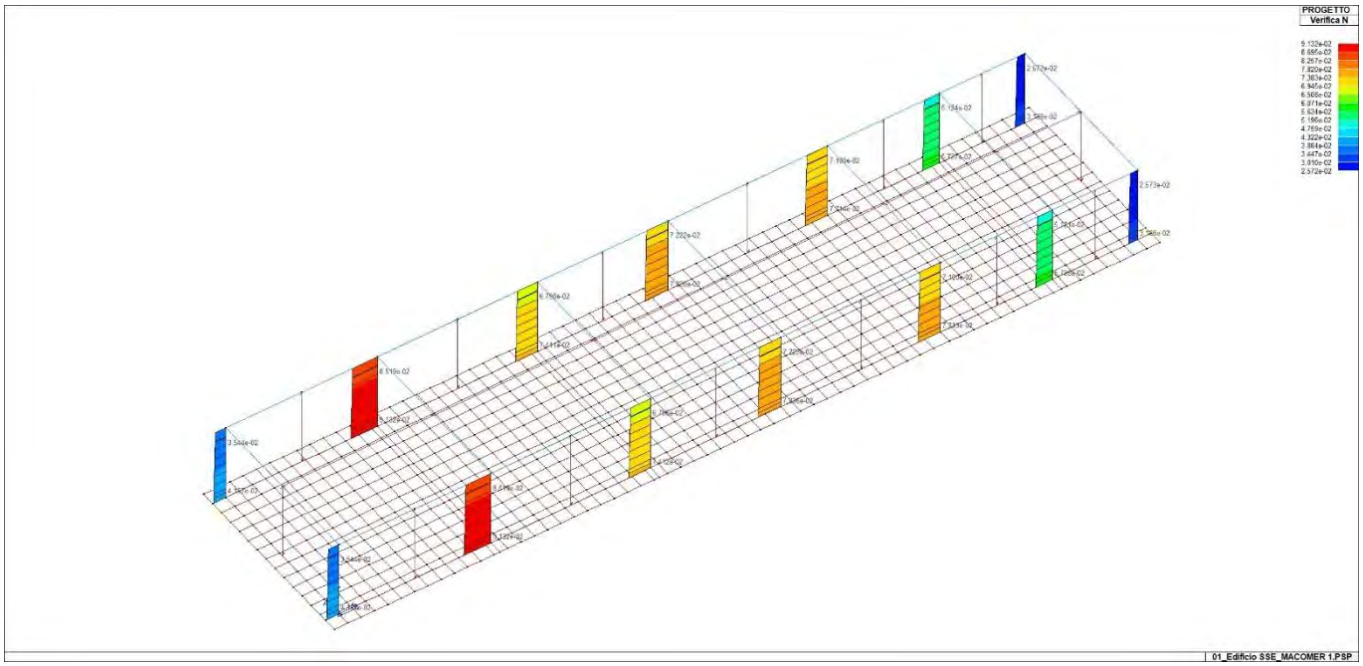
Trave	M negativo i	M positivo i	M negativo f	M positivo f	V M-i M+f	V M+i M-f	VEd,min	VEd,max	Vr1	As
							0.0			
	8.094e+05	1.323e+06	8.094e+05	1.323e+06	3796.36	3796.36		0.0	0.0	0.0



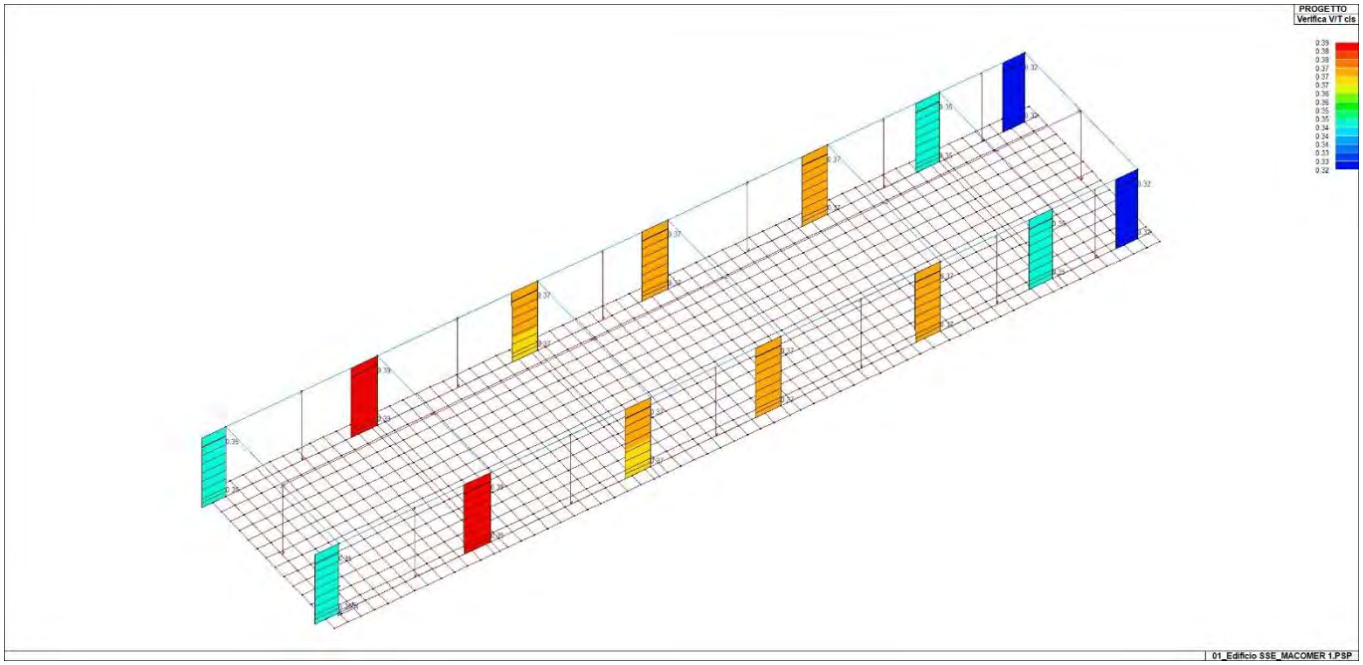
71_PRO_CA_PIL_STAB



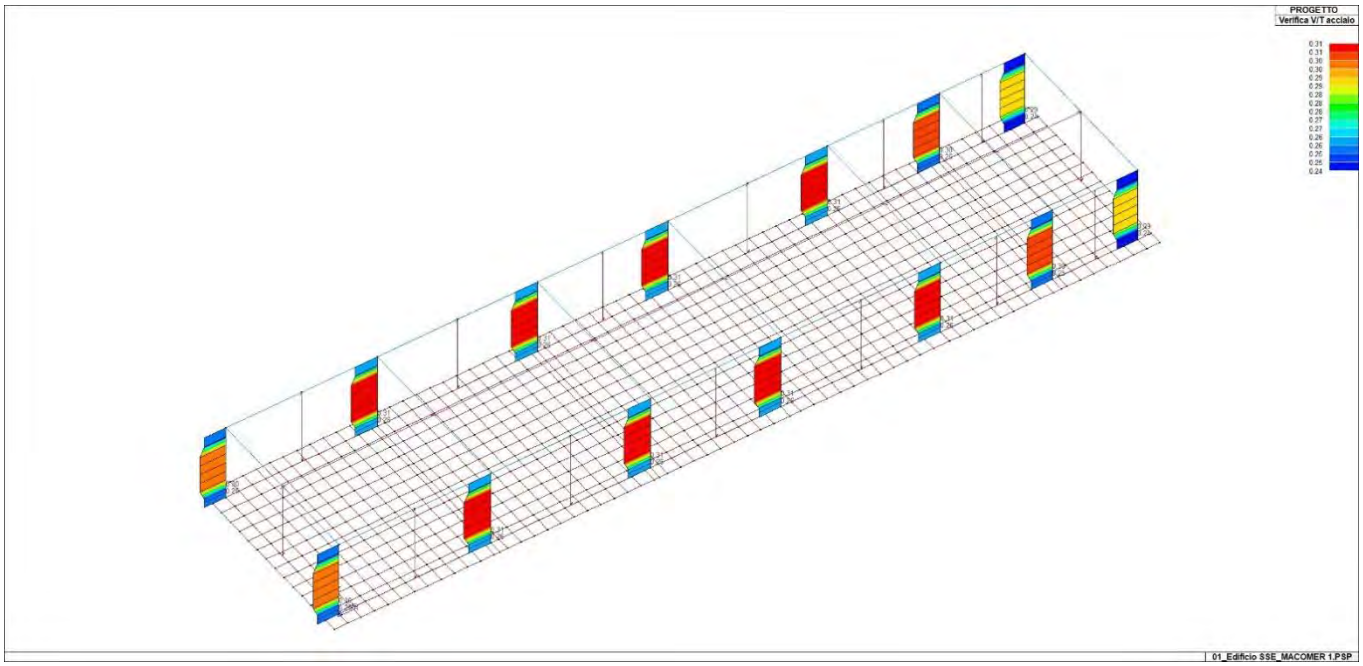
71_PRO_CA_PIL_VER_NM



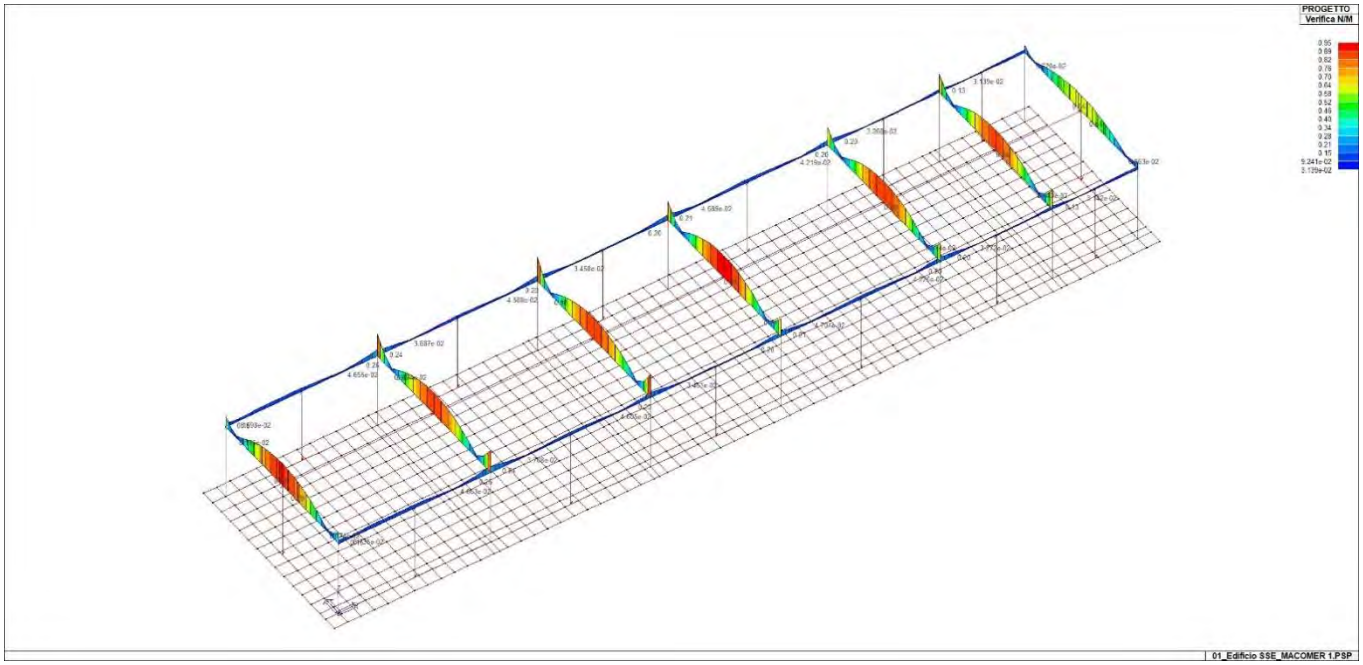
71_PRO_CA_PIL_VER_NSIS



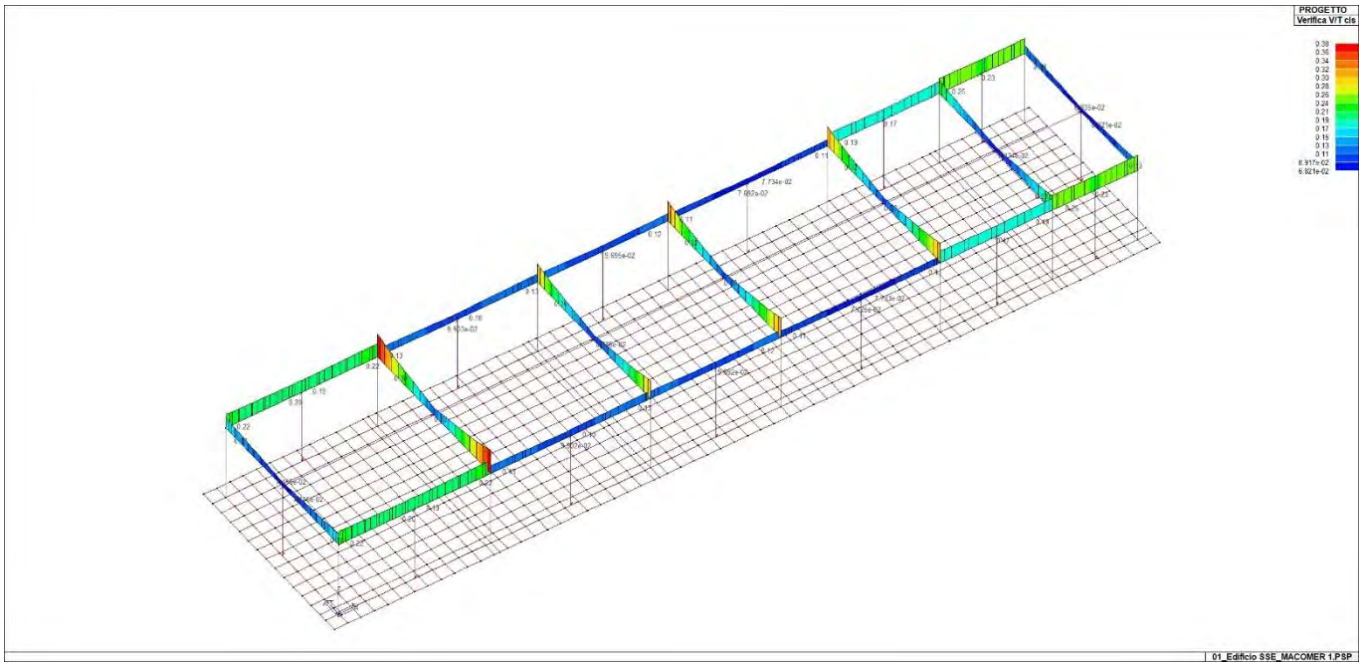
71_PRO_CA_PIL_VER_VRCD



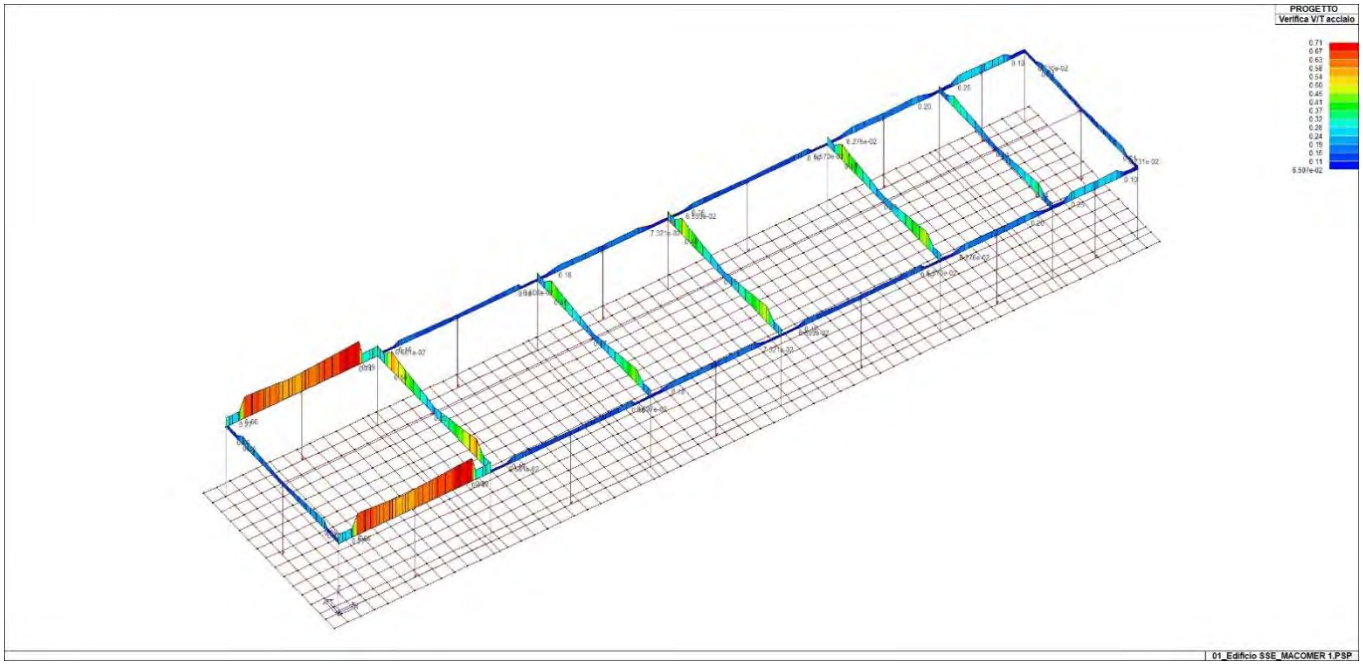
71_PRO_CA_PIL_VER_VRSD



71_PRO_CA_TRV_VER_NM



71_PRO_CA_TRV_VER_VRCD



71_PRO_CA_TRV_VER_VRSD

21. VERIFICHE ELEMENTI PARETE E/O GUSCIO IN C.A.

21.1. LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

Per le pareti in c.a., in ottemperanza al cap. 7 del DM 17-01-18, viene effettuata una doppia progettazione: sia come *Singolo Elemento* sia come *Parete Sismica* o *Parete Debolmente Armata.*

Per la progettazione come *Singolo Elemento* di ogni elemento vengono riportati il codice dello stato di verifica con le sigle **Ok e NV,** il rapporto x/d, la verifica per sollecitazioni ultime (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti), gli sforzi membranali e flessionali, il quantitativo di armatura nella direzione principale e secondaria sia inferiore che superiore e il quantitativo di armatura a taglio.

Per la progettazione come *Parete Sismica* o *Parete Debolmente Armata* vengono riportate invece le caratteristiche geometriche della parete e delle zone dissipative (quest'ultime solo nel caso di parete sismica), i coefficienti di verifica a compressione assiale, pressoflessione e sollecitazioni taglianti.

Inoltre vengono riportate per ogni quota significativa l'armatura principale e secondaria, l'armatura in zona confinata (solo per parete sismica) e non confinata, l'armatura concentrata all'estremità (per pareti debolmente armate), lo sforzo assiale aggiuntivo per q superiore a 2 e i valori di inviluppo di taglio e momento. Per le pareti debolmente armate viene riportato anche lo stato di verifica relativo alla snellezza.

Le azioni derivate dall'analisi, in ogni combinazione di calcolo, sono elaborate come previsto al punto 7.4.4.5.1: traslazione del momento, incremento e variazione diagramma taglio, incremento e decremento sforzo assiale

La progettazione nel caso dei gusci viene effettuata una progettazione come *Singolo Elemento,* riportando in tabella il rapporto x/d, la verifica per sollecitazioni ultime, (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti) di ogni elemento.

Per ogni elemento, viene riportata inoltre la maglia di armatura necessaria in relazione alle risultanze della progettazione dei nodi dell'elemento stesso. Le quantità di armature necessarie sono armature (disposte rispettivamente in direzione principale e secondaria, inferiore e superiore) distribuite nell'elemento ed espresse in centimetri quadri per sviluppo lineare pari ad un metro.

Nel caso dei gusci viene effettuata, inoltre, la verifica a punzonamento, riportando in tabella il codice dello stato di verifica, il coefficiente di verifica per piastre prive di armature a taglio lungo il perimetro resistente e lungo il perimetro del pilastro, coefficiente di incremento dovuto ai momenti flettenti, fattore di amplificazione per le fondazioni, il fattorei di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta, il quantitativo di armatura a punzonamento, il numero di serie di armature, il numero di braccia di armatura ed il riferimento alla combinazione più gravosa.

Simbologia adottata nelle tabelle di verifica

Per gli elementi con progettazione "*Singolo Elemento …*" è presente una tabella con i simboli di seguito descritti:

Macro Guscio	Numero del macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)
Macro Setto	Numero del macroelemento di tipo setto (elementi verticali contigui ed analoghi per

	proprietà)
Spessore	Spessore della parete
Id Materiale	Codice del materiale assegnato all'elemento
Id Criterio	Codice del criterio di progetto assegnato all'elemento
Progettazione	Sigla tipo di Elemento: - Singolo Elemento; - Singolo Elemento FONDAZIONE; - Singolo Elemento NON DISSIPATIVO

Per gli elementi con progettazione "*Parete Sismica o Parete Debolmente Armata*" è presente una tabella con i simboli di seguito descritti:

Parete	Numero della PARETE SISMICA
Parete PDA	Numero della PARETE DEBOLMENTE ARMATA
H totale	Altezza complessiva della parete
Spessore	Spessore della parete
H critica	Altezza come da punto 7.4.4.5.1 per traslazione momento (solo in Parete Sismica)
H critica V	Altezza della zona dissipativa (solo in Parete Sismica)
L totale	Larghezza di base della parete
L confinata	Lunghezza della zona dissipativa (solo in Parete Sismica)
Verif. N	Verifica di cui al punto 7.4.4.5.1 compressione semplice
Verif. N-M	Verifica di cui al punto 7.4.4.5.1 pressoflessione
Fattore V	Fattore di amplificazione del taglio di cui al punto 7.4.4.5.1
Diagramma V	Diagramma elaborato per effetto modi superiori come da fig. 7.4.4
Verif. V	Verifica di cui al punto 7.4.4.5.1 taglio (compressione cls, trazione acciaio, scorrimento in zona critica) (solo in Parete Sismica)
Verifica Snellezza	Verifica di cui al punto 7.4.4.5.1 limitazione compressione per prevenire l'instabilità (solo in Parete Debolmente Armata)
Prog. composta	Sigla per la progettazione composta

Per le verifiche degli elementi con progettazione "*Singolo Elemento …*" e *Progettazione Composta* è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento **ok** o **NV**
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola

	flessione)
V N/M	Verifica delle sollecitazioni Normali (momento e sforzo normale)
Ver. rid	Rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd)
Af pr+	quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af pr-	quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec+	quantità di armatura richiesta in direzione secondaria relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	quantità di armatura richiesta in direzione secondaria relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Nz No Nzo	Sforzi membranali per pareti e\o setti verticali
Mz Mo Mzo	Sforzi flessionali per pareti e\o setti verticali
Nx Ny Nxy	Sforzi membranali per gusci orizzontali
Mx Mx Mxy	Sforzi flessionali per gusci orizzontali

Nodo	numero del nodo
Stato	codice di verifica dell'elemento **ok** o **NV**
Max tau	Tensione tangenziale Massima
Ver V pr	Verifica a taglio nella direzione principale lato calcestruzzo
Ver V sec	Verifica a taglio nella direzione secondaria lato calcestruzzo
Af V pr	Armatura nella direzione principale
V pr-	Verifica dell'armatura nella direzione principale
Af V sec	Armatura nella direzione secondaria
V sec-	Verifica dell'armatura nella direzione secondaria

Per le verifiche degli elementi con progettazione "*Parete Sismica o Parete Debolmente Armata*", oltre alla tabella con le verifiche per gli elementi con progettazione "*Singolo Elemento …*", è presente una tabella con i simboli di seguito descritti:

Quota	Ascissa verticale di riferimento
Af conf.	Numero e diametro armatura presente in una zona confinata
Af std	Diametro e passo armatura in zona non confinata (doppia maglia)

Af estremi	Diametro dei ferri di estremità del pannello; se posto uguale 0, viene utilizzato il diametro standard
Af V (ori)	Diametro e passo armatura orizzontale (doppia maglia)
Ver. N	Rapporto tra azione di calcolo e resistenza a compressione (normalizzato a 1 in quanto da confrontare con 40% in CDB e 35 % in CDA)
Ver. N/M	Rapporto tra azione di calcolo e resistenza a pressoflessione
Ver. V acc(7)	Rapporto tra azione di calcolo e resistenza a taglio-trazione per alfaS minore di 2 secondo paragrafo 7.4.4.5.1
Ver. V cls	Rapporto tra azione di calcolo e resistenza a taglio-compressione
Ver. V acc	Rapporto tra azione di calcolo e resistenza a taglio-trazione
Ver. V scorr.	Rapporto tra azione di calcolo e resistenza a taglio scorrimento
N add	Sforzo assiale di cui al punto 7.4.4.5.1 da sommare e sottrarre nelle verifiche quando q supera 2
N invil M invil	Inviluppo del Momento e Sforzo Normale come al punto 7.4.4.5.1 (informativo) (solo in Parete Sismica)

Quota	Ascissa verticale di riferimento
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore
N v.Vacc, M v.Vacc, V v.Vacc,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. acc attinge il massimo valore
N v.Vscorr, M v.Vscorr, V v.Vscorr,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. scorr.e
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore

Quota	Ascissa verticale di riferimento
CtgT Vcls	Valore di ctg(teta) adottato nella verifica V compressione cls
Vrsd Vcls	Valore della resistenza a taglio trazione (armatura di calcolo)
Vrcd Vcls	Valore della resistenza a taglio compressione
CtgT Vacc	Valore di ctg(teta) adottato nella verifica V trazione armatura
Vrsd Vacc	Valore della resistenza a taglio trazione (armatura presente)
Vrcd Vacc	Valore della resistenza a taglio compressione
Vdd	Valore del contributo alla resistenza allo scorrimento come da [7.4.20]
Vid	Valore del contributo alla resistenza allo scorrimento come da [7.4.21]
A s.i.	Somma delle aree di armature
Incli.	Angolo di inclinazione delle armature
Dist.	Distanza alla base tra le armature inclinate

Quota	Ascissa verticale di riferimento
V[7.4.16]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.16)
N M V	Sollecitazioni di calcolo della condizione più gravosa
Alfas	Rapporto di Taglio
Vrd,c	Resistenza a taglio degli elementi non armati
VRd,s	Resistenza a taglio nei confronti dello scorrimento
V[7.4.17]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.17)
roH	Rapporto tra l'armatura orizzontale e l'area della sezione relativa di calcestruzzo
roV	Rapporto tra l'armatura verticale e l'area della sezione relativa di calcestruzzo
roN	Sforzo normale adimensionalizzato Ned/(bw fyd)

Per la verifica a *Punzonamento* è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento **ok** o **NV**
V. 6.47	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro resistente U1

V. 6.53	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro del pilastro U0
Beta	Fattore di incremento dovuto ai momenti flettenti
f. a fon	fattore di amplificazione per le fondazioni (solo per gusci di fondazione)
f. Uout	fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta
Aw tot	Quantitativo di armatura per la verifica di piastre munite di armatura (formula 6.52 dell'EC2)
Asw,min	Quantitativo minimo di armatura previsto dai dettagli costruttivi (formula 9.11 dell'EC2)
n. x serie	Numero di serie di armature
n.ser 0(R)	Numero di braccia delle armatura in direzione 0 (o numero di braccia radiale)
n.ser 90	Numero di braccia delle armatura in direzione 90 (solo se armatura cruciforme)
Rif. cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

21.2. **PROGETTAZIONE DELLE FONDAZIONI**

Il D.M.17/01/2018 - par: 7.2.5 prevede:

"Sia per CD"A" sia per CD"B" il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:

- quella derivante dall'analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;
- […];
- quella trasferita dagli elementi soprastanti nell'ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD"A" e 1,10 in CD"B";

Nel contesto visualizzazione risultati e nella stampa della relazione sulle fondazioni PRO_SAP mostra le sollecitazioni che derivano dall'analisi non incrementate sia in termini di pressioni sul terreno che in termini di sollecitazioni.

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO_SAP (per travi e platee) o da PRO_CAD Plinti (per plinti e pali di fondazione) incrementando le sollecitazioni delle combinazioni con sisma di un coefficiente pari 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l'incremento delle sollecitazioni ha un fattore pari a 1.2 in CDB e 1.35 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

N.B.: nel caso di comportamento strutturale non dissipativo le verifiche geotecniche vengono effettuate senza

nessun incremento.

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
1	40.00	5	1	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok	0.07	0.2	1.00e-02	12.7	12.7	12.7	12.7	28.4	51.2	-24.6	-1391.7	-1672.5	1185.9
3	ok	0.07	0.2	1.05e-02	12.7	12.7	12.7	12.7	19.1	54.8	17.9	-1523.0	-1615.2	-1177.9
9	ok	0.07	0.3	2.38e-02	12.7	12.7	12.7	12.7	-8.3	107.9	-57.1	-3609.3	-3286.0	996.4
11	ok	0.07	0.4	2.89e-02	12.7	12.7	12.7	12.7	-14.9	161.7	-72.2	-5590.1	-4813.2	1629.9
12	ok	0.07	0.3	2.18e-02	12.7	12.7	12.7	12.7	8.2	105.9	-67.8	-5025.1	-3900.2	635.4
13	ok	0.07	0.4	2.20e-02	12.7	12.7	12.7	12.7	14.0	115.5	59.2	-5127.8	-3971.3	-1026.8
15	ok	0.07	0.3	1.99e-02	12.7	12.7	12.7	12.7	9.9	102.9	59.0	-5054.9	-3912.9	-655.5
17	ok	0.07	0.3	1.80e-02	12.7	12.7	12.7	12.7	-8.6	101.2	46.9	-3649.9	-3303.8	-953.6
21	ok	0.07	0.5	3.82e-02	12.7	12.7	12.7	12.7	-13.6	171.9	88.5	-5507.4	-4769.8	-1685.2
22	ok	0.07	0.6	4.54e-02	12.7	12.7	12.7	12.7	-19.8	202.7	103.2	-7376.8	-5892.1	-1842.2
23	ok	0.07	0.4	2.38e-02	12.7	12.7	12.7	12.7	14.7	117.4	-70.0	-5051.4	-3963.9	994.2
24	ok	0.07	8.45e-02	1.60e-05	12.7	12.7	12.7	12.7	1.4	3.6	1.4	422.3	1509.2	62.6
25	ok	0.07	0.1	4.85e-03	12.7	12.7	12.7	12.7	9.9	23.4	10.6	-857.6	-1034.6	-500.8
27	ok	0.07	0.1	5.12e-03	12.7	12.7	12.7	12.7	6.0	25.1	-8.0	-916.5	-1007.7	486.0
29	ok	0.07	0.1	1.15e-02	12.7	12.7	12.7	12.7	11.1	25.2	12.6	512.6	732.4	1081.1
30	ok	0.07	9.13e-02	3.52e-03	12.7	12.7	12.7	12.7	-6.4	27.9	3.1	364.5	914.3	931.7
31	ok	0.07	9.73e-02	4.96e-03	12.7	12.7	12.7	12.7	-11.7	-9.8	-16.1	-1021.1	847.3	321.0
32	ok	0.07	0.1	1.14e-03	12.7	12.7	12.7	12.7	1.5	8.4	10.3	443.0	1208.0	866.6
33	ok	0.07	0.1	9.24e-04	12.7	12.7	12.7	12.7	27.0	12.5	6.8	391.5	1362.3	787.6
34	ok	0.07	9.77e-02	2.13e-05	12.7	12.7	12.7	12.7	1.7	7.2	3.4	505.0	1493.4	552.8
35	ok	0.07	0.1	1.83e-04	12.7	12.7	12.7	12.7	2.1	9.1	1.5	206.3	1630.6	647.9
36	ok	0.07	9.87e-02	5.38e-05	12.7	12.7	12.7	12.7	0.5	6.2	1.7	482.2	1645.6	385.2
37	ok	0.07	0.1	5.37e-05	12.7	12.7	12.7	12.7	0.2	7.0	0.7	194.7	1792.8	469.9
38	ok	0.07	9.84e-02	4.47e-05	12.7	12.7	12.7	12.7	0.3	5.4	0.9	453.8	1715.0	235.6
39	ok	0.07	0.1	3.75e-05	12.7	12.7	12.7	12.7	3.58e-02	6.0	0.4	188.5	1857.3	293.5
40	ok	0.07	9.77e-02	3.08e-05	12.7	12.7	12.7	12.7	0.4	5.0	0.4	435.0	1740.3	94.7
41	ok	0.07	0.1	3.55e-05	12.7	12.7	12.7	12.7	6.26e-02	5.7	0.2	183.0	1879.4	118.7
42	ok	0.07	9.76e-02	2.23e-05	12.7	12.7	12.7	12.7	0.4	5.0	-0.1	432.2	1743.1	-42.4
43	ok	0.07	0.1	3.43e-05	12.7	12.7	12.7	12.7	5.87e-02	5.6	-3.23e-02	182.2	1881.9	-54.7
44	ok	0.07	9.81e-02	3.69e-05	12.7	12.7	12.7	12.7	0.3	5.3	-0.7	447.2	1727.3	-181.1
45	ok	0.07	0.1	3.68e-05	12.7	12.7	12.7	12.7	2.96e-02	5.8	-0.3	187.5	1868.6	-228.2
46	ok	0.07	9.86e-02	4.53e-05	12.7	12.7	12.7	12.7	0.5	6.0	-1.4	476.2	1678.1	-326.8
47	ok	0.07	0.1	5.30e-05	12.7	12.7	12.7	12.7	0.2	6.6	-0.5	197.0	1825.2	-404.7
48	ok	0.07	9.86e-02	2.47e-05	12.7	12.7	12.7	12.7	1.5	7.2	-3.2	509.7	1565.2	-487.7
49	ok	0.07	0.1	1.92e-04	12.7	12.7	12.7	12.7	2.0	8.5	-1.2	222.5	1708.1	-588.9
50	ok	0.07	0.1	9.00e-04	12.7	12.7	12.7	12.7	0.2	9.5	-9.8	480.1	1351.0	-752.6
51	ok	0.07	0.1	7.48e-04	12.7	12.7	12.7	12.7	24.2	13.1	-7.3	440.6	1538.8	-752.3
52	ok	0.07	9.00e-02	3.20e-03	12.7	12.7	12.7	12.7	17.4	14.1	23.7	626.8	1101.3	-560.5
53	ok	0.07	9.97e-02	4.31e-03	12.7	12.7	12.7	12.7	-11.2	-1.8	21.6	-630.2	1064.3	-623.1
54	ok	0.07	0.1	1.22e-02	12.7	12.7	12.7	12.7	6.2	40.9	-11.7	525.0	799.3	-1080.9
55	ok	0.07	9.01e-02	2.82e-03	12.7	12.7	12.7	12.7	-9.0	19.2	-4.1	1095.4	582.4	664.8
56	ok	0.07	9.33e-02	1.09e-03	12.7	12.7	12.7	12.7	6.0	13.1	-1.4	1137.4	831.9	661.7
57	ok	0.07	9.19e-02	3.27e-04	12.7	12.7	12.7	12.7	1.2	7.7	4.1	895.8	1118.2	619.9
58	ok	0.07	9.09e-02	4.98e-05	12.7	12.7	12.7	12.7	1.8	4.8	3.0	799.1	1365.7	460.0
59	ok	0.07	9.13e-02	5.41e-05	12.7	12.7	12.7	12.7	1.2	4.3	2.0	714.2	1518.9	322.0
60	ok	0.07	9.13e-02	3.03e-05	12.7	12.7	12.7	12.7	1.0	4.1	1.2	652.3	1594.6	195.6
61	ok	0.07	9.11e-02	3.99e-06	12.7	12.7	12.7	12.7	0.9	4.0	0.5	617.0	1624.9	78.5
62	ok	0.07	9.11e-02	0.0	12.7	12.7	12.7	12.7	0.9	4.0	-0.2	611.6	1628.6	-34.3
63	ok	0.07	9.12e-02	1.68e-05	12.7	12.7	12.7	12.7	0.9	4.1	-0.9	636.6	1609.6	-148.6
64	ok	0.07	9.13e-02	3.60e-05	12.7	12.7	12.7	12.7	1.2	4.3	-1.8	689.9	1554.9	-270.0
65	ok	0.07	9.11e-02	2.35e-05	12.7	12.7	12.7	12.7	1.8	4.7	-2.7	766.0	1438.8	-401.0
66	ok	0.07	9.11e-02	1.75e-04	12.7	12.7	12.7	12.7	2.2	5.7	-2.4	847.3	1230.8	-554.1
67	ok	0.07	9.77e-02	5.17e-04	12.7	12.7	12.7	12.7	4.4	17.5	-5.1	1052.3	1003.8	-698.9
68	ok	0.07	9.00e-02	3.32e-03	12.7	12.7	12.7	12.7	-5.8	24.7	5.3	1124.1	651.3	-651.7
69	ok	0.07	9.89e-02	6.79e-04	12.7	12.7	12.7	12.7	-3.4	2.1	-0.5	1558.0	342.3	556.7
70	ok	0.07	9.15e-02	3.32e-04	12.7	12.7	12.7	12.7	-1.4	3.1	0.4	1405.2	662.8	483.2
71	ok	0.07	8.50e-02	8.73e-05	12.7	12.7	12.7	12.7	1.4	1.2	1.5	1189.8	1002.3	417.0
72	ok	0.07	8.29e-02	6.41e-05	12.7	12.7	12.7	12.7	1.9	1.8	2.0	1016.5	1262.8	320.7

73	ok	0.07	8.37e-02	4.72e-05	12.7	12.7	12.7	12.7	1.7	2.4	1.7	883.5	1417.1	224.6
74	ok	0.07	8.50e-02	7.52e-06	12.7	12.7	12.7	12.7	1.6	2.6	1.1	790.9	1498.3	135.9
75	ok	0.07	8.58e-02	0.0	12.7	12.7	12.7	12.7	1.5	2.7	0.4	740.0	1533.3	54.5
76	ok	0.07	8.59e-02	0.0	12.7	12.7	12.7	12.7	1.5	2.7	-0.2	731.8	1538.1	-23.3
77	ok	0.07	8.54e-02	0.0	12.7	12.7	12.7	12.7	1.6	2.7	-0.9	766.3	1515.8	-102.5
78	ok	0.07	8.42e-02	2.60e-05	12.7	12.7	12.7	12.7	1.8	2.5	-1.5	842.5	1455.4	-187.8
79	ok	0.07	8.30e-02	3.64e-05	12.7	12.7	12.7	12.7	2.0	2.1	-1.9	958.6	1333.8	-282.0
80	ok	0.07	8.38e-02	4.64e-05	12.7	12.7	12.7	12.7	1.9	1.9	-1.9	1116.9	1118.5	-383.2
81	ok	0.07	8.85e-02	2.31e-04	12.7	12.7	12.7	12.7	-0.2	3.3	-1.0	1312.7	797.8	-465.6
82	ok	0.07	9.88e-02	5.80e-04	12.7	12.7	12.7	12.7	-3.4	3.0	0.5	1554.6	347.7	-557.2
83	ok	0.07	0.1	6.55e-04	12.7	12.7	12.7	12.7	-4.3	-0.2	-0.3	1753.9	324.6	261.3
84	ok	0.07	9.07e-02	3.77e-04	12.7	12.7	12.7	12.7	-2.2	0.1	4.46e-02	1581.7	627.1	215.8
85	ok	0.07	7.90e-02	1.13e-04	12.7	12.7	12.7	12.7	0.4	2.92e-03	0.6	1342.6	959.2	186.4
86	ok	0.07	7.34e-02	7.18e-05	12.7	12.7	12.7	12.7	1.6	0.5	1.0	1136.0	1200.8	144.5
87	ok	0.07	7.68e-02	3.98e-05	12.7	12.7	12.7	12.7	2.0	1.0	1.0	973.9	1353.3	99.7
88	ok	0.07	8.05e-02	0.0	12.7	12.7	12.7	12.7	2.1	1.5	0.7	861.2	1438.6	59.1
89	ok	0.07	8.24e-02	0.0	12.7	12.7	12.7	12.7	2.1	1.7	0.3	799.6	1477.3	23.4
90	ok	0.07	8.27e-02	0.0	12.7	12.7	12.7	12.7	2.1	1.7	-0.2	789.4	1482.9	-9.7
91	ok	0.07	8.15e-02	0.0	12.7	12.7	12.7	12.7	2.1	1.6	-0.6	830.5	1457.7	-44.0
92	ok	0.07	7.84e-02	2.12e-05	12.7	12.7	12.7	12.7	2.1	1.3	-1.0	922.8	1392.5	-82.7
93	ok	0.07	7.41e-02	4.91e-05	12.7	12.7	12.7	12.7	1.8	0.8	-1.1	1065.3	1268.6	-126.9
94	ok	0.07	7.56e-02	8.56e-05	12.7	12.7	12.7	12.7	1.0	0.4	-0.8	1255.0	1063.6	-172.1
95	ok	0.07	8.57e-02	2.71e-04	12.7	12.7	12.7	12.7	-1.0	0.2	-0.2	1482.6	761.7	-207.3
96	ok	0.07	0.1	6.40e-04	12.7	12.7	12.7	12.7	-4.2	-0.2	0.4	1753.1	324.0	-260.8
97	ok	0.07	0.1	6.62e-04	12.7	12.7	12.7	12.7	-4.4	-0.1	-0.2	1792.4	329.3	-80.0
98	ok	0.07	9.00e-02	3.91e-04	12.7	12.7	12.7	12.7	-2.6	-0.4	-0.2	1612.5	619.7	-63.8
99	ok	0.07	7.65e-02	1.42e-04	12.7	12.7	12.7	12.7	-0.1	-0.5	-1.86e-02	1364.8	945.6	-57.7
100	ok	0.07	6.79e-02	6.92e-05	12.7	12.7	12.7	12.7	1.3	-4.03e-03	0.3	1149.7	1180.6	-51.6
101	ok	0.07	7.46e-02	3.49e-05	12.7	12.7	12.7	12.7	2.0	0.5	0.3	977.3	1334.5	-42.5
102	ok	0.07	7.94e-02	2.30e-06	12.7	12.7	12.7	12.7	2.3	0.9	0.2	857.2	1423.7	-28.8
103	ok	0.07	8.17e-02	0.0	12.7	12.7	12.7	12.7	2.4	1.1	9.36e-02	791.7	1465.4	-12.1
104	ok	0.07	8.20e-02	0.0	12.7	12.7	12.7	12.7	2.4	1.2	-9.71e-02	781.1	1471.5	5.4
105	ok	0.07	8.05e-02	0.0	12.7	12.7	12.7	12.7	2.3	1.0	-0.3	824.3	1444.0	22.9
106	ok	0.07	7.67e-02	2.30e-05	12.7	12.7	12.7	12.7	2.1	0.7	-0.4	922.5	1374.6	37.7
107	ok	0.07	7.02e-02	5.07e-05	12.7	12.7	12.7	12.7	1.6	0.3	-0.3	1074.5	1247.5	48.3
108	ok	0.07	7.17e-02	1.04e-04	12.7	12.7	12.7	12.7	0.5	-0.1	-6.88e-02	1274.9	1045.4	54.4
109	ok	0.07	8.44e-02	2.65e-04	12.7	12.7	12.7	12.7	-1.5	-0.3	0.2	1511.2	753.2	59.1
110	ok	0.07	0.1	6.51e-04	12.7	12.7	12.7	12.7	-4.3	-9.11e-02	0.3	1791.9	328.3	77.7
111	ok	0.07	0.1	6.47e-04	12.7	12.7	12.7	12.7	-4.3	-0.1	-0.2	1683.1	327.4	-413.1
112	ok	0.07	9.03e-02	3.91e-04	12.7	12.7	12.7	12.7	-2.6	-0.2	-0.3	1507.7	621.3	-337.0
113	ok	0.07	8.05e-02	1.83e-04	12.7	12.7	12.7	12.7	-0.2	-0.2	-0.4	1265.2	953.5	-298.2
114	ok	0.07	7.71e-02	1.15e-04	12.7	12.7	12.7	12.7	1.3	8.02e-02	-0.3	1054.0	1200.0	-246.9
115	ok	0.07	7.94e-02	4.34e-05	12.7	12.7	12.7	12.7	2.0	0.5	-0.3	889.0	1363.3	-183.5
116	ok	0.07	8.23e-02	1.07e-05	12.7	12.7	12.7	12.7	2.4	0.9	-0.2	776.8	1457.8	-115.2
117	ok	0.07	8.38e-02	0.0	12.7	12.7	12.7	12.7	2.4	1.2	-0.1	716.7	1501.5	-47.0
118	ok	0.07	8.41e-02	0.0	12.7	12.7	12.7	12.7	2.4	1.2	-1.16e-02	707.7	1507.2	20.3
119	ok	0.07	8.30e-02	0.0	12.7	12.7	12.7	12.7	2.4	1.1	4.76e-02	746.2	1479.1	88.3
120	ok	0.07	8.06e-02	2.24e-05	12.7	12.7	12.7	12.7	2.1	0.7	0.1	837.3	1405.6	156.8
121	ok	0.07	7.75e-02	9.05e-05	12.7	12.7	12.7	12.7	1.5	0.3	0.3	981.6	1270.5	222.6
122	ok	0.07	7.81e-02	1.56e-04	12.7	12.7	12.7	12.7	0.3	1.07e-02	0.4	1175.9	1057.5	279.1
123	ok	0.07	8.58e-02	2.54e-04	12.7	12.7	12.7	12.7	-1.5	-0.2	0.5	1408.0	756.0	322.9
124	ok	0.07	0.1	6.26e-04	12.7	12.7	12.7	12.7	-4.1	-7.63e-02	0.3	1683.2	326.7	409.8
125	ok	0.07	9.92e-02	6.02e-04	12.7	12.7	12.7	12.7	-3.9	8.82e-03	-0.3	1409.9	317.9	-738.0
126	ok	0.07	9.01e-02	3.64e-04	12.7	12.7	12.7	12.7	-2.3	0.2	-0.6	1249.7	623.8	-604.3
127	ok	0.07	8.57e-02	1.92e-04	12.7	12.7	12.7	12.7	-8.08e-02	0.3	-0.8	1026.4	982.3	-533.1
128	ok	0.07	8.53e-02	1.40e-04	12.7	12.7	12.7	12.7	1.3	0.7	-0.9	841.6	1260.6	-430.8
129	ok	0.07	8.67e-02	5.08e-05	12.7	12.7	12.7	12.7	2.0	1.1	-0.9	708.5	1440.7	-310.0
130	ok	0.07	8.79e-02	1.42e-05	12.7	12.7	12.7	12.7	2.2	1.6	-0.7	624.6	1539.1	-189.6
131	ok	0.07	8.85e-02	0.0	12.7	12.7	12.7	12.7	2.2	1.9	-0.3	581.8	1582.1	-76.2
132	ok	0.07	8.86e-02	0.0	12.7	12.7	12.7	12.7	2.2	1.9	8.37e-02	576.7	1586.7	32.5
133	ok	0.07	8.82e-02	0.0	12.7	12.7	12.7	12.7	2.2	1.7	0.4	602.2	1560.4	143.9
134	ok	0.07	8.71e-02	2.86e-05	12.7	12.7	12.7	12.7	2.1	1.3	0.7	668.6	1485.5	261.9
135	ok	0.07	8.56e-02	1.15e-04	12.7	12.7	12.7	12.7	1.5	0.9	0.8	781.6	1338.9	384.2
136	ok	0.07	8.50e-02	1.72e-04	12.7	12.7	12.7	12.7	0.3	0.6	0.9	947.0	1099.0	495.8
137	ok	0.07	8.76e-02	2.63e-04	12.7	12.7	12.7	12.7	-1.4	0.4	0.9	1157.4	764.3	580.8
138	ok	0.07	9.91e-02	5.75e-04	12.7	12.7	12.7	12.7	-3.7	5.57e-02	0.5	1410.9	317.8	733.8
139	ok	0.07	9.36e-02	6.05e-04	12.7	12.7	12.7	12.7	-2.8	1.4	-0.8	925.9	297.7	-1021.3
140	ok	0.07	8.71e-02	3.59e-04	12.7	12.7	12.7	12.7	-2.0	2.1	-1.1	791.1	624.0	-852.0
141	ok	0.07	8.93e-02	1.86e-04	12.7	12.7	12.7	12.7	0.1	1.5	-1.3	618.4	1033.8	-746.2
142	ok	0.07	9.25e-02	1.43e-04	12.7	12.7	12.7	12.7	1.6	1.8	-1.5	500.8	1369.5	-577.8
143	ok	0.07	9.45e-02	4.90e-05	12.7	12.7	12.7	12.7	2.0	2.4	-1.6	441.9	1565.8	-396.8
144	ok	0.07	9.51e-02	7.21e-06	12.7	12.7	12.7	12.7	1.9	2.9	-1.2	415.8	1659.6	-235.0
145	ok	0.07	9.51e-02	0.0	12.7	12.7	12.7	12.7	1.7	3.1	-0.5	405.4	1695.1	-93.4
146	ok	0.07	9.50e-02	0.0	12.7	12.7	12.7	12.7	1.7	3.2	0.2	405.9	1698.4	39.1
147	ok	0.07	9.50e-02	0.0	12.7	12.7	12.7	12.7	1.8	3.0	0.8	408.9	1678.3	176.4
148	ok	0.07	9.47e-02	1.63e-05	12.7	12.7	12.7	12.7	1.9	2.5	1.3	426.8	1610.4	330.4

149	ok	0.07	9.33e-02	1.18e-04	12.7	12.7	12.7	12.7	1.6	2.1	1.4	470.2	1457.8	506.5
150	ok	0.07	9.05e-02	1.68e-04	12.7	12.7	12.7	12.7	0.4	2.0	1.5	564.0	1176.2	685.4
151	ok	0.07	8.74e-02	2.98e-04	12.7	12.7	12.7	12.7	-1.2	2.0	1.6	717.7	773.5	820.0
152	ok	0.07	9.35e-02	5.38e-04	12.7	12.7	12.7	12.7	-2.7	1.4	1.2	926.0	297.7	1019.9
153	ok	0.07	7.77e-02	1.85e-03	12.7	12.7	12.7	12.7	-0.9	6.2	-1.3	103.6	255.9	-1207.5
154	ok	0.07	8.09e-02	5.64e-04	12.7	12.7	12.7	12.7	-2.4	12.2	0.3	51.8	667.2	-1039.5
155	ok	0.07	9.09e-02	1.84e-04	12.7	12.7	12.7	12.7	1.0	2.7	-1.9	-10.6	1145.3	-887.2
156	ok	0.07	9.91e-02	1.27e-04	12.7	12.7	12.7	12.7	2.1	3.8	-2.4	49.8	1539.4	-623.3
157	ok	0.07	0.1	1.26e-04	12.7	12.7	12.7	12.7	1.7	4.6	-2.3	129.3	1723.9	-401.5
158	ok	0.07	0.1	6.67e-05	12.7	12.7	12.7	12.7	1.2	4.9	-1.6	184.3	1799.4	-231.5
159	ok	0.07	0.1	6.62e-06	12.7	12.7	12.7	12.7	1.0	4.9	-0.6	221.0	1818.6	-89.7
160	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.0	4.9	0.3	225.9	1821.0	37.3
161	ok	0.07	0.1	3.84e-05	12.7	12.7	12.7	12.7	1.1	4.8	1.1	204.0	1808.7	170.3
162	ok	0.07	0.1	9.58e-05	12.7	12.7	12.7	12.7	1.5	4.5	1.9	153.3	1761.3	327.9
163	ok	0.07	0.1	1.05e-04	12.7	12.7	12.7	12.7	1.7	3.9	2.0	76.5	1628.7	531.0
164	ok	0.07	9.48e-02	1.75e-04	12.7	12.7	12.7	12.7	0.5	4.6	2.4	0.2	1311.4	805.0
165	ok	0.07	8.42e-02	4.90e-04	12.7	12.7	12.7	12.7	-1.7	9.3	2.2	16.9	809.1	1013.1
166	ok	0.07	7.82e-02	1.20e-03	12.7	12.7	12.7	12.7	-1.5	7.0	1.6	98.0	272.6	1210.1
167	ok	0.07	0.1	9.38e-03	12.7	12.7	12.7	12.7	-26.6	-52.8	-18.4	-1560.4	-922.1	-1003.6
168	ok	0.07	0.1	2.70e-03	12.7	12.7	12.7	12.7	-8.2	9.1	-1.1	-1179.7	487.8	-1138.8
169	ok	0.07	9.60e-02	1.40e-03	12.7	12.7	12.7	12.7	-9.1	13.4	2.0	-1038.7	1465.6	-815.2
170	ok	0.07	0.1	2.55e-04	12.7	12.7	12.7	12.7	0.7	9.7	-4.6	-460.9	1769.8	-483.2
171	ok	0.07	0.1	1.42e-04	12.7	12.7	12.7	12.7	0.6	8.2	-2.9	-174.7	1888.4	-299.2
172	ok	0.07	0.1	9.18e-05	12.7	12.7	12.7	12.7	0.2	7.1	-1.5	-16.3	1921.4	-169.5
173	ok	0.07	0.1	4.10e-05	12.7	12.7	12.7	12.7	0.1	6.7	-0.6	64.4	1926.4	-64.9
174	ok	0.07	0.1	2.42e-05	12.7	12.7	12.7	12.7	0.1	6.7	0.3	76.3	1926.0	26.5
175	ok	0.07	0.1	6.98e-05	12.7	12.7	12.7	12.7	0.2	6.9	1.1	27.5	1925.2	122.7
176	ok	0.07	0.1	1.18e-04	12.7	12.7	12.7	12.7	0.5	7.7	2.4	-100.8	1909.9	238.7
177	ok	0.07	0.1	2.18e-04	12.7	12.7	12.7	12.7	0.7	8.6	3.8	-340.1	1836.4	393.1
178	ok	0.07	9.84e-02	6.29e-04	12.7	12.7	12.7	12.7	-3.4	8.4	-2.3	-845.3	1607.1	623.4
179	ok	0.07	7.73e-02	7.64e-04	12.7	12.7	12.7	12.7	5.9	2.8	1.2	407.3	1271.5	228.3
180	ok	0.07	0.2	2.36e-02	12.7	12.7	12.7	12.7	44.3	-76.7	-44.8	-3461.7	-2868.3	-1299.3
181	ok	0.07	0.3	2.14e-02	12.7	12.7	12.7	12.7	-83.3	-65.2	-67.2	-4194.6	-732.1	-2338.5
182	ok	0.07	0.1	1.27e-02	12.7	12.7	12.7	12.7	-55.1	2.0	-50.1	-2272.3	1441.3	-950.5
183	ok	0.07	0.1	2.03e-03	12.7	12.7	12.7	12.7	-10.0	17.1	-10.3	-814.8	1900.1	-219.7
184	ok	0.07	0.1	3.10e-04	12.7	12.7	12.7	12.7	-0.4	10.7	-1.5	-341.9	1976.9	-102.2
185	ok	0.07	0.1	1.06e-04	12.7	12.7	12.7	12.7	-0.5	8.8	-0.7	-126.3	1991.9	-56.8
186	ok	0.07	0.1	8.14e-05	12.7	12.7	12.7	12.7	-0.5	8.0	-0.2	-23.0	1986.9	-21.9
187	ok	0.07	0.1	7.77e-05	12.7	12.7	12.7	12.7	-0.5	7.9	0.1	-5.4	1985.6	9.0
188	ok	0.07	0.1	8.95e-05	12.7	12.7	12.7	12.7	-0.5	8.5	0.5	-71.8	1990.1	40.9
189	ok	0.07	0.1	2.54e-04	12.7	12.7	12.7	12.7	-0.5	10.0	1.2	-235.7	1987.8	79.7
190	ok	0.07	0.1	1.60e-03	12.7	12.7	12.7	12.7	-8.3	15.2	7.7	-610.4	1940.3	173.5
191	ok	0.07	0.1	9.94e-03	12.7	12.7	12.7	12.7	-47.0	5.8	36.9	-1777.1	1618.0	735.7
192	ok	0.07	0.2	1.33e-02	12.7	12.7	12.7	12.7	-57.0	-53.7	32.8	-3319.8	450.1	1438.1
193	ok	0.07	0.2	2.34e-02	12.7	12.7	12.7	12.7	35.0	-80.1	50.1	-3517.8	-2944.0	1361.7
194	ok	0.07	0.2	1.05e-02	12.7	12.7	12.7	12.7	113.0	13.8	14.9	-2656.4	1858.8	-462.9
195	ok	0.07	0.1	1.59e-03	12.7	12.7	12.7	12.7	9.4	59.0	-17.3	-1168.3	2242.6	-258.9
196	ok	0.07	0.1	5.06e-04	12.7	12.7	12.7	12.7	-1.3	15.0	-4.6	-725.7	1908.1	-30.8
197	ok	0.07	0.1	1.35e-04	12.7	12.7	12.7	12.7	-0.6	11.5	-2.77e-03	-341.5	1985.5	-7.2
198	ok	0.07	0.1	1.17e-04	12.7	12.7	12.7	12.7	-0.6	9.1	-0.2	-127.3	1997.3	-6.1
199	ok	0.07	0.1	9.41e-05	12.7	12.7	12.7	12.7	-0.6	8.1	-9.95e-02	-24.9	1991.2	-2.9
200	ok	0.07	0.1	8.97e-05	12.7	12.7	12.7	12.7	-0.6	8.0	5.57e-02	-7.9	1989.2	1.2
201	ok	0.07	0.1	1.05e-04	12.7	12.7	12.7	12.7	-0.6	8.7	0.1	-72.8	1994.9	4.6
202	ok	0.07	0.1	1.22e-04	12.7	12.7	12.7	12.7	-0.6	10.6	5.36e-02	-234.4	1994.5	6.1
203	ok	0.07	0.1	3.00e-04	12.7	12.7	12.7	12.7	-1.2	13.9	3.5	-533.5	1951.2	22.8
204	ok	0.07	0.1	1.20e-03	12.7	12.7	12.7	12.7	6.2	46.8	15.8	-973.5	2225.4	202.4
205	ok	0.07	0.2	6.01e-03	12.7	12.7	12.7	12.7	88.1	52.5	-14.6	-1350.6	2128.2	934.0
206	ok	0.07	0.6	3.41e-02	12.7	12.7	12.7	12.7	-21.3	190.1	-83.4	-7467.8	-5948.3	1794.4
207	ok	0.07	0.2	2.29e-02	12.7	12.7	12.7	12.7	59.9	-71.3	45.7	-2605.0	-2249.6	1465.4
208	ok	0.07	0.3	2.14e-02	12.7	12.7	12.7	12.7	-65.3	-63.0	77.7	-3547.2	-1028.6	2271.2
209	ok	0.07	0.1	1.00e-02	12.7	12.7	12.7	12.7	-43.1	6.4	41.3	-1965.7	1473.1	938.9
210	ok	0.07	0.1	1.41e-03	12.7	12.7	12.7	12.7	-8.0	16.8	6.0	-738.1	1886.7	238.9
211	ok	0.07	0.1	2.31e-04	12.7	12.7	12.7	12.7	-0.6	10.9	1.2	-316.6	1968.2	128.5
212	ok	0.07	0.1	1.04e-04	12.7	12.7	12.7	12.7	-0.6	8.9	0.6	-113.7	1987.1	69.2
213	ok	0.07	0.1	8.41e-05	12.7	12.7	12.7	12.7	-0.5	8.1	0.2	-15.6	1983.8	26.2
214	ok	0.07	0.1	8.12e-05	12.7	12.7	12.7	12.7	-0.5	7.9	-0.1	6.0	1980.2	-11.0
215	ok	0.07	0.1	9.15e-05	12.7	12.7	12.7	12.7	-0.6	8.6	-0.4	-61.7	1986.1	-49.8
216	ok	0.07	0.1	2.04e-04	12.7	12.7	12.7	12.7	-0.6	10.2	-1.0	-216.0	1980.8	-99.9
217	ok	0.07	0.1	1.20e-03	12.7	12.7	12.7	12.7	-6.9	15.2	-4.9	-553.3	1931.9	-193.0
218	ok	0.07	0.1	8.66e-03	12.7	12.7	12.7	12.7	-41.8	10.8	-32.7	-1574.6	1635.7	-750.9
219	ok	0.07	0.2	1.40e-02	12.7	12.7	12.7	12.7	-37.3	45.1	10.0	-2699.4	1759.2	-508.2
220	ok	0.07	0.2	2.20e-02	12.7	12.7	12.7	12.7	49.9	-74.3	-51.3	-2660.3	-2317.9	-1547.4
221	ok	0.07	0.1	8.03e-03	12.7	12.7	12.7	12.7	-23.4	-42.7	17.8	-1278.3	-769.2	1065.1
222	ok	0.07	8.86e-02	3.76e-03	12.7	12.7	12.7	12.7	-5.7	7.7	1.0	-920.5	567.7	1100.3
223	ok	0.07	9.90e-02	9.27e-04	12.7	12.7	12.7	12.7	-5.6	16.1	3.3	-782.1	1473.9	838.8
224	ok	0.07	0.1	2.23e-04	12.7	12.7	12.7	12.7	1.0	9.9	4.9	-354.2	1744.1	489.2

225	ok	0.07	0.1	1.32e-04	12.7	12.7	12.7	12.7	0.4	8.4	2.8	-123.6	1872.3	302.5
226	ok	0.07	0.1	9.20e-05	12.7	12.7	12.7	12.7	0.2	7.3	1.5	15.3	1912.2	168.4
227	ok	0.07	0.1	3.64e-05	12.7	12.7	12.7	12.7	7.33e-02	6.9	0.6	79.6	1920.6	64.8
228	ok	0.07	0.1	2.94e-05	12.7	12.7	12.7	12.7	6.74e-02	6.8	-0.3	89.8	1920.7	-26.4
229	ok	0.07	0.1	7.03e-05	12.7	12.7	12.7	12.7	0.2	7.1	-1.1	48.3	1917.6	-122.8
230	ok	0.07	0.1	1.15e-04	12.7	12.7	12.7	12.7	0.3	8.0	-2.4	-61.2	1896.8	-240.9
231	ok	0.07	0.1	1.98e-04	12.7	12.7	12.7	12.7	0.5	9.0	-3.9	-259.1	1814.6	-397.2
232	ok	0.07	0.1	5.50e-04	12.7	12.7	12.7	12.7	-2.2	9.9	-0.4	-669.1	1609.9	-651.5
233	ok	0.07	9.62e-02	1.86e-03	12.7	12.7	12.7	12.7	3.5	50.4	-1.7	-623.2	1304.5	-866.2
234	ok	0.07	0.1	8.80e-03	12.7	12.7	12.7	12.7	-2.9	-56.1	-11.4	-1117.1	-740.7	-1002.4
235	ok	0.07	7.75e-02	1.69e-03	12.7	12.7	12.7	12.7	-1.9	3.4	-0.5	274.1	265.5	1122.4
236	ok	0.07	8.05e-02	5.23e-04	12.7	12.7	12.7	12.7	-3.1	10.2	-2.3	194.7	711.1	955.3
237	ok	0.07	9.02e-02	1.63e-04	12.7	12.7	12.7	12.7	0.9	3.1	1.6	110.0	1148.1	837.6
238	ok	0.07	9.78e-02	1.01e-04	12.7	12.7	12.7	12.7	2.5	3.6	2.9	117.1	1535.8	588.7
239	ok	0.07	0.1	1.15e-04	12.7	12.7	12.7	12.7	1.7	4.7	2.6	165.6	1719.1	379.1
240	ok	0.07	0.1	5.07e-05	12.7	12.7	12.7	12.7	1.2	5.1	1.6	204.9	1794.2	216.9
241	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.0	5.0	0.6	229.6	1816.6	83.9
242	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	0.9	5.0	-0.3	232.6	1819.4	-34.7
243	ok	0.07	0.1	3.32e-05	12.7	12.7	12.7	12.7	1.1	5.0	-1.2	218.6	1805.0	-159.0
244	ok	0.07	0.1	8.30e-05	12.7	12.7	12.7	12.7	1.5	4.7	-2.0	186.3	1754.2	-306.4
245	ok	0.07	9.94e-02	1.10e-04	12.7	12.7	12.7	12.7	2.0	3.9	-2.3	139.3	1620.6	-495.3
246	ok	0.07	9.37e-02	1.65e-04	12.7	12.7	12.7	12.7	1.3	4.1	-2.5	103.2	1316.9	-749.4
247	ok	0.07	8.35e-02	3.42e-04	12.7	12.7	12.7	12.7	-1.4	7.7	-0.9	151.4	841.9	-933.6
248	ok	0.07	7.79e-02	1.08e-03	12.7	12.7	12.7	12.7	-2.8	4.8	6.04e-02	267.2	282.7	-1122.6
249	ok	0.07	9.10e-02	6.23e-04	12.7	12.7	12.7	12.7	-3.3	0.9	3.86e-02	1008.1	313.9	908.6
250	ok	0.07	8.46e-02	3.50e-04	12.7	12.7	12.7	12.7	-2.2	1.4	0.2	859.1	648.6	757.1
251	ok	0.07	8.65e-02	1.71e-04	12.7	12.7	12.7	12.7	0.5	1.0	0.9	668.7	1053.8	661.8
252	ok	0.07	9.04e-02	1.36e-04	12.7	12.7	12.7	12.7	2.0	1.5	1.5	532.0	1378.6	511.1
253	ok	0.07	9.33e-02	6.55e-05	12.7	12.7	12.7	12.7	2.1	2.3	1.6	452.6	1571.0	350.3
254	ok	0.07	9.49e-02	4.05e-05	12.7	12.7	12.7	12.7	1.9	2.9	1.2	410.1	1665.9	207.0
255	ok	0.07	9.54e-02	0.0	12.7	12.7	12.7	12.7	1.8	3.2	0.5	390.4	1703.3	82.3
256	ok	0.07	9.55e-02	0.0	12.7	12.7	12.7	12.7	1.7	3.2	-0.2	389.2	1707.1	-34.0
257	ok	0.07	9.51e-02	1.03e-05	12.7	12.7	12.7	12.7	1.8	3.0	-0.9	398.7	1685.2	-155.0
258	ok	0.07	9.40e-02	6.89e-05	12.7	12.7	12.7	12.7	2.0	2.6	-1.4	430.1	1615.5	-291.4
259	ok	0.07	9.15e-02	1.09e-04	12.7	12.7	12.7	12.7	1.9	1.9	-1.5	492.7	1464.0	-448.3
260	ok	0.07	8.78e-02	1.55e-04	12.7	12.7	12.7	12.7	0.8	1.5	-1.2	606.9	1189.8	-608.1
261	ok	0.07	8.45e-02	2.91e-04	12.7	12.7	12.7	12.7	-1.2	1.5	-0.8	779.0	796.3	-728.5
262	ok	0.07	9.08e-02	5.55e-04	12.7	12.7	12.7	12.7	-3.3	1.0	-0.6	1007.6	312.9	-906.8
263	ok	0.07	9.40e-02	6.37e-04	12.7	12.7	12.7	12.7	-4.1	-5.63e-02	-0.1	1415.3	330.7	608.2
264	ok	0.07	8.50e-02	3.64e-04	12.7	12.7	12.7	12.7	-2.4	1.15e-02	5.66e-02	1245.6	643.7	497.8
265	ok	0.07	8.05e-02	1.78e-04	12.7	12.7	12.7	12.7	3.43e-02	0.1	0.4	1010.6	1004.3	437.6
266	ok	0.07	8.19e-02	1.28e-04	12.7	12.7	12.7	12.7	1.5	0.5	0.7	814.3	1280.8	351.6
267	ok	0.07	8.55e-02	6.57e-05	12.7	12.7	12.7	12.7	2.2	1.0	0.8	669.6	1460.7	251.2
268	ok	0.07	8.83e-02	0.0	12.7	12.7	12.7	12.7	2.3	1.5	0.7	576.1	1560.9	152.6
269	ok	0.07	8.97e-02	0.0	12.7	12.7	12.7	12.7	2.3	1.8	0.3	527.9	1605.1	61.4
270	ok	0.07	8.99e-02	0.0	12.7	12.7	12.7	12.7	2.3	1.9	-0.1	521.2	1610.5	-25.7
271	ok	0.07	8.90e-02	0.0	12.7	12.7	12.7	12.7	2.2	1.7	-0.5	551.0	1582.5	-115.5
272	ok	0.07	8.66e-02	4.40e-05	12.7	12.7	12.7	12.7	2.1	1.3	-0.7	625.6	1505.5	-211.8
273	ok	0.07	8.31e-02	1.06e-04	12.7	12.7	12.7	12.7	1.6	0.8	-0.7	749.6	1357.9	-313.1
274	ok	0.07	8.03e-02	1.55e-04	12.7	12.7	12.7	12.7	0.4	0.5	-0.5	926.8	1119.0	-406.7
275	ok	0.07	8.24e-02	2.89e-04	12.7	12.7	12.7	12.7	-1.4	0.2	-0.3	1148.7	784.5	-478.1
276	ok	0.07	9.39e-02	5.99e-04	12.7	12.7	12.7	12.7	-3.9	1.03e-02	-7.56e-03	1416.1	329.8	-604.4
277	ok	0.07	9.27e-02	6.43e-04	12.7	12.7	12.7	12.7	-4.2	-0.1	-0.2	1608.8	336.6	270.8
278	ok	0.07	8.27e-02	3.93e-04	12.7	12.7	12.7	12.7	-2.6	-0.3	-0.1	1427.1	638.5	221.5
279	ok	0.07	7.22e-02	1.91e-04	12.7	12.7	12.7	12.7	-0.3	-0.2	-3.75e-02	1177.2	977.2	194.7
280	ok	0.07	7.26e-02	1.15e-04	12.7	12.7	12.7	12.7	1.3	1.31e-02	0.1	959.6	1229.3	160.0
281	ok	0.07	7.91e-02	6.10e-05	12.7	12.7	12.7	12.7	2.1	0.4	0.2	789.4	1397.9	117.7
282	ok	0.07	8.37e-02	9.52e-06	12.7	12.7	12.7	12.7	2.4	0.8	0.2	673.4	1496.7	73.4
283	ok	0.07	8.60e-02	0.0	12.7	12.7	12.7	12.7	2.5	1.0	8.90e-02	611.4	1542.9	29.9
284	ok	0.07	8.64e-02	0.0	12.7	12.7	12.7	12.7	2.5	1.1	-5.25e-02	601.1	1549.3	-12.8
285	ok	0.07	8.48e-02	1.05e-05	12.7	12.7	12.7	12.7	2.4	1.0	-0.1	642.0	1518.6	-56.0
286	ok	0.07	8.10e-02	4.38e-05	12.7	12.7	12.7	12.7	2.1	0.7	-0.2	736.2	1441.0	-100.3
287	ok	0.07	7.49e-02	9.37e-05	12.7	12.7	12.7	12.7	1.4	0.3	-0.1	885.3	1300.6	-144.0
288	ok	0.07	7.05e-02	1.57e-04	12.7	12.7	12.7	12.7	0.2	3.54e-02	-2.75e-02	1085.7	1082.0	-182.3
289	ok	0.07	7.78e-02	2.88e-04	12.7	12.7	12.7	12.7	-1.6	-0.1	6.58e-02	1324.7	774.5	-211.8
290	ok	0.07	9.27e-02	6.14e-04	12.7	12.7	12.7	12.7	-4.0	-7.14e-02	0.2	1609.1	335.4	-268.3
291	ok	0.07	9.08e-02	6.19e-04	12.7	12.7	12.7	12.7	-4.0	-0.1	-0.2	1623.6	334.2	-81.7
292	ok	0.07	8.07e-02	3.89e-04	12.7	12.7	12.7	12.7	-2.5	-0.2	-0.4	1442.4	633.5	-65.1
293	ok	0.07	6.72e-02	2.15e-04	12.7	12.7	12.7	12.7	-0.3	-0.2	-0.5	1193.6	968.9	-54.6
294	ok	0.07	6.82e-02	1.41e-04	12.7	12.7	12.7	12.7	1.1	2.23e-02	-0.5	976.7	1217.5	-42.7
295	ok	0.07	7.71e-02	9.24e-05	12.7	12.7	12.7	12.7	2.0	0.3	-0.4	806.6	1383.4	-28.4
296	ok	0.07	8.25e-02	4.37e-05	12.7	12.7	12.7	12.7	2.4	0.7	-0.2	690.5	1480.5	-15.7
297	ok	0.07	8.50e-02	8.36e-06	12.7	12.7	12.7	12.7	2.5	0.9	-0.1	628.4	1525.5	-6.1
298	ok	0.07	8.54e-02	4.08e-06	12.7	12.7	12.7	12.7	2.5	0.9	6.64e-02	618.0	1532.0	2.8
299	ok	0.07	8.37e-02	3.27e-05	12.7	12.7	12.7	12.7	2.3	0.8	0.2	659.3	1501.4	11.9
300	ok	0.07	7.94e-02	7.23e-05	12.7	12.7	12.7	12.7	2.0	0.6	0.3	753.5	1425.8	23.2

301	ok	0.07	7.19e-02	1.19e-04	12.7	12.7	12.7	12.7	1.3	0.3	0.4	902.6	1287.8	37.3
302	ok	0.07	6.35e-02	1.78e-04	12.7	12.7	12.7	12.7	0.1	5.58e-02	0.5	1102.4	1072.5	50.9
303	ok	0.07	7.50e-02	3.06e-04	12.7	12.7	12.7	12.7	-1.6	-7.99e-02	0.4	1340.4	768.7	60.9
304	ok	0.07	9.07e-02	5.94e-04	12.7	12.7	12.7	12.7	-3.9	-7.57e-02	0.2	1623.9	333.0	81.3
305	ok	0.07	8.92e-02	5.72e-04	12.7	12.7	12.7	12.7	-3.7	-2.53e-02	-0.3	1466.1	324.5	-414.8
306	ok	0.07	8.02e-02	3.66e-04	12.7	12.7	12.7	12.7	-2.2	0.1	-0.7	1298.1	629.5	-338.3
307	ok	0.07	7.36e-02	2.24e-04	12.7	12.7	12.7	12.7	-0.2	0.2	-0.9	1065.7	979.8	-294.9
308	ok	0.07	7.56e-02	1.61e-04	12.7	12.7	12.7	12.7	1.2	0.5	-0.9	870.3	1245.5	-232.8
309	ok	0.07	8.10e-02	1.14e-04	12.7	12.7	12.7	12.7	1.9	0.8	-0.9	724.9	1417.4	-161.5
310	ok	0.07	8.49e-02	6.37e-05	12.7	12.7	12.7	12.7	2.2	1.2	-0.6	629.8	1512.6	-95.2
311	ok	0.07	8.68e-02	8.76e-06	12.7	12.7	12.7	12.7	2.3	1.3	-0.3	580.3	1554.4	-37.7
312	ok	0.07	8.70e-02	1.55e-06	12.7	12.7	12.7	12.7	2.2	1.4	0.1	571.9	1560.4	16.3
313	ok	0.07	8.57e-02	4.07e-05	12.7	12.7	12.7	12.7	2.2	1.3	0.4	604.3	1532.8	71.4
314	ok	0.07	8.26e-02	9.02e-05	12.7	12.7	12.7	12.7	1.9	1.0	0.7	680.7	1459.7	134.7
315	ok	0.07	7.75e-02	1.38e-04	12.7	12.7	12.7	12.7	1.3	0.7	0.9	805.9	1319.4	205.3
316	ok	0.07	7.33e-02	1.96e-04	12.7	12.7	12.7	12.7	0.2	0.5	0.9	982.6	1091.0	273.0
317	ok	0.07	7.66e-02	3.16e-04	12.7	12.7	12.7	12.7	-1.4	0.3	0.8	1202.4	768.0	324.3
318	ok	0.07	8.92e-02	5.47e-04	12.7	12.7	12.7	12.7	-3.5	1.65e-02	0.4	1466.9	324.0	413.3
319	ok	0.07	8.51e-02	5.63e-04	12.7	12.7	12.7	12.7	-2.8	1.1	-0.7	1114.8	308.4	-710.7
320	ok	0.07	7.89e-02	3.69e-04	12.7	12.7	12.7	12.7	-1.9	1.7	-1.1	969.1	627.0	-594.4
321	ok	0.07	7.95e-02	2.28e-04	12.7	12.7	12.7	12.7	-9.88e-03	1.2	-1.4	779.2	1014.1	-515.3
322	ok	0.07	8.36e-02	1.66e-04	12.7	12.7	12.7	12.7	1.3	1.4	-1.5	639.7	1319.7	-391.4
323	ok	0.07	8.74e-02	1.25e-04	12.7	12.7	12.7	12.7	1.7	1.9	-1.4	554.9	1499.0	-262.1
324	ok	0.07	8.97e-02	6.62e-05	12.7	12.7	12.7	12.7	1.8	2.2	-1.0	506.3	1586.5	-151.5
325	ok	0.07	9.06e-02	1.69e-05	12.7	12.7	12.7	12.7	1.8	2.4	-0.5	482.4	1620.7	-59.6
326	ok	0.07	9.07e-02	0.0	12.7	12.7	12.7	12.7	1.8	2.4	0.2	478.1	1625.5	25.5
327	ok	0.07	9.01e-02	4.54e-05	12.7	12.7	12.7	12.7	1.8	2.3	0.7	493.3	1603.8	113.0
328	ok	0.07	8.84e-02	9.82e-05	12.7	12.7	12.7	12.7	1.7	2.0	1.2	530.8	1539.5	216.3
329	ok	0.07	8.51e-02	1.43e-04	12.7	12.7	12.7	12.7	1.3	1.7	1.3	599.5	1399.4	340.3
330	ok	0.07	8.08e-02	2.10e-04	12.7	12.7	12.7	12.7	0.2	1.7	1.5	717.0	1144.1	471.1
331	ok	0.07	7.83e-02	3.29e-04	12.7	12.7	12.7	12.7	-1.2	1.7	1.5	889.0	772.2	570.8
332	ok	0.07	8.52e-02	5.12e-04	12.7	12.7	12.7	12.7	-2.7	1.2	1.1	1115.1	308.1	711.3
333	ok	0.07	7.35e-02	1.53e-03	12.7	12.7	12.7	12.7	-1.0	5.7	-1.4	477.6	285.5	-929.7
334	ok	0.07	7.55e-02	5.04e-04	12.7	12.7	12.7	12.7	-1.9	10.2	-0.6	401.4	666.6	-804.0
335	ok	0.07	8.31e-02	2.32e-04	12.7	12.7	12.7	12.7	-0.1	3.1	-1.6	303.7	1088.7	-686.7
336	ok	0.07	9.06e-02	1.53e-04	12.7	12.7	12.7	12.7	1.5	3.2	-2.1	306.5	1450.0	-466.0
337	ok	0.07	9.42e-02	1.32e-04	12.7	12.7	12.7	12.7	1.4	3.7	-1.9	333.6	1616.0	-295.3
338	ok	0.07	9.54e-02	7.29e-05	12.7	12.7	12.7	12.7	1.2	3.8	-1.3	350.5	1686.6	-168.1
339	ok	0.07	9.56e-02	2.27e-05	12.7	12.7	12.7	12.7	1.2	3.8	-0.5	364.6	1706.5	-64.4
340	ok	0.07	9.56e-02	0.0	12.7	12.7	12.7	12.7	1.2	3.7	0.2	366.0	1708.9	26.9
341	ok	0.07	9.55e-02	6.04e-05	12.7	12.7	12.7	12.7	1.2	3.7	0.9	358.9	1695.7	123.2
342	ok	0.07	9.48e-02	1.05e-04	12.7	12.7	12.7	12.7	1.3	3.6	1.5	341.2	1649.7	240.1
343	ok	0.07	9.22e-02	1.33e-04	12.7	12.7	12.7	12.7	1.3	3.2	1.7	312.9	1528.8	394.8
344	ok	0.07	8.66e-02	2.20e-04	12.7	12.7	12.7	12.7	0.3	4.0	2.3	293.1	1251.3	610.0
345	ok	0.07	7.80e-02	4.37e-04	12.7	12.7	12.7	12.7	-1.5	8.0	2.4	351.9	806.3	779.9
346	ok	0.07	7.39e-02	1.03e-03	12.7	12.7	12.7	12.7	-1.4	6.4	1.5	473.7	297.8	933.4
347	ok	0.07	8.90e-02	7.71e-03	12.7	12.7	12.7	12.7	-22.0	-46.1	-12.2	-855.6	-726.7	-784.6
348	ok	0.07	7.34e-02	2.10e-03	12.7	12.7	12.7	12.7	-6.3	7.9	-1.4	-569.2	535.9	-929.5
349	ok	0.07	8.86e-02	1.11e-03	12.7	12.7	12.7	12.7	-7.3	11.4	1.2	-496.8	1367.1	-661.7
350	ok	0.07	9.67e-02	2.41e-04	12.7	12.7	12.7	12.7	0.4	8.0	-3.6	-84.2	1635.7	-392.0
351	ok	0.07	9.99e-02	1.49e-04	12.7	12.7	12.7	12.7	0.7	6.1	-2.0	115.6	1743.5	-244.1
352	ok	0.07	0.1	9.07e-05	12.7	12.7	12.7	12.7	0.5	5.6	-1.1	212.2	1782.9	-135.9
353	ok	0.07	0.1	4.10e-05	12.7	12.7	12.7	12.7	0.5	5.2	-0.4	257.2	1790.9	-52.4
354	ok	0.07	0.1	2.34e-05	12.7	12.7	12.7	12.7	0.5	5.2	0.2	264.2	1791.0	21.8
355	ok	0.07	0.1	7.52e-05	12.7	12.7	12.7	12.7	0.5	5.4	0.9	235.4	1787.4	99.8
356	ok	0.07	0.1	1.25e-04	12.7	12.7	12.7	12.7	0.6	5.8	1.7	161.2	1765.0	195.5
357	ok	0.07	9.84e-02	2.03e-04	12.7	12.7	12.7	12.7	1.6	5.9	2.7	17.6	1689.3	330.9
358	ok	0.07	9.08e-02	4.85e-04	12.7	12.7	12.7	12.7	-2.4	7.4	-1.3	-355.9	1490.8	508.8
359	ok	0.07	8.67e-02	1.40e-03	12.7	12.7	12.7	12.7	2.2	44.7	5.6	-316.7	1111.0	832.3
360	ok	0.07	8.37e-02	7.56e-03	12.7	12.7	12.7	12.7	-4.1	-48.8	8.0	-695.9	-661.3	753.0
361	ok	0.07	0.2	2.07e-02	12.7	12.7	12.7	12.7	29.0	-68.4	-35.7	-2474.6	-2346.0	-1150.7
362	ok	0.07	0.2	1.64e-02	12.7	12.7	12.7	12.7	-67.0	-49.1	-49.9	-2941.7	-374.9	-1881.9
363	ok	0.07	9.38e-02	9.87e-03	12.7	12.7	12.7	12.7	-43.3	2.5	-38.9	-1456.1	1363.0	-794.3
364	ok	0.07	0.1	1.57e-03	12.7	12.7	12.7	12.7	-7.8	13.7	-7.9	-356.6	1749.5	-217.5
365	ok	0.07	0.1	2.12e-04	12.7	12.7	12.7	12.7	-0.2	8.6	-1.0	-19.1	1827.1	-113.2
366	ok	0.07	0.1	9.60e-05	12.7	12.7	12.7	12.7	-6.07e-02	7.2	-0.7	136.9	1848.6	-66.7
367	ok	0.07	0.1	5.31e-05	12.7	12.7	12.7	12.7	7.55e-02	6.3	-0.2	200.7	1847.4	-26.0
368	ok	0.07	0.1	4.70e-05	12.7	12.7	12.7	12.7	8.42e-02	6.2	6.47e-02	210.8	1846.0	11.1
369	ok	0.07	0.1	7.95e-05	12.7	12.7	12.7	12.7	-2.69e-02	6.8	0.5	170.7	1848.1	49.8
370	ok	0.07	0.1	1.79e-04	12.7	12.7	12.7	12.7	-0.8	8.6	1.7	60.5	1840.6	96.0
371	ok	0.07	0.1	1.22e-03	12.7	12.7	12.7	12.7	-6.5	12.2	5.8	-208.9	1788.1	177.0
372	ok	0.07	9.58e-02	7.71e-03	12.7	12.7	12.7	12.7	-36.9	5.5	28.4	-1076.9	1515.6	622.1
373	ok	0.07	0.1	1.01e-02	12.7	12.7	12.7	12.7	-45.5	-42.2	21.7	-2255.7	556.9	1146.3
374	ok	0.07	0.2	2.06e-02	12.7	12.7	12.7	12.7	21.0	-71.3	40.2	-2525.9	-2409.2	1195.8
375	ok	0.07	0.1	8.04e-03	12.7	12.7	12.7	12.7	86.2	10.7	15.5	-1838.0	1638.7	-434.2
376	ok	0.07	0.1	1.21e-03	12.7	12.7	12.7	12.7	7.9	46.0	-12.3	-585.3	1980.7	-256.6

377	ok	0.07	9.98e-02	4.10e-04	12.7	12.7	12.7	12.7	-1.1	12.0	-3.2	-289.7	1760.7	-80.8
378	ok	0.07	0.1	1.45e-04	12.7	12.7	12.7	12.7	-0.4	9.1	0.2	-19.4	1840.5	-49.1
379	ok	0.07	0.1	9.65e-05	12.7	12.7	12.7	12.7	-0.2	7.0	-0.2	128.8	1860.8	-33.9
380	ok	0.07	0.1	5.72e-05	12.7	12.7	12.7	12.7	1.23e-03	6.4	3.32e-03	194.1	1859.6	-13.4
381	ok	0.07	0.1	5.37e-05	12.7	12.7	12.7	12.7	2.01e-02	6.3	-1.87e-03	204.2	1858.1	6.2
382	ok	0.07	0.1	7.98e-05	12.7	12.7	12.7	12.7	-0.2	6.7	0.1	163.4	1860.3	26.5
383	ok	0.07	0.1	1.24e-04	12.7	12.7	12.7	12.7	-0.1	7.6	0.8	63.4	1850.0	47.5
384	ok	0.07	0.1	2.58e-04	12.7	12.7	12.7	12.7	-1.0	11.0	2.4	-152.4	1801.8	69.8
385	ok	0.07	0.1	9.43e-04	12.7	12.7	12.7	12.7	5.5	36.1	11.4	-453.9	1980.3	210.9
386	ok	0.07	0.1	4.43e-03	12.7	12.7	12.7	12.7	66.2	43.4	-15.1	-789.8	1854.5	834.4
387	ok	0.07	0.2	1.85e-02	12.7	12.7	12.7	12.7	39.9	-56.4	34.5	-1776.3	-1731.6	1045.1
388	ok	0.07	0.2	1.64e-02	12.7	12.7	12.7	12.7	-52.4	-46.4	59.2	-2429.2	-606.7	1673.1
389	ok	0.07	8.96e-02	7.70e-03	12.7	12.7	12.7	12.7	-33.3	5.2	31.7	-1217.9	1395.5	632.1
390	ok	0.07	9.92e-02	1.12e-03	12.7	12.7	12.7	12.7	-6.3	13.4	4.9	-300.6	1752.8	110.2
391	ok	0.07	0.1	1.69e-04	12.7	12.7	12.7	12.7	-0.1	8.4	1.1	5.9	1841.0	42.3
392	ok	0.07	0.1	1.02e-04	12.7	12.7	12.7	12.7	-1.52e-02	7.3	0.7	139.9	1865.6	14.8
393	ok	0.07	0.1	6.30e-05	12.7	12.7	12.7	12.7	0.1	6.4	0.2	200.1	1866.6	3.9
394	ok	0.07	0.1	5.36e-05	12.7	12.7	12.7	12.7	0.1	6.3	-0.2	209.4	1865.1	-1.5
395	ok	0.07	0.1	8.33e-05	12.7	12.7	12.7	12.7	1.54e-02	6.9	-0.6	172.0	1866.1	-8.2
396	ok	0.07	0.1	1.40e-04	12.7	12.7	12.7	12.7	-5.06e-02	7.9	-1.0	72.5	1854.4	-27.5
397	ok	0.07	0.1	9.40e-04	12.7	12.7	12.7	12.7	-5.3	12.1	-4.1	-168.8	1796.5	-80.3
398	ok	0.07	9.51e-02	6.65e-03	12.7	12.7	12.7	12.7	-32.4	8.8	-25.0	-920.2	1535.0	-491.8
399	ok	0.07	0.1	1.07e-02	12.7	12.7	12.7	12.7	-29.2	35.1	7.2	-1771.8	1569.3	-323.6
400	ok	0.07	0.2	1.77e-02	12.7	12.7	12.7	12.7	32.7	-58.6	-38.7	-1813.6	-1776.9	-1105.0
401	ok	0.07	7.19e-02	6.30e-03	12.7	12.7	12.7	12.7	-19.9	-33.2	13.7	-608.8	-521.4	696.0
402	ok	0.07	7.21e-02	2.79e-03	12.7	12.7	12.7	12.7	-5.2	6.6	1.6	-358.3	609.2	736.3
403	ok	0.07	8.75e-02	8.02e-04	12.7	12.7	12.7	12.7	-4.8	12.9	3.1	-300.5	1396.9	535.3
404	ok	0.07	9.56e-02	2.64e-04	12.7	12.7	12.7	12.7	0.8	8.0	4.2	-9.5	1658.5	274.0
405	ok	0.07	0.1	1.52e-04	12.7	12.7	12.7	12.7	0.9	6.5	2.3	143.6	1784.2	150.7
406	ok	0.07	0.1	9.16e-05	12.7	12.7	12.7	12.7	0.7	5.9	1.3	219.2	1834.5	75.0
407	ok	0.07	0.1	3.54e-05	12.7	12.7	12.7	12.7	0.7	5.6	0.5	254.6	1848.3	26.9
408	ok	0.07	0.1	2.49e-05	12.7	12.7	12.7	12.7	0.7	5.5	-0.2	259.8	1848.9	-10.6
409	ok	0.07	0.1	7.01e-05	12.7	12.7	12.7	12.7	0.7	5.8	-1.0	237.4	1841.7	-51.6
410	ok	0.07	0.1	1.30e-04	12.7	12.7	12.7	12.7	0.8	6.2	-2.0	179.1	1810.2	-113.6
411	ok	0.07	9.82e-02	2.38e-04	12.7	12.7	12.7	12.7	1.7	6.4	-3.3	66.8	1720.8	-217.9
412	ok	0.07	9.02e-02	4.51e-04	12.7	12.7	12.7	12.7	-1.9	8.1	-0.8	-228.5	1524.3	-393.2
413	ok	0.07	8.19e-02	1.45e-03	12.7	12.7	12.7	12.7	2.4	39.6	-2.6	-147.4	1213.5	-566.0
414	ok	0.07	6.50e-02	6.79e-03	12.7	12.7	12.7	12.7	-3.9	-43.1	-9.0	-484.1	-488.0	-654.0
415	ok	0.07	6.29e-02	1.48e-03	12.7	12.7	12.7	12.7	-2.5	3.1	0.4	615.4	303.4	651.4
416	ok	0.07	6.64e-02	4.93e-04	12.7	12.7	12.7	12.7	-2.9	8.3	-0.7	508.1	727.3	560.3
417	ok	0.07	7.73e-02	2.27e-04	12.7	12.7	12.7	12.7	0.5	2.8	1.9	379.6	1155.5	479.5
418	ok	0.07	8.92e-02	1.18e-04	12.7	12.7	12.7	12.7	2.2	3.2	2.6	334.2	1519.1	309.4
419	ok	0.07	9.64e-02	1.35e-04	12.7	12.7	12.7	12.7	1.8	4.1	2.2	332.7	1700.5	179.6
420	ok	0.07	9.99e-02	6.43e-05	12.7	12.7	12.7	12.7	1.5	4.4	1.3	336.3	1780.7	93.6
421	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.4	4.4	0.6	338.1	1809.2	35.5
422	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.4	4.4	-0.2	340.4	1811.3	-13.7
423	ok	0.07	0.1	4.07e-05	12.7	12.7	12.7	12.7	1.5	4.3	-1.1	336.0	1794.1	-67.6
424	ok	0.07	9.80e-02	1.09e-04	12.7	12.7	12.7	12.7	1.7	4.1	-1.8	331.0	1739.1	-140.1
425	ok	0.07	9.23e-02	9.51e-05	12.7	12.7	12.7	12.7	1.8	3.3	-2.4	329.7	1599.6	-252.9
426	ok	0.07	8.22e-02	2.14e-04	12.7	12.7	12.7	12.7	0.9	3.6	-2.5	352.0	1311.8	-419.1
427	ok	0.07	6.94e-02	3.99e-04	12.7	12.7	12.7	12.7	-1.6	6.5	-1.5	446.7	864.0	-545.9
428	ok	0.07	6.31e-02	1.00e-03	12.7	12.7	12.7	12.7	-3.1	4.1	-0.6	609.0	315.0	-654.3
429	ok	0.07	7.24e-02	7.17e-04	12.7	12.7	12.7	12.7	-3.9	0.7	0.5	1137.5	339.5	391.6
430	ok	0.07	6.64e-02	4.33e-04	12.7	12.7	12.7	12.7	-2.4	1.3	0.7	973.2	687.1	330.9
431	ok	0.07	7.03e-02	2.48e-04	12.7	12.7	12.7	12.7	0.4	1.1	1.2	760.6	1101.2	280.7
432	ok	0.07	8.23e-02	1.00e-04	12.7	12.7	12.7	12.7	2.0	1.6	1.4	601.8	1428.7	201.6
433	ok	0.07	9.16e-02	4.72e-05	12.7	12.7	12.7	12.7	2.3	2.5	1.3	501.8	1627.4	124.4
434	ok	0.07	9.67e-02	0.0	12.7	12.7	12.7	12.7	2.2	3.0	0.9	445.5	1727.5	67.0
435	ok	0.07	9.89e-02	0.0	12.7	12.7	12.7	12.7	2.1	3.4	0.4	416.7	1770.4	25.2
436	ok	0.07	9.92e-02	0.0	12.7	12.7	12.7	12.7	2.1	3.4	-0.2	411.5	1776.4	-10.6
437	ok	0.07	9.78e-02	0.0	12.7	12.7	12.7	12.7	2.1	3.2	-0.7	429.0	1748.6	-48.6
438	ok	0.07	9.39e-02	3.20e-05	12.7	12.7	12.7	12.7	2.2	2.7	-1.1	471.6	1673.8	-99.0
439	ok	0.07	8.61e-02	8.19e-05	12.7	12.7	12.7	12.7	1.9	2.1	-1.4	552.6	1514.5	-170.2
440	ok	0.07	7.45e-02	2.26e-04	12.7	12.7	12.7	12.7	0.7	1.7	-1.3	688.5	1235.6	-252.8
441	ok	0.07	6.56e-02	3.71e-04	12.7	12.7	12.7	12.7	-1.4	1.5	-1.1	882.0	838.1	-316.1
442	ok	0.07	7.23e-02	6.46e-04	12.7	12.7	12.7	12.7	-3.8	0.9	-0.8	1134.9	337.1	-394.2
443	ok	0.07	7.49e-02	7.11e-04	12.7	12.7	12.7	12.7	-4.6	6.77e-02	0.2	1337.1	352.0	68.9
444	ok	0.07	6.49e-02	4.53e-04	12.7	12.7	12.7	12.7	-2.5	0.2	0.3	1157.3	689.8	54.6
445	ok	0.07	6.13e-02	2.44e-04	12.7	12.7	12.7	12.7	0.3	0.4	0.5	914.2	1089.6	44.5
446	ok	0.07	7.79e-02	1.30e-04	12.7	12.7	12.7	12.7	1.8	1.0	0.5	720.7	1396.4	32.1
447	ok	0.07	8.90e-02	4.18e-05	12.7	12.7	12.7	12.7	2.4	1.8	0.4	583.7	1594.4	19.4
448	ok	0.07	9.51e-02	0.0	12.7	12.7	12.7	12.7	2.5	2.5	0.3	498.5	1703.7	9.7
449	ok	0.07	9.78e-02	0.0	12.7	12.7	12.7	12.7	2.4	2.9	0.2	455.3	1752.3	3.2
450	ok	0.07	9.82e-02	0.0	12.7	12.7	12.7	12.7	2.4	3.0	-7.04e-02	447.6	1759.4	-2.1
451	ok	0.07	9.65e-02	0.0	12.7	12.7	12.7	12.7	2.4	2.7	-0.3	474.5	1727.6	-7.4
452	ok	0.07	9.17e-02	0.0	12.7	12.7	12.7	12.7	2.4	2.1	-0.4	540.6	1643.4	-15.2

453	ok	0.07	8.26e-02	6.28e-05	12.7	12.7	12.7	12.7	1.8	1.5	-0.6	655.7	1480.1	-26.3
454	ok	0.07	6.78e-02	2.17e-04	12.7	12.7	12.7	12.7	0.5	0.9	-0.6	827.9	1213.2	-39.2
455	ok	0.07	5.94e-02	3.77e-04	12.7	12.7	12.7	12.7	-1.6	0.7	-0.3	1054.3	837.8	-50.7
456	ok	0.07	7.47e-02	6.64e-04	12.7	12.7	12.7	12.7	-4.3	0.2	-9.89e-03	1333.6	348.0	-71.2
457	ok	0.07	7.49e-02	7.31e-04	12.7	12.7	12.7	12.7	-4.6	0.2	-0.4	1259.8	341.9	-289.7
458	ok	0.07	6.69e-02	4.86e-04	12.7	12.7	12.7	12.7	-2.7	1.0	-0.1	1089.7	693.2	-237.4
459	ok	0.07	6.77e-02	2.43e-04	12.7	12.7	12.7	12.7	0.2	1.0	-0.4	858.2	1095.4	-205.8
460	ok	0.07	8.04e-02	1.08e-04	12.7	12.7	12.7	12.7	2.0	1.5	-0.6	675.4	1411.9	-153.8
461	ok	0.07	9.05e-02	3.28e-05	12.7	12.7	12.7	12.7	2.5	2.3	-0.6	550.3	1611.7	-100.7
462	ok	0.07	9.61e-02	0.0	12.7	12.7	12.7	12.7	2.5	2.9	-0.4	474.2	1719.1	-57.3
463	ok	0.07	9.86e-02	0.0	12.7	12.7	12.7	12.7	2.4	3.2	-0.2	436.6	1765.1	-23.0
464	ok	0.07	9.90e-02	0.0	12.7	12.7	12.7	12.7	2.4	3.2	0.1	429.6	1772.1	8.3
465	ok	0.07	9.74e-02	0.0	12.7	12.7	12.7	12.7	2.5	2.9	0.4	453.1	1741.9	41.1
466	ok	0.07	9.30e-02	9.01e-06	12.7	12.7	12.7	12.7	2.5	2.5	0.4	510.0	1661.6	81.7
467	ok	0.07	8.46e-02	6.96e-05	12.7	12.7	12.7	12.7	2.0	1.8	0.4	613.2	1497.7	134.0
468	ok	0.07	7.20e-02	2.00e-04	12.7	12.7	12.7	12.7	0.4	1.6	0.3	774.4	1221.4	189.5
469	ok	0.07	6.41e-02	4.14e-04	12.7	12.7	12.7	12.7	-2.0	1.5	0.4	989.5	836.1	225.5
470	ok	0.07	7.44e-02	6.94e-04	12.7	12.7	12.7	12.7	-4.3	0.3	0.8	1255.0	336.1	280.9
471	ok	0.07	6.98e-02	1.32e-03	12.7	12.7	12.7	12.7	-3.2	1.6	-0.2	897.8	317.9	-563.7
472	ok	0.07	6.87e-02	6.55e-04	12.7	12.7	12.7	12.7	-4.1	6.9	1.6	756.5	738.9	-486.2
473	ok	0.07	7.69e-02	2.44e-04	12.7	12.7	12.7	12.7	0.3	2.9	-1.2	581.8	1140.7	-433.6
474	ok	0.07	8.73e-02	1.26e-04	12.7	12.7	12.7	12.7	2.3	2.9	-1.9	473.6	1480.3	-299.2
475	ok	0.07	9.50e-02	6.08e-05	12.7	12.7	12.7	12.7	2.2	3.6	-1.4	412.8	1673.0	-186.9
476	ok	0.07	9.92e-02	0.0	12.7	12.7	12.7	12.7	2.1	4.0	-0.9	380.4	1767.8	-102.9
477	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	2.0	4.1	-0.3	365.5	1805.0	-40.5
478	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	2.0	4.1	0.3	362.5	1810.7	14.7
479	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	2.2	4.0	0.8	370.7	1788.5	72.0
480	ok	0.07	9.70e-02	0.0	12.7	12.7	12.7	12.7	2.4	3.6	1.2	392.2	1720.7	147.4
481	ok	0.07	9.07e-02	8.89e-05	12.7	12.7	12.7	12.7	2.5	2.7	1.3	434.6	1569.9	253.1
482	ok	0.07	8.08e-02	1.96e-04	12.7	12.7	12.7	12.7	0.5	3.3	1.1	522.2	1279.6	391.6
483	ok	0.07	6.97e-02	4.94e-04	12.7	12.7	12.7	12.7	-3.3	6.0	-8.91e-02	674.6	860.4	472.6
484	ok	0.07	6.88e-02	1.07e-03	12.7	12.7	12.7	12.7	-4.0	2.7	0.8	884.6	316.3	550.6
485	ok	0.07	5.17e-02	4.60e-03	12.7	12.7	12.7	12.7	-18.1	-15.6	-13.6	-37.9	-338.4	-691.9
486	ok	0.07	7.76e-02	3.30e-03	12.7	12.7	12.7	12.7	2.3	35.9	18.1	255.9	1210.6	-417.8
487	ok	0.07	8.90e-02	6.28e-04	12.7	12.7	12.7	12.7	-1.9	13.1	-6.3	86.2	1331.5	-601.5
488	ok	0.07	9.41e-02	1.93e-04	12.7	12.7	12.7	12.7	1.2	6.7	-2.3	150.2	1597.3	-351.7
489	ok	0.07	0.1	8.18e-05	12.7	12.7	12.7	12.7	1.6	5.8	-1.8	206.1	1765.1	-207.3
490	ok	0.07	0.1	2.06e-05	12.7	12.7	12.7	12.7	1.5	5.5	-1.1	245.8	1834.6	-109.6
491	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.4	5.4	-0.4	266.0	1856.7	-42.4
492	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.4	5.3	0.2	272.2	1858.0	14.6
493	ok	0.07	0.1	4.29e-06	12.7	12.7	12.7	12.7	1.6	5.5	1.0	256.9	1848.1	75.0
494	ok	0.07	0.1	4.98e-05	12.7	12.7	12.7	12.7	2.0	5.5	1.6	229.4	1800.6	155.1
495	ok	0.07	9.72e-02	1.43e-04	12.7	12.7	12.7	12.7	2.5	5.6	2.1	174.1	1685.0	277.3
496	ok	0.07	9.13e-02	5.12e-04	12.7	12.7	12.7	12.7	-1.4	8.7	2.0	49.6	1466.9	499.7
497	ok	0.07	8.45e-02	2.10e-03	12.7	12.7	12.7	12.7	-1.8	36.0	-5.4	180.6	1293.3	487.1
498	ok	0.07	5.32e-02	5.45e-03	12.7	12.7	12.7	12.7	-8.3	-30.0	13.1	-4.2	-371.3	707.9
499	ok	0.07	0.1	1.49e-02	12.7	12.7	12.7	12.7	29.1	-46.3	-29.2	-976.7	-1169.6	-1349.8
500	ok	0.07	0.1	1.48e-02	12.7	12.7	12.7	12.7	-35.1	-42.1	-59.4	-1489.4	-592.2	-1497.1
501	ok	0.07	8.93e-02	3.02e-03	12.7	12.7	12.7	12.7	-19.3	7.2	-4.6	-898.9	1369.0	-745.2
502	ok	0.07	0.1	3.06e-04	12.7	12.7	12.7	12.7	5.55e-02	9.3	-2.7	-248.0	1749.1	-269.0
503	ok	0.07	0.1	9.75e-05	12.7	12.7	12.7	12.7	1.0	7.8	-1.5	-8.9	1857.7	-136.9
504	ok	0.07	0.1	4.67e-05	12.7	12.7	12.7	12.7	0.9	6.8	-0.7	122.7	1889.0	-65.9
505	ok	0.07	0.1	8.28e-06	12.7	12.7	12.7	12.7	0.8	6.4	-0.3	177.8	1896.5	-23.7
506	ok	0.07	0.1	4.23e-06	12.7	12.7	12.7	12.7	0.9	6.4	0.2	187.3	1896.3	8.5
507	ok	0.07	0.1	2.61e-05	12.7	12.7	12.7	12.7	1.0	6.8	0.7	155.2	1893.9	43.6
508	ok	0.07	0.1	8.79e-05	12.7	12.7	12.7	12.7	1.5	7.5	1.2	71.9	1872.9	97.6
509	ok	0.07	0.1	2.81e-04	12.7	12.7	12.7	12.7	1.99e-02	9.5	3.0	-132.5	1813.2	201.0
510	ok	0.07	9.50e-02	3.51e-03	12.7	12.7	12.7	12.7	-21.4	9.5	7.9	-729.6	1542.9	592.5
511	ok	0.07	0.1	1.28e-02	12.7	12.7	12.7	12.7	-33.5	45.4	0.1	-1226.6	1571.6	747.0
512	ok	0.07	0.1	1.41e-02	12.7	12.7	12.7	12.7	26.4	-44.0	29.0	-993.5	-1118.5	1386.8
513	ok	0.07	7.06e-02	1.39e-04	12.7	12.7	12.7	12.7	1.3	3.9	1.1	515.2	1247.8	109.4
514	ok	0.07	0.2	1.07e-02	12.7	12.7	12.7	12.7	38.8	-19.7	0.5	-2756.8	1397.7	-339.2
515	ok	0.07	0.1	2.06e-03	12.7	12.7	12.7	12.7	19.3	22.1	-26.1	-835.2	1866.2	-227.4
516	ok	0.07	0.1	8.66e-05	12.7	12.7	12.7	12.7	2.8	9.3	-0.5	-449.2	1809.3	62.0
517	ok	0.07	0.1	1.08e-04	12.7	12.7	12.7	12.7	1.0	8.3	2.11e-02	-125.4	1885.0	52.3
518	ok	0.07	0.1	6.72e-05	12.7	12.7	12.7	12.7	0.6	7.4	-1.70e-02	58.0	1901.9	35.9
519	ok	0.07	0.1	3.61e-05	12.7	12.7	12.7	12.7	0.6	6.8	-4.69e-04	132.6	1899.1	15.6
520	ok	0.07	0.1	2.47e-05	12.7	12.7	12.7	12.7	0.6	6.8	-8.53e-02	145.6	1897.4	-5.7
521	ok	0.07	0.1	4.22e-05	12.7	12.7	12.7	12.7	0.7	7.3	-9.63e-02	101.9	1900.9	-26.0
522	ok	0.07	0.1	7.37e-05	12.7	12.7	12.7	12.7	1.1	8.4	-0.2	-30.1	1897.0	-43.8
523	ok	0.07	0.1	5.70e-05	12.7	12.7	12.7	12.7	2.7	9.9	0.2	-269.0	1857.0	-55.7
524	ok	0.07	0.1	1.28e-03	12.7	12.7	12.7	12.7	20.5	19.2	23.5	-533.5	1942.1	153.2
525	ok	0.07	0.1	7.07e-03	12.7	12.7	12.7	12.7	51.7	12.0	4.2	-1465.2	1992.9	333.2
526	ok	0.07	5.62e-02	4.45e-04	12.7	12.7	12.7	12.7	1.8	10.6	1.3	716.0	910.3	134.2
527	ok	0.07	5.03e-02	1.48e-03	12.7	12.7	12.7	12.7	-2.0	11.6	-1.0	882.7	458.8	83.6
528	ok	0.07	6.48e-02	5.03e-03	12.7	12.7	12.7	12.7	-9.6	23.9	20.8	1013.5	431.2	-80.5

529	ok	0.07	5.79e-02	2.95e-03	12.7	12.7	12.7	12.7	-4.4	15.4	-1.9	341.2	754.2	-393.8
530	ok	0.07	7.18e-02	9.04e-04	12.7	12.7	12.7	12.7	0.3	5.1	-5.9	303.2	1148.5	-358.6
531	ok	0.07	8.35e-02	3.04e-05	12.7	12.7	12.7	12.7	1.3	4.6	-2.2	310.1	1463.2	-188.9
532	ok	0.07	9.24e-02	4.60e-05	12.7	12.7	12.7	12.7	0.6	4.1	-1.1	266.3	1642.1	-118.3
533	ok	0.07	9.70e-02	3.92e-05	12.7	12.7	12.7	12.7	0.4	3.8	-0.5	230.0	1732.8	-67.5
534	ok	0.07	9.89e-02	2.74e-05	12.7	12.7	12.7	12.7	0.3	3.6	-0.2	209.2	1769.5	-26.7
535	ok	0.07	9.92e-02	2.39e-05	12.7	12.7	12.7	12.7	0.3	3.6	0.1	206.2	1774.7	12.4
536	ok	0.07	9.79e-02	3.70e-05	12.7	12.7	12.7	12.7	0.3	3.8	0.4	221.3	1751.1	51.3
537	ok	0.07	9.45e-02	4.40e-05	12.7	12.7	12.7	12.7	0.5	4.2	0.9	254.0	1684.0	97.8
538	ok	0.07	8.76e-02	2.65e-05	12.7	12.7	12.7	12.7	1.1	4.7	2.1	299.2	1545.3	160.5
539	ok	0.07	0.2	1.85e-02	12.7	12.7	12.7	12.7	32.7	-67.0	36.1	-1664.6	-1724.2	1478.2
540	ok	0.07	0.2	1.84e-02	12.7	12.7	12.7	12.7	-59.9	-52.8	65.9	-2382.8	-898.1	1964.5
541	ok	0.07	9.58e-02	6.11e-03	12.7	12.7	12.7	12.7	-30.9	6.4	21.2	-1276.7	1383.2	962.3
542	ok	0.07	0.1	4.87e-04	12.7	12.7	12.7	12.7	-1.6	9.4	3.6	-362.7	1749.2	332.5
543	ok	0.07	0.1	1.37e-04	12.7	12.7	12.7	12.7	0.6	7.8	1.2	-58.7	1840.3	192.5
544	ok	0.07	0.1	6.76e-05	12.7	12.7	12.7	12.7	0.7	6.9	0.6	87.9	1864.2	109.0
545	ok	0.07	0.1	3.70e-05	12.7	12.7	12.7	12.7	0.7	6.4	0.2	155.2	1864.5	43.3
546	ok	0.07	0.1	2.48e-05	12.7	12.7	12.7	12.7	0.8	6.3	-0.2	166.6	1863.4	-15.6
547	ok	0.07	0.1	4.87e-05	12.7	12.7	12.7	12.7	0.8	6.7	-0.6	125.8	1865.3	-76.9
548	ok	0.07	0.1	1.03e-04	12.7	12.7	12.7	12.7	1.3	7.4	-1.0	19.1	1855.2	-150.3
549	ok	0.07	0.1	3.95e-04	12.7	12.7	12.7	12.7	-1.2	9.1	-3.8	-230.1	1804.5	-266.3
550	ok	0.07	9.87e-02	6.00e-03	12.7	12.7	12.7	12.7	-31.9	8.8	-19.7	-1047.7	1530.4	-773.8
551	ok	0.07	0.2	1.37e-02	12.7	12.7	12.7	12.7	-41.9	47.1	9.2	-1852.5	1608.6	-707.6
552	ok	0.07	0.2	1.84e-02	12.7	12.7	12.7	12.7	25.6	-66.8	-39.0	-1706.2	-1733.2	-1534.5
553	ok	0.07	8.57e-02	6.56e-03	12.7	12.7	12.7	12.7	-23.7	-33.0	14.4	-583.9	-621.3	916.3
554	ok	0.07	8.57e-02	3.45e-03	12.7	12.7	12.7	12.7	-7.1	9.8	1.8	-309.1	585.9	977.7
555	ok	0.07	9.45e-02	9.66e-04	12.7	12.7	12.7	12.7	-5.6	17.1	4.3	-240.2	1339.7	795.5
556	ok	0.07	9.66e-02	1.80e-04	12.7	12.7	12.7	12.7	0.9	7.5	2.3	-16.3	1583.8	487.7
557	ok	0.07	9.97e-02	1.12e-04	12.7	12.7	12.7	12.7	1.4	5.8	1.5	124.2	1719.1	306.5
558	ok	0.07	0.1	5.86e-05	12.7	12.7	12.7	12.7	1.2	5.4	1.0	201.2	1770.5	173.8
559	ok	0.07	0.1	1.71e-05	12.7	12.7	12.7	12.7	1.2	5.1	0.4	238.7	1783.8	68.6
560	ok	0.07	1.00e-01	0.0	12.7	12.7	12.7	12.7	1.3	5.1	-0.3	244.6	1785.0	-25.5
561	ok	0.07	0.1	3.81e-05	12.7	12.7	12.7	12.7	1.4	5.2	-0.9	219.9	1778.9	-124.2
562	ok	0.07	0.1	7.65e-05	12.7	12.7	12.7	12.7	1.7	5.4	-1.5	157.9	1748.7	-243.3
563	ok	0.07	9.81e-02	1.41e-04	12.7	12.7	12.7	12.7	2.3	5.4	-1.8	44.2	1655.0	-404.0
564	ok	0.07	9.40e-02	5.81e-04	12.7	12.7	12.7	12.7	-3.7	10.1	0.6	-222.5	1453.4	-648.3
565	ok	0.07	9.28e-02	1.75e-03	12.7	12.7	12.7	12.7	1.10e-02	47.9	0.5	-83.5	1276.1	-741.6
566	ok	0.07	8.14e-02	7.44e-03	12.7	12.7	12.7	12.7	-7.7	-45.6	-12.6	-475.8	-603.2	-897.8
567	ok	0.07	7.90e-02	1.56e-03	12.7	12.7	12.7	12.7	-1.5	3.9	1.0	647.7	284.7	933.5
568	ok	0.07	7.93e-02	5.42e-04	12.7	12.7	12.7	12.7	-3.3	10.4	-0.6	547.1	693.5	796.2
569	ok	0.07	8.50e-02	2.82e-04	12.7	12.7	12.7	12.7	-0.3	3.9	1.5	420.3	1071.4	704.4
570	ok	0.07	9.02e-02	1.65e-04	12.7	12.7	12.7	12.7	1.8	3.3	2.0	368.1	1407.5	506.5
571	ok	0.07	9.31e-02	1.05e-04	12.7	12.7	12.7	12.7	1.9	3.6	1.6	357.9	1580.4	332.7
572	ok	0.07	9.41e-02	4.69e-05	12.7	12.7	12.7	12.7	1.8	3.7	1.1	357.8	1656.6	192.7
573	ok	0.07	9.43e-02	0.0	12.7	12.7	12.7	12.7	1.8	3.6	0.4	358.4	1683.1	77.0
574	ok	0.07	9.43e-02	0.0	12.7	12.7	12.7	12.7	1.9	3.6	-0.3	360.3	1685.4	-29.3
575	ok	0.07	9.42e-02	2.28e-05	12.7	12.7	12.7	12.7	2.0	3.5	-0.8	355.3	1671.5	-140.4
576	ok	0.07	9.35e-02	6.81e-05	12.7	12.7	12.7	12.7	2.0	3.3	-1.3	351.1	1618.5	-270.9
577	ok	0.07	9.13e-02	1.23e-04	12.7	12.7	12.7	12.7	1.9	2.8	-1.3	350.0	1486.5	-435.6
578	ok	0.07	8.69e-02	2.40e-04	12.7	12.7	12.7	12.7	-0.2	4.3	-1.5	385.0	1206.9	-636.8
579	ok	0.07	8.00e-02	5.64e-04	12.7	12.7	12.7	12.7	-3.1	8.7	-1.3	483.8	798.5	-773.1
580	ok	0.07	7.81e-02	1.16e-03	12.7	12.7	12.7	12.7	-2.2	5.3	-1.6	635.2	290.0	-921.3
581	ok	0.07	8.80e-02	6.37e-04	12.7	12.7	12.7	12.7	-3.2	0.9	0.6	1195.8	309.8	698.4
582	ok	0.07	8.09e-02	4.80e-04	12.7	12.7	12.7	12.7	-2.3	1.7	0.8	1042.0	623.9	584.0
583	ok	0.07	8.00e-02	2.98e-04	12.7	12.7	12.7	12.7	-8.96e-02	1.3	1.1	840.4	992.6	511.9
584	ok	0.07	8.26e-02	1.79e-04	12.7	12.7	12.7	12.7	1.5	1.4	1.2	683.8	1282.2	398.0
585	ok	0.07	8.57e-02	1.00e-04	12.7	12.7	12.7	12.7	2.1	1.8	1.2	579.4	1458.0	274.7
586	ok	0.07	8.78e-02	4.15e-05	12.7	12.7	12.7	12.7	2.3	2.1	0.8	515.9	1548.0	163.2
587	ok	0.07	8.87e-02	0.0	12.7	12.7	12.7	12.7	2.4	2.2	0.4	483.6	1585.0	65.6
588	ok	0.07	8.88e-02	0.0	12.7	12.7	12.7	12.7	2.4	2.2	-0.2	479.3	1589.1	-25.8
589	ok	0.07	8.81e-02	1.63e-05	12.7	12.7	12.7	12.7	2.4	2.1	-0.6	496.6	1566.7	-121.1
590	ok	0.07	8.65e-02	6.62e-05	12.7	12.7	12.7	12.7	2.2	1.8	-0.8	544.8	1498.6	-228.3
591	ok	0.07	8.35e-02	1.31e-04	12.7	12.7	12.7	12.7	1.5	1.6	-0.9	630.8	1356.0	-350.2
592	ok	0.07	8.02e-02	2.59e-04	12.7	12.7	12.7	12.7	-5.07e-02	1.8	-1.0	767.7	1106.6	-471.2
593	ok	0.07	7.92e-02	4.40e-04	12.7	12.7	12.7	12.7	-1.9	2.0	-1.3	954.1	753.0	-558.9
594	ok	0.07	8.73e-02	6.27e-04	12.7	12.7	12.7	12.7	-3.1	1.2	-1.2	1189.1	304.2	-690.4
595	ok	0.07	8.98e-02	6.36e-04	12.7	12.7	12.7	12.7	-4.1	-2.31e-02	0.2	1487.1	320.7	399.9
596	ok	0.07	8.06e-02	4.75e-04	12.7	12.7	12.7	12.7	-2.5	0.1	0.5	1318.2	617.7	327.1
597	ok	0.07	7.32e-02	3.00e-04	12.7	12.7	12.7	12.7	-0.2	0.2	0.6	1084.6	956.2	287.2
598	ok	0.07	7.42e-02	1.82e-04	12.7	12.7	12.7	12.7	1.4	0.5	0.7	885.2	1211.1	230.8
599	ok	0.07	7.90e-02	9.74e-05	12.7	12.7	12.7	12.7	2.2	0.8	0.6	733.9	1377.2	164.6
600	ok	0.07	8.26e-02	4.19e-05	12.7	12.7	12.7	12.7	2.6	1.1	0.5	633.0	1470.8	99.8
601	ok	0.07	8.44e-02	0.0	12.7	12.7	12.7	12.7	2.7	1.3	0.2	579.6	1512.7	40.3
602	ok	0.07	8.47e-02	0.0	12.7	12.7	12.7	12.7	2.7	1.3	-7.54e-02	569.9	1518.7	-16.8
603	ok	0.07	8.34e-02	2.18e-05	12.7	12.7	12.7	12.7	2.6	1.2	-0.3	603.8	1490.8	-74.9
604	ok	0.07	8.04e-02	6.99e-05	12.7	12.7	12.7	12.7	2.3	1.0	-0.4	684.2	1417.3	-138.3

605	ok	0.07	7.56e-02	1.41e-04	12.7	12.7	12.7	12.7	1.4	0.8	-0.5	815.2	1278.6	-205.2
606	ok	0.07	7.21e-02	2.57e-04	12.7	12.7	12.7	12.7	5.36e-02	0.6	-0.6	996.9	1056.7	-266.4
607	ok	0.07	7.65e-02	4.19e-04	12.7	12.7	12.7	12.7	-1.7	0.5	-0.7	1218.6	745.9	-311.6
608	ok	0.07	8.93e-02	6.04e-04	12.7	12.7	12.7	12.7	-3.9	8.86e-02	-0.5	1482.2	316.6	-393.4
609	ok	0.07	8.95e-02	6.67e-04	12.7	12.7	12.7	12.7	-4.4	-0.1	0.1	1602.9	325.7	72.0
610	ok	0.07	7.97e-02	4.81e-04	12.7	12.7	12.7	12.7	-2.7	-0.2	0.3	1425.3	616.6	58.1
611	ok	0.07	6.64e-02	2.95e-04	12.7	12.7	12.7	12.7	-0.3	-0.3	0.3	1180.3	944.0	50.8
612	ok	0.07	6.64e-02	1.56e-04	12.7	12.7	12.7	12.7	1.4	8.01e-02	0.2	969.2	1184.4	41.5
613	ok	0.07	7.50e-02	8.35e-05	12.7	12.7	12.7	12.7	2.3	0.4	0.1	802.0	1344.2	30.6
614	ok	0.07	8.01e-02	3.51e-05	12.7	12.7	12.7	12.7	2.7	0.8	8.46e-02	687.3	1437.3	18.9
615	ok	0.07	8.25e-02	2.38e-06	12.7	12.7	12.7	12.7	2.9	0.9	9.20e-02	625.4	1480.5	7.7
616	ok	0.07	8.28e-02	0.0	12.7	12.7	12.7	12.7	2.9	1.0	-5.46e-03	614.5	1486.7	-3.7
617	ok	0.07	8.12e-02	2.22e-05	12.7	12.7	12.7	12.7	2.7	0.9	-1.98e-03	654.3	1457.6	-14.6
618	ok	0.07	7.71e-02	6.55e-05	12.7	12.7	12.7	12.7	2.3	0.6	-7.21e-02	746.9	1383.7	-26.0
619	ok	0.07	6.98e-02	1.24e-04	12.7	12.7	12.7	12.7	1.5	0.4	-0.2	893.3	1249.2	-37.0
620	ok	0.07	6.22e-02	2.49e-04	12.7	12.7	12.7	12.7	0.1	0.2	-0.3	1089.3	1039.1	-46.2
621	ok	0.07	7.39e-02	4.13e-04	12.7	12.7	12.7	12.7	-1.8	6.48e-02	-0.3	1321.9	743.4	-52.9
622	ok	0.07	8.93e-02	6.36e-04	12.7	12.7	12.7	12.7	-4.2	-1.82e-02	-0.1	1597.7	321.8	-69.3
623	ok	0.07	9.00e-02	6.74e-04	12.7	12.7	12.7	12.7	-4.4	-8.55e-02	9.06e-02	1559.1	323.8	-268.6
624	ok	0.07	8.05e-02	4.87e-04	12.7	12.7	12.7	12.7	-2.6	-0.1	-3.47e-02	1385.6	618.5	-219.7
625	ok	0.07	7.04e-02	2.75e-04	12.7	12.7	12.7	12.7	-0.1	-3.43e-02	-0.2	1146.2	951.0	-192.1
626	ok	0.07	7.07e-02	1.19e-04	12.7	12.7	12.7	12.7	1.5	0.2	-0.4	939.4	1197.8	-154.1
627	ok	0.07	7.69e-02	4.41e-05	12.7	12.7	12.7	12.7	2.3	0.6	-0.4	779.2	1359.5	-109.8
628	ok	0.07	8.12e-02	0.0	12.7	12.7	12.7	12.7	2.7	1.0	-0.3	670.4	1452.1	-66.8
629	ok	0.07	8.33e-02	0.0	12.7	12.7	12.7	12.7	2.8	1.2	-0.1	612.0	1494.5	-27.4
630	ok	0.07	8.36e-02	0.0	12.7	12.7	12.7	12.7	2.8	1.3	0.1	601.5	1500.7	10.6
631	ok	0.07	8.22e-02	0.0	12.7	12.7	12.7	12.7	2.7	1.1	0.3	638.9	1472.6	49.4
632	ok	0.07	7.87e-02	2.77e-05	12.7	12.7	12.7	12.7	2.4	0.8	0.4	726.1	1399.8	92.2
633	ok	0.07	7.28e-02	9.58e-05	12.7	12.7	12.7	12.7	1.6	0.5	0.3	865.5	1264.4	137.8
634	ok	0.07	6.86e-02	2.29e-04	12.7	12.7	12.7	12.7	0.2	0.3	0.2	1055.2	1049.3	179.9
635	ok	0.07	7.55e-02	4.13e-04	12.7	12.7	12.7	12.7	-1.7	0.2	0.1	1283.4	745.9	210.8
636	ok	0.07	8.96e-02	6.43e-04	12.7	12.7	12.7	12.7	-4.2	2.36e-02	2.35e-02	1553.5	319.5	266.0
637	ok	0.07	8.97e-02	6.52e-04	12.7	12.7	12.7	12.7	-3.8	0.4	-1.01e-02	1352.8	316.9	-576.2
638	ok	0.07	8.17e-02	4.98e-04	12.7	12.7	12.7	12.7	-2.5	0.8	-9.19e-02	1188.8	625.9	-482.8
639	ok	0.07	7.80e-02	2.59e-04	12.7	12.7	12.7	12.7	0.1	0.7	-0.6	971.5	981.6	-423.8
640	ok	0.07	7.96e-02	1.21e-04	12.7	12.7	12.7	12.7	1.8	1.0	-1.0	794.9	1253.7	-332.0
641	ok	0.07	8.30e-02	4.44e-05	12.7	12.7	12.7	12.7	2.3	1.5	-1.0	668.0	1422.4	-231.9
642	ok	0.07	8.55e-02	0.0	12.7	12.7	12.7	12.7	2.4	1.9	-0.7	585.8	1512.8	-139.3
643	ok	0.07	8.68e-02	0.0	12.7	12.7	12.7	12.7	2.5	2.1	-0.3	542.7	1551.8	-56.5
644	ok	0.07	8.69e-02	0.0	12.7	12.7	12.7	12.7	2.5	2.1	0.2	534.8	1557.7	22.1
645	ok	0.07	8.61e-02	0.0	12.7	12.7	12.7	12.7	2.5	2.0	0.6	561.6	1533.0	102.7
646	ok	0.07	8.40e-02	1.33e-05	12.7	12.7	12.7	12.7	2.4	1.6	0.9	625.6	1464.4	192.9
647	ok	0.07	8.07e-02	8.13e-05	12.7	12.7	12.7	12.7	1.9	1.2	0.8	732.6	1326.4	293.8
648	ok	0.07	7.78e-02	2.18e-04	12.7	12.7	12.7	12.7	0.4	1.1	0.6	890.3	1090.7	393.0
649	ok	0.07	7.90e-02	4.26e-04	12.7	12.7	12.7	12.7	-1.8	1.2	0.5	1094.0	754.4	464.5
650	ok	0.07	8.91e-02	6.43e-04	12.7	12.7	12.7	12.7	-3.8	0.7	0.5	1344.7	311.0	571.5
651	ok	0.07	8.42e-02	1.20e-03	12.7	12.7	12.7	12.7	-2.7	1.7	0.1	923.3	295.4	-836.9
652	ok	0.07	8.10e-02	6.22e-04	12.7	12.7	12.7	12.7	-3.6	6.8	1.6	795.2	684.6	-712.5
653	ok	0.07	8.44e-02	2.23e-04	12.7	12.7	12.7	12.7	0.5	2.7	-1.3	636.2	1052.4	-633.9
654	ok	0.07	8.78e-02	1.25e-04	12.7	12.7	12.7	12.7	2.2	2.7	-2.1	538.1	1359.0	-467.6
655	ok	0.07	9.03e-02	6.33e-05	12.7	12.7	12.7	12.7	2.0	3.2	-1.7	481.1	1529.0	-315.4
656	ok	0.07	9.16e-02	0.0	12.7	12.7	12.7	12.7	2.0	3.4	-1.1	448.7	1610.7	-185.8
657	ok	0.07	9.20e-02	0.0	12.7	12.7	12.7	12.7	1.9	3.4	-0.4	432.5	1642.7	-74.3
658	ok	0.07	9.20e-02	0.0	12.7	12.7	12.7	12.7	2.0	3.4	0.3	431.8	1645.5	28.3
659	ok	0.07	9.18e-02	0.0	12.7	12.7	12.7	12.7	2.1	3.4	0.9	438.9	1628.4	135.4
660	ok	0.07	9.09e-02	2.96e-05	12.7	12.7	12.7	12.7	2.2	3.1	1.4	461.3	1570.9	257.7
661	ok	0.07	8.88e-02	8.77e-05	12.7	12.7	12.7	12.7	2.4	2.5	1.5	501.6	1439.6	405.8
662	ok	0.07	8.57e-02	1.87e-04	12.7	12.7	12.7	12.7	0.7	3.2	1.3	581.5	1180.2	579.5
663	ok	0.07	8.10e-02	4.86e-04	12.7	12.7	12.7	12.7	-2.7	6.0	-1.88e-02	718.9	798.7	692.7
664	ok	0.07	8.33e-02	9.57e-04	12.7	12.7	12.7	12.7	-3.5	3.0	0.5	908.9	296.3	825.7
665	ok	0.07	6.57e-02	4.27e-03	12.7	12.7	12.7	12.7	-16.7	-17.6	-11.2	-14.3	-385.8	-874.6
666	ok	0.07	8.46e-02	3.26e-03	12.7	12.7	12.7	12.7	3.6	34.4	16.7	287.7	1159.1	-641.3
667	ok	0.07	9.46e-02	6.57e-04	12.7	12.7	12.7	12.7	-1.3	13.5	-6.5	127.4	1271.5	-787.5
668	ok	0.07	9.47e-02	1.49e-04	12.7	12.7	12.7	12.7	1.3	6.8	-2.5	194.3	1511.5	-513.4
669	ok	0.07	9.74e-02	8.49e-05	12.7	12.7	12.7	12.7	1.5	5.6	-1.8	249.2	1665.7	-333.0
670	ok	0.07	9.81e-02	2.72e-05	12.7	12.7	12.7	12.7	1.3	5.2	-1.1	288.2	1728.2	-191.8
671	ok	0.07	9.80e-02	0.0	12.7	12.7	12.7	12.7	1.3	5.0	-0.4	307.9	1748.0	-75.9
672	ok	0.07	9.79e-02	0.0	12.7	12.7	12.7	12.7	1.3	4.9	0.3	313.8	1748.3	28.8
673	ok	0.07	9.81e-02	4.64e-06	12.7	12.7	12.7	12.7	1.4	5.1	1.0	299.4	1740.0	138.2
674	ok	0.07	9.79e-02	5.08e-05	12.7	12.7	12.7	12.7	1.7	5.5	1.7	267.7	1701.0	265.8
675	ok	0.07	9.62e-02	1.19e-04	12.7	12.7	12.7	12.7	2.4	5.5	2.1	217.2	1593.5	424.8
676	ok	0.07	9.46e-02	4.88e-04	12.7	12.7	12.7	12.7	-0.9	9.0	2.2	95.7	1396.6	676.0
677	ok	0.07	9.22e-02	1.95e-03	12.7	12.7	12.7	12.7	-0.5	36.0	-4.0	219.7	1255.1	708.0
678	ok	0.07	6.54e-02	5.44e-03	12.7	12.7	12.7	12.7	-7.3	-31.9	10.9	17.9	-419.0	890.8
679	ok	0.07	0.1	1.57e-02	12.7	12.7	12.7	12.7	28.9	-50.3	-30.2	-936.9	-1226.3	-1617.5
680	ok	0.07	0.1	1.38e-02	12.7	12.7	12.7	12.7	-27.5	59.5	-12.3	-1101.5	1364.4	-1169.9

681	ok	0.07	9.53e-02	2.59e-03	12.7	12.7	12.7	12.7	-15.6	8.3	-6.4	-800.3	1336.8	-946.4
682	ok	0.07	0.1	2.70e-04	12.7	12.7	12.7	12.7	0.4	9.4	-2.5	-204.8	1696.7	-434.0
683	ok	0.07	0.1	1.02e-04	12.7	12.7	12.7	12.7	1.1	7.4	-1.0	38.6	1796.1	-261.7
684	ok	0.07	0.1	6.35e-05	12.7	12.7	12.7	12.7	0.8	6.6	-0.7	150.2	1835.1	-149.1
685	ok	0.07	0.1	3.50e-05	12.7	12.7	12.7	12.7	0.8	6.1	-0.3	203.7	1842.5	-58.8
686	ok	0.07	0.1	2.65e-05	12.7	12.7	12.7	12.7	0.8	6.1	0.2	213.3	1842.5	23.1
687	ok	0.07	0.1	4.66e-05	12.7	12.7	12.7	12.7	0.9	6.5	0.6	182.1	1839.8	107.9
688	ok	0.07	0.1	6.79e-05	12.7	12.7	12.7	12.7	1.3	7.3	1.0	101.4	1819.0	207.6
689	ok	0.07	0.1	2.39e-04	12.7	12.7	12.7	12.7	0.3	9.6	2.8	-91.7	1760.4	352.0
690	ok	0.07	9.94e-02	3.12e-03	12.7	12.7	12.7	12.7	-18.1	10.4	9.0	-638.8	1510.2	779.9
691	ok	0.07	0.1	1.17e-02	12.7	12.7	12.7	12.7	-30.9	45.4	-0.4	-1142.6	1538.7	935.4
692	ok	0.07	0.2	1.53e-02	12.7	12.7	12.7	12.7	24.2	-48.7	31.0	-975.0	-1210.1	1658.1
693	ok	0.07	6.10e-02	2.72e-03	12.7	12.7	12.7	12.7	11.8	8.9	-14.3	493.9	984.7	170.2
694	ok	0.07	0.2	1.04e-02	12.7	12.7	12.7	12.7	39.3	-15.0	-8.5	-2641.9	1598.7	17.0
695	ok	0.07	0.1	1.56e-03	12.7	12.7	12.7	12.7	25.8	20.4	-22.1	-692.6	1845.6	-382.5
696	ok	0.07	0.1	1.12e-04	12.7	12.7	12.7	12.7	3.0	8.8	-1.37e-03	-416.7	1805.2	-112.9
697	ok	0.07	0.1	1.03e-04	12.7	12.7	12.7	12.7	1.1	8.0	0.2	-103.7	1890.7	-80.9
698	ok	0.07	0.1	7.74e-05	12.7	12.7	12.7	12.7	0.7	7.1	3.89e-02	74.0	1914.2	-51.2
699	ok	0.07	0.1	4.83e-05	12.7	12.7	12.7	12.7	0.6	6.6	-1.68e-02	145.6	1914.7	-21.0
700	ok	0.07	0.1	4.35e-05	12.7	12.7	12.7	12.7	0.7	6.6	-0.1	158.1	1913.6	10.2
701	ok	0.07	0.1	6.66e-05	12.7	12.7	12.7	12.7	0.8	7.1	-0.2	116.2	1914.8	41.2
702	ok	0.07	0.1	7.62e-05	12.7	12.7	12.7	12.7	1.1	8.0	-0.4	-11.5	1905.4	71.4
703	ok	0.07	0.1	5.92e-05	12.7	12.7	12.7	12.7	2.8	9.4	-0.3	-241.6	1856.7	103.5
704	ok	0.07	0.1	8.48e-04	12.7	12.7	12.7	12.7	25.6	18.1	20.2	-409.3	1932.7	305.2
705	ok	0.07	0.1	7.05e-03	12.7	12.7	12.7	12.7	35.5	6.4	-5.9	-1641.2	1889.0	394.4
706	ok	0.07	6.19e-02	5.26e-03	12.7	12.7	12.7	12.7	4.3	17.8	3.8	503.2	453.6	398.6
707	ok	0.07	6.88e-02	3.13e-03	12.7	12.7	12.7	12.7	21.8	-4.4	-6.4	291.0	422.3	-574.9
708	ok	0.07	7.76e-02	4.84e-04	12.7	12.7	12.7	12.7	14.8	8.5	-5.9	234.1	1253.2	-374.8
709	ok	0.07	8.83e-02	7.24e-05	12.7	12.7	12.7	12.7	1.3	5.7	-1.3	124.2	1525.3	-274.4
710	ok	0.07	9.60e-02	4.61e-05	12.7	12.7	12.7	12.7	0.2	4.3	-0.6	104.0	1696.4	-185.3
711	ok	0.07	9.97e-02	3.65e-05	12.7	12.7	12.7	12.7	7.54e-02	3.7	-0.3	90.9	1775.7	-110.3
712	ok	0.07	0.1	3.05e-05	12.7	12.7	12.7	12.7	6.71e-02	3.4	-0.1	82.2	1807.5	-42.9
713	ok	0.07	0.1	2.80e-05	12.7	12.7	12.7	12.7	6.08e-02	3.4	7.38e-02	80.9	1811.7	20.3
714	ok	0.07	0.1	3.57e-05	12.7	12.7	12.7	12.7	5.75e-02	3.6	0.2	87.8	1791.6	85.3
715	ok	0.07	9.78e-02	4.53e-05	12.7	12.7	12.7	12.7	4.79e-02	4.1	0.4	100.8	1733.1	160.1
716	ok	0.07	9.21e-02	7.08e-05	12.7	12.7	12.7	12.7	1.3	5.4	1.1	129.8	1605.9	246.5
717	ok	0.07	8.60e-02	3.14e-04	12.7	12.7	12.7	12.7	14.0	9.4	6.6	268.8	1420.5	362.5
718	ok	0.07	7.08e-02	2.89e-03	12.7	12.7	12.7	12.7	-3.5	1.7	-9.5	-240.5	1013.5	267.3
719	ok	0.07	0.1	1.57e-02	12.7	12.7	12.7	12.7	29.2	-55.6	31.8	-1580.5	-1520.9	1067.7
720	ok	0.07	0.2	1.81e-02	12.7	12.7	12.7	12.7	-59.0	-53.0	64.3	-2293.5	-885.9	1689.3
721	ok	0.07	8.73e-02	5.88e-03	12.7	12.7	12.7	12.7	-31.4	3.6	18.1	-1259.5	1377.3	703.1
722	ok	0.07	0.1	4.62e-04	12.7	12.7	12.7	12.7	-1.7	8.4	3.3	-347.2	1780.5	144.6
723	ok	0.07	0.1	1.27e-04	12.7	12.7	12.7	12.7	0.8	7.4	1.1	-49.0	1888.1	51.7
724	ok	0.07	0.1	6.99e-05	12.7	12.7	12.7	12.7	0.8	6.7	0.5	91.9	1922.5	18.0
725	ok	0.07	0.1	3.58e-05	12.7	12.7	12.7	12.7	0.8	6.3	0.1	156.0	1928.2	5.2
726	ok	0.07	0.1	3.47e-05	12.7	12.7	12.7	12.7	0.8	6.2	-0.2	166.7	1928.0	0.9
727	ok	0.07	0.1	6.63e-05	12.7	12.7	12.7	12.7	0.9	6.5	-0.6	127.7	1926.2	-7.0
728	ok	0.07	0.1	1.01e-04	12.7	12.7	12.7	12.7	1.6	7.0	-1.0	26.1	1907.4	-29.5
729	ok	0.07	0.1	3.97e-04	12.7	12.7	12.7	12.7	-1.3	8.3	-3.6	-220.1	1841.7	-96.3
730	ok	0.07	9.42e-02	5.83e-03	12.7	12.7	12.7	12.7	-32.0	6.0	-17.3	-1038.5	1530.1	-541.5
731	ok	0.07	0.2	1.40e-02	12.7	12.7	12.7	12.7	-43.4	43.9	9.0	-1817.8	1560.2	-474.2
732	ok	0.07	0.1	1.53e-02	12.7	12.7	12.7	12.7	25.1	-54.5	-33.2	-1591.8	-1492.3	-1117.3
733	ok	0.07	6.66e-02	6.28e-03	12.7	12.7	12.7	12.7	-23.5	-26.6	16.6	-502.3	-484.3	668.5
734	ok	0.07	7.81e-02	3.23e-03	12.7	12.7	12.7	12.7	6.0	48.8	-18.3	22.3	1243.7	295.6
735	ok	0.07	8.74e-02	9.71e-04	12.7	12.7	12.7	12.7	-5.9	15.6	3.4	-222.9	1370.3	556.8
736	ok	0.07	9.58e-02	2.03e-04	12.7	12.7	12.7	12.7	1.1	6.8	1.7	-19.8	1659.2	290.7
737	ok	0.07	0.1	8.98e-05	12.7	12.7	12.7	12.7	1.6	5.6	1.2	111.5	1820.5	156.5
738	ok	0.07	0.1	5.77e-05	12.7	12.7	12.7	12.7	1.4	5.5	0.7	182.4	1887.9	77.2
739	ok	0.07	0.1	1.67e-05	12.7	12.7	12.7	12.7	1.3	5.3	0.2	217.2	1909.3	28.2
740	ok	0.07	0.1	5.18e-06	12.7	12.7	12.7	12.7	1.3	5.2	-0.2	222.3	1911.3	-9.3
741	ok	0.07	0.1	4.48e-05	12.7	12.7	12.7	12.7	1.5	5.3	-0.7	199.2	1900.1	-50.4
742	ok	0.07	0.1	8.07e-05	12.7	12.7	12.7	12.7	1.9	5.2	-1.2	141.4	1856.8	-114.9
743	ok	0.07	9.91e-02	1.55e-04	12.7	12.7	12.7	12.7	2.4	4.9	-1.3	36.4	1740.6	-226.1
744	ok	0.07	8.99e-02	6.69e-04	12.7	12.7	12.7	12.7	-4.3	9.1	1.3	-218.0	1501.3	-427.6
745	ok	0.07	8.14e-02	1.82e-03	12.7	12.7	12.7	12.7	-1.7	44.2	2.8	-64.5	1247.6	-456.7
746	ok	0.07	6.29e-02	6.73e-03	12.7	12.7	12.7	12.7	-8.3	-38.7	-14.8	-404.9	-480.1	-650.2
747	ok	0.07	5.95e-02	1.53e-03	12.7	12.7	12.7	12.7	-1.4	3.6	1.3	647.0	300.4	565.9
748	ok	0.07	6.34e-02	5.42e-04	12.7	12.7	12.7	12.7	-3.3	9.9	-0.7	532.3	732.8	492.0
749	ok	0.07	7.56e-02	2.59e-04	12.7	12.7	12.7	12.7	-0.4	4.1	1.0	386.3	1152.4	440.1
750	ok	0.07	8.93e-02	1.26e-04	12.7	12.7	12.7	12.7	1.9	3.5	1.3	318.5	1531.3	292.5
751	ok	0.07	9.83e-02	7.92e-05	12.7	12.7	12.7	12.7	2.0	3.9	1.0	301.2	1737.9	174.1
752	ok	0.07	0.1	3.61e-05	12.7	12.7	12.7	12.7	1.8	4.2	0.6	300.0	1834.6	92.4
753	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.7	4.3	0.3	301.7	1870.7	36.0
754	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.7	4.2	-0.2	301.0	1876.1	-13.2
755	ok	0.07	0.1	2.33e-05	12.7	12.7	12.7	12.7	1.9	4.0	-0.6	298.1	1852.3	-65.7
756	ok	0.07	0.1	6.97e-05	12.7	12.7	12.7	12.7	2.1	3.6	-0.7	293.1	1784.7	-136.2

757	ok	0.07	9.31e-02	7.76e-05	12.7	12.7	12.7	12.7	1.9	3.0	-0.6	296.3	1623.3	-243.9
758	ok	0.07	8.06e-02	2.12e-04	12.7	12.7	12.7	12.7	-0.5	4.3	-0.8	343.7	1301.8	-392.0
759	ok	0.07	6.56e-02	5.68e-04	12.7	12.7	12.7	12.7	-3.3	8.2	-1.0	462.8	848.4	-479.7
760	ok	0.07	5.87e-02	1.14e-03	12.7	12.7	12.7	12.7	-2.0	4.7	-2.0	636.0	303.1	-553.0
761	ok	0.07	6.59e-02	5.90e-04	12.7	12.7	12.7	12.7	-3.2	0.4	0.9	1064.7	326.3	318.4
762	ok	0.07	6.04e-02	4.38e-04	12.7	12.7	12.7	12.7	-1.9	1.9	0.6	910.6	684.6	262.7
763	ok	0.07	6.77e-02	2.30e-04	12.7	12.7	12.7	12.7	0.2	1.9	0.5	701.3	1109.6	229.4
764	ok	0.07	8.31e-02	1.21e-04	12.7	12.7	12.7	12.7	1.7	2.0	0.4	546.4	1458.6	171.8
765	ok	0.07	9.40e-02	5.43e-05	12.7	12.7	12.7	12.7	2.1	2.7	0.4	453.0	1672.8	114.1
766	ok	0.07	1.00e-01	2.04e-05	12.7	12.7	12.7	12.7	2.0	3.2	0.3	402.3	1785.0	65.8
767	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	2.0	3.5	0.1	378.8	1832.6	26.2
768	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	2.0	3.5	-5.23e-02	374.1	1839.3	-10.3
769	ok	0.07	0.1	4.44e-06	12.7	12.7	12.7	12.7	2.0	3.2	-0.1	387.3	1808.4	-48.3
770	ok	0.07	9.67e-02	4.96e-05	12.7	12.7	12.7	12.7	2.0	2.8	-0.1	423.7	1723.2	-94.0
771	ok	0.07	8.76e-02	8.30e-05	12.7	12.7	12.7	12.7	1.5	2.3	-5.07e-02	497.3	1548.5	-149.9
772	ok	0.07	7.32e-02	2.05e-04	12.7	12.7	12.7	12.7	9.04e-02	2.4	-0.3	628.7	1245.7	-210.2
773	ok	0.07	5.98e-02	3.97e-04	12.7	12.7	12.7	12.7	-1.6	2.4	-0.9	819.8	830.4	-247.9
774	ok	0.07	6.53e-02	5.38e-04	12.7	12.7	12.7	12.7	-2.7	0.6	-1.3	1061.4	321.3	-307.2
775	ok	0.07	6.42e-02	6.03e-04	12.7	12.7	12.7	12.7	-3.5	-0.4	-0.6	1116.7	376.7	-12.8
776	ok	0.07	5.51e-02	4.46e-04	12.7	12.7	12.7	12.7	-1.7	1.2	-0.3	987.2	682.8	-15.3
777	ok	0.07	6.18e-02	2.08e-04	12.7	12.7	12.7	12.7	0.5	1.1	-0.6	769.5	1108.1	-6.2
778	ok	0.07	8.05e-02	7.38e-05	12.7	12.7	12.7	12.7	1.7	1.8	-0.5	611.4	1443.1	16.8
779	ok	0.07	9.23e-02	3.19e-05	12.7	12.7	12.7	12.7	2.0	2.5	-0.4	508.4	1652.4	22.9
780	ok	0.07	9.86e-02	0.0	12.7	12.7	12.7	12.7	2.0	3.1	-0.3	448.0	1765.3	19.0
781	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.9	3.3	-0.1	420.0	1812.5	8.8
782	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.9	3.3	0.1	414.9	1818.7	-3.9
783	ok	0.07	9.99e-02	0.0	12.7	12.7	12.7	12.7	1.9	3.2	0.3	431.4	1788.1	-15.8
784	ok	0.07	9.51e-02	2.35e-05	12.7	12.7	12.7	12.7	1.9	2.8	0.5	475.4	1703.2	-23.0
785	ok	0.07	8.54e-02	5.98e-05	12.7	12.7	12.7	12.7	1.5	2.2	0.6	560.6	1531.0	-20.6
786	ok	0.07	6.93e-02	1.84e-04	12.7	12.7	12.7	12.7	0.5	1.7	0.4	697.9	1243.3	-6.9
787	ok	0.07	5.01e-02	3.77e-04	12.7	12.7	12.7	12.7	-1.1	1.6	0.3	894.4	833.6	14.9
788	ok	0.07	6.40e-02	5.77e-04	12.7	12.7	12.7	12.7	-2.9	0.4	-2.40e-02	1144.5	328.5	22.1
789	ok	0.07	5.69e-02	1.01e-03	12.7	12.7	12.7	12.7	-2.3	2.4	-0.5	902.6	318.1	-288.5
790	ok	0.07	5.60e-02	4.63e-04	12.7	12.7	12.7	12.7	-2.0	5.5	1.31e-02	774.6	704.6	-262.5
791	ok	0.07	6.75e-02	1.93e-04	12.7	12.7	12.7	12.7	0.6	2.2	-1.3	607.8	1128.3	-220.5
792	ok	0.07	8.37e-02	4.91e-05	12.7	12.7	12.7	12.7	1.8	2.6	-1.6	510.2	1482.9	-124.6
793	ok	0.07	9.39e-02	4.92e-05	12.7	12.7	12.7	12.7	1.7	3.3	-1.3	461.4	1678.8	-57.8
794	ok	0.07	9.91e-02	3.44e-06	12.7	12.7	12.7	12.7	1.6	3.6	-0.7	433.7	1774.9	-22.9
795	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.6	3.6	-0.3	419.6	1813.0	-7.5
796	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.6	3.6	0.2	416.8	1818.2	2.5
797	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.6	3.5	0.7	425.5	1792.1	14.8
798	ok	0.07	9.63e-02	4.09e-05	12.7	12.7	12.7	12.7	1.6	3.3	1.2	446.9	1720.0	41.1
799	ok	0.07	8.81e-02	7.95e-05	12.7	12.7	12.7	12.7	1.5	2.7	1.5	485.6	1567.2	94.4
800	ok	0.07	7.40e-02	1.90e-04	12.7	12.7	12.7	12.7	0.8	3.0	1.6	559.9	1277.5	188.1
801	ok	0.07	5.82e-02	3.70e-04	12.7	12.7	12.7	12.7	-1.0	4.7	1.1	698.9	847.4	258.5
802	ok	0.07	5.69e-02	6.85e-04	12.7	12.7	12.7	12.7	-2.4	3.1	0.4	897.2	323.6	294.8
803	ok	0.07	3.65e-02	4.02e-03	12.7	12.7	12.7	12.7	-2.4	7.7	0.3	219.7	261.3	-395.3
804	ok	0.07	5.88e-02	1.66e-03	12.7	12.7	12.7	12.7	5.7	27.0	8.0	393.1	939.4	-251.0
805	ok	0.07	7.72e-02	5.41e-04	12.7	12.7	12.7	12.7	2.5	2.4	-3.0	237.9	1225.2	-329.2
806	ok	0.07	8.92e-02	1.32e-04	12.7	12.7	12.7	12.7	1.5	4.7	-2.4	317.5	1566.7	-163.0
807	ok	0.07	9.69e-02	7.50e-05	12.7	12.7	12.7	12.7	1.1	4.6	-1.5	365.7	1725.4	-78.0
808	ok	0.07	0.1	2.50e-05	12.7	12.7	12.7	12.7	1.1	4.3	-0.8	386.7	1798.1	-33.8
809	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.1	4.2	-0.3	392.2	1825.9	-12.4
810	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	1.1	4.2	0.2	393.2	1829.1	4.4
811	ok	0.07	0.1	1.52e-05	12.7	12.7	12.7	12.7	1.1	4.3	0.7	390.5	1810.9	21.5
812	ok	0.07	9.86e-02	6.30e-05	12.7	12.7	12.7	12.7	1.1	4.5	1.3	375.9	1759.0	55.2
813	ok	0.07	9.27e-02	1.16e-04	12.7	12.7	12.7	12.7	1.4	4.6	2.1	338.0	1641.9	121.6
814	ok	0.07	8.19e-02	3.33e-04	12.7	12.7	12.7	12.7	2.4	2.8	2.7	260.8	1383.7	262.4
815	ok	0.07	6.91e-02	9.19e-04	12.7	12.7	12.7	12.7	1.9	25.9	2.7	310.7	1051.5	380.9
816	ok	0.07	3.73e-02	4.35e-03	12.7	12.7	12.7	12.7	-10.2	9.5	-5.43e-02	387.7	327.1	239.3
817	ok	0.07	0.1	1.22e-02	12.7	12.7	12.7	12.7	19.8	-38.0	-21.4	-886.3	-1163.4	-695.6
818	ok	0.07	0.1	9.86e-03	12.7	12.7	12.7	12.7	-23.4	33.8	0.6	-1012.8	1073.0	-507.7
819	ok	0.07	8.00e-02	4.71e-03	12.7	12.7	12.7	12.7	-20.1	4.1	-19.9	-463.4	1310.5	-435.8
820	ok	0.07	9.27e-02	6.38e-04	12.7	12.7	12.7	12.7	1.1	6.9	-1.3	151.6	1640.7	-89.9
821	ok	0.07	9.91e-02	7.69e-05	12.7	12.7	12.7	12.7	8.53e-02	6.4	-1.2	273.3	1768.0	-39.2
822	ok	0.07	0.1	2.99e-05	12.7	12.7	12.7	12.7	0.6	5.2	-0.5	339.0	1819.0	-16.2
823	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	0.8	4.7	-0.1	364.2	1835.9	-5.1
824	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	0.7	4.6	0.2	367.8	1837.0	1.8
825	ok	0.07	0.1	1.97e-05	12.7	12.7	12.7	12.7	0.6	5.0	0.5	352.9	1826.6	10.0
826	ok	0.07	0.1	6.12e-05	12.7	12.7	12.7	12.7	0.5	5.5	0.7	307.6	1790.3	27.7
827	ok	0.07	9.56e-02	5.21e-04	12.7	12.7	12.7	12.7	1.2	6.6	1.3	223.0	1699.0	65.9
828	ok	0.07	8.62e-02	4.06e-03	12.7	12.7	12.7	12.7	-19.6	6.4	15.6	-275.3	1443.7	339.3
829	ok	0.07	9.88e-02	6.32e-03	12.7	12.7	12.7	12.7	-17.4	22.5	-4.3	-812.6	1283.5	278.7
830	ok	0.07	0.1	1.18e-02	12.7	12.7	12.7	12.7	14.7	-39.5	24.1	-915.0	-1198.6	730.9
831	ok	0.07	8.94e-02	4.85e-03	12.7	12.7	12.7	12.7	61.5	9.3	14.5	-793.3	1307.2	-417.7
832	ok	0.07	9.66e-02	7.51e-04	12.7	12.7	12.7	12.7	3.6	29.0	7.7	-121.5	1677.6	118.1

833	ok	0.07	9.34e-02	2.03e-04	12.7	12.7	12.7	12.7	2.4	8.3	-4.4	134.4	1663.0	-29.5
834	ok	0.07	9.92e-02	8.41e-05	12.7	12.7	12.7	12.7	0.4	5.5	0.4	256.7	1770.2	7.2
835	ok	0.07	0.1	3.41e-05	12.7	12.7	12.7	12.7	0.5	5.0	-2.72e-02	324.2	1819.9	4.0
836	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	0.6	4.7	-4.50e-02	353.2	1835.2	1.1
837	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	0.6	4.7	5.06e-02	357.3	1836.3	-0.9
838	ok	0.07	0.1	1.63e-05	12.7	12.7	12.7	12.7	0.5	4.9	8.53e-02	340.0	1826.7	-3.5
839	ok	0.07	0.1	6.53e-05	12.7	12.7	12.7	12.7	0.5	5.4	-0.3	293.0	1792.7	-6.3
840	ok	0.07	9.63e-02	1.49e-04	12.7	12.7	12.7	12.7	2.1	7.5	3.3	206.8	1716.3	19.8
841	ok	0.07	9.87e-02	6.31e-04	12.7	12.7	12.7	12.7	2.8	22.8	-7.2	-24.8	1727.7	-90.4
842	ok	0.07	9.71e-02	2.65e-03	12.7	12.7	12.7	12.7	43.4	29.2	7.7	-206.5	1567.7	-503.2
843	ok	0.07	0.1	1.29e-02	12.7	12.7	12.7	12.7	13.9	-42.6	21.3	-1404.8	-1543.7	616.2
844	ok	0.07	0.1	1.03e-02	12.7	12.7	12.7	12.7	-43.7	-29.7	31.2	-1653.6	-50.9	1180.9
845	ok	0.07	8.02e-02	6.07e-03	12.7	12.7	12.7	12.7	-26.7	1.7	23.9	-647.3	1289.0	446.1
846	ok	0.07	9.29e-02	8.96e-04	12.7	12.7	12.7	12.7	1.4	6.1	0.7	111.3	1646.0	72.0
847	ok	0.07	9.91e-02	1.41e-04	12.7	12.7	12.7	12.7	-6.09e-02	6.5	1.1	245.2	1768.2	37.8
848	ok	0.07	0.1	2.73e-05	12.7	12.7	12.7	12.7	0.5	5.2	0.2	319.8	1816.1	17.9
849	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	0.6	4.7	-6.14e-03	348.1	1831.5	6.1
850	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	0.6	4.6	-2.58e-02	352.2	1832.4	-3.1
851	ok	0.07	0.1	1.19e-05	12.7	12.7	12.7	12.7	0.6	5.0	-8.01e-02	335.1	1823.2	-12.8
852	ok	0.07	0.1	1.05e-04	12.7	12.7	12.7	12.7	5.72e-02	6.1	-0.8	281.7	1790.4	-28.3
853	ok	0.07	9.57e-02	6.76e-04	12.7	12.7	12.7	12.7	1.3	6.0	-0.7	187.1	1702.7	-53.6
854	ok	0.07	8.64e-02	4.73e-03	12.7	12.7	12.7	12.7	-22.7	3.7	-17.4	-407.4	1430.8	-340.8
855	ok	0.07	0.1	6.32e-03	12.7	12.7	12.7	12.7	-29.9	-25.6	-14.1	-1211.3	661.1	-714.8
856	ok	0.07	0.1	1.27e-02	12.7	12.7	12.7	12.7	9.6	-43.9	-23.8	-1428.5	-1574.6	-636.9
857	ok	0.07	3.81e-02	4.82e-03	12.7	12.7	12.7	12.7	-15.5	-28.3	7.8	-144.9	-340.9	387.6
858	ok	0.07	5.37e-02	1.35e-03	12.7	12.7	12.7	12.7	7.0	31.4	-6.3	223.2	806.5	296.5
859	ok	0.07	7.62e-02	6.89e-04	12.7	12.7	12.7	12.7	-4.5	7.6	-1.0	-36.3	1274.1	347.4
860	ok	0.07	8.96e-02	1.78e-04	12.7	12.7	12.7	12.7	1.7	4.4	1.5	210.8	1571.8	178.0
861	ok	0.07	9.69e-02	6.04e-05	12.7	12.7	12.7	12.7	1.0	4.6	0.7	291.7	1722.7	90.4
862	ok	0.07	0.1	1.96e-05	12.7	12.7	12.7	12.7	0.8	4.5	0.3	331.0	1788.2	43.3
863	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	0.7	4.4	0.1	346.9	1811.1	15.0
864	ok	0.07	0.1	0.0	12.7	12.7	12.7	12.7	0.7	4.4	-6.00e-02	347.4	1814.2	-7.1
865	ok	0.07	0.1	5.81e-06	12.7	12.7	12.7	12.7	0.8	4.4	-0.2	339.2	1799.7	-30.3
866	ok	0.07	9.84e-02	3.80e-05	12.7	12.7	12.7	12.7	0.9	4.5	-0.6	310.4	1754.6	-67.5
867	ok	0.07	9.30e-02	1.47e-04	12.7	12.7	12.7	12.7	1.5	4.3	-1.2	246.0	1645.4	-135.6
868	ok	0.07	8.14e-02	2.69e-04	12.7	12.7	12.7	12.7	2.3	2.0	-1.4	120.2	1387.0	-281.1
869	ok	0.07	6.68e-02	8.96e-04	12.7	12.7	12.7	12.7	1.4	28.3	-3.6	118.2	971.5	-456.7
870	ok	0.07	3.91e-02	4.66e-03	12.7	12.7	12.7	12.7	-3.3	22.3	6.0	17.1	508.7	-293.0
871	ok	0.07	5.07e-02	1.03e-03	12.7	12.7	12.7	12.7	-1.2	3.8	1.1	698.5	298.6	358.9
872	ok	0.07	5.37e-02	3.64e-04	12.7	12.7	12.7	12.7	-1.2	6.7	0.6	593.2	665.6	330.6
873	ok	0.07	6.77e-02	1.36e-04	12.7	12.7	12.7	12.7	0.8	2.0	0.7	447.3	1115.4	273.7
874	ok	0.07	8.37e-02	6.64e-05	12.7	12.7	12.7	12.7	1.6	2.7	0.7	387.8	1470.8	170.3
875	ok	0.07	9.33e-02	3.01e-05	12.7	12.7	12.7	12.7	1.3	3.6	0.4	364.6	1663.2	92.2
876	ok	0.07	9.79e-02	0.0	12.7	12.7	12.7	12.7	1.0	3.9	0.2	356.1	1750.4	44.9
877	ok	0.07	9.97e-02	0.0	12.7	12.7	12.7	12.7	0.8	3.9	0.1	351.5	1782.6	16.5
878	ok	0.07	9.99e-02	0.0	12.7	12.7	12.7	12.7	0.8	3.9	-2.75e-02	350.4	1787.2	-7.2
879	ok	0.07	9.88e-02	0.0	12.7	12.7	12.7	12.7	0.9	3.9	-9.00e-02	353.2	1767.2	-31.7
880	ok	0.07	9.55e-02	1.11e-05	12.7	12.7	12.7	12.7	1.2	3.6	-0.3	358.8	1705.1	-70.4
881	ok	0.07	8.80e-02	5.03e-05	12.7	12.7	12.7	12.7	1.4	2.9	-0.5	373.7	1558.1	-136.6
882	ok	0.07	7.42e-02	1.06e-04	12.7	12.7	12.7	12.7	0.8	3.3	-0.9	415.4	1264.8	-241.3
883	ok	0.07	5.73e-02	3.04e-04	12.7	12.7	12.7	12.7	-0.7	5.5	-1.4	527.4	815.3	-322.1
884	ok	0.07	5.08e-02	7.06e-04	12.7	12.7	12.7	12.7	-1.4	4.2	-1.2	695.5	304.6	-362.0
885	ok	0.07	5.46e-02	5.94e-04	12.7	12.7	12.7	12.7	-1.9	1.4	0.5	955.6	315.6	124.2
886	ok	0.07	4.80e-02	3.09e-04	12.7	12.7	12.7	12.7	-0.7	2.4	0.1	816.7	657.6	86.3
887	ok	0.07	6.13e-02	1.06e-04	12.7	12.7	12.7	12.7	1.1	1.6	-0.2	625.1	1083.2	86.6
888	ok	0.07	7.93e-02	1.17e-05	12.7	12.7	12.7	12.7	1.5	2.4	-0.3	491.9	1417.8	62.4
889	ok	0.07	9.05e-02	0.0	12.7	12.7	12.7	12.7	1.4	3.1	-0.3	408.6	1619.3	36.4
890	ok	0.07	9.61e-02	0.0	12.7	12.7	12.7	12.7	1.0	3.5	-0.1	363.1	1719.9	17.4
891	ok	0.07	9.84e-02	0.0	12.7	12.7	12.7	12.7	0.8	3.6	4.51e-03	341.5	1759.6	6.3
892	ok	0.07	9.86e-02	0.0	12.7	12.7	12.7	12.7	0.8	3.7	4.36e-02	337.9	1765.4	-2.9
893	ok	0.07	9.72e-02	0.0	12.7	12.7	12.7	12.7	0.9	3.6	0.2	351.8	1740.4	-12.4
894	ok	0.07	9.31e-02	0.0	12.7	12.7	12.7	12.7	1.3	3.3	0.3	386.4	1666.8	-28.6
895	ok	0.07	8.43e-02	2.00e-06	12.7	12.7	12.7	12.7	1.4	2.6	0.3	453.0	1507.7	-52.1
896	ok	0.07	6.88e-02	8.02e-05	12.7	12.7	12.7	12.7	1.1	2.0	0.2	564.3	1225.5	-77.1
897	ok	0.07	4.85e-02	2.48e-04	12.7	12.7	12.7	12.7	-0.2	2.9	1.77e-03	735.2	813.3	-85.1
898	ok	0.07	5.45e-02	4.94e-04	12.7	12.7	12.7	12.7	-1.8	1.8	-0.5	955.0	317.7	-124.1
899	ok	0.07	5.05e-02	1.11e-03	12.7	12.7	12.7	12.7	-4.0	9.6	0.2	866.5	433.3	-90.9
900	ok	0.07	5.40e-02	5.66e-04	12.7	12.7	12.7	12.7	2.6	8.4	1.5	800.6	749.5	-113.0
901	ok	0.07	6.39e-02	2.48e-04	12.7	12.7	12.7	12.7	0.9	4.8	-2.2	576.8	1110.1	-132.7
902	ok	0.07	7.97e-02	3.11e-05	12.7	12.7	12.7	12.7	1.5	3.5	-1.5	458.4	1420.8	-78.4
903	ok	0.07	9.02e-02	3.10e-05	12.7	12.7	12.7	12.7	1.1	3.5	-1.0	375.2	1613.9	-48.1
904	ok	0.07	9.58e-02	1.84e-05	12.7	12.7	12.7	12.7	0.8	3.6	-0.5	323.1	1713.4	-27.4
905	ok	0.07	9.80e-02	5.21e-06	12.7	12.7	12.7	12.7	0.6	3.6	-0.1	296.4	1754.6	-10.7
906	ok	0.07	9.83e-02	2.01e-06	12.7	12.7	12.7	12.7	0.6	3.6	0.2	292.4	1759.8	5.0
907	ok	0.07	9.69e-02	1.74e-05	12.7	12.7	12.7	12.7	0.7	3.7	0.4	310.4	1733.8	20.4
908	ok	0.07	9.28e-02	2.93e-05	12.7	12.7	12.7	12.7	1.0	3.6	0.9	352.7	1660.3	38.4

909	ok	0.07	9.44e-02	1.80e-03	12.7	12.7	12.7	12.7	2.1	53.7	4.2	-845.5	1161.2	986.2
910	ok	0.07	0.1	9.11e-03	12.7	12.7	12.7	12.7	-4.0	-57.9	12.1	-1364.4	-868.6	951.0
911	ok	0.07	7.41e-02	1.05e-02	12.7	12.7	12.7	12.7	-62.6	-15.1	20.1	-1176.9	306.3	407.7
912	ok	0.07	0.2	7.15e-03	12.7	12.7	12.7	12.7	19.5	-20.7	-14.6	-2807.2	1295.7	640.4
913	ok	0.07	0.2	3.27e-03	12.7	12.7	12.7	12.7	-20.4	6.3	-5.9	-3659.5	1182.2	-553.8
914	ok	0.07	0.2	5.39e-03	12.7	12.7	12.7	12.7	-31.4	2.1	-12.9	-3698.9	1090.1	-557.7
915	ok	0.07	9.52e-02	4.72e-03	12.7	12.7	12.7	12.7	4.6	-16.1	8.1	-1638.6	884.2	-398.7
916	ok	0.07	3.54e-02	4.74e-03	12.7	12.7	12.7	12.7	-28.8	-7.5	-8.0	-545.2	216.1	-197.5
917	ok	0.07	4.41e-02	2.22e-03	12.7	12.7	12.7	12.7	8.2	8.3	0.6	-34.0	-238.0	-497.5
918	ok	0.07	7.96e-02	2.07e-03	12.7	12.7	12.7	12.7	-6.2	-5.3	-8.0	1111.5	-173.6	-435.3
919	ok	0.07	9.40e-02	1.38e-03	12.7	12.7	12.7	12.7	-9.1	-2.7	-0.2	1652.8	-73.4	-239.6
920	ok	0.07	0.1	1.23e-03	12.7	12.7	12.7	12.7	-8.1	-0.6	9.13e-03	1865.7	-51.9	-112.8
921	ok	0.07	0.1	1.13e-03	12.7	12.7	12.7	12.7	-7.5	-5.45e-02	0.1	1904.5	-48.4	45.8
922	ok	0.07	0.1	1.07e-03	12.7	12.7	12.7	12.7	-7.0	-8.05e-02	7.67e-02	1797.1	-48.8	167.7
923	ok	0.07	8.77e-02	1.02e-03	12.7	12.7	12.7	12.7	-6.7	-0.3	3.92e-02	1520.4	-51.9	289.7
924	ok	0.07	6.40e-02	8.77e-04	12.7	12.7	12.7	12.7	-5.8	-1.3	0.1	1008.0	-61.7	406.4
925	ok	0.07	3.25e-02	9.58e-04	12.7	12.7	12.7	12.7	-3.0	-5.6	1.6	119.5	-98.8	516.6
926	ok	0.07	0.3	9.19e-03	12.7	12.7	12.7	12.7	-11.3	-8.9	-50.9	-5052.1	-217.3	-923.0
927	ok	0.07	2.49e-02	2.21e-03	12.7	12.7	12.7	12.7	7.2	10.0	1.5	-276.6	-114.3	92.8
928	ok	0.07	0.3	1.57e-02	12.7	12.7	12.7	12.7	-35.9	-41.7	65.1	-4726.8	-675.2	1135.0
929	ok	0.07	8.55e-02	2.22e-03	12.7	12.7	12.7	12.7	8.1	11.7	-24.6	-1027.8	59.4	-892.6
930	ok	0.07	3.93e-02	9.26e-04	12.7	12.7	12.7	12.7	-4.9	-3.3	-1.9	310.1	-79.6	-487.8
931	ok	0.07	6.73e-02	1.02e-03	12.7	12.7	12.7	12.7	-6.7	-0.9	-0.1	1097.8	-61.2	-364.8
932	ok	0.07	8.74e-02	1.06e-03	12.7	12.7	12.7	12.7	-6.9	-0.2	-4.02e-02	1529.9	-53.8	-242.4
933	ok	0.07	9.66e-02	1.03e-03	12.7	12.7	12.7	12.7	-6.8	-9.59e-02	-7.38e-02	1725.7	-51.4	-116.2
934	ok	0.07	9.70e-02	9.96e-04	12.7	12.7	12.7	12.7	-6.6	-0.1	0.1	1739.1	-51.3	49.7
935	ok	0.07	8.90e-02	9.56e-04	12.7	12.7	12.7	12.7	-6.3	-0.3	6.44e-02	1578.6	-52.2	173.0
936	ok	0.07	7.08e-02	8.53e-04	12.7	12.7	12.7	12.7	-5.7	-1.1	0.1	1204.8	-59.4	291.4
937	ok	0.07	4.01e-02	8.78e-04	12.7	12.7	12.7	12.7	-3.5	-5.2	1.2	515.3	-93.8	405.2
938	ok	0.07	6.81e-02	3.02e-03	12.7	12.7	12.7	12.7	6.6	-10.0	16.4	-833.7	-198.3	620.2
939	ok	0.07	0.2	5.64e-03	12.7	12.7	12.7	12.7	-1.9	0.6	-36.8	-3538.8	-68.1	-628.5
940	ok	0.07	0.2	1.05e-02	12.7	12.7	12.7	12.7	-22.2	-26.2	45.6	-3241.5	-428.7	819.0
941	ok	0.07	5.54e-02	1.94e-03	12.7	12.7	12.7	12.7	4.6	5.9	-18.1	-401.1	-16.8	-629.0
942	ok	0.07	4.38e-02	9.77e-04	12.7	12.7	12.7	12.7	-5.9	-2.9	-1.5	671.0	-80.8	-308.6
943	ok	0.07	7.04e-02	1.17e-03	12.7	12.7	12.7	12.7	-7.8	-0.8	-0.2	1234.9	-65.2	-180.5
944	ok	0.07	8.09e-02	1.23e-03	12.7	12.7	12.7	12.7	-8.1	-0.3	-0.1	1446.6	-61.6	-52.1
945	ok	0.07	7.69e-02	1.16e-03	12.7	12.7	12.7	12.7	-7.7	-0.5	0.3	1365.6	-63.1	130.8
946	ok	0.07	5.75e-02	8.64e-04	12.7	12.7	12.7	12.7	-5.1	-0.6	1.8	963.7	-63.3	267.6
947	ok	0.07	6.79e-02	1.07e-03	12.7	12.7	12.7	12.7	9.0	19.6	18.0	179.6	141.7	638.4
948	ok	0.07	0.1	1.16e-02	12.7	12.7	12.7	12.7	-19.2	-45.4	-42.7	-1832.5	-676.0	-668.9
949	ok	0.07	6.62e-02	1.51e-03	12.7	12.7	12.7	12.7	-4.5	-3.8	3.0	900.6	-136.1	125.0
950	ok	0.07	0.2	9.55e-03	12.7	12.7	12.7	12.7	-5.6	-29.8	44.1	-2815.6	-459.6	687.9
951	ok	0.07	6.41e-02	1.46e-03	12.7	12.7	12.7	12.7	12.9	8.6	-20.3	-339.4	12.4	-746.5
952	ok	0.07	5.02e-02	7.81e-04	12.7	12.7	12.7	12.7	-2.7	-3.0	-1.8	691.5	-73.7	-401.5
953	ok	0.07	7.47e-02	8.88e-04	12.7	12.7	12.7	12.7	-5.9	-0.9	-0.2	1281.8	-55.9	-280.4
954	ok	0.07	8.97e-02	1.03e-03	12.7	12.7	12.7	12.7	-6.8	-0.2	-7.62e-02	1592.2	-50.0	-163.1
955	ok	0.07	9.53e-02	1.08e-03	12.7	12.7	12.7	12.7	-7.1	-0.1	-0.1	1709.0	-49.1	-43.3
956	ok	0.07	9.32e-02	1.09e-03	12.7	12.7	12.7	12.7	-7.3	-0.2	7.18e-02	1664.8	-49.5	115.3
957	ok	0.07	8.26e-02	1.05e-03	12.7	12.7	12.7	12.7	-7.0	-0.5	0.2	1443.9	-53.2	234.2
958	ok	0.07	6.11e-02	8.93e-04	12.7	12.7	12.7	12.7	-4.9	-1.0	1.7	981.7	-58.5	361.1
959	ok	0.07	7.17e-02	1.16e-03	12.7	12.7	12.7	12.7	8.6	17.8	18.6	175.7	123.5	726.8
960	ok	0.07	0.1	1.12e-02	12.7	12.7	12.7	12.7	-16.8	-42.9	-42.4	-1793.8	-638.6	-585.1
961	ok	0.07	5.04e-02	1.69e-03	12.7	12.7	12.7	12.7	6.85e-02	5.0	-0.4	155.7	-162.9	178.4
962	ok	0.07	0.2	8.73e-03	12.7	12.7	12.7	12.7	-4.9	-28.9	39.3	-2599.1	-448.5	696.3
963	ok	0.07	5.67e-02	1.00e-03	12.7	12.7	12.7	12.7	13.1	9.4	-17.5	-249.8	21.3	-586.8
964	ok	0.07	4.37e-02	6.21e-04	12.7	12.7	12.7	12.7	-1.9	-2.4	-1.9	698.1	-77.2	-270.3
965	ok	0.07	6.59e-02	8.41e-04	12.7	12.7	12.7	12.7	-5.6	-0.8	-0.3	1162.2	-66.5	-143.1
966	ok	0.07	6.98e-02	9.58e-04	12.7	12.7	12.7	12.7	-6.4	-0.7	0.2	1247.0	-65.9	37.5
967	ok	0.07	5.59e-02	8.75e-04	12.7	12.7	12.7	12.7	-5.6	-2.3	0.9	973.5	-78.3	162.6
968	ok	0.07	6.24e-02	1.83e-03	12.7	12.7	12.7	12.7	1.0	0.7	11.1	228.5	-79.6	387.2
969	ok	0.07	0.1	5.32e-03	12.7	12.7	12.7	12.7	-9.5	-11.1	-25.1	-1690.4	-196.8	-466.3
970	ok	0.07	0.1	3.04e-03	12.7	12.7	12.7	12.7	0.8	3.3	19.9	-1957.7	1.0	392.1
971	ok	0.07	3.44e-02	2.02e-03	12.7	12.7	12.7	12.7	2.2	-7.6	-9.6	-129.5	-177.0	-332.7
972	ok	0.07	4.44e-02	7.18e-04	12.7	12.7	12.7	12.7	-4.3	-3.4	-0.8	755.1	-85.9	-184.7
973	ok	0.07	5.86e-02	8.79e-04	12.7	12.7	12.7	12.7	-5.7	-0.5	-0.2	1042.1	-62.7	-73.6
974	ok	0.07	0.1	3.14e-03	12.7	12.7	12.7	12.7	9.3	-6.9	20.5	-1534.9	-163.5	773.7
975	ok	0.07	7.72e-02	1.16e-02	12.7	12.7	12.7	12.7	-70.8	-12.2	-20.0	-1239.8	347.6	-403.9
976	ok	0.07	9.81e-02	5.61e-03	12.7	12.7	12.7	12.7	4.9	-19.0	-11.4	-1620.4	910.4	406.4
977	ok	0.07	0.2	5.27e-03	12.7	12.7	12.7	12.7	-31.2	1.2	11.6	-3712.5	1103.0	562.3
978	ok	0.07	0.2	8.42e-03	12.7	12.7	12.7	12.7	20.7	-25.8	19.9	-2760.0	1327.6	-647.7
979	ok	0.07	0.2	9.09e-03	12.7	12.7	12.7	12.7	36.9	-27.4	21.3	-3861.8	1659.3	-743.1
980	ok	0.07	0.2	3.21e-03	12.7	12.7	12.7	12.7	-18.7	4.3	4.8	-3644.5	1184.1	565.0
981	ok	0.07	3.75e-02	5.26e-03	12.7	12.7	12.7	12.7	-32.6	-6.2	8.2	-580.3	236.2	200.3
982	ok	0.07	4.30e-02	2.72e-03	12.7	12.7	12.7	12.7	5.8	5.4	-2.5	59.4	-309.0	500.1
983	ok	0.07	7.98e-02	1.67e-03	12.7	12.7	12.7	12.7	-4.2	-2.8	7.6	1139.0	-135.8	435.9
984	ok	0.07	9.41e-02	1.37e-03	12.7	12.7	12.7	12.7	-9.1	-1.8	0.2	1654.1	-68.3	239.3

985	ok	0.07	0.1	1.23e-03	12.7	12.7	12.7	12.7	-8.1	-0.4	1.73e-02	1866.9	-51.6	113.1
986	ok	0.07	0.1	1.14e-03	12.7	12.7	12.7	12.7	-7.5	-5.68e-02	-0.1	1905.4	-48.7	-46.6
987	ok	0.07	0.1	1.10e-03	12.7	12.7	12.7	12.7	-7.3	-8.62e-02	-7.80e-02	1797.5	-49.1	-168.8
988	ok	0.07	8.77e-02	1.08e-03	12.7	12.7	12.7	12.7	-7.1	-0.3	-4.17e-02	1519.8	-52.4	-291.1
989	ok	0.07	6.39e-02	1.02e-03	12.7	12.7	12.7	12.7	-6.8	-1.1	-0.2	1004.6	-61.8	-408.0
990	ok	0.07	3.23e-02	9.09e-04	12.7	12.7	12.7	12.7	-4.6	-3.9	-1.8	104.1	-91.7	-512.8
991	ok	0.07	0.1	2.30e-03	12.7	12.7	12.7	12.7	16.0	-4.3	-18.6	-1532.5	-129.1	-742.6
992	ok	0.07	0.3	9.54e-03	12.7	12.7	12.7	12.7	-11.9	-11.8	51.5	-5031.1	-238.0	928.1
993	ok	0.07	0.3	1.65e-02	12.7	12.7	12.7	12.7	-38.7	-46.6	-67.0	-4758.6	-719.3	-1156.6
994	ok	0.07	8.32e-02	1.22e-03	12.7	12.7	12.7	12.7	14.5	15.4	23.0	-1027.6	105.6	862.2
995	ok	0.07	3.91e-02	1.13e-03	12.7	12.7	12.7	12.7	-6.9	-1.3	2.0	296.6	-70.2	485.1
996	ok	0.07	6.72e-02	1.18e-03	12.7	12.7	12.7	12.7	-7.8	-0.8	0.2	1095.3	-61.1	366.8
997	ok	0.07	8.74e-02	1.13e-03	12.7	12.7	12.7	12.7	-7.5	-0.2	4.63e-02	1529.7	-54.3	243.8
998	ok	0.07	9.66e-02	1.08e-03	12.7	12.7	12.7	12.7	-7.1	-9.76e-02	8.02e-02	1725.9	-51.7	117.2
999	ok	0.07	9.70e-02	1.04e-03	12.7	12.7	12.7	12.7	-6.9	-0.1	-0.1	1739.3	-51.6	-49.9
1000	ok	0.07	8.90e-02	1.01e-03	12.7	12.7	12.7	12.7	-6.7	-0.3	-7.08e-02	1578.2	-52.6	-173.6
1001	ok	0.07	7.08e-02	9.56e-04	12.7	12.7	12.7	12.7	-6.3	-1.0	-0.2	1202.3	-59.5	-292.2
1002	ok	0.07	3.96e-02	8.38e-04	12.7	12.7	12.7	12.7	-4.6	-3.8	-1.3	503.6	-88.4	-402.0
1003	ok	0.07	6.61e-02	2.37e-03	12.7	12.7	12.7	12.7	12.0	-7.8	-14.9	-828.5	-171.1	-597.6
1004	ok	0.07	0.2	6.02e-03	12.7	12.7	12.7	12.7	-3.2	-1.8	37.4	-3525.6	-86.5	636.6
1005	ok	0.07	0.2	1.11e-02	12.7	12.7	12.7	12.7	-23.6	-29.7	-46.8	-3258.2	-456.5	-833.9
1006	ok	0.07	5.40e-02	1.18e-03	12.7	12.7	12.7	12.7	9.6	8.6	16.9	-401.8	15.3	605.1
1007	ok	0.07	4.34e-02	1.17e-03	12.7	12.7	12.7	12.7	-7.4	-1.4	1.5	662.4	-74.1	305.9
1008	ok	0.07	7.05e-02	1.32e-03	12.7	12.7	12.7	12.7	-8.8	-0.7	0.2	1236.0	-65.1	180.8
1009	ok	0.07	8.11e-02	1.36e-03	12.7	12.7	12.7	12.7	-9.0	-0.2	0.2	1451.1	-62.1	51.3
1010	ok	0.07	7.74e-02	1.38e-03	12.7	12.7	12.7	12.7	-9.1	-0.4	-0.2	1372.2	-63.2	-134.5
1011	ok	0.07	5.81e-02	1.26e-03	12.7	12.7	12.7	12.7	-8.1	0.4	-1.5	969.4	-58.9	-271.0
1012	ok	0.07	6.61e-02	9.48e-04	12.7	12.7	12.7	12.7	10.6	19.9	-17.8	182.8	145.0	-622.6
1013	ok	0.07	0.1	1.17e-02	12.7	12.7	12.7	12.7	-18.6	-46.1	43.4	-1889.9	-669.3	677.9
1014	ok	0.07	4.51e-02	1.80e-03	12.7	12.7	12.7	12.7	6.6	9.1	-0.4	621.6	86.0	-133.3
1015	ok	0.07	0.2	1.01e-02	12.7	12.7	12.7	12.7	-8.0	-32.0	-45.3	-2876.7	-479.6	-699.3
1016	ok	0.07	6.30e-02	1.09e-03	12.7	12.7	12.7	12.7	16.5	10.2	19.3	-335.1	38.1	725.2
1017	ok	0.07	4.90e-02	9.86e-04	12.7	12.7	12.7	12.7	-5.5	-1.4	1.6	691.4	-66.7	403.8
1018	ok	0.07	7.51e-02	1.10e-03	12.7	12.7	12.7	12.7	-7.3	-0.7	0.2	1287.6	-56.0	284.6
1019	ok	0.07	9.00e-02	1.13e-03	12.7	12.7	12.7	12.7	-7.5	-0.2	7.15e-02	1598.5	-50.6	165.5
1020	ok	0.07	9.57e-02	1.14e-03	12.7	12.7	12.7	12.7	-7.6	-0.1	0.1	1715.4	-49.5	44.3
1021	ok	0.07	9.37e-02	1.17e-03	12.7	12.7	12.7	12.7	-7.8	-0.2	-7.31e-02	1671.8	-49.9	-116.3
1022	ok	0.07	8.31e-02	1.21e-03	12.7	12.7	12.7	12.7	-8.1	-0.4	-0.2	1451.9	-53.1	-237.1
1023	ok	0.07	6.17e-02	1.16e-03	12.7	12.7	12.7	12.7	-7.4	0.2	-1.4	988.8	-52.7	-363.5
1024	ok	0.07	7.08e-02	9.96e-04	12.7	12.7	12.7	12.7	10.7	18.9	-18.3	189.0	140.0	-712.2
1025	ok	0.07	0.1	1.17e-02	12.7	12.7	12.7	12.7	-18.6	-44.9	44.1	-1853.1	-656.9	602.5
1026	ok	0.07	0.2	8.80e-03	12.7	12.7	12.7	12.7	-4.3	-29.6	-39.4	-2651.3	-444.1	-698.3
1027	ok	0.07	5.46e-02	8.16e-04	12.7	12.7	12.7	12.7	16.0	10.1	16.7	-257.5	33.1	565.1
1028	ok	0.07	4.39e-02	8.77e-04	12.7	12.7	12.7	12.7	-5.3	-1.0	1.6	697.1	-71.9	273.2
1029	ok	0.07	6.63e-02	1.11e-03	12.7	12.7	12.7	12.7	-7.4	-0.7	0.3	1166.7	-66.6	147.7
1030	ok	0.07	7.00e-02	1.14e-03	12.7	12.7	12.7	12.7	-7.5	-0.5	-0.2	1250.2	-66.1	-35.9
1031	ok	0.07	5.57e-02	1.04e-03	12.7	12.7	12.7	12.7	-6.8	-1.4	-0.9	970.7	-74.1	-159.7
1032	ok	0.07	6.04e-02	1.33e-03	12.7	12.7	12.7	12.7	15.4	5.6	-11.0	537.6	42.6	-288.2
1033	ok	0.07	0.1	5.80e-03	12.7	12.7	12.7	12.7	-11.3	-13.5	26.1	-1703.2	-219.4	479.9
1034	ok	0.07	0.1	2.84e-03	12.7	12.7	12.7	12.7	0.9	2.2	-20.1	-1941.1	-6.0	-395.3
1035	ok	0.07	3.20e-02	1.66e-03	12.7	12.7	12.7	12.7	5.6	-6.5	8.7	-128.0	-162.9	319.4
1036	ok	0.07	4.41e-02	8.07e-04	12.7	12.7	12.7	12.7	-5.1	-2.6	0.9	749.0	-83.1	182.8
1037	ok	0.07	5.86e-02	9.66e-04	12.7	12.7	12.7	12.7	-6.3	-0.5	0.2	1042.2	-63.5	74.0
1038	ok	0.07	6.51e-02	1.13e-03	12.7	12.7	12.7	12.7	4.4	-0.1	-4.8	987.9	-16.4	-175.5
1039	ok	0.07	6.71e-02	3.24e-03	12.7	12.7	12.7	12.7	-19.8	33.0	-3.1	198.1	-614.6	498.6
1040	ok	0.07	5.32e-02	2.98e-03	12.7	12.7	12.7	12.7	-19.4	16.3	3.9	89.1	-657.9	-313.4
1041	ok	0.07	9.62e-02	9.51e-04	12.7	12.7	12.7	12.7	24.9	55.4	20.6	384.8	660.9	349.5
1042	ok	0.07	7.68e-02	2.18e-03	12.7	12.7	12.7	12.7	-14.5	7.4	-0.1	-256.5	1203.1	236.5
1043	ok	0.07	9.62e-02	3.62e-04	12.7	12.7	12.7	12.7	-2.3	6.5	-0.7	-50.8	1685.3	243.9
1044	ok	0.07	0.1	4.54e-05	12.7	12.7	12.7	12.7	-0.3	6.7	-0.2	-26.9	1852.7	175.4
1045	ok	0.07	0.1	2.36e-05	12.7	12.7	12.7	12.7	-3.88e-02	6.3	-2.79e-02	-21.4	1917.9	108.4
1046	ok	0.07	0.1	2.16e-05	12.7	12.7	12.7	12.7	-2.33e-02	5.9	1.40e-02	-19.5	1937.5	45.5
1047	ok	0.07	0.1	2.21e-05	12.7	12.7	12.7	12.7	-3.08e-02	5.8	-1.85e-02	-19.5	1939.3	-23.0
1048	ok	0.07	0.1	2.59e-05	12.7	12.7	12.7	12.7	-4.43e-02	5.9	2.42e-02	-20.5	1928.5	-84.9
1049	ok	0.07	0.1	4.52e-05	12.7	12.7	12.7	12.7	-0.3	6.1	0.1	-25.5	1886.0	-151.2
1050	ok	0.07	0.1	3.59e-04	12.7	12.7	12.7	12.7	-2.3	5.7	0.7	-50.2	1767.1	-221.9
1051	ok	0.07	8.45e-02	2.38e-03	12.7	12.7	12.7	12.7	-15.7	5.1	1.8	-263.6	1368.2	-225.5
1052	ok	0.07	0.1	1.43e-03	12.7	12.7	12.7	12.7	27.5	45.4	-19.9	410.1	1094.8	-458.5
1053	ok	0.07	2.67e-02	2.82e-03	12.7	12.7	12.7	12.7	-13.0	6.6	-7.9	-431.5	-209.2	-36.0
1054	ok	0.07	2.90e-02	3.03e-03	12.7	12.7	12.7	12.7	-15.8	10.2	6.9	-479.8	-150.0	13.9
1055	ok	0.07	4.48e-02	2.82e-03	12.7	12.7	12.7	12.7	5.8	1.5	11.6	-159.6	-385.3	-242.5
1056	ok	0.07	3.66e-02	2.45e-03	12.7	12.7	12.7	12.7	-11.7	8.1	0.6	86.5	-268.4	168.2
1057	ok	0.07	7.31e-02	1.99e-03	12.7	12.7	12.7	12.7	16.7	34.8	-14.6	253.4	656.0	-225.8
1058	ok	0.07	6.72e-02	1.39e-03	12.7	12.7	12.7	12.7	-9.1	5.2	1.2	-169.4	1136.3	-95.3
1059	ok	0.07	8.71e-02	1.94e-04	12.7	12.7	12.7	12.7	-1.2	4.2	0.5	-31.1	1550.7	-114.5
1060	ok	0.07	9.63e-02	4.31e-05	12.7	12.7	12.7	12.7	-0.1	3.8	0.1	-14.3	1721.1	-76.5

1061	ok	0.07	0.1	6.42e-05	12.7	12.7	12.7	12.7	3.33e-04	3.3	4.59e-02	-9.4	1797.7	-43.7
1062	ok	0.07	0.1	6.45e-05	12.7	12.7	12.7	12.7	5.91e-03	3.0	1.53e-02	-7.6	1826.1	-16.8
1063	ok	0.07	0.1	6.57e-05	12.7	12.7	12.7	12.7	8.38e-04	3.0	-6.61e-03	-7.6	1829.5	8.2
1064	ok	0.07	0.1	7.95e-05	12.7	12.7	12.7	12.7	-3.19e-03	3.1	-3.98e-02	-8.6	1812.3	33.6
1065	ok	0.07	9.83e-02	7.23e-05	12.7	12.7	12.7	12.7	-0.1	3.4	-0.1	-12.8	1758.6	64.5
1066	ok	0.07	9.15e-02	2.14e-04	12.7	12.7	12.7	12.7	-1.4	3.6	-0.5	-31.0	1632.5	101.6
1067	ok	0.07	7.66e-02	1.72e-03	12.7	12.7	12.7	12.7	-11.0	3.2	-2.6	-189.8	1289.5	82.5
1068	ok	0.07	8.49e-02	2.16e-03	12.7	12.7	12.7	12.7	20.4	31.2	15.9	309.3	1027.4	317.2
1069	ok	0.07	2.26e-02	2.08e-03	12.7	12.7	12.7	12.7	-6.0	3.5	3.8	-269.2	-163.3	6.7
1070	ok	0.07	0.2	7.89e-03	12.7	12.7	12.7	12.7	35.7	-21.4	-14.8	-3912.2	1619.9	740.3

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
								-83.31	-80.09	-83.43	-7467.84	-5948.33	-2338.48
	0.07	0.58	0.05	12.72	12.72	12.72	12.72	112.97	202.71	103.23	1905.43	2242.58	2271.16

Nodo	Stato	Max tau daN/cm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr daN/cm	V sec daN/cm
1	ok	0.0						
3	ok	0.0						
9	ok	0.0						
11	ok	0.0						
12	ok	0.0						
13	ok	0.0						
15	ok	0.0						
17	ok	0.0						
21	ok	0.0						
22	ok	0.0						
23	ok	0.0						
24	ok	0.10						
25	ok	0.0						
27	ok	0.0						
29	ok	0.0						
30	ok	0.0						
31	ok	0.0						
32	ok	0.29						
33	ok	0.0						
34	ok	0.16						
35	ok	0.22						
36	ok	0.10						
37	ok	0.20						
38	ok	0.07						
39	ok	0.14						
40	ok	0.06						
41	ok	0.09						
42	ok	0.05						
43	ok	0.08						
44	ok	0.07						
45	ok	0.13						
46	ok	0.09						
47	ok	0.18						
48	ok	0.13						
49	ok	0.22						
50	ok	0.21						
51	ok	0.40						
52	ok	0.0						
53	ok	0.0						
54	ok	0.0						
55	ok	0.60						
56	ok	0.51						
57	ok	0.22						
58	ok	0.12						
59	ok	0.08						
60	ok	0.05						
61	ok	0.03						
62	ok	0.03						
63	ok	0.04						
64	ok	0.06						
65	ok	0.10						
66	ok	0.20						
67	ok	0.29						
68	ok	0.62						
69	ok	0.30						
70	ok	0.24						
71	ok	0.15						
72	ok	0.09						

73	ok	0.05
74	ok	0.03
75	ok	0.02
76	ok	0.02
77	ok	0.03
78	ok	0.04
79	ok	0.07
80	ok	0.12
81	ok	0.19
82	ok	0.28
83	ok	0.20
84	ok	0.15
85	ok	0.09
86	ok	0.06
87	ok	0.04
88	ok	0.03
89	ok	0.02
90	ok	0.02
91	ok	0.03
92	ok	0.03
93	ok	0.04
94	ok	0.07
95	ok	0.12
96	ok	0.20
97	ok	0.18
98	ok	0.12
99	ok	0.08
100	ok	0.06
101	ok	0.05
102	ok	0.03
103	ok	0.02
104	ok	0.02
105	ok	0.03
106	ok	0.04
107	ok	0.05
108	ok	0.07
109	ok	0.11
110	ok	0.18
111	ok	0.22
112	ok	0.17
113	ok	0.13
114	ok	0.09
115	ok	0.06
116	ok	0.04
117	ok	0.03
118	ok	0.03
119	ok	0.03
120	ok	0.05
121	ok	0.08
122	ok	0.11
123	ok	0.15
124	ok	0.22
125	ok	0.34
126	ok	0.26
127	ok	0.19
128	ok	0.14
129	ok	0.09
130	ok	0.05
131	ok	0.03
132	ok	0.03
133	ok	0.04
134	ok	0.07
135	ok	0.11
136	ok	0.17
137	ok	0.23
138	ok	0.32
139	ok	0.51
140	ok	0.39
141	ok	0.29
142	ok	0.19
143	ok	0.11
144	ok	0.06
145	ok	0.04
146	ok	0.03
147	ok	0.05
148	ok	0.09

149	ok	0.15
150	ok	0.25
151	ok	0.36
152	ok	0.49
153	ok	0.77
154	ok	0.63
155	ok	0.44
156	ok	0.26
157	ok	0.14
158	ok	0.07
159	ok	0.04
160	ok	0.04
161	ok	0.06
162	ok	0.11
163	ok	0.21
164	ok	0.35
165	ok	0.55
166	ok	0.74
167	ok	0.0
168	ok	0.0
169	ok	0.71
170	ok	0.34
171	ok	0.18
172	ok	0.09
173	ok	0.05
174	ok	0.04
175	ok	0.07
176	ok	0.13
177	ok	0.26
178	ok	0.56
179	ok	0.20
180	ok	0.0
181	ok	0.0
182	ok	0.0
183	ok	0.38
184	ok	0.21
185	ok	0.10
186	ok	0.05
187	ok	0.04
188	ok	0.08
189	ok	0.16
190	ok	0.31
191	ok	0.82
192	ok	0.0
193	ok	0.0
194	ok	0.0
195	ok	0.0
196	ok	0.34
197	ok	0.19
198	ok	0.09
199	ok	0.05
200	ok	0.04
201	ok	0.07
202	ok	0.14
203	ok	0.26
204	ok	0.75
205	ok	0.0
206	ok	0.0
207	ok	0.0
208	ok	0.0
209	ok	0.0
210	ok	0.36
211	ok	0.19
212	ok	0.10
213	ok	0.05
214	ok	0.04
215	ok	0.07
216	ok	0.15
217	ok	0.29
218	ok	0.73
219	ok	0.0
220	ok	0.0
221	ok	0.0
222	ok	0.0
223	ok	0.61
224	ok	0.31

225	ok	0.17
226	ok	0.08
227	ok	0.05
228	ok	0.04
229	ok	0.06
230	ok	0.13
231	ok	0.25
232	ok	0.51
233	ok	0.96
234	ok	0.0
235	ok	0.71
236	ok	0.58
237	ok	0.40
238	ok	0.23
239	ok	0.13
240	ok	0.07
241	ok	0.04
242	ok	0.03
243	ok	0.05
244	ok	0.10
245	ok	0.19
246	ok	0.32
247	ok	0.51
248	ok	0.68
249	ok	0.47
250	ok	0.36
251	ok	0.26
252	ok	0.17
253	ok	0.10
254	ok	0.05
255	ok	0.03
256	ok	0.03
257	ok	0.04
258	ok	0.08
259	ok	0.14
260	ok	0.22
261	ok	0.32
262	ok	0.44
263	ok	0.30
264	ok	0.23
265	ok	0.17
266	ok	0.11
267	ok	0.07
268	ok	0.04
269	ok	0.02
270	ok	0.02
271	ok	0.03
272	ok	0.06
273	ok	0.09
274	ok	0.15
275	ok	0.20
276	ok	0.27
277	ok	0.21
278	ok	0.15
279	ok	0.10
280	ok	0.07
281	ok	0.04
282	ok	0.03
283	ok	0.02
284	ok	0.02
285	ok	0.02
286	ok	0.04
287	ok	0.06
288	ok	0.09
289	ok	0.13
290	ok	0.22
291	ok	0.19
292	ok	0.14
293	ok	0.09
294	ok	0.06
295	ok	0.04
296	ok	0.02
297	ok	0.02
298	ok	0.02
299	ok	0.02
300	ok	0.03

301	ok	0.05
302	ok	0.08
303	ok	0.12
304	ok	0.19
305	ok	0.26
306	ok	0.21
307	ok	0.15
308	ok	0.10
309	ok	0.06
310	ok	0.03
311	ok	0.02
312	ok	0.02
313	ok	0.03
314	ok	0.05
315	ok	0.08
316	ok	0.13
317	ok	0.18
318	ok	0.24
319	ok	0.40
320	ok	0.32
321	ok	0.23
322	ok	0.14
323	ok	0.08
324	ok	0.04
325	ok	0.02
326	ok	0.02
327	ok	0.03
328	ok	0.06
329	ok	0.11
330	ok	0.19
331	ok	0.28
332	ok	0.38
333	ok	0.62
334	ok	0.51
335	ok	0.35
336	ok	0.20
337	ok	0.10
338	ok	0.05
339	ok	0.03
340	ok	0.03
341	ok	0.04
342	ok	0.08
343	ok	0.15
344	ok	0.27
345	ok	0.44
346	ok	0.59
347	ok	0.0
348	ok	0.0
349	ok	0.56
350	ok	0.26
351	ok	0.13
352	ok	0.06
353	ok	0.03
354	ok	0.03
355	ok	0.05
356	ok	0.10
357	ok	0.20
358	ok	0.44
359	ok	0.0
360	ok	0.0
361	ok	0.0
362	ok	0.0
363	ok	0.0
364	ok	0.30
365	ok	0.16
366	ok	0.08
367	ok	0.04
368	ok	0.03
369	ok	0.06
370	ok	0.12
371	ok	0.24
372	ok	0.64
373	ok	0.0
374	ok	0.0
375	ok	0.0
376	ok	0.0

377	ok	0.26
378	ok	0.14
379	ok	0.07
380	ok	0.04
381	ok	0.03
382	ok	0.05
383	ok	0.11
384	ok	0.20
385	ok	0.59
386	ok	0.0
387	ok	0.0
388	ok	0.0
389	ok	0.0
390	ok	0.29
391	ok	0.15
392	ok	0.07
393	ok	0.04
394	ok	0.03
395	ok	0.06
396	ok	0.11
397	ok	0.23
398	ok	0.56
399	ok	0.0
400	ok	0.0
401	ok	0.0
402	ok	0.0
403	ok	0.50
404	ok	0.26
405	ok	0.13
406	ok	0.07
407	ok	0.04
408	ok	0.03
409	ok	0.05
410	ok	0.10
411	ok	0.20
412	ok	0.42
413	ok	0.75
414	ok	0.0
415	ok	0.56
416	ok	0.48
417	ok	0.33
418	ok	0.19
419	ok	0.10
420	ok	0.05
421	ok	0.03
422	ok	0.03
423	ok	0.04
424	ok	0.08
425	ok	0.15
426	ok	0.26
427	ok	0.41
428	ok	0.53
429	ok	0.34
430	ok	0.29
431	ok	0.22
432	ok	0.13
433	ok	0.07
434	ok	0.04
435	ok	0.03
436	ok	0.03
437	ok	0.03
438	ok	0.06
439	ok	0.11
440	ok	0.18
441	ok	0.25
442	ok	0.31
443	ok	0.23
444	ok	0.18
445	ok	0.14
446	ok	0.09
447	ok	0.05
448	ok	0.03
449	ok	0.02
450	ok	0.02
451	ok	0.03
452	ok	0.04

453	ok	0.07
454	ok	0.12
455	ok	0.17
456	ok	0.23
457	ok	0.26
458	ok	0.24
459	ok	0.18
460	ok	0.11
461	ok	0.06
462	ok	0.04
463	ok	0.03
464	ok	0.02
465	ok	0.03
466	ok	0.05
467	ok	0.09
468	ok	0.15
469	ok	0.21
470	ok	0.24
471	ok	0.45
472	ok	0.41
473	ok	0.28
474	ok	0.16
475	ok	0.09
476	ok	0.05
477	ok	0.03
478	ok	0.03
479	ok	0.04
480	ok	0.07
481	ok	0.13
482	ok	0.22
483	ok	0.35
484	ok	0.43
485	ok	0.94
486	ok	1.07
487	ok	0.37
488	ok	0.23
489	ok	0.12
490	ok	0.06
491	ok	0.04
492	ok	0.03
493	ok	0.05
494	ok	0.09
495	ok	0.18
496	ok	0.34
497	ok	0.76
498	ok	0.89
499	ok	0.0
500	ok	0.0
501	ok	0.58
502	ok	0.28
503	ok	0.15
504	ok	0.08
505	ok	0.04
506	ok	0.04
507	ok	0.06
508	ok	0.11
509	ok	0.21
510	ok	0.50
511	ok	0.0
512	ok	0.0
513	ok	0.19
514	ok	0.0
515	ok	0.0
516	ok	0.31
517	ok	0.16
518	ok	0.08
519	ok	0.04
520	ok	0.04
521	ok	0.06
522	ok	0.12
523	ok	0.23
524	ok	0.32
525	ok	0.0
526	ok	0.29
527	ok	0.44
528	ok	0.0

529	ok	0.0
530	ok	0.26
531	ok	0.15
532	ok	0.09
533	ok	0.06
534	ok	0.05
535	ok	0.04
536	ok	0.05
537	ok	0.07
538	ok	0.12
539	ok	0.0
540	ok	0.0
541	ok	0.0
542	ok	0.28
543	ok	0.14
544	ok	0.07
545	ok	0.04
546	ok	0.03
547	ok	0.06
548	ok	0.10
549	ok	0.21
550	ok	0.64
551	ok	0.0
552	ok	0.0
553	ok	1.12
554	ok	1.07
555	ok	0.44
556	ok	0.25
557	ok	0.12
558	ok	0.06
559	ok	0.04
560	ok	0.03
561	ok	0.05
562	ok	0.09
563	ok	0.19
564	ok	0.40
565	ok	0.79
566	ok	1.00
567	ok	0.56
568	ok	0.46
569	ok	0.31
570	ok	0.18
571	ok	0.09
572	ok	0.05
573	ok	0.03
574	ok	0.03
575	ok	0.04
576	ok	0.07
577	ok	0.14
578	ok	0.25
579	ok	0.40
580	ok	0.53
581	ok	0.36
582	ok	0.28
583	ok	0.20
584	ok	0.13
585	ok	0.07
586	ok	0.04
587	ok	0.02
588	ok	0.02
589	ok	0.03
590	ok	0.06
591	ok	0.10
592	ok	0.17
593	ok	0.25
594	ok	0.34
595	ok	0.23
596	ok	0.18
597	ok	0.13
598	ok	0.09
599	ok	0.05
600	ok	0.03
601	ok	0.02
602	ok	0.02
603	ok	0.02
604	ok	0.04

605	ok	0.07
606	ok	0.11
607	ok	0.15
608	ok	0.22
609	ok	0.18
610	ok	0.13
611	ok	0.08
612	ok	0.05
613	ok	0.03
614	ok	0.02
615	ok	0.02
616	ok	0.02
617	ok	0.02
618	ok	0.03
619	ok	0.04
620	ok	0.06
621	ok	0.11
622	ok	0.18
623	ok	0.20
624	ok	0.15
625	ok	0.10
626	ok	0.07
627	ok	0.04
628	ok	0.02
629	ok	0.02
630	ok	0.02
631	ok	0.02
632	ok	0.03
633	ok	0.06
634	ok	0.09
635	ok	0.13
636	ok	0.20
637	ok	0.30
638	ok	0.24
639	ok	0.16
640	ok	0.10
641	ok	0.06
642	ok	0.03
643	ok	0.02
644	ok	0.02
645	ok	0.02
646	ok	0.05
647	ok	0.08
648	ok	0.14
649	ok	0.20
650	ok	0.28
651	ok	0.46
652	ok	0.39
653	ok	0.26
654	ok	0.14
655	ok	0.08
656	ok	0.04
657	ok	0.03
658	ok	0.02
659	ok	0.03
660	ok	0.06
661	ok	0.11
662	ok	0.21
663	ok	0.33
664	ok	0.45
665	ok	0.90
666	ok	1.04
667	ok	0.35
668	ok	0.21
669	ok	0.11
670	ok	0.05
671	ok	0.03
672	ok	0.03
673	ok	0.04
674	ok	0.08
675	ok	0.16
676	ok	0.32
677	ok	0.70
678	ok	0.87
679	ok	0.0
680	ok	0.0

681	ok	0.53
682	ok	0.26
683	ok	0.14
684	ok	0.07
685	ok	0.04
686	ok	0.03
687	ok	0.05
688	ok	0.10
689	ok	0.20
690	ok	0.49
691	ok	0.0
692	ok	0.0
693	ok	0.0
694	ok	0.0
695	ok	0.0
696	ok	0.30
697	ok	0.16
698	ok	0.08
699	ok	0.04
700	ok	0.03
701	ok	0.06
702	ok	0.12
703	ok	0.23
704	ok	0.32
705	ok	0.0
706	ok	0.0
707	ok	0.0
708	ok	0.0
709	ok	0.17
710	ok	0.09
711	ok	0.07
712	ok	0.05
713	ok	0.04
714	ok	0.06
715	ok	0.09
716	ok	0.13
717	ok	0.22
718	ok	0.0
719	ok	0.0
720	ok	0.0
721	ok	0.0
722	ok	0.29
723	ok	0.15
724	ok	0.08
725	ok	0.04
726	ok	0.04
727	ok	0.06
728	ok	0.11
729	ok	0.22
730	ok	0.63
731	ok	0.0
732	ok	0.0
733	ok	1.04
734	ok	1.06
735	ok	0.46
736	ok	0.27
737	ok	0.14
738	ok	0.07
739	ok	0.04
740	ok	0.04
741	ok	0.05
742	ok	0.11
743	ok	0.22
744	ok	0.42
745	ok	0.78
746	ok	0.97
747	ok	0.51
748	ok	0.46
749	ok	0.32
750	ok	0.20
751	ok	0.11
752	ok	0.06
753	ok	0.04
754	ok	0.03
755	ok	0.05
756	ok	0.09

757	ok	0.16
758	ok	0.26
759	ok	0.39
760	ok	0.49
761	ok	0.29
762	ok	0.27
763	ok	0.21
764	ok	0.14
765	ok	0.08
766	ok	0.04
767	ok	0.03
768	ok	0.03
769	ok	0.04
770	ok	0.07
771	ok	0.12
772	ok	0.18
773	ok	0.24
774	ok	0.26
775	ok	0.25
776	ok	0.21
777	ok	0.18
778	ok	0.12
779	ok	0.07
780	ok	0.04
781	ok	0.03
782	ok	0.03
783	ok	0.03
784	ok	0.05
785	ok	0.10
786	ok	0.15
787	ok	0.20
788	ok	0.25
789	ok	0.38
790	ok	0.36
791	ok	0.26
792	ok	0.15
793	ok	0.08
794	ok	0.04
795	ok	0.03
796	ok	0.03
797	ok	0.04
798	ok	0.06
799	ok	0.12
800	ok	0.21
801	ok	0.31
802	ok	0.36
803	ok	0.0
804	ok	0.0
805	ok	0.40
806	ok	0.21
807	ok	0.11
808	ok	0.05
809	ok	0.03
810	ok	0.03
811	ok	0.04
812	ok	0.08
813	ok	0.16
814	ok	0.33
815	ok	0.53
816	ok	0.0
817	ok	0.0
818	ok	0.0
819	ok	0.0
820	ok	0.25
821	ok	0.13
822	ok	0.06
823	ok	0.04
824	ok	0.03
825	ok	0.05
826	ok	0.10
827	ok	0.19
828	ok	0.44
829	ok	0.0
830	ok	0.0
831	ok	0.0
832	ok	0.0

833	ok	0.22
834	ok	0.12
835	ok	0.06
836	ok	0.03
837	ok	0.03
838	ok	0.04
839	ok	0.09
840	ok	0.17
841	ok	0.46
842	ok	0.0
843	ok	0.0
844	ok	0.0
845	ok	0.0
846	ok	0.26
847	ok	0.14
848	ok	0.07
849	ok	0.04
850	ok	0.03
851	ok	0.05
852	ok	0.10
853	ok	0.21
854	ok	0.52
855	ok	0.0
856	ok	0.0
857	ok	0.0
858	ok	0.0
859	ok	0.45
860	ok	0.22
861	ok	0.11
862	ok	0.05
863	ok	0.03
864	ok	0.03
865	ok	0.04
866	ok	0.08
867	ok	0.17
868	ok	0.35
869	ok	0.0
870	ok	0.0
871	ok	0.40
872	ok	0.37
873	ok	0.27
874	ok	0.16
875	ok	0.08
876	ok	0.04
877	ok	0.03
878	ok	0.03
879	ok	0.04
880	ok	0.06
881	ok	0.13
882	ok	0.22
883	ok	0.33
884	ok	0.38
885	ok	0.25
886	ok	0.22
887	ok	0.19
888	ok	0.12
889	ok	0.07
890	ok	0.04
891	ok	0.03
892	ok	0.03
893	ok	0.03
894	ok	0.05
895	ok	0.10
896	ok	0.16
897	ok	0.22
898	ok	0.26
899	ok	0.43
900	ok	0.39
901	ok	0.20
902	ok	0.13
903	ok	0.07
904	ok	0.05
905	ok	0.04
906	ok	0.03
907	ok	0.04
908	ok	0.06

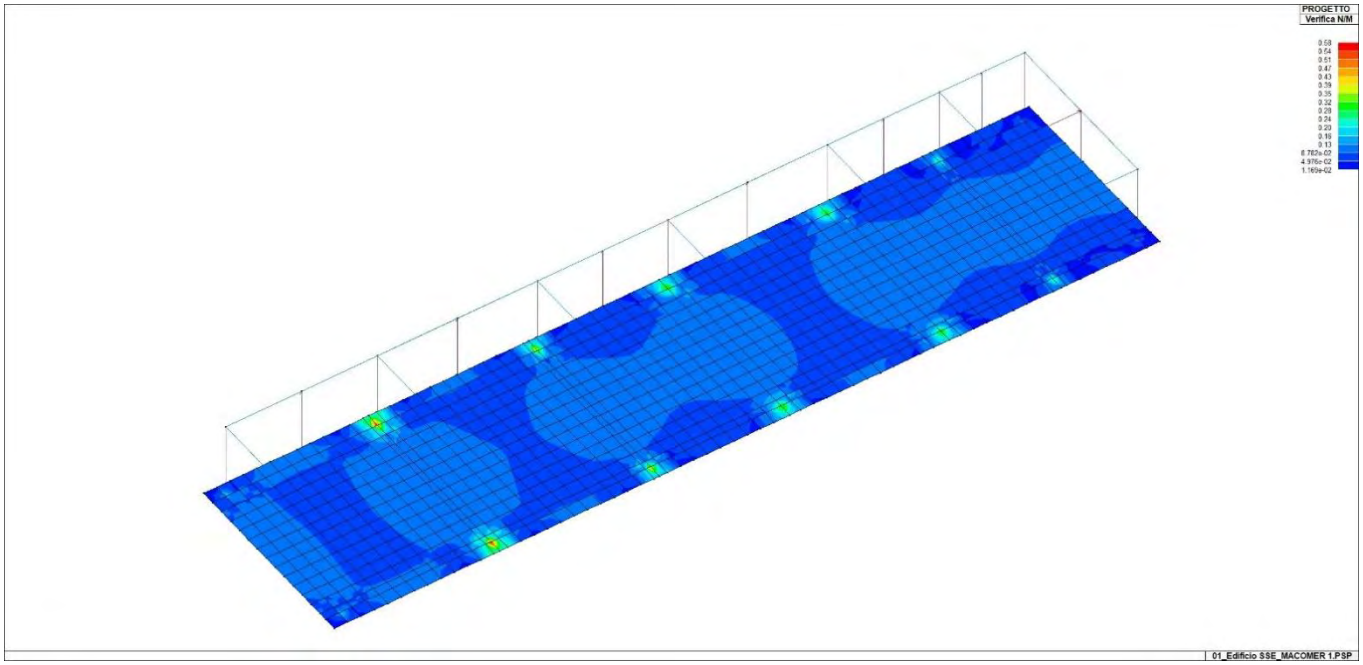
909	ok	0.0
910	ok	0.0
911	ok	0.0
912	ok	0.0
913	ok	0.0
914	ok	0.0
915	ok	0.0
916	ok	0.0
917	ok	0.0
918	ok	1.69
919	ok	1.06
920	ok	0.52
921	ok	0.22
922	ok	0.76
923	ok	1.31
924	ok	1.89
925	ok	2.47
926	ok	0.0
927	ok	0.0
928	ok	0.0
929	ok	2.85
930	ok	2.29
931	ok	1.69
932	ok	1.10
933	ok	0.52
934	ok	0.26
935	ok	0.81
936	ok	1.38
937	ok	1.94
938	ok	0.0
939	ok	0.0
940	ok	0.0
941	ok	2.11
942	ok	1.52
943	ok	0.90
944	ok	0.27
945	ok	0.65
946	ok	1.27
947	ok	1.83
948	ok	0.0
949	ok	0.58
950	ok	0.0
951	ok	2.38
952	ok	1.85
953	ok	1.30
954	ok	0.75
955	ok	0.22
956	ok	0.53
957	ok	1.07
958	ok	1.62
959	ok	2.15
960	ok	0.0
961	ok	0.0
962	ok	0.0
963	ok	1.89
964	ok	1.33
965	ok	0.71
966	ok	0.25
967	ok	0.85
968	ok	1.46
969	ok	0.0
970	ok	0.0
971	ok	0.0
972	ok	0.95
973	ok	0.36
974	ok	0.0
975	ok	0.0
976	ok	0.0
977	ok	0.0
978	ok	0.0
979	ok	0.0
980	ok	0.0
981	ok	0.0
982	ok	0.0
983	ok	1.67
984	ok	1.07

985	ok	0.52
986	ok	0.23
987	ok	0.77
988	ok	1.32
989	ok	1.90
990	ok	2.49
991	ok	0.0
992	ok	0.0
993	ok	0.0
994	ok	2.80
995	ok	2.32
996	ok	1.71
997	ok	1.11
998	ok	0.53
999	ok	0.27
1000	ok	0.82
1001	ok	1.39
1002	ok	1.96
1003	ok	0.0
1004	ok	0.0
1005	ok	0.0
1006	ok	2.08
1007	ok	1.54
1008	ok	0.91
1009	ok	0.28
1010	ok	0.67
1011	ok	1.30
1012	ok	1.87
1013	ok	0.0
1014	ok	0.0
1015	ok	0.0
1016	ok	2.38
1017	ok	1.89
1018	ok	1.32
1019	ok	0.76
1020	ok	0.23
1021	ok	0.54
1022	ok	1.09
1023	ok	1.65
1024	ok	2.17
1025	ok	0.0
1026	ok	0.0
1027	ok	1.91
1028	ok	1.37
1029	ok	0.73
1030	ok	0.26
1031	ok	0.86
1032	ok	1.44
1033	ok	0.0
1034	ok	0.0
1035	ok	0.0
1036	ok	0.97
1037	ok	0.37
1038	ok	0.59
1039	ok	0.0
1040	ok	0.0
1041	ok	0.0
1042	ok	1.52
1043	ok	1.07
1044	ok	0.73
1045	ok	0.44
1046	ok	0.21
1047	ok	0.14
1048	ok	0.35
1049	ok	0.62
1050	ok	0.95
1051	ok	1.43
1052	ok	0.0
1053	ok	0.0
1054	ok	0.0
1055	ok	0.0
1056	ok	0.0
1057	ok	0.0
1058	ok	1.03
1059	ok	0.68
1060	ok	0.44

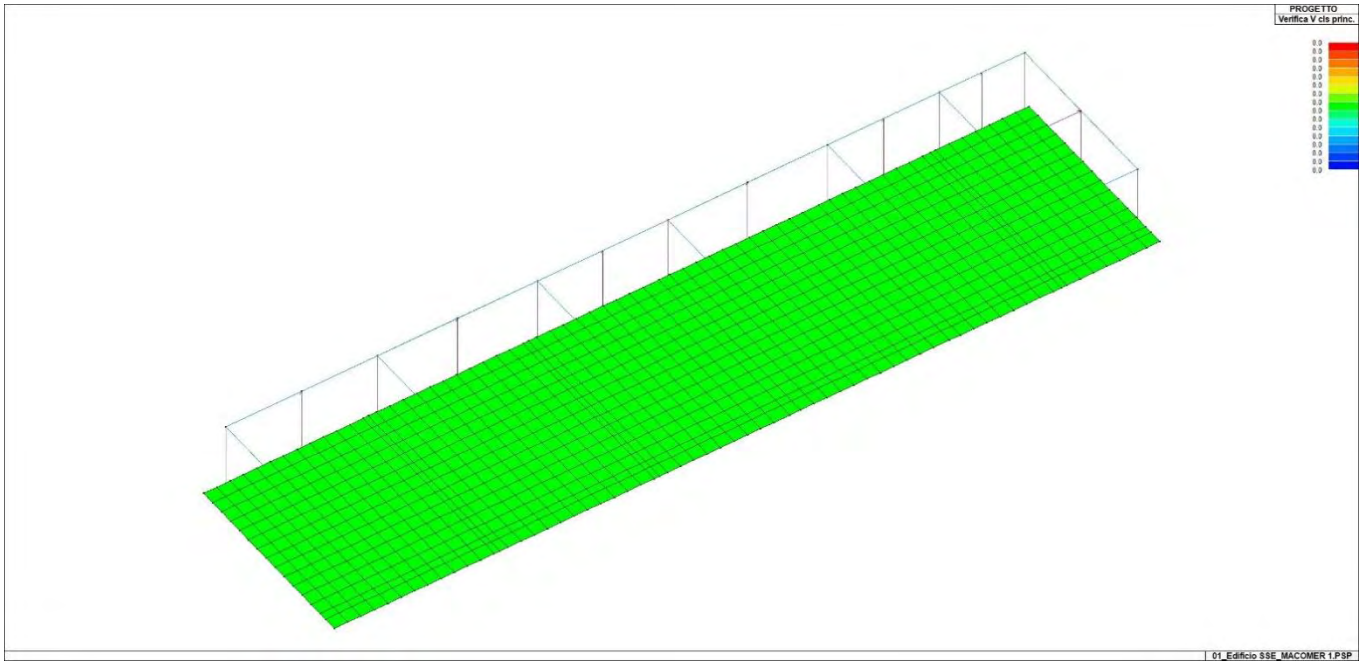
1061	ok	0.28
1062	ok	0.15
1063	ok	0.10
1064	ok	0.23
1065	ok	0.38
1066	ok	0.58
1067	ok	0.93
1068	ok	0.0
1069	ok	0.0
1070	ok	0.0

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	2.85						

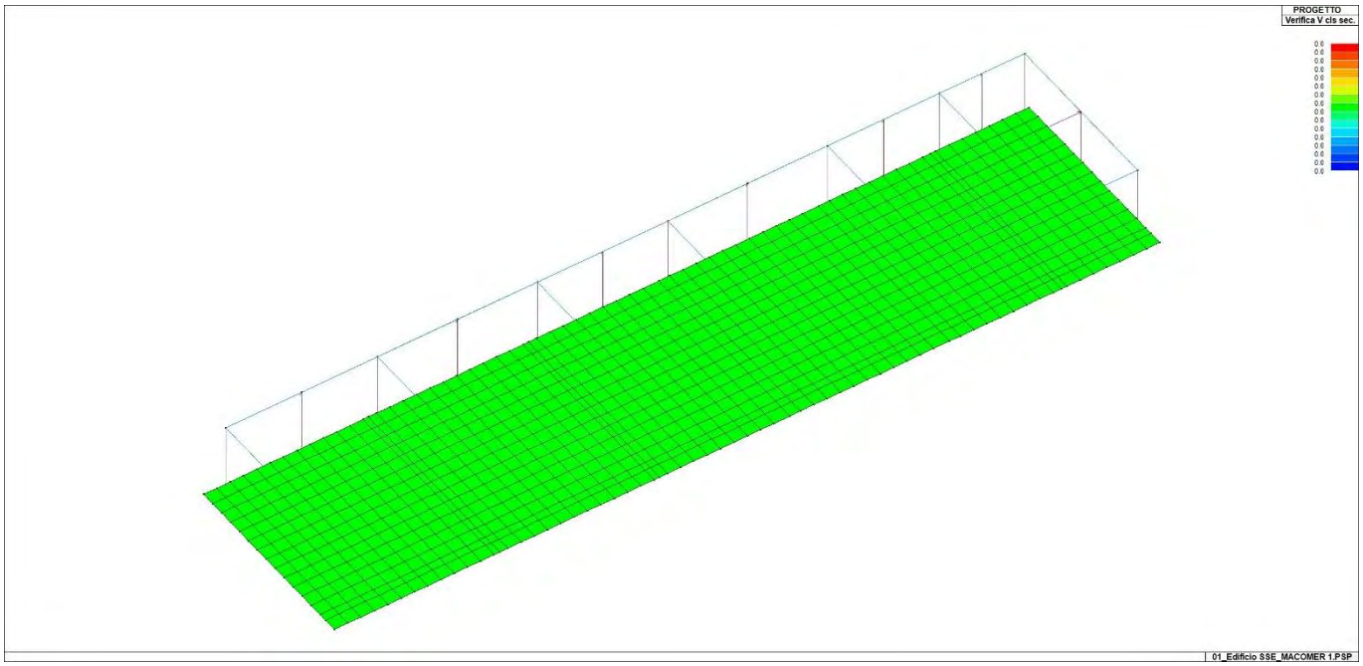
Nodo	Stato	V 6.50	V 6.53	Beta	f. a fon	f. Uout	Aw tot cm2	Asw,min cm2	n. x serie	n.ser 0(R)	n.ser 90	Rif. cmb
1	ok	0.04	0.03	1.14	2.00	0.0	0.0	0.0	0	0	0	2
3	ok	0.04	0.03	1.14	2.00	0.0	0.0	0.0	0	0	0	2
9	ok	0.07	0.05	1.13	2.00	0.0	0.0	0.0	0	0	0	2
11	ok	0.11	0.07	1.16	2.00	0.0	0.0	0.0	0	0	0	2
12	ok	0.11	0.07	1.15	2.00	0.0	0.0	0.0	0	0	0	2
13	ok	0.11	0.07	1.16	2.00	0.0	0.0	0.0	0	0	0	2
15	ok	0.11	0.07	1.15	2.00	0.0	0.0	0.0	0	0	0	2
17	ok	0.07	0.05	1.13	2.00	0.0	0.0	0.0	0	0	0	2
21	ok	0.11	0.07	1.16	2.00	0.0	0.0	0.0	0	0	0	2
22	ok	0.14	0.08	1.15	2.00	0.0	0.0	0.0	0	0	0	2
23	ok	0.11	0.07	1.16	2.00	0.0	0.0	0.0	0	0	0	2
25	ok	0.02	0.02	1.10	2.00	0.0	0.0	0.0	0	0	0	2
27	ok	0.02	0.02	1.10	2.00	0.0	0.0	0.0	0	0	0	2
206	ok	0.14	0.08	1.15	2.00	0.0	0.0	0.0	0	0	0	2



72_PRO_CA_D3_VER_NM



72_PRO_CA_D3_VER_VI



72_PRO_CA_D3_VER_VII

22. STATI LIMITE D' ESERCIZIO

22.1. LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

In tabella vengono riportati i valori di interesse per il controllo degli stati limite d'esercizio.

In particolare vengono riportati, in relazione al tipo di elemento strutturale, i risultati relativi alle tre categorie di combinazione considerate:

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [*normalizzato a 1*]	
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [*normalizzato a 1*]	
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [*normalizzato a 1*]	
wR	apertura caratteristica delle fessure in combinazioni rare	[*mm*]
wF	apertura caratteristica delle fessure in combinazioni frequenti	[*mm*]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti	[*mm*]
dR	massima deformazione in combinazioni rare	
dF	massima deformazione in combinazioni frequenti	
dP	massima deformazione in combinazioni quasi permanenti	

Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

In relazione al tipo di elemento strutturale i valori sono selezionati nel modo seguente:

pilastri	**rRfck**	**rRfyk**	**rPfck**	per sezioni significative
travi	**rRfck**	**rRfyk**	**rPfck**	per sezioni significative
	wR	**wF**	**wP**	per sezioni significative
	dR	**dF**	**dP**	massimi in campata
setti e gusci	**rRfck**	**rRfyk**	**rPfck**	massimi nei nodi dell'elemento
	wR	**wF**	**wP**	massimi nei nodi dell'elemento

Si precisa che i valori di massima deformazione per travi sono riferiti al piano verticale (piano locale 1-2 con momenti

flettenti 3-3).

Pilas.	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb
1	0.0	0.10	0.07	0.0	70,70,0	150.0	0.16	0.12	0.0	70,70,0
	300.0	0.38	0.43	0.0	70,70,0					
2	0.0	0.10	0.07	0.0	70,70,0	150.0	0.16	0.12	0.0	70,70,0
	300.0	0.38	0.43	0.0	70,70,0					
5	0.0	0.13	0.08	0.0	70,70,0	150.0	0.16	0.11	0.0	70,70,0
	300.0	0.43	0.50	0.0	70,70,0					
6	0.0	0.20	0.12	0.0	70,70,0	150.0	0.22	0.15	0.0	70,70,0
	300.0	0.61	0.72	0.0	70,70,0					
7	0.0	0.21	0.13	0.0	70,70,0	150.0	0.23	0.15	0.0	70,70,0
	300.0	0.64	0.74	0.0	70,70,0					
8	0.0	0.19	0.13	0.0	70,70,0	150.0	0.22	0.14	0.0	70,70,0
	300.0	0.62	0.70	0.0	70,70,0					
9	0.0	0.13	0.08	0.0	70,70,0	150.0	0.16	0.11	0.0	70,70,0
	300.0	0.43	0.50	0.0	70,70,0					
13	0.0	0.23	0.15	0.0	70,70,0	150.0	0.25	0.16	0.0	70,70,0
	300.0	0.70	0.81	0.0	70,70,0					
15	0.0	0.19	0.12	0.0	70,70,0	150.0	0.22	0.15	0.0	70,70,0
	300.0	0.61	0.71	0.0	70,70,0					
16	0.0	0.21	0.13	0.0	70,70,0	150.0	0.23	0.15	0.0	70,70,0
	300.0	0.64	0.74	0.0	70,70,0					
17	0.0	0.19	0.13	0.0	70,70,0	150.0	0.22	0.14	0.0	70,70,0
	300.0	0.62	0.70	0.0	70,70,0					
18	0.0	0.23	0.15	0.0	70,70,0	150.0	0.25	0.16	0.0	70,70,0
	300.0	0.70	0.81	0.0	70,70,0					
29	0.0	0.05	0.03	0.0	70,70,0	150.0	0.11	0.09	0.0	70,70,0
	300.0	0.25	0.29	0.0	70,70,0					
30	0.0	0.05	0.03	0.0	70,70,0	150.0	0.11	0.09	0.0	70,70,0
	300.0	0.25	0.29	0.0	70,70,0					

Pilas.		rRfck	rRfyk	rPfck			rRfck	rRfyk	rPfck	
		0.70	0.81	0.0						

Trave	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb	wR mm	wF mm	wP mm	Rif. cmb	dR cm	dF cm	dP cm	Rif. cmb
3	0.0	0.17	0.36	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-1.09	-0.98	0.0	70,72,0
	315.0	0.33	0.76	0.0	70,70,0	0.23	0.22	0.0	70,72,0				
4	0.0	0.31	0.61	0.0	70,70,0	0.15	0.14	0.0	70,72,0	-1.71	-1.45	0.0	70,72,0
	315.0	0.50	0.75	0.0	70,70,0	0.19	0.17	0.0	70,72,0				
	630.0	0.31	0.61	0.0	70,70,0	0.15	0.14	0.0	70,72,0				
10	0.0	0.27	0.64	0.0	70,70,0	0.19	0.16	0.0	70,72,0	-1.38	-1.23	0.0	70,72,0
	315.0	0.40	0.71	0.0	70,70,0	0.19	0.18	0.0	70,72,0				
	630.0	0.27	0.64	0.0	70,70,0	0.19	0.16	0.0	70,72,0				
11	0.0	0.37	0.75	0.0	70,70,0	0.21	0.18	0.0	70,72,0	-1.80	-1.52	0.0	70,72,0
	315.0	0.56	0.72	0.0	70,70,0	0.17	0.15	0.0	70,72,0				
	630.0	0.37	0.75	0.0	70,70,0	0.21	0.18	0.0	70,72,0				
12	0.0	0.31	0.60	0.0	70,70,0	0.15	0.14	0.0	70,72,0	-1.77	-1.51	0.0	70,72,0
	315.0	0.51	0.77	0.0	70,70,0	0.20	0.18	0.0	70,72,0				
	630.0	0.31	0.60	0.0	70,70,0	0.15	0.14	0.0	70,72,0				
14	0.0	0.33	0.80	0.0	70,70,0	0.24	0.23	0.0	70,72,0	-1.67	-1.42	0.0	70,72,0
	315.0	0.49	0.73	0.0	70,70,0	0.19	0.16	0.0	70,72,0				
	630.0	0.33	0.80	0.0	70,70,0	0.24	0.23	0.0	70,72,0				
19	0.0	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.06	-0.06	0.0	70,72,0
	285.0	0.05	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
20	0.0	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.06	-0.06	0.0	70,72,0
	285.0	0.05	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
21	0.0	0.08	0.20	0.0	69,69,0	0.0	0.0	0.0	0,0,0	-0.05	-0.05	0.0	69,71,0
	300.0	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
22	0.0	0.06	0.15	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-5.09e-03	-5.46e-03	0.0	70,72,0
	245.0	0.02	0.04	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
	490.0	0.06	0.15	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
23	0.0	0.08	0.20	0.0	69,69,0	0.0	0.0	0.0	0,0,0	-0.05	-0.05	0.0	69,71,0
	300.0	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
24	0.0	0.06	0.15	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-5.11e-03	-5.47e-03	0.0	70,72,0
	245.0	0.02	0.04	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
	490.0	0.06	0.15	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
25	0.0	0.06	0.14	0.0	69,69,0	0.0	0.0	0.0	0,0,0	0.01	0.01	0.0	70,72,0
	210.0	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	420.0	0.03	0.07	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
26	0.0	0.07	0.17	0.0	70,69,0	0.0	0.0	0.0	0,0,0	-0.06	-0.06	0.0	70,72,0
	300.0	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
27	0.0	0.07	0.17	0.0	70,69,0	0.0	0.0	0.0	0,0,0	-0.06	-0.06	0.0	70,72,0

	300.0	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
28	0.0	0.06	0.14	0.0	69,69,0	0.0	0.0	0.0	0,0,0	0.01	0.01	0.0	70,72,0
	210.0	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	420.0	0.03	0.07	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
31	0.0	0.03	0.07	0.0	69,69,0	0.0	0.0	0.0	0,0,0	0.01	8.52e-03	0.0	70,72,0
	160.0	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	320.0	7.06e-03	0.02	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
32	0.0	0.03	0.07	0.0	69,69,0	0.0	0.0	0.0	0,0,0	0.01	8.53e-03	0.0	70,72,0
	160.0	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	320.0	6.99e-03	0.02	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
33	0.0	0.11	0.23	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.55	-0.40	0.0	70,72,0
	315.0	0.23	0.54	0.0	70,70,0	0.16	0.14	0.0	70,72,0				
34	0.0	0.23	0.54	0.0	70,70,0	0.16	0.14	0.0	70,72,0	-0.55	-0.40	0.0	70,72,0
	315.0	0.11	0.23	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
35	0.0	0.33	0.76	0.0	70,70,0	0.23	0.22	0.0	70,72,0	-1.09	-0.98	0.0	70,72,0
	315.0	0.17	0.36	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
36	0.0	0.05	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.06	-0.06	0.0	69,71,0
	285.0	0.09	0.20	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
37	0.0	0.05	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.06	-0.06	0.0	69,71,0
	285.0	0.09	0.20	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
38	0.0	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.05	-0.05	0.0	70,72,0
	300.0	0.07	0.16	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
39	0.0	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.05	-0.05	0.0	70,72,0
	300.0	0.07	0.16	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
40	0.0	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.06	-0.06	0.0	70,72,0
	300.0	0.07	0.16	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
41	0.0	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.06	-0.06	0.0	70,72,0
	300.0	0.07	0.16	0.0	69,69,0	0.0	0.0	0.0	0,0,0				

Trave	**rRfck**	**rRfyk**	**rPfck**	**wR**	**wF**	**wP**	**dR**	**dF**	**dP**
	0.56	0.80	0.0	0.24	0.23	0.0	0.01	0.01	0.0

Guscio	**rRfck**	**rRfyk**	**rPfck**	**Rif. cmb**	**wR** mm	**wF** mm	**wP** mm	**Rif. cmb**
1	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
2	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
3	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
4	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
5	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
6	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
7	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
8	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
9	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
10	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
11	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
12	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
13	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
14	0.03	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
15	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
16	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
17	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
18	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
19	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
20	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
21	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
22	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
23	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
24	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
25	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
26	0.03	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
27	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
28	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
29	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
30	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
31	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
32	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
33	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
34	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
35	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
36	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
37	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
38	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
39	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
40	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
41	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0

42	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
43	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
44	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
45	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
46	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
47	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
48	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
49	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
50	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
51	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
52	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
53	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
54	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
55	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
56	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
57	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
58	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
59	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
60	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
61	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
62	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
63	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
64	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
65	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
66	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
67	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
68	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
69	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
70	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
71	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
72	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
73	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
74	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
75	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
76	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
77	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
78	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
79	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
80	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
81	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
82	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
83	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
84	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
85	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
86	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
87	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
88	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
89	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
90	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
91	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
92	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
93	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
94	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
95	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
96	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
97	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
98	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
99	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
100	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
101	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
102	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
103	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
104	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
105	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
106	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
107	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
108	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
109	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
110	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
111	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
112	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
113	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
114	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
115	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
116	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
117	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0

118	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
119	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
120	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
121	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
122	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
123	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
124	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
125	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
126	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
127	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
128	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
129	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
130	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
131	0.11	0.18	0.0	70,70,0	0.0	0.0	0.0	0,0,0
132	0.07	0.15	0.0	70,70,0	0.0	0.0	0.0	0,0,0
133	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
134	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
135	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
136	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
137	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
138	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
139	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
140	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
141	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
142	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
143	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
144	0.14	0.40	0.0	70,70,0	0.0	0.0	0.0	0,0,0
145	0.05	0.22	0.0	70,70,0	0.0	0.0	0.0	0,0,0
146	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
147	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
148	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
149	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
150	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
151	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
152	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
153	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
154	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
155	0.04	0.19	0.0	70,70,0	0.0	0.0	0.0	0,0,0
156	0.13	0.37	0.0	70,70,0	0.0	0.0	0.0	0,0,0
157	0.13	0.37	0.0	70,70,0	0.0	0.0	0.0	0,0,0
158	0.04	0.21	0.0	70,70,0	0.0	0.0	0.0	0,0,0
159	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
160	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
161	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
162	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
163	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
164	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
165	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
166	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
167	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
168	0.03	0.19	0.0	70,70,0	0.0	0.0	0.0	0,0,0
169	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
170	0.10	0.16	0.0	70,70,0	0.0	0.0	0.0	0,0,0
171	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
172	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
173	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
174	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
175	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
176	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
177	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
178	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
179	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
180	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
181	0.05	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
182	0.07	0.15	0.0	70,70,0	0.0	0.0	0.0	0,0,0
183	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
184	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
185	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
186	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
187	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
188	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
189	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
190	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
191	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
192	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
193	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0

194	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
195	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
196	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
197	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
198	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
199	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
200	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
201	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
202	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
203	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
204	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
205	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
206	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
207	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
208	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
209	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
210	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
211	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
212	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
213	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
214	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
215	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
216	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
217	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
218	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
219	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
220	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
221	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
222	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
223	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
224	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
225	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
226	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
227	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
228	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
229	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
230	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
231	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
232	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
233	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
234	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
235	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
236	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
237	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
238	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
239	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
240	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
241	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
242	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
243	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
244	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
245	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
246	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
247	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
248	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
249	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
250	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
251	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
252	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
253	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
254	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
255	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
256	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
257	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
258	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
259	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
260	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
261	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
262	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
263	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
264	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
265	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
266	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
267	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
268	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
269	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0

270	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
271	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
272	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
273	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
274	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
275	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
276	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
277	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
278	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
279	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
280	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
281	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
282	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
283	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
284	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
285	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
286	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
287	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
288	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
289	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
290	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
291	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
292	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
293	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
294	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
295	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
296	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
297	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
298	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
299	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
300	0.08	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
301	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
302	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
303	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
304	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
305	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
306	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
307	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
308	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
309	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
310	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
311	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
312	0.05	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
313	0.11	0.31	0.0	70,70,0	0.0	0.0	0.0	0,0,0
314	0.03	0.18	0.0	70,70,0	0.0	0.0	0.0	0,0,0
315	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
316	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
317	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
318	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
319	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
320	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
321	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
322	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
323	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
324	0.03	0.16	0.0	70,70,0	0.0	0.0	0.0	0,0,0
325	0.10	0.29	0.0	70,70,0	0.0	0.0	0.0	0,0,0
326	0.09	0.28	0.0	70,70,0	0.0	0.0	0.0	0,0,0
327	0.03	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
328	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
329	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
330	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
331	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
332	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
333	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
334	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
335	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
336	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
337	0.03	0.16	0.0	70,70,0	0.0	0.0	0.0	0,0,0
338	0.09	0.26	0.0	70,70,0	0.0	0.0	0.0	0,0,0
339	0.07	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
340	0.04	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
341	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
342	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
343	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
344	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
345	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0

346	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
347	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
348	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
349	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
350	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
351	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
352	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
353	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
354	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
355	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
356	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
357	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
358	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
359	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
360	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
361	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
362	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
363	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
364	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
365	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
366	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
367	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
368	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
369	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
370	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
371	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
372	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
373	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
374	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
375	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
376	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
377	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
378	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
379	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
380	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
381	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
382	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
383	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
384	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
385	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
386	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
387	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
388	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
389	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
390	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
391	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
392	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
393	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
394	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
395	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
396	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
397	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
398	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
399	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
400	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
401	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
402	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
403	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
404	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
405	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
406	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
407	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
408	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
409	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
410	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
411	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
412	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
413	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
414	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
415	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
416	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
417	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
418	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
419	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
420	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
421	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0

422	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
423	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
424	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
425	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
426	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
427	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
428	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
429	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
430	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
431	0.03	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
432	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
433	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
434	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
435	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
436	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
437	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
438	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
439	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
440	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
441	0.03	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
442	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
443	0.09	0.24	0.0	70,70,0	0.0	0.0	0.0	0,0,0
444	0.05	0.15	0.0	70,70,0	0.0	0.0	0.0	0,0,0
445	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
446	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
447	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
448	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
449	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
450	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
451	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
452	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
453	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
454	0.03	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
455	0.08	0.24	0.0	70,70,0	0.0	0.0	0.0	0,0,0
456	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
457	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
458	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
459	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
460	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
461	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
462	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
463	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
464	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
465	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
466	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
467	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
468	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
469	0.10	0.28	0.0	70,70,0	0.0	0.0	0.0	0,0,0
470	0.04	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
471	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
472	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
473	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
474	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
475	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
476	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
477	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
478	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
479	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
480	0.03	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
481	0.09	0.27	0.0	70,70,0	0.0	0.0	0.0	0,0,0
482	0.07	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
483	0.04	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
484	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
485	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
486	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
487	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
488	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
489	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
490	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
491	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
492	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
493	0.04	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
494	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
495	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
496	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
497	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0

498	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
499	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
500	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
501	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
502	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
503	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
504	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
505	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
506	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
507	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
508	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
509	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
510	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
511	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
512	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
513	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
514	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
515	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
516	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
517	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
518	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
519	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
520	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
521	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
522	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
523	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
524	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
525	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
526	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
527	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
528	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
529	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
530	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
531	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
532	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
533	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
534	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
535	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
536	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
537	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
538	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
539	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
540	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
541	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
542	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
543	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
544	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
545	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
546	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
547	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
548	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
549	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
550	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
551	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
552	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
553	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
554	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
555	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
556	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
557	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
558	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
559	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
560	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
561	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
562	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
563	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
564	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
565	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
566	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
567	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
568	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
569	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
570	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
571	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
572	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
573	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0

574	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
575	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
576	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
577	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
578	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
579	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
580	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
581	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
582	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
583	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
584	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
585	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
586	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
587	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
588	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
589	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
590	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
591	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
592	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
593	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
594	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
595	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
596	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
597	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
598	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
599	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
600	0.03	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
601	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
602	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
603	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
604	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
605	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
606	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
607	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
608	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
609	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
610	0.03	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
611	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
612	0.09	0.24	0.0	70,70,0	0.0	0.0	0.0	0,0,0
613	0.05	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
614	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
615	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
616	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
617	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
618	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
619	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
620	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
621	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
622	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
623	0.03	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
624	0.09	0.24	0.0	70,70,0	0.0	0.0	0.0	0,0,0
625	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
626	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
627	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
628	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
629	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
630	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
631	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
632	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
633	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
634	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
635	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
636	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
637	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
638	0.09	0.26	0.0	70,70,0	0.0	0.0	0.0	0,0,0
639	0.04	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
640	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
641	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
642	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
643	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
644	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
645	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
646	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
647	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
648	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
649	0.03	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0

650	0.09	0.25	0.0	70,70,0	0.0	0.0	0.0	0,0,0
651	0.07	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
652	0.04	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
653	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
654	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
655	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
656	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
657	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
658	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
659	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
660	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
661	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
662	0.04	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
663	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
664	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
665	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
666	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
667	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
668	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
669	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
670	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
671	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
672	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
673	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
674	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
675	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
676	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
677	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
678	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
679	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
680	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
681	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
682	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
683	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
684	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
685	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
686	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
687	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
688	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
689	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
690	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
691	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
692	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
693	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
694	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
695	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
696	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
697	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
698	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
699	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
700	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
701	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
702	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
703	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
704	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
705	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
706	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
707	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
708	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
709	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
710	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
711	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
712	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
713	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
714	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
715	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
716	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
717	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
718	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
719	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
720	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
721	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
722	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
723	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
724	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
725	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0

726	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
727	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
728	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
729	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
730	0.02	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
731	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
732	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
733	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
734	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
735	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
736	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
737	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
738	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
739	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
740	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
741	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
742	0.07	0.18	0.0	70,70,0	0.0	0.0	0.0	0,0,0
743	0.03	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
744	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
745	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
746	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
747	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
748	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
749	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
750	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
751	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
752	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
753	0.03	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
754	0.06	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
755	0.07	0.20	0.0	70,70,0	0.0	0.0	0.0	0,0,0
756	0.03	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
757	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
758	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
759	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
760	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
761	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
762	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
763	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
764	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
765	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
766	0.03	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
767	0.06	0.19	0.0	70,70,0	0.0	0.0	0.0	0,0,0
768	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
769	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
770	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
771	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
772	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
773	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
774	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
775	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
776	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
777	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
778	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
779	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
780	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
781	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
782	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
783	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
784	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
785	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
786	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
787	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
788	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
789	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
790	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
791	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
792	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
793	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
794	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
795	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
796	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
797	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
798	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
799	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
800	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
801	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0

802	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
803	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
804	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
805	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
806	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
807	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
808	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
809	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
810	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
811	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
812	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
813	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
814	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
815	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
816	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
817	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
818	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
819	0.07	0.18	0.0	70,70,0	0.0	0.0	0.0	0,0,0
820	0.04	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
821	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
822	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
823	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
824	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
825	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
826	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
827	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
828	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
829	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
830	0.02	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
831	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
832	0.10	0.20	0.0	70,70,0	0.0	0.0	0.0	0,0,0
833	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
834	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
835	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
836	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
837	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
838	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
839	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
840	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
841	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
842	0.07	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
843	0.11	0.44	0.0	70,70,0	0.0	0.0	0.0	0,0,0
844	0.10	0.39	0.0	70,70,0	0.0	0.0	0.0	0,0,0
845	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
846	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
847	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
848	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
849	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
850	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
851	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
852	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
853	0.09	0.31	0.0	70,70,0	0.0	0.0	0.0	0,0,0
854	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
855	0.10	0.36	0.0	70,70,0	0.0	0.0	0.0	0,0,0
856	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
857	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
858	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
859	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
860	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
861	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
862	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
863	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
864	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
865	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
866	0.09	0.31	0.0	70,70,0	0.0	0.0	0.0	0,0,0
867	0.02	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
868	0.09	0.33	0.0	70,70,0	0.0	0.0	0.0	0,0,0
869	0.05	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
870	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
871	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
872	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
873	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
874	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
875	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
876	0.07	0.26	0.0	70,70,0	0.0	0.0	0.0	0,0,0
877	0.07	0.29	0.0	70,70,0	0.0	0.0	0.0	0,0,0

878	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
879	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
880	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
881	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
882	0.10	0.23	0.0	70,70,0	0.0	0.0	0.0	0,0,0
883	0.04	0.18	0.0	70,70,0	0.0	0.0	0.0	0,0,0
884	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
885	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
886	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
887	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
888	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
889	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
890	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
891	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
892	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
893	0.10	0.23	0.0	70,70,0	0.0	0.0	0.0	0,0,0
894	0.15	0.55	0.0	70,70,0	0.0	0.0	0.0	0,0,0
895	0.13	0.50	0.0	70,70,0	0.0	0.0	0.0	0,0,0
896	0.10	0.20	0.0	70,70,0	0.0	0.0	0.0	0,0,0
897	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
898	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
899	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
900	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
901	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
902	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
903	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
904	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
905	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
906	0.07	0.16	0.0	70,70,0	0.0	0.0	0.0	0,0,0
907	0.11	0.46	0.0	70,70,0	0.0	0.0	0.0	0,0,0
908	0.10	0.40	0.0	70,70,0	0.0	0.0	0.0	0,0,0
909	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
910	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
911	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
912	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
913	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
914	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
915	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
916	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
917	0.09	0.32	0.0	70,70,0	0.0	0.0	0.0	0,0,0
918	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
919	0.09	0.37	0.0	70,70,0	0.0	0.0	0.0	0,0,0
920	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
921	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
922	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
923	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
924	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
925	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
926	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
927	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
928	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
929	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
930	0.09	0.32	0.0	70,70,0	0.0	0.0	0.0	0,0,0
931	0.02	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
932	0.09	0.34	0.0	70,70,0	0.0	0.0	0.0	0,0,0
933	0.05	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
934	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
935	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
936	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
937	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
938	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
939	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
940	0.06	0.27	0.0	70,70,0	0.0	0.0	0.0	0,0,0
941	0.07	0.30	0.0	70,70,0	0.0	0.0	0.0	0,0,0
942	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
943	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
944	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
945	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
946	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
947	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
948	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
949	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
950	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
951	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
952	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
953	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0

954	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
955	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
956	0.03	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
957	0.03	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
958	0.02	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
959	0.04	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
960	0.04	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
961	0.01	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
962	0.02	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
963	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
964	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
965	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
966	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
967	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
968	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
969	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
970	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
971	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
972	0.03	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
973	0.12	0.35	0.0	70,70,0	0.0	0.0	0.0	0,0,0
974	0.15	0.53	0.0	70,70,0	0.0	0.0	0.0	0,0,0
975	0.13	0.48	0.0	70,70,0	0.0	0.0	0.0	0,0,0

Guscio	**rRfck**	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
	0.15	0.55	0.0		0.0	0.0	0.0	

ALLEGATO 2 – Tabulati di Calcolo Edificio di stazione Stallo AT

23. RELAZIONE DI CALCOLO STRUTTURALE

23.1. Descrizione generale dell'opera

Descrizione generale dell'opera	
Fabbricato ad uso	
Ubicazione	Comune di MACOMER (NU) (Regione SARDEGNA)
	Località MACOMER (NU)
	Longitudine 8.779, Latitudine 40.265
Numero di piani	Fuori terra
	Interrati
	le dimensioni dell'opera in pianta sono racchiuse in un rettangolo di
Numero vani scale	
Numero vani ascensore	
Tipo di fondazione	

Principali caratteristiche della struttura	
Struttura regolare in pianta	
Struttura regolare in altezza	
Classe di duttilità	
Travi: ricalate o in spessore	
Pilastri	
Pilastri in falso	
Tipo di fondazione	
Condizioni per cui è necessario considerare la componente verticale del sisma	

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
IV	50.0	2.0	100.0

Fattore di struttura/comportamento
Edificio in Elevazione: qSLU x=3.3 qSLU y=3.3 Fondazione: q=1

23.2. Quadro normativo di riferimento adottato

Le norme ed i documenti assunti quale riferimento per la progettazione strutturale vengono indicati di seguito.

Nel capitolo "normativa di riferimento" è comunque presente l'elenco completo delle normative disponibili.

Progetto-verifica degli elementi	
Progetto cemento armato	D.M. 17-01-2018
Progetto acciaio	D.M. 17-01-2018
Progetto legno	D.M. 17-01-2018
Progetto muratura	D.M. 17-01-2018
Azione sismica	
Norma applicata per l' azione sismica	D.M. 17-01-2018

23.3. Azioni di progetto sulla costruzione

Nei capitoli "modellazione delle azioni" e "schematizzazione dei casi di carico" sono indicate le azioni sulla costruzioni.

Nel prosieguo si indicano tipo di analisi strutturale condotta (statico,dinamico, lineare o non lineare) e il metodo adottato per la risoluzione del problema strutturale nonché le metodologie seguite per la verifica o per il progetto-verifica delle sezioni. Si riportano le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti; le configurazioni studiate per la struttura in esame *sono risultate effettivamente esaustive per la progettazione-verifica.*

La verifica della sicurezza degli elementi strutturali avviene con i metodi della scienza delle costruzioni. L'analisi strutturale è condotta con il metodo degli spostamenti per la valutazione dello stato tensodeformativo indotto da carichi statici. L'analisi strutturale è condotta con il metodo dell'analisi modale e dello spettro di risposta in termini di accelerazione per la valutazione dello stato tensodeformativo indotto da carichi dinamici (tra cui quelli di tipo sismico).

L'analisi strutturale viene effettuata con il metodo degli elementi finiti. Il metodo sopraindicato si basa sulla schematizzazione della struttura in elementi connessi solo in corrispondenza di un numero prefissato di punti denominati nodi. I nodi sono definiti dalle tre coordinate cartesiane in un sistema di riferimento globale. Le incognite del problema (nell'ambito del metodo degli spostamenti) sono le componenti di spostamento dei nodi riferite al sistema di riferimento globale (traslazioni secondo X, Y, Z, rotazioni attorno X, Y, Z). La soluzione del problema si ottiene con un sistema di equazioni algebriche lineari i cui termini noti sono costituiti dai carichi agenti sulla struttura opportunamente concentrati ai nodi:

K * u = F dove **K** = matrice di rigidezza

u = vettore spostamenti nodali

F = vettore forze nodali

Dagli spostamenti ottenuti con la risoluzione del sistema vengono quindi dedotte le sollecitazioni e/o le tensioni di ogni elemento, riferite generalmente ad una terna locale all'elemento stesso.

Il sistema di riferimento utilizzato è costituito da una terna cartesiana destrorsa XYZ. Si assume l'asse Z verticale ed orientato verso l'alto.

Gli elementi utilizzati per la modellazione dello schema statico della struttura sono i seguenti:

Elemento tipo ***TRUSS*** (biella-D2)

Elemento tipo ***BEAM*** (trave-D2)

Elemento tipo ***MEMBRANE*** (membrana-D3)

Elemento tipo ***PLATE*** (piastra-guscio-D3)

Elemento tipo ***BOUNDARY*** (molla)

Elemento tipo ***STIFFNESS*** (matrice di rigidezza)

Elemento tipo ***BRICK*** (elemento solido)

Elemento tipo ***SOLAIO*** (macro elemento composto da più membrane)

23.4. Modello numerico

In questa parte viene descritto il modello numerico utilizzato (o i modelli numerici utilizzati) per l'analisi della struttura. La presentazione delle informazioni deve essere, coerentemente con le prescrizioni del paragrafo 10.2 e relativi sottoparagrafi delle NTC-18, tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità

Tipo di analisi strutturale	
Carichi verticali	SI
Statica non lineare	NO
Sismica statica lineare	NO
Sismica dinamica lineare	SI
Sismica statica non lineare (prop. masse)	NO
Sismica statica non lineare (prop. modo)	NO
Sismica statica non lineare (triangolare)	NO
Non linearità geometriche (fattore P delta)	NO

Di seguito si indicano l'origine e le caratteristiche dei codici di calcolo utilizzati riportando titolo, produttore e distributore, versione, estremi della licenza d'uso:

23.4.1. Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2020-01-187)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Codice Licenza:	Licenza dsi5451

Un attento esame preliminare della documentazione a corredo del software ***ha consentito di valutarne l'affidabilità e soprattutto l'idoneità al caso specifico***. La documentazione, fornita dal produttore e distributore del software, contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione dei campi d'impiego, nonché casi prova interamente risolti e commentati, corredati dei file di input necessari a riprodurre l'elaborazione:

Affidabilità dei codici utilizzati
2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.

E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: https://www.2si.it/it/prodotti/affidabilita/

Modellazione della geometria e proprietà meccaniche:	
nodi	540
elementi D2 (per aste, travi, pilastri…)	25
elementi D3 (per pareti, platee, gusci…)	480
elementi solaio	14
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	-50.00
Xmax =	1430.00
Ymin =	-50.00
Ymax =	679.98
Zmin =	0.00
Zmax =	300.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	SI
Pareti	NO
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	NO
Travi	SI
Gusci	NO
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	NO
Solai senza la proprietà piano rigido	SI
Tipo di vincoli:	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	NO
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	SI
Fondazioni con elementi solidi	NO

23.5. Modellazione delle azioni

Si veda il capitolo **"Schematizzazione dei casi di carico"** per le informazioni necessarie alla comprensione ed alla ricostruzione delle azioni applicate al modello numerico, coerentemente con quanto indicato nella parte "*2.6. Azioni di progetto sulla costruzione*".

23.6. Combinazioni e/o percorsi di carico

Si veda il capitolo **"Definizione delle combinazioni"** in cui sono indicate le combinazioni di carico adottate e, nel caso di calcoli non lineari, i percorsi di carico seguiti.

Combinazioni dei casi di carico	
APPROCCIO PROGETTUALE	Approccio 2
Tensioni ammissibili	NO
SLU	SI
SLV (SLU con sisma)	SI
SLC	NO
SLD	SI
SLO	NO
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	NO
SLA (accidentale quale incendio)	NO

Principali risultati

I risultati devono costituire una sintesi completa ed efficace, presentata in modo da riassumere il comportamento della struttura, per ogni tipo di analisi svolta.

Nella presente relazione di calcolo sono riportati i seguenti risultati che il progettista ritiene di interesse per la descrizione e la compresione del/i modello/i e del comportamento della struttura:

per l'analisi modale:

- periodi dei modi di vibrare della struttura
- masse eccitate dai singoli modi
- massa eccitata totale

deformate e sollecitazioni:

- spostamenti e rotazioni dei singoli nodi della struttura

- reazioni vincolari (nel caso siano presenti nodi vincolati rigidamente)
- pressioni sul terreno (nel caso siano presenti elementi di fondazione)
- sollecitazioni sugli elementi d2 nelle combinazioni di calcolo più significative
- tensioni sugli elementi d3 nelle combinazioni di calcolo più significative
- sollecitazioni sui macroelementi da elementi d3 nelle combinazioni di calcolo più significative

La presente relazione, oltre ad illustrare in modo esaustivo i dati in ingresso ed i risultati delle analisi in forma tabellare, riporta una serie di immagini:

per i dati in ingresso:

- modello solido della struttura
- numerazione di nodi e ed elementi
- configurazioni di carico statiche
- configurazioni di carico sismiche con baricentri delle masse e eccentricità

per le combinazioni più significative (statisticamente più gravose per la struttura):

- configurazioni deformate
- diagrammi e inviluppi delle azioni interne
- mappe delle tensioni
- reazioni vincolari
- mappe delle pressioni sul terreno

per il progetto-verifica degli elementi:

- diagrammi di armatura
- percentuali di sfruttamento
- mappe delle verifiche più significative per i vari stati limite

Informazioni generali sull'elaborazione e giudizio motivato di accettabilità dei risultati.

Il programma prevede una serie di controlli automatici (check) che consentono l'individuazione di errori di modellazione. Al termine dell'analisi un controllo automatico identifica la presenza di spostamenti o rotazioni abnormi. Si può pertanto asserire che l' elaborazione sia corretta e completa. I risultati delle elaborazioni sono stati sottoposti a controlli che ne comprovano l'attendibilità. Tale valutazione ha compreso il confronto con i risultati di semplici calcoli, eseguiti con metodi tradizionali e adottati, anche in fase di primo proporzionamento della struttura. Inoltre, sulla base di considerazioni riguardanti gli stati tensionali e deformativi determinati, si è valutata la validità delle scelte operate in sede di schematizzazione e di modellazione della struttura e delle azioni. Si allega al termine della presente relazione elenco sintetico dei controlli svolti (verifiche di equilibrio tra reazioni vincolari e carichi applicati, comparazioni tra i risultati delle analisi e quelli di valutazioni semplificate, etc.)

23.7. Verifiche agli stati limite ultimi

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU vengono indicate, con riferimento alla normativa adottata, le modalità ed i criteri seguiti per valutare la sicurezza della struttura nei confronti delle possibili situazioni di crisi ed i risultati delle valutazioni svolte. In via generale, oltre alle verifiche di resistenza e di spostamento, devono essere prese in considerazione verifiche nei confronti dei fenomeni di instabilità, locale e globale, di fatica, di duttilità, di degrado.

23.8. Verifiche agli stati limite di esercizio

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLE vengono indicate, con riferimento alla normativa adottata, le modalità seguite per valutare l'affidabilità della struttura nei confronti delle possibili situazioni di perdita di funzionalità (per eccessive deformazioni, fessurazioni, vibrazioni, etc.) ed i risultati delle valutazioni svolte.

23.9. RELAZIONE SUI MATERIALI

Il capitolo Materiali riportata informazioni esaustive relative all'elenco dei materiali impiegati e loro modalità di posa in opera e ai valori di calcolo.

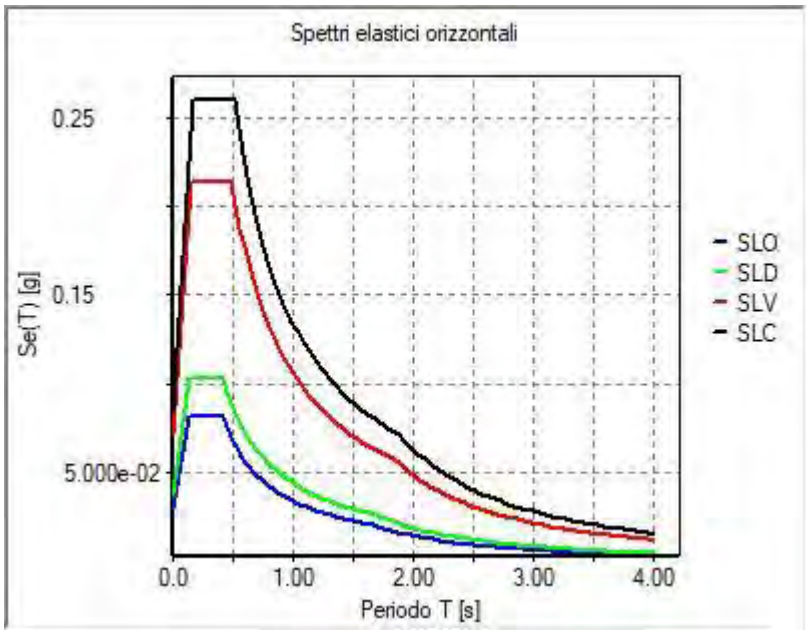
24. NORMATIVA DI RIFERIMENTO

35. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
36. Circolare 21/01/19, n. 7 C.S.LL.PP "Istruzioni per l'applicazione dell'aggiornamento delle Norme Tecniche delle Costruzioni di cui al decreto ministeriale 17 gennaio 2018"
37. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
38. D.M. LL.PP. 9 Gennaio 1996 "Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche".
39. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>".
40. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
41. Circolare 4/07/96, n.156AA.GG./STC. istruzioni per l'applicazione delle "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>" di cui al D.M. 16/01/96.
42. Circolare 10/04/97, n.65AA.GG. istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/96.
43. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
44. Circolare 4 Gennaio 1989 n. 30787 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
45. D.M. LL.PP. 11 Marzo 1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione".
46. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
47. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
48. Ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003 "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e successive modificazioni e integrazioni.
49. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
50. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici.
51. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
52. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
53. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
54. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
55. UNI EN 1992-1-1:2005 24/11/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
56. UNI EN 1992-1-2:2005 01/04/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-2: Regole generali - Progettazione strutturale contro l'incendio.
57. UNI EN 1993-1-1:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici.
58. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
59. UNI EN 1994-1-1:2005 01/03/2005 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
60. UNI EN 1994-2:2006 12/01/2006 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 2: Regole generali e regole per i ponti.
61. UNI EN 1995-1-1:2005 01/02/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali – Regole comuni e regole per gli edifici.
62. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
63. UNI EN 1996-1-1:2006 26/01/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 1-1: Regole generali per strutture di muratura armata e non armata.
64. UNI EN 1996-3:2006 09/03/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 3: Metodi

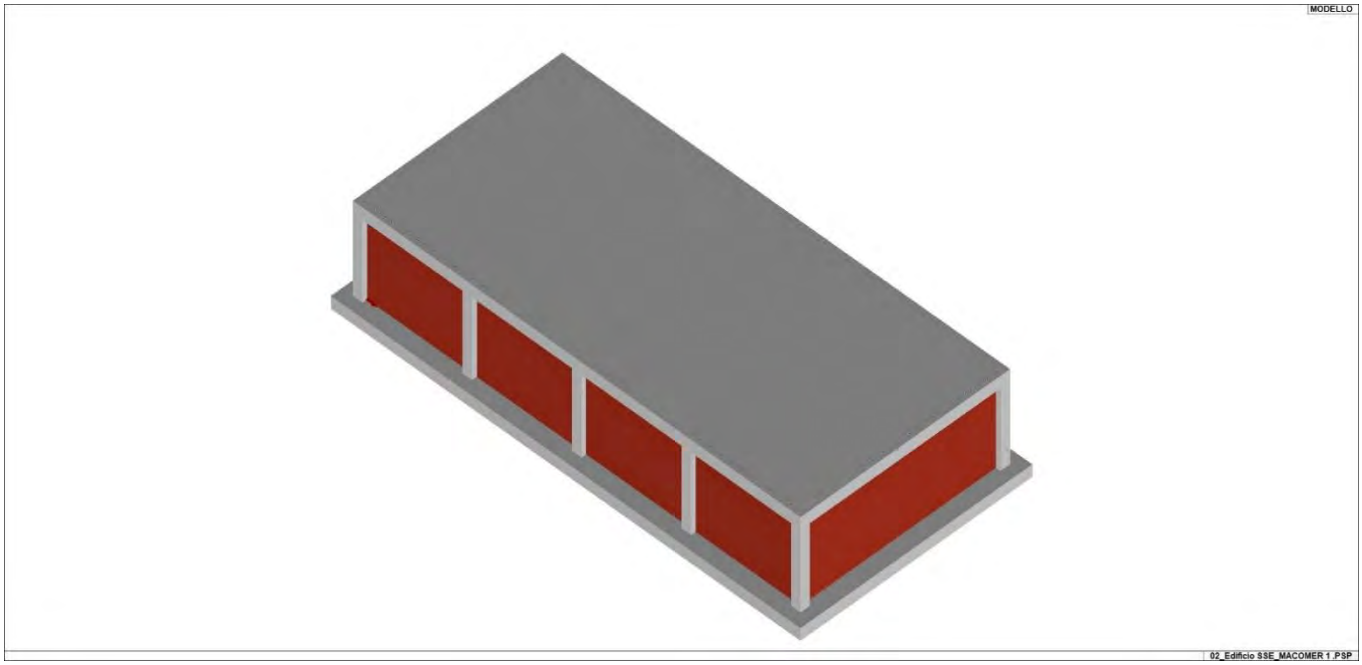
di calcolo semplificato per strutture di muratura non armata.

65. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
66. UNI EN 1998-1:2005 01/03/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
67. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.
68. UNI EN 1998-5:2005 01/01/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.

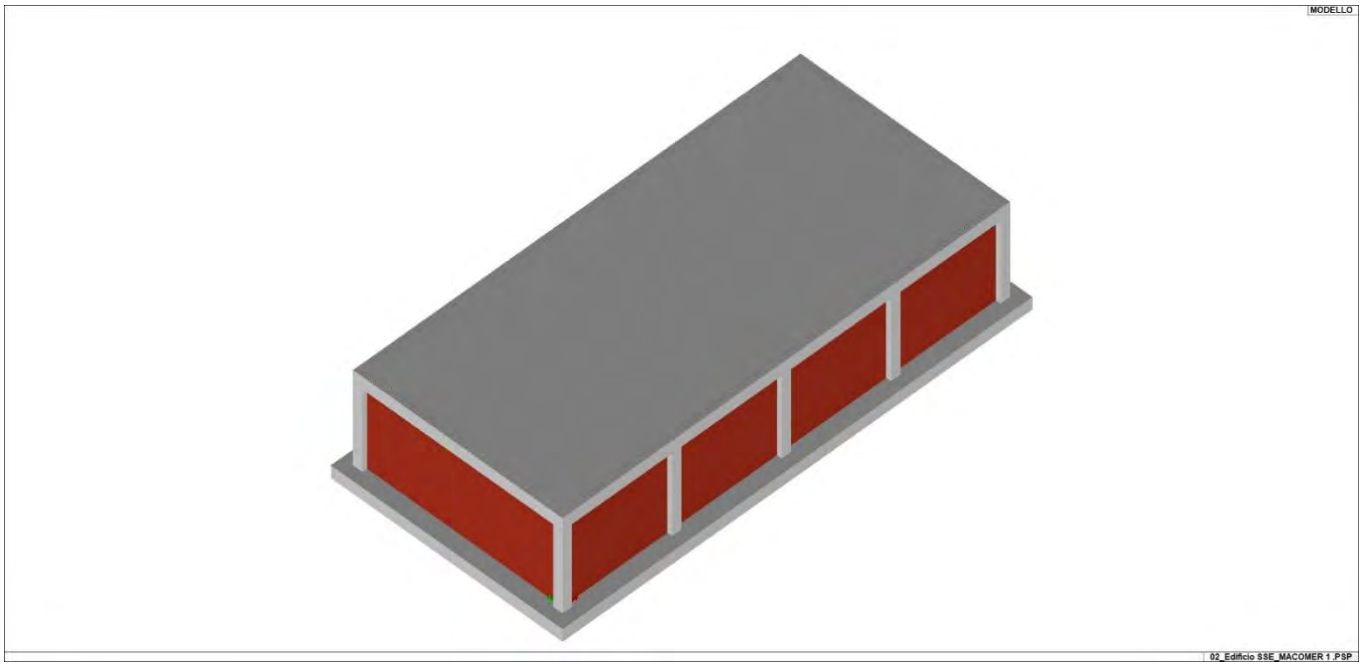
NOTA il capitolo "normativa di riferimento": riporta l' elenco delle normative implementate nel software. Le norme utilizzate per la struttura oggetto della presente relazione sono indicate nel precedente capitolo "RELAZIONE DI CALCOLO STRUTTURALE" "ANALISI E VERIFICHE SVOLTE CON L'AUSILIO DI CODICI DI CALCOLO". Laddove nei capitoli successivi vengano richiamate norme antecedenti al DM 17.01.18 è dovuto o a progettazione simulata di edifico esistente.



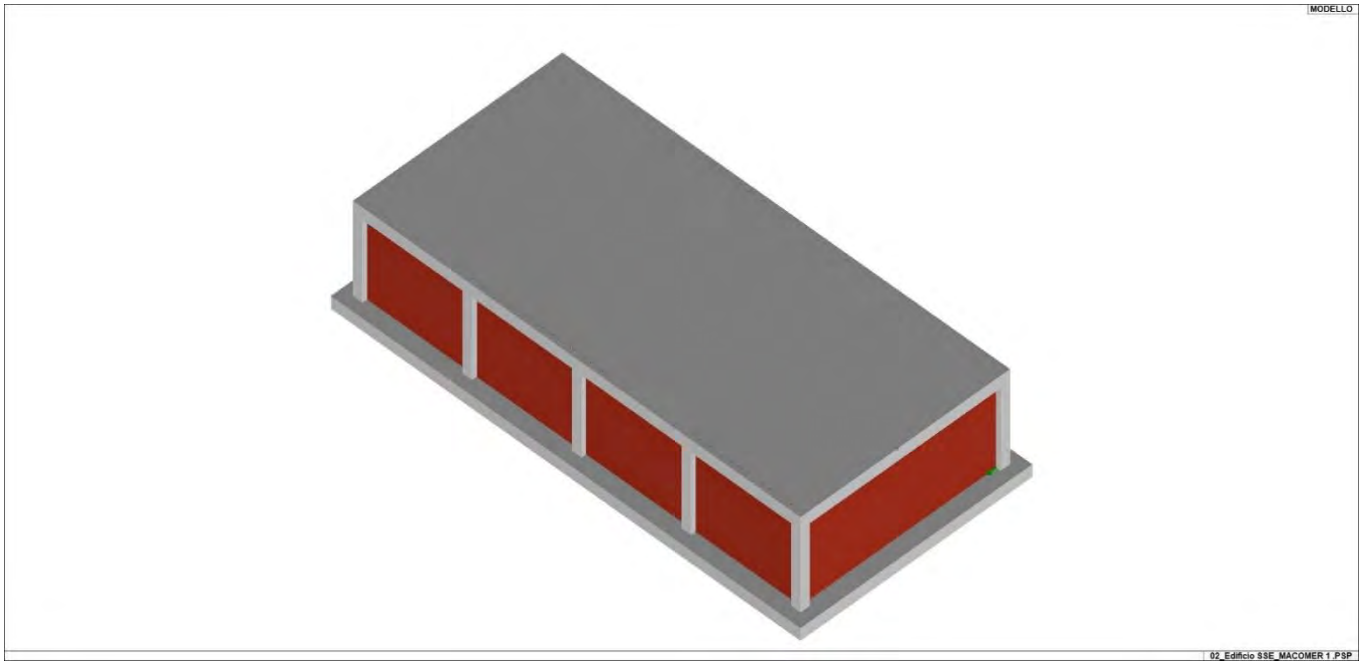
01_INT_SPETTRI_ELASTICI_O



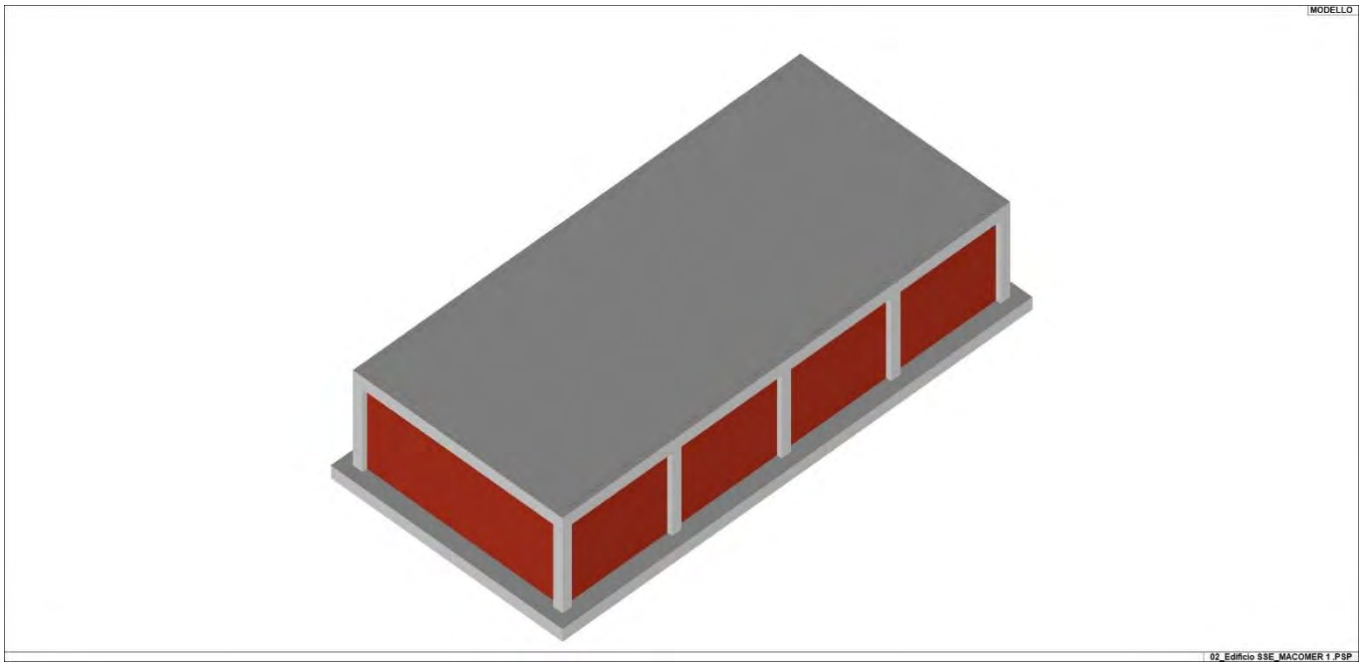
01_INT_VISTA_SOLIDA_001



01_INT_VISTA_SOLIDA_002



01_INT_VISTA_SOLIDA_003



01_INT_VISTA_SOLIDA_004

25. CARATTERISTICHE MATERIALI UTILIZZATI

25.1. LEGENDA TABELLA DATI MATERIALI

Il programma consente l'uso di materiali diversi. Sono previsti i seguenti tipi di materiale:

1	materiale tipo cemento armato
2	materiale tipo acciaio
3	materiale tipo muratura
4	materiale tipo legno
5	materiale tipo generico

I materiali utilizzati nella modellazione sono individuati da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni materiale vengono riportati in tabella i seguenti dati:

Young	modulo di elasticità normale E
Poisson	coefficiente di contrazione trasversale ni
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica
Fattore di confidenza FC m	Fattore di confidenza specifico per materiale; (è riportato solo se diverso da quello globale della struttura)
Fattore di confidenza FC a	Fattore di confidenza specifico per l'armatura (è riportato solo se diverso da quello globale della struttura)
Elasto-plastico	Materiale elastico perfettamente plastico per aste non lineari
Massima compressione	Massima tensione di compressione per aste non lineari
Massima trazione	Massima tensione di trazione per aste non lineari
Fattore attrito	Coefficinete di attrito per aste non lineari
Rapporto HRDb	Rapporto di hardening a flessione
Rapporto HRDv	Rapporto di hardening a taglio

I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	cemento armato		
		Resistenza Rc	resistenza a cmpressione cubica
		Resistenza fctm	resistenza media a trazione semplice
		Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio		
		Tensione ft	Valore della tensione di rottura
		Tensione fy	Valore della tensione di snervamento
		Resistenza fd	Resistenza di calcolo per SL CNR-UNI 10011
		Resistenza fd (>40)	Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm
		Tensione ammissibile	Tensione ammissibile CNR-UNI 10011
		Tensione ammissibile (>40)	Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura		
		Muratura consolidata	Muratura per la quale si prevedono interventi di rinforzo"
		Incremento resistenza	Incremento conseguito in termini di resistenza
		Incremento rigidezza	Incremento conseguito in termini di rigidezza
		Resistenza f	Valore della resistenza a compressione
		Resistenza fv0	Valore della resistenza a taglio in assenza di tensioni normali
		Resistenza fh	Valore della resistenza a compressione orizzontale
		Resistenza fb	Valore della resistenza a compressione dei blocchi
		Resistenza fbh	Valore della resistenza a compressione dei blocchi in direzione orizzontale
		Resistenza fv0h	Valore della resistenza a taglio in assenza di tensioni normali per le travi
		Resistenza ft	Valore della resistenza a trazione per fessurazione diagonale

	Resistenza fvlim	Valore della massima resistenza a taglio
	Resistenza fbt	Valore della resistenza a trazione dei blocchi
	Coefficiente mu	Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4)
	Coefficiente fi	Coefficiente d'ingranamento utilizzato per la resistenza a taglio
	Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4 legno		
	E0,05	Modulo di elasticità corrispondente ad un frattile del 5%
	Resistenza fc0	Valore della resistenza a compressione parallela
	Resistenza ft0	Valore della resistenza a trazione parallela
	Resistenza fm	Valore della resistenza a flessione
	Resistenza fv	Valore della resistenza a taglio
	Resist. ft0k	Resistenza caratteristica (tensione amm. per REGLES) per trazione
	Resist. fmk	Resistenza caratteristica (tensione amm. per REGLES) per flessione
	Resist. fvk	Resistenza caratteristica (tensione amm. per REGLES) per taglio
	Modulo E0,05	Modulo elastico parallelo caratteristico
	Lamellare	lamellare o massiccio

Nel tabulato si riportano sia i valori caratteristici che medi utilizzando gli uni e/o gli altri in relazione alle richieste di normativa ed alla tipologia di verifica. (Cap.7 NTC18 per materiali nuovi, Cap.8 NTC18 e relativa circolare 21/01/2019 per materiali esistenti, Linee Guida Reluis per incamiciatura CAM, CNR-DT 200 per interventi con FRP)

Vengono inoltre riportate le tabelle contenenti il riassunto delle informazioni assegnate nei criteri di progetto in uso.

Con riferimento al **Documento di Affidabilità** “Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST” - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Modellazione di strutture in c.a.

Test N°	Titolo
41	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
42	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.

43	VERIFICA ALLE TA DI STRUTTURE IN C.A.
44	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
45	VERIFICA A PUNZONAMENTO ALLO SLU DI PIASTRE IN C.A.
46	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
47	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
49	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
50	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
51	FATTORE DI STRUTTURA
52	SOVRARESISTENZE
53	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
54	PARETI IN C.A. SNELLE IN ZONA SISMICA
80	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
120	PROGETTO E VERIFICA DI TRAVI PREM

Modellazione di strutture in acciaio

Test N°	Titolo
55	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
56	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
57	LUCE LIBERA DI COLONNE IN ACCIAIO
58	SVERGOLAMENTO DI TRAVI IN ACCIAIO
59	FATTORE DI STRUTTURA
60	ACCIAIO D.M.2008
61	ACCIAIO EC3
62	GERARCHIA RESISTENZE STRUTTURE IN ACCIAIO
63	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA IRRIGIDIMENTI TRASVERSALI

74	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI UN PIATTO DI RINFORZO SALDATO ALL'ANIMA DELLA COLONNA
75	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI DUE PIATTI DI RINFORZO SALDATI ALL'ANIMA DELLA COLONNA
76	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A DUE VIE SU ALI COLONNA
77	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A UNA VIA CON DUE COMBINAZIONI DI CARICO
78	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO SU ANIMA SENZA RINFORZI A QUATTRO FILE DI BULLONI DI CUI UNA SU PIASTRA INFERIORE E UNA SU PIASTRA SUPERIORE
79	VERIFICA DELLA PIASTRA NODO TRAVE COLONNA
85	TELAIO ACCIAIO: CONTROVENTI CONCENTRICI

Modellazione di strutture in muratura

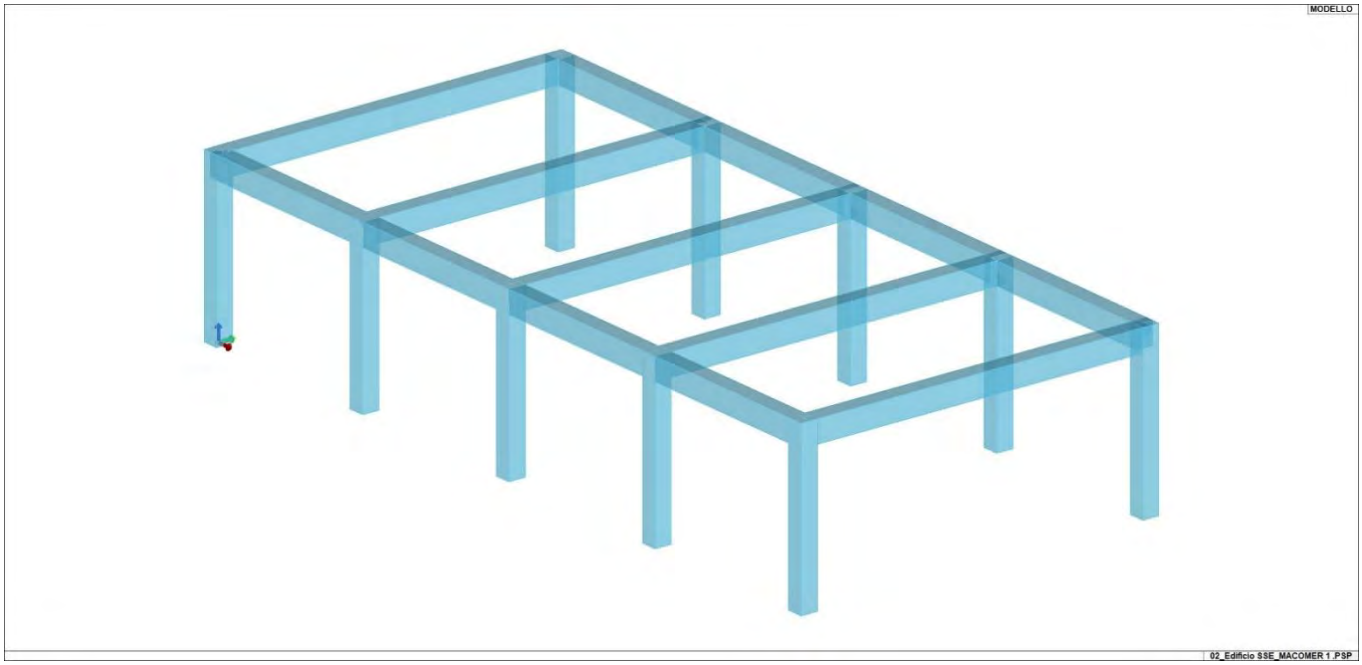
Test N°	Titolo
81	ANALISI PUSHOVER DI UNA STRUTTURA IN MURATURA
84	ANALISI ELASTO PLASTICA INCREMENTALE, PARETE IN MURATURA
86	VERIFICA NON SISMICA DELLE MURATURE (D.M. 87 TA)
87	VERIFICA NON SISMICA DELLE MURATURE (D.M. 2005 SL)
88	FATTORE DI STRUTTURA

Modellazione di strutture in legno

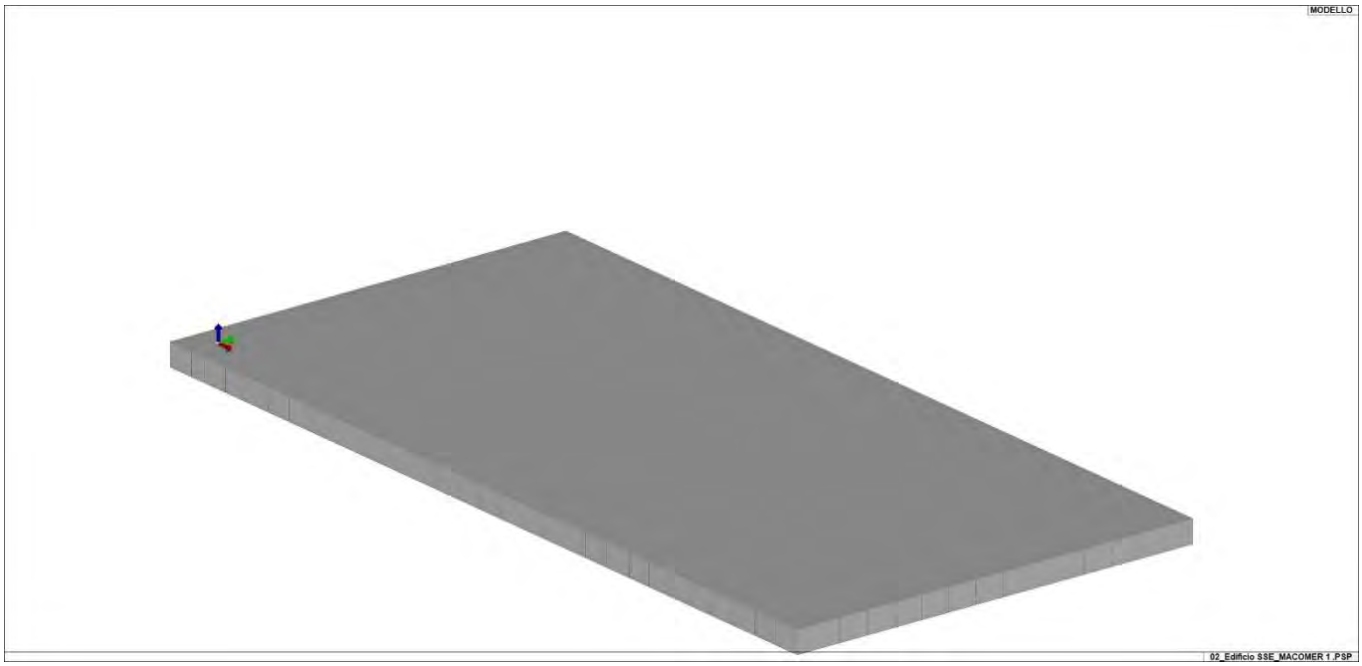
Test N°	Titolo
17	SOLAIO: MISTO LEGNO-CALCESTRUZZO
89	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
90	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
91	FATTORE DI STRUTTURA
92	VERIFICHE EC5

93	SNELLEZZE EC5
94	VERIFICA AL FUOCO DI STRUTTURE IN LEGNO SECONDO EC5
117	PROGETTO E VERIFICA DI GUSCI IN MATERIALE XLAM
118	PROGETTO E VERIFICA DI PARETI IN MATERIALE XLAM E RELATIVI COLLEGAMENTI
119	PROGETTO E VERIFICA DI SOLAI IN MATERIALE XLAM

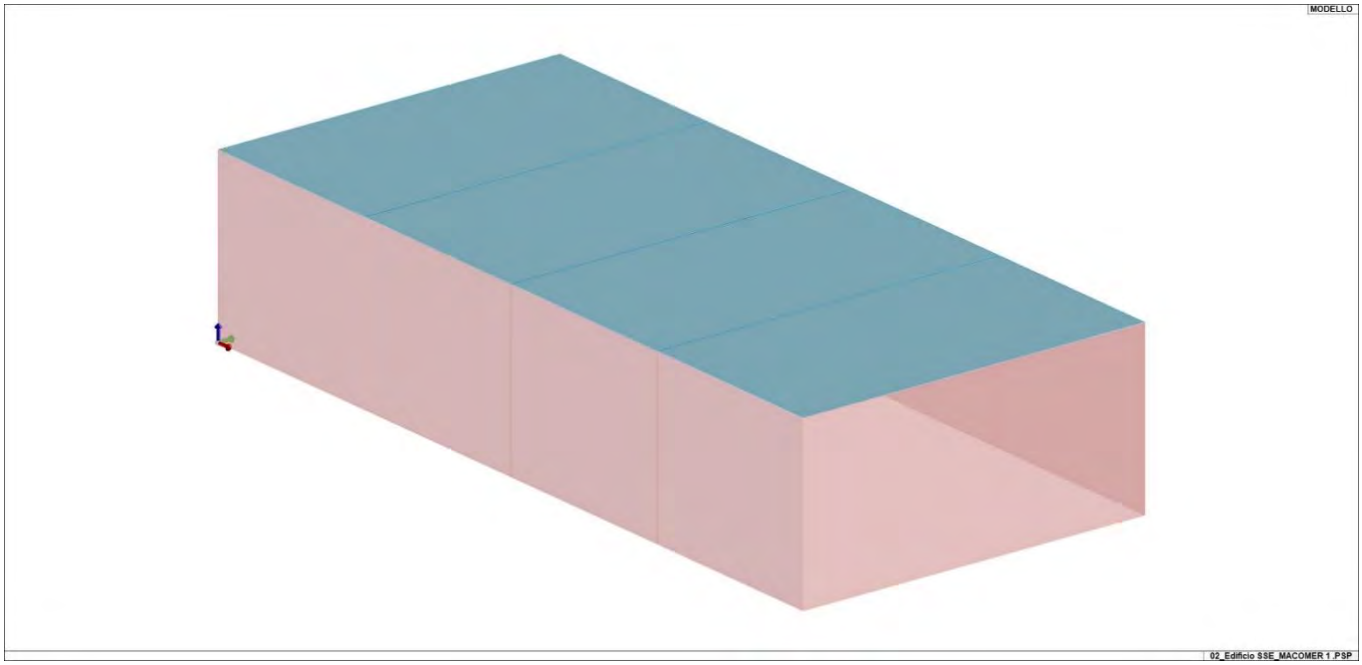
Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
1	Calcestruzzo Classe C25/30			3.145e+05	0.20	1.310e+05	2.50e-03	1.00e-05	
	Resistenza Rc	300.0							
	Resistenza fctm		25.6						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
5	Calcestruzzo Classe C32/40			3.360e+05	0.20	1.400e+05	2.50e-03	1.00e-05	
	Resistenza Rc	400.0							
	Resistenza fctm		31.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
25	Danesi - Isomuro 30.19.25 (25.19.20) e malta di classe M10-muratura E = 6.530e+04			6.530e+04	0.0	1.612e+04	9.00e-04	1.00e-05	
	Resistenza f	65.3							
	Resistenza fh	32.6							
	Resistenza fv0	3.0							
	Resistenza fv0h	3.0							
	Resistenza tau0	1.5							
	Resistenza fvlim	9.4							
	Resistenza fb	144.0							
	Resistenza fbh	32.0							
	Resistenza fbt	10.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05



11_MOD_MATERIALI_D2



11_MOD_MATERIALI_D3



11_MOD_MATERIALI_SOLAI

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Armatura						
Inclinazione Ax [gradi]	0.0					
Angolo Ax-Ay [gradi]	90.00					
Minima tesa	0.31					
Massima tesa	0.78					
Maglia unica centrale	No					
Copriferro [cm]	2.00					
Maglia x						
diametro	10					
passo	20					
diametro aggiuntivi	12					
Maglia y						
diametro	10					
passo	20					
diametro aggiuntivi	12					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00					
Tipo acciaio	tipo C					
Coefficiente gamma s	1.15					
Coefficiente gamma c	1.50					
Verifiche con N costante	Si					
Applica SLU da DIN	No					
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50					
Tensione amm. acciaio [daN/cm2]	2600.00					
Rapporto omogeneizzazione N	15.00					
Massimo rapporto area compressa/tesa	1.00					
Resistenza al fuoco						
3- intradosso	No					
3+ estradosso	No					
Tempo di esposizione R	15					

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetta a filo	No					
Af inf: da q*L*L /	0.0					
Armatura						
Minima tesa	0.31					
Minima compressa	0.31					

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Massima tesa	0.78					
Da sezione	Si					
Usa armatura teorica	No					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00					
Tensione fy staffe [daN/cm2]	4500.00					
Tipo acciaio	tipo C					
Coefficiente gamma s	1.15					
Coefficiente gamma c	1.50					
Verifiche con N costante	Si					
Fattore di ridistribuzione	0.0					
Modello per il confinamento						
Relazione tensio-deformativa	Mander					
Incrudimento acciaio	5.000e-03					
Fattore lambda	1.00					
epsilon max,s	4.000e-02					
epsilon cu2	4.500e-03					
epsilon c2	0.0					
epsilon cy	0.0					
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50					
Tensione amm. acciaio [daN/cm2]	2600.00					
Rapporto omogeneizzazione N	15.00					
Massimo rapporto area compressa/tesa	1.00					
Staffe						
Diametro staffe	0.0					
Passo minimo [cm]	4.00					
Passo massimo [cm]	30.00					
Passo raffittito [cm]	15.00					
Lunghezza zona raffittita [cm]	50.00					
Ctg(Teta) Max	2.50					
Percentuale sagomati	0.0					
Luce di taglio per GR [cm]	1.00					
Adotta scorrimento medio	No					
Torsione non essenziale inclusa	Si					

Pilastri c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Privilegia lati					
Progetta a filo	No					
Effetti del 2 ordine	Si					
Beta per 2-2	1.00					
Beta per 3-3	1.00					
Armatura						
Massima tesa	4.00					
Minima tesa	1.00					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00					
Tensione fy staffe [daN/cm2]	4500.00					
Tipo acciaio	tipo C					
Coefficiente gamma s	1.15					
Coefficiente gamma c	1.50					
Verifiche con N costante	Si					
Modello per il confinamento						
Relazione tensio-deformativa	Mander					
Incrudimento acciaio	5.000e-03					
Fattore lambda	1.00					
epsilon max,s	4.000e-02					
epsilon cu2	4.500e-03					
epsilon c2	0.0					
epsilon cy	0.0					
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50					
Tensione amm. acciaio [daN/cm2]	2600.00					
Rapporto omogeneizzazione N	15.00					
Staffe						
Diametro staffe	0.0					
Passo minimo [cm]	5.00					
Passo massimo [cm]	25.00					
Passo raffittito [cm]	15.00					

Pilastri c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezza zona raffittita [cm]	45.00					
Ctg(Teta) Max	2.50					
Luce di taglio per GR [cm]	1.00					
Massimizza gerarchia	Si					

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	No					
Af inf: da traliccio	Si					
Consenti armatura a taglio	No					
Incrementa armatura longitudinale per taglio	Si					
Af inf: da q*L*L /	20.00					
Incremento fascia piena [cm]	5.00					
Armatura						
Minima tesa	0.15					
Massima tesa	3.00					
Minima compressa	0.0					
Af/h [cm]	7.000e-02					
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00					
Tipo acciaio	tipo C					
Coefficiente gamma s	1.15					
Coefficiente gamma c	1.50					
Fattore di ridistribuzione	0.0					
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	85.00					
Tensione amm. acciaio [daN/cm2]	2600.00					
Rapporto omogeneizzazione N	15.00					
Massimo rapporto area compressa/tesa	1.00					
Verifica freccia						
Infinita	250.00					
Istantanea	500.00					
Fattore viscosità	3.00					
Usa J non fessurato	No					
Elementi non strutturali						
Tamponatura antiespulsione	No					
Tamponatura con armatura	No					
Fattore di struttura/comportamento	2.00					
Coefficiente gamma m	0.0					
Periodo Ta	0.0					
Altezza pannello	0.0					

26. MODELLAZIONE DELLE SEZIONI

26.1. LEGENDA TABELLA DATI SEZIONI

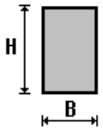
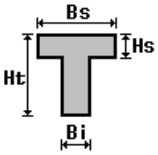
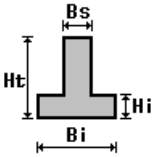
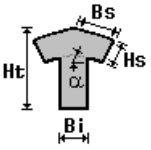
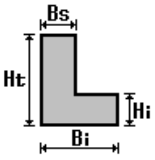
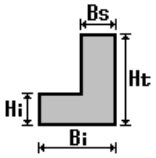
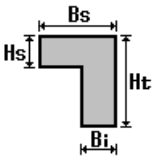
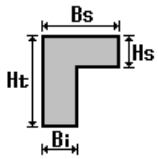
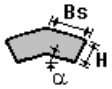
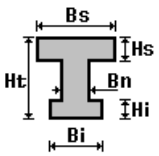
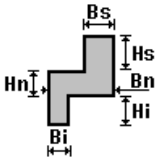
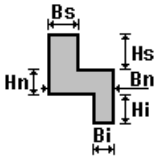
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

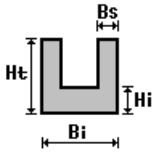
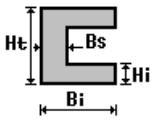
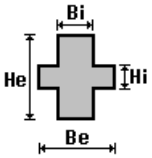
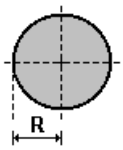
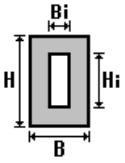
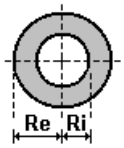
4. sezione di tipo generico
5. profilati semplici
6. profilati accoppiati e speciali

Le sezioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni sezione vengono riportati in tabella i seguenti dati:

Area	area della sezione
A V2	area della sezione/fattore di taglio (per il taglio in direzione 2)
A V3	area della sezione/fattore di taglio (per il taglio in direzione 3)
Jt	fattore torsionale di rigidezza
J2-2	momento d'inerzia della sezione riferito all'asse 2
J3-3	momento d'inerzia della sezione riferito all'asse 3
W2-2	modulo di resistenza della sezione riferito all'asse 2
W3-3	modulo di resistenza della sezione riferito all'asse 3
Wp2-2	modulo di resistenza plastico della sezione riferito all'asse 2
Wp3-3	modulo di resistenza plastico della sezione riferito all'asse 3

I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali delle sezioni è condotta nel riferimento 2-3 dell'elemento.

					
rettangolare	a T	a T rovescia	a T di colmo	a L	a L specchiata
					

a L specchiata rovescia	a L rovescia	a L di colmo	a doppio T	a quattro specchiata	a quattro
					
a U	a C	a croce	circolare	rettangolare cava	circolare cava

Per quanto concerne i profilati semplici ed accoppiati l'asse 2 del riferimento coincide con l'asse x riportato nei più diffusi profilatari.

Per quanto concerne le sezioni di tipo generico (tipo 1.):

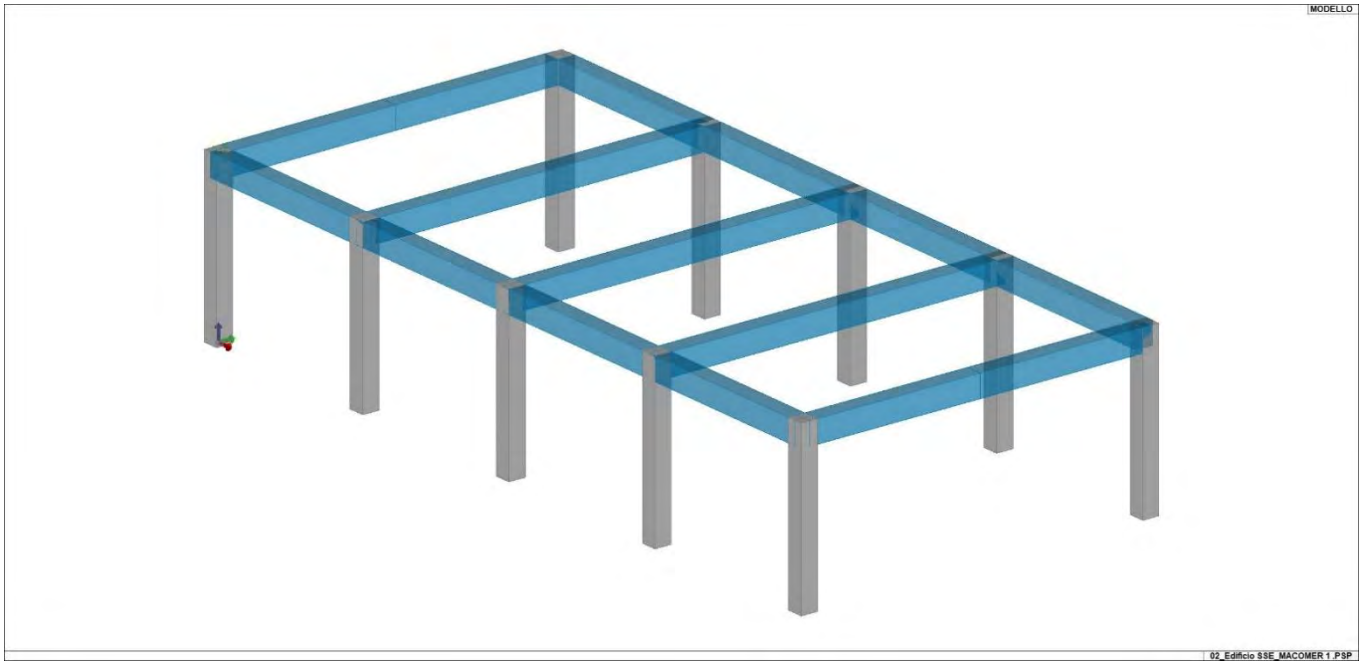
i valori dimensionali con prefisso B sono riferiti all'asse 2

i valori dimensionali con prefisso H sono riferiti all'asse 3

Con riferimento al Documento di Affidabilità "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Settembre 2014, disponibile per il download sul sito www.2si.it, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
1	CARATTERISTICHE GEOMETRICHE E INERZIALI
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
104	ANALISI DI RESISTENZA AL FUOCO

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
1	Rettangolare: b=30.00 h =30.00	900.00	750.00	750.00	1.139e+05	6.750e+04	6.750e+04	4500.00	4500.00	6750.00	6750.00
2	Rettangolare: b=30 h=40	1200.00	1000.00	1000.00	1.946e+05	9.000e+04	1.600e+05	6000.00	8000.00	9000.00	1.200e+04



13_MOD_SEZIONI

27. MODELLAZIONE STRUTTURA: NODI

27.1. LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).

Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di molle viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
Note	(FS = 1, 2,…) eventuale codice del tipo di fondazione speciale (1, 2,… fanno riferimento alle tipologie: plinto, palo, plinto su pali,…) che è collegato al nodo. (ISO = “id SIGLA”) indice e sigla identificativa dell’ eventuale isolatore sismico assegnato al nodo
Rig. TX	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

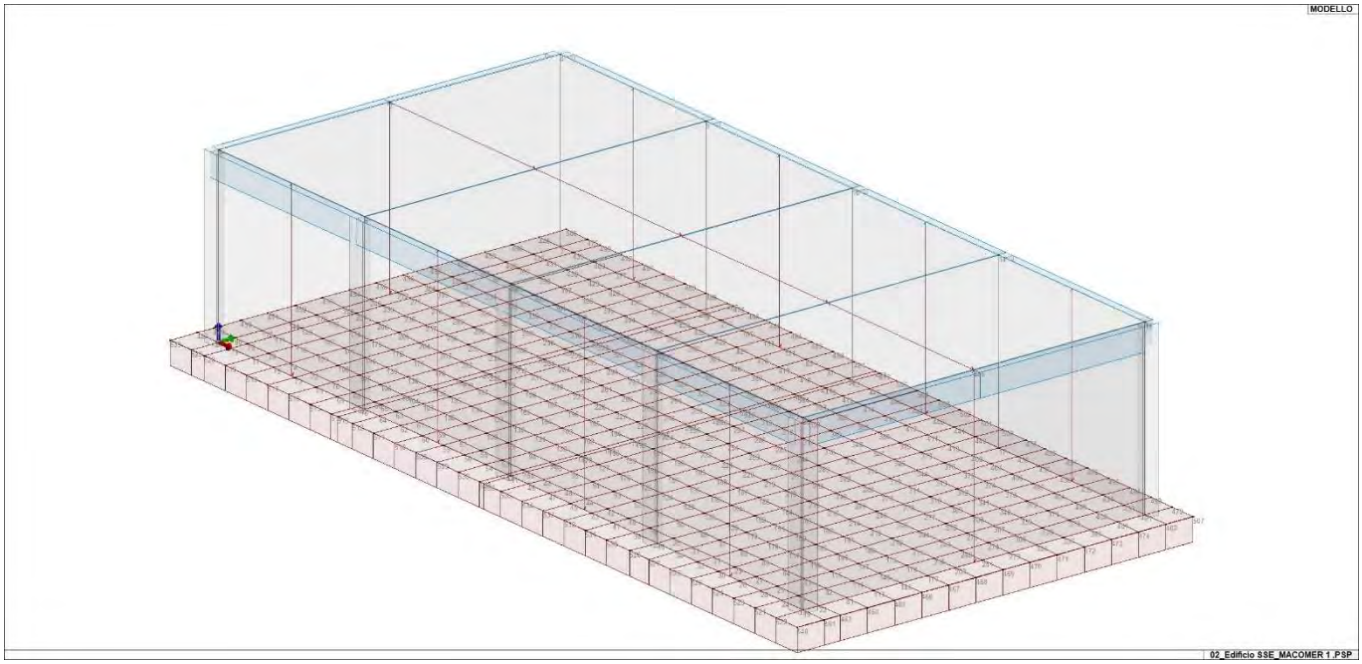
27.1.1. TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	0.0	0.0	0.0	2	0.0	0.0	300.0	3	0.0	630.0	0.0

4	0.0	630.0	300.0	5	345.0	630.0	300.0	6	345.0	0.0	0.0
7	0.0	315.0	300.0	8	345.0	0.0	300.0	9	345.0	630.0	0.0
10	690.0	630.0	300.0	11	690.0	0.0	0.0	12	690.0	0.0	300.0
13	690.0	630.0	0.0	14	1035.0	630.0	300.0	15	1035.0	0.0	0.0
16	1035.0	0.0	300.0	17	1035.0	630.0	0.0	18	1380.0	630.0	300.0
19	1380.0	0.0	0.0	20	1380.0	0.0	300.0	21	1380.0	630.0	0.0
22	1380.0	30.0	0.0	23	1330.0	30.0	0.0	24	1330.0	0.0	0.0
25	1280.0	30.0	0.0	26	1280.0	0.0	0.0	27	1230.0	30.0	0.0
28	1230.0	0.0	0.0	29	1180.0	30.0	0.0	30	1180.0	0.0	0.0
31	1130.0	30.0	0.0	32	1130.0	0.0	0.0	33	1080.0	30.0	0.0
34	1080.0	0.0	0.0	35	1035.0	30.0	0.0	36	680.0	630.0	0.0
37	630.0	630.0	0.0	38	980.0	30.0	0.0	39	980.0	0.0	0.0
40	930.0	30.0	0.0	41	930.0	0.0	0.0	42	880.0	30.0	0.0
43	880.0	0.0	0.0	44	830.0	30.0	0.0	45	830.0	0.0	0.0
46	780.0	30.0	0.0	47	780.0	0.0	0.0	48	730.0	30.0	0.0
49	730.0	0.0	0.0	50	690.0	30.0	0.0	51	680.0	30.0	0.0
52	680.0	0.0	0.0	53	630.0	30.0	0.0	54	630.0	0.0	0.0
55	580.0	30.0	0.0	56	580.0	0.0	0.0	57	530.0	30.0	0.0
58	530.0	0.0	0.0	59	480.0	30.0	0.0	60	480.0	0.0	0.0
61	430.0	30.0	0.0	62	430.0	0.0	0.0	63	380.0	30.0	0.0
64	380.0	0.0	0.0	65	345.0	30.0	0.0	66	330.0	30.0	0.0
67	330.0	0.0	0.0	68	280.0	30.0	0.0	69	280.0	0.0	0.0
70	230.0	30.0	0.0	71	230.0	0.0	0.0	72	180.0	30.0	0.0
73	180.0	0.0	0.0	74	130.0	30.0	0.0	75	130.0	0.0	0.0
76	80.0	30.0	0.0	77	80.0	0.0	0.0	78	30.0	30.0	0.0
79	30.0	0.0	0.0	80	0.0	30.0	0.0	81	1380.0	80.0	0.0
82	1330.0	80.0	0.0	83	1280.0	80.0	0.0	84	1230.0	80.0	0.0
85	1180.0	80.0	0.0	86	1130.0	80.0	0.0	87	1080.0	80.0	0.0
88	1035.0	80.0	0.0	89	580.0	630.0	0.0	90	980.0	80.0	0.0
91	930.0	80.0	0.0	92	880.0	80.0	0.0	93	830.0	80.0	0.0
94	780.0	80.0	0.0	95	730.0	80.0	0.0	96	690.0	80.0	0.0
97	680.0	80.0	0.0	98	630.0	80.0	0.0	99	580.0	80.0	0.0
100	530.0	80.0	0.0	101	480.0	80.0	0.0	102	430.0	80.0	0.0
103	380.0	80.0	0.0	104	345.0	80.0	0.0	105	330.0	80.0	0.0
106	280.0	80.0	0.0	107	230.0	80.0	0.0	108	180.0	80.0	0.0
109	130.0	80.0	0.0	110	80.0	80.0	0.0	111	30.0	80.0	0.0
112	0.0	80.0	0.0	113	1380.0	130.0	0.0	114	1330.0	130.0	0.0
115	1280.0	130.0	0.0	116	1230.0	130.0	0.0	117	1180.0	130.0	0.0
118	1130.0	130.0	0.0	119	1080.0	130.0	0.0	120	1035.0	130.0	0.0
121	530.0	630.0	0.0	122	980.0	130.0	0.0	123	930.0	130.0	0.0
124	880.0	130.0	0.0	125	830.0	130.0	0.0	126	780.0	130.0	0.0
127	730.0	130.0	0.0	128	690.0	130.0	0.0	129	680.0	130.0	0.0
130	630.0	130.0	0.0	131	580.0	130.0	0.0	132	530.0	130.0	0.0
133	480.0	130.0	0.0	134	430.0	130.0	0.0	135	380.0	130.0	0.0
136	345.0	130.0	0.0	137	330.0	130.0	0.0	138	280.0	130.0	0.0
139	230.0	130.0	0.0	140	180.0	130.0	0.0	141	130.0	130.0	0.0
142	80.0	130.0	0.0	143	30.0	130.0	0.0	144	0.0	130.0	0.0
145	1380.0	180.0	0.0	146	1330.0	180.0	0.0	147	1280.0	180.0	0.0
148	1230.0	180.0	0.0	149	1180.0	180.0	0.0	150	1130.0	180.0	0.0
151	1080.0	180.0	0.0	152	1035.0	180.0	0.0	153	480.0	630.0	0.0
154	980.0	180.0	0.0	155	930.0	180.0	0.0	156	880.0	180.0	0.0
157	830.0	180.0	0.0	158	780.0	180.0	0.0	159	730.0	180.0	0.0
160	690.0	180.0	0.0	161	680.0	180.0	0.0	162	630.0	180.0	0.0
163	580.0	180.0	0.0	164	530.0	180.0	0.0	165	480.0	180.0	0.0
166	430.0	180.0	0.0	167	380.0	180.0	0.0	168	345.0	180.0	0.0
169	330.0	180.0	0.0	170	280.0	180.0	0.0	171	230.0	180.0	0.0
172	180.0	180.0	0.0	173	130.0	180.0	0.0	174	80.0	180.0	0.0
175	30.0	180.0	0.0	176	0.0	180.0	0.0	177	1380.0	230.0	0.0
178	1330.0	230.0	0.0	179	1280.0	230.0	0.0	180	1230.0	230.0	0.0
181	1180.0	230.0	0.0	182	1130.0	230.0	0.0	183	1080.0	230.0	0.0
184	1035.0	230.0	0.0	185	430.0	630.0	0.0	186	980.0	230.0	0.0
187	930.0	230.0	0.0	188	880.0	230.0	0.0	189	830.0	230.0	0.0
190	780.0	230.0	0.0	191	730.0	230.0	0.0	192	690.0	230.0	0.0
193	680.0	230.0	0.0	194	630.0	230.0	0.0	195	580.0	230.0	0.0
196	530.0	230.0	0.0	197	480.0	230.0	0.0	198	430.0	230.0	0.0
199	380.0	230.0	0.0	200	345.0	230.0	0.0	201	330.0	230.0	0.0
202	280.0	230.0	0.0	203	230.0	230.0	0.0	204	180.0	230.0	0.0
205	130.0	230.0	0.0	206	80.0	230.0	0.0	207	30.0	230.0	0.0
208	0.0	230.0	0.0	209	1380.0	280.0	0.0	210	1330.0	280.0	0.0
211	1280.0	280.0	0.0	212	1230.0	280.0	0.0	213	1180.0	280.0	0.0
214	1130.0	280.0	0.0	215	1080.0	280.0	0.0	216	1035.0	280.0	0.0
217	380.0	630.0	0.0	218	980.0	280.0	0.0	219	930.0	280.0	0.0
220	880.0	280.0	0.0	221	830.0	280.0	0.0	222	780.0	280.0	0.0
223	730.0	280.0	0.0	224	690.0	280.0	0.0	225	680.0	280.0	0.0
226	630.0	280.0	0.0	227	580.0	280.0	0.0	228	530.0	280.0	0.0
229	480.0	280.0	0.0	230	430.0	280.0	0.0	231	380.0	280.0	0.0

232	345.0	280.0	0.0	233	330.0	280.0	0.0	234	280.0	280.0	0.0
235	230.0	280.0	0.0	236	180.0	280.0	0.0	237	130.0	280.0	0.0
238	80.0	280.0	0.0	239	30.0	280.0	0.0	240	0.0	280.0	0.0
241	1380.0	330.0	0.0	242	1330.0	330.0	0.0	243	1280.0	330.0	0.0
244	1230.0	330.0	0.0	245	1180.0	330.0	0.0	246	1130.0	330.0	0.0
247	1080.0	330.0	0.0	248	1035.0	330.0	0.0	249	330.0	630.0	0.0
250	980.0	330.0	0.0	251	930.0	330.0	0.0	252	880.0	330.0	0.0
253	830.0	330.0	0.0	254	780.0	330.0	0.0	255	730.0	330.0	0.0
256	690.0	330.0	0.0	257	680.0	330.0	0.0	258	630.0	330.0	0.0
259	580.0	330.0	0.0	260	530.0	330.0	0.0	261	480.0	330.0	0.0
262	430.0	330.0	0.0	263	380.0	330.0	0.0	264	345.0	330.0	0.0
265	330.0	330.0	0.0	266	280.0	330.0	0.0	267	230.0	330.0	0.0
268	180.0	330.0	0.0	269	130.0	330.0	0.0	270	80.0	330.0	0.0
271	30.0	330.0	0.0	272	0.0	330.0	0.0	273	1380.0	380.0	0.0
274	1330.0	380.0	0.0	275	1280.0	380.0	0.0	276	1230.0	380.0	0.0
277	1180.0	380.0	0.0	278	1130.0	380.0	0.0	279	1080.0	380.0	0.0
280	1035.0	380.0	0.0	281	280.0	630.0	0.0	282	980.0	380.0	0.0
283	930.0	380.0	0.0	284	880.0	380.0	0.0	285	830.0	380.0	0.0
286	780.0	380.0	0.0	287	730.0	380.0	0.0	288	690.0	380.0	0.0
289	680.0	380.0	0.0	290	630.0	380.0	0.0	291	580.0	380.0	0.0
292	530.0	380.0	0.0	293	480.0	380.0	0.0	294	430.0	380.0	0.0
295	380.0	380.0	0.0	296	345.0	380.0	0.0	297	330.0	380.0	0.0
298	280.0	380.0	0.0	299	230.0	380.0	0.0	300	180.0	380.0	0.0
301	130.0	380.0	0.0	302	80.0	380.0	0.0	303	30.0	380.0	0.0
304	0.0	380.0	0.0	305	1380.0	430.0	0.0	306	1330.0	430.0	0.0
307	1280.0	430.0	0.0	308	1230.0	430.0	0.0	309	1180.0	430.0	0.0
310	1130.0	430.0	0.0	311	1080.0	430.0	0.0	312	1035.0	430.0	0.0
313	230.0	630.0	0.0	314	980.0	430.0	0.0	315	930.0	430.0	0.0
316	880.0	430.0	0.0	317	830.0	430.0	0.0	318	780.0	430.0	0.0
319	730.0	430.0	0.0	320	690.0	430.0	0.0	321	680.0	430.0	0.0
322	630.0	430.0	0.0	323	580.0	430.0	0.0	324	530.0	430.0	0.0
325	480.0	430.0	0.0	326	430.0	430.0	0.0	327	380.0	430.0	0.0
328	345.0	430.0	0.0	329	330.0	430.0	0.0	330	280.0	430.0	0.0
331	230.0	430.0	0.0	332	180.0	430.0	0.0	333	130.0	430.0	0.0
334	80.0	430.0	0.0	335	30.0	430.0	0.0	336	0.0	430.0	0.0
337	1380.0	480.0	0.0	338	1330.0	480.0	0.0	339	1280.0	480.0	0.0
340	1230.0	480.0	0.0	341	1180.0	480.0	0.0	342	1130.0	480.0	0.0
343	1080.0	480.0	0.0	344	1035.0	480.0	0.0	345	180.0	630.0	0.0
346	980.0	480.0	0.0	347	930.0	480.0	0.0	348	880.0	480.0	0.0
349	830.0	480.0	0.0	350	780.0	480.0	0.0	351	730.0	480.0	0.0
352	690.0	480.0	0.0	353	680.0	480.0	0.0	354	630.0	480.0	0.0
355	580.0	480.0	0.0	356	530.0	480.0	0.0	357	480.0	480.0	0.0
358	430.0	480.0	0.0	359	380.0	480.0	0.0	360	345.0	480.0	0.0
361	330.0	480.0	0.0	362	280.0	480.0	0.0	363	230.0	480.0	0.0
364	180.0	480.0	0.0	365	130.0	480.0	0.0	366	80.0	480.0	0.0
367	30.0	480.0	0.0	368	0.0	480.0	0.0	369	1380.0	530.0	0.0
370	1330.0	530.0	0.0	371	1280.0	530.0	0.0	372	1230.0	530.0	0.0
373	1180.0	530.0	0.0	374	1130.0	530.0	0.0	375	1080.0	530.0	0.0
376	1035.0	530.0	0.0	377	130.0	630.0	0.0	378	980.0	530.0	0.0
379	930.0	530.0	0.0	380	880.0	530.0	0.0	381	830.0	530.0	0.0
382	780.0	530.0	0.0	383	730.0	530.0	0.0	384	690.0	530.0	0.0
385	680.0	530.0	0.0	386	630.0	530.0	0.0	387	580.0	530.0	0.0
388	530.0	530.0	0.0	389	480.0	530.0	0.0	390	430.0	530.0	0.0
391	380.0	530.0	0.0	392	345.0	530.0	0.0	393	330.0	530.0	0.0
394	280.0	530.0	0.0	395	230.0	530.0	0.0	396	180.0	530.0	0.0
397	130.0	530.0	0.0	398	80.0	530.0	0.0	399	30.0	530.0	0.0
400	0.0	530.0	0.0	401	1380.0	580.0	0.0	402	1330.0	580.0	0.0
403	1280.0	580.0	0.0	404	1230.0	580.0	0.0	405	1180.0	580.0	0.0
406	1130.0	580.0	0.0	407	1080.0	580.0	0.0	408	1035.0	580.0	0.0
409	80.0	630.0	0.0	410	980.0	580.0	0.0	411	930.0	580.0	0.0
412	880.0	580.0	0.0	413	830.0	580.0	0.0	414	780.0	580.0	0.0
415	730.0	580.0	0.0	416	690.0	580.0	0.0	417	680.0	580.0	0.0
418	630.0	580.0	0.0	419	580.0	580.0	0.0	420	530.0	580.0	0.0
421	480.0	580.0	0.0	422	430.0	580.0	0.0	423	380.0	580.0	0.0
424	345.0	580.0	0.0	425	330.0	580.0	0.0	426	280.0	580.0	0.0
427	230.0	580.0	0.0	428	180.0	580.0	0.0	429	130.0	580.0	0.0
430	80.0	580.0	0.0	431	30.0	580.0	0.0	432	0.0	580.0	0.0
433	1330.0	630.0	0.0	434	1280.0	630.0	0.0	435	1230.0	630.0	0.0
436	1180.0	630.0	0.0	437	1130.0	630.0	0.0	438	1080.0	630.0	0.0
439	30.0	630.0	0.0	440	980.0	630.0	0.0	441	930.0	630.0	0.0
442	880.0	630.0	0.0	443	830.0	630.0	0.0	444	780.0	630.0	0.0
445	730.0	630.0	0.0	446	1380.0	315.0	300.0	447	-50.0	0.0	0.0
448	-50.0	630.0	0.0	449	-50.0	30.0	0.0	450	-50.0	80.0	0.0
451	-50.0	130.0	0.0	452	-50.0	180.0	0.0	453	-50.0	230.0	0.0
454	-50.0	280.0	0.0	455	-50.0	330.0	0.0	456	-50.0	380.0	0.0
457	-50.0	430.0	0.0	458	-50.0	480.0	0.0	459	-50.0	530.0	0.0

460	-50.0	580.0	0.0	461	1430.0	0.0	0.0	462	1430.0	630.0	0.0
463	1430.0	30.0	0.0	464	1430.0	80.0	0.0	465	1430.0	130.0	0.0
466	1430.0	180.0	0.0	467	1430.0	230.0	0.0	468	1430.0	280.0	0.0
469	1430.0	330.0	0.0	470	1430.0	380.0	0.0	471	1430.0	430.0	0.0
472	1430.0	480.0	0.0	473	1430.0	530.0	0.0	474	1430.0	580.0	0.0
475	0.0	680.0	0.0	476	345.0	680.0	0.0	477	690.0	680.0	0.0
478	1035.0	680.0	0.0	479	1380.0	680.0	0.0	480	680.0	680.0	0.0
481	630.0	680.0	0.0	482	580.0	680.0	0.0	483	530.0	680.0	0.0
484	480.0	680.0	0.0	485	430.0	680.0	0.0	486	380.0	680.0	0.0
487	330.0	680.0	0.0	488	280.0	680.0	0.0	489	230.0	680.0	0.0
490	180.0	680.0	0.0	491	130.0	680.0	0.0	492	80.0	680.0	0.0
493	1330.0	680.0	0.0	494	1280.0	680.0	0.0	495	1230.0	680.0	0.0
496	1180.0	680.0	0.0	497	1130.0	680.0	0.0	498	1080.0	680.0	0.0
499	30.0	680.0	0.0	500	980.0	680.0	0.0	501	930.0	680.0	0.0
502	880.0	680.0	0.0	503	830.0	680.0	0.0	504	780.0	680.0	0.0
505	730.0	680.0	0.0	506	-50.0	680.0	0.0	507	1430.0	680.0	0.0
508	530.0	-50.0	0.0	509	580.0	-50.0	0.0	510	480.0	-50.0	0.0
511	430.0	-50.0	0.0	512	380.0	-50.0	0.0	513	345.0	-50.0	0.0
514	330.0	-50.0	0.0	515	280.0	-50.0	0.0	516	230.0	-50.0	0.0
517	180.0	-50.0	0.0	518	130.0	-50.0	0.0	519	80.0	-50.0	0.0
520	30.0	-50.0	0.0	521	1330.0	-50.0	0.0	522	1380.0	-50.0	0.0
523	1280.0	-50.0	0.0	524	1230.0	-50.0	0.0	525	1180.0	-50.0	0.0
526	1130.0	-50.0	0.0	527	1080.0	-50.0	0.0	528	1035.0	-50.0	0.0
529	0.0	-50.0	0.0	530	980.0	-50.0	0.0	531	930.0	-50.0	0.0
532	880.0	-50.0	0.0	533	830.0	-50.0	0.0	534	780.0	-50.0	0.0
535	730.0	-50.0	0.0	536	690.0	-50.0	0.0	537	680.0	-50.0	0.0
538	630.0	-50.0	0.0	539	-50.0	-50.0	0.0	540	1430.0	-50.0	0.0



14_MOD_NUMERAZIONE_NODI

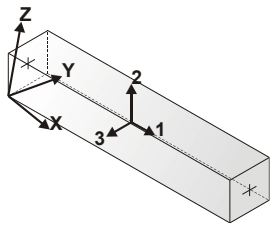
28. MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

28.1. TABELLA DATI TRAVI

Il programma utilizza per la modellazione elementi a due nodi denominati in generale travi.

Ogni elemento trave è individuato dal nodo iniziale e dal nodo finale.

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



orientamento elementi 2D non verticali

orientamento elementi 2D verticali

In particolare per ogni elemento viene indicato in tabella:

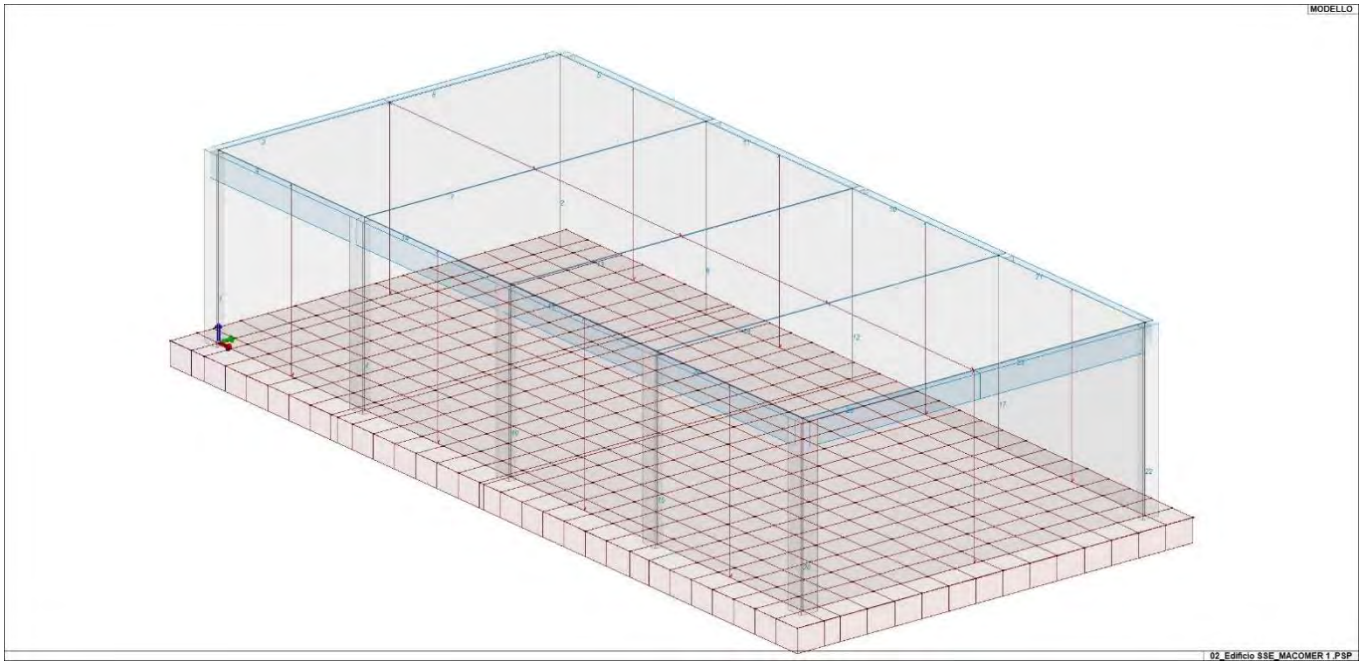
Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione dell'elemento, attorno al proprio asse, nel caso in cui l'orientamento di default non sia adottabile; l'orientamento di default prevede per gli elementi non verticali l'asse 2 contenuto nel piano verticale e l'asse 3 orizzontale, per gli elementi verticali l'asse 2 diretto secondo X negativo e l'asse 3 diretto secondo Y negativo
Svincolo I (J)	codici di svincolo per le azioni interne; i primi sei codici si riferiscono al nodo iniziale, i restanti sei al nodo finale (il valore 1 indica che la relativa azione interna non è attiva)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione della trave su suolo elastico
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

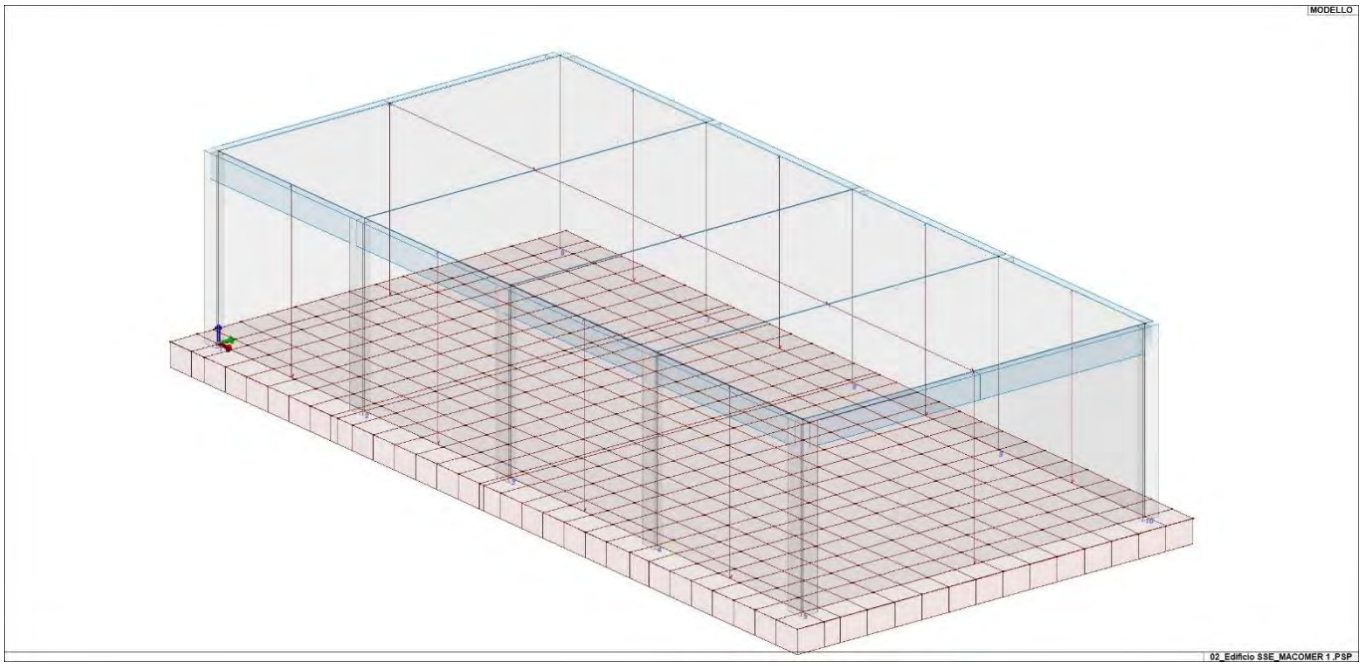
Test N°	Titolo
2	TRAVI A UNA CAMPATA
3	TRAVE A PIU' CAMPATE
4	TRAVE A UNA CAMPATA SU TERRENO ALLA WINKLER
5	TRAVI SU TERRENO ALLA WINKLER CON CARICO TRASVERSALE
6	TELAI PIANI CON CERNIERE ALLA BASE
7	TELAI PIANI CON INCASTRI ALLA BASE
11	STRUTTURE SOGGETTE A VARIAZIONI TERMICHE
12	STRUTTURE SU TERRENO ALLA WINKLER SOTTOPOSTE A CARICHI DISTRIBUITI TRIANGOLARI
21	DRILLING
24	TENSIONI E ROTAZIONI RISPETTO ALLA CORDA DI ELEMENTI TRAVE
27	FRECCIA DI ELEMENTI TRAVE
42	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
43	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
44	VERIFICA ALLE TA DI STRUTTURE IN C.A.
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
47	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
52	FATTORE DI STRUTTURA
53	SOVRARESISTENZE
54	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO

56	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
57	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
58	LUCE LIBERA DI COLONNE IN ACCIAIO
59	SVERGOLAMENTO DI TRAVI IN ACCIAIO
64	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	VALUTAZIONE EFFETTO P-δ SU PILASTRATA
74	VALUTAZIONE EFFETTO P-δ SU TELAIO 3D
85	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
87	ANALISI ELASTO PLASTICA INCREMENTALE
88	ANALISI ELASTO PLASTICA INCREMENTALE
98	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
99	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
102	SNELLEZZE EC5
130	PROGETTO E VERIFICA DI TRAVI PREM

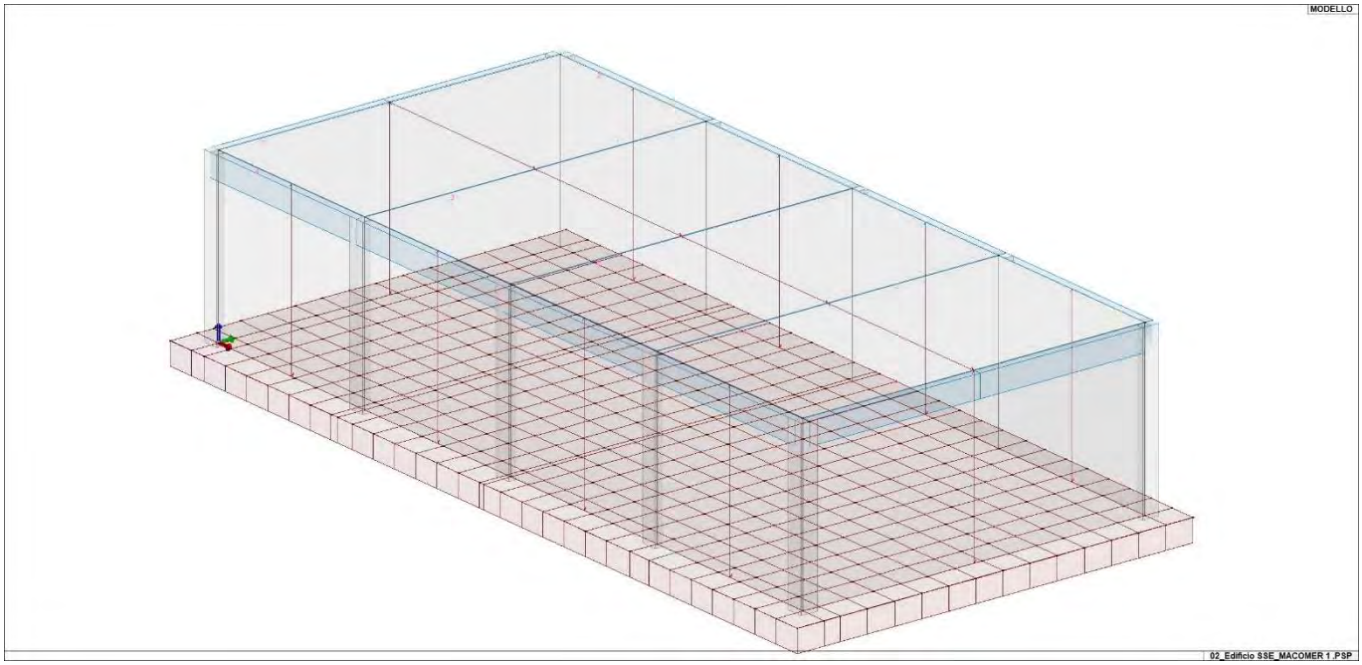
Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Pilas.	1	2	5	1					
2	Pilas.	3	4	5	1					
3	Trave	2	7	5	2					
4	Pilas.	6	8	5	1					
5	Trave	4	5	5	2					
6	Pilas.	9	5	5	1					
7	Trave	8	5	5	2					
8	Trave	7	4	5	2					
9	Trave	2	8	5	2					
10	Pilas.	11	12	5	1					
11	Trave	5	10	5	2					
12	Pilas.	13	10	5	1					
13	Trave	12	10	5	2					
14	Trave	8	12	5	2					
15	Pilas.	15	16	5	1					
16	Trave	10	14	5	2					
17	Pilas.	17	14	5	1					
18	Trave	16	14	5	2					
19	Trave	12	16	5	2					
20	Pilas.	19	20	5	1					
21	Trave	14	18	5	2					
22	Pilas.	21	18	5	1					
23	Trave	20	446	5	2					
24	Trave	16	20	5	2					
25	Trave	446	18	5	2					



15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_PILASTRATE



15_MOD_NUMERAZIONE_D2_TRAVATE

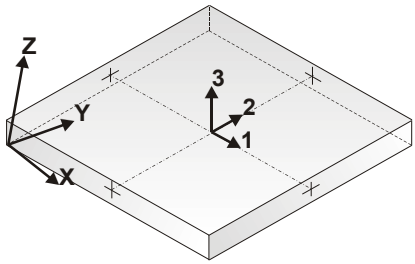
29. MODELLAZIONE STRUTTURA: ELEMENTI SHELL

29.1. LEGENDA TABELLA DATI SHELL

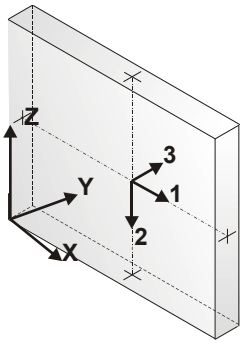
Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell.

Ogni elemento shell è individuato dai nodi I, J, K, L (L=I per gli elementi a tre nodi).

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



orientamento elementi 3D non verticali



orientamento elementi 3D verticali

In particolare per ogni elemento viene indicato in tabella:

Elem.	numero dell'elemento
Note	codice di comportamento: *Guscio* (elemento guscio in elevazione non verticale) *Guscio fond.* (elemento guscio su suolo elastico) *Setto* (elemento guscio in elevazione verticale) *Membrana* (elemento guscio con comportamento membranale)
Nodo I (J, K, L)	numero del nodo I (J, K, L)
Mat.	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico verticale
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
8	MENSOLE CON ELEMENTI PLATE E MATERIALE ORTOTROPO
10	PIASTRA CON ELEMENTI PLATE E MATERIALE ORTOTROPO
21	DRILLING
25	TENSIONI DI ELEMENTI PLATE
31	REALIZZAZIONE DI MESH PIANA SU GEOMETRIA CON PUNTI FISSI IMPORTATA DA FILE .DXF
32	REALIZZAZIONE DI MESH PIANA SU GEOMETRIA CON SEGMENTI E FORI INTERNI IMPORTATA DA FILE .DXF
33	REALIZZAZIONE DI MESH PIANE SU GEOMETRIE COSTRUITE IN PRO_SAP
34	ANALISI DI BUCKLING DI PIASTRA ISOTROPA
35	ANALISI DI BUCKLING DI UN CILINDRO COMPRESSO INCASTRATO ALLA BASE
36	ANALISI DI PARETI FORATE
37	BIMETALLIC STRIP (NAFEMS EXERCISE 6)
38	ANALISI ELASTICA DI PIASTRA CON INTAGLIO CIRCOLARE (FLAT BAR WITH EDGE NOTCHES-NAFEMS EXERCISE 9)
39	PLATEA NERVATA
45	VERIFICA A PUNZONAMENTO ALLO SLU DI PIASTRE IN C.A.
117	PROGETTO E VERIFICA DI GUSCI IN MATERIALE XLAM
118	PROGETTO E VERIFICA DI PARETI IN MATERIALE XLAM E RELATIVI COLLEGAMENTI

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Spessore cm	Svincolo	Wink V daN/cm3	Wink O daN/cm3
1	Guscio fond.	24	19	22	23	1	40.0		1.00	1.00
2	Guscio fond.	26	24	23	25	1	40.0		1.00	1.00
3	Guscio fond.	28	26	25	27	1	40.0		1.00	1.00
4	Guscio fond.	30	28	27	29	1	40.0		1.00	1.00
5	Guscio fond.	32	30	29	31	1	40.0		1.00	1.00
6	Guscio fond.	34	32	31	33	1	40.0		1.00	1.00
7	Guscio fond.	15	34	33	35	1	40.0		1.00	1.00
8	Guscio fond.	420	419	89	121	1	40.0		1.00	1.00
9	Guscio fond.	39	15	35	38	1	40.0		1.00	1.00
10	Guscio fond.	41	39	38	40	1	40.0		1.00	1.00
11	Guscio fond.	43	41	40	42	1	40.0		1.00	1.00
12	Guscio fond.	45	43	42	44	1	40.0		1.00	1.00
13	Guscio fond.	47	45	44	46	1	40.0		1.00	1.00

14	Guscio fond.	49	47	46	48	1	40.0	1.00	1.00
15	Guscio fond.	11	49	48	50	1	40.0	1.00	1.00
16	Guscio fond.	52	11	50	51	1	40.0	1.00	1.00
17	Guscio fond.	54	52	51	53	1	40.0	1.00	1.00
18	Guscio fond.	56	54	53	55	1	40.0	1.00	1.00
19	Guscio fond.	58	56	55	57	1	40.0	1.00	1.00
20	Guscio fond.	60	58	57	59	1	40.0	1.00	1.00
21	Guscio fond.	62	60	59	61	1	40.0	1.00	1.00
22	Guscio fond.	64	62	61	63	1	40.0	1.00	1.00
23	Guscio fond.	6	64	63	65	1	40.0	1.00	1.00
24	Guscio fond.	67	6	65	66	1	40.0	1.00	1.00
25	Guscio fond.	69	67	66	68	1	40.0	1.00	1.00
26	Guscio fond.	71	69	68	70	1	40.0	1.00	1.00
27	Guscio fond.	73	71	70	72	1	40.0	1.00	1.00
28	Guscio fond.	75	73	72	74	1	40.0	1.00	1.00
29	Guscio fond.	77	75	74	76	1	40.0	1.00	1.00
30	Guscio fond.	79	77	76	78	1	40.0	1.00	1.00
31	Guscio fond.	1	79	78	80	1	40.0	1.00	1.00
32	Guscio fond.	23	22	81	82	1	40.0	1.00	1.00
33	Guscio fond.	25	23	82	83	1	40.0	1.00	1.00
34	Guscio fond.	27	25	83	84	1	40.0	1.00	1.00
35	Guscio fond.	29	27	84	85	1	40.0	1.00	1.00
36	Guscio fond.	31	29	85	86	1	40.0	1.00	1.00
37	Guscio fond.	33	31	86	87	1	40.0	1.00	1.00
38	Guscio fond.	35	33	87	88	1	40.0	1.00	1.00
39	Guscio fond.	421	420	121	153	1	40.0	1.00	1.00
40	Guscio fond.	38	35	88	90	1	40.0	1.00	1.00
41	Guscio fond.	40	38	90	91	1	40.0	1.00	1.00
42	Guscio fond.	42	40	91	92	1	40.0	1.00	1.00
43	Guscio fond.	44	42	92	93	1	40.0	1.00	1.00
44	Guscio fond.	46	44	93	94	1	40.0	1.00	1.00
45	Guscio fond.	48	46	94	95	1	40.0	1.00	1.00
46	Guscio fond.	50	48	95	96	1	40.0	1.00	1.00
47	Guscio fond.	51	50	96	97	1	40.0	1.00	1.00
48	Guscio fond.	53	51	97	98	1	40.0	1.00	1.00
49	Guscio fond.	55	53	98	99	1	40.0	1.00	1.00
50	Guscio fond.	57	55	99	100	1	40.0	1.00	1.00
51	Guscio fond.	59	57	100	101	1	40.0	1.00	1.00
52	Guscio fond.	61	59	101	102	1	40.0	1.00	1.00
53	Guscio fond.	63	61	102	103	1	40.0	1.00	1.00
54	Guscio fond.	65	63	103	104	1	40.0	1.00	1.00
55	Guscio fond.	66	65	104	105	1	40.0	1.00	1.00
56	Guscio fond.	68	66	105	106	1	40.0	1.00	1.00
57	Guscio fond.	70	68	106	107	1	40.0	1.00	1.00
58	Guscio fond.	72	70	107	108	1	40.0	1.00	1.00
59	Guscio fond.	74	72	108	109	1	40.0	1.00	1.00
60	Guscio fond.	76	74	109	110	1	40.0	1.00	1.00
61	Guscio fond.	78	76	110	111	1	40.0	1.00	1.00
62	Guscio fond.	80	78	111	112	1	40.0	1.00	1.00
63	Guscio fond.	82	81	113	114	1	40.0	1.00	1.00
64	Guscio fond.	83	82	114	115	1	40.0	1.00	1.00
65	Guscio fond.	84	83	115	116	1	40.0	1.00	1.00
66	Guscio fond.	85	84	116	117	1	40.0	1.00	1.00
67	Guscio fond.	86	85	117	118	1	40.0	1.00	1.00
68	Guscio fond.	87	86	118	119	1	40.0	1.00	1.00
69	Guscio fond.	88	87	119	120	1	40.0	1.00	1.00
70	Guscio fond.	422	421	153	185	1	40.0	1.00	1.00
71	Guscio fond.	90	88	120	122	1	40.0	1.00	1.00
72	Guscio fond.	91	90	122	123	1	40.0	1.00	1.00
73	Guscio fond.	92	91	123	124	1	40.0	1.00	1.00
74	Guscio fond.	93	92	124	125	1	40.0	1.00	1.00
75	Guscio fond.	94	93	125	126	1	40.0	1.00	1.00
76	Guscio fond.	95	94	126	127	1	40.0	1.00	1.00
77	Guscio fond.	96	95	127	128	1	40.0	1.00	1.00
78	Guscio fond.	97	96	128	129	1	40.0	1.00	1.00
79	Guscio fond.	98	97	129	130	1	40.0	1.00	1.00
80	Guscio fond.	99	98	130	131	1	40.0	1.00	1.00
81	Guscio fond.	100	99	131	132	1	40.0	1.00	1.00
82	Guscio fond.	101	100	132	133	1	40.0	1.00	1.00
83	Guscio fond.	102	101	133	134	1	40.0	1.00	1.00
84	Guscio fond.	103	102	134	135	1	40.0	1.00	1.00
85	Guscio fond.	104	103	135	136	1	40.0	1.00	1.00
86	Guscio fond.	105	104	136	137	1	40.0	1.00	1.00
87	Guscio fond.	106	105	137	138	1	40.0	1.00	1.00
88	Guscio fond.	107	106	138	139	1	40.0	1.00	1.00
89	Guscio fond.	108	107	139	140	1	40.0	1.00	1.00

90	Guscio fond.	109	108	140	141	1	40.0	1.00	1.00
91	Guscio fond.	110	109	141	142	1	40.0	1.00	1.00
92	Guscio fond.	111	110	142	143	1	40.0	1.00	1.00
93	Guscio fond.	112	111	143	144	1	40.0	1.00	1.00
94	Guscio fond.	114	113	145	146	1	40.0	1.00	1.00
95	Guscio fond.	115	114	146	147	1	40.0	1.00	1.00
96	Guscio fond.	116	115	147	148	1	40.0	1.00	1.00
97	Guscio fond.	117	116	148	149	1	40.0	1.00	1.00
98	Guscio fond.	118	117	149	150	1	40.0	1.00	1.00
99	Guscio fond.	119	118	150	151	1	40.0	1.00	1.00
100	Guscio fond.	120	119	151	152	1	40.0	1.00	1.00
101	Guscio fond.	423	422	185	217	1	40.0	1.00	1.00
102	Guscio fond.	122	120	152	154	1	40.0	1.00	1.00
103	Guscio fond.	123	122	154	155	1	40.0	1.00	1.00
104	Guscio fond.	124	123	155	156	1	40.0	1.00	1.00
105	Guscio fond.	125	124	156	157	1	40.0	1.00	1.00
106	Guscio fond.	126	125	157	158	1	40.0	1.00	1.00
107	Guscio fond.	127	126	158	159	1	40.0	1.00	1.00
108	Guscio fond.	128	127	159	160	1	40.0	1.00	1.00
109	Guscio fond.	129	128	160	161	1	40.0	1.00	1.00
110	Guscio fond.	130	129	161	162	1	40.0	1.00	1.00
111	Guscio fond.	131	130	162	163	1	40.0	1.00	1.00
112	Guscio fond.	132	131	163	164	1	40.0	1.00	1.00
113	Guscio fond.	133	132	164	165	1	40.0	1.00	1.00
114	Guscio fond.	134	133	165	166	1	40.0	1.00	1.00
115	Guscio fond.	135	134	166	167	1	40.0	1.00	1.00
116	Guscio fond.	136	135	167	168	1	40.0	1.00	1.00
117	Guscio fond.	137	136	168	169	1	40.0	1.00	1.00
118	Guscio fond.	138	137	169	170	1	40.0	1.00	1.00
119	Guscio fond.	139	138	170	171	1	40.0	1.00	1.00
120	Guscio fond.	140	139	171	172	1	40.0	1.00	1.00
121	Guscio fond.	141	140	172	173	1	40.0	1.00	1.00
122	Guscio fond.	142	141	173	174	1	40.0	1.00	1.00
123	Guscio fond.	143	142	174	175	1	40.0	1.00	1.00
124	Guscio fond.	144	143	175	176	1	40.0	1.00	1.00
125	Guscio fond.	146	145	177	178	1	40.0	1.00	1.00
126	Guscio fond.	147	146	178	179	1	40.0	1.00	1.00
127	Guscio fond.	148	147	179	180	1	40.0	1.00	1.00
128	Guscio fond.	149	148	180	181	1	40.0	1.00	1.00
129	Guscio fond.	150	149	181	182	1	40.0	1.00	1.00
130	Guscio fond.	151	150	182	183	1	40.0	1.00	1.00
131	Guscio fond.	152	151	183	184	1	40.0	1.00	1.00
132	Guscio fond.	424	423	217	9	1	40.0	1.00	1.00
133	Guscio fond.	154	152	184	186	1	40.0	1.00	1.00
134	Guscio fond.	155	154	186	187	1	40.0	1.00	1.00
135	Guscio fond.	156	155	187	188	1	40.0	1.00	1.00
136	Guscio fond.	157	156	188	189	1	40.0	1.00	1.00
137	Guscio fond.	158	157	189	190	1	40.0	1.00	1.00
138	Guscio fond.	159	158	190	191	1	40.0	1.00	1.00
139	Guscio fond.	160	159	191	192	1	40.0	1.00	1.00
140	Guscio fond.	161	160	192	193	1	40.0	1.00	1.00
141	Guscio fond.	162	161	193	194	1	40.0	1.00	1.00
142	Guscio fond.	163	162	194	195	1	40.0	1.00	1.00
143	Guscio fond.	164	163	195	196	1	40.0	1.00	1.00
144	Guscio fond.	165	164	196	197	1	40.0	1.00	1.00
145	Guscio fond.	166	165	197	198	1	40.0	1.00	1.00
146	Guscio fond.	167	166	198	199	1	40.0	1.00	1.00
147	Guscio fond.	168	167	199	200	1	40.0	1.00	1.00
148	Guscio fond.	169	168	200	201	1	40.0	1.00	1.00
149	Guscio fond.	170	169	201	202	1	40.0	1.00	1.00
150	Guscio fond.	171	170	202	203	1	40.0	1.00	1.00
151	Guscio fond.	172	171	203	204	1	40.0	1.00	1.00
152	Guscio fond.	173	172	204	205	1	40.0	1.00	1.00
153	Guscio fond.	174	173	205	206	1	40.0	1.00	1.00
154	Guscio fond.	175	174	206	207	1	40.0	1.00	1.00
155	Guscio fond.	176	175	207	208	1	40.0	1.00	1.00
156	Guscio fond.	178	177	209	210	1	40.0	1.00	1.00
157	Guscio fond.	179	178	210	211	1	40.0	1.00	1.00
158	Guscio fond.	180	179	211	212	1	40.0	1.00	1.00
159	Guscio fond.	181	180	212	213	1	40.0	1.00	1.00
160	Guscio fond.	182	181	213	214	1	40.0	1.00	1.00
161	Guscio fond.	183	182	214	215	1	40.0	1.00	1.00
162	Guscio fond.	184	183	215	216	1	40.0	1.00	1.00
163	Guscio fond.	425	424	9	249	1	40.0	1.00	1.00
164	Guscio fond.	186	184	216	218	1	40.0	1.00	1.00
165	Guscio fond.	187	186	218	219	1	40.0	1.00	1.00

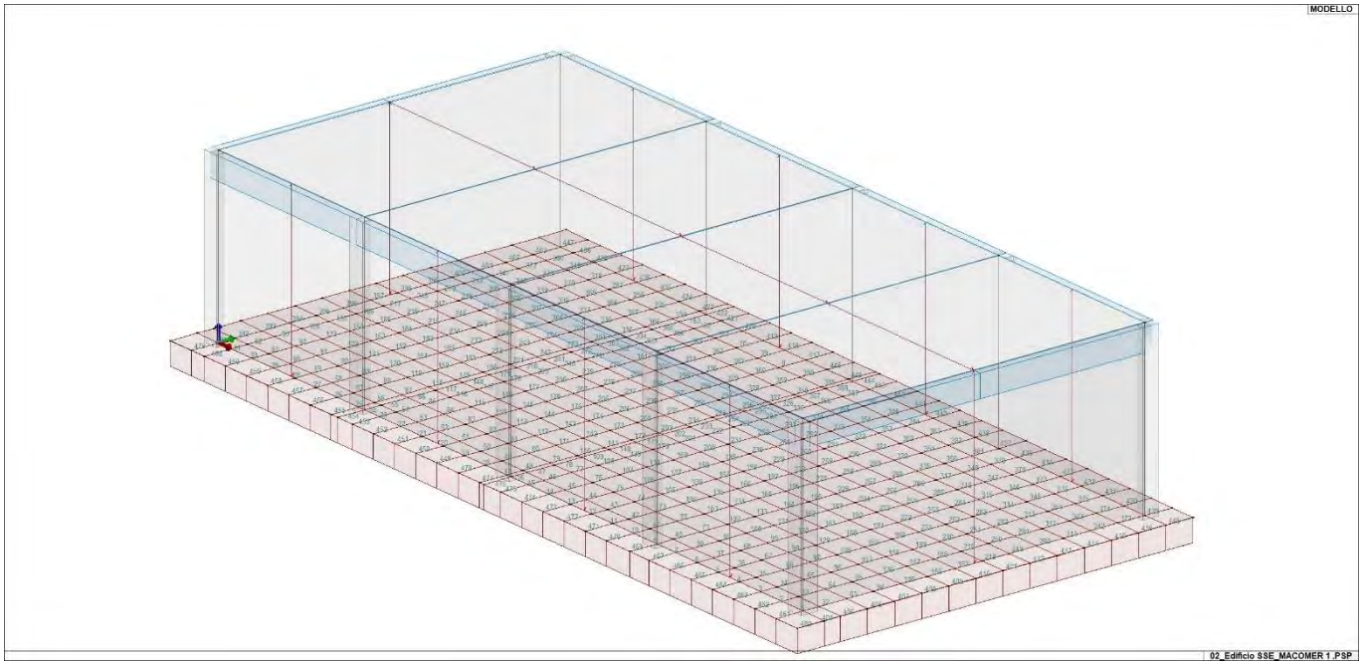
166 Guscio fond.	188	187	219	220	1	40.0	1.00	1.00
167 Guscio fond.	189	188	220	221	1	40.0	1.00	1.00
168 Guscio fond.	190	189	221	222	1	40.0	1.00	1.00
169 Guscio fond.	191	190	222	223	1	40.0	1.00	1.00
170 Guscio fond.	192	191	223	224	1	40.0	1.00	1.00
171 Guscio fond.	193	192	224	225	1	40.0	1.00	1.00
172 Guscio fond.	194	193	225	226	1	40.0	1.00	1.00
173 Guscio fond.	195	194	226	227	1	40.0	1.00	1.00
174 Guscio fond.	196	195	227	228	1	40.0	1.00	1.00
175 Guscio fond.	197	196	228	229	1	40.0	1.00	1.00
176 Guscio fond.	198	197	229	230	1	40.0	1.00	1.00
177 Guscio fond.	199	198	230	231	1	40.0	1.00	1.00
178 Guscio fond.	200	199	231	232	1	40.0	1.00	1.00
179 Guscio fond.	201	200	232	233	1	40.0	1.00	1.00
180 Guscio fond.	202	201	233	234	1	40.0	1.00	1.00
181 Guscio fond.	203	202	234	235	1	40.0	1.00	1.00
182 Guscio fond.	204	203	235	236	1	40.0	1.00	1.00
183 Guscio fond.	205	204	236	237	1	40.0	1.00	1.00
184 Guscio fond.	206	205	237	238	1	40.0	1.00	1.00
185 Guscio fond.	207	206	238	239	1	40.0	1.00	1.00
186 Guscio fond.	208	207	239	240	1	40.0	1.00	1.00
187 Guscio fond.	210	209	241	242	1	40.0	1.00	1.00
188 Guscio fond.	211	210	242	243	1	40.0	1.00	1.00
189 Guscio fond.	212	211	243	244	1	40.0	1.00	1.00
190 Guscio fond.	213	212	244	245	1	40.0	1.00	1.00
191 Guscio fond.	214	213	245	246	1	40.0	1.00	1.00
192 Guscio fond.	215	214	246	247	1	40.0	1.00	1.00
193 Guscio fond.	216	215	247	248	1	40.0	1.00	1.00
194 Guscio fond.	426	425	249	281	1	40.0	1.00	1.00
195 Guscio fond.	218	216	248	250	1	40.0	1.00	1.00
196 Guscio fond.	219	218	250	251	1	40.0	1.00	1.00
197 Guscio fond.	220	219	251	252	1	40.0	1.00	1.00
198 Guscio fond.	221	220	252	253	1	40.0	1.00	1.00
199 Guscio fond.	222	221	253	254	1	40.0	1.00	1.00
200 Guscio fond.	223	222	254	255	1	40.0	1.00	1.00
201 Guscio fond.	224	223	255	256	1	40.0	1.00	1.00
202 Guscio fond.	225	224	256	257	1	40.0	1.00	1.00
203 Guscio fond.	226	225	257	258	1	40.0	1.00	1.00
204 Guscio fond.	227	226	258	259	1	40.0	1.00	1.00
205 Guscio fond.	228	227	259	260	1	40.0	1.00	1.00
206 Guscio fond.	229	228	260	261	1	40.0	1.00	1.00
207 Guscio fond.	230	229	261	262	1	40.0	1.00	1.00
208 Guscio fond.	231	230	262	263	1	40.0	1.00	1.00
209 Guscio fond.	232	231	263	264	1	40.0	1.00	1.00
210 Guscio fond.	233	232	264	265	1	40.0	1.00	1.00
211 Guscio fond.	234	233	265	266	1	40.0	1.00	1.00
212 Guscio fond.	235	234	266	267	1	40.0	1.00	1.00
213 Guscio fond.	236	235	267	268	1	40.0	1.00	1.00
214 Guscio fond.	237	236	268	269	1	40.0	1.00	1.00
215 Guscio fond.	238	237	269	270	1	40.0	1.00	1.00
216 Guscio fond.	239	238	270	271	1	40.0	1.00	1.00
217 Guscio fond.	240	239	271	272	1	40.0	1.00	1.00
218 Guscio fond.	242	241	273	274	1	40.0	1.00	1.00
219 Guscio fond.	243	242	274	275	1	40.0	1.00	1.00
220 Guscio fond.	244	243	275	276	1	40.0	1.00	1.00
221 Guscio fond.	245	244	276	277	1	40.0	1.00	1.00
222 Guscio fond.	246	245	277	278	1	40.0	1.00	1.00
223 Guscio fond.	247	246	278	279	1	40.0	1.00	1.00
224 Guscio fond.	248	247	279	280	1	40.0	1.00	1.00
225 Guscio fond.	427	426	281	313	1	40.0	1.00	1.00
226 Guscio fond.	250	248	280	282	1	40.0	1.00	1.00
227 Guscio fond.	251	250	282	283	1	40.0	1.00	1.00
228 Guscio fond.	252	251	283	284	1	40.0	1.00	1.00
229 Guscio fond.	253	252	284	285	1	40.0	1.00	1.00
230 Guscio fond.	254	253	285	286	1	40.0	1.00	1.00
231 Guscio fond.	255	254	286	287	1	40.0	1.00	1.00
232 Guscio fond.	256	255	287	288	1	40.0	1.00	1.00
233 Guscio fond.	257	256	288	289	1	40.0	1.00	1.00
234 Guscio fond.	258	257	289	290	1	40.0	1.00	1.00
235 Guscio fond.	259	258	290	291	1	40.0	1.00	1.00
236 Guscio fond.	260	259	291	292	1	40.0	1.00	1.00
237 Guscio fond.	261	260	292	293	1	40.0	1.00	1.00
238 Guscio fond.	262	261	293	294	1	40.0	1.00	1.00
239 Guscio fond.	263	262	294	295	1	40.0	1.00	1.00
240 Guscio fond.	264	263	295	296	1	40.0	1.00	1.00
241 Guscio fond.	265	264	296	297	1	40.0	1.00	1.00

242	Guscio fond.	266	265	297	298	1	40.0	1.00	1.00
243	Guscio fond.	267	266	298	299	1	40.0	1.00	1.00
244	Guscio fond.	268	267	299	300	1	40.0	1.00	1.00
245	Guscio fond.	269	268	300	301	1	40.0	1.00	1.00
246	Guscio fond.	270	269	301	302	1	40.0	1.00	1.00
247	Guscio fond.	271	270	302	303	1	40.0	1.00	1.00
248	Guscio fond.	272	271	303	304	1	40.0	1.00	1.00
249	Guscio fond.	274	273	305	306	1	40.0	1.00	1.00
250	Guscio fond.	275	274	306	307	1	40.0	1.00	1.00
251	Guscio fond.	276	275	307	308	1	40.0	1.00	1.00
252	Guscio fond.	277	276	308	309	1	40.0	1.00	1.00
253	Guscio fond.	278	277	309	310	1	40.0	1.00	1.00
254	Guscio fond.	279	278	310	311	1	40.0	1.00	1.00
255	Guscio fond.	280	279	311	312	1	40.0	1.00	1.00
256	Guscio fond.	428	427	313	345	1	40.0	1.00	1.00
257	Guscio fond.	282	280	312	314	1	40.0	1.00	1.00
258	Guscio fond.	283	282	314	315	1	40.0	1.00	1.00
259	Guscio fond.	284	283	315	316	1	40.0	1.00	1.00
260	Guscio fond.	285	284	316	317	1	40.0	1.00	1.00
261	Guscio fond.	286	285	317	318	1	40.0	1.00	1.00
262	Guscio fond.	287	286	318	319	1	40.0	1.00	1.00
263	Guscio fond.	288	287	319	320	1	40.0	1.00	1.00
264	Guscio fond.	289	288	320	321	1	40.0	1.00	1.00
265	Guscio fond.	290	289	321	322	1	40.0	1.00	1.00
266	Guscio fond.	291	290	322	323	1	40.0	1.00	1.00
267	Guscio fond.	292	291	323	324	1	40.0	1.00	1.00
268	Guscio fond.	293	292	324	325	1	40.0	1.00	1.00
269	Guscio fond.	294	293	325	326	1	40.0	1.00	1.00
270	Guscio fond.	295	294	326	327	1	40.0	1.00	1.00
271	Guscio fond.	296	295	327	328	1	40.0	1.00	1.00
272	Guscio fond.	297	296	328	329	1	40.0	1.00	1.00
273	Guscio fond.	298	297	329	330	1	40.0	1.00	1.00
274	Guscio fond.	299	298	330	331	1	40.0	1.00	1.00
275	Guscio fond.	300	299	331	332	1	40.0	1.00	1.00
276	Guscio fond.	301	300	332	333	1	40.0	1.00	1.00
277	Guscio fond.	302	301	333	334	1	40.0	1.00	1.00
278	Guscio fond.	303	302	334	335	1	40.0	1.00	1.00
279	Guscio fond.	304	303	335	336	1	40.0	1.00	1.00
280	Guscio fond.	306	305	337	338	1	40.0	1.00	1.00
281	Guscio fond.	307	306	338	339	1	40.0	1.00	1.00
282	Guscio fond.	308	307	339	340	1	40.0	1.00	1.00
283	Guscio fond.	309	308	340	341	1	40.0	1.00	1.00
284	Guscio fond.	310	309	341	342	1	40.0	1.00	1.00
285	Guscio fond.	311	310	342	343	1	40.0	1.00	1.00
286	Guscio fond.	312	311	343	344	1	40.0	1.00	1.00
287	Guscio fond.	429	428	345	377	1	40.0	1.00	1.00
288	Guscio fond.	314	312	344	346	1	40.0	1.00	1.00
289	Guscio fond.	315	314	346	347	1	40.0	1.00	1.00
290	Guscio fond.	316	315	347	348	1	40.0	1.00	1.00
291	Guscio fond.	317	316	348	349	1	40.0	1.00	1.00
292	Guscio fond.	318	317	349	350	1	40.0	1.00	1.00
293	Guscio fond.	319	318	350	351	1	40.0	1.00	1.00
294	Guscio fond.	320	319	351	352	1	40.0	1.00	1.00
295	Guscio fond.	321	320	352	353	1	40.0	1.00	1.00
296	Guscio fond.	322	321	353	354	1	40.0	1.00	1.00
297	Guscio fond.	323	322	354	355	1	40.0	1.00	1.00
298	Guscio fond.	324	323	355	356	1	40.0	1.00	1.00
299	Guscio fond.	325	324	356	357	1	40.0	1.00	1.00
300	Guscio fond.	326	325	357	358	1	40.0	1.00	1.00
301	Guscio fond.	327	326	358	359	1	40.0	1.00	1.00
302	Guscio fond.	328	327	359	360	1	40.0	1.00	1.00
303	Guscio fond.	329	328	360	361	1	40.0	1.00	1.00
304	Guscio fond.	330	329	361	362	1	40.0	1.00	1.00
305	Guscio fond.	331	330	362	363	1	40.0	1.00	1.00
306	Guscio fond.	332	331	363	364	1	40.0	1.00	1.00
307	Guscio fond.	333	332	364	365	1	40.0	1.00	1.00
308	Guscio fond.	334	333	365	366	1	40.0	1.00	1.00
309	Guscio fond.	335	334	366	367	1	40.0	1.00	1.00
310	Guscio fond.	336	335	367	368	1	40.0	1.00	1.00
311	Guscio fond.	338	337	369	370	1	40.0	1.00	1.00
312	Guscio fond.	339	338	370	371	1	40.0	1.00	1.00
313	Guscio fond.	340	339	371	372	1	40.0	1.00	1.00
314	Guscio fond.	341	340	372	373	1	40.0	1.00	1.00
315	Guscio fond.	342	341	373	374	1	40.0	1.00	1.00
316	Guscio fond.	343	342	374	375	1	40.0	1.00	1.00
317	Guscio fond.	344	343	375	376	1	40.0	1.00	1.00

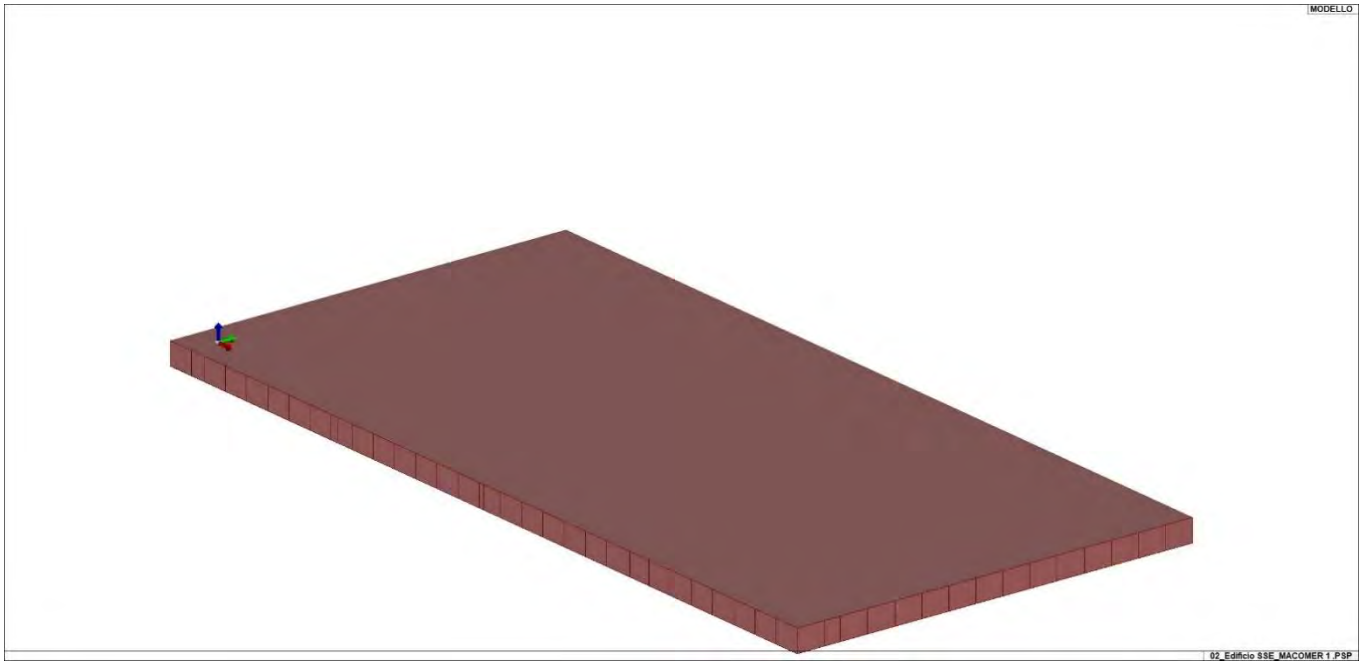
318	Guscio fond.	430	429	377	409	1	40.0	1.00	1.00
319	Guscio fond.	346	344	376	378	1	40.0	1.00	1.00
320	Guscio fond.	347	346	378	379	1	40.0	1.00	1.00
321	Guscio fond.	348	347	379	380	1	40.0	1.00	1.00
322	Guscio fond.	349	348	380	381	1	40.0	1.00	1.00
323	Guscio fond.	350	349	381	382	1	40.0	1.00	1.00
324	Guscio fond.	351	350	382	383	1	40.0	1.00	1.00
325	Guscio fond.	352	351	383	384	1	40.0	1.00	1.00
326	Guscio fond.	353	352	384	385	1	40.0	1.00	1.00
327	Guscio fond.	354	353	385	386	1	40.0	1.00	1.00
328	Guscio fond.	355	354	386	387	1	40.0	1.00	1.00
329	Guscio fond.	356	355	387	388	1	40.0	1.00	1.00
330	Guscio fond.	357	356	388	389	1	40.0	1.00	1.00
331	Guscio fond.	358	357	389	390	1	40.0	1.00	1.00
332	Guscio fond.	359	358	390	391	1	40.0	1.00	1.00
333	Guscio fond.	360	359	391	392	1	40.0	1.00	1.00
334	Guscio fond.	361	360	392	393	1	40.0	1.00	1.00
335	Guscio fond.	362	361	393	394	1	40.0	1.00	1.00
336	Guscio fond.	363	362	394	395	1	40.0	1.00	1.00
337	Guscio fond.	364	363	395	396	1	40.0	1.00	1.00
338	Guscio fond.	365	364	396	397	1	40.0	1.00	1.00
339	Guscio fond.	366	365	397	398	1	40.0	1.00	1.00
340	Guscio fond.	367	366	398	399	1	40.0	1.00	1.00
341	Guscio fond.	368	367	399	400	1	40.0	1.00	1.00
342	Guscio fond.	370	369	401	402	1	40.0	1.00	1.00
343	Guscio fond.	371	370	402	403	1	40.0	1.00	1.00
344	Guscio fond.	372	371	403	404	1	40.0	1.00	1.00
345	Guscio fond.	373	372	404	405	1	40.0	1.00	1.00
346	Guscio fond.	374	373	405	406	1	40.0	1.00	1.00
347	Guscio fond.	375	374	406	407	1	40.0	1.00	1.00
348	Guscio fond.	376	375	407	408	1	40.0	1.00	1.00
349	Guscio fond.	431	430	409	439	1	40.0	1.00	1.00
350	Guscio fond.	378	376	408	410	1	40.0	1.00	1.00
351	Guscio fond.	379	378	410	411	1	40.0	1.00	1.00
352	Guscio fond.	380	379	411	412	1	40.0	1.00	1.00
353	Guscio fond.	381	380	412	413	1	40.0	1.00	1.00
354	Guscio fond.	382	381	413	414	1	40.0	1.00	1.00
355	Guscio fond.	383	382	414	415	1	40.0	1.00	1.00
356	Guscio fond.	384	383	415	416	1	40.0	1.00	1.00
357	Guscio fond.	385	384	416	417	1	40.0	1.00	1.00
358	Guscio fond.	386	385	417	418	1	40.0	1.00	1.00
359	Guscio fond.	387	386	418	419	1	40.0	1.00	1.00
360	Guscio fond.	388	387	419	420	1	40.0	1.00	1.00
361	Guscio fond.	389	388	420	421	1	40.0	1.00	1.00
362	Guscio fond.	390	389	421	422	1	40.0	1.00	1.00
363	Guscio fond.	391	390	422	423	1	40.0	1.00	1.00
364	Guscio fond.	392	391	423	424	1	40.0	1.00	1.00
365	Guscio fond.	393	392	424	425	1	40.0	1.00	1.00
366	Guscio fond.	394	393	425	426	1	40.0	1.00	1.00
367	Guscio fond.	395	394	426	427	1	40.0	1.00	1.00
368	Guscio fond.	396	395	427	428	1	40.0	1.00	1.00
369	Guscio fond.	397	396	428	429	1	40.0	1.00	1.00
370	Guscio fond.	398	397	429	430	1	40.0	1.00	1.00
371	Guscio fond.	399	398	430	431	1	40.0	1.00	1.00
372	Guscio fond.	400	399	431	432	1	40.0	1.00	1.00
373	Guscio fond.	402	401	21	433	1	40.0	1.00	1.00
374	Guscio fond.	403	402	433	434	1	40.0	1.00	1.00
375	Guscio fond.	404	403	434	435	1	40.0	1.00	1.00
376	Guscio fond.	405	404	435	436	1	40.0	1.00	1.00
377	Guscio fond.	406	405	436	437	1	40.0	1.00	1.00
378	Guscio fond.	407	406	437	438	1	40.0	1.00	1.00
379	Guscio fond.	408	407	438	17	1	40.0	1.00	1.00
380	Guscio fond.	432	431	439	3	1	40.0	1.00	1.00
381	Guscio fond.	410	408	17	440	1	40.0	1.00	1.00
382	Guscio fond.	411	410	440	441	1	40.0	1.00	1.00
383	Guscio fond.	412	411	441	442	1	40.0	1.00	1.00
384	Guscio fond.	413	412	442	443	1	40.0	1.00	1.00
385	Guscio fond.	414	413	443	444	1	40.0	1.00	1.00
386	Guscio fond.	415	414	444	445	1	40.0	1.00	1.00
387	Guscio fond.	416	415	445	13	1	40.0	1.00	1.00
388	Guscio fond.	417	416	13	36	1	40.0	1.00	1.00
389	Guscio fond.	418	417	36	37	1	40.0	1.00	1.00
390	Guscio fond.	419	418	37	89	1	40.0	1.00	1.00
391	Guscio fond.	447	1	80	449	1	40.0	1.00	1.00
392	Guscio fond.	449	80	112	450	1	40.0	1.00	1.00
393	Guscio fond.	450	112	144	451	1	40.0	1.00	1.00

394	Guscio fond.	451	144	176	452	1	40.0	1.00	1.00
395	Guscio fond.	452	176	208	453	1	40.0	1.00	1.00
396	Guscio fond.	453	208	240	454	1	40.0	1.00	1.00
397	Guscio fond.	454	240	272	455	1	40.0	1.00	1.00
398	Guscio fond.	455	272	304	456	1	40.0	1.00	1.00
399	Guscio fond.	456	304	336	457	1	40.0	1.00	1.00
400	Guscio fond.	457	336	368	458	1	40.0	1.00	1.00
401	Guscio fond.	458	368	400	459	1	40.0	1.00	1.00
402	Guscio fond.	459	400	432	460	1	40.0	1.00	1.00
403	Guscio fond.	460	432	3	448	1	40.0	1.00	1.00
404	Guscio fond.	19	461	463	22	1	40.0	1.00	1.00
405	Guscio fond.	22	463	464	81	1	40.0	1.00	1.00
406	Guscio fond.	81	464	465	113	1	40.0	1.00	1.00
407	Guscio fond.	113	465	466	145	1	40.0	1.00	1.00
408	Guscio fond.	145	466	467	177	1	40.0	1.00	1.00
409	Guscio fond.	177	467	468	209	1	40.0	1.00	1.00
410	Guscio fond.	209	468	469	241	1	40.0	1.00	1.00
411	Guscio fond.	241	469	470	273	1	40.0	1.00	1.00
412	Guscio fond.	273	470	471	305	1	40.0	1.00	1.00
413	Guscio fond.	305	471	472	337	1	40.0	1.00	1.00
414	Guscio fond.	337	472	473	369	1	40.0	1.00	1.00
415	Guscio fond.	369	473	474	401	1	40.0	1.00	1.00
416	Guscio fond.	401	474	462	21	1	40.0	1.00	1.00
417	Guscio fond.	121	89	482	483	1	40.0	1.00	1.00
418	Guscio fond.	153	121	483	484	1	40.0	1.00	1.00
419	Guscio fond.	185	153	484	485	1	40.0	1.00	1.00
420	Guscio fond.	217	185	485	486	1	40.0	1.00	1.00
421	Guscio fond.	9	217	486	476	1	40.0	1.00	1.00
422	Guscio fond.	249	9	476	487	1	40.0	1.00	1.00
423	Guscio fond.	281	249	487	488	1	40.0	1.00	1.00
424	Guscio fond.	313	281	488	489	1	40.0	1.00	1.00
425	Guscio fond.	345	313	489	490	1	40.0	1.00	1.00
426	Guscio fond.	377	345	490	491	1	40.0	1.00	1.00
427	Guscio fond.	409	377	491	492	1	40.0	1.00	1.00
428	Guscio fond.	439	409	492	499	1	40.0	1.00	1.00
429	Guscio fond.	433	21	479	493	1	40.0	1.00	1.00
430	Guscio fond.	434	433	493	494	1	40.0	1.00	1.00
431	Guscio fond.	435	434	494	495	1	40.0	1.00	1.00
432	Guscio fond.	436	435	495	496	1	40.0	1.00	1.00
433	Guscio fond.	437	436	496	497	1	40.0	1.00	1.00
434	Guscio fond.	438	437	497	498	1	40.0	1.00	1.00
435	Guscio fond.	17	438	498	478	1	40.0	1.00	1.00
436	Guscio fond.	3	439	499	475	1	40.0	1.00	1.00
437	Guscio fond.	440	17	478	500	1	40.0	1.00	1.00
438	Guscio fond.	441	440	500	501	1	40.0	1.00	1.00
439	Guscio fond.	442	441	501	502	1	40.0	1.00	1.00
440	Guscio fond.	443	442	502	503	1	40.0	1.00	1.00
441	Guscio fond.	444	443	503	504	1	40.0	1.00	1.00
442	Guscio fond.	445	444	504	505	1	40.0	1.00	1.00
443	Guscio fond.	13	445	505	477	1	40.0	1.00	1.00
444	Guscio fond.	36	13	477	480	1	40.0	1.00	1.00
445	Guscio fond.	37	36	480	481	1	40.0	1.00	1.00
446	Guscio fond.	89	37	481	482	1	40.0	1.00	1.00
447	Guscio fond.	448	3	475	506	1	40.0	1.00	1.00
448	Guscio fond.	21	462	507	479	1	40.0	1.00	1.00
449	Guscio fond.	508	509	56	58	1	40.0	1.00	1.00
450	Guscio fond.	510	508	58	60	1	40.0	1.00	1.00
451	Guscio fond.	511	510	60	62	1	40.0	1.00	1.00
452	Guscio fond.	512	511	62	64	1	40.0	1.00	1.00
453	Guscio fond.	513	512	64	6	1	40.0	1.00	1.00
454	Guscio fond.	514	513	6	67	1	40.0	1.00	1.00
455	Guscio fond.	515	514	67	69	1	40.0	1.00	1.00
456	Guscio fond.	516	515	69	71	1	40.0	1.00	1.00
457	Guscio fond.	517	516	71	73	1	40.0	1.00	1.00
458	Guscio fond.	518	517	73	75	1	40.0	1.00	1.00
459	Guscio fond.	519	518	75	77	1	40.0	1.00	1.00
460	Guscio fond.	520	519	77	79	1	40.0	1.00	1.00
461	Guscio fond.	521	522	19	24	1	40.0	1.00	1.00
462	Guscio fond.	523	521	24	26	1	40.0	1.00	1.00
463	Guscio fond.	524	523	26	28	1	40.0	1.00	1.00
464	Guscio fond.	525	524	28	30	1	40.0	1.00	1.00
465	Guscio fond.	526	525	30	32	1	40.0	1.00	1.00
466	Guscio fond.	527	526	32	34	1	40.0	1.00	1.00
467	Guscio fond.	528	527	34	15	1	40.0	1.00	1.00
468	Guscio fond.	529	520	79	1	1	40.0	1.00	1.00
469	Guscio fond.	530	528	15	39	1	40.0	1.00	1.00

470	Guscio fond.	531	530	39	41	1	40.0	1.00	1.00
471	Guscio fond.	532	531	41	43	1	40.0	1.00	1.00
472	Guscio fond.	533	532	43	45	1	40.0	1.00	1.00
473	Guscio fond.	534	533	45	47	1	40.0	1.00	1.00
474	Guscio fond.	535	534	47	49	1	40.0	1.00	1.00
475	Guscio fond.	536	535	49	11	1	40.0	1.00	1.00
476	Guscio fond.	537	536	11	52	1	40.0	1.00	1.00
477	Guscio fond.	538	537	52	54	1	40.0	1.00	1.00
478	Guscio fond.	509	538	54	56	1	40.0	1.00	1.00
479	Guscio fond.	539	529	1	447	1	40.0	1.00	1.00
480	Guscio fond.	522	540	461	19	1	40.0	1.00	1.00



16_MOD_NUMERAZIONE_D3



16_MOD_SPESSORI_D3

30. MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

30.1. LEGENDA TABELLA DATI SOLAI-PANNELLI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio o pannello.

Ogni elemento solaio-pannello è individuato da una poligonale di nodi 1,2, ..., N.

L'elemento solaio è utilizzato in primo luogo per la modellazione dei carichi agenti sugli elementi strutturali. In secondo luogo può essere utilizzato per la corretta ripartizione delle forze orizzontali agenti nel proprio piano. L'elemento balcone è derivato dall'elemento solaio.

I carichi agenti sugli elementi solaio, raccolti in un archivio, sono direttamente assegnati agli elementi utilizzando le informazioni raccolte nell' archivio (es. i coefficienti combinatori). La tabella seguente riporta i dati utilizzati per la definizione dei carichi e delle masse.

L'elemento pannello è utilizzato solo per l'applicazione dei carichi, quali pesi delle tamponature o spinte dovute al vento o terre. In questo caso i carichi sono applicati in analogia agli altri elementi strutturali (si veda il cap. SCHEMATIZZAZIONE DEI CASI DI CARICO).

Id.Arch.	Identificativo dell' archivio
Tipo	Tipo di carico ***Variab.*** Carico variabile generico ***Var. rid.*** Carico variabile generico con riduzione in funzione dell' area (c.5.5. …) ***Neve*** Carico di neve
G1k	carico permanente (comprensivo del peso proprio)
G2k	carico permanente non strutturale e non compiutamente definito
Qk	carico variabile
Fatt. A	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
S sis.	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
Psi 0	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: ***per valore raro***
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: ***per valore frequente***
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: ***per valore quasi permanente***
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: ***per la definizione delle masse sismiche***
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione. In particolare per ogni elemento viene indicato in tabella:

Elem	numero dell'elemento
Tipo	codice di comportamento ***S*** elemento utilizzato solo per scarico ***C*** elemento utilizzato per scarico e per modellazione piano rigido ***P*** elemento utilizzato come pannello ***M*** scarico monodirezionale ***B*** scarico bidirezionale
Id.Arch.	Identificativo dell' archivio
Mat	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali
Gk	carico permanente solaio (comprensivo del peso proprio)
Qk	carico variabile solaio
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)

Nel caso in cui si sia proceduto alla progettazione dei solai con le tensioni ammissibili vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale); nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite vengono riportati il rapporto x/d e le verifiche per sollecitazioni proporzionali nonché le verifiche in esercizio.

In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	numero identificativo dell'elemento
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m);
Pos.	Ascissa del punto di verifica
F ist, F infi	Frecce instantanee e a tempo infinito
Momento	Momento flettente
Taglio	Sollecitazione di taglio
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup.	Area di armatura longitudinale posta all'estradosso della trave

AfV	Area dell'armatura atta ad assorbire le azioni di taglio
Beff	Base della sezione di cls per l'assorbimento del taglio
	simboli utilizzati con il metodo delle tensioni ammissibili:
sc max	Massima tensione di compressione del calcestruzzo
sf max	Massima tensione nell'acciaio
tau max	Massima tensione tangenziale nel cls
	simboli utilizzati con il metodo degli stati limite:
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
verif.	rapporto Sd/Su con sollecitazioni ultime proporzionali: valore minore o uguale a 1 per verifica positiva
Verif.V	rapporto Sd/Su con sollecitazioni taglianti proporzionali valore minore o uguale a 1 per verifica positiva
rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
rFfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni frequenti [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni frequenti [normalizzato a 1]
rFyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni quasi permanenti [normalizzato a 1]
wR	apertura caratteristica delle fessure in combinazioni rare [mm]
wF	apertura caratteristica delle fessure in combinazioni frequenti [mm]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]

Nel caso in cui si sia proceduto alla verifica delle tamponature secondo il D.M. 17.01.2018 - §7.2.3 viene riportata una tabella riassuntiva delle verifiche degli elementi pannello. La verifica confronta i momenti sollecitanti indotti dal sisma con i momenti resistenti, secondo tre ipotesi, due basate sulla resistenza a pressoflessione della tamponatura ed una basata sul cinematismo a seguito della formazione di tre cerniere plastiche sulla tamponatura (rif. Ufficio di Vigilanza sulle Costruzioni, Provincia di Terni).

Qualora la tamponatura sia di tipo antiespulsione (nelle due possibili varianti ordinaria o armata) viene condotta una

verifica con meccanismo ad arco con degrado di resistenza. La verifica confronta le pressioni sollecitanti indotte dal sisma con le pressioni resistenti che la tamponatura sviluppa attraverso il meccanismo ad arco. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura.

Per quest'ultima tamponatura sono disponibili, in funzione del materiale impiegato (materiale [52] o materiale [53]):

- **Tamponatura Antiespulsione ordinaria Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova.

  Utilizzabile per il materiale [52].

- **Tamponatura Antiespulsione armata Poroton® Cis Edil** sp.30 cm; con metodo di verifica per meccanismo ad arco con degrado di resistenza, sviluppato attraverso i risultati di un progetto di ricerca sperimentale condotto dall'Università degli Studi di Padova.

  Utilizzabile per il materiale [53].

La verifica è stata calibrata sulla base di prove sperimentali sul sistema di Tamponatura Antiespulsione anche in presenza di aperture.

(rif. Rapporti di Prova redatti dal Dipartimento ICEA - Università degli Studi di Padova di test sperimentali condotti sul sistema Tamponatura Antiespulsione di Cis Edil)

In particolare i simboli utilizzati in tabella assumono il seguente significato:

Elem.	Numero identificativo dell'elemento
Stato	Codice di verifica
Ver. c.c.	Verifica nell'ipotesi di trave appoggiata con carico concentrato in mezzeria
Ver. c.d.	Verifica nell'ipotesi di trave appoggiata con carico distribuito
Ver. c.cin.	Verifica nell'ipotesi di cinematismo con formazione di cerniere plastiche in appoggio e mezzeria
Ver. CIS	Rapporto pa/pr (valore minore o uguale a 1 per verifica positiva)
Z	Quota del baricentro dell'elemento
T1	Periodo proprio dell'edificio nella direzione di interesse (ortogonale al pannello)
Ta	Periodo proprio della parete
Sa	Accelerazione massima, adimensionalizzata allo SLV
pa	Pressione sulla parete causata dall'azione sismica
pr	Pressione resistente del meccanismo ad arco
Drift	Spostamento relativo interpiano allo SLV valutato secondo il D.M. 14.01.2018 - § 7.3.3.3
Beta a	Coef. riduttivo per tener conto del danneggiamento del piano dipendente dallo spostamento, ottenuto sperimentalmente

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

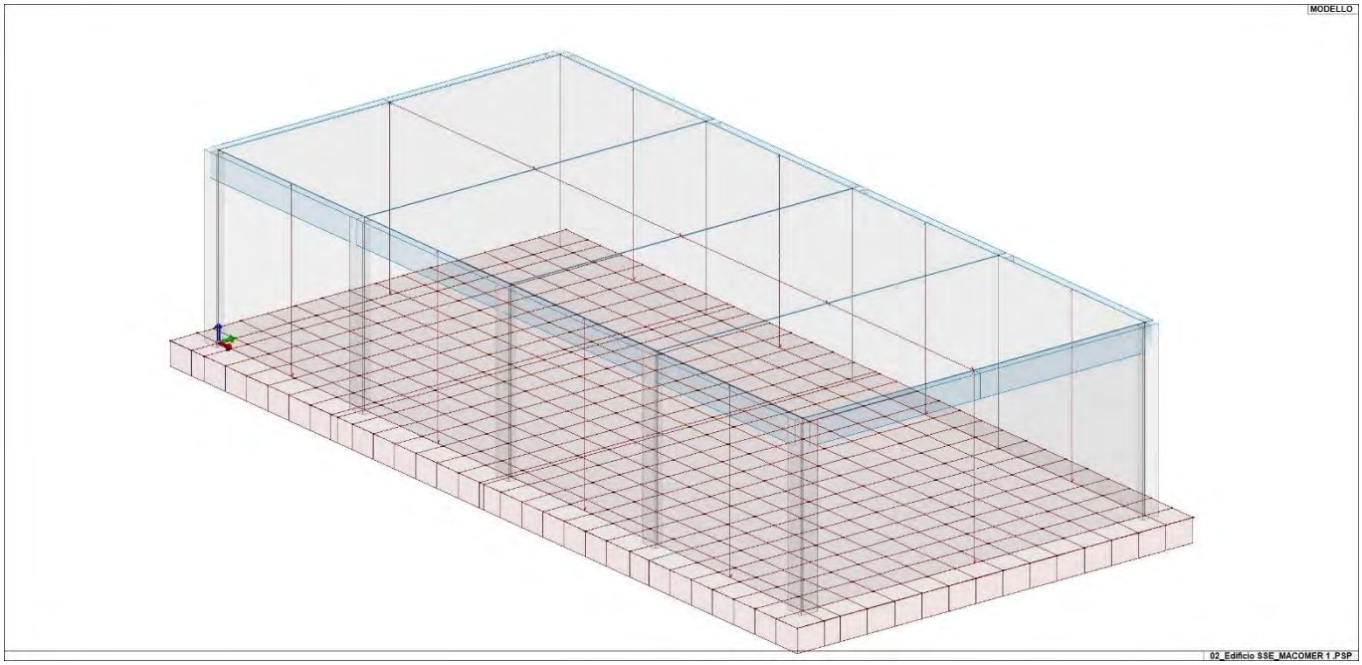
Test N°	Titolo
14	ANALISI DEI CARICHI PER UN SOLAIO DI COPERTURA
15	EFFETTI DELLO SPESSORE SULLA RIGIDEZZA DEI SOLAI
16	SOLAIO: CONFRONTO FRA RIGIDO E DEFORMABILE
17	SOLAIO: MISTO LEGNO-CALCESTRUZZO
28	FRECCIA DI SOLAI IN C.A.
119	PROGETTO E VERIFICA DI SOLAI IN MATERIALE XLAM

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		daN/cm2	daN/cm2	daN/cm2							
1	Neve	2.87e-02	3.60e-04	9.70e-03		1.00	0.50	0.20	0.0	0.0	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/cm2	daN/cm2	daN/cm2					
1	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	8	5	4	2	
2	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	12	10	5	8	
3	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	16	14	10	12	
4	SM	1	m=5	1.0	0.0	2.87e-02	3.60e-04	9.70e-03	20	18	14	16	
5	PM		m=25	1.0	90.0				9	3	4	5	
6	PM		m=25	1.0	90.0				13	9	5	10	
7	PM		m=25	1.0	90.0				12	11	6	8	
8	PM		m=25	1.0	90.0				8	6	1	2	
9	PM		m=25	1.0	90.0				17	13	10	14	
10	PM		m=25	1.0	90.0				16	15	11	12	
11	PM		m=25	1.0	90.0				1	3	4	2	
12	PM		m=25	1.0	90.0				21	17	14	18	
13	PM		m=25	1.0	90.0				20	19	15	16	
14	PM		m=25	1.0	90.0				19	21	18	20	

Elem.	Stato	Ver. c.c.	Ver. c.d.	Ver. cin.	Ver. CIS	Z	T1	Ta	Sa	pa	pr	Drift	Beta a
						cm	sec	sec	g	daN/cm2	daN/cm2	%	
5	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.12	0.0
6	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.12	0.0
7	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.12	0.0
8	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.12	0.0
9	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.12	0.0
10	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.12	0.0
11	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.13	0.0
12	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.12	0.0
13	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.12	0.0
14	NV L	5.44	2.72	3.20	0.0	150.0	0.19	0.744	0.073.2346e-05		0.0	0.13	0.0

Elem.	Ver. c.c.	Ver. c.d.	Ver. cin.	Ver. CIS	Drift
	5.44	2.72	3.20	0.0	0.12
	5.44	2.72	3.20	0.0	0.13



17_MOD_NUMERAZIONE_SOLAI

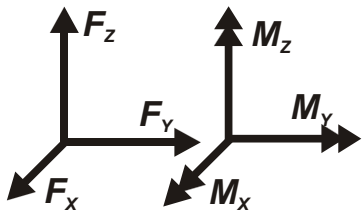
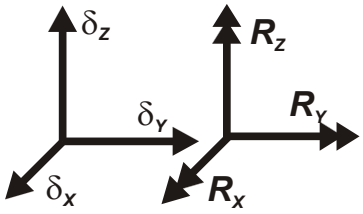
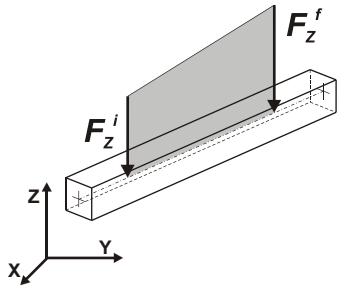
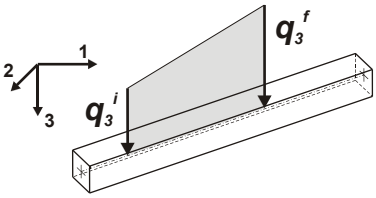
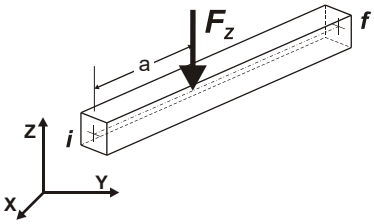
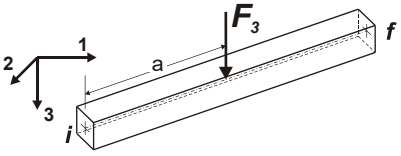
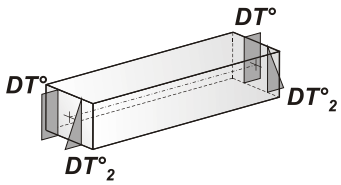
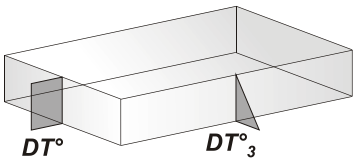
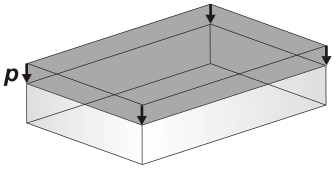
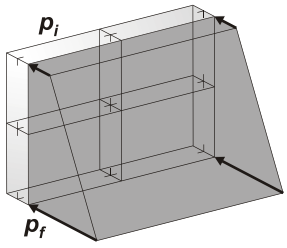
31. MODELLAZIONE DELLE AZIONI

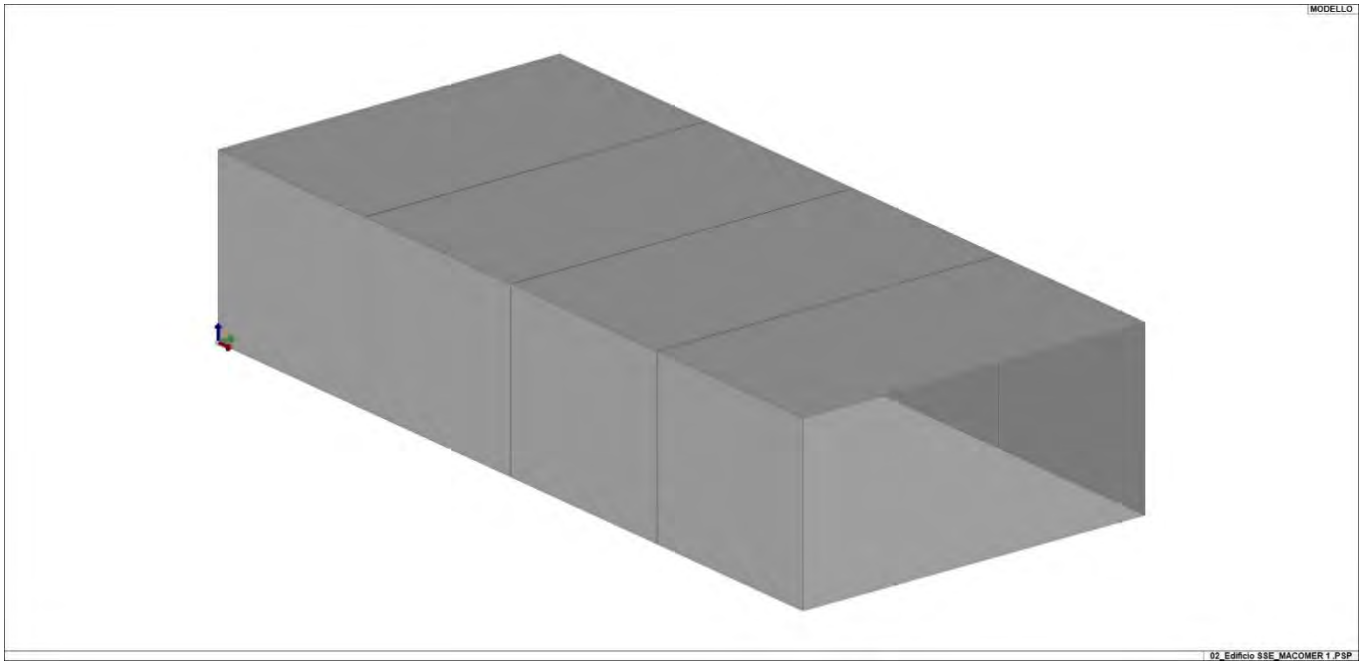
31.1. LEGENDA TABELLA DATI AZIONI

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

1	**carico concentrato nodale** 6 dati (forza Fx, Fy, Fz, momento Mx, My, Mz)
2	**spostamento nodale impresso** 6 dati (spostamento Tx,Ty,Tz, rotazione Rx,Ry,Rz)
3	**carico distribuito globale su elemento tipo trave** 7 dati (fx,fy,fz,mx,my,mz,ascissa di inizio carico) 7 dati (fx,fy,fz,mx,my,mz,ascissa di fine carico)
4	**carico distribuito locale su elemento tipo trave** 7 dati (f1,f2,f3,m1,m2,m3,ascissa di inizio carico) 7 dati (f1,f2,f3,m1,m2,m3,ascissa di fine carico)
5	**carico concentrato globale su elemento tipo trave** 7 dati (Fx,Fy,Fz,Mx,My,Mz,ascissa di carico)
6	**carico concentrato locale su elemento tipo trave** 7 dati (F1, F2, F3, M1, M2, M3, ascissa di carico)
7	**variazione termica applicata ad elemento tipo trave** 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	**carico di pressione uniforme su elemento tipo piastra** 1 dato (pressione)
9	**carico di pressione variabile su elemento tipo piastra** 4 dati (pressione, quota, pressione, quota)
10	**variazione termica applicata ad elemento tipo piastra** 2 dati (variazioni termiche: media e differenza nello spessore)
11	**carico variabile generale su elementi tipo trave e piastra**

	1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
12	**gruppo di carichi con impronta su piastra** 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell' impronta, interasse tra i carichi

	Carico concentrato nodale		Spostamento impresso
	Carico distribuito globale		Carico distribuito locale
	Carico concentrato globale		Carico concentrato locale
	Carico termico 2D		Carico termico 3D
	Carico pressione uniforme		Carico pressione variabile



21_CAR_CARICHI_SOLAI

32. SCHEMATIZZAZIONE DEI CASI DI CARICO

32.1. LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.

Sono previsti i seguenti 11 tipi di casi di carico:

	Sigla	***Tipo***	***Descrizione***
1	**Ggk**	A	caso di carico comprensivo del peso proprio struttura
2	**Gk**	NA	caso di carico con azioni permanenti
3	**Qk**	NA	caso di carico con azioni variabili
4	**Gsk**	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	**Qsk**	A	caso di carico comprensivo dei carichi variabili sui solai
6	**Qnk**	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	**Qtk**	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	**Qvk**	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	**Esk**	SA	caso di carico sismico con analisi statica equivalente
10	**Edk**	SA	caso di carico sismico con analisi dinamica
11	**Etk**	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	**Pk**	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

Sono di tipo automatico A (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di tipo semi-automatico SA (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:

7-Qtk, in quanto richiede solo il valore della variazione termica;

9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo non automatico NA ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

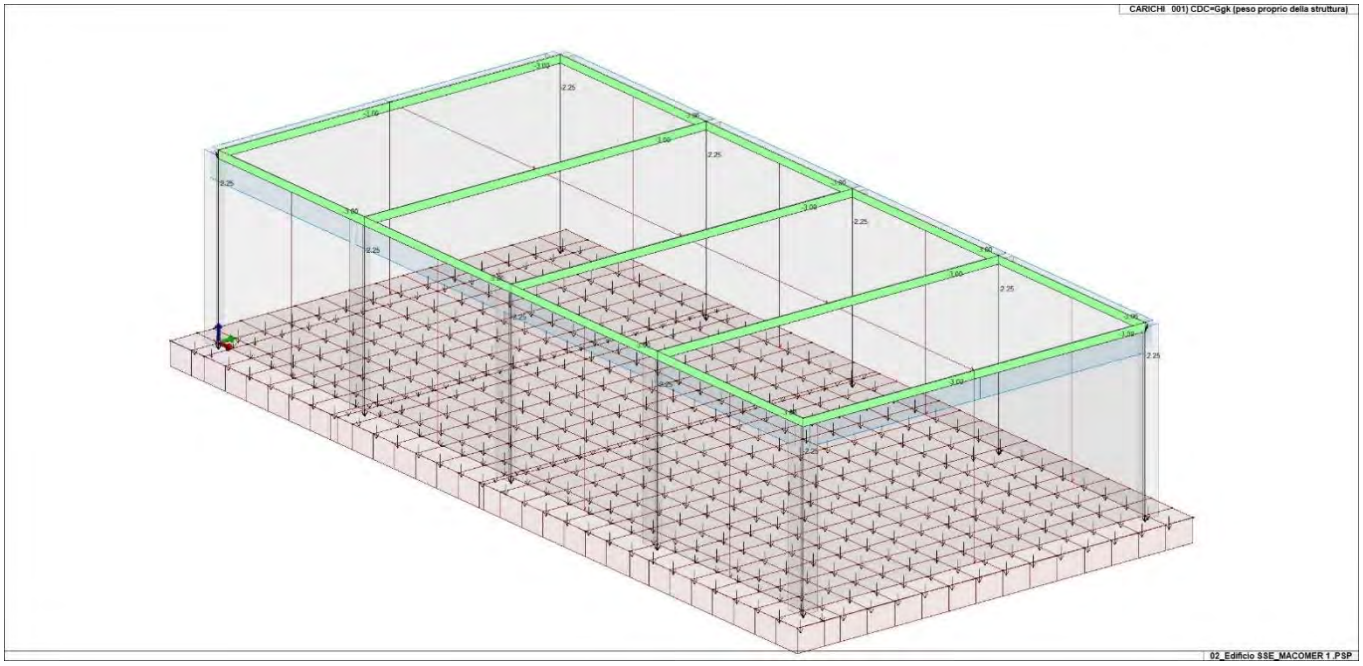
Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

Numero Tipo e *Sigla identificativa*, *Valore di riferimento* del caso di carico (se previsto).

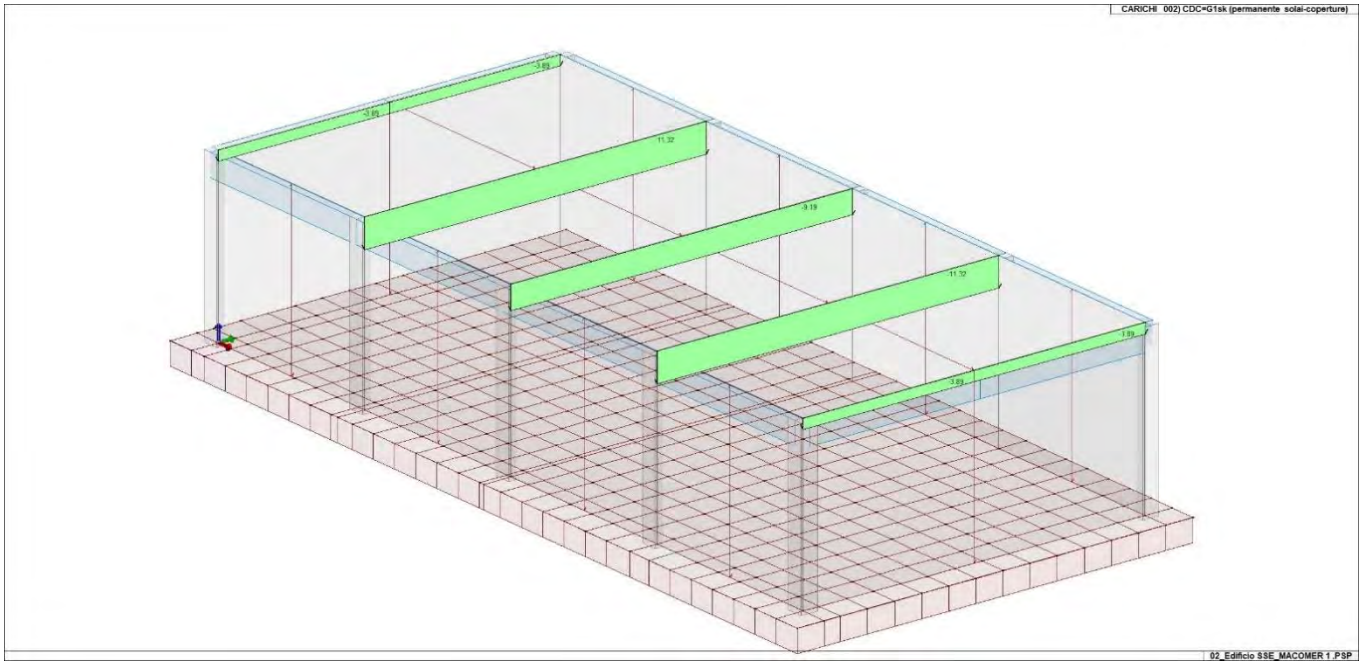
In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

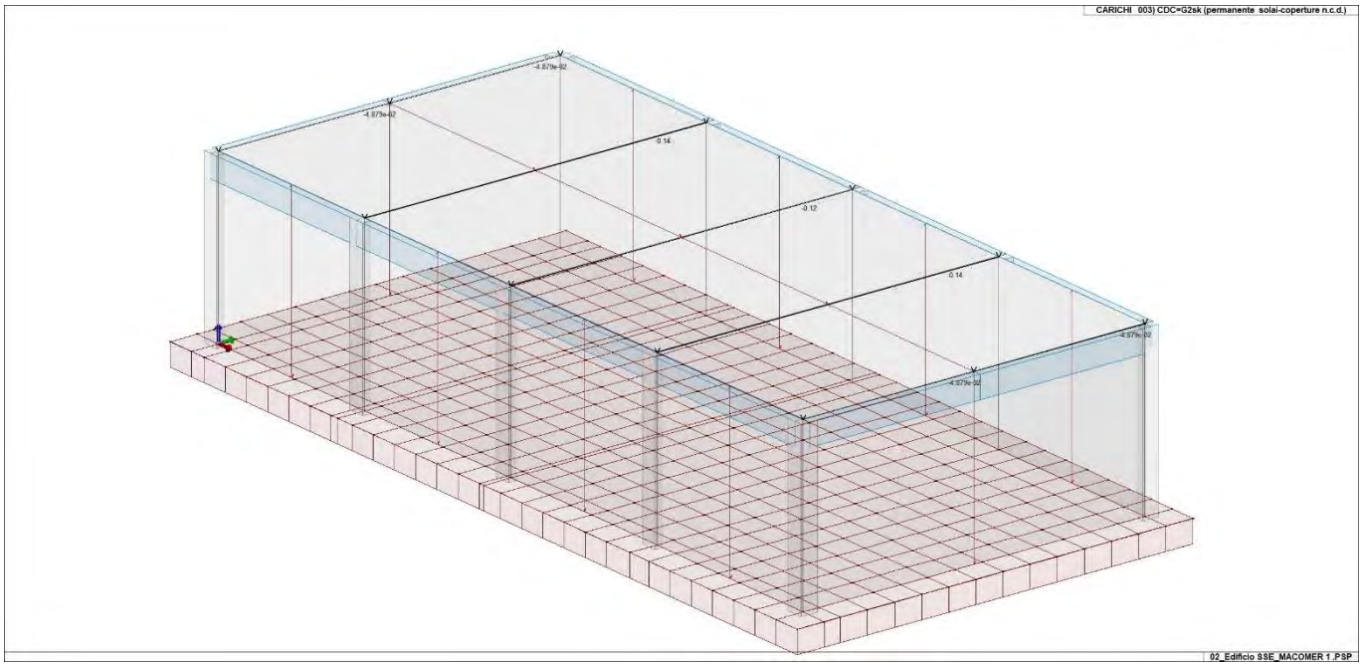
CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Gsk	CDC=G2pk (permanente pannelli n.c.d.)	
5	Qnk	CDC=Qnk (carico da neve)	
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=G2pk (permanente pannelli n.c.d.)
			partecipazione:1.00 per 5 CDC=Qnk (carico da neve)
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico



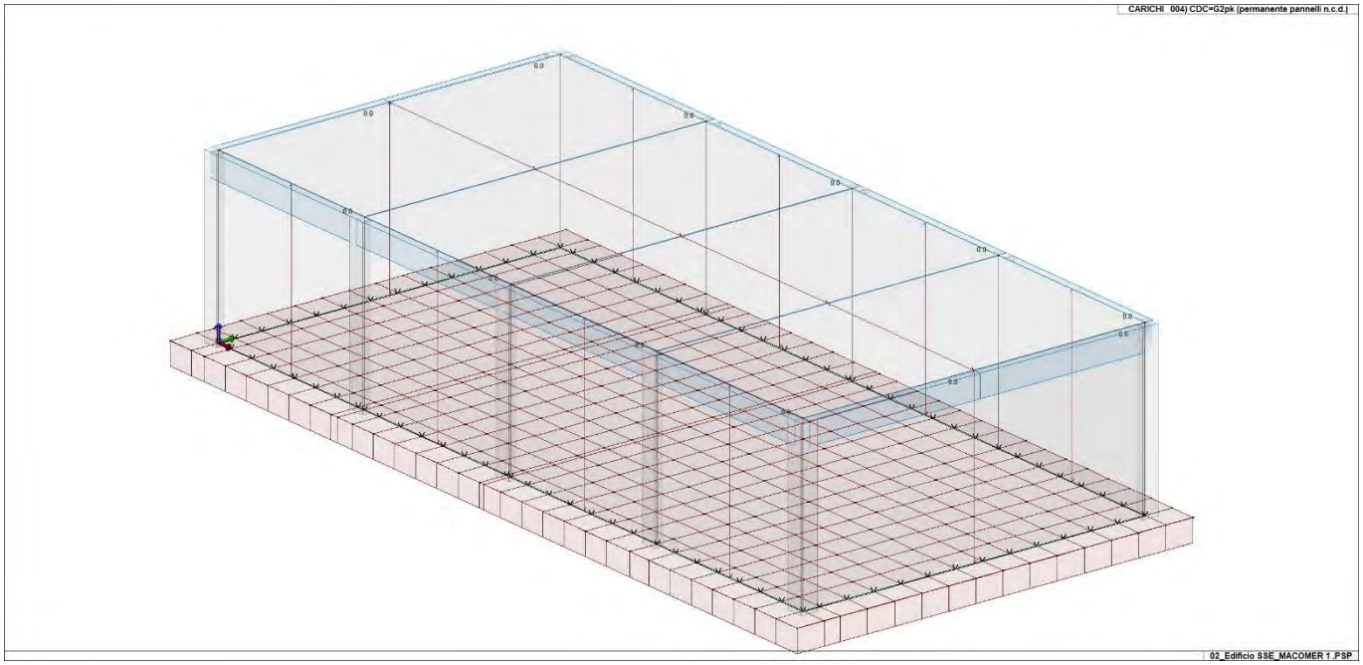
22_CDC_001_CDC=Ggk (peso proprio della struttura)



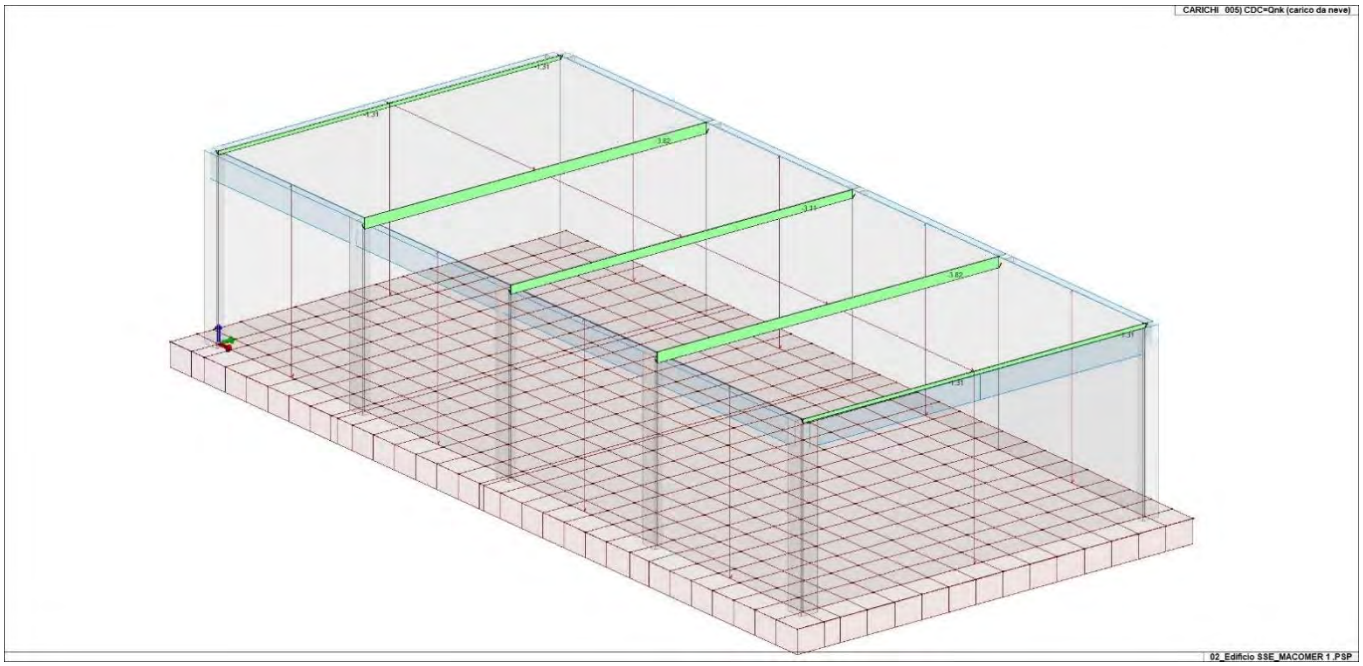
22_CDC_002_CDC=G1sk (permanente solai-coperture)



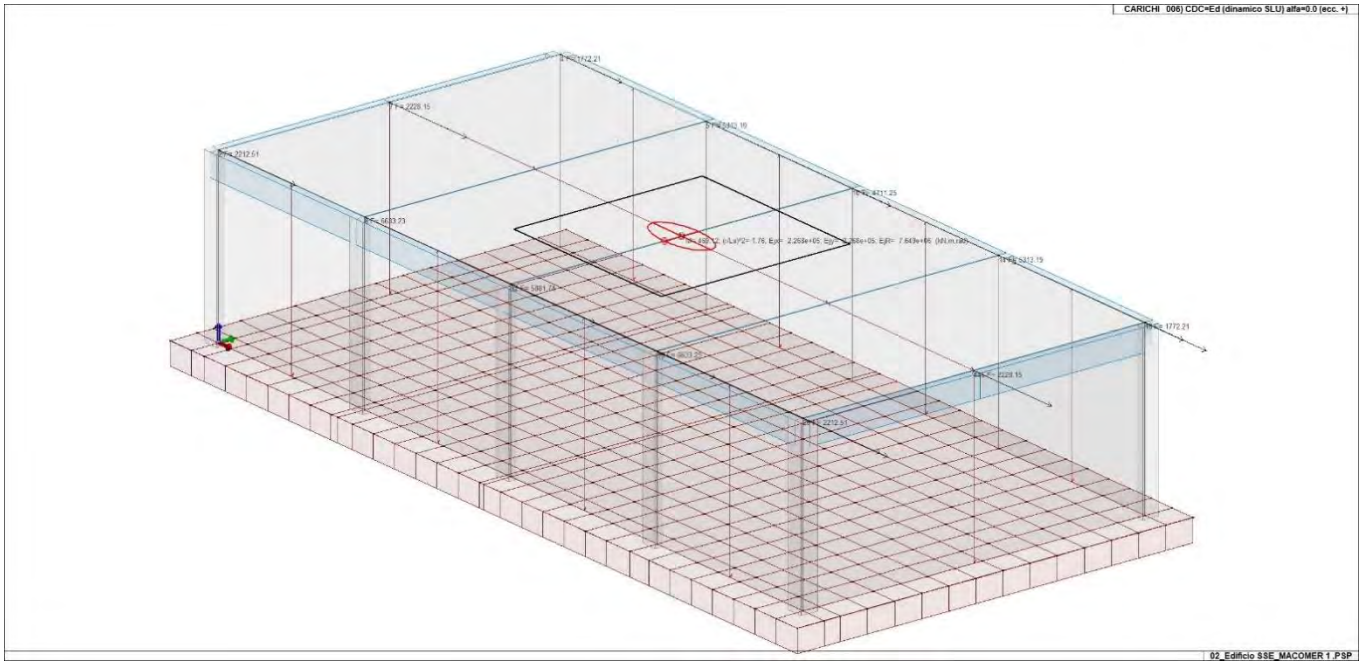
22_CDC_003_CDC=G2sk (permanente solai-coperture n.c.d.)



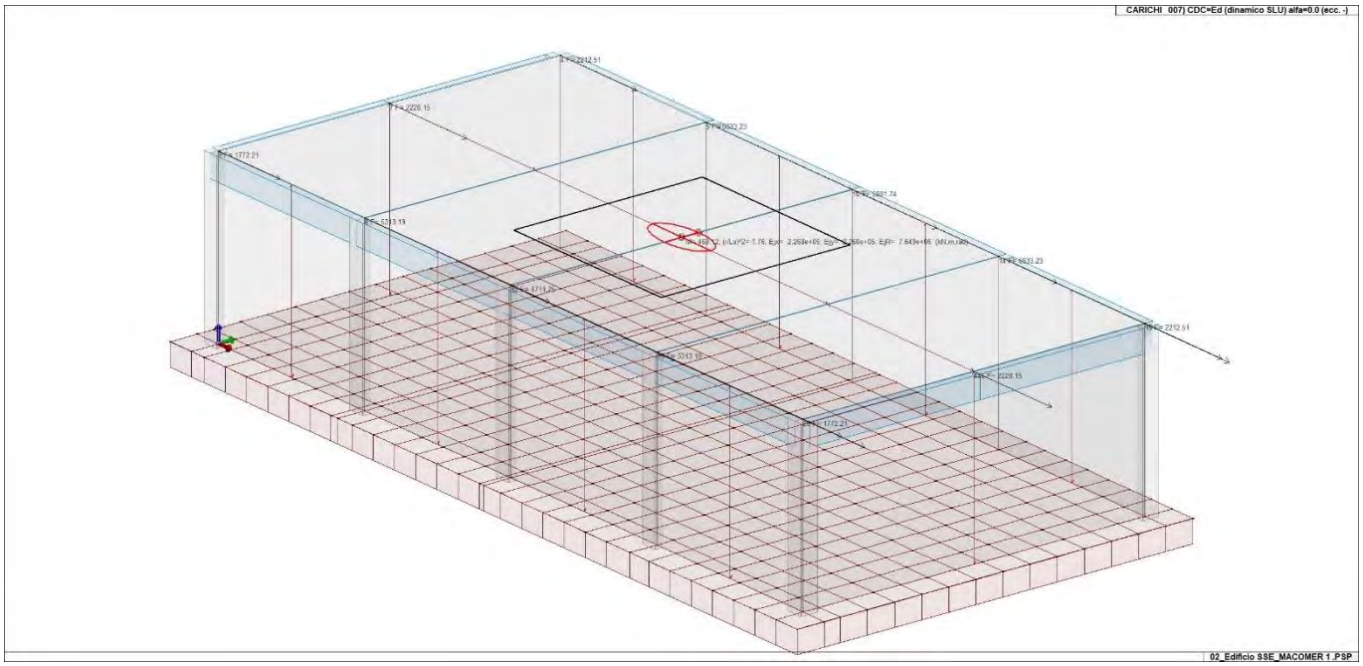
22_CDC_004_CDC=G2pk (permanente pannelli n.c.d.)



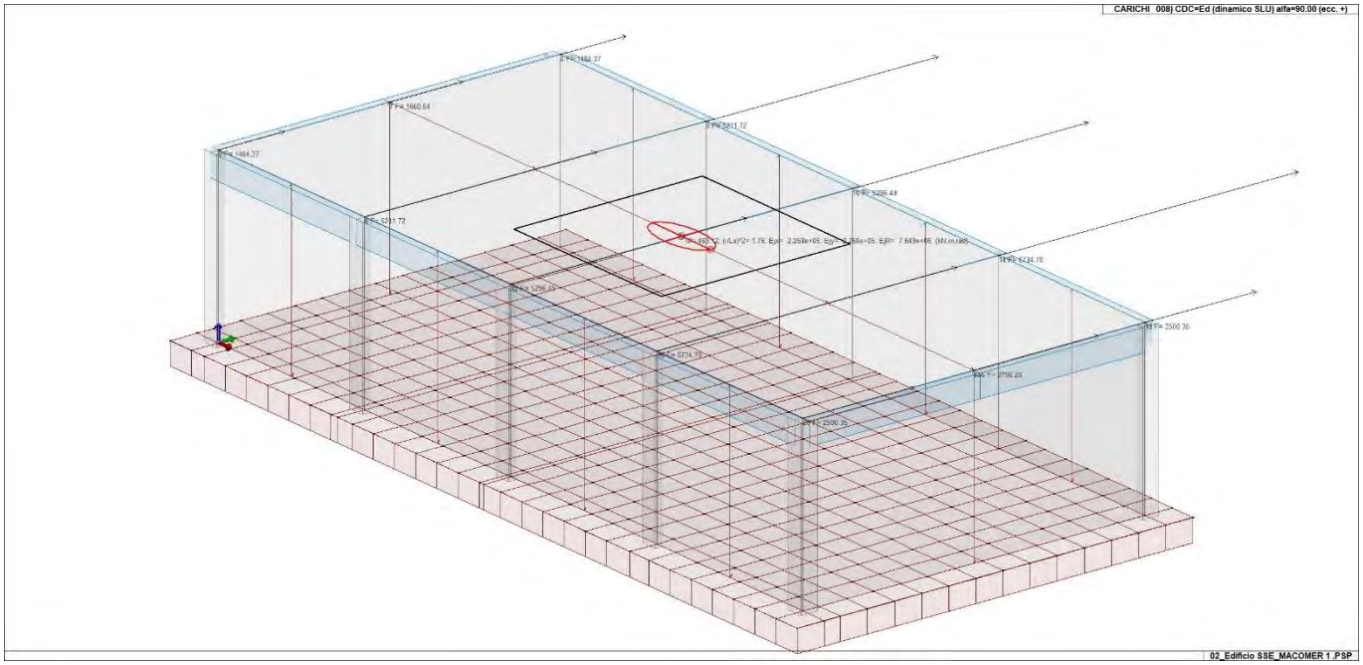
22_CDC_005_CDC=Qnk (carico da neve)



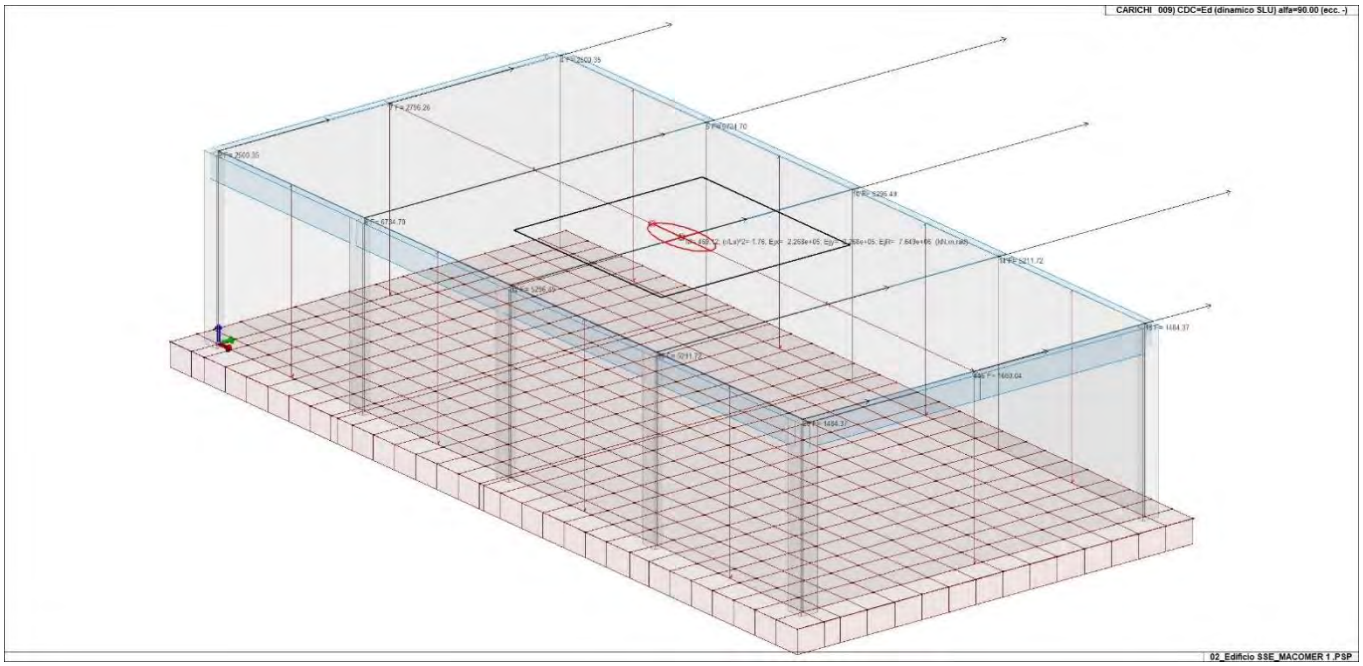
22_CDC_006_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)



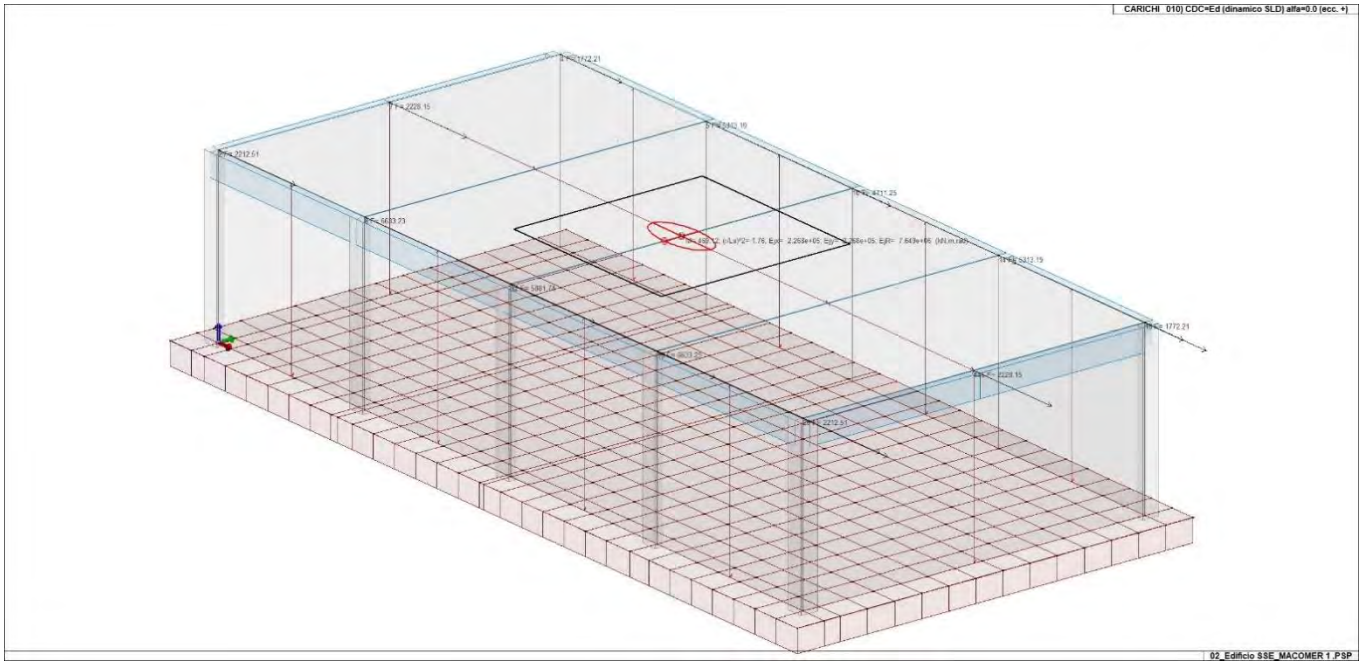
22_CDC_007_CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)



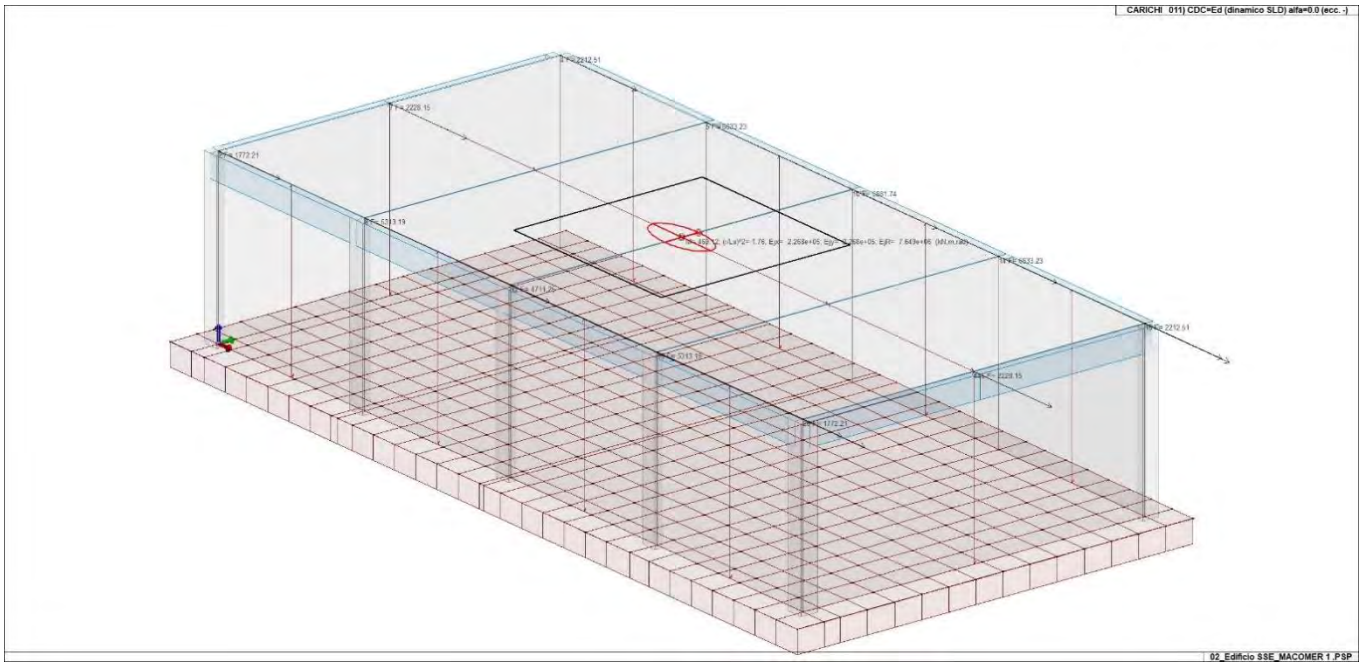
22_CDC_008_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)



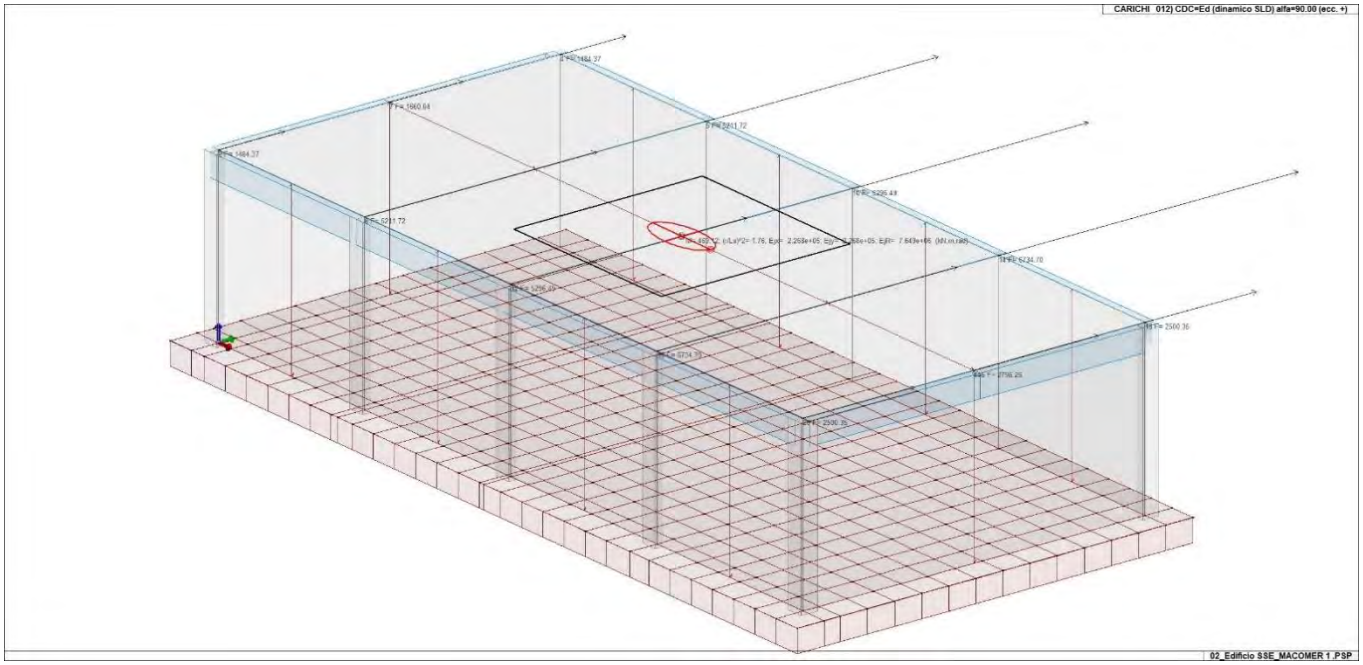
22_CDC_009_CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)



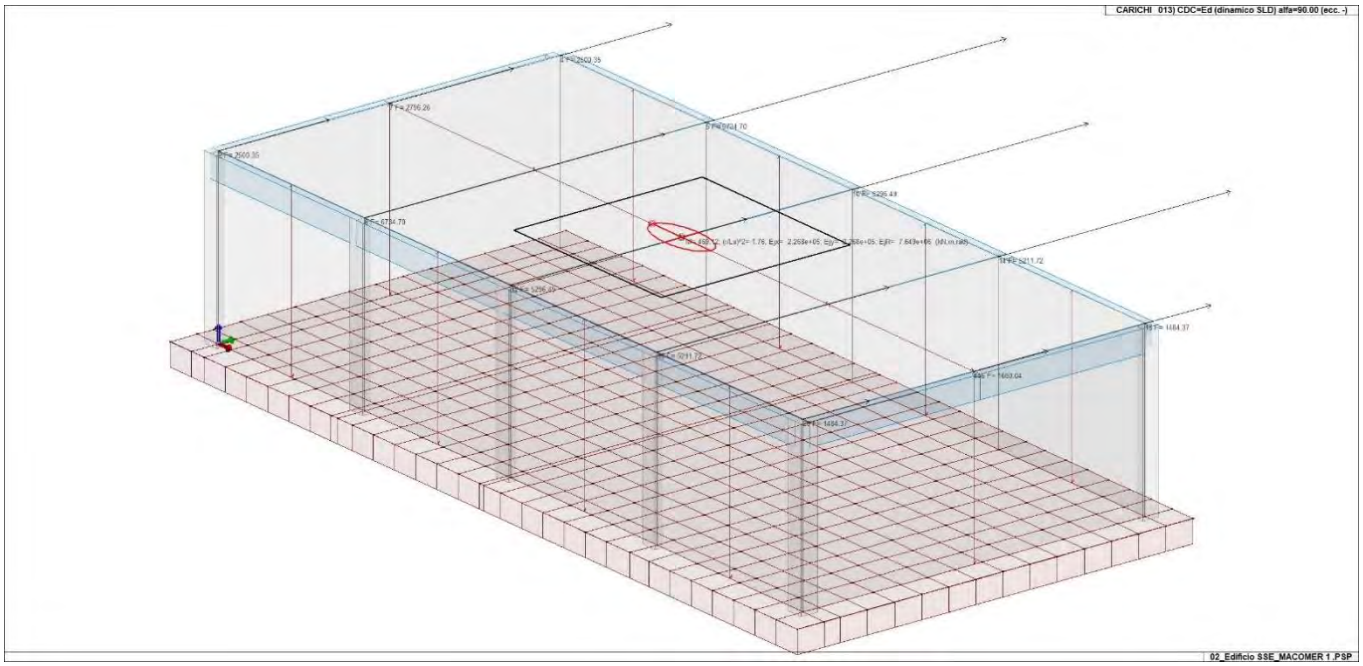
22_CDC_010_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)



22_CDC_011_CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)



22_CDC_012_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)



22_CDC_013_CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)

33. DEFINIZIONE DELLE COMBINAZIONI

33.1. LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente.

Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

***Combinazione fondamentale** SLU*

$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi 02 \cdot Qk2 + \gamma Q3 \cdot \psi 03 \cdot Qk3 + \ldots$

***Combinazione caratteristica** (rara) SLE*

$G1 + G2 + P + Qk1 + \psi 02 \cdot Qk2 + \psi 03 \cdot Qk3 + \ldots$

***Combinazione frequente** SLE*

$G1 + G2 + P + \psi 11 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \ldots$

***Combinazione quasi permanente** SLE*

$G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \ldots$

***Combinazione sismica**, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E*

$E + G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \ldots$

***Combinazione eccezionale**, impiegata per gli stati limite connessi alle azioni eccezionali*

$G1 + G2 + Ad + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \ldots$

Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	***ψ0***	***ψ1***	***ψ2***
Categoria A residenziali	*0,70*	*0,50*	*0,30*
Categoria B uffici	*0,70*	*0,50*	*0,30*
Categoria C ambienti suscettibili di affollamento	*0,70*	*0,70*	*0,60*
Categoria D ambienti ad uso commerciale	*0,70*	*0,70*	*0,60*
Categoria E biblioteche, archivi, magazzini,…	*1,00*	*0,90*	*0,80*
Categoria F Rimesse e parcheggi (autoveicoli <= 30kN)	*0,70*	*0,70*	*0,60*
Categoria G Rimesse e parcheggi (autoveicoli > 30kN)	*0,70*	*0,50*	*0,30*
Categoria H Coperture	*0,00*	*0,00*	*0,00*
Vento	*0,60*	*0,20*	*0,00*

Neve a quota <= 1000 m	*0,50*	*0,20*	*0,00*
Neve a quota > 1000 m	*0,70*	*0,50*	*0,20*
Variazioni Termiche	*0,60*	*0,50*	*0,00*

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:

- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),

- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.I

		Coefficiente γf	***EQU***	***A1***	***A2***
Carichi permanenti	*Favorevoli*	$\gamma G1$	*0,9*	*1,0*	*1,0*
	Sfavorevoli		*1,1*	*1,3*	*1,0*
Carichi permanenti non strutturali *(Non compiutamente definiti)*	*Favorevoli*	$\gamma G2$	*0,8*	*0,8*	*0,8*
	Sfavorevoli		*1,5*	*1,5*	*1,3*
Carichi variabili	*Favorevoli*	γQi	*0,0*	*0,0*	*0,0*
	Sfavorevoli		*1,5*	*1,5*	*1,3*

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 (SLV sism.) 5	
6	SLU	Comb. SLU A1 (SLV sism.) 6	
7	SLU	Comb. SLU A1 (SLV sism.) 7	
8	SLU	Comb. SLU A1 (SLV sism.) 8	
9	SLU	Comb. SLU A1 (SLV sism.) 9	
10	SLU	Comb. SLU A1 (SLV sism.) 10	
11	SLU	Comb. SLU A1 (SLV sism.) 11	
12	SLU	Comb. SLU A1 (SLV sism.) 12	
13	SLU	Comb. SLU A1 (SLV sism.) 13	
14	SLU	Comb. SLU A1 (SLV sism.) 14	
15	SLU	Comb. SLU A1 (SLV sism.) 15	
16	SLU	Comb. SLU A1 (SLV sism.) 16	
17	SLU	Comb. SLU A1 (SLV sism.) 17	
18	SLU	Comb. SLU A1 (SLV sism.) 18	
19	SLU	Comb. SLU A1 (SLV sism.) 19	
20	SLU	Comb. SLU A1 (SLV sism.) 20	
21	SLU	Comb. SLU A1 (SLV sism.) 21	
22	SLU	Comb. SLU A1 (SLV sism.) 22	
23	SLU	Comb. SLU A1 (SLV sism.) 23	
24	SLU	Comb. SLU A1 (SLV sism.) 24	
25	SLU	Comb. SLU A1 (SLV sism.) 25	
26	SLU	Comb. SLU A1 (SLV sism.) 26	

Cmb	Tipo	Sigla Id	effetto P-delta
27	SLU	Comb. SLU A1 (SLV sism.) 27	
28	SLU	Comb. SLU A1 (SLV sism.) 28	
29	SLU	Comb. SLU A1 (SLV sism.) 29	
30	SLU	Comb. SLU A1 (SLV sism.) 30	
31	SLU	Comb. SLU A1 (SLV sism.) 31	
32	SLU	Comb. SLU A1 (SLV sism.) 32	
33	SLU	Comb. SLU A1 (SLV sism.) 33	
34	SLU	Comb. SLU A1 (SLV sism.) 34	
35	SLU	Comb. SLU A1 (SLV sism.) 35	
36	SLU	Comb. SLU A1 (SLV sism.) 36	
37	SLD(sis)	Comb. SLE (SLD Danno sism.) 37	
38	SLD(sis)	Comb. SLE (SLD Danno sism.) 38	
39	SLD(sis)	Comb. SLE (SLD Danno sism.) 39	
40	SLD(sis)	Comb. SLE (SLD Danno sism.) 40	
41	SLD(sis)	Comb. SLE (SLD Danno sism.) 41	
42	SLD(sis)	Comb. SLE (SLD Danno sism.) 42	
43	SLD(sis)	Comb. SLE (SLD Danno sism.) 43	
44	SLD(sis)	Comb. SLE (SLD Danno sism.) 44	
45	SLD(sis)	Comb. SLE (SLD Danno sism.) 45	
46	SLD(sis)	Comb. SLE (SLD Danno sism.) 46	
47	SLD(sis)	Comb. SLE (SLD Danno sism.) 47	
48	SLD(sis)	Comb. SLE (SLD Danno sism.) 48	
49	SLD(sis)	Comb. SLE (SLD Danno sism.) 49	
50	SLD(sis)	Comb. SLE (SLD Danno sism.) 50	
51	SLD(sis)	Comb. SLE (SLD Danno sism.) 51	
52	SLD(sis)	Comb. SLE (SLD Danno sism.) 52	
53	SLD(sis)	Comb. SLE (SLD Danno sism.) 53	
54	SLD(sis)	Comb. SLE (SLD Danno sism.) 54	
55	SLD(sis)	Comb. SLE (SLD Danno sism.) 55	
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 56	
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 57	
58	SLD(sis)	Comb. SLE (SLD Danno sism.) 58	
59	SLD(sis)	Comb. SLE (SLD Danno sism.) 59	
60	SLD(sis)	Comb. SLE (SLD Danno sism.) 60	
61	SLD(sis)	Comb. SLE (SLD Danno sism.) 61	
62	SLD(sis)	Comb. SLE (SLD Danno sism.) 62	
63	SLD(sis)	Comb. SLE (SLD Danno sism.) 63	
64	SLD(sis)	Comb. SLE (SLD Danno sism.) 64	
65	SLD(sis)	Comb. SLE (SLD Danno sism.) 65	
66	SLD(sis)	Comb. SLE (SLD Danno sism.) 66	
67	SLD(sis)	Comb. SLE (SLD Danno sism.) 67	
68	SLD(sis)	Comb. SLE (SLD Danno sism.) 68	
69	SLE(r)	Comb. SLE(rara) 69	
70	SLE(r)	Comb. SLE(rara) 70	
71	SLE(f)	Comb. SLE(freq.) 71	
72	SLE(f)	Comb. SLE(freq.) 72	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.30	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	1.30	1.30	1.50	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	1.00	1.00	0.80	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	1.00	1.00	0.80	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	1.00	1.00	1.00	1.00	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	
6	1.00	1.00	1.00	1.00	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	
7	1.00	1.00	1.00	1.00	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	0.0	
8	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	
9	1.00	1.00	1.00	1.00	0.0	-1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	
10	1.00	1.00	1.00	1.00	0.0	-1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	
11	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	-0.30	0.0	0.0	0.0	0.0	
12	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.30	0.0	0.0	0.0	0.0	
13	1.00	1.00	1.00	1.00	0.0	0.0	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	
14	1.00	1.00	1.00	1.00	0.0	0.0	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	
15	1.00	1.00	1.00	1.00	0.0	0.0	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	
16	1.00	1.00	1.00	1.00	0.0	0.0	1.00	0.30	0.0	0.0	0.0	0.0	0.0	
17	1.00	1.00	1.00	1.00	0.0	0.0	-1.00	0.0	-0.30	0.0	0.0	0.0	0.0	
18	1.00	1.00	1.00	1.00	0.0	0.0	-1.00	0.0	0.30	0.0	0.0	0.0	0.0	
19	1.00	1.00	1.00	1.00	0.0	0.0	1.00	0.0	-0.30	0.0	0.0	0.0	0.0	
20	1.00	1.00	1.00	1.00	0.0	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	
21	1.00	1.00	1.00	1.00	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
22	1.00	1.00	1.00	1.00	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	
23	1.00	1.00	1.00	1.00	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	0.0	
24	1.00	1.00	1.00	1.00	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	0.0	
25	1.00	1.00	1.00	1.00	0.0	0.0	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	
26	1.00	1.00	1.00	1.00	0.0	0.0	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	
27	1.00	1.00	1.00	1.00	0.0	0.0	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	
28	1.00	1.00	1.00	1.00	0.0	0.0	0.30	1.00	0.0	0.0	0.0	0.0	0.0	
29	1.00	1.00	1.00	1.00	0.0	-0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	
30	1.00	1.00	1.00	1.00	0.0	-0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	
31	1.00	1.00	1.00	1.00	0.0	0.30	0.0	0.0	-1.00	0.0	0.0	0.0	0.0	
32	1.00	1.00	1.00	1.00	0.0	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0	
33	1.00	1.00	1.00	1.00	0.0	0.0	-0.30	0.0	-1.00	0.0	0.0	0.0	0.0	
34	1.00	1.00	1.00	1.00	0.0	0.0	-0.30	0.0	1.00	0.0	0.0	0.0	0.0	
35	1.00	1.00	1.00	1.00	0.0	0.0	0.30	0.0	-1.00	0.0	0.0	0.0	0.0	
36	1.00	1.00	1.00	1.00	0.0	0.0	0.30	0.0	1.00	0.0	0.0	0.0	0.0	
37	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	0.0	
38	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	0.0	
39	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	0.0	
40	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	0.0	
41	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	-0.30	
42	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.0	0.30	
43	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	-0.30	
44	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.30	
45	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0	
46	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0	
47	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0	
48	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0	
49	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	-0.30	
50	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	0.0	0.30	
51	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	-0.30	
52	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.30	
53	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	0.0	
54	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	0.0	
55	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	0.0	
56	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	0.0	
57	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0	
58	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0	
59	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0	
60	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0	
61	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	-1.00	
62	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	0.0	1.00	
63	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	-1.00	
64	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	1.00	
65	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	-1.00	
66	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	-0.30	0.0	1.00	
67	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	-1.00	
68	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	1.00	
69	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
70	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
71	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
72	1.00	1.00	1.00	1.00	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

34. AZIONE SISMICA

34.1. VALUTAZIONE DELL' AZIONE SISMICA

L'azione sismica sulle costruzioni è valutata a partire dalla "pericolosità sismica di base", in condizioni ideali di sito di riferimento rigido con superficie topografica orizzontale.

Allo stato attuale, la pericolosità sismica su reticolo di riferimento nell'intervallo di riferimento è fornita dai dati pubblicati sul sito http://esse1.mi.ingv.it/. Per punti non coincidenti con il reticolo di riferimento e periodi di ritorno non contemplati direttamente si opera come indicato nell' allegato alle NTC (rispettivamente media pesata e interpolazione).

L' azione sismica viene definita in relazione ad un periodo di riferimento Vr che si ricava, per ciascun tipo di costruzione, moltiplicandone la vita nominale per il coefficiente d'uso (vedi tabella Parametri della struttura). Fissato il periodo di riferimento Vr e la probabilità di superamento Pver associata a ciascuno degli stati limite considerati, si ottiene il periodo di ritorno Tr e i relativi parametri di pericolosità sismica (vedi tabella successiva):

ag: accelerazione orizzontale massima del terreno;

Fo: valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T*c: periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

34.1.1. Parametri della struttura

Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]	Tipo di suolo	Categoria topografica
IV	50.0	2.0	100.0	B	T1

Individuati su reticolo di riferimento i parametri di pericolosità sismica si valutano i parametri spettrali riportati in tabella:

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente S = Ss*St (3.2.3)

Fo è il fattore che quantifica l'amplificazione spettrale massima, su sito di riferimento rigido orizzontale

Fv è il fattore che quantifica l'amplificazione spettrale massima verticale, in termini di accelerazione orizzontale massima del terreno ag su sito di riferimento rigido orizzontale

Tb è il periodo corrispondente all'inizio del tratto dello spettro ad accelerazione costante.

Tc è il periodo corrispondente all'inizio del tratto dello spettro a velocità costante.

Td è il periodo corrispondente all'inizio del tratto dello spettro a spostamento costante.

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	8.779	40.265	

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	60.0	0.025	2.680	0.300
SLD	63.0	101.0	0.031	2.730	0.310
SLV	10.0	949.0	0.060	2.970	0.370
SLC	5.0	1950.0	0.071	3.060	0.390

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.025	1.200	2.680	0.577	0.140	0.420	1.702
SLD	0.031	1.200	2.730	0.653	0.144	0.431	1.726
SLV	0.060	1.200	2.970	0.981	0.166	0.497	1.840
SLC	0.071	1.200	3.060	1.098	0.173	0.518	1.883

35. RISULTATI ANALISI SISMICHE

35.1. LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

9. Esk caso di carico sismico con analisi statica equivalente

10. Edk caso di carico sismico con analisi dinamica

Ciascun caso di carico è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva (si rimanda al capitolo relativo ai casi di carico per chiarimenti inerenti questo aspetto).

Nella colonna Note, in funzione della norma in uso sono riportati i parametri fondamentali che caratterizzano l' azione sismica: in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	Angolo di ingresso dell'azione sismica orizzontale
Fattore di importanza	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
Zona sismica	Zona sismica
Accelerazione ag	Accelerazione orizzontale massima sul suolo
Categoria suolo	Categoria di profilo stratigrafico del suolo di fondazione
Fattore q	Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale
Fattore di sito S	Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD	Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa
Fattore riduz. SLD	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	Periodo proprio di vibrazione della struttura
Coefficiente Lambda	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata	Valore dell' ordinata dello spettro in uso nel tratto costante

spettro S (Tb-Tc)	
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

Per ciascun caso di carico sismico viene riportato l'insieme di dati sotto riportati (le masse sono espresse in unità di forza):

c) **analisi sismica statica equivalente**:
- quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo), indici di regolarità e/r secondo EC8 4.2.3.2
- azione sismica complessiva

d) **analisi sismica dinamica con spettro di risposta**:
- quota, posizione del centro di massa e massa risultante, posizione del baricentro delle rigidezze, rapporto r/Ls (per strutture a nucleo) **,** indici di regolarità e/r secondo EC8 4.2.3.2
- frequenza, periodo, accelerazione spettrale, massa eccitata nelle tre direzioni globali per tutti i modi
- massa complessiva ed aliquota di massa complessiva eccitata.

Per ciascuna combinazione sismica definita SLD o SLO viene riportato il livello di deformazione etaT (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità 1000*etaT/h da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

Qualora si applichi il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") l'analisi sismica dinamica può essere comprensiva di sollecitazione verticale contemporanea a quella orizzontale, nel qual caso è effettuata una sovrapposizione degli effetti in ragione della radice dei quadrati degli effetti stessi. Per ciascuna combinazione sismica - analisi effettuate con il D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento") - viene riportato il livello di deformazione etaT, etaP e etaD degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità 1000*etaT/h da confrontare direttamente con il valore 2 o 4 per la verifica.

Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo la circolare n.7/2019 del C.S.LL.PP nelle combinazioni in SLC come previsto dal DM 17-01-2018. Per ogni combinazione è riportato il codice di verifica ed i valori utilizzati per la verifica: spostamento dE, area ridotta e dimensione A2, azione verticale, deformazioni di taglio dell'elastomero e tensioni nell'acciaio.

Qualora si applichi l'Ordinanza 3274 e s.m.i. le verifiche sono eseguite in accordo con l'allegato 10.A.

In particolare la tabella, per ogni combinazione di calcolo, riporta:

Nodo	Nodo di appoggio dell' isolatore
Cmb	Combinazione oggetto della verifica
Verif.	Codice di verifica ok – verifica positiva , NV – verifica negativa, ND – verifica non completata
dE	Spostamento relativo tra le due facce (amplificato del 20% per Ordinanza 3274 e smi) combinato con la regola del 30%
Ang fi	Angolo utilizzato per il calcolo dell' area ridotta Ar (per dispositivi circolari)
V	Azione verticale agente

Ar	Area ridotta efficace
Dim A2	Dimensione utile per il calcolo della deformazione per rotazione
Sig s	Tensione nell' inserto in acciaio
Gam c(a,s,t)	Deformazioni di taglio dell' elestomero
Vcr	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

7) V > 0
8) Sig s < fyk
9) Gam t < 5
10) Gam s < Gam * (caratteristica dell' elastomero)
11) Gam s < 2
12) V < 0.5 Vcr

Con riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
23	DM 2008: SPETTRO
29	SISMICA 1000/H, SOMMA V, EFFETTO P-δ
30	ANALISI DI UN EDIFICIO CON ISOLATORI SISMICI
70	MASSE SISMICHE
75	PROGETTO DI ISOLATORI ELASTOMERICI
76	VERIFICA DI ISOLATORI ELASTOMERICI
77	VERIFICA DI ISOLATORI FRICTION PENDULUM

Calcolo dei fattori di comportamento secondo il D.M. 17/01/2018

La costruzione, nuova, è caratterizzata da regolarità sia in pianta sia in altezza ed è progettata in classe di duttilità media (CD"B").

Parametri fattore in direzione x e y

Sistema costruttivo: calcestruzzo
Tipologia strutturale: strutture a telaio, a pareti accoppiate, miste
Definizione rapporto α_u/α_1: valore come da normativa
Riferimento normativo α_u/α_1: strutture a telaio di un piano
Valore rapporto α_u/α_1 = 1.100
Valore base fattore $q_0 = 3.000$ α_u/α_1 = 3.300
Fattore pareti k_w = 1.000
Fattore di regolarità K_R = 1.0
Fattore dissipativo $q_D = q_0 \cdot k_w \cdot K_R$ = 3.300

Fattori di comportamento utilizzati

	Dissipativi
q SLU x	3.300
q SLU y	3.300
q SLU z	1.500

CDC	Tipo	Sigla Id	Note
6	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.065 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.170 sec.
			fattore q: 3.300
			fattore per spost. mu d: 7.736
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	4.691e+04	690.00	314.99	0.0	-31.50	690.00	314.99	1.759	0.0	0.0
Risulta	4.691e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.244	0.191	0.065	1.89e-03	4.03e-06	4.488e+04	95.7	1.88e-04	0.0	0.0	0.0
2	5.892	0.170	0.065	4.417e+04	94.2	1.42e-03	3.02e-06	2.73e-04	0.0	0.0	0.0
3	7.023	0.142	0.066	1909.43	4.1	0.69	1.47e-03	0.0	0.0	0.0	0.0
4	8.438	0.119	0.067	0.77	1.65e-03	1232.04	2.6	5.11e-04	1.09e-06	0.0	0.0
5	12.629	0.079	0.068	742.43	1.6	1.51	3.22e-03	5.81	1.24e-02	0.0	0.0
6	13.171	0.076	0.069	0.68	1.45e-03	1.99e-06	0.0	1.083e+04	23.1	0.0	0.0
7	16.604	0.060	0.069	0.90	1.92e-03	771.78	1.6	0.04	8.14e-05	0.0	0.0
8	19.681	0.051	0.070	0.08	1.66e-04	5.50e-03	1.17e-05	3.336e+04	71.1	0.0	0.0
9	29.306	0.034	0.070	0.93	1.98e-03	0.04	8.23e-05	2678.25	5.7	0.0	0.0
Risulta				4.683e+04		4.689e+04		4.687e+04			
In percentuale				99.82		99.94		99.91			

CDC	Tipo	Sigla Id	Note
7	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.065 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa

CDC	Tipo	Sigla Id	Note
			periodo proprio T1: 0.170 sec.
			fattore q: 3.300
			fattore per spost. mu d: 7.740
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	4.691e+04	690.00	314.99	0.0	31.50	690.00	314.99	1.759	0.0	0.0
Risulta	4.691e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.244	0.191	0.065	0.04	7.95e-05	4.488e+04	95.7	1.89e-04	0.0	0.0	0.0
2	5.896	0.170	0.065	4.424e+04	94.3	0.08	1.72e-04	2.71e-04	0.0	0.0	0.0
3	6.994	0.143	0.066	1846.47	3.9	0.64	1.37e-03	1.15e-04	0.0	0.0	0.0
4	8.438	0.119	0.067	0.58	1.23e-03	1232.11	2.6	4.93e-04	1.05e-06	0.0	0.0
5	12.652	0.079	0.068	738.49	1.6	1.43	3.04e-03	7.96	1.70e-02	0.0	0.0
6	13.172	0.076	0.069	0.86	1.82e-03	2.87e-05	0.0	1.083e+04	23.1	0.0	0.0
7	16.605	0.060	0.069	0.87	1.86e-03	771.82	1.6	0.03	6.57e-05	0.0	0.0
8	19.681	0.051	0.070	0.10	2.11e-04	5.36e-03	1.14e-05	3.336e+04	71.1	0.0	0.0
9	29.331	0.034	0.070	0.92	1.95e-03	0.04	8.40e-05	2672.04	5.7	0.0	0.0
Risulta				4.683e+04		4.689e+04		4.687e+04			
In percentuale				99.82		99.94		99.91			

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.065 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.194 sec.
			fattore q: 3.300
			fattore per spost. mu d: 6.888
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	4.691e+04	690.00	314.99	69.00	0.0	690.00	314.99	1.759	0.0	0.0
Risulta	4.691e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.151	0.194	0.065	9.21e-04	1.96e-06	4.272e+04	91.1	2.08e-04	0.0	0.0	0.0
2	5.956	0.168	0.065	4.619e+04	98.5	6.25e-05	0.0	2.83e-04	0.0	0.0	0.0
3	6.587	0.152	0.065	0.02	5.16e-05	2555.52	5.4	4.88e-06	0.0	0.0	0.0
4	11.052	0.090	0.068	1.27e-04	0.0	1420.31	3.0	0.09	1.83e-04	0.0	0.0
5	13.063	0.077	0.069	556.23	1.2	8.89e-04	1.90e-06	29.44	6.28e-02	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
6	13.172	0.076	0.069	1.66	3.53e-03	0.07	1.59e-04	1.081e+04	23.0	0.0	0.0
7	18.762	0.053	0.070	123.63	0.3	1.13e-05	0.0	38.19	8.14e-02	0.0	0.0
8	19.687	0.051	0.070	0.18	3.76e-04	0.06	1.23e-04	3.337e+04	71.1	0.0	0.0
9	29.532	0.034	0.070	0.07	1.42e-04	0.75	1.59e-03	2629.66	5.6	0.0	0.0
Risulta				4.687e+04		4.669e+04		4.688e+04			
In percentuale				99.91		99.53		99.93			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.065 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.194 sec.
			fattore q: 3.300
			fattore per spost. mu d: 6.883
			classe di duttilità CD: B
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	4.691e+04	690.00	314.99	-69.00	0.0	690.00	314.99	1.759	0.0	0.0
Risulta	4.691e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.146	0.194	0.065	0.02	4.71e-05	4.260e+04	90.8	1.33e-04	0.0	0.0	0.0
2	5.956	0.168	0.065	4.619e+04	98.5	0.02	5.13e-05	3.14e-04	0.0	0.0	0.0
3	6.579	0.152	0.065	4.16e-05	0.0	2656.04	5.7	1.21e-04	0.0	0.0	0.0
4	11.021	0.091	0.068	0.27	5.83e-04	1429.04	3.0	0.01	2.32e-05	0.0	0.0
5	13.070	0.077	0.069	558.47	1.2	1.37	2.92e-03	17.96	3.83e-02	0.0	0.0
6	13.171	0.076	0.069	0.88	1.87e-03	0.02	3.98e-05	1.082e+04	23.1	0.0	0.0
7	18.840	0.053	0.070	121.76	0.3	1.60	3.40e-03	101.76	0.2	0.0	0.0
8	19.689	0.051	0.070	0.46	9.84e-04	4.29e-03	9.14e-06	3.331e+04	71.0	0.0	0.0
9	29.554	0.034	0.070	0.08	1.67e-04	1.43e-03	3.04e-06	2626.54	5.6	0.0	0.0
Risulta				4.687e+04		4.669e+04		4.688e+04			
In percentuale				99.91		99.53		99.93			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.103 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.170 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	4.691e+04	690.00	314.99	0.0	-31.50	690.00	314.99	1.759	0.0	0.0
Risulta	4.691e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.244	0.191	0.103	1.89e-03	4.03e-06	4.488e+04	95.7	1.88e-04	0.0	0.0	0.0
2	5.892	0.170	0.103	4.417e+04	94.2	1.42e-03	3.02e-06	2.73e-04	0.0	0.0	0.0
3	7.023	0.142	0.102	1909.43	4.1	0.69	1.47e-03	0.0	0.0	0.0	0.0
4	8.438	0.119	0.091	0.77	1.65e-03	1232.04	2.6	5.11e-04	1.09e-06	0.0	0.0
5	12.629	0.079	0.074	742.43	1.6	1.51	3.22e-03	5.81	1.24e-02	0.0	0.0
6	13.171	0.076	0.072	0.68	1.45e-03	1.99e-06	0.0	1.083e+04	23.1	0.0	0.0
7	16.604	0.060	0.065	0.90	1.92e-03	771.78	1.6	0.04	8.14e-05	0.0	0.0
8	19.681	0.051	0.061	0.08	1.66e-04	5.50e-03	1.17e-05	3.336e+04	71.1	0.0	0.0
9	29.306	0.034	0.053	0.93	1.98e-03	0.04	8.23e-05	2678.25	5.7	0.0	0.0
Risulta				4.683e+04		4.689e+04		4.687e+04			
In percentuale				99.82		99.94		99.91			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.103 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.170 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	4.691e+04	690.00	314.99	0.0	31.50	690.00	314.99	1.759	0.0	0.0
Risulta	4.691e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.244	0.191	0.103	0.04	7.95e-05	4.488e+04	95.7	1.89e-04	0.0	0.0	0.0
2	5.896	0.170	0.103	4.424e+04	94.3	0.08	1.72e-04	2.71e-04	0.0	0.0	0.0
3	6.994	0.143	0.102	1846.47	3.9	0.64	1.37e-03	1.15e-04	0.0	0.0	0.0
4	8.438	0.119	0.091	0.58	1.23e-03	1232.11	2.6	4.93e-04	1.05e-06	0.0	0.0
5	12.652	0.079	0.073	738.49	1.6	1.43	3.04e-03	7.96	1.70e-02	0.0	0.0
6	13.172	0.076	0.072	0.86	1.82e-03	2.87e-05	0.0	1.083e+04	23.1	0.0	0.0
7	16.605	0.060	0.065	0.87	1.86e-03	771.82	1.6	0.03	6.57e-05	0.0	0.0
8	19.681	0.051	0.061	0.10	2.11e-04	5.36e-03	1.14e-05	3.336e+04	71.1	0.0	0.0
9	29.331	0.034	0.053	0.92	1.95e-03	0.04	8.40e-05	2672.04	5.7	0.0	0.0
Risulta				4.683e+04		4.689e+04		4.687e+04			
In percentuale				99.82		99.94		99.91			

CDC	Tipo	Sigla Id	Note
12	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: B

CDC	Tipo	Sigla Id	Note
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.103 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.194 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	4.691e+04	690.00	314.99	69.00	0.0	690.00	314.99	1.759	0.0	0.0
Risulta	4.691e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.151	0.194	0.103	9.21e-04	1.96e-06	4.272e+04	91.1	2.08e-04	0.0	0.0	0.0
2	5.956	0.168	0.103	4.619e+04	98.5	6.25e-05	0.0	2.83e-04	0.0	0.0	0.0
3	6.587	0.152	0.103	0.02	5.16e-05	2555.52	5.4	4.88e-06	0.0	0.0	0.0
4	11.052	0.090	0.079	1.27e-04	0.0	1420.31	3.0	0.09	1.83e-04	0.0	0.0
5	13.063	0.077	0.072	556.23	1.2	8.89e-04	1.90e-06	29.44	6.28e-02	0.0	0.0
6	13.172	0.076	0.072	1.66	3.53e-03	0.07	1.59e-04	1.081e+04	23.0	0.0	0.0
7	18.762	0.053	0.062	123.63	0.3	1.13e-05	0.0	38.19	8.14e-02	0.0	0.0
8	19.687	0.051	0.061	0.18	3.76e-04	0.06	1.23e-04	3.337e+04	71.1	0.0	0.0
9	29.532	0.034	0.053	0.07	1.42e-04	0.75	1.59e-03	2629.66	5.6	0.0	0.0
Risulta				4.687e+04		4.669e+04		4.688e+04			
In percentuale				99.91		99.53		99.93			

CDC	Tipo	Sigla Id	Note
13	Edk	CDC=Ed (dinamico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.103 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.194 sec.
			numero di modi considerati: 9
			combinaz. modale: CQC

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	(r/Ls)^2	rapp. ex/rx	rapp. ey/ry
cm	daN	cm	cm	cm	cm	cm	cm			
300.00	4.691e+04	690.00	314.99	-69.00	0.0	690.00	314.99	1.759	0.0	0.0
Risulta	4.691e+04									

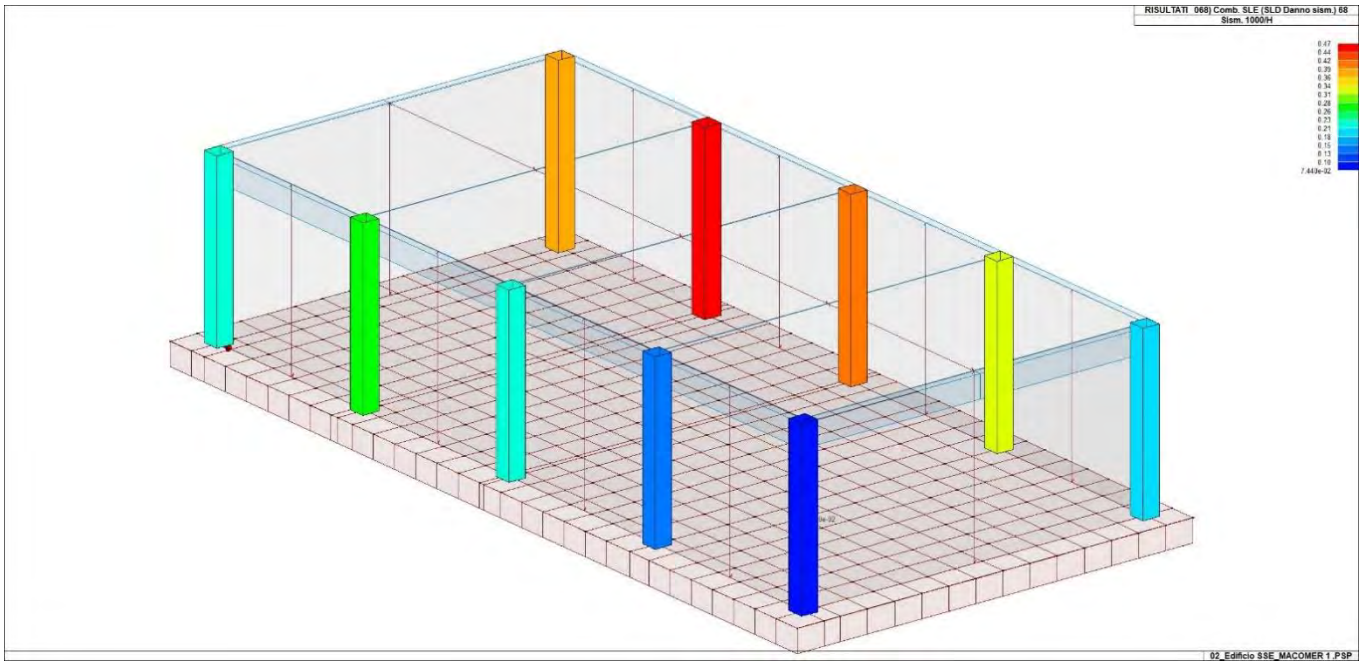
Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	daN		daN		daN			
1	5.146	0.194	0.103	0.02	4.71e-05	4.260e+04	90.8	1.33e-04	0.0	0.0	0.0
2	5.956	0.168	0.103	4.619e+04	98.5	0.02	5.13e-05	3.14e-04	0.0	0.0	0.0
3	6.579	0.152	0.103	4.16e-05	0.0	2656.04	5.7	1.21e-04	0.0	0.0	0.0
4	11.021	0.091	0.079	0.27	5.83e-04	1429.04	3.0	0.01	2.32e-05	0.0	0.0
5	13.070	0.077	0.072	558.47	1.2	1.37	2.92e-03	17.96	3.83e-02	0.0	0.0
6	13.171	0.076	0.072	0.88	1.87e-03	0.02	3.98e-05	1.082e+04	23.1	0.0	0.0
7	18.840	0.053	0.062	121.76	0.3	1.60	3.40e-03	101.76	0.2	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
8	19.689	0.051	0.061	0.46	9.84e-04	4.29e-03	9.14e-06	3.331e+04	71.0	0.0	0.0
9	29.554	0.034	0.053	0.08	1.67e-04	1.43e-03	3.04e-06	2626.54	5.6	0.0	0.0
Risulta				4.687e+04		4.669e+04		4.688e+04			
In percentuale				99.91		99.53		99.93			

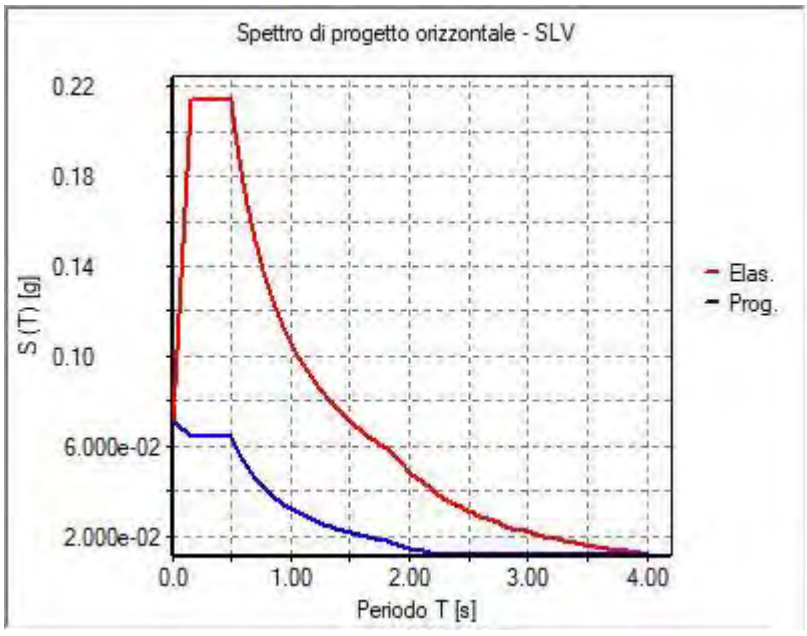
Cmb	Pilas.	1000 etaT/h	etaT cm	inter. h cm	Pilas.	1000 etaT/h	etaT cm	inter. h cm	Pilas.	1000 etaT/h	etaT cm	inter. h cm
37	1	0.26	0.08	300.0	2	0.17	0.05	300.0	4	0.28	0.08	300.0
	6	0.17	0.05	300.0	10	0.30	0.09	300.0	12	0.17	0.05	300.0
	15	0.32	0.10	300.0	17	0.17	0.05	300.0	20	0.30	0.09	300.0
	22	0.17	0.05	300.0								
38	1	0.25	0.08	300.0	2	0.21	0.06	300.0	4	0.25	0.07	300.0
	6	0.23	0.07	300.0	10	0.25	0.07	300.0	12	0.24	0.07	300.0
	15	0.25	0.07	300.0	17	0.24	0.07	300.0	20	0.24	0.07	300.0
	22	0.19	0.06	300.0								
39	1	0.27	0.08	300.0	2	0.17	0.05	300.0	4	0.29	0.09	300.0
	6	0.17	0.05	300.0	10	0.29	0.09	300.0	12	0.17	0.05	300.0
	15	0.30	0.09	300.0	17	0.17	0.05	300.0	20	0.27	0.08	300.0
	22	0.18	0.05	300.0								
40	1	0.25	0.07	300.0	2	0.17	0.05	300.0	4	0.25	0.08	300.0
	6	0.21	0.06	300.0	10	0.25	0.08	300.0	12	0.23	0.07	300.0
	15	0.25	0.08	300.0	17	0.26	0.08	300.0	20	0.26	0.08	300.0
	22	0.24	0.07	300.0								
41	1	0.27	0.08	300.0	2	0.18	0.05	300.0	4	0.30	0.09	300.0
	6	0.17	0.05	300.0	10	0.30	0.09	300.0	12	0.17	0.05	300.0
	15	0.29	0.09	300.0	17	0.17	0.05	300.0	20	0.27	0.08	300.0
	22	0.17	0.05	300.0								
42	1	0.26	0.08	300.0	2	0.24	0.07	300.0	4	0.25	0.08	300.0
	6	0.26	0.08	300.0	10	0.25	0.08	300.0	12	0.23	0.07	300.0
	15	0.25	0.08	300.0	17	0.21	0.06	300.0	20	0.25	0.07	300.0
	22	0.17	0.05	300.0								
43	1	0.30	0.09	300.0	2	0.17	0.05	300.0	4	0.32	0.10	300.0
	6	0.17	0.05	300.0	10	0.30	0.09	300.0	12	0.17	0.05	300.0
	15	0.28	0.08	300.0	17	0.17	0.05	300.0	20	0.26	0.08	300.0
	22	0.18	0.05	300.0								
44	1	0.24	0.07	300.0	2	0.19	0.06	300.0	4	0.25	0.07	300.0
	6	0.24	0.07	300.0	10	0.25	0.07	300.0	12	0.24	0.07	300.0
	15	0.25	0.07	300.0	17	0.23	0.07	300.0	20	0.25	0.08	300.0
	22	0.21	0.06	300.0								
45	1	0.21	0.06	300.0	2	0.25	0.08	300.0	4	0.23	0.07	300.0
	6	0.24	0.07	300.0	10	0.24	0.07	300.0	12	0.25	0.07	300.0
	15	0.24	0.07	300.0	17	0.25	0.07	300.0	20	0.19	0.06	300.0
	22	0.24	0.07	300.0								
46	1	0.18	0.05	300.0	2	0.26	0.08	300.0	4	0.17	0.05	300.0
	6	0.28	0.08	300.0	10	0.17	0.05	300.0	12	0.30	0.09	300.0
	15	0.17	0.05	300.0	17	0.32	0.10	300.0	20	0.17	0.05	300.0
	22	0.30	0.09	300.0								
47	1	0.17	0.05	300.0	2	0.25	0.07	300.0	4	0.21	0.06	300.0
	6	0.25	0.08	300.0	10	0.23	0.07	300.0	12	0.25	0.08	300.0
	15	0.26	0.08	300.0	17	0.25	0.08	300.0	20	0.24	0.07	300.0
	22	0.26	0.08	300.0								
48	1	0.17	0.05	300.0	2	0.27	0.08	300.0	4	0.17	0.05	300.0
	6	0.29	0.09	300.0	10	0.17	0.05	300.0	12	0.29	0.09	300.0
	15	0.17	0.05	300.0	17	0.30	0.09	300.0	20	0.18	0.05	300.0
	22	0.27	0.08	300.0								
49	1	0.24	0.07	300.0	2	0.26	0.08	300.0	4	0.26	0.08	300.0
	6	0.25	0.08	300.0	10	0.23	0.07	300.0	12	0.25	0.08	300.0
	15	0.21	0.06	300.0	17	0.25	0.08	300.0	20	0.17	0.05	300.0
	22	0.25	0.07	300.0								
50	1	0.18	0.05	300.0	2	0.27	0.08	300.0	4	0.17	0.05	300.0
	6	0.30	0.09	300.0	10	0.17	0.05	300.0	12	0.29	0.09	300.0
	15	0.17	0.05	300.0	17	0.29	0.09	300.0	20	0.17	0.05	300.0
	22	0.27	0.08	300.0								
51	1	0.19	0.06	300.0	2	0.24	0.07	300.0	4	0.24	0.07	300.0
	6	0.25	0.07	300.0	10	0.24	0.07	300.0	12	0.25	0.07	300.0
	15	0.23	0.07	300.0	17	0.24	0.07	300.0	20	0.22	0.06	300.0
	22	0.25	0.08	300.0								
52	1	0.17	0.05	300.0	2	0.30	0.09	300.0	4	0.17	0.05	300.0
	6	0.32	0.10	300.0	10	0.17	0.05	300.0	12	0.30	0.09	300.0

	15	0.17	0.05	300.0	17	0.28	0.08	300.0	20	0.18	0.05	300.0
	22	0.26	0.08	300.0								
53	1	0.20	0.06	300.0	2	0.07	0.02	300.0	4	0.32	0.10	300.0
	6	0.13	0.04	300.0	10	0.41	0.12	300.0	12	0.22	0.07	300.0
	15	0.47	0.14	300.0	17	0.27	0.08	300.0	20	0.36	0.11	300.0
	22	0.23	0.07	300.0								
54	1	0.10	0.03	300.0	2	0.21	0.06	300.0	4	0.15	0.04	300.0
	6	0.32	0.10	300.0	10	0.23	0.07	300.0	12	0.41	0.12	300.0
	15	0.27	0.08	300.0	17	0.46	0.14	300.0	20	0.22	0.07	300.0
	22	0.35	0.10	300.0								
55	1	0.20	0.06	300.0	2	0.09	0.03	300.0	4	0.32	0.10	300.0
	6	0.14	0.04	300.0	10	0.41	0.12	300.0	12	0.23	0.07	300.0
	15	0.46	0.14	300.0	17	0.27	0.08	300.0	20	0.35	0.10	300.0
	22	0.22	0.07	300.0								
56	1	0.10	0.03	300.0	2	0.18	0.05	300.0	4	0.15	0.05	300.0
	6	0.31	0.09	300.0	10	0.24	0.07	300.0	12	0.41	0.12	300.0
	15	0.28	0.08	300.0	17	0.46	0.14	300.0	20	0.25	0.07	300.0
	22	0.36	0.11	300.0								
57	1	0.21	0.06	300.0	2	0.10	0.03	300.0	4	0.32	0.10	300.0
	6	0.15	0.04	300.0	10	0.41	0.12	300.0	12	0.23	0.07	300.0
	15	0.46	0.14	300.0	17	0.27	0.08	300.0	20	0.34	0.10	300.0
	22	0.22	0.07	300.0								
58	1	0.08	0.02	300.0	2	0.20	0.06	300.0	4	0.13	0.04	300.0
	6	0.32	0.10	300.0	10	0.22	0.07	300.0	12	0.41	0.12	300.0
	15	0.27	0.08	300.0	17	0.47	0.14	300.0	20	0.23	0.07	300.0
	22	0.37	0.11	300.0								
59	1	0.18	0.05	300.0	2	0.10	0.03	300.0	4	0.31	0.09	300.0
	6	0.15	0.05	300.0	10	0.40	0.12	300.0	12	0.24	0.07	300.0
	15	0.46	0.14	300.0	17	0.28	0.08	300.0	20	0.36	0.11	300.0
	22	0.24	0.07	300.0								
60	1	0.09	0.03	300.0	2	0.20	0.06	300.0	4	0.15	0.04	300.0
	6	0.32	0.10	300.0	10	0.23	0.07	300.0	12	0.41	0.12	300.0
	15	0.27	0.08	300.0	17	0.46	0.14	300.0	20	0.22	0.07	300.0
	22	0.35	0.10	300.0								
61	1	0.35	0.10	300.0	2	0.22	0.07	300.0	4	0.46	0.14	300.0
	6	0.27	0.08	300.0	10	0.41	0.12	300.0	12	0.23	0.07	300.0
	15	0.32	0.10	300.0	17	0.14	0.04	300.0	20	0.20	0.06	300.0
	22	0.09	0.03	300.0								
62	1	0.25	0.07	300.0	2	0.36	0.11	300.0	4	0.28	0.08	300.0
	6	0.46	0.14	300.0	10	0.24	0.07	300.0	12	0.40	0.12	300.0
	15	0.15	0.05	300.0	17	0.31	0.09	300.0	20	0.10	0.03	300.0
	22	0.18	0.05	300.0								
63	1	0.37	0.11	300.0	2	0.23	0.07	300.0	4	0.47	0.14	300.0
	6	0.27	0.08	300.0	10	0.41	0.12	300.0	12	0.22	0.07	300.0
	15	0.32	0.09	300.0	17	0.13	0.04	300.0	20	0.19	0.06	300.0
	22	0.07	0.02	300.0								
64	1	0.22	0.07	300.0	2	0.35	0.10	300.0	4	0.27	0.08	300.0
	6	0.46	0.14	300.0	10	0.23	0.07	300.0	12	0.41	0.12	300.0
	15	0.15	0.04	300.0	17	0.32	0.10	300.0	20	0.10	0.03	300.0
	22	0.21	0.06	300.0								
65	1	0.36	0.11	300.0	2	0.25	0.07	300.0	4	0.46	0.14	300.0
	6	0.28	0.08	300.0	10	0.40	0.12	300.0	12	0.24	0.07	300.0
	15	0.31	0.09	300.0	17	0.15	0.04	300.0	20	0.17	0.05	300.0
	22	0.10	0.03	300.0								
66	1	0.22	0.07	300.0	2	0.35	0.10	300.0	4	0.27	0.08	300.0
	6	0.46	0.14	300.0	10	0.23	0.07	300.0	12	0.41	0.12	300.0
	15	0.14	0.04	300.0	17	0.32	0.10	300.0	20	0.09	0.03	300.0
	22	0.20	0.06	300.0								
67	1	0.35	0.10	300.0	2	0.22	0.07	300.0	4	0.46	0.14	300.0
	6	0.27	0.08	300.0	10	0.41	0.12	300.0	12	0.23	0.07	300.0
	15	0.32	0.10	300.0	17	0.14	0.04	300.0	20	0.21	0.06	300.0
	22	0.10	0.03	300.0								
68	1	0.23	0.07	300.0	2	0.37	0.11	300.0	4	0.27	0.08	300.0
	6	0.47	0.14	300.0	10	0.22	0.07	300.0	12	0.41	0.12	300.0
	15	0.13	0.04	300.0	17	0.32	0.09	300.0	20	0.07	0.02	300.0
	22	0.20	0.06	300.0								

Cmb	**1000 etaT/h**
	0.47



31_RIS_SLE_068_Comb. SLE (SLD Danno sism.) 68



31_RIS_SPETTRI_PROGETTO_SLV_O

36. RISULTATI NODALI

36.1. LEGENDA RISULTATI NODALI

Il controllo dei risultati delle analisi condotte, per quanto concerne i nodi strutturali, è possibile in relazione alle tabelle sottoriportate.

Una prima tabella riporta infatti per ogni nodo e per ogni combinazione (o caso di carico) gli spostamenti nodali.

Una seconda tabella riporta per ogni nodo a cui sia associato un vincolo rigido e/o elastico o una fondazione speciale e per ogni combinazione (o caso di carico) i valori delle azioni esercitate dalla struttura sui vincoli (reazioni vincolari cambiate di segno).

Una terza tabella, infine riassume per ogni nodo le sei combinazioni in cui si attingono i valori minimi e massimi della reazione Fz, della reazione Mx e della reazione My.

Nodo	Cmb	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		cm	cm	cm			
1	1	-6.10e-04	-5.88e-03	-0.22	2.91e-04	-2.99e-05	0.0
1	2	-4.99e-04	-7.04e-03	-0.24	3.49e-04	-2.40e-05	0.0
1	8	-4.25e-03	-4.13e-03	-0.18	2.42e-04	-6.01e-05	-2.08e-06
1	32	-9.65e-04	-8.52e-03	-0.18	2.75e-04	-3.66e-05	1.89e-06
1	36	-7.02e-04	-9.14e-03	-0.18	2.75e-04	-3.38e-05	2.87e-06
1	40	-6.48e-03	-3.91e-03	-0.18	2.53e-04	-8.21e-05	-3.46e-06
1	64	-1.26e-03	-0.01	-0.19	3.06e-04	-4.48e-05	2.84e-06
1	68	-8.43e-04	-0.01	-0.19	3.05e-04	-4.03e-05	4.38e-06
1	69	-4.64e-04	-4.51e-03	-0.17	2.24e-04	-2.27e-05	0.0
1	70	-3.90e-04	-5.29e-03	-0.18	2.62e-04	-1.88e-05	0.0
1	71	-4.64e-04	-4.51e-03	-0.17	2.24e-04	-2.27e-05	0.0
1	72	-4.49e-04	-4.67e-03	-0.17	2.31e-04	-2.19e-05	0.0
2	2	1.84e-03	0.02	-0.24	-1.16e-03	8.96e-05	2.03e-06
2	5	0.05	0.02	-0.16	-7.22e-04	1.34e-04	-1.07e-05
2	32	-0.01	-0.04	-0.18	-6.17e-04	3.36e-05	-1.81e-05
2	33	9.20e-03	0.07	-0.16	-8.20e-04	7.64e-05	1.37e-05
2	37	0.08	0.02	-0.16	-7.25e-04	1.79e-04	-1.66e-05
2	63	-0.03	0.11	-0.16	-8.89e-04	2.47e-05	5.18e-05
2	64	-0.02	-0.07	-0.19	-5.58e-04	1.93e-05	-2.92e-05
2	70	1.39e-03	0.02	-0.18	-8.65e-04	6.76e-05	1.51e-06
2	72	1.21e-03	0.02	-0.18	-7.48e-04	6.00e-05	1.22e-06
3	1	-5.83e-04	5.85e-03	-0.22	-2.90e-04	-2.91e-05	0.0
3	2	-4.67e-04	7.01e-03	-0.24	-3.48e-04	-2.31e-05	0.0
3	15	-4.20e-03	4.11e-03	-0.18	-2.41e-04	-5.85e-05	3.27e-06
3	31	-6.64e-04	9.12e-03	-0.18	-2.73e-04	-3.28e-05	-1.02e-06
3	35	-9.27e-04	8.50e-03	-0.18	-2.74e-04	-3.55e-05	0.0
3	47	-6.42e-03	3.89e-03	-0.18	-2.52e-04	-7.98e-05	4.88e-06
3	63	-7.94e-04	0.01	-0.19	-3.03e-04	-3.90e-05	-1.93e-06
3	67	-1.22e-03	0.01	-0.19	-3.04e-04	-4.34e-05	-1.54e-06
3	69	-4.43e-04	4.49e-03	-0.17	-2.23e-04	-2.21e-05	0.0
3	70	-3.66e-04	5.26e-03	-0.18	-2.61e-04	-1.81e-05	0.0
3	71	-4.43e-04	4.49e-03	-0.17	-2.23e-04	-2.21e-05	0.0
3	72	-4.28e-04	4.65e-03	-0.17	-2.30e-04	-2.13e-05	0.0
4	2	1.84e-03	-0.02	-0.24	1.16e-03	8.94e-05	-1.66e-06
4	17	0.05	8.63e-03	-0.17	6.75e-04	1.33e-04	2.91e-05
4	35	-0.01	0.04	-0.18	6.18e-04	3.34e-05	1.85e-05
4	36	-0.02	-0.07	-0.17	8.26e-04	3.72e-05	-3.37e-05
4	49	0.08	0.02	-0.17	6.50e-04	1.77e-04	4.53e-05
4	67	-0.02	0.07	-0.19	5.58e-04	1.90e-05	2.96e-05
4	68	-0.03	-0.11	-0.16	8.90e-04	2.49e-05	-5.18e-05
4	70	1.39e-03	-0.02	-0.18	8.66e-04	6.74e-05	-1.23e-06
4	72	1.21e-03	-0.02	-0.18	7.48e-04	5.98e-05	0.0
5	1	-1.36e-04	-0.03	-0.23	1.50e-03	-5.11e-06	0.0
5	2	4.18e-05	-0.04	-0.25	1.94e-03	2.43e-06	0.0
5	20	-0.05	-0.05	-0.18	1.20e-03	-3.91e-05	1.29e-05

5	35	-0.01	0.05	-0.19	1.02e-03	-1.57e-05	1.76e-05
5	36	-0.02	-0.10	-0.17	1.28e-03	-1.33e-05	-8.13e-06
5	52	-0.08	-0.06	-0.18	1.22e-03	-5.99e-05	2.11e-05
5	67	-0.02	0.09	-0.19	9.49e-04	-2.27e-05	2.68e-05
5	68	-0.03	-0.14	-0.17	1.36e-03	-1.89e-05	-1.13e-05
5	69	-1.01e-04	-0.02	-0.18	1.15e-03	-3.79e-06	0.0
5	70	1.74e-05	-0.03	-0.19	1.45e-03	1.23e-06	0.0
5	71	-1.01e-04	-0.02	-0.18	1.15e-03	-3.79e-06	0.0
5	72	-7.74e-05	-0.03	-0.18	1.21e-03	-2.79e-06	0.0
6	2	2.62e-04	-7.83e-03	-0.25	3.92e-04	1.47e-05	2.29e-06
6	10	3.49e-03	-6.48e-03	-0.17	2.57e-04	2.45e-05	3.83e-06
6	32	-2.78e-04	-8.37e-03	-0.18	2.93e-04	-1.48e-06	3.42e-06
6	36	-4.29e-05	-8.68e-03	-0.18	2.93e-04	0.0	4.37e-06
6	42	5.49e-03	-7.41e-03	-0.18	2.65e-04	3.53e-05	5.31e-06
6	64	-5.05e-04	-0.01	-0.19	3.22e-04	-5.86e-06	4.66e-06
6	68	-1.29e-04	-0.01	-0.19	3.22e-04	-3.27e-06	6.17e-06
6	70	1.91e-04	-5.86e-03	-0.19	2.94e-04	1.07e-05	1.70e-06
6	72	1.21e-04	-5.09e-03	-0.18	2.55e-04	7.03e-06	1.39e-06
7	2	1.55e-03	-1.30e-04	-0.51	0.0	8.95e-05	0.0
7	17	0.06	0.02	-0.33	1.02e-05	1.43e-04	-4.45e-05
7	20	-0.05	-0.02	-0.35	-1.00e-05	-2.70e-05	4.44e-05
7	36	-0.02	-0.06	-0.34	-1.23e-05	3.23e-05	3.37e-05
7	49	0.09	0.04	-0.33	1.59e-05	1.93e-04	-7.04e-05
7	52	-0.09	-0.04	-0.35	-1.57e-05	-7.69e-05	7.03e-05
7	68	-0.03	-0.09	-0.35	-1.88e-05	1.73e-05	5.35e-05
7	70	1.17e-03	-9.73e-05	-0.39	0.0	6.75e-05	0.0
7	72	1.04e-03	-8.44e-05	-0.35	0.0	5.99e-05	0.0
8	1	-1.39e-04	0.03	-0.23	-1.50e-03	-5.15e-06	0.0
8	2	3.53e-05	0.04	-0.25	-1.94e-03	2.36e-06	0.0
8	11	-0.05	0.05	-0.18	-1.20e-03	-3.93e-05	-1.28e-05
8	32	-0.01	-0.05	-0.19	-1.02e-03	-1.59e-05	-1.76e-05
8	33	7.78e-03	0.10	-0.17	-1.28e-03	4.93e-06	1.63e-05
8	43	-0.08	0.06	-0.18	-1.22e-03	-6.02e-05	-2.11e-05
8	64	-0.02	-0.09	-0.19	-9.48e-04	-2.30e-05	-2.69e-05
8	65	0.01	0.14	-0.17	-1.36e-03	9.99e-06	2.41e-05
8	69	-1.04e-04	0.02	-0.18	-1.15e-03	-3.83e-06	0.0
8	70	1.27e-05	0.03	-0.19	-1.45e-03	1.18e-06	0.0
8	71	-1.04e-04	0.02	-0.18	-1.15e-03	-3.83e-06	0.0
8	72	-8.04e-05	0.03	-0.18	-1.21e-03	-2.83e-06	0.0
9	2	2.50e-04	7.86e-03	-0.25	-3.92e-04	1.44e-05	-2.28e-06
9	17	3.47e-03	6.50e-03	-0.17	-2.57e-04	2.35e-05	-4.17e-06
9	31	-3.78e-05	8.70e-03	-0.18	-2.93e-04	0.0	-3.44e-06
9	35	-2.74e-04	8.39e-03	-0.18	-2.93e-04	-1.25e-06	-3.20e-06
9	49	5.46e-03	7.43e-03	-0.18	-2.65e-04	3.38e-05	-5.85e-06
9	63	-1.16e-04	0.01	-0.19	-3.21e-04	-2.92e-06	-4.70e-06
9	67	-4.94e-04	0.01	-0.19	-3.22e-04	-5.39e-06	-4.32e-06
9	70	1.82e-04	5.88e-03	-0.19	-2.94e-04	1.05e-05	-1.69e-06
9	72	1.14e-04	5.10e-03	-0.18	-2.55e-04	6.81e-06	-1.38e-06
10	2	-1.00e-04	-0.04	-0.25	1.84e-03	0.0	0.0
10	20	-0.05	-0.04	-0.18	1.13e-03	-3.28e-05	2.38e-05
10	27	-0.02	0.04	-0.19	9.83e-04	-7.88e-06	4.58e-05
10	28	-0.01	-0.08	-0.17	1.21e-03	-1.25e-05	-3.97e-05
10	52	-0.08	-0.05	-0.17	1.15e-03	-5.20e-05	3.75e-05
10	59	-0.03	0.08	-0.19	9.17e-04	-1.24e-05	7.26e-05
10	60	-0.02	-0.12	-0.17	1.27e-03	-1.97e-05	-6.29e-05
10	70	-7.54e-05	-0.03	-0.19	1.37e-03	0.0	0.0
10	72	-6.69e-05	-0.02	-0.18	1.15e-03	0.0	0.0
11	2	-4.13e-05	-7.82e-03	-0.25	3.91e-04	0.0	3.34e-06
11	11	-3.26e-03	-3.99e-03	-0.17	2.31e-04	-1.11e-05	0.0
11	24	-1.49e-03	-7.83e-03	-0.18	2.86e-04	0.0	2.66e-06
11	26	1.21e-04	-7.83e-03	-0.18	2.86e-04	5.11e-06	2.72e-06
11	43	-5.17e-03	-3.47e-03	-0.17	2.24e-04	-1.73e-05	-2.07e-06
11	56	-2.36e-03	-9.57e-03	-0.18	3.11e-04	0.0	3.09e-06
11	58	2.08e-04	-9.57e-03	-0.18	3.11e-04	8.43e-06	3.19e-06
11	70	-3.10e-05	-5.85e-03	-0.19	2.92e-04	0.0	2.48e-06
11	72	-2.70e-05	-5.07e-03	-0.18	2.53e-04	0.0	2.02e-06
12	2	-1.04e-04	0.04	-0.25	-1.84e-03	0.0	0.0
12	11	-0.05	0.04	-0.18	-1.13e-03	-3.29e-05	-2.36e-05
12	24	-0.02	-0.04	-0.19	-9.83e-04	-7.87e-06	-4.58e-05
12	25	0.01	0.08	-0.17	-1.21e-03	4.29e-06	3.87e-05
12	43	-0.08	0.05	-0.17	-1.15e-03	-5.22e-05	-3.73e-05
12	56	-0.03	-0.08	-0.19	-9.17e-04	-1.24e-05	-7.26e-05
12	57	0.02	0.12	-0.17	-1.27e-03	6.92e-06	6.14e-05
12	70	-7.83e-05	0.03	-0.19	-1.37e-03	0.0	0.0
12	72	-6.85e-05	0.02	-0.18	-1.15e-03	0.0	0.0
13	2	-4.11e-05	7.83e-03	-0.25	-3.90e-04	0.0	-2.93e-06

13	20	-3.25e-03	3.99e-03	-0.17	-2.30e-04	-1.04e-05	1.14e-06
13	25	3.46e-04	7.84e-03	-0.18	-2.85e-04	6.14e-06	-3.57e-06
13	27	-1.49e-03	7.84e-03	-0.18	-2.85e-04	0.0	-2.37e-06
13	52	-5.15e-03	3.47e-03	-0.17	-2.23e-04	-1.61e-05	2.79e-06
13	57	5.67e-04	9.59e-03	-0.18	-3.10e-04	1.01e-05	-4.67e-06
13	59	-2.34e-03	9.58e-03	-0.18	-3.10e-04	0.0	-2.76e-06
13	70	-3.10e-05	5.86e-03	-0.19	-2.92e-04	0.0	-2.18e-06
13	72	-2.74e-05	5.08e-03	-0.18	-2.53e-04	0.0	-1.78e-06
14	2	-2.22e-04	-0.04	-0.25	1.94e-03	-2.17e-06	0.0
14	4	-2.27e-04	-0.03	-0.20	1.59e-03	-3.70e-06	0.0
14	20	-0.05	-0.03	-0.18	1.17e-03	-3.12e-05	3.20e-05
14	25	0.01	0.05	-0.19	1.02e-03	1.59e-05	-1.77e-05
14	26	0.02	-0.10	-0.17	1.28e-03	1.34e-05	7.83e-06
14	52	-0.08	-0.04	-0.18	1.18e-03	-5.20e-05	5.05e-05
14	57	0.02	0.09	-0.19	9.48e-04	2.30e-05	-2.69e-05
14	58	0.03	-0.14	-0.17	1.36e-03	1.90e-05	1.09e-05
14	70	-1.54e-04	-0.03	-0.19	1.44e-03	-1.04e-06	0.0
14	72	-4.46e-05	-0.03	-0.18	1.21e-03	2.94e-06	0.0
15	2	-3.13e-04	-7.64e-03	-0.25	3.87e-04	-1.62e-05	0.0
15	8	-3.52e-03	-6.35e-03	-0.17	2.53e-04	-2.50e-05	-2.16e-06
15	22	2.57e-04	-8.21e-03	-0.18	2.88e-04	0.0	-1.75e-06
15	26	2.22e-05	-8.52e-03	-0.18	2.88e-04	-1.12e-06	-2.65e-06
15	40	-5.52e-03	-7.27e-03	-0.18	2.60e-04	-3.56e-05	-3.36e-06
15	54	4.90e-04	-0.01	-0.19	3.15e-04	4.73e-06	-2.72e-06
15	58	1.14e-04	-0.01	-0.19	3.15e-04	2.22e-06	-4.14e-06
15	70	-2.28e-04	-5.72e-03	-0.19	2.90e-04	-1.18e-05	0.0
15	72	-1.53e-04	-4.97e-03	-0.18	2.51e-04	-7.96e-06	0.0
16	2	-2.27e-04	0.04	-0.25	-1.94e-03	-2.12e-06	0.0
16	4	-2.30e-04	0.03	-0.20	-1.59e-03	-3.66e-06	0.0
16	11	-0.05	0.03	-0.18	-1.17e-03	-3.13e-05	-3.22e-05
16	22	0.01	-0.05	-0.19	-1.02e-03	1.61e-05	1.75e-05
16	27	-7.95e-03	0.10	-0.17	-1.28e-03	-4.84e-06	-1.62e-05
16	43	-0.08	0.04	-0.18	-1.18e-03	-5.22e-05	-5.06e-05
16	54	0.02	-0.09	-0.19	-9.47e-04	2.31e-05	2.67e-05
16	59	-0.01	0.14	-0.17	-1.36e-03	-9.92e-06	-2.40e-05
16	70	-1.57e-04	0.03	-0.19	-1.44e-03	-1.01e-06	0.0
16	72	-4.60e-05	0.02	-0.18	-1.21e-03	2.96e-06	0.0
17	2	-2.98e-04	7.63e-03	-0.25	-3.86e-04	-1.59e-05	0.0
17	20	-3.49e-03	4.61e-03	-0.17	-2.30e-04	-2.35e-05	2.56e-06
17	21	2.23e-05	8.51e-03	-0.18	-2.87e-04	-1.26e-06	2.71e-06
17	25	2.58e-04	8.19e-03	-0.18	-2.87e-04	0.0	1.77e-06
17	52	-5.48e-03	4.51e-03	-0.17	-2.23e-04	-3.34e-05	3.92e-06
17	53	1.09e-04	0.01	-0.19	-3.14e-04	1.93e-06	4.16e-06
17	57	4.86e-04	0.01	-0.19	-3.14e-04	4.32e-06	2.67e-06
17	70	-2.17e-04	5.71e-03	-0.19	-2.89e-04	-1.16e-05	0.0
17	72	-1.44e-04	4.96e-03	-0.18	-2.51e-04	-7.76e-06	0.0
18	2	-2.01e-03	-0.02	-0.24	1.16e-03	-8.86e-05	1.86e-06
18	20	-0.05	-0.02	-0.16	7.21e-04	-1.33e-04	-1.11e-05
18	25	0.01	0.04	-0.18	6.18e-04	-3.32e-05	-1.82e-05
18	26	0.02	-0.07	-0.17	8.26e-04	-3.66e-05	3.36e-05
18	52	-0.08	-0.02	-0.16	7.23e-04	-1.78e-04	-1.72e-05
18	57	0.02	0.07	-0.19	5.58e-04	-1.89e-05	-2.92e-05
18	58	0.03	-0.11	-0.16	8.89e-04	-2.42e-05	5.18e-05
18	70	-1.52e-03	-0.02	-0.18	8.65e-04	-6.69e-05	1.38e-06
18	72	-1.32e-03	-0.02	-0.18	7.48e-04	-5.94e-05	1.11e-06
19	1	6.03e-04	-5.85e-03	-0.22	2.91e-04	2.93e-05	-1.46e-06
19	2	4.91e-04	-7.02e-03	-0.24	3.49e-04	2.33e-05	-1.73e-06
19	10	4.24e-03	-4.09e-03	-0.18	2.42e-04	5.94e-05	1.07e-06
19	22	9.66e-04	-8.47e-03	-0.18	2.74e-04	3.58e-05	-3.11e-06
19	26	7.03e-04	-9.10e-03	-0.18	2.74e-04	3.30e-05	-4.09e-06
19	42	6.48e-03	-3.87e-03	-0.18	2.53e-04	8.12e-05	2.34e-06
19	54	1.27e-03	-0.01	-0.19	3.04e-04	4.37e-05	-4.29e-06
19	58	8.47e-04	-0.01	-0.19	3.04e-04	3.92e-05	-5.82e-06
19	69	4.59e-04	-4.49e-03	-0.17	2.24e-04	2.23e-05	-1.12e-06
19	70	3.84e-04	-5.27e-03	-0.18	2.62e-04	1.83e-05	-1.30e-06
19	71	4.59e-04	-4.49e-03	-0.17	2.24e-04	2.23e-05	-1.12e-06
19	72	4.44e-04	-4.65e-03	-0.17	2.31e-04	2.15e-05	-1.16e-06
20	2	-2.03e-03	0.02	-0.24	-1.15e-03	-8.90e-05	-2.22e-06
20	11	-0.05	0.02	-0.16	-7.21e-04	-1.34e-04	1.08e-05
20	22	0.01	-0.04	-0.18	-6.18e-04	-3.33e-05	1.80e-05
20	27	-9.37e-03	0.07	-0.16	-8.19e-04	-7.60e-05	-1.38e-05
20	43	-0.08	0.02	-0.16	-7.24e-04	-1.79e-04	1.68e-05
20	54	0.02	-0.07	-0.19	-5.58e-04	-1.90e-05	2.90e-05
20	59	-0.01	0.11	-0.16	-8.79e-04	-8.67e-05	-2.06e-05
20	70	-1.52e-03	0.02	-0.18	-8.65e-04	-6.71e-05	-1.65e-06
20	72	-1.33e-03	0.02	-0.18	-7.47e-04	-5.96e-05	-1.34e-06

21	1	5.79e-04	5.81e-03	-0.22	-2.89e-04	2.85e-05	0.0
21	2	4.64e-04	6.96e-03	-0.24	-3.47e-04	2.23e-05	0.0
21	17	4.20e-03	4.06e-03	-0.18	-2.40e-04	5.77e-05	-2.19e-06
21	21	6.71e-04	9.05e-03	-0.18	-2.72e-04	3.20e-05	3.07e-06
21	25	9.34e-04	8.42e-03	-0.18	-2.72e-04	3.47e-05	2.05e-06
21	49	6.41e-03	3.83e-03	-0.18	-2.50e-04	7.88e-05	-3.67e-06
21	53	8.07e-04	0.01	-0.19	-3.01e-04	3.80e-05	4.66e-06
21	57	1.23e-03	0.01	-0.19	-3.02e-04	4.24e-05	3.05e-06
21	69	4.40e-04	4.46e-03	-0.17	-2.22e-04	2.16e-05	0.0
21	70	3.63e-04	5.23e-03	-0.18	-2.61e-04	1.76e-05	0.0
21	71	4.40e-04	4.46e-03	-0.17	-2.22e-04	2.16e-05	0.0
21	72	4.25e-04	4.61e-03	-0.17	-2.30e-04	2.08e-05	0.0
22	1	6.38e-04	-5.85e-03	-0.21	2.90e-04	2.85e-05	0.0
22	2	5.32e-04	-6.98e-03	-0.23	3.47e-04	2.20e-05	0.0
22	10	4.20e-03	-4.11e-03	-0.17	2.42e-04	5.46e-05	0.0
22	22	1.05e-03	-8.35e-03	-0.17	2.67e-04	3.37e-05	0.0
22	26	8.07e-04	-8.97e-03	-0.17	2.66e-04	3.13e-05	0.0
22	42	6.40e-03	-3.90e-03	-0.18	2.53e-04	7.40e-05	0.0
22	54	1.38e-03	-0.01	-0.18	2.93e-04	4.08e-05	0.0
22	58	9.97e-04	-0.01	-0.18	2.91e-04	3.70e-05	0.0
22	69	4.86e-04	-4.49e-03	-0.16	2.23e-04	2.16e-05	0.0
22	70	4.15e-04	-5.25e-03	-0.17	2.60e-04	1.73e-05	0.0
22	71	4.86e-04	-4.49e-03	-0.16	2.23e-04	2.16e-05	0.0
22	72	4.71e-04	-4.64e-03	-0.17	2.30e-04	2.07e-05	0.0
23	1	5.31e-04	-5.66e-03	-0.21	2.80e-04	2.57e-05	0.0
23	2	3.89e-04	-6.77e-03	-0.23	3.35e-04	1.80e-05	0.0
23	10	3.96e-03	-3.99e-03	-0.17	2.30e-04	4.59e-05	0.0
23	22	8.80e-04	-8.14e-03	-0.17	2.56e-04	2.85e-05	0.0
23	26	6.52e-04	-8.71e-03	-0.17	2.56e-04	2.67e-05	0.0
23	42	6.06e-03	-3.79e-03	-0.17	2.38e-04	6.14e-05	0.0
23	54	1.16e-03	-0.01	-0.18	2.81e-04	3.37e-05	0.0
23	58	7.99e-04	-0.01	-0.18	2.80e-04	3.09e-05	0.0
23	69	4.03e-04	-4.34e-03	-0.16	2.15e-04	1.95e-05	0.0
23	70	3.08e-04	-5.09e-03	-0.17	2.51e-04	1.43e-05	0.0
23	71	4.03e-04	-4.34e-03	-0.16	2.15e-04	1.95e-05	0.0
23	72	3.84e-04	-4.49e-03	-0.16	2.22e-04	1.84e-05	0.0
24	1	6.64e-04	-5.76e-03	-0.22	2.84e-04	3.24e-05	0.0
24	2	5.40e-04	-6.90e-03	-0.24	3.41e-04	2.56e-05	0.0
24	10	4.12e-03	-4.10e-03	-0.18	2.35e-04	5.15e-05	0.0
24	22	9.82e-04	-8.28e-03	-0.18	2.63e-04	3.62e-05	0.0
24	26	7.36e-04	-8.85e-03	-0.18	2.62e-04	3.45e-05	0.0
24	42	6.25e-03	-3.93e-03	-0.18	2.44e-04	6.72e-05	0.0
24	54	1.27e-03	-0.01	-0.18	2.89e-04	4.30e-05	0.0
24	58	8.72e-04	-0.01	-0.18	2.88e-04	4.02e-05	0.0
24	69	5.05e-04	-4.42e-03	-0.17	2.18e-04	2.46e-05	0.0
24	70	4.23e-04	-5.18e-03	-0.18	2.56e-04	2.01e-05	0.0
24	71	5.05e-04	-4.42e-03	-0.17	2.18e-04	2.46e-05	0.0
24	72	4.88e-04	-4.57e-03	-0.17	2.26e-04	2.37e-05	0.0
25	1	3.09e-04	-5.40e-03	-0.21	2.68e-04	1.42e-05	0.0
25	2	1.27e-04	-6.48e-03	-0.22	3.22e-04	4.40e-06	0.0
25	10	3.66e-03	-3.88e-03	-0.17	2.20e-04	3.11e-05	0.0
25	22	6.97e-04	-7.79e-03	-0.17	2.44e-04	1.88e-05	0.0
25	26	4.82e-04	-8.31e-03	-0.17	2.43e-04	1.76e-05	0.0
25	42	5.68e-03	-3.73e-03	-0.17	2.28e-04	4.32e-05	0.0
25	54	9.74e-04	-9.94e-03	-0.17	2.66e-04	2.35e-05	0.0
25	58	6.29e-04	-0.01	-0.17	2.65e-04	2.16e-05	0.0
25	69	2.32e-04	-4.14e-03	-0.16	2.06e-04	1.06e-05	0.0
25	70	1.11e-04	-4.87e-03	-0.17	2.42e-04	4.10e-06	0.0
25	71	2.32e-04	-4.14e-03	-0.16	2.06e-04	1.06e-05	0.0
25	72	2.08e-04	-4.29e-03	-0.16	2.13e-04	9.31e-06	0.0
26	1	3.68e-04	-5.50e-03	-0.22	2.73e-04	1.74e-05	0.0
26	2	1.88e-04	-6.61e-03	-0.23	3.28e-04	7.72e-06	0.0
26	10	3.79e-03	-3.96e-03	-0.17	2.24e-04	3.49e-05	0.0
26	22	7.24e-04	-7.90e-03	-0.18	2.50e-04	2.30e-05	0.0
26	26	4.86e-04	-8.43e-03	-0.18	2.49e-04	2.17e-05	0.0
26	42	5.86e-03	-3.81e-03	-0.18	2.32e-04	4.76e-05	0.0
26	54	9.89e-04	-0.01	-0.18	2.73e-04	2.87e-05	0.0
26	58	6.09e-04	-0.01	-0.18	2.72e-04	2.66e-05	0.0
26	69	2.78e-04	-4.22e-03	-0.17	2.10e-04	1.31e-05	0.0
26	70	1.58e-04	-4.96e-03	-0.18	2.47e-04	6.66e-06	0.0
26	71	2.78e-04	-4.22e-03	-0.17	2.10e-04	1.31e-05	0.0
26	72	2.54e-04	-4.37e-03	-0.17	2.17e-04	1.18e-05	0.0
27	2	-3.06e-04	-6.43e-03	-0.22	3.20e-04	-1.74e-05	0.0
27	11	-3.40e-03	-4.28e-03	-0.16	1.91e-04	-2.05e-05	0.0
27	22	3.83e-04	-7.64e-03	-0.17	2.40e-04	3.03e-06	0.0
27	26	1.75e-04	-8.12e-03	-0.17	2.40e-04	2.13e-06	0.0

27	43	-5.37e-03	-4.38e-03	-0.15	1.84e-04	-3.02e-05	0.0
27	54	6.44e-04	-9.73e-03	-0.17	2.62e-04	6.87e-06	0.0
27	58	3.10e-04	-0.01	-0.17	2.61e-04	5.43e-06	0.0
27	70	-2.16e-04	-4.82e-03	-0.17	2.40e-04	-1.24e-05	0.0
27	72	-8.70e-05	-4.24e-03	-0.16	2.11e-04	-5.53e-06	0.0
28	2	-3.35e-04	-6.57e-03	-0.23	3.27e-04	-1.89e-05	0.0
28	11	-3.47e-03	-4.36e-03	-0.16	1.95e-04	-2.15e-05	0.0
28	22	3.42e-04	-7.75e-03	-0.18	2.46e-04	3.47e-06	0.0
28	26	1.14e-04	-8.23e-03	-0.18	2.45e-04	2.54e-06	0.0
28	43	-5.48e-03	-4.46e-03	-0.16	1.88e-04	-3.16e-05	0.0
28	54	5.85e-04	-9.86e-03	-0.18	2.68e-04	7.81e-06	0.0
28	58	2.18e-04	-0.01	-0.18	2.67e-04	6.34e-06	0.0
28	70	-2.36e-04	-4.93e-03	-0.18	2.45e-04	-1.34e-05	0.0
28	72	-9.84e-05	-4.33e-03	-0.17	2.15e-04	-6.11e-06	0.0
29	2	-7.26e-04	-6.57e-03	-0.23	3.27e-04	-3.87e-05	0.0
29	11	-3.61e-03	-4.27e-03	-0.16	1.95e-04	-3.03e-05	0.0
29	22	7.78e-05	-7.64e-03	-0.17	2.43e-04	-1.24e-05	0.0
29	26	-1.27e-04	-8.07e-03	-0.17	2.43e-04	-1.31e-05	0.0
29	43	-5.55e-03	-4.32e-03	-0.16	1.88e-04	-3.74e-05	0.0
29	54	3.25e-04	-9.69e-03	-0.17	2.64e-04	-9.26e-06	0.0
29	58	-2.62e-06	-0.01	-0.17	2.63e-04	-1.04e-05	0.0
29	70	-5.32e-04	-4.93e-03	-0.17	2.45e-04	-2.84e-05	0.0
29	72	-3.76e-04	-4.32e-03	-0.16	2.15e-04	-2.02e-05	0.0
30	2	-8.43e-04	-6.71e-03	-0.24	3.34e-04	-4.49e-05	0.0
30	8	-3.74e-03	-6.03e-03	-0.17	2.17e-04	-3.44e-05	0.0
30	22	-3.73e-05	-7.75e-03	-0.18	2.49e-04	-1.57e-05	0.0
30	26	-2.62e-04	-8.19e-03	-0.18	2.48e-04	-1.64e-05	0.0
30	40	-5.71e-03	-7.07e-03	-0.17	2.20e-04	-4.19e-05	0.0
30	54	1.81e-04	-9.82e-03	-0.18	2.71e-04	-1.26e-05	0.0
30	58	-1.79e-04	-0.01	-0.18	2.70e-04	-1.38e-05	0.0
30	70	-6.19e-04	-5.03e-03	-0.18	2.50e-04	-3.30e-05	0.0
30	72	-4.46e-04	-4.41e-03	-0.17	2.19e-04	-2.39e-05	0.0
31	2	-9.52e-04	-6.91e-03	-0.23	3.42e-04	-5.06e-05	0.0
31	8	-3.74e-03	-6.04e-03	-0.16	2.21e-04	-3.74e-05	0.0
31	22	-9.70e-05	-7.78e-03	-0.17	2.52e-04	-2.15e-05	0.0
31	26	-3.00e-04	-8.17e-03	-0.17	2.52e-04	-2.22e-05	0.0
31	40	-5.66e-03	-7.02e-03	-0.16	2.25e-04	-4.38e-05	0.0
31	54	1.44e-04	-9.79e-03	-0.17	2.73e-04	-1.88e-05	0.0
31	58	-1.82e-04	-0.01	-0.17	2.73e-04	-1.99e-05	0.0
31	70	-7.04e-04	-5.18e-03	-0.17	2.56e-04	-3.74e-05	0.0
31	72	-5.42e-04	-4.52e-03	-0.17	2.24e-04	-2.89e-05	0.0
32	2	-1.13e-03	-7.03e-03	-0.24	3.48e-04	-6.03e-05	0.0
32	8	-3.92e-03	-6.13e-03	-0.17	2.26e-04	-4.37e-05	0.0
32	22	-2.60e-04	-7.89e-03	-0.18	2.58e-04	-2.72e-05	0.0
32	26	-4.84e-04	-8.28e-03	-0.18	2.57e-04	-2.79e-05	0.0
32	40	-5.88e-03	-7.12e-03	-0.17	2.30e-04	-5.05e-05	0.0
32	54	-5.18e-05	-9.93e-03	-0.18	2.80e-04	-2.46e-05	0.0
32	58	-4.11e-04	-0.01	-0.18	2.79e-04	-2.57e-05	0.0
32	70	-8.40e-04	-5.27e-03	-0.18	2.61e-04	-4.46e-05	0.0
32	72	-6.55e-04	-4.60e-03	-0.17	2.28e-04	-3.48e-05	0.0
33	2	-6.40e-04	-7.62e-03	-0.23	3.71e-04	-3.82e-05	0.0
33	11	-3.59e-03	-4.68e-03	-0.16	2.22e-04	-3.29e-05	0.0
33	22	1.07e-04	-8.20e-03	-0.17	2.72e-04	-1.41e-05	0.0
33	26	-9.94e-05	-8.55e-03	-0.17	2.72e-04	-1.50e-05	0.0
33	43	-5.52e-03	-4.62e-03	-0.16	2.15e-04	-4.02e-05	0.0
33	54	3.71e-04	-0.01	-0.18	2.95e-04	-1.07e-05	0.0
33	58	4.03e-05	-0.01	-0.18	2.95e-04	-1.20e-05	0.0
33	70	-4.74e-04	-5.71e-03	-0.18	2.78e-04	-2.83e-05	0.0
33	72	-3.64e-04	-4.97e-03	-0.17	2.42e-04	-2.19e-05	0.0
34	2	-1.01e-03	-7.61e-03	-0.24	3.73e-04	-5.37e-05	0.0
34	8	-3.86e-03	-6.41e-03	-0.17	2.43e-04	-4.10e-05	0.0
34	22	-2.06e-04	-8.23e-03	-0.18	2.75e-04	-2.43e-05	0.0
34	26	-4.31e-04	-8.58e-03	-0.18	2.74e-04	-2.51e-05	0.0
34	40	-5.82e-03	-7.37e-03	-0.17	2.48e-04	-4.78e-05	0.0
34	54	3.40e-06	-0.01	-0.18	2.99e-04	-2.16e-05	0.0
34	58	-3.58e-04	-0.01	-0.18	2.98e-04	-2.29e-05	0.0
34	70	-7.52e-04	-5.70e-03	-0.18	2.79e-04	-3.99e-05	0.0
34	72	-5.96e-04	-4.95e-03	-0.17	2.43e-04	-3.16e-05	0.0
35	2	-3.06e-04	-7.56e-03	-0.23	3.76e-04	-1.61e-05	0.0
35	8	-3.45e-03	-6.27e-03	-0.17	2.45e-04	-2.02e-05	0.0
35	22	3.10e-04	-8.04e-03	-0.17	2.74e-04	0.0	0.0
35	26	9.55e-05	-8.35e-03	-0.17	2.74e-04	-1.64e-06	0.0
35	40	-5.41e-03	-7.16e-03	-0.17	2.50e-04	-2.82e-05	0.0
35	54	5.72e-04	-9.99e-03	-0.18	2.96e-04	3.11e-06	0.0
35	58	2.28e-04	-0.01	-0.18	2.96e-04	1.29e-06	0.0
35	70	-2.24e-04	-5.66e-03	-0.18	2.82e-04	-1.18e-05	0.0

35	72	-1.48e-04	-4.94e-03	-0.17	2.45e-04	-7.80e-06	0.0
36	2	2.19e-04	7.86e-03	-0.24	-3.85e-04	1.22e-05	0.0
36	17	3.31e-03	5.82e-03	-0.17	-2.52e-04	1.43e-05	0.0
36	33	1.61e-03	7.87e-03	-0.18	-2.80e-04	7.10e-06	0.0
36	35	-1.91e-04	7.85e-03	-0.18	-2.80e-04	2.61e-06	0.0
36	49	5.19e-03	6.36e-03	-0.18	-2.59e-04	1.82e-05	0.0
36	65	2.48e-03	9.62e-03	-0.18	-3.03e-04	6.75e-06	0.0
36	67	-3.87e-04	9.59e-03	-0.18	-3.03e-04	0.0	0.0
36	70	1.65e-04	5.88e-03	-0.19	-2.88e-04	9.18e-06	0.0
36	72	1.44e-04	5.10e-03	-0.18	-2.50e-04	8.00e-06	0.0
37	2	6.04e-04	7.33e-03	-0.24	-3.62e-04	3.12e-05	0.0
37	17	3.45e-03	5.54e-03	-0.17	-2.35e-04	2.11e-05	0.0
37	31	2.99e-04	7.51e-03	-0.18	-2.60e-04	2.23e-05	0.0
37	35	8.60e-05	7.46e-03	-0.18	-2.60e-04	2.20e-05	0.0
37	49	5.26e-03	6.09e-03	-0.17	-2.40e-04	2.19e-05	0.0
37	63	2.53e-04	9.24e-03	-0.18	-2.79e-04	2.40e-05	0.0
37	67	-8.76e-05	9.16e-03	-0.18	-2.79e-04	2.35e-05	0.0
37	70	4.53e-04	5.49e-03	-0.18	-2.71e-04	2.34e-05	0.0
37	72	3.93e-04	4.77e-03	-0.17	-2.36e-04	2.03e-05	0.0
38	1	2.30e-04	-6.23e-03	-0.21	3.04e-04	1.42e-05	0.0
38	2	1.84e-04	-7.62e-03	-0.23	3.72e-04	1.26e-05	0.0
38	5	3.33e-03	-3.31e-03	-0.16	2.21e-04	1.70e-05	0.0
38	22	5.44e-04	-8.03e-03	-0.17	2.70e-04	1.48e-05	0.0
38	24	-1.26e-03	-8.30e-03	-0.17	2.71e-04	1.07e-05	0.0
38	37	5.20e-03	-2.44e-03	-0.16	2.15e-04	2.07e-05	0.0
38	54	7.64e-04	-9.95e-03	-0.18	2.91e-04	1.71e-05	0.0
38	56	-2.10e-03	-0.01	-0.18	2.92e-04	1.06e-05	0.0
38	69	1.74e-04	-4.78e-03	-0.16	2.34e-04	1.08e-05	0.0
38	70	1.44e-04	-5.70e-03	-0.18	2.79e-04	9.73e-06	0.0
38	71	1.74e-04	-4.78e-03	-0.16	2.34e-04	1.08e-05	0.0
38	72	1.68e-04	-4.96e-03	-0.17	2.43e-04	1.06e-05	0.0
39	2	4.45e-04	-7.59e-03	-0.24	3.73e-04	2.32e-05	0.0
39	10	3.52e-03	-5.01e-03	-0.17	2.44e-04	2.23e-05	0.0
39	22	7.03e-04	-8.06e-03	-0.18	2.73e-04	2.33e-05	0.0
39	26	4.85e-04	-8.33e-03	-0.18	2.73e-04	2.28e-05	0.0
39	42	5.40e-03	-5.17e-03	-0.18	2.49e-04	2.52e-05	0.0
39	54	9.24e-04	-0.01	-0.18	2.96e-04	2.68e-05	0.0
39	58	5.75e-04	-0.01	-0.18	2.95e-04	2.60e-05	0.0
39	70	3.39e-04	-5.68e-03	-0.19	2.79e-04	1.77e-05	0.0
39	72	3.34e-04	-4.94e-03	-0.17	2.43e-04	1.74e-05	0.0
40	2	3.78e-04	-7.07e-03	-0.23	3.50e-04	1.97e-05	0.0
40	10	3.32e-03	-4.77e-03	-0.17	2.28e-04	1.52e-05	0.0
40	24	-1.09e-03	-7.77e-03	-0.17	2.53e-04	1.70e-05	0.0
40	26	4.60e-04	-7.77e-03	-0.17	2.53e-04	1.80e-05	0.0
40	42	5.12e-03	-4.96e-03	-0.17	2.33e-04	1.56e-05	0.0
40	56	-1.89e-03	-9.73e-03	-0.17	2.72e-04	1.85e-05	0.0
40	58	5.69e-04	-9.73e-03	-0.17	2.72e-04	2.00e-05	0.0
40	70	2.87e-04	-5.29e-03	-0.18	2.62e-04	1.49e-05	0.0
40	72	2.78e-04	-4.61e-03	-0.17	2.29e-04	1.45e-05	0.0
41	2	4.83e-04	-7.20e-03	-0.24	3.57e-04	2.54e-05	0.0
41	10	3.45e-03	-4.85e-03	-0.17	2.33e-04	1.89e-05	0.0
41	24	-1.07e-03	-7.88e-03	-0.18	2.59e-04	2.18e-05	0.0
41	26	4.86e-04	-7.88e-03	-0.18	2.59e-04	2.29e-05	0.0
41	42	5.28e-03	-5.06e-03	-0.17	2.38e-04	1.93e-05	0.0
41	56	-1.90e-03	-9.86e-03	-0.18	2.79e-04	2.41e-05	0.0
41	58	5.71e-04	-9.87e-03	-0.18	2.79e-04	2.58e-05	0.0
41	70	3.66e-04	-5.39e-03	-0.18	2.67e-04	1.92e-05	0.0
41	72	3.47e-04	-4.69e-03	-0.17	2.33e-04	1.82e-05	0.0
42	1	1.54e-04	-5.64e-03	-0.21	2.81e-04	7.95e-06	0.0
42	2	1.47e-04	-6.89e-03	-0.23	3.42e-04	7.54e-06	0.0
42	10	3.11e-03	-4.76e-03	-0.16	2.24e-04	3.75e-06	0.0
42	24	-1.23e-03	-7.52e-03	-0.17	2.47e-04	9.69e-06	0.0
42	26	2.94e-04	-7.52e-03	-0.17	2.47e-04	9.17e-06	0.0
42	42	4.88e-03	-5.02e-03	-0.17	2.29e-04	2.64e-06	0.0
42	56	-2.02e-03	-9.39e-03	-0.17	2.65e-04	1.18e-05	0.0
42	58	3.99e-04	-9.40e-03	-0.17	2.66e-04	1.10e-05	0.0
42	69	1.17e-04	-4.33e-03	-0.16	2.15e-04	6.03e-06	0.0
42	70	1.12e-04	-5.16e-03	-0.18	2.56e-04	5.76e-06	0.0
42	71	1.17e-04	-4.33e-03	-0.16	2.15e-04	6.03e-06	0.0
42	72	1.16e-04	-4.49e-03	-0.17	2.23e-04	5.98e-06	0.0
43	1	1.85e-04	-5.76e-03	-0.22	2.86e-04	9.59e-06	0.0
43	2	1.84e-04	-7.04e-03	-0.24	3.50e-04	9.51e-06	0.0
43	10	3.18e-03	-4.85e-03	-0.17	2.28e-04	4.38e-06	0.0
43	24	-1.25e-03	-7.63e-03	-0.18	2.53e-04	1.20e-05	0.0
43	26	2.69e-04	-7.64e-03	-0.18	2.53e-04	1.13e-05	0.0
43	42	4.97e-03	-5.11e-03	-0.17	2.33e-04	2.88e-06	0.0

43	56	-2.07e-03	-9.53e-03	-0.18	2.72e-04	1.47e-05	0.0
43	58	3.44e-04	-9.54e-03	-0.18	2.72e-04	1.36e-05	0.0
43	69	1.41e-04	-4.42e-03	-0.17	2.20e-04	7.29e-06	0.0
43	70	1.40e-04	-5.27e-03	-0.18	2.62e-04	7.24e-06	0.0
43	71	1.41e-04	-4.42e-03	-0.17	2.20e-04	7.29e-06	0.0
43	72	1.41e-04	-4.59e-03	-0.17	2.28e-04	7.28e-06	0.0
44	2	-1.91e-04	-6.90e-03	-0.23	3.43e-04	-9.68e-06	0.0
44	8	-3.09e-03	-5.43e-03	-0.17	2.24e-04	-2.74e-06	0.0
44	22	2.52e-04	-7.28e-03	-0.17	2.47e-04	-2.62e-06	0.0
44	26	6.47e-05	-7.41e-03	-0.17	2.47e-04	-2.53e-06	0.0
44	40	-4.84e-03	-6.07e-03	-0.17	2.28e-04	-1.29e-06	0.0
44	54	4.66e-04	-9.02e-03	-0.17	2.65e-04	0.0	0.0
44	58	1.66e-04	-9.22e-03	-0.17	2.65e-04	0.0	0.0
44	70	-1.43e-04	-5.16e-03	-0.18	2.57e-04	-7.21e-06	0.0
44	72	-1.14e-04	-4.50e-03	-0.17	2.24e-04	-5.74e-06	0.0
45	2	-2.36e-04	-7.05e-03	-0.24	3.50e-04	-1.22e-05	0.0
45	8	-3.16e-03	-5.53e-03	-0.17	2.29e-04	-3.76e-06	0.0
45	22	1.79e-04	-7.40e-03	-0.18	2.53e-04	-4.05e-06	0.0
45	26	-2.72e-05	-7.53e-03	-0.18	2.53e-04	-3.92e-06	0.0
45	40	-4.94e-03	-6.18e-03	-0.17	2.34e-04	-2.03e-06	0.0
45	54	3.66e-04	-9.16e-03	-0.18	2.72e-04	-2.38e-06	0.0
45	58	3.55e-05	-9.36e-03	-0.18	2.72e-04	-2.20e-06	0.0
45	70	-1.76e-04	-5.28e-03	-0.18	2.62e-04	-9.07e-06	0.0
45	72	-1.42e-04	-4.59e-03	-0.17	2.28e-04	-7.32e-06	0.0
46	2	-4.29e-04	-7.09e-03	-0.23	3.51e-04	-2.19e-05	0.0
46	8	-3.26e-03	-5.45e-03	-0.17	2.29e-04	-1.16e-05	0.0
46	22	9.88e-05	-7.35e-03	-0.17	2.52e-04	-1.05e-05	0.0
46	26	-9.11e-05	-7.43e-03	-0.17	2.52e-04	-1.05e-05	0.0
46	40	-5.03e-03	-6.03e-03	-0.17	2.33e-04	-1.07e-05	0.0
46	54	3.15e-04	-9.06e-03	-0.17	2.71e-04	-8.74e-06	0.0
46	58	1.14e-05	-9.18e-03	-0.17	2.71e-04	-8.80e-06	0.0
46	70	-3.22e-04	-5.31e-03	-0.18	2.63e-04	-1.64e-05	0.0
46	72	-2.77e-04	-4.62e-03	-0.17	2.29e-04	-1.41e-05	0.0
47	2	-5.36e-04	-7.23e-03	-0.24	3.58e-04	-2.80e-05	0.0
47	8	-3.39e-03	-5.54e-03	-0.17	2.33e-04	-1.54e-05	0.0
47	22	-1.59e-05	-7.46e-03	-0.18	2.58e-04	-1.44e-05	0.0
47	26	-2.26e-04	-7.54e-03	-0.18	2.58e-04	-1.44e-05	0.0
47	40	-5.19e-03	-6.14e-03	-0.17	2.38e-04	-1.46e-05	0.0
47	54	1.72e-04	-9.19e-03	-0.18	2.78e-04	-1.27e-05	0.0
47	58	-1.63e-04	-9.32e-03	-0.18	2.78e-04	-1.27e-05	0.0
47	70	-4.02e-04	-5.41e-03	-0.18	2.68e-04	-2.10e-05	0.0
47	72	-3.46e-04	-4.71e-03	-0.17	2.33e-04	-1.80e-05	0.0
48	2	-2.49e-04	-7.60e-03	-0.23	3.72e-04	-1.49e-05	0.0
48	11	-3.24e-03	-3.90e-03	-0.16	2.22e-04	-1.17e-05	0.0
48	22	2.44e-04	-7.68e-03	-0.17	2.67e-04	-4.76e-06	0.0
48	26	4.64e-05	-7.69e-03	-0.17	2.67e-04	-5.20e-06	0.0
48	43	-5.06e-03	-3.40e-03	-0.16	2.15e-04	-1.29e-05	0.0
48	54	4.85e-04	-9.40e-03	-0.17	2.87e-04	-1.95e-06	0.0
48	58	1.69e-04	-9.42e-03	-0.17	2.87e-04	-2.64e-06	0.0
48	70	-1.88e-04	-5.69e-03	-0.18	2.78e-04	-1.12e-05	0.0
48	72	-1.68e-04	-4.95e-03	-0.17	2.42e-04	-9.89e-06	0.0
49	2	-5.06e-04	-7.66e-03	-0.24	3.75e-04	-2.59e-05	0.0
49	8	-3.43e-03	-5.73e-03	-0.17	2.45e-04	-1.79e-05	0.0
49	22	1.08e-05	-7.73e-03	-0.18	2.71e-04	-1.24e-05	0.0
49	26	-2.04e-04	-7.77e-03	-0.18	2.71e-04	-1.28e-05	0.0
49	40	-5.26e-03	-6.29e-03	-0.17	2.51e-04	-1.89e-05	0.0
49	54	2.07e-04	-9.47e-03	-0.18	2.92e-04	-1.01e-05	0.0
49	58	-1.37e-04	-9.52e-03	-0.18	2.92e-04	-1.08e-05	0.0
49	70	-3.80e-04	-5.73e-03	-0.19	2.81e-04	-1.95e-05	0.0
49	72	-3.31e-04	-4.97e-03	-0.17	2.44e-04	-1.69e-05	0.0
50	2	-1.42e-04	-7.57e-03	-0.23	3.74e-04	-4.21e-06	0.0
50	8	-3.25e-03	-5.60e-03	-0.17	2.45e-04	-7.97e-06	0.0
50	24	-1.50e-03	-7.56e-03	-0.17	2.67e-04	-1.62e-06	0.0
50	40	-5.12e-03	-6.10e-03	-0.17	2.51e-04	-1.12e-05	0.0
50	56	-2.34e-03	-9.21e-03	-0.17	2.87e-04	-1.12e-06	0.0
50	70	-1.06e-04	-5.67e-03	-0.18	2.80e-04	-3.14e-06	0.0
50	72	-8.79e-05	-4.93e-03	-0.17	2.44e-04	-2.61e-06	0.0
51	2	-1.63e-04	-7.62e-03	-0.23	3.75e-04	-2.89e-06	0.0
51	8	-3.26e-03	-5.63e-03	-0.17	2.46e-04	-8.19e-06	0.0
51	32	-5.39e-04	-7.61e-03	-0.17	2.69e-04	-8.11e-06	0.0
51	36	-3.34e-04	-7.62e-03	-0.17	2.69e-04	-7.37e-06	0.0
51	40	-5.13e-03	-6.13e-03	-0.17	2.52e-04	-1.22e-05	0.0
51	64	-8.07e-04	-9.28e-03	-0.17	2.89e-04	-1.21e-05	0.0
51	68	-4.79e-04	-9.29e-03	-0.17	2.88e-04	-1.09e-05	0.0
51	70	-1.21e-04	-5.71e-03	-0.18	2.81e-04	-2.11e-06	0.0
51	72	-9.61e-05	-4.97e-03	-0.17	2.45e-04	-1.55e-06	0.0

52	2	2.08e-04	-7.85e-03	-0.24	3.85e-04	1.18e-05	0.0
52	10	3.32e-03	-5.80e-03	-0.17	2.52e-04	1.45e-05	0.0
52	30	1.60e-03	-7.86e-03	-0.18	2.80e-04	6.80e-06	0.0
52	32	-2.10e-04	-7.85e-03	-0.18	2.80e-04	2.04e-06	0.0
52	42	5.20e-03	-6.34e-03	-0.18	2.59e-04	1.86e-05	0.0
52	62	2.47e-03	-9.61e-03	-0.18	3.03e-04	6.41e-06	0.0
52	64	-4.14e-04	-9.59e-03	-0.18	3.03e-04	-1.15e-06	0.0
52	70	1.56e-04	-5.87e-03	-0.19	2.88e-04	8.88e-06	0.0
52	72	1.37e-04	-5.09e-03	-0.18	2.50e-04	7.76e-06	0.0
53	2	4.50e-04	-7.19e-03	-0.23	3.56e-04	2.38e-05	0.0
53	10	3.30e-03	-5.31e-03	-0.17	2.32e-04	1.47e-05	0.0
53	32	-7.32e-05	-7.41e-03	-0.17	2.56e-04	1.18e-05	0.0
53	36	1.19e-04	-7.42e-03	-0.17	2.55e-04	1.21e-05	0.0
53	42	5.08e-03	-5.77e-03	-0.17	2.36e-04	1.45e-05	0.0
53	64	-2.85e-04	-9.11e-03	-0.17	2.74e-04	1.00e-05	0.0
53	68	2.25e-05	-9.12e-03	-0.17	2.74e-04	1.04e-05	0.0
53	70	3.38e-04	-5.39e-03	-0.18	2.67e-04	1.79e-05	0.0
53	72	2.94e-04	-4.69e-03	-0.17	2.33e-04	1.55e-05	0.0
54	2	6.01e-04	-7.34e-03	-0.24	3.63e-04	3.12e-05	0.0
54	10	3.46e-03	-5.54e-03	-0.17	2.36e-04	2.11e-05	0.0
54	32	7.69e-05	-7.47e-03	-0.18	2.60e-04	2.21e-05	0.0
54	36	2.88e-04	-7.52e-03	-0.18	2.60e-04	2.24e-05	0.0
54	42	5.27e-03	-6.10e-03	-0.17	2.41e-04	2.19e-05	0.0
54	64	-1.01e-04	-9.17e-03	-0.18	2.80e-04	2.36e-05	0.0
54	68	2.37e-04	-9.25e-03	-0.18	2.79e-04	2.40e-05	0.0
54	70	4.51e-04	-5.49e-03	-0.18	2.72e-04	2.34e-05	0.0
54	72	3.91e-04	-4.78e-03	-0.17	2.36e-04	2.02e-05	0.0
55	2	3.65e-04	-6.94e-03	-0.23	3.45e-04	1.88e-05	0.0
55	10	3.20e-03	-5.38e-03	-0.17	2.24e-04	8.92e-06	0.0
55	32	-1.22e-04	-7.25e-03	-0.17	2.48e-04	8.79e-06	0.0
55	36	6.56e-05	-7.35e-03	-0.17	2.47e-04	8.75e-06	0.0
55	42	4.96e-03	-5.99e-03	-0.17	2.29e-04	7.54e-06	0.0
55	64	-3.27e-04	-8.96e-03	-0.17	2.66e-04	7.25e-06	0.0
55	68	-2.60e-05	-9.11e-03	-0.17	2.65e-04	7.21e-06	0.0
55	70	2.73e-04	-5.19e-03	-0.18	2.58e-04	1.41e-05	0.0
55	72	2.32e-04	-4.52e-03	-0.17	2.25e-04	1.19e-05	0.0
56	2	4.59e-04	-7.08e-03	-0.24	3.52e-04	2.36e-05	0.0
56	10	3.31e-03	-5.48e-03	-0.17	2.29e-04	1.15e-05	0.0
56	32	-9.06e-06	-7.37e-03	-0.18	2.53e-04	1.18e-05	0.0
56	36	1.98e-04	-7.47e-03	-0.18	2.53e-04	1.17e-05	0.0
56	42	5.10e-03	-6.09e-03	-0.17	2.34e-04	9.95e-06	0.0
56	64	-1.81e-04	-9.10e-03	-0.18	2.72e-04	1.03e-05	0.0
56	68	1.49e-04	-9.25e-03	-0.18	2.72e-04	1.02e-05	0.0
56	70	3.44e-04	-5.30e-03	-0.18	2.63e-04	1.76e-05	0.0
56	72	2.93e-04	-4.62e-03	-0.17	2.29e-04	1.50e-05	0.0
57	2	4.92e-05	-6.83e-03	-0.23	3.40e-04	2.79e-06	0.0
57	10	2.99e-03	-5.43e-03	-0.17	2.22e-04	-1.81e-06	0.0
57	32	-3.33e-04	-7.25e-03	-0.17	2.45e-04	-1.93e-06	0.0
57	36	-1.46e-04	-7.39e-03	-0.17	2.45e-04	-2.02e-06	0.0
57	42	4.75e-03	-6.09e-03	-0.17	2.27e-04	-3.27e-06	0.0
57	64	-5.39e-04	-9.00e-03	-0.17	2.63e-04	-3.56e-06	0.0
57	68	-2.40e-04	-9.22e-03	-0.17	2.63e-04	-3.69e-06	0.0
57	70	3.57e-05	-5.12e-03	-0.18	2.55e-04	2.03e-06	0.0
57	72	1.82e-05	-4.46e-03	-0.17	2.22e-04	1.07e-06	0.0
58	2	6.17e-05	-6.98e-03	-0.24	3.47e-04	3.25e-06	0.0
58	10	3.04e-03	-5.53e-03	-0.17	2.27e-04	-2.20e-06	0.0
58	32	-2.85e-04	-7.37e-03	-0.18	2.50e-04	-2.13e-06	0.0
58	36	-7.93e-05	-7.51e-03	-0.18	2.50e-04	-2.26e-06	0.0
58	42	4.82e-03	-6.20e-03	-0.17	2.32e-04	-4.05e-06	0.0
58	64	-4.67e-04	-9.13e-03	-0.18	2.69e-04	-4.03e-06	0.0
58	68	-1.38e-04	-9.35e-03	-0.18	2.69e-04	-4.23e-06	0.0
58	70	4.50e-05	-5.23e-03	-0.18	2.60e-04	2.37e-06	0.0
58	72	2.58e-05	-4.55e-03	-0.17	2.27e-04	1.35e-06	0.0
59	2	-2.83e-04	-6.91e-03	-0.23	3.43e-04	-1.40e-05	0.0
59	11	-3.22e-03	-3.09e-03	-0.16	2.07e-04	-8.58e-06	0.0
59	30	1.15e-03	-7.57e-03	-0.17	2.47e-04	-1.39e-05	0.0
59	36	-3.76e-04	-7.57e-03	-0.17	2.47e-04	-1.36e-05	0.0
59	43	-4.99e-03	-2.35e-03	-0.16	2.01e-04	-7.83e-06	0.0
59	62	1.95e-03	-9.47e-03	-0.17	2.66e-04	-1.60e-05	0.0
59	68	-4.76e-04	-9.48e-03	-0.17	2.66e-04	-1.55e-05	0.0
59	70	-2.14e-04	-5.17e-03	-0.18	2.57e-04	-1.06e-05	0.0
59	72	-2.08e-04	-4.51e-03	-0.17	2.24e-04	-1.04e-05	0.0
60	2	-3.53e-04	-7.05e-03	-0.24	3.50e-04	-1.80e-05	0.0
60	11	-3.30e-03	-3.17e-03	-0.17	2.11e-04	-1.05e-05	0.0
60	30	1.15e-03	-7.69e-03	-0.18	2.53e-04	-1.78e-05	0.0
60	36	-3.76e-04	-7.69e-03	-0.18	2.53e-04	-1.74e-05	0.0

60	43	-5.10e-03	-2.43e-03	-0.17	2.05e-04	-9.41e-06	0.0
60	62	1.98e-03	-9.61e-03	-0.18	2.73e-04	-2.07e-05	0.0
60	68	-4.50e-04	-9.62e-03	-0.18	2.73e-04	-2.01e-05	0.0
60	70	-2.67e-04	-5.28e-03	-0.18	2.62e-04	-1.36e-05	0.0
60	72	-2.55e-04	-4.60e-03	-0.17	2.29e-04	-1.30e-05	0.0
61	2	-4.26e-04	-7.16e-03	-0.23	3.54e-04	-2.16e-05	0.0
61	11	-3.39e-03	-3.13e-03	-0.16	2.12e-04	-1.82e-05	0.0
61	30	1.07e-03	-7.88e-03	-0.17	2.56e-04	-1.78e-05	0.0
61	36	-4.87e-04	-7.88e-03	-0.17	2.56e-04	-1.96e-05	0.0
61	43	-5.20e-03	-2.33e-03	-0.16	2.06e-04	-1.95e-05	0.0
61	62	1.89e-03	-9.87e-03	-0.17	2.76e-04	-1.91e-05	0.0
61	68	-5.92e-04	-9.87e-03	-0.17	2.76e-04	-2.18e-05	0.0
61	70	-3.23e-04	-5.36e-03	-0.18	2.65e-04	-1.64e-05	0.0
61	72	-3.13e-04	-4.67e-03	-0.17	2.31e-04	-1.59e-05	0.0
62	2	-5.53e-04	-7.29e-03	-0.24	3.60e-04	-2.87e-05	0.0
62	8	-3.53e-03	-4.87e-03	-0.17	2.34e-04	-2.28e-05	0.0
62	30	1.04e-03	-7.99e-03	-0.18	2.62e-04	-2.37e-05	0.0
62	36	-5.28e-04	-7.99e-03	-0.18	2.62e-04	-2.57e-05	0.0
62	40	-5.38e-03	-5.05e-03	-0.17	2.38e-04	-2.43e-05	0.0
62	62	1.89e-03	-0.01	-0.18	2.83e-04	-2.58e-05	0.0
62	68	-6.09e-04	-0.01	-0.18	2.82e-04	-2.88e-05	0.0
62	70	-4.18e-04	-5.46e-03	-0.18	2.70e-04	-2.17e-05	0.0
62	72	-3.96e-04	-4.75e-03	-0.17	2.35e-04	-2.05e-05	0.0
63	1	-9.23e-05	-6.33e-03	-0.22	3.09e-04	-7.08e-06	0.0
63	2	-7.82e-06	-7.75e-03	-0.23	3.77e-04	-3.40e-06	0.0
63	11	-3.30e-03	-3.34e-03	-0.16	2.25e-04	-1.46e-05	0.0
63	30	1.40e-03	-8.45e-03	-0.17	2.75e-04	-3.80e-06	0.0
63	32	-4.35e-04	-8.16e-03	-0.17	2.74e-04	-9.62e-06	0.0
63	43	-5.20e-03	-2.46e-03	-0.16	2.18e-04	-2.01e-05	0.0
63	62	2.27e-03	-0.01	-0.18	2.97e-04	-2.86e-06	0.0
63	64	-6.53e-04	-0.01	-0.18	2.96e-04	-1.21e-05	0.0
63	69	-6.83e-05	-4.86e-03	-0.17	2.37e-04	-5.30e-06	0.0
63	70	-1.20e-05	-5.80e-03	-0.18	2.83e-04	-2.85e-06	0.0
63	71	-6.83e-05	-4.86e-03	-0.17	2.37e-04	-5.30e-06	0.0
63	72	-5.70e-05	-5.05e-03	-0.17	2.46e-04	-4.81e-06	0.0
64	1	-3.45e-04	-6.30e-03	-0.22	3.09e-04	-1.76e-05	0.0
64	2	-3.26e-04	-7.73e-03	-0.24	3.78e-04	-1.65e-05	0.0
64	8	-3.50e-03	-5.08e-03	-0.17	2.47e-04	-2.17e-05	0.0
64	32	-6.30e-04	-8.23e-03	-0.18	2.78e-04	-1.99e-05	0.0
64	36	-4.08e-04	-8.51e-03	-0.18	2.78e-04	-1.91e-05	0.0
64	40	-5.41e-03	-5.22e-03	-0.18	2.53e-04	-2.67e-05	0.0
64	64	-8.49e-04	-0.01	-0.18	3.03e-04	-2.37e-05	0.0
64	68	-4.93e-04	-0.01	-0.18	3.02e-04	-2.25e-05	0.0
64	69	-2.62e-04	-4.84e-03	-0.17	2.37e-04	-1.34e-05	0.0
64	70	-2.50e-04	-5.79e-03	-0.19	2.83e-04	-1.27e-05	0.0
64	71	-2.62e-04	-4.84e-03	-0.17	2.37e-04	-1.34e-05	0.0
64	72	-2.60e-04	-5.03e-03	-0.18	2.46e-04	-1.32e-05	0.0
65	2	1.92e-04	-7.64e-03	-0.23	3.76e-04	1.25e-05	0.0
65	5	3.38e-03	-4.64e-03	-0.16	2.26e-04	1.75e-05	0.0
65	32	-3.81e-04	-8.13e-03	-0.17	2.74e-04	-2.03e-06	0.0
65	36	-1.67e-04	-8.44e-03	-0.17	2.74e-04	0.0	0.0
65	37	5.33e-03	-4.54e-03	-0.16	2.20e-04	2.51e-05	0.0
65	64	-6.45e-04	-0.01	-0.18	2.97e-04	-5.92e-06	0.0
65	68	-3.03e-04	-0.01	-0.18	2.96e-04	-4.15e-06	0.0
65	70	1.39e-04	-5.72e-03	-0.18	2.82e-04	9.07e-06	0.0
65	72	7.83e-05	-4.98e-03	-0.17	2.46e-04	5.58e-06	0.0
66	2	2.03e-04	-7.72e-03	-0.23	3.78e-04	1.72e-05	0.0
66	5	3.38e-03	-4.70e-03	-0.16	2.27e-04	2.20e-05	0.0
66	32	-3.96e-04	-8.23e-03	-0.17	2.77e-04	0.0	0.0
66	36	-1.84e-04	-8.55e-03	-0.17	2.76e-04	1.10e-06	0.0
66	37	5.33e-03	-4.61e-03	-0.16	2.20e-04	3.03e-05	0.0
66	64	-6.78e-04	-0.01	-0.18	3.00e-04	-4.48e-06	0.0
66	68	-3.39e-04	-0.01	-0.18	2.99e-04	-2.79e-06	0.0
66	70	1.48e-04	-5.78e-03	-0.18	2.83e-04	1.26e-05	0.0
66	72	9.17e-05	-5.03e-03	-0.17	2.47e-04	8.77e-06	0.0
67	2	6.76e-04	-7.86e-03	-0.24	3.84e-04	3.63e-05	0.0
67	10	3.70e-03	-6.53e-03	-0.17	2.51e-04	3.39e-05	0.0
67	32	0.0	-8.41e-03	-0.18	2.85e-04	1.30e-05	0.0
67	36	2.30e-04	-8.74e-03	-0.18	2.85e-04	1.42e-05	0.0
67	42	5.68e-03	-7.48e-03	-0.17	2.58e-04	4.27e-05	0.0
67	64	-2.14e-04	-0.01	-0.19	3.11e-04	9.58e-06	0.0
67	68	1.55e-04	-0.01	-0.19	3.11e-04	1.16e-05	0.0
67	70	5.00e-04	-5.88e-03	-0.19	2.88e-04	2.68e-05	0.0
67	72	3.85e-04	-5.11e-03	-0.18	2.50e-04	2.07e-05	0.0
68	2	9.68e-04	-7.10e-03	-0.23	3.51e-04	5.10e-05	0.0
68	10	3.76e-03	-6.10e-03	-0.16	2.28e-04	3.81e-05	0.0

68	32	1.31e-04	-7.86e-03	-0.17	2.58e-04	2.25e-05	0.0
68	36	3.35e-04	-8.22e-03	-0.17	2.57e-04	2.33e-05	0.0
68	42	5.67e-03	-7.05e-03	-0.16	2.31e-04	4.44e-05	0.0
68	64	-1.02e-04	-9.86e-03	-0.18	2.79e-04	1.98e-05	0.0
68	68	2.24e-04	-0.01	-0.17	2.78e-04	2.10e-05	0.0
68	70	7.17e-04	-5.32e-03	-0.18	2.63e-04	3.78e-05	0.0
68	72	5.62e-04	-4.65e-03	-0.17	2.30e-04	2.96e-05	0.0
69	2	1.18e-03	-7.23e-03	-0.24	3.57e-04	6.20e-05	0.0
69	10	3.96e-03	-6.19e-03	-0.17	2.32e-04	4.53e-05	0.0
69	32	3.22e-04	-7.97e-03	-0.18	2.63e-04	2.90e-05	0.0
69	36	5.47e-04	-8.33e-03	-0.18	2.62e-04	2.98e-05	0.0
69	42	5.92e-03	-7.15e-03	-0.17	2.36e-04	5.19e-05	0.0
69	64	1.25e-04	-9.99e-03	-0.18	2.85e-04	2.63e-05	0.0
69	68	4.84e-04	-0.01	-0.18	2.84e-04	2.76e-05	0.0
69	70	8.79e-04	-5.42e-03	-0.18	2.68e-04	4.60e-05	0.0
69	72	6.97e-04	-4.73e-03	-0.17	2.34e-04	3.65e-05	0.0
70	2	9.35e-04	-6.70e-03	-0.23	3.33e-04	4.87e-05	0.0
70	10	3.73e-03	-5.94e-03	-0.16	2.16e-04	3.62e-05	0.0
70	32	8.68e-05	-7.67e-03	-0.17	2.46e-04	1.97e-05	0.0
70	36	2.90e-04	-8.08e-03	-0.17	2.46e-04	2.03e-05	0.0
70	42	5.65e-03	-6.94e-03	-0.16	2.19e-04	4.29e-05	0.0
70	64	-1.48e-04	-9.70e-03	-0.17	2.67e-04	1.68e-05	0.0
70	68	1.78e-04	-0.01	-0.17	2.66e-04	1.79e-05	0.0
70	70	6.91e-04	-5.02e-03	-0.17	2.49e-04	3.60e-05	0.0
70	72	5.23e-04	-4.40e-03	-0.16	2.19e-04	2.72e-05	0.0
71	2	1.10e-03	-6.84e-03	-0.24	3.40e-04	5.74e-05	0.0
71	10	3.90e-03	-6.05e-03	-0.17	2.20e-04	4.17e-05	0.0
71	32	2.43e-04	-7.79e-03	-0.18	2.52e-04	2.47e-05	0.0
71	36	4.67e-04	-8.20e-03	-0.18	2.51e-04	2.54e-05	0.0
71	42	5.86e-03	-7.05e-03	-0.17	2.24e-04	4.86e-05	0.0
71	64	4.39e-05	-9.84e-03	-0.18	2.74e-04	2.20e-05	0.0
71	68	4.01e-04	-0.01	-0.18	2.73e-04	2.31e-05	0.0
71	70	8.15e-04	-5.13e-03	-0.18	2.55e-04	4.24e-05	0.0
71	72	6.25e-04	-4.49e-03	-0.17	2.23e-04	3.25e-05	0.0
72	2	5.94e-04	-6.46e-03	-0.23	3.21e-04	3.14e-05	0.0
72	10	3.54e-03	-5.90e-03	-0.16	2.09e-04	2.65e-05	0.0
72	32	-1.66e-04	-7.60e-03	-0.17	2.40e-04	6.93e-06	0.0
72	36	3.95e-05	-8.04e-03	-0.17	2.39e-04	7.70e-06	0.0
72	42	5.49e-03	-6.95e-03	-0.16	2.11e-04	3.44e-05	0.0
72	64	-4.11e-04	-9.66e-03	-0.17	2.60e-04	3.53e-06	0.0
72	68	-8.21e-05	-0.01	-0.17	2.59e-04	4.77e-06	0.0
72	70	4.33e-04	-4.84e-03	-0.17	2.41e-04	2.29e-05	0.0
72	72	2.83e-04	-4.25e-03	-0.16	2.12e-04	1.51e-05	0.0
73	2	6.79e-04	-6.59e-03	-0.24	3.28e-04	3.58e-05	0.0
73	10	3.65e-03	-5.99e-03	-0.17	2.13e-04	2.91e-05	0.0
73	32	-7.83e-05	-7.71e-03	-0.18	2.45e-04	8.81e-06	0.0
73	36	1.47e-04	-8.15e-03	-0.18	2.44e-04	9.61e-06	0.0
73	42	5.63e-03	-7.05e-03	-0.17	2.16e-04	3.71e-05	0.0
73	64	-2.98e-04	-9.78e-03	-0.18	2.67e-04	5.23e-06	0.0
73	68	6.24e-05	-0.01	-0.18	2.66e-04	6.50e-06	0.0
73	70	4.95e-04	-4.94e-03	-0.18	2.46e-04	2.61e-05	0.0
73	72	3.32e-04	-4.34e-03	-0.17	2.16e-04	1.76e-05	0.0
74	2	1.41e-04	-6.39e-03	-0.22	3.18e-04	8.66e-06	0.0
74	4	1.71e-04	-5.14e-03	-0.18	2.56e-04	9.97e-06	0.0
74	8	-3.42e-03	-3.86e-03	-0.17	2.16e-04	-2.01e-05	0.0
74	32	-4.95e-04	-7.66e-03	-0.17	2.40e-04	-9.57e-06	0.0
74	36	-2.85e-04	-8.16e-03	-0.17	2.39e-04	-8.56e-06	0.0
74	40	-5.41e-03	-3.74e-03	-0.17	2.23e-04	-3.06e-05	0.0
74	64	-7.56e-04	-9.78e-03	-0.17	2.61e-04	-1.38e-05	0.0
74	68	-4.19e-04	-0.01	-0.17	2.60e-04	-1.22e-05	0.0
74	70	9.10e-05	-4.80e-03	-0.17	2.39e-04	5.74e-06	0.0
74	71	-5.62e-05	-4.08e-03	-0.16	2.03e-04	-2.03e-06	0.0
74	72	-2.67e-05	-4.22e-03	-0.16	2.10e-04	0.0	0.0
75	2	1.32e-04	-6.52e-03	-0.23	3.25e-04	8.06e-06	0.0
75	4	1.66e-04	-5.25e-03	-0.18	2.61e-04	9.58e-06	0.0
75	8	-3.50e-03	-3.94e-03	-0.17	2.20e-04	-2.16e-05	0.0
75	32	-4.84e-04	-7.77e-03	-0.18	2.45e-04	-1.17e-05	0.0
75	36	-2.53e-04	-8.27e-03	-0.18	2.44e-04	-1.07e-05	0.0
75	40	-5.53e-03	-3.83e-03	-0.18	2.28e-04	-3.25e-05	0.0
75	64	-7.31e-04	-9.91e-03	-0.18	2.67e-04	-1.68e-05	0.0
75	68	-3.61e-04	-0.01	-0.18	2.66e-04	-1.51e-05	0.0
75	70	8.28e-05	-4.90e-03	-0.18	2.44e-04	5.21e-06	0.0
75	71	-7.05e-05	-4.16e-03	-0.17	2.07e-04	-2.86e-06	0.0
75	72	-3.98e-05	-4.31e-03	-0.17	2.14e-04	-1.25e-06	0.0
76	1	-4.22e-04	-5.44e-03	-0.21	2.70e-04	-2.02e-05	0.0
76	2	-2.59e-04	-6.52e-03	-0.22	3.24e-04	-1.14e-05	0.0

76	8	-3.79e-03	-3.89e-03	-0.17	2.22e-04	-3.76e-05	0.0
76	32	-7.86e-04	-7.87e-03	-0.17	2.46e-04	-2.42e-05	0.0
76	36	-5.68e-04	-8.41e-03	-0.17	2.45e-04	-2.28e-05	0.0
76	40	-5.83e-03	-3.73e-03	-0.17	2.30e-04	-5.07e-05	0.0
76	64	-1.06e-03	-0.01	-0.17	2.69e-04	-2.93e-05	0.0
76	68	-7.14e-04	-0.01	-0.17	2.68e-04	-2.71e-05	0.0
76	69	-3.19e-04	-4.18e-03	-0.16	2.07e-04	-1.52e-05	0.0
76	70	-2.10e-04	-4.90e-03	-0.17	2.43e-04	-9.38e-06	0.0
76	71	-3.19e-04	-4.18e-03	-0.16	2.07e-04	-1.52e-05	0.0
76	72	-2.97e-04	-4.32e-03	-0.16	2.15e-04	-1.41e-05	0.0
77	1	-5.09e-04	-5.54e-03	-0.22	2.75e-04	-2.49e-05	0.0
77	2	-3.53e-04	-6.65e-03	-0.23	3.30e-04	-1.66e-05	0.0
77	8	-3.94e-03	-3.96e-03	-0.17	2.25e-04	-4.27e-05	0.0
77	32	-8.38e-04	-7.98e-03	-0.18	2.51e-04	-2.98e-05	0.0
77	36	-5.98e-04	-8.53e-03	-0.18	2.51e-04	-2.83e-05	0.0
77	40	-6.04e-03	-3.80e-03	-0.18	2.34e-04	-5.66e-05	0.0
77	64	-1.11e-03	-0.01	-0.18	2.75e-04	-3.62e-05	0.0
77	68	-7.22e-04	-0.01	-0.18	2.74e-04	-3.38e-05	0.0
77	69	-3.86e-04	-4.25e-03	-0.17	2.11e-04	-1.89e-05	0.0
77	70	-2.82e-04	-4.99e-03	-0.18	2.48e-04	-1.33e-05	0.0
77	71	-3.86e-04	-4.25e-03	-0.17	2.11e-04	-1.89e-05	0.0
77	72	-3.66e-04	-4.40e-03	-0.17	2.18e-04	-1.78e-05	0.0
78	1	-5.42e-04	-5.75e-03	-0.21	2.84e-04	-2.67e-05	0.0
78	2	-4.03e-04	-6.88e-03	-0.23	3.39e-04	-1.92e-05	0.0
78	11	-4.05e-03	-2.28e-03	-0.17	2.15e-04	-4.92e-05	0.0
78	32	-8.89e-04	-8.28e-03	-0.17	2.61e-04	-2.99e-05	0.0
78	36	-6.54e-04	-8.87e-03	-0.17	2.60e-04	-2.78e-05	0.0
78	43	-6.19e-03	-1.04e-03	-0.17	2.13e-04	-6.63e-05	0.0
78	64	-1.17e-03	-0.01	-0.18	2.86e-04	-3.55e-05	0.0
78	68	-7.96e-04	-0.01	-0.18	2.85e-04	-3.22e-05	0.0
78	69	-4.12e-04	-4.42e-03	-0.16	2.18e-04	-2.02e-05	0.0
78	70	-3.19e-04	-5.17e-03	-0.17	2.55e-04	-1.53e-05	0.0
78	71	-4.12e-04	-4.42e-03	-0.16	2.18e-04	-2.02e-05	0.0
78	72	-3.93e-04	-4.57e-03	-0.16	2.25e-04	-1.92e-05	0.0
79	1	-7.13e-04	-5.86e-03	-0.22	2.88e-04	-3.51e-05	0.0
79	2	-6.02e-04	-7.02e-03	-0.24	3.45e-04	-2.91e-05	0.0
79	8	-4.21e-03	-4.17e-03	-0.18	2.39e-04	-5.69e-05	0.0
79	32	-1.03e-03	-8.45e-03	-0.18	2.68e-04	-3.94e-05	0.0
79	36	-7.74e-04	-9.04e-03	-0.18	2.67e-04	-3.73e-05	0.0
79	40	-6.38e-03	-3.98e-03	-0.18	2.49e-04	-7.46e-05	0.0
79	64	-1.31e-03	-0.01	-0.19	2.96e-04	-4.68e-05	0.0
79	68	-9.11e-04	-0.01	-0.18	2.95e-04	-4.35e-05	0.0
79	69	-5.43e-04	-4.50e-03	-0.17	2.21e-04	-2.67e-05	0.0
79	70	-4.69e-04	-5.27e-03	-0.18	2.59e-04	-2.27e-05	0.0
79	71	-5.43e-04	-4.50e-03	-0.17	2.21e-04	-2.67e-05	0.0
79	72	-5.28e-04	-4.65e-03	-0.17	2.29e-04	-2.59e-05	0.0
80	1	-6.14e-04	-5.85e-03	-0.21	2.90e-04	-2.81e-05	0.0
80	2	-5.02e-04	-6.99e-03	-0.23	3.46e-04	-2.16e-05	0.0
80	8	-4.18e-03	-4.12e-03	-0.17	2.42e-04	-5.43e-05	0.0
80	32	-1.01e-03	-8.39e-03	-0.17	2.66e-04	-3.35e-05	0.0
80	36	-7.71e-04	-9.00e-03	-0.17	2.65e-04	-3.11e-05	0.0
80	40	-6.37e-03	-3.91e-03	-0.18	2.53e-04	-7.36e-05	0.0
80	64	-1.34e-03	-0.01	-0.18	2.92e-04	-4.06e-05	0.0
80	68	-9.51e-04	-0.01	-0.18	2.91e-04	-3.68e-05	0.0
80	69	-4.67e-04	-4.49e-03	-0.16	2.22e-04	-2.14e-05	0.0
80	70	-3.93e-04	-5.25e-03	-0.17	2.60e-04	-1.70e-05	0.0
80	71	-4.67e-04	-4.49e-03	-0.16	2.22e-04	-2.14e-05	0.0
80	72	-4.52e-04	-4.64e-03	-0.17	2.30e-04	-2.05e-05	0.0
81	1	3.21e-04	-5.37e-03	-0.20	2.66e-04	1.42e-05	0.0
81	2	1.60e-04	-6.40e-03	-0.21	3.17e-04	5.32e-06	0.0
81	6	3.42e-03	-4.45e-03	-0.16	2.28e-04	3.62e-05	0.0
81	10	3.69e-03	-3.74e-03	-0.16	2.23e-04	3.58e-05	0.0
81	26	5.98e-04	-8.47e-03	-0.16	2.40e-04	1.69e-05	0.0
81	38	5.29e-03	-4.66e-03	-0.16	2.41e-04	5.12e-05	0.0
81	42	5.72e-03	-3.53e-03	-0.16	2.35e-04	5.06e-05	0.0
81	58	8.08e-04	-0.01	-0.16	2.61e-04	2.05e-05	0.0
81	69	2.41e-04	-4.12e-03	-0.15	2.04e-04	1.06e-05	0.0
81	70	1.34e-04	-4.81e-03	-0.16	2.38e-04	4.69e-06	0.0
81	71	2.41e-04	-4.12e-03	-0.15	2.04e-04	1.06e-05	0.0
81	72	2.20e-04	-4.26e-03	-0.15	2.11e-04	9.42e-06	0.0
82	1	3.38e-04	-5.15e-03	-0.20	2.55e-04	1.53e-05	0.0
82	2	1.77e-04	-6.15e-03	-0.21	3.05e-04	6.58e-06	0.0
82	10	3.65e-03	-3.61e-03	-0.16	2.11e-04	3.41e-05	0.0
82	22	7.88e-04	-7.60e-03	-0.16	2.31e-04	1.89e-05	0.0
82	26	6.01e-04	-8.16e-03	-0.16	2.30e-04	1.74e-05	0.0
82	42	5.65e-03	-3.42e-03	-0.16	2.20e-04	4.75e-05	0.0

82	54	1.11e-03	-9.75e-03	-0.16	2.51e-04	2.32e-05	0.0
82	58	8.06e-04	-0.01	-0.16	2.50e-04	2.08e-05	0.0
82	69	2.54e-04	-3.95e-03	-0.15	1.96e-04	1.15e-05	0.0
82	70	1.46e-04	-4.62e-03	-0.16	2.29e-04	5.64e-06	0.0
82	71	2.54e-04	-3.95e-03	-0.15	1.96e-04	1.15e-05	0.0
82	72	2.32e-04	-4.08e-03	-0.15	2.03e-04	1.03e-05	0.0
83	1	1.95e-04	-4.97e-03	-0.20	2.47e-04	8.32e-06	0.0
83	2	1.21e-05	-5.96e-03	-0.21	2.96e-04	-1.49e-06	0.0
83	10	3.45e-03	-3.54e-03	-0.16	2.03e-04	2.45e-05	0.0
83	22	6.56e-04	-7.37e-03	-0.16	2.23e-04	1.25e-05	0.0
83	26	4.76e-04	-7.89e-03	-0.16	2.22e-04	1.14e-05	0.0
83	42	5.40e-03	-3.38e-03	-0.16	2.10e-04	3.54e-05	0.0
83	54	9.59e-04	-9.47e-03	-0.16	2.43e-04	1.61e-05	0.0
83	58	6.71e-04	-0.01	-0.16	2.42e-04	1.43e-05	0.0
83	69	1.44e-04	-3.81e-03	-0.15	1.90e-04	6.09e-06	0.0
83	70	2.20e-05	-4.47e-03	-0.16	2.22e-04	0.0	0.0
83	71	1.44e-04	-3.81e-03	-0.15	1.90e-04	6.09e-06	0.0
83	72	1.20e-04	-3.95e-03	-0.15	1.96e-04	4.78e-06	0.0
84	2	-2.67e-04	-5.92e-03	-0.21	2.94e-04	-1.52e-05	0.0
84	4	-2.68e-04	-4.76e-03	-0.16	2.37e-04	-1.50e-05	0.0
84	11	-3.28e-03	-3.97e-03	-0.15	1.76e-04	-1.79e-05	0.0
84	22	4.54e-04	-7.24e-03	-0.16	2.20e-04	2.59e-06	0.0
84	26	2.80e-04	-7.72e-03	-0.16	2.20e-04	1.75e-06	0.0
84	43	-5.18e-03	-4.08e-03	-0.15	1.69e-04	-2.65e-05	0.0
84	54	7.49e-04	-9.29e-03	-0.16	2.39e-04	5.84e-06	0.0
84	58	4.71e-04	-0.01	-0.16	2.38e-04	4.50e-06	0.0
84	70	-1.89e-04	-4.44e-03	-0.16	2.21e-04	-1.08e-05	0.0
84	72	-7.33e-05	-3.90e-03	-0.15	1.94e-04	-4.73e-06	0.0
85	2	-5.36e-04	-6.04e-03	-0.21	3.00e-04	-2.85e-05	0.0
85	11	-3.41e-03	-3.94e-03	-0.15	1.79e-04	-2.54e-05	0.0
85	22	2.59e-04	-7.23e-03	-0.16	2.23e-04	-7.02e-06	0.0
85	26	8.85e-05	-7.66e-03	-0.16	2.22e-04	-7.69e-06	0.0
85	43	-5.28e-03	-4.00e-03	-0.15	1.73e-04	-3.30e-05	0.0
85	54	5.49e-04	-9.23e-03	-0.16	2.42e-04	-4.00e-06	0.0
85	58	2.77e-04	-9.91e-03	-0.16	2.41e-04	-5.07e-06	0.0
85	70	-3.92e-04	-4.53e-03	-0.16	2.25e-04	-2.09e-05	0.0
85	72	-2.63e-04	-3.97e-03	-0.15	1.98e-04	-1.41e-05	0.0
86	2	-6.66e-04	-6.30e-03	-0.21	3.12e-04	-3.49e-05	0.0
86	11	-3.48e-03	-4.00e-03	-0.15	1.87e-04	-2.88e-05	0.0
86	22	1.58e-04	-7.31e-03	-0.16	2.30e-04	-1.20e-05	0.0
86	26	-1.09e-05	-7.70e-03	-0.16	2.29e-04	-1.27e-05	0.0
86	43	-5.33e-03	-4.01e-03	-0.15	1.80e-04	-3.54e-05	0.0
86	54	4.49e-04	-9.28e-03	-0.16	2.48e-04	-9.05e-06	0.0
86	58	1.78e-04	-9.89e-03	-0.16	2.47e-04	-1.00e-05	0.0
86	70	-4.92e-04	-4.72e-03	-0.16	2.34e-04	-2.57e-05	0.0
86	72	-3.63e-04	-4.13e-03	-0.15	2.05e-04	-1.90e-05	0.0
87	2	-5.33e-04	-6.61e-03	-0.21	3.26e-04	-2.84e-05	0.0
87	11	-3.40e-03	-4.11e-03	-0.15	1.96e-04	-2.37e-05	0.0
87	22	2.21e-04	-7.42e-03	-0.16	2.37e-04	-9.15e-06	0.0
87	26	5.09e-05	-7.77e-03	-0.16	2.37e-04	-9.81e-06	0.0
87	43	-5.25e-03	-4.07e-03	-0.15	1.90e-04	-2.94e-05	0.0
87	54	5.10e-04	-9.34e-03	-0.16	2.56e-04	-6.27e-06	0.0
87	58	2.38e-04	-9.88e-03	-0.16	2.55e-04	-7.32e-06	0.0
87	70	-3.94e-04	-4.95e-03	-0.16	2.45e-04	-2.10e-05	0.0
87	72	-2.91e-04	-4.33e-03	-0.16	2.14e-04	-1.56e-05	0.0
88	2	-2.35e-04	-6.75e-03	-0.21	3.34e-04	-1.27e-05	0.0
88	11	-3.19e-03	-4.13e-03	-0.15	2.02e-04	-1.28e-05	0.0
88	22	3.79e-04	-7.43e-03	-0.16	2.41e-04	0.0	0.0
88	26	2.11e-04	-7.74e-03	-0.16	2.41e-04	-1.28e-06	0.0
88	43	-5.01e-03	-4.05e-03	-0.15	1.97e-04	-1.74e-05	0.0
88	54	6.57e-04	-9.31e-03	-0.16	2.59e-04	1.75e-06	0.0
88	58	3.87e-04	-9.79e-03	-0.16	2.59e-04	0.0	0.0
88	70	-1.71e-04	-5.06e-03	-0.16	2.50e-04	-9.29e-06	0.0
88	72	-1.05e-04	-4.42e-03	-0.16	2.19e-04	-5.80e-06	0.0
89	2	4.58e-04	7.07e-03	-0.24	-3.51e-04	2.36e-05	0.0
89	17	3.31e-03	5.48e-03	-0.17	-2.29e-04	1.15e-05	0.0
89	31	2.01e-04	7.46e-03	-0.18	-2.53e-04	1.17e-05	0.0
89	35	-7.36e-06	7.36e-03	-0.18	-2.53e-04	1.18e-05	0.0
89	49	5.09e-03	6.09e-03	-0.17	-2.33e-04	9.94e-06	0.0
89	63	1.56e-04	9.24e-03	-0.18	-2.71e-04	1.02e-05	0.0
89	67	-1.78e-04	9.09e-03	-0.18	-2.72e-04	1.03e-05	0.0
89	70	3.43e-04	5.30e-03	-0.18	-2.63e-04	1.77e-05	0.0
89	72	2.92e-04	4.61e-03	-0.17	-2.29e-04	1.50e-05	0.0
90	1	1.66e-04	-5.47e-03	-0.20	2.71e-04	8.38e-06	0.0
90	2	1.22e-04	-6.66e-03	-0.21	3.29e-04	6.07e-06	0.0
90	5	3.17e-03	-2.80e-03	-0.15	2.00e-04	1.16e-05	0.0

90	22	5.68e-04	-7.29e-03	-0.16	2.37e-04	9.43e-06	0.0
90	26	4.02e-04	-7.55e-03	-0.16	2.37e-04	8.98e-06	0.0
90	37	4.96e-03	-1.98e-03	-0.15	1.95e-04	1.47e-05	0.0
90	54	8.30e-04	-9.12e-03	-0.16	2.54e-04	1.12e-05	0.0
90	58	5.65e-04	-9.53e-03	-0.16	2.54e-04	1.05e-05	0.0
90	69	1.25e-04	-4.20e-03	-0.15	2.08e-04	6.31e-06	0.0
90	70	9.60e-05	-4.99e-03	-0.16	2.47e-04	4.76e-06	0.0
90	71	1.25e-04	-4.20e-03	-0.15	2.08e-04	6.31e-06	0.0
90	72	1.19e-04	-4.36e-03	-0.16	2.15e-04	6.00e-06	0.0
91	1	2.22e-04	-5.29e-03	-0.20	2.63e-04	1.10e-05	0.0
91	2	2.12e-04	-6.45e-03	-0.21	3.20e-04	1.03e-05	0.0
91	5	3.14e-03	-2.76e-03	-0.15	1.92e-04	1.02e-05	0.0
91	24	-1.11e-03	-7.30e-03	-0.16	2.31e-04	9.33e-06	0.0
91	26	4.36e-04	-7.30e-03	-0.16	2.30e-04	1.05e-05	0.0
91	37	4.89e-03	-2.00e-03	-0.15	1.87e-04	1.12e-05	0.0
91	56	-1.86e-03	-9.21e-03	-0.16	2.48e-04	9.91e-06	0.0
91	58	5.93e-04	-9.21e-03	-0.16	2.47e-04	1.18e-05	0.0
91	69	1.69e-04	-4.06e-03	-0.15	2.02e-04	8.36e-06	0.0
91	70	1.62e-04	-4.83e-03	-0.16	2.40e-04	7.91e-06	0.0
91	71	1.69e-04	-4.06e-03	-0.15	2.02e-04	8.36e-06	0.0
91	72	1.67e-04	-4.21e-03	-0.16	2.09e-04	8.27e-06	0.0
92	1	1.02e-04	-5.18e-03	-0.20	2.58e-04	5.13e-06	0.0
92	2	8.45e-05	-6.32e-03	-0.21	3.14e-04	4.18e-06	0.0
92	5	3.00e-03	-2.79e-03	-0.15	1.90e-04	2.53e-06	0.0
92	24	-1.18e-03	-7.09e-03	-0.16	2.26e-04	6.31e-06	0.0
92	26	3.46e-04	-7.09e-03	-0.16	2.26e-04	6.01e-06	0.0
92	37	4.72e-03	-2.09e-03	-0.15	1.85e-04	2.00e-06	0.0
92	58	5.04e-04	-8.93e-03	-0.16	2.43e-04	7.29e-06	0.0
92	60	-1.66e-03	-8.66e-03	-0.16	2.42e-04	7.55e-06	0.0
92	69	7.66e-05	-3.98e-03	-0.15	1.98e-04	3.86e-06	0.0
92	70	6.51e-05	-4.73e-03	-0.16	2.35e-04	3.23e-06	0.0
92	71	7.66e-05	-3.98e-03	-0.15	1.98e-04	3.86e-06	0.0
92	72	7.43e-05	-4.13e-03	-0.15	2.05e-04	3.73e-06	0.0
93	2	-1.18e-04	-6.32e-03	-0.21	3.14e-04	-5.75e-06	0.0
93	11	-2.97e-03	-3.45e-03	-0.15	1.89e-04	-1.07e-06	0.0
93	24	-1.30e-03	-6.97e-03	-0.16	2.25e-04	0.0	0.0
93	26	2.12e-04	-6.98e-03	-0.16	2.26e-04	0.0	0.0
93	43	-4.68e-03	-3.14e-03	-0.15	1.85e-04	0.0	0.0
93	56	-2.03e-03	-8.74e-03	-0.16	2.41e-04	1.87e-06	0.0
93	58	3.74e-04	-8.75e-03	-0.16	2.42e-04	0.0	0.0
93	70	-8.80e-05	-4.74e-03	-0.16	2.35e-04	-4.27e-06	0.0
93	72	-6.68e-05	-4.13e-03	-0.15	2.05e-04	-3.20e-06	0.0
94	2	-2.55e-04	-6.46e-03	-0.21	3.20e-04	-1.23e-05	0.0
94	11	-3.07e-03	-3.43e-03	-0.15	1.93e-04	-6.27e-06	0.0
94	22	2.85e-04	-6.88e-03	-0.16	2.29e-04	-4.53e-06	0.0
94	26	1.27e-04	-6.96e-03	-0.16	2.29e-04	-4.56e-06	0.0
94	43	-4.80e-03	-3.05e-03	-0.15	1.87e-04	-5.75e-06	0.0
94	54	5.47e-04	-8.54e-03	-0.16	2.46e-04	-2.73e-06	0.0
94	58	2.94e-04	-8.66e-03	-0.16	2.45e-04	-2.83e-06	0.0
94	70	-1.91e-04	-4.84e-03	-0.16	2.40e-04	-9.23e-06	0.0
94	72	-1.62e-04	-4.22e-03	-0.16	2.09e-04	-7.84e-06	0.0
95	2	-1.96e-04	-6.66e-03	-0.21	3.29e-04	-9.42e-06	0.0
95	11	-3.07e-03	-3.37e-03	-0.15	1.98e-04	-6.42e-06	0.0
95	22	3.22e-04	-6.96e-03	-0.16	2.34e-04	-2.61e-06	0.0
95	26	1.61e-04	-6.96e-03	-0.16	2.34e-04	-2.88e-06	0.0
95	43	-4.81e-03	-2.88e-03	-0.15	1.93e-04	-6.67e-06	0.0
95	54	5.86e-04	-8.59e-03	-0.16	2.49e-04	0.0	0.0
95	58	3.27e-04	-8.60e-03	-0.16	2.49e-04	-1.10e-06	0.0
95	70	-1.47e-04	-4.99e-03	-0.16	2.46e-04	-7.08e-06	0.0
95	72	-1.28e-04	-4.35e-03	-0.16	2.15e-04	-6.14e-06	0.0
96	2	-2.10e-05	-6.72e-03	-0.22	3.32e-04	0.0	0.0
96	11	-2.96e-03	-3.43e-03	-0.15	2.01e-04	-1.10e-06	0.0
96	24	-1.27e-03	-6.90e-03	-0.16	2.35e-04	1.67e-06	0.0
96	28	-1.11e-03	-6.90e-03	-0.16	2.35e-04	1.96e-06	0.0
96	43	-4.70e-03	-2.96e-03	-0.15	1.97e-04	-1.46e-06	0.0
96	56	-2.01e-03	-8.48e-03	-0.16	2.50e-04	2.91e-06	0.0
96	60	-1.75e-03	-8.48e-03	-0.16	2.50e-04	3.37e-06	0.0
96	70	-1.56e-05	-5.03e-03	-0.16	2.49e-04	0.0	0.0
96	72	-1.29e-05	-4.39e-03	-0.16	2.17e-04	0.0	0.0
97	1	1.07e-05	-5.51e-03	-0.20	2.72e-04	1.00e-06	0.0
97	2	1.02e-05	-6.72e-03	-0.22	3.32e-04	1.13e-06	0.0
97	10	2.96e-03	-5.04e-03	-0.16	2.16e-04	1.36e-06	0.0
97	32	-4.26e-04	-6.90e-03	-0.16	2.35e-04	-2.34e-06	0.0
97	36	-2.64e-04	-6.91e-03	-0.16	2.35e-04	-2.05e-06	0.0
97	42	4.70e-03	-5.52e-03	-0.16	2.21e-04	1.67e-06	0.0
97	64	-6.83e-04	-8.48e-03	-0.16	2.50e-04	-4.15e-06	0.0

97	68	-4.25e-04	-8.49e-03	-0.16	2.50e-04	-3.70e-06	0.0
97	69	8.27e-06	-4.22e-03	-0.15	2.09e-04	0.0	0.0
97	70	7.91e-06	-5.03e-03	-0.16	2.49e-04	0.0	0.0
97	71	8.27e-06	-4.22e-03	-0.15	2.09e-04	0.0	0.0
97	72	8.20e-06	-4.39e-03	-0.16	2.17e-04	0.0	0.0
98	2	2.28e-04	-6.55e-03	-0.21	3.25e-04	1.20e-05	0.0
98	5	3.08e-03	-3.28e-03	-0.15	1.95e-04	7.44e-06	0.0
98	32	-2.99e-04	-6.92e-03	-0.16	2.32e-04	4.10e-06	0.0
98	36	-1.39e-04	-6.93e-03	-0.16	2.32e-04	4.37e-06	0.0
98	37	4.81e-03	-2.79e-03	-0.15	1.90e-04	7.34e-06	0.0
98	64	-5.61e-04	-8.57e-03	-0.16	2.48e-04	2.17e-06	0.0
98	68	-3.06e-04	-8.58e-03	-0.16	2.47e-04	2.55e-06	0.0
98	70	1.71e-04	-4.90e-03	-0.16	2.43e-04	8.99e-06	0.0
98	72	1.48e-04	-4.28e-03	-0.16	2.12e-04	7.76e-06	0.0
99	2	2.08e-04	-6.36e-03	-0.21	3.16e-04	1.09e-05	0.0
99	10	3.02e-03	-5.01e-03	-0.15	2.06e-04	4.63e-06	0.0
99	32	-3.00e-04	-6.82e-03	-0.16	2.27e-04	4.01e-06	0.0
99	36	-1.43e-04	-6.92e-03	-0.16	2.26e-04	4.03e-06	0.0
99	42	4.74e-03	-5.60e-03	-0.16	2.10e-04	3.65e-06	0.0
99	64	-5.51e-04	-8.49e-03	-0.16	2.43e-04	2.57e-06	0.0
99	68	-3.00e-04	-8.64e-03	-0.16	2.42e-04	2.61e-06	0.0
99	70	1.55e-04	-4.76e-03	-0.16	2.37e-04	8.16e-06	0.0
99	72	1.30e-04	-4.15e-03	-0.16	2.07e-04	6.78e-06	0.0
100	2	2.71e-05	-6.28e-03	-0.21	3.12e-04	1.93e-06	0.0
100	4	3.03e-05	-5.06e-03	-0.17	2.52e-04	2.01e-06	0.0
100	10	2.90e-03	-5.06e-03	-0.15	2.04e-04	-1.42e-06	0.0
100	30	1.25e-03	-6.98e-03	-0.16	2.24e-04	-2.39e-06	0.0
100	36	-2.60e-04	-6.98e-03	-0.16	2.24e-04	-1.81e-06	0.0
100	42	4.62e-03	-5.72e-03	-0.16	2.08e-04	-2.34e-06	0.0
100	66	1.74e-03	-8.54e-03	-0.16	2.40e-04	-3.91e-06	0.0
100	68	-4.13e-04	-8.77e-03	-0.16	2.40e-04	-3.06e-06	0.0
100	70	1.93e-05	-4.70e-03	-0.16	2.34e-04	1.39e-06	0.0
100	72	4.44e-06	-4.10e-03	-0.15	2.04e-04	0.0	0.0
101	1	-1.74e-04	-5.20e-03	-0.20	2.58e-04	-8.24e-06	0.0
101	2	-1.66e-04	-6.34e-03	-0.21	3.15e-04	-7.58e-06	0.0
101	11	-3.07e-03	-2.76e-03	-0.15	1.90e-04	-6.46e-06	0.0
101	34	9.78e-04	-6.95e-03	-0.16	2.26e-04	-8.06e-06	0.0
101	36	-3.91e-04	-7.14e-03	-0.16	2.26e-04	-8.36e-06	0.0
101	43	-4.80e-03	-2.04e-03	-0.15	1.86e-04	-6.43e-06	0.0
101	66	1.63e-03	-8.71e-03	-0.16	2.43e-04	-9.16e-06	0.0
101	68	-5.43e-04	-9.00e-03	-0.16	2.43e-04	-9.55e-06	0.0
101	69	-1.32e-04	-3.99e-03	-0.15	1.98e-04	-6.24e-06	0.0
101	70	-1.27e-04	-4.75e-03	-0.16	2.36e-04	-5.80e-06	0.0
101	71	-1.32e-04	-3.99e-03	-0.15	1.98e-04	-6.24e-06	0.0
101	72	-1.31e-04	-4.14e-03	-0.16	2.06e-04	-6.15e-06	0.0
102	1	-2.39e-04	-5.35e-03	-0.20	2.65e-04	-1.13e-05	0.0
102	2	-2.26e-04	-6.52e-03	-0.21	3.23e-04	-1.03e-05	0.0
102	11	-3.18e-03	-2.76e-03	-0.15	1.94e-04	-1.17e-05	0.0
102	30	1.12e-03	-7.39e-03	-0.16	2.33e-04	-8.90e-06	0.0
102	32	-6.03e-04	-7.16e-03	-0.16	2.32e-04	-1.10e-05	0.0
102	43	-4.95e-03	-1.98e-03	-0.15	1.89e-04	-1.35e-05	0.0
102	62	1.88e-03	-9.33e-03	-0.16	2.50e-04	-9.08e-06	0.0
102	64	-8.53e-04	-8.96e-03	-0.16	2.49e-04	-1.24e-05	0.0
102	69	-1.82e-04	-4.10e-03	-0.15	2.03e-04	-8.58e-06	0.0
102	70	-1.72e-04	-4.88e-03	-0.16	2.42e-04	-7.89e-06	0.0
102	71	-1.82e-04	-4.10e-03	-0.15	2.03e-04	-8.58e-06	0.0
102	72	-1.80e-04	-4.26e-03	-0.16	2.11e-04	-8.44e-06	0.0
103	1	-9.26e-05	-5.53e-03	-0.20	2.73e-04	-4.02e-06	0.0
103	2	-2.66e-05	-6.73e-03	-0.21	3.31e-04	0.0	0.0
103	11	-3.13e-03	-2.81e-03	-0.15	2.02e-04	-9.41e-06	0.0
103	32	-5.14e-04	-7.37e-03	-0.16	2.39e-04	-6.47e-06	0.0
103	36	-3.47e-04	-7.65e-03	-0.16	2.38e-04	-5.94e-06	0.0
103	43	-4.94e-03	-1.98e-03	-0.15	1.97e-04	-1.32e-05	0.0
103	64	-7.79e-04	-9.22e-03	-0.16	2.56e-04	-8.49e-06	0.0
103	68	-5.12e-04	-9.65e-03	-0.16	2.56e-04	-7.65e-06	0.0
103	69	-6.84e-05	-4.24e-03	-0.15	2.09e-04	-2.94e-06	0.0
103	70	-2.44e-05	-5.04e-03	-0.16	2.48e-04	0.0	0.0
103	71	-6.84e-05	-4.24e-03	-0.15	2.09e-04	-2.94e-06	0.0
103	72	-5.96e-05	-4.40e-03	-0.16	2.17e-04	-2.45e-06	0.0
104	2	2.25e-04	-6.76e-03	-0.21	3.33e-04	1.23e-05	0.0
104	10	3.18e-03	-5.75e-03	-0.15	2.17e-04	1.27e-05	0.0
104	32	-3.77e-04	-7.45e-03	-0.16	2.40e-04	0.0	0.0
104	36	-2.08e-04	-7.76e-03	-0.16	2.40e-04	0.0	0.0
104	42	5.01e-03	-6.62e-03	-0.16	2.21e-04	1.75e-05	0.0
104	64	-6.50e-04	-9.33e-03	-0.16	2.58e-04	-2.21e-06	0.0
104	68	-3.80e-04	-9.81e-03	-0.16	2.57e-04	-1.23e-06	0.0

104	70	1.64e-04	-5.07e-03	-0.16	2.49e-04	8.94e-06	0.0
104	72	9.94e-05	-4.42e-03	-0.16	2.18e-04	5.51e-06	0.0
105	2	3.19e-04	-6.73e-03	-0.21	3.32e-04	1.73e-05	0.0
105	10	3.25e-03	-5.75e-03	-0.15	2.15e-04	1.63e-05	0.0
105	32	-3.25e-04	-7.45e-03	-0.16	2.40e-04	3.08e-06	0.0
105	36	-1.55e-04	-7.76e-03	-0.16	2.39e-04	3.72e-06	0.0
105	42	5.09e-03	-6.63e-03	-0.15	2.19e-04	2.14e-05	0.0
105	64	-6.00e-04	-9.34e-03	-0.16	2.57e-04	0.0	0.0
105	68	-3.29e-04	-9.84e-03	-0.16	2.57e-04	1.47e-06	0.0
105	70	2.34e-04	-5.05e-03	-0.16	2.49e-04	1.27e-05	0.0
105	72	1.59e-04	-4.41e-03	-0.16	2.17e-04	8.71e-06	0.0
106	2	6.40e-04	-6.46e-03	-0.21	3.20e-04	3.34e-05	0.0
106	5	3.46e-03	-4.04e-03	-0.15	1.92e-04	2.79e-05	0.0
106	32	-1.58e-04	-7.36e-03	-0.16	2.34e-04	1.15e-05	0.0
106	36	1.13e-05	-7.72e-03	-0.16	2.33e-04	1.21e-05	0.0
106	37	5.31e-03	-4.02e-03	-0.15	1.85e-04	3.43e-05	0.0
106	64	-4.45e-04	-9.30e-03	-0.16	2.52e-04	8.40e-06	0.0
106	68	-1.74e-04	-9.87e-03	-0.16	2.51e-04	9.43e-06	0.0
106	70	4.73e-04	-4.84e-03	-0.16	2.40e-04	2.47e-05	0.0
106	72	3.55e-04	-4.23e-03	-0.16	2.10e-04	1.85e-05	0.0
107	2	6.61e-04	-6.15e-03	-0.21	3.05e-04	3.45e-05	0.0
107	10	3.47e-03	-5.57e-03	-0.15	1.97e-04	2.74e-05	0.0
107	32	-1.57e-04	-7.25e-03	-0.16	2.25e-04	1.14e-05	0.0
107	36	1.20e-05	-7.65e-03	-0.16	2.25e-04	1.20e-05	0.0
107	42	5.33e-03	-6.55e-03	-0.15	2.00e-04	3.37e-05	0.0
107	64	-4.40e-04	-9.23e-03	-0.16	2.44e-04	8.49e-06	0.0
107	68	-1.70e-04	-9.86e-03	-0.16	2.43e-04	9.48e-06	0.0
107	70	4.87e-04	-4.61e-03	-0.16	2.29e-04	2.54e-05	0.0
107	72	3.53e-04	-4.04e-03	-0.15	2.01e-04	1.84e-05	0.0
108	2	4.58e-04	-5.94e-03	-0.21	2.96e-04	2.44e-05	0.0
108	10	3.37e-03	-5.55e-03	-0.15	1.91e-04	2.23e-05	0.0
108	32	-3.08e-04	-7.20e-03	-0.16	2.20e-04	3.88e-06	0.0
108	36	-1.37e-04	-7.65e-03	-0.16	2.19e-04	4.60e-06	0.0
108	42	5.25e-03	-6.59e-03	-0.15	1.93e-04	3.00e-05	0.0
108	64	-5.94e-04	-9.22e-03	-0.16	2.39e-04	0.0	0.0
108	68	-3.20e-04	-9.93e-03	-0.16	2.38e-04	1.93e-06	0.0
108	70	3.33e-04	-4.45e-03	-0.16	2.22e-04	1.77e-05	0.0
108	72	2.05e-04	-3.91e-03	-0.15	1.95e-04	1.11e-05	0.0
109	2	1.66e-04	-5.89e-03	-0.21	2.93e-04	9.95e-06	0.0
109	4	1.89e-04	-4.73e-03	-0.16	2.36e-04	1.09e-05	0.0
109	11	-3.28e-03	-1.89e-03	-0.15	1.85e-04	-1.66e-05	0.0
109	32	-5.19e-04	-7.27e-03	-0.16	2.20e-04	-6.55e-06	0.0
109	36	-3.44e-04	-7.76e-03	-0.16	2.19e-04	-5.61e-06	0.0
109	43	-5.21e-03	-7.99e-04	-0.15	1.83e-04	-2.61e-05	0.0
109	64	-8.13e-04	-9.34e-03	-0.16	2.39e-04	-9.99e-06	0.0
109	68	-5.31e-04	-0.01	-0.16	2.38e-04	-8.49e-06	0.0
109	70	1.12e-04	-4.42e-03	-0.16	2.20e-04	6.83e-06	0.0
109	71	-2.54e-05	-3.76e-03	-0.15	1.87e-04	0.0	0.0
109	72	2.10e-06	-3.89e-03	-0.15	1.94e-04	1.02e-06	0.0
110	1	-2.57e-04	-5.01e-03	-0.20	2.49e-04	-1.17e-05	0.0
110	2	-8.17e-05	-6.00e-03	-0.21	2.98e-04	-2.26e-06	0.0
110	11	-3.54e-03	-1.88e-03	-0.15	1.90e-04	-2.90e-05	0.0
110	32	-7.00e-04	-7.45e-03	-0.16	2.25e-04	-1.54e-05	0.0
110	36	-5.17e-04	-7.98e-03	-0.16	2.24e-04	-1.42e-05	0.0
110	43	-5.51e-03	-7.36e-04	-0.16	1.89e-04	-4.10e-05	0.0
110	64	-1.00e-03	-9.58e-03	-0.16	2.45e-04	-1.93e-05	0.0
110	68	-7.09e-04	-0.01	-0.16	2.43e-04	-1.72e-05	0.0
110	69	-1.92e-04	-3.85e-03	-0.15	1.91e-04	-8.64e-06	0.0
110	70	-7.47e-05	-4.50e-03	-0.16	2.24e-04	-2.38e-06	0.0
110	71	-1.92e-04	-3.85e-03	-0.15	1.91e-04	-8.64e-06	0.0
110	72	-1.68e-04	-3.98e-03	-0.15	1.98e-04	-7.39e-06	0.0
111	1	-3.30e-04	-5.23e-03	-0.20	2.59e-04	-1.53e-05	0.0
111	2	-1.67e-04	-6.24e-03	-0.21	3.09e-04	-6.48e-06	0.0
111	11	-3.67e-03	-1.98e-03	-0.16	2.00e-04	-3.55e-05	0.0
111	12	-3.40e-03	-4.35e-03	-0.16	2.19e-04	-3.58e-05	0.0
111	36	-5.89e-04	-8.28e-03	-0.16	2.33e-04	-1.76e-05	0.0
111	43	-5.69e-03	-7.89e-04	-0.16	2.01e-04	-4.97e-05	0.0
111	44	-5.25e-03	-4.56e-03	-0.16	2.31e-04	-5.02e-05	0.0
111	68	-7.91e-04	-0.01	-0.16	2.53e-04	-2.11e-05	0.0
111	69	-2.48e-04	-4.01e-03	-0.15	1.99e-04	-1.14e-05	0.0
111	70	-1.39e-04	-4.69e-03	-0.16	2.32e-04	-5.57e-06	0.0
111	71	-2.48e-04	-4.01e-03	-0.15	1.99e-04	-1.14e-05	0.0
111	72	-2.26e-04	-4.15e-03	-0.15	2.06e-04	-1.03e-05	0.0
112	1	-3.06e-04	-5.36e-03	-0.20	2.66e-04	-1.39e-05	0.0
112	2	-1.41e-04	-6.39e-03	-0.21	3.17e-04	-5.00e-06	0.0
112	11	-3.68e-03	-2.04e-03	-0.16	2.07e-04	-3.59e-05	0.0

112	12	-3.40e-03	-4.45e-03	-0.16	2.27e-04	-3.61e-05	0.0
112	36	-5.71e-04	-8.48e-03	-0.16	2.39e-04	-1.68e-05	0.0
112	43	-5.71e-03	-8.26e-04	-0.16	2.09e-04	-5.09e-05	0.0
112	44	-5.27e-03	-4.67e-03	-0.16	2.41e-04	-5.12e-05	0.0
112	68	-7.72e-04	-0.01	-0.16	2.60e-04	-2.03e-05	0.0
112	69	-2.29e-04	-4.12e-03	-0.15	2.04e-04	-1.04e-05	0.0
112	70	-1.19e-04	-4.80e-03	-0.16	2.38e-04	-4.45e-06	0.0
112	71	-2.29e-04	-4.12e-03	-0.15	2.04e-04	-1.04e-05	0.0
112	72	-2.07e-04	-4.25e-03	-0.15	2.11e-04	-9.22e-06	0.0
113	2	-1.07e-04	-5.40e-03	-0.19	2.68e-04	-7.19e-06	0.0
113	4	-1.42e-04	-4.34e-03	-0.15	2.15e-04	-8.69e-06	0.0
113	5	3.34e-03	-1.45e-03	-0.15	1.78e-04	2.43e-05	0.0
113	6	3.12e-03	-3.78e-03	-0.15	1.94e-04	2.40e-05	0.0
113	26	4.99e-04	-7.70e-03	-0.15	2.02e-04	6.74e-06	0.0
113	37	5.28e-03	-2.66e-04	-0.15	1.80e-04	3.74e-05	0.0
113	38	4.93e-03	-3.97e-03	-0.15	2.06e-04	3.68e-05	0.0
113	58	7.58e-04	-0.01	-0.15	2.19e-04	9.50e-06	0.0
113	70	-6.86e-05	-4.06e-03	-0.15	2.02e-04	-4.80e-06	0.0
113	71	6.15e-05	-3.48e-03	-0.14	1.73e-04	2.10e-06	0.0
113	72	3.54e-05	-3.60e-03	-0.14	1.79e-04	0.0	0.0
114	1	1.52e-04	-4.36e-03	-0.19	2.17e-04	6.33e-06	0.0
114	2	-2.89e-05	-5.21e-03	-0.19	2.59e-04	-3.30e-06	0.0
114	5	3.35e-03	-1.38e-03	-0.15	1.68e-04	2.46e-05	0.0
114	6	3.14e-03	-3.65e-03	-0.15	1.84e-04	2.48e-05	0.0
114	26	5.47e-04	-7.44e-03	-0.15	1.95e-04	9.79e-06	0.0
114	37	5.26e-03	-2.28e-04	-0.15	1.69e-04	3.64e-05	0.0
114	38	4.92e-03	-3.84e-03	-0.15	1.94e-04	3.67e-05	0.0
114	58	8.04e-04	-9.85e-03	-0.15	2.11e-04	1.28e-05	0.0
114	69	1.10e-04	-3.35e-03	-0.14	1.66e-04	4.52e-06	0.0
114	70	-1.04e-05	-3.91e-03	-0.15	1.94e-04	-1.89e-06	0.0
114	71	1.10e-04	-3.35e-03	-0.14	1.66e-04	4.52e-06	0.0
114	72	8.60e-05	-3.46e-03	-0.14	1.72e-04	3.24e-06	0.0
115	2	-9.10e-05	-5.07e-03	-0.19	2.52e-04	-6.29e-06	0.0
115	4	-1.27e-04	-4.08e-03	-0.15	2.03e-04	-7.85e-06	0.0
115	10	3.25e-03	-2.97e-03	-0.15	1.74e-04	1.93e-05	0.0
115	22	6.37e-04	-6.71e-03	-0.15	1.90e-04	7.93e-06	0.0
115	26	4.95e-04	-7.22e-03	-0.15	1.89e-04	6.99e-06	0.0
115	42	5.12e-03	-2.80e-03	-0.15	1.81e-04	2.94e-05	0.0
115	54	9.76e-04	-8.75e-03	-0.15	2.07e-04	1.11e-05	0.0
115	58	7.48e-04	-9.56e-03	-0.15	2.05e-04	9.57e-06	0.0
115	69	6.52e-05	-3.25e-03	-0.14	1.62e-04	2.33e-06	0.0
115	70	-5.76e-05	-3.81e-03	-0.15	1.89e-04	-4.17e-06	0.0
115	71	6.52e-05	-3.25e-03	-0.14	1.62e-04	2.33e-06	0.0
115	72	4.06e-05	-3.36e-03	-0.14	1.67e-04	1.03e-06	0.0
116	2	-2.40e-04	-5.05e-03	-0.20	2.51e-04	-1.35e-05	0.0
116	4	-2.43e-04	-4.06e-03	-0.15	2.02e-04	-1.35e-05	0.0
116	11	-3.16e-03	-3.43e-03	-0.14	1.49e-04	-1.68e-05	0.0
116	22	5.23e-04	-6.60e-03	-0.15	1.88e-04	2.31e-06	0.0
116	26	3.85e-04	-7.07e-03	-0.15	1.87e-04	1.58e-06	0.0
116	43	-5.00e-03	-3.55e-03	-0.14	1.43e-04	-2.50e-05	0.0
116	54	8.56e-04	-8.59e-03	-0.15	2.05e-04	5.17e-06	0.0
116	58	6.35e-04	-9.34e-03	-0.15	2.03e-04	4.01e-06	0.0
116	70	-1.70e-04	-3.79e-03	-0.15	1.88e-04	-9.63e-06	0.0
116	72	-6.58e-05	-3.33e-03	-0.14	1.66e-04	-4.15e-06	0.0
117	2	-3.88e-04	-5.13e-03	-0.20	2.55e-04	-2.06e-05	0.0
117	11	-3.22e-03	-3.39e-03	-0.14	1.52e-04	-2.03e-05	0.0
117	22	4.10e-04	-6.57e-03	-0.15	1.90e-04	-3.18e-06	0.0
117	26	2.74e-04	-6.99e-03	-0.15	1.89e-04	-3.76e-06	0.0
117	43	-5.03e-03	-3.46e-03	-0.14	1.46e-04	-2.74e-05	0.0
117	54	7.40e-04	-8.51e-03	-0.15	2.06e-04	0.0	0.0
117	58	5.23e-04	-9.19e-03	-0.15	2.05e-04	-1.36e-06	0.0
117	70	-2.83e-04	-3.85e-03	-0.15	1.91e-04	-1.51e-05	0.0
117	72	-1.75e-04	-3.38e-03	-0.14	1.68e-04	-9.44e-06	0.0
118	2	-4.47e-04	-5.30e-03	-0.20	2.63e-04	-2.34e-05	0.0
118	11	-3.24e-03	-3.41e-03	-0.14	1.57e-04	-2.11e-05	0.0
118	22	3.53e-04	-6.59e-03	-0.15	1.94e-04	-5.89e-06	0.0
118	26	2.19e-04	-6.97e-03	-0.15	1.93e-04	-6.42e-06	0.0
118	43	-5.03e-03	-3.42e-03	-0.14	1.52e-04	-2.72e-05	0.0
118	54	6.81e-04	-8.49e-03	-0.15	2.09e-04	-3.22e-06	0.0
118	58	4.66e-04	-9.10e-03	-0.15	2.09e-04	-4.06e-06	0.0
118	70	-3.29e-04	-3.98e-03	-0.15	1.97e-04	-1.72e-05	0.0
118	72	-2.27e-04	-3.49e-03	-0.14	1.73e-04	-1.19e-05	0.0
119	2	-3.63e-04	-5.49e-03	-0.20	2.72e-04	-1.91e-05	0.0
119	11	-3.17e-03	-3.43e-03	-0.14	1.63e-04	-1.77e-05	0.0
119	22	3.82e-04	-6.62e-03	-0.15	1.98e-04	-4.38e-06	0.0
119	26	2.49e-04	-6.96e-03	-0.15	1.98e-04	-4.88e-06	0.0

119	43	-4.94e-03	-3.41e-03	-0.14	1.58e-04	-2.31e-05	0.0
119	54	7.04e-04	-8.47e-03	-0.15	2.13e-04	-1.97e-06	0.0
119	58	4.91e-04	-9.01e-03	-0.15	2.13e-04	-2.76e-06	0.0
119	70	-2.67e-04	-4.11e-03	-0.15	2.04e-04	-1.40e-05	0.0
119	72	-1.84e-04	-3.60e-03	-0.15	1.78e-04	-9.69e-06	0.0
120	2	-1.90e-04	-5.58e-03	-0.20	2.76e-04	-1.03e-05	0.0
120	11	-3.04e-03	-3.42e-03	-0.14	1.67e-04	-1.04e-05	0.0
120	22	4.64e-04	-6.60e-03	-0.15	2.00e-04	0.0	0.0
120	26	3.32e-04	-6.90e-03	-0.15	2.00e-04	0.0	0.0
120	43	-4.80e-03	-3.35e-03	-0.14	1.63e-04	-1.44e-05	0.0
120	54	7.78e-04	-8.42e-03	-0.15	2.15e-04	1.81e-06	0.0
120	58	5.66e-04	-8.90e-03	-0.15	2.14e-04	1.08e-06	0.0
120	70	-1.38e-04	-4.18e-03	-0.15	2.07e-04	-7.51e-06	0.0
120	72	-7.95e-05	-3.66e-03	-0.15	1.81e-04	-4.41e-06	0.0
121	2	5.86e-05	6.97e-03	-0.24	-3.46e-04	3.27e-06	0.0
121	17	3.04e-03	5.52e-03	-0.17	-2.26e-04	-2.21e-06	0.0
121	31	-7.74e-05	7.50e-03	-0.18	-2.49e-04	-2.25e-06	0.0
121	35	-2.84e-04	7.36e-03	-0.18	-2.50e-04	-2.10e-06	0.0
121	49	4.82e-03	6.19e-03	-0.17	-2.31e-04	-4.05e-06	0.0
121	63	-1.34e-04	9.34e-03	-0.18	-2.68e-04	-4.21e-06	0.0
121	67	-4.65e-04	9.12e-03	-0.18	-2.68e-04	-3.99e-06	0.0
121	70	4.27e-05	5.22e-03	-0.18	-2.59e-04	2.38e-06	0.0
121	72	2.38e-05	4.55e-03	-0.17	-2.26e-04	1.36e-06	0.0
122	1	7.56e-05	-4.57e-03	-0.19	2.26e-04	3.41e-06	0.0
122	2	1.94e-05	-5.55e-03	-0.20	2.75e-04	0.0	0.0
122	5	2.98e-03	-2.14e-03	-0.14	1.67e-04	6.93e-06	0.0
122	22	5.63e-04	-6.50e-03	-0.15	1.98e-04	4.91e-06	0.0
122	26	4.33e-04	-6.76e-03	-0.15	1.98e-04	4.58e-06	0.0
122	37	4.71e-03	-1.35e-03	-0.14	1.64e-04	9.53e-06	0.0
122	54	8.63e-04	-8.27e-03	-0.15	2.13e-04	6.30e-06	0.0
122	58	6.56e-04	-8.67e-03	-0.15	2.12e-04	5.78e-06	0.0
122	69	5.54e-05	-3.50e-03	-0.14	1.74e-04	2.48e-06	0.0
122	70	1.79e-05	-4.16e-03	-0.15	2.06e-04	0.0	0.0
122	71	5.54e-05	-3.50e-03	-0.14	1.74e-04	2.48e-06	0.0
122	72	4.79e-05	-3.63e-03	-0.15	1.80e-04	2.07e-06	0.0
123	1	1.18e-04	-4.48e-03	-0.19	2.22e-04	5.62e-06	0.0
123	2	8.89e-05	-5.45e-03	-0.20	2.70e-04	3.99e-06	0.0
123	5	2.97e-03	-2.17e-03	-0.14	1.64e-04	6.25e-06	0.0
123	24	-1.08e-03	-6.57e-03	-0.15	1.95e-04	4.60e-06	0.0
123	26	4.57e-04	-6.58e-03	-0.15	1.95e-04	5.83e-06	0.0
123	37	4.67e-03	-1.43e-03	-0.14	1.60e-04	7.42e-06	0.0
123	56	-1.77e-03	-8.42e-03	-0.15	2.09e-04	4.83e-06	0.0
123	58	6.74e-04	-8.43e-03	-0.15	2.09e-04	6.77e-06	0.0
123	69	8.84e-05	-3.43e-03	-0.14	1.71e-04	4.20e-06	0.0
123	70	6.90e-05	-4.08e-03	-0.15	2.03e-04	3.11e-06	0.0
123	71	8.84e-05	-3.43e-03	-0.14	1.71e-04	4.20e-06	0.0
123	72	8.45e-05	-3.56e-03	-0.15	1.77e-04	3.99e-06	0.0
124	1	6.14e-05	-4.41e-03	-0.19	2.19e-04	3.00e-06	0.0
124	2	3.72e-05	-5.37e-03	-0.20	2.67e-04	1.69e-06	0.0
124	5	2.89e-03	-2.22e-03	-0.14	1.62e-04	2.44e-06	0.0
124	26	4.13e-04	-6.41e-03	-0.15	1.92e-04	3.65e-06	0.0
124	28	-9.82e-04	-6.24e-03	-0.15	1.92e-04	3.85e-06	0.0
124	37	4.56e-03	-1.54e-03	-0.14	1.58e-04	2.42e-06	0.0
124	58	6.30e-04	-8.20e-03	-0.15	2.06e-04	4.52e-06	0.0
124	60	-1.59e-03	-7.93e-03	-0.15	2.06e-04	4.77e-06	0.0
124	69	4.55e-05	-3.38e-03	-0.14	1.68e-04	2.22e-06	0.0
124	70	2.94e-05	-4.02e-03	-0.15	2.00e-04	1.34e-06	0.0
124	71	4.55e-05	-3.38e-03	-0.14	1.68e-04	2.22e-06	0.0
124	72	4.23e-05	-3.51e-03	-0.15	1.75e-04	2.04e-06	0.0
125	2	-6.60e-05	-5.37e-03	-0.20	2.67e-04	-3.15e-06	0.0
125	11	-2.85e-03	-2.88e-03	-0.14	1.61e-04	0.0	0.0
125	26	3.44e-04	-6.30e-03	-0.15	1.92e-04	0.0	0.0
125	28	-1.04e-03	-6.17e-03	-0.15	1.91e-04	0.0	0.0
125	43	-4.52e-03	-2.58e-03	-0.14	1.57e-04	0.0	0.0
125	58	5.64e-04	-8.01e-03	-0.15	2.06e-04	1.64e-06	0.0
125	60	-1.64e-03	-7.81e-03	-0.15	2.05e-04	2.16e-06	0.0
125	70	-4.89e-05	-4.02e-03	-0.15	2.00e-04	-2.33e-06	0.0
125	72	-3.26e-05	-3.51e-03	-0.15	1.75e-04	-1.51e-06	0.0
126	2	-1.33e-04	-5.45e-03	-0.20	2.70e-04	-6.26e-06	0.0
126	11	-2.91e-03	-2.82e-03	-0.14	1.63e-04	-2.72e-06	0.0
126	26	2.99e-04	-6.23e-03	-0.15	1.93e-04	-1.51e-06	0.0
126	28	-1.09e-03	-6.14e-03	-0.15	1.93e-04	-1.16e-06	0.0
126	43	-4.57e-03	-2.47e-03	-0.14	1.59e-04	-2.33e-06	0.0
126	58	5.22e-04	-7.88e-03	-0.15	2.07e-04	0.0	0.0
126	60	-1.68e-03	-7.74e-03	-0.15	2.06e-04	0.0	0.0
126	70	-9.96e-05	-4.08e-03	-0.15	2.02e-04	-4.68e-06	0.0

126	72	-8.19e-05	-3.56e-03	-0.15	1.77e-04	-3.83e-06	0.0
127	2	-1.02e-04	-5.54e-03	-0.20	2.74e-04	-4.74e-06	0.0
127	11	-2.90e-03	-2.79e-03	-0.14	1.66e-04	-1.93e-06	0.0
127	26	3.14e-04	-6.17e-03	-0.15	1.95e-04	0.0	0.0
127	28	-1.08e-03	-6.13e-03	-0.15	1.95e-04	0.0	0.0
127	43	-4.57e-03	-2.38e-03	-0.14	1.62e-04	-1.49e-06	0.0
127	58	5.36e-04	-7.74e-03	-0.15	2.08e-04	0.0	0.0
127	60	-1.67e-03	-7.68e-03	-0.15	2.07e-04	0.0	0.0
127	70	-7.67e-05	-4.15e-03	-0.15	2.06e-04	-3.56e-06	0.0
127	72	-6.50e-05	-3.62e-03	-0.15	1.80e-04	-3.01e-06	0.0
128	2	-1.71e-05	-5.57e-03	-0.20	2.76e-04	0.0	0.0
128	11	-2.85e-03	-2.74e-03	-0.14	1.68e-04	0.0	0.0
128	24	-1.16e-03	-6.09e-03	-0.15	1.96e-04	1.28e-06	0.0
128	26	3.61e-04	-6.09e-03	-0.15	1.95e-04	1.38e-06	0.0
128	43	-4.52e-03	-2.28e-03	-0.14	1.64e-04	0.0	0.0
128	56	-1.83e-03	-7.61e-03	-0.15	2.08e-04	2.26e-06	0.0
128	58	5.80e-04	-7.61e-03	-0.15	2.08e-04	2.41e-06	0.0
128	70	-1.27e-05	-4.17e-03	-0.15	2.07e-04	0.0	0.0
128	72	-1.05e-05	-3.64e-03	-0.15	1.81e-04	0.0	0.0
129	1	2.88e-06	-4.57e-03	-0.19	2.27e-04	0.0	0.0
129	2	2.74e-06	-5.57e-03	-0.20	2.76e-04	0.0	0.0
129	5	2.84e-03	-2.75e-03	-0.14	1.67e-04	0.0	0.0
129	32	-4.96e-04	-6.10e-03	-0.15	1.96e-04	-2.07e-06	0.0
129	36	-3.69e-04	-6.11e-03	-0.15	1.96e-04	-1.82e-06	0.0
129	37	4.52e-03	-2.31e-03	-0.14	1.63e-04	0.0	0.0
129	64	-7.91e-04	-7.62e-03	-0.15	2.08e-04	-3.42e-06	0.0
129	68	-5.89e-04	-7.64e-03	-0.15	2.08e-04	-3.05e-06	0.0
129	69	2.28e-06	-3.51e-03	-0.14	1.74e-04	0.0	0.0
129	70	2.19e-06	-4.17e-03	-0.15	2.07e-04	0.0	0.0
129	71	2.28e-06	-3.51e-03	-0.14	1.74e-04	0.0	0.0
129	72	2.26e-06	-3.64e-03	-0.15	1.81e-04	0.0	0.0
130	2	1.01e-04	-5.50e-03	-0.20	2.73e-04	5.35e-06	0.0
130	5	2.89e-03	-2.80e-03	-0.14	1.65e-04	2.43e-06	0.0
130	32	-4.36e-04	-6.13e-03	-0.15	1.95e-04	1.02e-06	0.0
130	36	-3.11e-04	-6.18e-03	-0.15	1.95e-04	1.09e-06	0.0
130	37	4.56e-03	-2.40e-03	-0.14	1.60e-04	2.12e-06	0.0
130	64	-7.31e-04	-7.70e-03	-0.15	2.08e-04	0.0	0.0
130	68	-5.31e-04	-7.78e-03	-0.15	2.08e-04	0.0	0.0
130	70	7.62e-05	-4.12e-03	-0.15	2.04e-04	4.01e-06	0.0
130	72	6.45e-05	-3.59e-03	-0.15	1.79e-04	3.38e-06	0.0
131	2	9.90e-05	-5.39e-03	-0.20	2.68e-04	5.40e-06	0.0
131	5	2.87e-03	-2.83e-03	-0.14	1.62e-04	1.81e-06	0.0
131	34	1.07e-03	-6.13e-03	-0.15	1.92e-04	0.0	0.0
131	36	-3.14e-04	-6.23e-03	-0.15	1.92e-04	1.08e-06	0.0
131	37	4.54e-03	-2.49e-03	-0.14	1.58e-04	1.22e-06	0.0
131	66	1.67e-03	-7.74e-03	-0.15	2.05e-04	0.0	0.0
131	68	-5.31e-04	-7.90e-03	-0.15	2.06e-04	0.0	0.0
131	70	7.40e-05	-4.04e-03	-0.15	2.01e-04	4.03e-06	0.0
131	72	5.85e-05	-3.53e-03	-0.15	1.75e-04	3.17e-06	0.0
132	2	1.08e-05	-5.34e-03	-0.20	2.66e-04	1.22e-06	0.0
132	4	1.70e-05	-4.31e-03	-0.16	2.14e-04	1.44e-06	0.0
132	11	-2.83e-03	-2.28e-03	-0.14	1.61e-04	0.0	0.0
132	34	1.02e-03	-6.17e-03	-0.15	1.91e-04	-1.93e-06	0.0
132	36	-3.71e-04	-6.32e-03	-0.15	1.91e-04	-1.61e-06	0.0
132	43	-4.50e-03	-1.64e-03	-0.14	1.58e-04	1.38e-06	0.0
132	66	1.62e-03	-7.83e-03	-0.15	2.04e-04	-2.99e-06	0.0
132	68	-5.84e-04	-8.06e-03	-0.15	2.05e-04	-2.52e-06	0.0
132	69	-8.83e-06	-3.37e-03	-0.14	1.68e-04	0.0	0.0
132	70	7.21e-06	-4.00e-03	-0.15	1.99e-04	0.0	0.0
132	71	-8.83e-06	-3.37e-03	-0.14	1.68e-04	0.0	0.0
132	72	-5.62e-06	-3.49e-03	-0.15	1.74e-04	0.0	0.0
133	1	-1.03e-04	-4.42e-03	-0.19	2.20e-04	-4.48e-06	0.0
133	2	-8.20e-05	-5.38e-03	-0.20	2.67e-04	-3.15e-06	0.0
133	11	-2.93e-03	-2.19e-03	-0.14	1.62e-04	-4.05e-06	0.0
133	34	9.64e-04	-6.27e-03	-0.15	1.92e-04	-4.37e-06	0.0
133	36	-4.36e-04	-6.46e-03	-0.15	1.92e-04	-4.79e-06	0.0
133	43	-4.61e-03	-1.49e-03	-0.14	1.58e-04	-4.40e-06	0.0
133	66	1.58e-03	-7.97e-03	-0.15	2.06e-04	-4.97e-06	0.0
133	68	-6.48e-04	-8.27e-03	-0.15	2.06e-04	-5.60e-06	0.0
133	69	-7.69e-05	-3.39e-03	-0.14	1.69e-04	-3.35e-06	0.0
133	70	-6.33e-05	-4.03e-03	-0.15	2.00e-04	-2.46e-06	0.0
133	71	-7.69e-05	-3.39e-03	-0.14	1.69e-04	-3.35e-06	0.0
133	72	-7.42e-05	-3.52e-03	-0.15	1.75e-04	-3.17e-06	0.0
134	1	-1.23e-04	-4.51e-03	-0.19	2.24e-04	-5.38e-06	0.0
134	2	-8.97e-05	-5.48e-03	-0.20	2.72e-04	-3.32e-06	0.0
134	11	-2.99e-03	-2.16e-03	-0.14	1.65e-04	-6.93e-06	0.0

134	32	-5.84e-04	-6.41e-03	-0.15	1.96e-04	-5.92e-06	0.0
134	36	-4.56e-04	-6.64e-03	-0.15	1.95e-04	-5.68e-06	0.0
134	43	-4.70e-03	-1.39e-03	-0.14	1.61e-04	-8.64e-06	0.0
134	64	-8.75e-04	-8.15e-03	-0.15	2.10e-04	-7.01e-06	0.0
134	68	-6.71e-04	-8.52e-03	-0.15	2.09e-04	-6.63e-06	0.0
134	69	-9.24e-05	-3.46e-03	-0.14	1.71e-04	-4.01e-06	0.0
134	70	-6.99e-05	-4.11e-03	-0.15	2.03e-04	-2.64e-06	0.0
134	71	-9.24e-05	-3.46e-03	-0.14	1.71e-04	-4.01e-06	0.0
134	72	-8.79e-05	-3.59e-03	-0.15	1.78e-04	-3.73e-06	0.0
135	2	3.72e-05	-5.57e-03	-0.20	2.75e-04	2.96e-06	0.0
135	4	5.19e-05	-4.49e-03	-0.16	2.22e-04	3.54e-06	0.0
135	11	-2.97e-03	-2.13e-03	-0.14	1.68e-04	-5.97e-06	0.0
135	32	-5.31e-04	-6.54e-03	-0.15	1.99e-04	-3.35e-06	0.0
135	36	-4.00e-04	-6.82e-03	-0.15	1.98e-04	-2.96e-06	0.0
135	43	-4.71e-03	-1.31e-03	-0.14	1.65e-04	-9.13e-06	0.0
135	64	-8.32e-04	-8.33e-03	-0.15	2.13e-04	-4.92e-06	0.0
135	68	-6.23e-04	-8.76e-03	-0.15	2.13e-04	-4.31e-06	0.0
135	70	2.43e-05	-4.18e-03	-0.15	2.06e-04	2.03e-06	0.0
135	71	-2.32e-05	-3.52e-03	-0.14	1.74e-04	0.0	0.0
135	72	-1.37e-05	-3.65e-03	-0.15	1.81e-04	0.0	0.0
136	2	1.82e-04	-5.58e-03	-0.20	2.76e-04	1.01e-05	0.0
136	10	3.04e-03	-4.98e-03	-0.14	1.79e-04	1.03e-05	0.0
136	32	-4.63e-04	-6.60e-03	-0.15	1.99e-04	0.0	0.0
136	36	-3.31e-04	-6.90e-03	-0.15	1.99e-04	0.0	0.0
136	42	4.79e-03	-5.82e-03	-0.14	1.82e-04	1.43e-05	0.0
136	64	-7.73e-04	-8.42e-03	-0.15	2.14e-04	-2.11e-06	0.0
136	68	-5.61e-04	-8.89e-03	-0.15	2.13e-04	-1.37e-06	0.0
136	70	1.32e-04	-4.18e-03	-0.15	2.07e-04	7.31e-06	0.0
136	72	7.47e-05	-3.66e-03	-0.15	1.81e-04	4.25e-06	0.0
137	2	2.43e-04	-5.56e-03	-0.20	2.75e-04	1.31e-05	0.0
137	10	3.08e-03	-4.99e-03	-0.14	1.79e-04	1.25e-05	0.0
137	32	-4.35e-04	-6.62e-03	-0.15	1.99e-04	1.31e-06	0.0
137	36	-3.02e-04	-6.93e-03	-0.15	1.99e-04	1.79e-06	0.0
137	42	4.84e-03	-5.85e-03	-0.14	1.81e-04	1.68e-05	0.0
137	64	-7.49e-04	-8.45e-03	-0.15	2.14e-04	0.0	0.0
137	68	-5.36e-04	-8.94e-03	-0.15	2.13e-04	0.0	0.0
137	70	1.78e-04	-4.17e-03	-0.15	2.06e-04	9.57e-06	0.0
137	72	1.12e-04	-3.64e-03	-0.15	1.80e-04	6.09e-06	0.0
138	2	4.20e-04	-5.41e-03	-0.20	2.68e-04	2.19e-05	0.0
138	5	3.21e-03	-3.41e-03	-0.14	1.61e-04	1.97e-05	0.0
138	32	-3.49e-04	-6.60e-03	-0.15	1.96e-04	5.52e-06	0.0
138	36	-2.16e-04	-6.96e-03	-0.15	1.96e-04	6.03e-06	0.0
138	37	4.99e-03	-3.40e-03	-0.14	1.55e-04	2.53e-05	0.0
138	64	-6.70e-04	-8.48e-03	-0.15	2.11e-04	2.92e-06	0.0
138	68	-4.57e-04	-9.04e-03	-0.15	2.10e-04	3.73e-06	0.0
138	70	3.09e-04	-4.05e-03	-0.15	2.01e-04	1.61e-05	0.0
138	72	2.16e-04	-3.55e-03	-0.15	1.76e-04	1.13e-05	0.0
139	2	4.53e-04	-5.21e-03	-0.20	2.59e-04	2.37e-05	0.0
139	5	3.24e-03	-3.38e-03	-0.14	1.55e-04	2.15e-05	0.0
139	32	-3.50e-04	-6.57e-03	-0.15	1.91e-04	5.61e-06	0.0
139	36	-2.16e-04	-6.97e-03	-0.15	1.91e-04	6.15e-06	0.0
139	37	5.04e-03	-3.42e-03	-0.14	1.49e-04	2.80e-05	0.0
139	64	-6.74e-04	-8.49e-03	-0.15	2.07e-04	2.88e-06	0.0
139	68	-4.60e-04	-9.12e-03	-0.15	2.06e-04	3.75e-06	0.0
139	70	3.32e-04	-3.91e-03	-0.15	1.94e-04	1.74e-05	0.0
139	72	2.25e-04	-3.43e-03	-0.14	1.70e-04	1.18e-05	0.0
140	2	3.51e-04	-5.06e-03	-0.20	2.52e-04	1.88e-05	0.0
140	10	3.20e-03	-4.97e-03	-0.14	1.63e-04	1.89e-05	0.0
140	32	-4.33e-04	-6.56e-03	-0.15	1.88e-04	1.57e-06	0.0
140	36	-2.97e-04	-7.00e-03	-0.15	1.87e-04	2.20e-06	0.0
140	42	5.02e-03	-5.99e-03	-0.14	1.64e-04	2.62e-05	0.0
140	64	-7.59e-04	-8.53e-03	-0.15	2.04e-04	-1.22e-06	0.0
140	68	-5.42e-04	-9.23e-03	-0.15	2.03e-04	0.0	0.0
140	70	2.54e-04	-3.80e-03	-0.15	1.89e-04	1.36e-05	0.0
140	72	1.45e-04	-3.34e-03	-0.14	1.66e-04	7.93e-06	0.0
141	2	1.91e-04	-5.02e-03	-0.20	2.50e-04	1.10e-05	0.0
141	4	2.06e-04	-4.04e-03	-0.15	2.01e-04	1.15e-05	0.0
141	10	3.15e-03	-5.05e-03	-0.14	1.61e-04	1.62e-05	0.0
141	32	-5.54e-04	-6.63e-03	-0.15	1.88e-04	-4.35e-06	0.0
141	36	-4.14e-04	-7.11e-03	-0.15	1.87e-04	-3.55e-06	0.0
141	42	5.00e-03	-6.13e-03	-0.14	1.62e-04	2.52e-05	0.0
141	64	-8.84e-04	-8.64e-03	-0.15	2.04e-04	-7.31e-06	0.0
141	68	-6.61e-04	-9.41e-03	-0.15	2.03e-04	-6.02e-06	0.0
141	70	1.33e-04	-3.77e-03	-0.15	1.88e-04	7.73e-06	0.0
141	72	2.92e-05	-3.32e-03	-0.14	1.65e-04	2.28e-06	0.0
142	1	-1.17e-04	-4.27e-03	-0.19	2.12e-04	-4.76e-06	0.0

142	2	6.79e-05	-5.10e-03	-0.19	2.54e-04	5.01e-06	0.0
142	11	-3.29e-03	-1.35e-03	-0.15	1.63e-04	-2.17e-05	0.0
142	12	-3.07e-03	-3.59e-03	-0.15	1.79e-04	-2.20e-05	0.0
142	36	-5.06e-04	-7.30e-03	-0.15	1.90e-04	-8.23e-06	0.0
142	43	-5.18e-03	-2.27e-04	-0.15	1.63e-04	-3.26e-05	0.0
142	44	-4.84e-03	-3.79e-03	-0.15	1.88e-04	-3.29e-05	0.0
142	68	-7.55e-04	-9.67e-03	-0.15	2.07e-04	-1.09e-05	0.0
142	69	-8.32e-05	-3.28e-03	-0.14	1.63e-04	-3.32e-06	0.0
142	70	3.99e-05	-3.83e-03	-0.15	1.90e-04	3.19e-06	0.0
142	71	-8.32e-05	-3.28e-03	-0.14	1.63e-04	-3.32e-06	0.0
142	72	-5.86e-05	-3.39e-03	-0.14	1.68e-04	-2.02e-06	0.0
143	1	-1.27e-04	-4.42e-03	-0.19	2.20e-04	-5.31e-06	0.0
143	2	6.06e-05	-5.27e-03	-0.19	2.62e-04	4.64e-06	0.0
143	11	-3.35e-03	-1.40e-03	-0.15	1.71e-04	-2.50e-05	0.0
143	12	-3.13e-03	-3.70e-03	-0.15	1.87e-04	-2.47e-05	0.0
143	36	-5.19e-04	-7.54e-03	-0.15	1.97e-04	-8.29e-06	0.0
143	43	-5.28e-03	-2.33e-04	-0.15	1.73e-04	-3.75e-05	0.0
143	44	-4.92e-03	-3.89e-03	-0.15	1.98e-04	-3.71e-05	0.0
143	68	-7.70e-04	-9.99e-03	-0.15	2.13e-04	-1.10e-05	0.0
143	69	-9.12e-05	-3.39e-03	-0.14	1.69e-04	-3.74e-06	0.0
143	70	3.40e-05	-3.96e-03	-0.15	1.97e-04	2.90e-06	0.0
143	71	-9.12e-05	-3.39e-03	-0.14	1.69e-04	-3.74e-06	0.0
143	72	-6.62e-05	-3.51e-03	-0.14	1.74e-04	-2.41e-06	0.0
144	2	1.22e-04	-5.39e-03	-0.19	2.68e-04	7.65e-06	0.0
144	4	1.54e-04	-4.33e-03	-0.15	2.15e-04	9.07e-06	0.0
144	11	-3.34e-03	-1.45e-03	-0.15	1.77e-04	-2.42e-05	0.0
144	12	-3.11e-03	-3.78e-03	-0.15	1.93e-04	-2.37e-05	0.0
144	36	-4.80e-04	-7.70e-03	-0.15	2.01e-04	-6.43e-06	0.0
144	43	-5.27e-03	-2.63e-04	-0.15	1.80e-04	-3.73e-05	0.0
144	44	-4.92e-03	-3.98e-03	-0.15	2.05e-04	-3.67e-05	0.0
144	68	-7.32e-04	-0.01	-0.15	2.18e-04	-9.17e-06	0.0
144	70	8.00e-05	-4.05e-03	-0.15	2.01e-04	5.15e-06	0.0
144	71	-5.23e-05	-3.48e-03	-0.14	1.73e-04	-1.83e-06	0.0
144	72	-2.59e-05	-3.59e-03	-0.14	1.78e-04	0.0	0.0
145	2	-3.08e-04	-4.13e-03	-0.18	2.05e-04	-1.67e-05	0.0
145	6	2.89e-03	-2.92e-03	-0.14	1.50e-04	1.42e-05	0.0
145	8	-3.20e-03	-4.68e-03	-0.13	1.29e-04	-2.36e-05	0.0
145	26	4.57e-04	-6.77e-03	-0.14	1.56e-04	0.0	0.0
145	38	4.63e-03	-3.08e-03	-0.14	1.60e-04	2.53e-05	0.0
145	40	-5.04e-03	-5.86e-03	-0.13	1.26e-04	-3.49e-05	0.0
145	58	7.72e-04	-9.19e-03	-0.14	1.70e-04	1.89e-06	0.0
145	70	-2.21e-04	-3.10e-03	-0.14	1.54e-04	-1.21e-05	0.0
145	72	-1.05e-04	-2.75e-03	-0.14	1.37e-04	-5.99e-06	0.0
146	2	-1.80e-04	-4.00e-03	-0.18	1.99e-04	-1.04e-05	0.0
146	4	-1.99e-04	-3.21e-03	-0.14	1.60e-04	-1.12e-05	0.0
146	5	3.10e-03	-6.22e-04	-0.14	1.30e-04	1.74e-05	0.0
146	6	2.94e-03	-2.84e-03	-0.14	1.43e-04	1.71e-05	0.0
146	26	5.40e-04	-6.56e-03	-0.14	1.51e-04	3.58e-06	0.0
146	37	4.93e-03	5.15e-04	-0.14	1.30e-04	2.79e-05	0.0
146	38	4.68e-03	-3.01e-03	-0.14	1.52e-04	2.75e-05	0.0
146	58	8.56e-04	-8.91e-03	-0.14	1.65e-04	6.04e-06	0.0
146	70	-1.25e-04	-3.00e-03	-0.14	1.49e-04	-7.30e-06	0.0
146	72	-2.17e-05	-2.66e-03	-0.14	1.32e-04	-1.88e-06	0.0
147	2	-1.66e-04	-3.91e-03	-0.18	1.94e-04	-9.62e-06	0.0
147	4	-1.86e-04	-3.14e-03	-0.14	1.56e-04	-1.04e-05	0.0
147	5	3.06e-03	-6.34e-04	-0.14	1.25e-04	1.53e-05	0.0
147	6	2.91e-03	-2.80e-03	-0.14	1.38e-04	1.55e-05	0.0
147	26	5.40e-04	-6.38e-03	-0.14	1.48e-04	3.96e-06	0.0
147	37	4.87e-03	4.58e-04	-0.14	1.24e-04	2.45e-05	0.0
147	38	4.62e-03	-2.98e-03	-0.14	1.46e-04	2.47e-05	0.0
147	58	8.53e-04	-8.66e-03	-0.14	1.61e-04	6.37e-06	0.0
147	70	-1.15e-04	-2.93e-03	-0.14	1.46e-04	-6.76e-06	0.0
147	72	-1.73e-05	-2.59e-03	-0.14	1.29e-04	-1.63e-06	0.0
148	2	-2.23e-04	-3.89e-03	-0.18	1.94e-04	-1.23e-05	0.0
148	4	-2.27e-04	-3.13e-03	-0.14	1.56e-04	-1.24e-05	0.0
148	11	-3.05e-03	-2.71e-03	-0.13	1.14e-04	-1.57e-05	0.0
148	22	5.90e-04	-5.78e-03	-0.14	1.47e-04	1.98e-06	0.0
148	26	4.89e-04	-6.25e-03	-0.14	1.47e-04	1.42e-06	0.0
148	43	-4.82e-03	-2.84e-03	-0.13	1.09e-04	-2.35e-05	0.0
148	54	9.62e-04	-7.72e-03	-0.14	1.61e-04	4.56e-06	0.0
148	58	8.00e-04	-8.46e-03	-0.14	1.60e-04	3.66e-06	0.0
148	70	-1.59e-04	-2.92e-03	-0.14	1.45e-04	-8.82e-06	0.0
148	72	-6.27e-05	-2.57e-03	-0.14	1.28e-04	-3.80e-06	0.0
149	2	-2.90e-04	-3.94e-03	-0.18	1.96e-04	-1.54e-05	0.0
149	11	-3.06e-03	-2.66e-03	-0.13	1.16e-04	-1.66e-05	0.0
149	22	5.29e-04	-5.73e-03	-0.14	1.48e-04	0.0	0.0

149	26	4.30e-04	-6.15e-03	-0.14	1.47e-04	-1.42e-06	0.0
149	43	-4.81e-03	-2.74e-03	-0.13	1.11e-04	-2.33e-05	0.0
149	54	8.97e-04	-7.63e-03	-0.14	1.62e-04	1.45e-06	0.0
149	58	7.38e-04	-8.30e-03	-0.14	1.61e-04	0.0	0.0
149	70	-2.10e-04	-2.96e-03	-0.14	1.47e-04	-1.12e-05	0.0
149	72	-1.17e-04	-2.60e-03	-0.14	1.29e-04	-6.39e-06	0.0
150	2	-3.10e-04	-4.05e-03	-0.19	2.01e-04	-1.63e-05	0.0
150	11	-3.05e-03	-2.64e-03	-0.13	1.20e-04	-1.60e-05	0.0
150	22	4.95e-04	-5.71e-03	-0.14	1.50e-04	-2.53e-06	0.0
150	26	3.97e-04	-6.09e-03	-0.14	1.50e-04	-2.93e-06	0.0
150	43	-4.78e-03	-2.67e-03	-0.13	1.15e-04	-2.16e-05	0.0
150	54	8.59e-04	-7.56e-03	-0.14	1.63e-04	0.0	0.0
150	58	7.02e-04	-8.17e-03	-0.14	1.63e-04	0.0	0.0
150	70	-2.27e-04	-3.04e-03	-0.14	1.51e-04	-1.19e-05	0.0
150	72	-1.41e-04	-2.66e-03	-0.14	1.32e-04	-7.50e-06	0.0
151	2	-2.53e-04	-4.16e-03	-0.19	2.06e-04	-1.34e-05	0.0
151	11	-2.99e-03	-2.62e-03	-0.13	1.23e-04	-1.32e-05	0.0
151	22	5.07e-04	-5.70e-03	-0.14	1.53e-04	-1.89e-06	0.0
151	26	4.10e-04	-6.04e-03	-0.14	1.52e-04	-2.25e-06	0.0
151	43	-4.70e-03	-2.60e-03	-0.13	1.19e-04	-1.78e-05	0.0
151	54	8.64e-04	-7.51e-03	-0.14	1.65e-04	0.0	0.0
151	58	7.09e-04	-8.04e-03	-0.14	1.65e-04	0.0	0.0
151	70	-1.85e-04	-3.12e-03	-0.14	1.55e-04	-9.80e-06	0.0
151	72	-1.15e-04	-2.73e-03	-0.14	1.35e-04	-6.15e-06	0.0
152	2	-1.54e-04	-4.21e-03	-0.19	2.09e-04	-8.38e-06	0.0
152	11	-2.91e-03	-2.57e-03	-0.14	1.26e-04	-8.36e-06	0.0
152	22	5.46e-04	-5.66e-03	-0.14	1.54e-04	0.0	0.0
152	26	4.50e-04	-5.96e-03	-0.14	1.53e-04	0.0	0.0
152	43	-4.60e-03	-2.52e-03	-0.13	1.22e-04	-1.17e-05	0.0
152	54	8.96e-04	-7.43e-03	-0.14	1.66e-04	1.67e-06	0.0
152	58	7.43e-04	-7.91e-03	-0.14	1.66e-04	1.18e-06	0.0
152	70	-1.12e-04	-3.16e-03	-0.14	1.57e-04	-6.10e-06	0.0
152	72	-5.91e-05	-2.76e-03	-0.14	1.37e-04	-3.32e-06	0.0
153	2	-3.59e-04	7.04e-03	-0.24	-3.49e-04	-1.80e-05	0.0
153	20	-3.30e-03	3.17e-03	-0.17	-2.10e-04	-1.04e-05	0.0
153	29	9.38e-04	7.49e-03	-0.18	-2.53e-04	-1.77e-05	0.0
153	31	-3.76e-04	7.68e-03	-0.18	-2.53e-04	-1.74e-05	0.0
153	52	-5.10e-03	2.43e-03	-0.17	-2.05e-04	-9.30e-06	0.0
153	61	1.64e-03	9.30e-03	-0.18	-2.72e-04	-2.05e-05	0.0
153	63	-4.47e-04	9.61e-03	-0.18	-2.72e-04	-2.01e-05	0.0
153	70	-2.72e-04	5.27e-03	-0.18	-2.62e-04	-1.36e-05	0.0
153	72	-2.58e-04	4.59e-03	-0.17	-2.28e-04	-1.30e-05	0.0
154	2	-3.05e-05	-4.21e-03	-0.19	2.09e-04	-2.13e-06	0.0
154	4	-4.41e-05	-3.39e-03	-0.15	1.68e-04	-2.74e-06	0.0
154	5	2.84e-03	-1.33e-03	-0.14	1.27e-04	4.50e-06	0.0
154	22	5.97e-04	-5.58e-03	-0.14	1.53e-04	2.70e-06	0.0
154	26	5.03e-04	-5.83e-03	-0.14	1.53e-04	2.46e-06	0.0
154	37	4.51e-03	-5.51e-04	-0.14	1.24e-04	6.71e-06	0.0
154	54	9.38e-04	-7.30e-03	-0.14	1.65e-04	3.83e-06	0.0
154	58	7.87e-04	-7.70e-03	-0.14	1.65e-04	3.46e-06	0.0
154	69	2.04e-05	-2.66e-03	-0.14	1.32e-04	0.0	0.0
154	70	-2.01e-05	-3.15e-03	-0.14	1.57e-04	-1.46e-06	0.0
154	71	2.04e-05	-2.66e-03	-0.14	1.32e-04	0.0	0.0
154	72	1.23e-05	-2.76e-03	-0.14	1.37e-04	0.0	0.0
155	1	5.98e-05	-3.43e-03	-0.18	1.70e-04	2.70e-06	0.0
155	2	2.20e-05	-4.16e-03	-0.19	2.07e-04	0.0	0.0
155	5	2.83e-03	-1.39e-03	-0.14	1.25e-04	3.91e-06	0.0
155	24	-1.02e-03	-5.69e-03	-0.14	1.51e-04	2.11e-06	0.0
155	26	5.18e-04	-5.69e-03	-0.14	1.51e-04	3.28e-06	0.0
155	37	4.47e-03	-6.69e-04	-0.14	1.22e-04	5.02e-06	0.0
155	58	7.97e-04	-7.49e-03	-0.14	1.63e-04	4.04e-06	0.0
155	60	-1.49e-03	-7.15e-03	-0.14	1.63e-04	2.44e-06	0.0
155	69	4.37e-05	-2.63e-03	-0.14	1.31e-04	1.96e-06	0.0
155	70	1.85e-05	-3.12e-03	-0.14	1.55e-04	0.0	0.0
155	71	4.37e-05	-2.63e-03	-0.14	1.31e-04	1.96e-06	0.0
155	72	3.86e-05	-2.73e-03	-0.14	1.35e-04	1.68e-06	0.0
156	1	3.64e-05	-3.39e-03	-0.18	1.69e-04	1.70e-06	0.0
156	2	8.73e-06	-4.12e-03	-0.19	2.05e-04	0.0	0.0
156	10	2.78e-03	-2.98e-03	-0.14	1.35e-04	1.65e-06	0.0
156	26	4.97e-04	-5.55e-03	-0.14	1.50e-04	2.40e-06	0.0
156	28	-9.30e-04	-5.38e-03	-0.14	1.49e-04	2.12e-06	0.0
156	42	4.41e-03	-3.21e-03	-0.14	1.38e-04	1.82e-06	0.0
156	58	7.75e-04	-7.29e-03	-0.14	1.61e-04	3.08e-06	0.0
156	60	-1.49e-03	-7.02e-03	-0.14	1.61e-04	2.65e-06	0.0
156	69	2.63e-05	-2.60e-03	-0.14	1.29e-04	1.22e-06	0.0
156	70	7.79e-06	-3.09e-03	-0.14	1.54e-04	0.0	0.0

156	71	2.63e-05	-2.60e-03	-0.14	1.29e-04	1.22e-06	0.0
156	72	2.26e-05	-2.70e-03	-0.14	1.34e-04	1.02e-06	0.0
157	2	-3.70e-05	-4.12e-03	-0.19	2.05e-04	-1.81e-06	0.0
157	4	-3.71e-05	-3.32e-03	-0.15	1.65e-04	-1.84e-06	0.0
157	11	-2.75e-03	-2.12e-03	-0.14	1.23e-04	0.0	0.0
157	26	4.62e-04	-5.44e-03	-0.14	1.49e-04	0.0	0.0
157	28	-9.57e-04	-5.31e-03	-0.14	1.49e-04	0.0	0.0
157	43	-4.36e-03	-1.83e-03	-0.14	1.20e-04	0.0	0.0
157	58	7.40e-04	-7.11e-03	-0.14	1.61e-04	1.47e-06	0.0
157	60	-1.51e-03	-6.91e-03	-0.14	1.60e-04	1.81e-06	0.0
157	70	-2.71e-05	-3.09e-03	-0.14	1.54e-04	-1.32e-06	0.0
157	72	-1.37e-05	-2.70e-03	-0.14	1.34e-04	0.0	0.0
158	2	-6.79e-05	-4.16e-03	-0.19	2.07e-04	-3.17e-06	0.0
158	11	-2.77e-03	-2.04e-03	-0.14	1.24e-04	0.0	0.0
158	26	4.37e-04	-5.34e-03	-0.14	1.50e-04	0.0	0.0
158	28	-9.78e-04	-5.26e-03	-0.14	1.49e-04	0.0	0.0
158	43	-4.38e-03	-1.70e-03	-0.14	1.21e-04	0.0	0.0
158	58	7.16e-04	-6.95e-03	-0.14	1.61e-04	0.0	0.0
158	60	-1.53e-03	-6.82e-03	-0.14	1.60e-04	0.0	0.0
158	70	-5.06e-05	-3.12e-03	-0.14	1.55e-04	-2.36e-06	0.0
158	72	-3.86e-05	-2.72e-03	-0.14	1.35e-04	-1.78e-06	0.0
159	2	-5.32e-05	-4.20e-03	-0.19	2.09e-04	-2.40e-06	0.0
159	11	-2.76e-03	-1.97e-03	-0.14	1.26e-04	0.0	0.0
159	26	4.41e-04	-5.26e-03	-0.14	1.50e-04	0.0	0.0
159	28	-9.73e-04	-5.22e-03	-0.14	1.50e-04	0.0	0.0
159	43	-4.38e-03	-1.58e-03	-0.14	1.23e-04	0.0	0.0
159	58	7.18e-04	-6.79e-03	-0.14	1.61e-04	0.0	0.0
159	60	-1.53e-03	-6.73e-03	-0.14	1.61e-04	1.16e-06	0.0
159	70	-3.98e-05	-3.15e-03	-0.14	1.56e-04	-1.80e-06	0.0
159	72	-3.23e-05	-2.75e-03	-0.14	1.37e-04	-1.45e-06	0.0
160	2	-1.52e-05	-4.22e-03	-0.19	2.09e-04	0.0	0.0
160	11	-2.74e-03	-1.91e-03	-0.14	1.27e-04	0.0	0.0
160	24	-1.05e-03	-5.17e-03	-0.14	1.50e-04	1.05e-06	0.0
160	28	-9.54e-04	-5.17e-03	-0.14	1.50e-04	1.15e-06	0.0
160	43	-4.35e-03	-1.47e-03	-0.14	1.24e-04	0.0	0.0
160	56	-1.66e-03	-6.65e-03	-0.14	1.61e-04	1.83e-06	0.0
160	60	-1.51e-03	-6.65e-03	-0.14	1.61e-04	2.00e-06	0.0
160	70	-1.13e-05	-3.16e-03	-0.14	1.57e-04	0.0	0.0
160	72	-9.31e-06	-2.76e-03	-0.14	1.37e-04	0.0	0.0
161	2	-6.42e-06	-4.22e-03	-0.19	2.09e-04	0.0	0.0
161	11	-2.74e-03	-1.89e-03	-0.14	1.27e-04	0.0	0.0
161	32	-5.63e-04	-5.18e-03	-0.14	1.50e-04	-1.35e-06	0.0
161	36	-4.71e-04	-5.19e-03	-0.14	1.50e-04	-1.26e-06	0.0
161	43	-4.35e-03	-1.43e-03	-0.14	1.24e-04	1.16e-06	0.0
161	64	-8.93e-04	-6.66e-03	-0.14	1.61e-04	-2.12e-06	0.0
161	68	-7.46e-04	-6.68e-03	-0.14	1.61e-04	-1.95e-06	0.0
161	70	-4.73e-06	-3.16e-03	-0.14	1.57e-04	0.0	0.0
161	72	-4.03e-06	-2.76e-03	-0.14	1.37e-04	0.0	0.0
162	2	3.86e-05	-4.18e-03	-0.19	2.08e-04	2.20e-06	0.0
162	5	2.75e-03	-2.00e-03	-0.14	1.25e-04	0.0	0.0
162	34	9.65e-04	-5.23e-03	-0.14	1.50e-04	0.0	0.0
162	36	-4.48e-04	-5.28e-03	-0.14	1.50e-04	0.0	0.0
162	37	4.36e-03	-1.62e-03	-0.14	1.22e-04	0.0	0.0
162	66	1.52e-03	-6.75e-03	-0.14	1.61e-04	-1.54e-06	0.0
162	68	-7.24e-04	-6.84e-03	-0.14	1.61e-04	0.0	0.0
162	70	2.90e-05	-3.13e-03	-0.14	1.56e-04	1.65e-06	0.0
162	72	2.27e-05	-2.74e-03	-0.14	1.36e-04	1.29e-06	0.0
163	2	3.97e-05	-4.13e-03	-0.19	2.06e-04	2.44e-06	0.0
163	5	2.75e-03	-2.06e-03	-0.14	1.24e-04	0.0	0.0
163	34	9.63e-04	-5.27e-03	-0.14	1.49e-04	0.0	0.0
163	36	-4.51e-04	-5.37e-03	-0.14	1.49e-04	0.0	0.0
163	37	4.36e-03	-1.74e-03	-0.14	1.20e-04	0.0	0.0
163	66	1.52e-03	-6.84e-03	-0.14	1.60e-04	-1.46e-06	0.0
163	68	-7.27e-04	-6.99e-03	-0.14	1.61e-04	0.0	0.0
163	70	2.95e-05	-3.10e-03	-0.14	1.54e-04	1.81e-06	0.0
163	72	1.94e-05	-2.70e-03	-0.14	1.35e-04	1.22e-06	0.0
164	1	-1.99e-05	-3.38e-03	-0.18	1.68e-04	0.0	0.0
164	2	1.78e-06	-4.11e-03	-0.19	2.04e-04	0.0	0.0
164	11	-2.75e-03	-1.52e-03	-0.14	1.24e-04	0.0	0.0
164	34	9.40e-04	-5.33e-03	-0.14	1.49e-04	-1.54e-06	0.0
164	36	-4.80e-04	-5.47e-03	-0.14	1.49e-04	-1.35e-06	0.0
164	43	-4.37e-03	-8.94e-04	-0.14	1.21e-04	0.0	0.0
164	66	1.50e-03	-6.94e-03	-0.14	1.60e-04	-2.23e-06	0.0
164	68	-7.54e-04	-7.16e-03	-0.14	1.61e-04	-1.96e-06	0.0
164	69	-1.39e-05	-2.59e-03	-0.14	1.29e-04	0.0	0.0
164	70	0.0	-3.08e-03	-0.14	1.53e-04	0.0	0.0

164	71	-1.39e-05	-2.59e-03	-0.14	1.29e-04	0.0	0.0
164	72	-1.10e-05	-2.69e-03	-0.14	1.34e-04	0.0	0.0
165	1	-6.08e-05	-3.39e-03	-0.18	1.69e-04	-2.41e-06	0.0
165	2	-3.40e-05	-4.13e-03	-0.19	2.05e-04	0.0	0.0
165	11	-2.81e-03	-1.43e-03	-0.14	1.24e-04	-2.67e-06	0.0
165	34	9.20e-04	-5.41e-03	-0.14	1.50e-04	-2.33e-06	0.0
165	36	-5.11e-04	-5.60e-03	-0.14	1.50e-04	-2.83e-06	0.0
165	43	-4.44e-03	-7.43e-04	-0.14	1.21e-04	-3.17e-06	0.0
165	66	1.49e-03	-7.06e-03	-0.14	1.61e-04	-2.68e-06	0.0
165	68	-7.85e-04	-7.36e-03	-0.14	1.61e-04	-3.44e-06	0.0
165	69	-4.48e-05	-2.60e-03	-0.14	1.30e-04	-1.75e-06	0.0
165	70	-2.69e-05	-3.09e-03	-0.14	1.54e-04	0.0	0.0
165	71	-4.48e-05	-2.60e-03	-0.14	1.30e-04	-1.75e-06	0.0
165	72	-4.12e-05	-2.70e-03	-0.14	1.34e-04	-1.53e-06	0.0
166	1	-6.26e-05	-3.44e-03	-0.18	1.71e-04	-2.42e-06	0.0
166	2	-2.03e-05	-4.18e-03	-0.19	2.07e-04	0.0	0.0
166	11	-2.84e-03	-1.37e-03	-0.14	1.26e-04	-4.33e-06	0.0
166	32	-6.10e-04	-5.51e-03	-0.14	1.51e-04	-3.29e-06	0.0
166	36	-5.17e-04	-5.74e-03	-0.14	1.51e-04	-3.11e-06	0.0
166	43	-4.49e-03	-6.21e-04	-0.14	1.23e-04	-5.84e-06	0.0
166	64	-9.44e-04	-7.21e-03	-0.14	1.63e-04	-4.18e-06	0.0
166	68	-7.95e-04	-7.57e-03	-0.14	1.63e-04	-3.89e-06	0.0
166	69	-4.57e-05	-2.64e-03	-0.14	1.31e-04	-1.73e-06	0.0
166	70	-1.74e-05	-3.13e-03	-0.14	1.55e-04	0.0	0.0
166	71	-4.57e-05	-2.64e-03	-0.14	1.31e-04	-1.73e-06	0.0
166	72	-4.00e-05	-2.74e-03	-0.14	1.36e-04	-1.40e-06	0.0
167	2	6.31e-05	-4.22e-03	-0.19	2.09e-04	4.15e-06	0.0
167	4	7.21e-05	-3.40e-03	-0.15	1.68e-04	4.46e-06	0.0
167	11	-2.84e-03	-1.30e-03	-0.14	1.27e-04	-4.14e-06	0.0
167	32	-5.81e-04	-5.61e-03	-0.14	1.53e-04	-1.87e-06	0.0
167	36	-4.86e-04	-5.88e-03	-0.14	1.53e-04	-1.61e-06	0.0
167	43	-4.51e-03	-4.99e-04	-0.14	1.24e-04	-6.77e-06	0.0
167	64	-9.22e-04	-7.35e-03	-0.14	1.65e-04	-3.15e-06	0.0
167	68	-7.70e-04	-7.78e-03	-0.14	1.65e-04	-2.73e-06	0.0
167	70	4.43e-05	-3.16e-03	-0.14	1.56e-04	2.95e-06	0.0
167	72	6.23e-06	-2.76e-03	-0.14	1.37e-04	0.0	0.0
168	2	1.47e-04	-4.21e-03	-0.19	2.08e-04	8.25e-06	0.0
168	10	2.90e-03	-4.09e-03	-0.14	1.36e-04	8.30e-06	0.0
168	32	-5.46e-04	-5.66e-03	-0.14	1.53e-04	0.0	0.0
168	36	-4.50e-04	-5.96e-03	-0.14	1.53e-04	0.0	0.0
168	42	4.59e-03	-4.93e-03	-0.14	1.39e-04	1.17e-05	0.0
168	64	-8.93e-04	-7.43e-03	-0.14	1.65e-04	-1.80e-06	0.0
168	68	-7.40e-04	-7.91e-03	-0.14	1.65e-04	-1.31e-06	0.0
168	70	1.07e-04	-3.16e-03	-0.14	1.56e-04	6.00e-06	0.0
168	72	5.50e-05	-2.76e-03	-0.14	1.37e-04	3.24e-06	0.0
169	2	1.83e-04	-4.20e-03	-0.19	2.08e-04	9.98e-06	0.0
169	10	2.93e-03	-4.11e-03	-0.14	1.36e-04	9.73e-06	0.0
169	32	-5.31e-04	-5.68e-03	-0.14	1.53e-04	0.0	0.0
169	36	-4.35e-04	-5.99e-03	-0.14	1.53e-04	0.0	0.0
169	42	4.62e-03	-4.96e-03	-0.14	1.38e-04	1.34e-05	0.0
169	64	-8.81e-04	-7.46e-03	-0.14	1.65e-04	-1.24e-06	0.0
169	68	-7.27e-04	-7.96e-03	-0.14	1.65e-04	0.0	0.0
169	70	1.33e-04	-3.15e-03	-0.14	1.56e-04	7.28e-06	0.0
169	72	7.54e-05	-2.75e-03	-0.14	1.36e-04	4.23e-06	0.0
170	2	2.87e-04	-4.11e-03	-0.19	2.04e-04	1.51e-05	0.0
170	5	3.02e-03	-2.62e-03	-0.13	1.22e-04	1.46e-05	0.0
170	32	-4.91e-04	-5.70e-03	-0.14	1.51e-04	2.43e-06	0.0
170	36	-3.93e-04	-6.06e-03	-0.14	1.51e-04	2.80e-06	0.0
170	37	4.73e-03	-2.62e-03	-0.13	1.17e-04	1.96e-05	0.0
170	64	-8.48e-04	-7.53e-03	-0.14	1.64e-04	0.0	0.0
170	68	-6.93e-04	-8.09e-03	-0.14	1.63e-04	0.0	0.0
170	70	2.10e-04	-3.08e-03	-0.14	1.53e-04	1.11e-05	0.0
170	72	1.33e-04	-2.70e-03	-0.14	1.34e-04	7.08e-06	0.0
171	2	3.19e-04	-3.99e-03	-0.19	1.98e-04	1.68e-05	0.0
171	5	3.06e-03	-2.63e-03	-0.13	1.18e-04	1.67e-05	0.0
171	32	-4.93e-04	-5.72e-03	-0.14	1.49e-04	2.37e-06	0.0
171	36	-3.95e-04	-6.11e-03	-0.14	1.48e-04	2.79e-06	0.0
171	37	4.79e-03	-2.68e-03	-0.13	1.13e-04	2.27e-05	0.0
171	64	-8.55e-04	-7.59e-03	-0.14	1.62e-04	0.0	0.0
171	68	-6.99e-04	-8.22e-03	-0.14	1.61e-04	0.0	0.0
171	70	2.33e-04	-2.99e-03	-0.14	1.49e-04	1.23e-05	0.0
171	72	1.43e-04	-2.63e-03	-0.14	1.31e-04	7.61e-06	0.0
172	2	2.78e-04	-3.90e-03	-0.18	1.94e-04	1.49e-05	0.0
172	5	3.06e-03	-2.66e-03	-0.13	1.15e-04	1.68e-05	0.0
172	32	-5.39e-04	-5.74e-03	-0.14	1.47e-04	0.0	0.0
172	36	-4.39e-04	-6.18e-03	-0.14	1.46e-04	0.0	0.0

172	37	4.82e-03	-2.76e-03	-0.13	1.10e-04	2.40e-05	0.0
172	64	-9.05e-04	-7.66e-03	-0.14	1.61e-04	-2.28e-06	0.0
172	68	-7.45e-04	-8.36e-03	-0.14	1.60e-04	-1.48e-06	0.0
172	70	2.01e-04	-2.93e-03	-0.14	1.46e-04	1.08e-05	0.0
172	72	1.05e-04	-2.58e-03	-0.14	1.28e-04	5.81e-06	0.0
173	2	2.08e-04	-3.88e-03	-0.18	1.93e-04	1.17e-05	0.0
173	4	2.18e-04	-3.12e-03	-0.14	1.55e-04	1.20e-05	0.0
173	10	3.05e-03	-4.30e-03	-0.13	1.24e-04	1.61e-05	0.0
173	12	-2.85e-03	-2.79e-03	-0.14	1.36e-04	-1.26e-05	0.0
173	36	-4.98e-04	-6.29e-03	-0.14	1.46e-04	-2.20e-06	0.0
173	42	4.84e-03	-5.36e-03	-0.13	1.25e-04	2.45e-05	0.0
173	44	-4.54e-03	-2.99e-03	-0.14	1.43e-04	-2.10e-05	0.0
173	68	-8.07e-04	-8.54e-03	-0.14	1.60e-04	-4.48e-06	0.0
173	70	1.48e-04	-2.91e-03	-0.14	1.45e-04	8.32e-06	0.0
173	72	4.96e-05	-2.57e-03	-0.14	1.28e-04	3.17e-06	0.0
174	2	1.74e-04	-3.93e-03	-0.18	1.95e-04	1.00e-05	0.0
174	4	1.94e-04	-3.15e-03	-0.14	1.57e-04	1.08e-05	0.0
174	11	-3.08e-03	-6.18e-04	-0.14	1.26e-04	-1.63e-05	0.0
174	12	-2.92e-03	-2.81e-03	-0.14	1.39e-04	-1.61e-05	0.0
174	36	-5.33e-04	-6.45e-03	-0.14	1.48e-04	-3.46e-06	0.0
174	43	-4.89e-03	4.92e-04	-0.14	1.26e-04	-2.61e-05	0.0
174	44	-4.64e-03	-2.99e-03	-0.14	1.47e-04	-2.58e-05	0.0
174	68	-8.43e-04	-8.77e-03	-0.14	1.62e-04	-5.85e-06	0.0
174	70	1.21e-04	-2.95e-03	-0.14	1.47e-04	7.06e-06	0.0
174	72	2.01e-05	-2.61e-03	-0.14	1.30e-04	1.76e-06	0.0
175	2	2.31e-04	-4.04e-03	-0.18	2.01e-04	1.29e-05	0.0
175	4	2.41e-04	-3.24e-03	-0.14	1.61e-04	1.32e-05	0.0
175	10	3.14e-03	-4.58e-03	-0.13	1.27e-04	2.06e-05	0.0
175	12	-2.92e-03	-2.87e-03	-0.14	1.45e-04	-1.62e-05	0.0
175	36	-5.02e-04	-6.65e-03	-0.14	1.53e-04	-2.07e-06	0.0
175	42	4.97e-03	-5.73e-03	-0.13	1.25e-04	3.15e-05	0.0
175	44	-4.66e-03	-3.04e-03	-0.14	1.54e-04	-2.70e-05	0.0
175	68	-8.14e-04	-9.03e-03	-0.14	1.66e-04	-4.50e-06	0.0
175	70	1.63e-04	-3.03e-03	-0.14	1.51e-04	9.15e-06	0.0
175	72	5.39e-05	-2.69e-03	-0.14	1.34e-04	3.44e-06	0.0
176	2	3.20e-04	-4.12e-03	-0.18	2.05e-04	1.73e-05	0.0
176	10	3.21e-03	-4.68e-03	-0.13	1.28e-04	2.40e-05	0.0
176	12	-2.88e-03	-2.92e-03	-0.14	1.50e-04	-1.40e-05	0.0
176	36	-4.43e-04	-6.78e-03	-0.14	1.56e-04	0.0	0.0
176	42	5.05e-03	-5.86e-03	-0.13	1.26e-04	3.53e-05	0.0
176	44	-4.62e-03	-3.09e-03	-0.14	1.60e-04	-2.50e-05	0.0
176	68	-7.53e-04	-9.20e-03	-0.14	1.70e-04	-1.53e-06	0.0
176	70	2.30e-04	-3.10e-03	-0.14	1.54e-04	1.24e-05	0.0
176	72	1.12e-04	-2.75e-03	-0.14	1.37e-04	6.31e-06	0.0
177	2	-4.43e-04	-2.68e-03	-0.17	1.33e-04	-2.32e-05	0.0
177	6	2.72e-03	-1.94e-03	-0.13	1.00e-04	7.65e-06	0.0
177	8	-3.16e-03	-3.75e-03	-0.13	8.34e-05	-2.59e-05	0.0
177	26	4.72e-04	-5.75e-03	-0.13	1.06e-04	-5.06e-06	0.0
177	38	4.42e-03	-2.07e-03	-0.14	1.08e-04	1.74e-05	0.0
177	40	-4.92e-03	-4.93e-03	-0.12	8.18e-05	-3.58e-05	0.0
177	58	8.50e-04	-8.12e-03	-0.13	1.17e-04	-2.77e-06	0.0
177	70	-3.24e-04	-2.01e-03	-0.13	1.00e-04	-1.70e-05	0.0
177	72	-1.99e-04	-1.79e-03	-0.13	8.89e-05	-1.05e-05	0.0
178	2	-2.78e-04	-2.60e-03	-0.17	1.29e-04	-1.50e-05	0.0
178	6	2.80e-03	-1.90e-03	-0.13	9.56e-05	1.20e-05	0.0
178	8	-3.03e-03	-3.62e-03	-0.13	8.24e-05	-1.99e-05	0.0
178	26	5.77e-04	-5.59e-03	-0.13	1.03e-04	0.0	0.0
178	38	4.50e-03	-2.05e-03	-0.14	1.03e-04	2.14e-05	0.0
178	40	-4.79e-03	-4.76e-03	-0.13	8.19e-05	-2.93e-05	0.0
178	58	9.56e-04	-7.90e-03	-0.13	1.15e-04	2.49e-06	0.0
178	70	-2.00e-04	-1.95e-03	-0.13	9.71e-05	-1.08e-05	0.0
178	72	-9.21e-05	-1.73e-03	-0.13	8.60e-05	-5.22e-06	0.0
179	2	-2.13e-04	-2.55e-03	-0.18	1.27e-04	-1.17e-05	0.0
179	4	-2.23e-04	-2.05e-03	-0.14	1.02e-04	-1.20e-05	0.0
179	6	2.81e-03	-1.89e-03	-0.13	9.23e-05	1.24e-05	0.0
179	8	-2.97e-03	-3.50e-03	-0.13	8.18e-05	-1.64e-05	0.0
179	26	6.09e-04	-5.44e-03	-0.13	1.01e-04	2.02e-06	0.0
179	38	4.48e-03	-2.06e-03	-0.14	9.87e-05	2.09e-05	0.0
179	40	-4.70e-03	-4.59e-03	-0.13	8.22e-05	-2.49e-05	0.0
179	58	9.85e-04	-7.68e-03	-0.13	1.12e-04	4.34e-06	0.0
179	70	-1.52e-04	-1.91e-03	-0.13	9.52e-05	-8.41e-06	0.0
179	72	-5.48e-05	-1.69e-03	-0.13	8.41e-05	-3.33e-06	0.0
180	2	-2.13e-04	-2.53e-03	-0.18	1.26e-04	-1.16e-05	0.0
180	4	-2.18e-04	-2.04e-03	-0.14	1.01e-04	-1.17e-05	0.0
180	6	2.76e-03	-1.91e-03	-0.13	9.07e-05	1.01e-05	0.0
180	11	-2.94e-03	-1.87e-03	-0.13	7.27e-05	-1.48e-05	0.0

180	26	5.94e-04	-5.31e-03	-0.13	1.00e-04	1.24e-06	0.0
180	38	4.42e-03	-2.09e-03	-0.13	9.64e-05	1.75e-05	0.0
180	43	-4.65e-03	-2.01e-03	-0.13	6.80e-05	-2.21e-05	0.0
180	58	9.68e-04	-7.49e-03	-0.13	1.12e-04	3.34e-06	0.0
180	70	-1.53e-04	-1.90e-03	-0.13	9.47e-05	-8.35e-06	0.0
180	72	-6.21e-05	-1.68e-03	-0.13	8.35e-05	-3.63e-06	0.0
181	2	-2.32e-04	-2.56e-03	-0.18	1.28e-04	-1.24e-05	0.0
181	6	2.70e-03	-1.96e-03	-0.13	9.04e-05	7.13e-06	0.0
181	11	-2.92e-03	-1.80e-03	-0.13	7.40e-05	-1.42e-05	0.0
181	26	5.64e-04	-5.21e-03	-0.13	1.01e-04	0.0	0.0
181	38	4.34e-03	-2.16e-03	-0.13	9.57e-05	1.34e-05	0.0
181	43	-4.61e-03	-1.90e-03	-0.13	6.98e-05	-2.04e-05	0.0
181	58	9.34e-04	-7.32e-03	-0.13	1.12e-04	1.72e-06	0.0
181	70	-1.68e-04	-1.92e-03	-0.13	9.57e-05	-8.98e-06	0.0
181	72	-8.36e-05	-1.69e-03	-0.13	8.42e-05	-4.62e-06	0.0
182	2	-2.30e-04	-2.62e-03	-0.18	1.30e-04	-1.22e-05	0.0
182	11	-2.90e-03	-1.75e-03	-0.13	7.61e-05	-1.28e-05	0.0
182	22	6.06e-04	-4.74e-03	-0.13	1.02e-04	0.0	0.0
182	26	5.45e-04	-5.13e-03	-0.13	1.02e-04	-1.09e-06	0.0
182	43	-4.56e-03	-1.80e-03	-0.13	7.23e-05	-1.80e-05	0.0
182	54	1.01e-03	-6.56e-03	-0.13	1.14e-04	1.00e-06	0.0
182	58	9.10e-04	-7.17e-03	-0.13	1.13e-04	0.0	0.0
182	70	-1.68e-04	-1.96e-03	-0.14	9.77e-05	-8.88e-06	0.0
182	72	-9.28e-05	-1.72e-03	-0.13	8.58e-05	-5.01e-06	0.0
183	2	-1.89e-04	-2.68e-03	-0.18	1.33e-04	-1.01e-05	0.0
183	11	-2.85e-03	-1.70e-03	-0.13	7.83e-05	-1.04e-05	0.0
183	22	6.09e-04	-4.70e-03	-0.13	1.03e-04	0.0	0.0
183	26	5.48e-04	-5.04e-03	-0.13	1.03e-04	0.0	0.0
183	43	-4.49e-03	-1.70e-03	-0.13	7.48e-05	-1.45e-05	0.0
183	54	1.00e-03	-6.48e-03	-0.13	1.14e-04	0.0	0.0
183	58	9.07e-04	-7.01e-03	-0.13	1.14e-04	0.0	0.0
183	70	-1.38e-04	-2.01e-03	-0.14	9.97e-05	-7.36e-06	0.0
183	72	-7.62e-05	-1.76e-03	-0.13	8.75e-05	-4.14e-06	0.0
184	2	-1.28e-04	-2.71e-03	-0.18	1.35e-04	-6.99e-06	0.0
184	11	-2.79e-03	-1.64e-03	-0.13	7.96e-05	-7.04e-06	0.0
184	22	6.27e-04	-4.66e-03	-0.13	1.04e-04	0.0	0.0
184	26	5.67e-04	-4.96e-03	-0.13	1.03e-04	0.0	0.0
184	43	-4.42e-03	-1.59e-03	-0.13	7.64e-05	-1.01e-05	0.0
184	54	1.02e-03	-6.39e-03	-0.13	1.15e-04	1.51e-06	0.0
184	58	9.21e-04	-6.87e-03	-0.13	1.14e-04	1.21e-06	0.0
184	70	-9.28e-05	-2.03e-03	-0.14	1.01e-04	-5.08e-06	0.0
184	72	-4.43e-05	-1.78e-03	-0.13	8.84e-05	-2.54e-06	0.0
185	2	-5.64e-04	7.28e-03	-0.24	-3.60e-04	-2.88e-05	0.0
185	15	-3.53e-03	4.87e-03	-0.17	-2.35e-04	-2.29e-05	0.0
185	31	-5.33e-04	7.99e-03	-0.18	-2.61e-04	-2.58e-05	0.0
185	33	1.03e-03	7.98e-03	-0.18	-2.61e-04	-2.39e-05	0.0
185	47	-5.38e-03	5.06e-03	-0.17	-2.39e-04	-2.43e-05	0.0
185	63	-6.13e-04	0.01	-0.18	-2.82e-04	-2.90e-05	0.0
185	65	1.87e-03	9.99e-03	-0.18	-2.82e-04	-2.60e-05	0.0
185	70	-4.27e-04	5.45e-03	-0.18	-2.69e-04	-2.18e-05	0.0
185	72	-4.03e-04	4.74e-03	-0.17	-2.35e-04	-2.06e-05	0.0
186	2	-4.98e-05	-2.72e-03	-0.18	1.35e-04	-3.03e-06	0.0
186	4	-5.92e-05	-2.19e-03	-0.14	1.09e-04	-3.44e-06	0.0
186	5	2.73e-03	-4.03e-04	-0.13	8.10e-05	3.37e-06	0.0
186	22	6.53e-04	-4.58e-03	-0.13	1.03e-04	1.58e-06	0.0
186	26	5.94e-04	-4.83e-03	-0.13	1.03e-04	1.44e-06	0.0
186	37	4.33e-03	3.66e-04	-0.13	7.85e-05	5.32e-06	0.0
186	54	1.03e-03	-6.27e-03	-0.13	1.14e-04	2.47e-06	0.0
186	58	9.41e-04	-6.67e-03	-0.13	1.14e-04	2.25e-06	0.0
186	70	-3.50e-05	-2.03e-03	-0.14	1.01e-04	-2.15e-06	0.0
186	71	5.83e-06	-1.72e-03	-0.13	8.53e-05	0.0	0.0
186	72	-2.33e-06	-1.78e-03	-0.13	8.85e-05	0.0	0.0
187	1	3.15e-05	-2.22e-03	-0.17	1.11e-04	1.31e-06	0.0
187	2	-9.74e-06	-2.70e-03	-0.18	1.34e-04	0.0	0.0
187	5	2.71e-03	-4.86e-04	-0.13	8.02e-05	2.71e-06	0.0
187	26	6.02e-04	-4.71e-03	-0.13	1.02e-04	1.91e-06	0.0
187	28	-8.69e-04	-4.49e-03	-0.13	1.02e-04	0.0	0.0
187	37	4.30e-03	2.27e-04	-0.13	7.75e-05	3.76e-06	0.0
187	58	9.45e-04	-6.48e-03	-0.13	1.13e-04	2.50e-06	0.0
187	60	-1.39e-03	-6.14e-03	-0.13	1.13e-04	0.0	0.0
187	69	2.19e-05	-1.70e-03	-0.13	8.47e-05	0.0	0.0
187	70	-5.62e-06	-2.02e-03	-0.14	1.00e-04	0.0	0.0
187	71	2.19e-05	-1.70e-03	-0.13	8.47e-05	0.0	0.0
187	72	1.64e-05	-1.77e-03	-0.13	8.79e-05	0.0	0.0
188	1	2.31e-05	-2.20e-03	-0.17	1.10e-04	1.02e-06	0.0
188	2	-6.08e-06	-2.68e-03	-0.18	1.33e-04	0.0	0.0

188	10	2.68e-03	-2.06e-03	-0.13	8.92e-05	1.27e-06	0.0
188	26	5.92e-04	-4.58e-03	-0.13	1.02e-04	1.49e-06	0.0
188	28	-8.66e-04	-4.42e-03	-0.13	1.02e-04	1.16e-06	0.0
188	42	4.26e-03	-2.27e-03	-0.13	9.20e-05	1.56e-06	0.0
188	58	9.31e-04	-6.29e-03	-0.13	1.12e-04	1.95e-06	0.0
188	60	-1.39e-03	-6.02e-03	-0.13	1.12e-04	1.44e-06	0.0
188	69	1.60e-05	-1.69e-03	-0.13	8.42e-05	0.0	0.0
188	70	-3.48e-06	-2.01e-03	-0.14	9.99e-05	0.0	0.0
188	71	1.60e-05	-1.69e-03	-0.13	8.42e-05	0.0	0.0
188	72	1.21e-05	-1.75e-03	-0.13	8.73e-05	0.0	0.0
189	2	-2.33e-05	-2.68e-03	-0.18	1.33e-04	-1.21e-06	0.0
189	4	-2.61e-05	-2.16e-03	-0.14	1.07e-04	-1.35e-06	0.0
189	11	-2.65e-03	-1.22e-03	-0.13	7.91e-05	0.0	0.0
189	26	5.72e-04	-4.47e-03	-0.13	1.01e-04	0.0	0.0
189	28	-8.77e-04	-4.35e-03	-0.13	1.01e-04	0.0	0.0
189	43	-4.22e-03	-9.49e-04	-0.13	7.62e-05	0.0	0.0
189	58	9.10e-04	-6.11e-03	-0.13	1.11e-04	0.0	0.0
189	60	-1.39e-03	-5.91e-03	-0.13	1.11e-04	1.26e-06	0.0
189	70	-1.69e-05	-2.01e-03	-0.14	9.98e-05	0.0	0.0
189	72	-4.77e-06	-1.75e-03	-0.13	8.73e-05	0.0	0.0
190	2	-3.67e-05	-2.69e-03	-0.18	1.34e-04	-1.72e-06	0.0
190	11	-2.66e-03	-1.14e-03	-0.13	7.95e-05	0.0	0.0
190	26	5.57e-04	-4.37e-03	-0.13	1.01e-04	0.0	0.0
190	28	-8.87e-04	-4.29e-03	-0.13	1.01e-04	0.0	0.0
190	43	-4.22e-03	-8.04e-04	-0.13	7.67e-05	0.0	0.0
190	58	8.95e-04	-5.94e-03	-0.13	1.11e-04	0.0	0.0
190	60	-1.40e-03	-5.81e-03	-0.13	1.11e-04	0.0	0.0
190	70	-2.72e-05	-2.02e-03	-0.14	1.00e-04	-1.28e-06	0.0
190	72	-1.79e-05	-1.76e-03	-0.13	8.77e-05	0.0	0.0
191	2	-3.02e-05	-2.71e-03	-0.18	1.35e-04	-1.33e-06	0.0
191	11	-2.65e-03	-1.05e-03	-0.13	8.02e-05	0.0	0.0
191	26	5.56e-04	-4.27e-03	-0.13	1.01e-04	0.0	0.0
191	28	-8.86e-04	-4.23e-03	-0.13	1.01e-04	0.0	0.0
191	43	-4.21e-03	-6.62e-04	-0.13	7.74e-05	0.0	0.0
191	58	8.92e-04	-5.77e-03	-0.13	1.11e-04	0.0	0.0
191	60	-1.40e-03	-5.71e-03	-0.13	1.11e-04	1.03e-06	0.0
191	70	-2.25e-05	-2.03e-03	-0.14	1.01e-04	0.0	0.0
191	72	-1.70e-05	-1.78e-03	-0.13	8.83e-05	0.0	0.0
192	2	-1.41e-05	-2.72e-03	-0.18	1.35e-04	0.0	0.0
192	11	-2.65e-03	-9.75e-04	-0.13	8.07e-05	0.0	0.0
192	24	-9.37e-04	-4.18e-03	-0.13	1.01e-04	0.0	0.0
192	28	-8.80e-04	-4.18e-03	-0.13	1.01e-04	0.0	0.0
192	43	-4.20e-03	-5.40e-04	-0.13	7.80e-05	1.24e-06	0.0
192	56	-1.48e-03	-5.63e-03	-0.13	1.10e-04	1.25e-06	0.0
192	60	-1.39e-03	-5.63e-03	-0.13	1.10e-04	1.35e-06	0.0
192	70	-1.05e-05	-2.04e-03	-0.14	1.01e-04	0.0	0.0
192	72	-8.63e-06	-1.78e-03	-0.13	8.85e-05	0.0	0.0
193	2	-1.11e-05	-2.72e-03	-0.18	1.35e-04	0.0	0.0
193	11	-2.64e-03	-9.58e-04	-0.13	8.07e-05	0.0	0.0
193	32	-6.33e-04	-4.19e-03	-0.13	1.01e-04	0.0	0.0
193	36	-5.76e-04	-4.20e-03	-0.13	1.01e-04	0.0	0.0
193	43	-4.20e-03	-5.12e-04	-0.13	7.80e-05	1.32e-06	0.0
193	64	-1.00e-03	-5.64e-03	-0.13	1.11e-04	-1.18e-06	0.0
193	68	-9.11e-04	-5.66e-03	-0.13	1.10e-04	-1.08e-06	0.0
193	70	-8.26e-06	-2.04e-03	-0.14	1.01e-04	0.0	0.0
193	72	-7.21e-06	-1.78e-03	-0.13	8.85e-05	0.0	0.0
194	2	9.43e-06	-2.70e-03	-0.18	1.35e-04	0.0	0.0
194	4	1.00e-05	-2.18e-03	-0.14	1.08e-04	0.0	0.0
194	5	2.64e-03	-1.08e-03	-0.13	7.99e-05	0.0	0.0
194	34	8.74e-04	-4.25e-03	-0.13	1.01e-04	0.0	0.0
194	36	-5.67e-04	-4.30e-03	-0.13	1.01e-04	0.0	0.0
194	37	4.20e-03	-7.15e-04	-0.13	7.70e-05	-1.15e-06	0.0
194	66	1.39e-03	-5.74e-03	-0.13	1.11e-04	-1.50e-06	0.0
194	68	-9.03e-04	-5.83e-03	-0.13	1.11e-04	0.0	0.0
194	70	7.04e-06	-2.03e-03	-0.14	1.01e-04	0.0	0.0
194	72	3.30e-06	-1.77e-03	-0.13	8.81e-05	0.0	0.0
195	2	1.13e-05	-2.68e-03	-0.18	1.34e-04	1.04e-06	0.0
195	4	1.41e-05	-2.16e-03	-0.14	1.08e-04	1.11e-06	0.0
195	8	-2.64e-03	-2.22e-03	-0.13	8.94e-05	0.0	0.0
195	34	8.73e-04	-4.30e-03	-0.13	1.01e-04	0.0	0.0
195	36	-5.72e-04	-4.40e-03	-0.13	1.01e-04	0.0	0.0
195	40	-4.20e-03	-2.53e-03	-0.13	9.23e-05	1.30e-06	0.0
195	66	1.39e-03	-5.84e-03	-0.13	1.11e-04	-1.38e-06	0.0
195	68	-9.08e-04	-6.00e-03	-0.13	1.11e-04	0.0	0.0
195	70	8.19e-06	-2.01e-03	-0.14	1.00e-04	0.0	0.0
195	71	-1.20e-06	-1.69e-03	-0.13	8.43e-05	0.0	0.0

195	72	0.0	-1.76e-03	-0.13	8.75e-05	0.0	0.0
196	1	-2.27e-05	-2.20e-03	-0.17	1.09e-04	0.0	0.0
196	2	-2.39e-06	-2.67e-03	-0.18	1.33e-04	0.0	0.0
196	11	-2.67e-03	-6.30e-04	-0.13	7.93e-05	0.0	0.0
196	34	8.64e-04	-4.37e-03	-0.13	1.01e-04	-1.17e-06	0.0
196	36	-5.87e-04	-4.51e-03	-0.13	1.01e-04	-1.02e-06	0.0
196	43	-4.23e-03	-1.13e-05	-0.13	7.66e-05	0.0	0.0
196	66	1.38e-03	-5.95e-03	-0.13	1.11e-04	-1.57e-06	0.0
196	68	-9.24e-04	-6.17e-03	-0.13	1.11e-04	-1.39e-06	0.0
196	69	-1.60e-05	-1.69e-03	-0.13	8.40e-05	0.0	0.0
196	70	-2.46e-06	-2.00e-03	-0.14	9.96e-05	0.0	0.0
196	71	-1.60e-05	-1.69e-03	-0.13	8.40e-05	0.0	0.0
196	72	-1.33e-05	-1.75e-03	-0.13	8.71e-05	0.0	0.0
197	1	-3.99e-05	-2.21e-03	-0.17	1.10e-04	-1.41e-06	0.0
197	2	-1.05e-05	-2.68e-03	-0.18	1.33e-04	0.0	0.0
197	11	-2.70e-03	-5.36e-04	-0.13	7.95e-05	-1.94e-06	0.0
197	34	8.59e-04	-4.44e-03	-0.13	1.02e-04	-1.24e-06	0.0
197	36	-6.02e-04	-4.63e-03	-0.13	1.02e-04	-1.76e-06	0.0
197	43	-4.28e-03	1.42e-04	-0.13	7.68e-05	-2.47e-06	0.0
197	66	1.38e-03	-6.06e-03	-0.13	1.12e-04	-1.39e-06	0.0
197	68	-9.41e-04	-6.36e-03	-0.13	1.12e-04	-2.21e-06	0.0
197	69	-2.87e-05	-1.69e-03	-0.13	8.42e-05	0.0	0.0
197	70	-9.12e-06	-2.01e-03	-0.14	9.99e-05	0.0	0.0
197	71	-2.87e-05	-1.69e-03	-0.13	8.42e-05	0.0	0.0
197	72	-2.48e-05	-1.76e-03	-0.13	8.73e-05	0.0	0.0
198	1	-3.48e-05	-2.23e-03	-0.17	1.11e-04	-1.10e-06	0.0
198	2	1.05e-05	-2.70e-03	-0.18	1.34e-04	1.47e-06	0.0
198	11	-2.73e-03	-4.52e-04	-0.13	8.03e-05	-3.05e-06	0.0
198	30	9.30e-04	-4.75e-03	-0.13	1.02e-04	0.0	0.0
198	36	-6.04e-04	-4.76e-03	-0.13	1.02e-04	-1.81e-06	0.0
198	43	-4.32e-03	2.83e-04	-0.13	7.77e-05	-4.42e-06	0.0
198	62	1.49e-03	-6.55e-03	-0.13	1.12e-04	0.0	0.0
198	68	-9.46e-04	-6.55e-03	-0.13	1.13e-04	-2.43e-06	0.0
198	69	-2.42e-05	-1.71e-03	-0.13	8.48e-05	0.0	0.0
198	70	6.03e-06	-2.02e-03	-0.14	1.01e-04	1.00e-06	0.0
198	71	-2.42e-05	-1.71e-03	-0.13	8.48e-05	0.0	0.0
198	72	-1.81e-05	-1.77e-03	-0.13	8.80e-05	0.0	0.0
199	2	6.89e-05	-2.72e-03	-0.18	1.35e-04	4.35e-06	0.0
199	4	7.64e-05	-2.19e-03	-0.14	1.08e-04	4.60e-06	0.0
199	10	2.74e-03	-3.07e-03	-0.13	8.94e-05	4.56e-06	0.0
199	32	-6.45e-04	-4.61e-03	-0.13	1.03e-04	-1.13e-06	0.0
199	36	-5.86e-04	-4.88e-03	-0.13	1.03e-04	0.0	0.0
199	42	4.35e-03	-3.86e-03	-0.13	9.18e-05	6.88e-06	0.0
199	64	-1.03e-03	-6.32e-03	-0.13	1.14e-04	-2.13e-06	0.0
199	68	-9.33e-04	-6.74e-03	-0.13	1.13e-04	-1.87e-06	0.0
199	70	4.91e-05	-2.03e-03	-0.14	1.01e-04	3.13e-06	0.0
199	72	1.21e-05	-1.78e-03	-0.13	8.84e-05	1.12e-06	0.0
200	2	1.22e-04	-2.71e-03	-0.18	1.34e-04	6.93e-06	0.0
200	4	1.23e-04	-2.18e-03	-0.14	1.08e-04	6.87e-06	0.0
200	10	2.78e-03	-3.13e-03	-0.13	8.89e-05	6.99e-06	0.0
200	32	-6.27e-04	-4.66e-03	-0.13	1.04e-04	0.0	0.0
200	36	-5.68e-04	-4.96e-03	-0.13	1.03e-04	0.0	0.0
200	42	4.41e-03	-3.96e-03	-0.13	9.12e-05	1.00e-05	0.0
200	64	-1.01e-03	-6.39e-03	-0.13	1.14e-04	-1.55e-06	0.0
200	68	-9.19e-04	-6.87e-03	-0.13	1.14e-04	-1.25e-06	0.0
200	70	8.82e-05	-2.03e-03	-0.14	1.01e-04	5.04e-06	0.0
200	72	4.07e-05	-1.78e-03	-0.13	8.82e-05	2.50e-06	0.0
201	2	1.43e-04	-2.70e-03	-0.18	1.34e-04	7.99e-06	0.0
201	10	2.80e-03	-3.15e-03	-0.13	8.86e-05	7.98e-06	0.0
201	32	-6.21e-04	-4.68e-03	-0.13	1.03e-04	0.0	0.0
201	36	-5.61e-04	-4.99e-03	-0.13	1.03e-04	0.0	0.0
201	42	4.44e-03	-4.00e-03	-0.13	9.07e-05	1.13e-05	0.0
201	64	-1.01e-03	-6.43e-03	-0.13	1.14e-04	-1.36e-06	0.0
201	68	-9.14e-04	-6.92e-03	-0.13	1.14e-04	-1.04e-06	0.0
201	70	1.04e-04	-2.02e-03	-0.14	1.00e-04	5.81e-06	0.0
201	72	5.21e-05	-1.77e-03	-0.13	8.80e-05	3.05e-06	0.0
202	2	2.11e-04	-2.65e-03	-0.18	1.32e-04	1.13e-05	0.0
202	5	2.87e-03	-1.71e-03	-0.13	7.73e-05	1.16e-05	0.0
202	32	-6.01e-04	-4.72e-03	-0.13	1.03e-04	0.0	0.0
202	36	-5.41e-04	-5.08e-03	-0.13	1.02e-04	1.16e-06	0.0
202	37	4.52e-03	-1.73e-03	-0.13	7.37e-05	1.61e-05	0.0
202	64	-9.98e-04	-6.52e-03	-0.13	1.14e-04	0.0	0.0
202	68	-9.00e-04	-7.08e-03	-0.13	1.13e-04	0.0	0.0
202	70	1.54e-04	-1.99e-03	-0.14	9.88e-05	8.26e-06	0.0
202	72	8.65e-05	-1.74e-03	-0.13	8.67e-05	4.74e-06	0.0
203	2	2.41e-04	-2.59e-03	-0.18	1.29e-04	1.29e-05	0.0

203	5	2.91e-03	-1.76e-03	-0.13	7.51e-05	1.37e-05	0.0
203	32	-6.05e-04	-4.76e-03	-0.13	1.02e-04	0.0	0.0
203	36	-5.43e-04	-5.16e-03	-0.13	1.01e-04	1.05e-06	0.0
203	37	4.58e-03	-1.83e-03	-0.13	7.11e-05	1.92e-05	0.0
203	64	-1.01e-03	-6.60e-03	-0.13	1.13e-04	-1.19e-06	0.0
203	68	-9.08e-04	-7.23e-03	-0.13	1.12e-04	0.0	0.0
203	70	1.75e-04	-1.94e-03	-0.14	9.66e-05	9.38e-06	0.0
203	72	9.57e-05	-1.71e-03	-0.13	8.49e-05	5.24e-06	0.0
204	2	2.34e-04	-2.54e-03	-0.18	1.27e-04	1.27e-05	0.0
204	5	2.93e-03	-1.82e-03	-0.13	7.32e-05	1.48e-05	0.0
204	12	-2.72e-03	-1.94e-03	-0.13	9.02e-05	-7.96e-06	0.0
204	36	-5.67e-04	-5.25e-03	-0.13	1.00e-04	0.0	0.0
204	37	4.63e-03	-1.93e-03	-0.13	6.88e-05	2.15e-05	0.0
204	44	-4.36e-03	-2.14e-03	-0.13	9.56e-05	-1.46e-05	0.0
204	68	-9.36e-04	-7.39e-03	-0.13	1.11e-04	-2.07e-06	0.0
204	70	1.69e-04	-1.91e-03	-0.13	9.49e-05	9.17e-06	0.0
204	72	8.14e-05	-1.68e-03	-0.13	8.36e-05	4.59e-06	0.0
205	2	2.20e-04	-2.53e-03	-0.18	1.26e-04	1.21e-05	0.0
205	4	2.26e-04	-2.03e-03	-0.14	1.01e-04	1.22e-05	0.0
205	10	2.95e-03	-3.43e-03	-0.13	8.17e-05	1.57e-05	0.0
205	12	-2.78e-03	-1.90e-03	-0.13	9.09e-05	-1.08e-05	0.0
205	36	-5.93e-04	-5.36e-03	-0.13	1.00e-04	-1.34e-06	0.0
205	42	4.67e-03	-4.49e-03	-0.13	8.24e-05	2.35e-05	0.0
205	44	-4.44e-03	-2.08e-03	-0.13	9.69e-05	-1.86e-05	0.0
205	68	-9.66e-04	-7.57e-03	-0.13	1.11e-04	-3.52e-06	0.0
205	70	1.58e-04	-1.90e-03	-0.13	9.44e-05	8.69e-06	0.0
205	72	6.31e-05	-1.67e-03	-0.13	8.34e-05	3.75e-06	0.0
206	2	2.42e-04	-2.56e-03	-0.18	1.27e-04	1.32e-05	0.0
206	4	2.47e-04	-2.05e-03	-0.14	1.02e-04	1.33e-05	0.0
206	10	3.00e-03	-3.54e-03	-0.13	8.17e-05	1.80e-05	0.0
206	12	-2.81e-03	-1.90e-03	-0.13	9.32e-05	-1.22e-05	0.0
206	36	-5.92e-04	-5.50e-03	-0.13	1.01e-04	0.0	0.0
206	42	4.74e-03	-4.65e-03	-0.13	8.17e-05	2.69e-05	0.0
206	44	-4.49e-03	-2.06e-03	-0.14	9.99e-05	-2.10e-05	0.0
206	68	-9.67e-04	-7.77e-03	-0.13	1.13e-04	-3.26e-06	0.0
206	70	1.73e-04	-1.92e-03	-0.13	9.55e-05	9.52e-06	0.0
206	72	7.08e-05	-1.70e-03	-0.13	8.45e-05	4.18e-06	0.0
207	2	3.43e-04	-2.62e-03	-0.17	1.30e-04	1.83e-05	0.0
207	10	3.08e-03	-3.67e-03	-0.13	8.25e-05	2.24e-05	0.0
207	12	-2.77e-03	-1.92e-03	-0.13	9.71e-05	-1.05e-05	0.0
207	36	-5.34e-04	-5.66e-03	-0.13	1.04e-04	1.87e-06	0.0
207	42	4.84e-03	-4.82e-03	-0.12	8.16e-05	3.21e-05	0.0
207	44	-4.47e-03	-2.07e-03	-0.14	1.05e-04	-2.01e-05	0.0
207	68	-9.10e-04	-8.00e-03	-0.13	1.15e-04	0.0	0.0
207	70	2.49e-04	-1.97e-03	-0.13	9.80e-05	1.33e-05	0.0
207	72	1.34e-04	-1.75e-03	-0.13	8.69e-05	7.31e-06	0.0
208	2	4.53e-04	-2.67e-03	-0.17	1.33e-04	2.37e-05	0.0
208	10	3.16e-03	-3.75e-03	-0.13	8.32e-05	2.62e-05	0.0
208	12	-2.71e-03	-1.94e-03	-0.13	1.00e-04	-7.37e-06	0.0
208	36	-4.63e-04	-5.76e-03	-0.13	1.06e-04	5.38e-06	0.0
208	42	4.92e-03	-4.93e-03	-0.12	8.15e-05	3.62e-05	0.0
208	44	-4.41e-03	-2.08e-03	-0.14	1.08e-04	-1.72e-05	0.0
208	68	-8.38e-04	-8.14e-03	-0.13	1.17e-04	3.09e-06	0.0
208	70	3.31e-04	-2.01e-03	-0.13	1.00e-04	1.74e-05	0.0
208	72	2.05e-04	-1.78e-03	-0.13	8.88e-05	1.09e-05	0.0
209	2	-5.14e-04	-1.12e-03	-0.17	5.57e-05	-2.66e-05	0.0
209	6	2.61e-03	-8.86e-04	-0.13	4.68e-05	3.95e-06	0.0
209	8	-3.09e-03	-2.77e-03	-0.12	3.54e-05	-2.68e-05	0.0
209	26	5.38e-04	-4.70e-03	-0.13	5.38e-05	-7.23e-06	0.0
209	38	4.27e-03	-9.93e-04	-0.13	5.32e-05	1.29e-05	0.0
209	40	-4.78e-03	-3.96e-03	-0.12	3.51e-05	-3.58e-05	0.0
209	58	9.83e-04	-7.04e-03	-0.13	6.42e-05	-4.81e-06	0.0
209	70	-3.78e-04	-8.40e-04	-0.13	4.19e-05	-1.96e-05	0.0
209	72	-2.49e-04	-7.46e-04	-0.13	3.72e-05	-1.30e-05	0.0
210	2	-3.28e-04	-1.09e-03	-0.17	5.41e-05	-1.74e-05	0.0
210	6	2.71e-03	-8.95e-04	-0.13	4.47e-05	9.14e-06	0.0
210	8	-2.96e-03	-2.66e-03	-0.12	3.55e-05	-2.04e-05	0.0
210	26	6.53e-04	-4.57e-03	-0.13	5.28e-05	-1.52e-06	0.0
210	38	4.37e-03	-1.02e-03	-0.13	5.04e-05	1.78e-05	0.0
210	40	-4.64e-03	-3.80e-03	-0.12	3.59e-05	-2.90e-05	0.0
210	58	1.10e-03	-6.85e-03	-0.13	6.33e-05	0.0	0.0
210	70	-2.39e-04	-8.15e-04	-0.13	4.06e-05	-1.26e-05	0.0
210	72	-1.29e-04	-7.22e-04	-0.13	3.60e-05	-6.97e-06	0.0
211	2	-2.37e-04	-1.06e-03	-0.17	5.31e-05	-1.28e-05	0.0
211	4	-2.41e-04	-8.55e-04	-0.13	4.27e-05	-1.29e-05	0.0
211	6	2.74e-03	-9.14e-04	-0.13	4.30e-05	1.04e-05	0.0

211	8	-2.88e-03	-2.56e-03	-0.12	3.57e-05	-1.64e-05	0.0
211	26	7.00e-04	-4.45e-03	-0.13	5.20e-05	0.0	0.0
211	38	4.38e-03	-1.06e-03	-0.13	4.82e-05	1.83e-05	0.0
211	40	-4.55e-03	-3.65e-03	-0.12	3.66e-05	-2.44e-05	0.0
211	58	1.14e-03	-6.66e-03	-0.13	6.25e-05	2.99e-06	0.0
211	70	-1.71e-04	-7.99e-04	-0.13	3.99e-05	-9.25e-06	0.0
211	72	-7.40e-05	-7.06e-04	-0.13	3.53e-05	-4.22e-06	0.0
212	2	-2.08e-04	-1.06e-03	-0.17	5.29e-05	-1.12e-05	0.0
212	4	-2.13e-04	-8.52e-04	-0.13	4.25e-05	-1.14e-05	0.0
212	6	2.72e-03	-9.45e-04	-0.13	4.20e-05	9.37e-06	0.0
212	8	-2.84e-03	-2.46e-03	-0.13	3.62e-05	-1.41e-05	0.0
212	26	7.02e-04	-4.33e-03	-0.13	5.16e-05	1.11e-06	0.0
212	38	4.34e-03	-1.11e-03	-0.13	4.68e-05	1.63e-05	0.0
212	40	-4.49e-03	-3.50e-03	-0.12	3.75e-05	-2.10e-05	0.0
212	58	1.14e-03	-6.48e-03	-0.13	6.20e-05	3.14e-06	0.0
212	70	-1.50e-04	-7.95e-04	-0.13	3.97e-05	-8.12e-06	0.0
212	72	-6.19e-05	-7.01e-04	-0.13	3.50e-05	-3.57e-06	0.0
213	2	-2.03e-04	-1.07e-03	-0.17	5.35e-05	-1.09e-05	0.0
213	4	-2.04e-04	-8.61e-04	-0.13	4.30e-05	-1.08e-05	0.0
213	6	2.67e-03	-9.88e-04	-0.13	4.16e-05	7.25e-06	0.0
213	11	-2.81e-03	-8.71e-04	-0.13	2.81e-05	-1.26e-05	0.0
213	26	6.86e-04	-4.22e-03	-0.13	5.17e-05	0.0	0.0
213	38	4.28e-03	-1.18e-03	-0.13	4.60e-05	1.31e-05	0.0
213	43	-4.44e-03	-9.77e-04	-0.13	2.47e-05	-1.84e-05	0.0
213	58	1.12e-03	-6.31e-03	-0.13	6.19e-05	2.09e-06	0.0
213	70	-1.47e-04	-8.03e-04	-0.13	4.01e-05	-7.88e-06	0.0
213	72	-6.74e-05	-7.07e-04	-0.13	3.53e-05	-3.77e-06	0.0
214	2	-1.91e-04	-1.09e-03	-0.17	5.45e-05	-1.02e-05	0.0
214	6	2.64e-03	-1.04e-03	-0.13	4.16e-05	5.28e-06	0.0
214	11	-2.78e-03	-7.97e-04	-0.13	2.91e-05	-1.11e-05	0.0
214	26	6.72e-04	-4.12e-03	-0.13	5.19e-05	0.0	0.0
214	38	4.22e-03	-1.25e-03	-0.13	4.57e-05	1.01e-05	0.0
214	43	-4.38e-03	-8.54e-04	-0.13	2.60e-05	-1.59e-05	0.0
214	58	1.10e-03	-6.14e-03	-0.13	6.19e-05	1.16e-06	0.0
214	70	-1.39e-04	-8.19e-04	-0.13	4.09e-05	-7.41e-06	0.0
214	72	-6.93e-05	-7.19e-04	-0.13	3.59e-05	-3.81e-06	0.0
215	2	-1.57e-04	-1.11e-03	-0.17	5.56e-05	-8.46e-06	0.0
215	11	-2.73e-03	-7.22e-04	-0.13	3.01e-05	-8.72e-06	0.0
215	22	6.96e-04	-3.68e-03	-0.13	5.25e-05	0.0	0.0
215	26	6.72e-04	-4.02e-03	-0.13	5.22e-05	0.0	0.0
215	43	-4.32e-03	-7.27e-04	-0.13	2.72e-05	-1.24e-05	0.0
215	54	1.13e-03	-5.43e-03	-0.13	6.25e-05	1.01e-06	0.0
215	58	1.09e-03	-5.97e-03	-0.13	6.20e-05	0.0	0.0
215	70	-1.14e-04	-8.35e-04	-0.13	4.17e-05	-6.16e-06	0.0
215	72	-5.69e-05	-7.32e-04	-0.13	3.65e-05	-3.16e-06	0.0
216	2	-1.13e-04	-1.13e-03	-0.17	5.62e-05	-6.21e-06	0.0
216	4	-1.15e-04	-9.07e-04	-0.13	4.52e-05	-6.27e-06	0.0
216	11	-2.69e-03	-6.49e-04	-0.13	3.08e-05	-6.30e-06	0.0
216	22	7.05e-04	-3.62e-03	-0.13	5.25e-05	0.0	0.0
216	26	6.81e-04	-3.92e-03	-0.13	5.23e-05	0.0	0.0
216	43	-4.26e-03	-6.07e-04	-0.13	2.80e-05	-9.10e-06	0.0
216	54	1.13e-03	-5.34e-03	-0.13	6.23e-05	1.19e-06	0.0
216	58	1.10e-03	-5.81e-03	-0.13	6.19e-05	1.08e-06	0.0
216	70	-8.19e-05	-8.44e-04	-0.13	4.21e-05	-4.51e-06	0.0
216	72	-3.59e-05	-7.39e-04	-0.13	3.69e-05	-2.10e-06	0.0
217	1	-3.58e-04	6.32e-03	-0.22	-3.09e-04	-1.79e-05	0.0
217	2	-3.43e-04	7.75e-03	-0.24	-3.79e-04	-1.69e-05	0.0
217	15	-3.50e-03	5.10e-03	-0.17	-2.48e-04	-2.37e-05	0.0
217	31	-4.16e-04	8.53e-03	-0.18	-2.79e-04	-1.95e-05	0.0
217	35	-6.40e-04	8.25e-03	-0.18	-2.79e-04	-2.02e-05	0.0
217	47	-5.40e-03	5.25e-03	-0.18	-2.54e-04	-2.95e-05	0.0
217	63	-5.00e-04	0.01	-0.18	-3.03e-04	-2.29e-05	0.0
217	67	-8.58e-04	0.01	-0.18	-3.03e-04	-2.41e-05	0.0
217	69	-2.73e-04	4.85e-03	-0.17	-2.37e-04	-1.36e-05	0.0
217	70	-2.63e-04	5.80e-03	-0.19	-2.84e-04	-1.30e-05	0.0
217	71	-2.73e-04	4.85e-03	-0.17	-2.37e-04	-1.36e-05	0.0
217	72	-2.71e-04	5.04e-03	-0.17	-2.47e-04	-1.35e-05	0.0
218	2	-5.57e-05	-1.13e-03	-0.17	5.64e-05	-3.29e-06	0.0
218	4	-6.38e-05	-9.09e-04	-0.13	4.54e-05	-3.63e-06	0.0
218	5	2.63e-03	5.93e-04	-0.13	3.15e-05	2.89e-06	0.0
218	22	7.19e-04	-3.55e-03	-0.13	5.22e-05	0.0	0.0
218	26	6.96e-04	-3.80e-03	-0.13	5.19e-05	0.0	0.0
218	37	4.18e-03	1.36e-03	-0.13	2.91e-05	4.69e-06	0.0
218	54	1.14e-03	-5.22e-03	-0.13	6.18e-05	1.64e-06	0.0
218	58	1.11e-03	-5.62e-03	-0.13	6.13e-05	1.56e-06	0.0
218	70	-3.97e-05	-8.46e-04	-0.13	4.22e-05	-2.36e-06	0.0

218	72	-7.31e-06	-7.40e-04	-0.13	3.70e-05	0.0	0.0
219	2	-2.26e-05	-1.12e-03	-0.17	5.61e-05	-1.54e-06	0.0
219	4	-3.26e-05	-9.05e-04	-0.14	4.52e-05	-1.99e-06	0.0
219	5	2.61e-03	4.99e-04	-0.13	3.12e-05	2.17e-06	0.0
219	26	7.01e-04	-3.68e-03	-0.13	5.15e-05	1.18e-06	0.0
219	28	-8.02e-04	-3.47e-03	-0.13	5.16e-05	0.0	0.0
219	37	4.15e-03	1.21e-03	-0.13	2.86e-05	3.16e-06	0.0
219	58	1.11e-03	-5.44e-03	-0.13	6.08e-05	1.60e-06	0.0
219	60	-1.28e-03	-5.10e-03	-0.13	6.10e-05	0.0	0.0
219	70	-1.54e-05	-8.42e-04	-0.13	4.20e-05	-1.07e-06	0.0
219	71	1.28e-05	-7.10e-04	-0.13	3.55e-05	0.0	0.0
219	72	7.16e-06	-7.36e-04	-0.13	3.68e-05	0.0	0.0
220	2	-1.27e-05	-1.12e-03	-0.17	5.58e-05	0.0	0.0
220	4	-2.08e-05	-9.00e-04	-0.14	4.50e-05	-1.27e-06	0.0
220	10	2.59e-03	-1.06e-03	-0.13	3.97e-05	1.09e-06	0.0
220	26	6.94e-04	-3.57e-03	-0.13	5.11e-05	0.0	0.0
220	28	-7.97e-04	-3.40e-03	-0.13	5.12e-05	0.0	0.0
220	42	4.11e-03	-1.27e-03	-0.13	4.22e-05	1.41e-06	0.0
220	58	1.10e-03	-5.25e-03	-0.13	6.02e-05	1.16e-06	0.0
220	60	-1.27e-03	-4.99e-03	-0.13	6.03e-05	0.0	0.0
220	69	1.13e-05	-7.05e-04	-0.13	3.53e-05	0.0	0.0
220	70	-8.53e-06	-8.37e-04	-0.13	4.18e-05	0.0	0.0
220	71	1.13e-05	-7.05e-04	-0.13	3.53e-05	0.0	0.0
220	72	7.34e-06	-7.32e-04	-0.13	3.66e-05	0.0	0.0
221	2	-1.80e-05	-1.12e-03	-0.17	5.58e-05	0.0	0.0
221	4	-2.18e-05	-9.00e-04	-0.14	4.49e-05	-1.17e-06	0.0
221	10	2.57e-03	-1.16e-03	-0.13	3.97e-05	0.0	0.0
221	26	6.80e-04	-3.46e-03	-0.13	5.09e-05	0.0	0.0
221	28	-8.01e-04	-3.33e-03	-0.13	5.08e-05	0.0	0.0
221	42	4.08e-03	-1.43e-03	-0.13	4.22e-05	0.0	0.0
221	58	1.08e-03	-5.08e-03	-0.13	5.98e-05	0.0	0.0
221	60	-1.27e-03	-4.88e-03	-0.13	5.97e-05	0.0	0.0
221	70	-1.29e-05	-8.37e-04	-0.13	4.18e-05	0.0	0.0
221	71	1.50e-06	-7.05e-04	-0.13	3.52e-05	0.0	0.0
221	72	-1.38e-06	-7.31e-04	-0.13	3.65e-05	0.0	0.0
222	2	-2.41e-05	-1.12e-03	-0.17	5.60e-05	-1.15e-06	0.0
222	11	-2.56e-03	-1.56e-04	-0.13	3.09e-05	0.0	0.0
222	26	6.69e-04	-3.35e-03	-0.13	5.07e-05	0.0	0.0
222	28	-8.07e-04	-3.27e-03	-0.13	5.06e-05	0.0	0.0
222	43	-4.07e-03	1.71e-04	-0.13	2.84e-05	0.0	0.0
222	58	1.07e-03	-4.90e-03	-0.13	5.94e-05	0.0	0.0
222	60	-1.28e-03	-4.77e-03	-0.13	5.93e-05	0.0	0.0
222	70	-1.78e-05	-8.41e-04	-0.13	4.20e-05	0.0	0.0
222	72	-9.59e-06	-7.35e-04	-0.13	3.67e-05	0.0	0.0
223	2	-2.11e-05	-1.13e-03	-0.17	5.63e-05	0.0	0.0
223	11	-2.56e-03	-6.16e-05	-0.13	3.11e-05	0.0	0.0
223	26	6.65e-04	-3.24e-03	-0.13	5.05e-05	0.0	0.0
223	28	-8.08e-04	-3.20e-03	-0.13	5.04e-05	0.0	0.0
223	43	-4.06e-03	3.22e-04	-0.13	2.86e-05	1.12e-06	0.0
223	58	1.06e-03	-4.73e-03	-0.13	5.90e-05	0.0	0.0
223	60	-1.28e-03	-4.67e-03	-0.13	5.89e-05	0.0	0.0
223	70	-1.57e-05	-8.45e-04	-0.13	4.22e-05	0.0	0.0
223	72	-1.09e-05	-7.39e-04	-0.13	3.69e-05	0.0	0.0
224	2	-1.38e-05	-1.13e-03	-0.17	5.64e-05	0.0	0.0
224	11	-2.56e-03	1.27e-05	-0.13	3.14e-05	0.0	0.0
224	28	-8.06e-04	-3.15e-03	-0.13	5.03e-05	0.0	0.0
224	43	-4.06e-03	4.42e-04	-0.13	2.89e-05	1.35e-06	0.0
224	60	-1.28e-03	-4.59e-03	-0.13	5.87e-05	0.0	0.0
224	70	-1.03e-05	-8.47e-04	-0.13	4.22e-05	0.0	0.0
224	72	-8.46e-06	-7.40e-04	-0.13	3.69e-05	0.0	0.0
225	2	-1.32e-05	-1.13e-03	-0.17	5.64e-05	0.0	0.0
225	11	-2.56e-03	3.59e-05	-0.13	3.13e-05	0.0	0.0
225	30	8.13e-04	-3.17e-03	-0.13	5.02e-05	0.0	0.0
225	43	-4.06e-03	4.77e-04	-0.13	2.88e-05	1.35e-06	0.0
225	62	1.30e-03	-4.61e-03	-0.13	5.86e-05	-1.24e-06	0.0
225	70	-9.83e-06	-8.47e-04	-0.13	4.22e-05	0.0	0.0
225	72	-8.61e-06	-7.40e-04	-0.13	3.69e-05	0.0	0.0
226	1	-7.64e-06	-9.27e-04	-0.17	4.63e-05	0.0	0.0
226	2	-2.57e-06	-1.13e-03	-0.17	5.62e-05	0.0	0.0
226	8	-2.55e-03	-1.32e-03	-0.13	4.00e-05	0.0	0.0
226	30	8.17e-04	-3.28e-03	-0.13	5.05e-05	0.0	0.0
226	36	-6.79e-04	-3.28e-03	-0.13	5.06e-05	0.0	0.0
226	40	-4.06e-03	-1.69e-03	-0.13	4.25e-05	1.38e-06	0.0
226	66	1.26e-03	-4.70e-03	-0.13	5.91e-05	-1.05e-06	0.0
226	68	-1.08e-03	-4.79e-03	-0.13	5.92e-05	0.0	0.0
226	69	-5.35e-06	-7.11e-04	-0.13	3.55e-05	0.0	0.0

226	70	-1.97e-06	-8.44e-04	-0.13	4.21e-05	0.0	0.0
226	71	-5.35e-06	-7.11e-04	-0.13	3.55e-05	0.0	0.0
226	72	-4.68e-06	-7.37e-04	-0.13	3.68e-05	0.0	0.0
227	1	-1.25e-05	-9.21e-04	-0.17	4.60e-05	0.0	0.0
227	2	0.0	-1.12e-03	-0.17	5.59e-05	0.0	0.0
227	8	-2.56e-03	-1.22e-03	-0.13	3.98e-05	0.0	0.0
227	34	7.93e-04	-3.29e-03	-0.13	5.07e-05	0.0	0.0
227	36	-6.84e-04	-3.38e-03	-0.13	5.07e-05	0.0	0.0
227	40	-4.07e-03	-1.53e-03	-0.13	4.23e-05	0.0	0.0
227	66	1.26e-03	-4.81e-03	-0.13	5.95e-05	0.0	0.0
227	68	-1.08e-03	-4.96e-03	-0.13	5.96e-05	0.0	0.0
227	69	-8.64e-06	-7.06e-04	-0.13	3.53e-05	0.0	0.0
227	70	0.0	-8.38e-04	-0.13	4.18e-05	0.0	0.0
227	71	-8.64e-06	-7.06e-04	-0.13	3.53e-05	0.0	0.0
227	72	-7.03e-06	-7.33e-04	-0.13	3.66e-05	0.0	0.0
228	1	-2.37e-05	-9.18e-04	-0.17	4.59e-05	0.0	0.0
228	2	-4.11e-06	-1.12e-03	-0.17	5.57e-05	0.0	0.0
228	11	-2.58e-03	3.44e-04	-0.13	3.08e-05	0.0	0.0
228	34	7.89e-04	-3.36e-03	-0.13	5.09e-05	0.0	0.0
228	36	-6.95e-04	-3.50e-03	-0.13	5.09e-05	0.0	0.0
228	43	-4.10e-03	9.59e-04	-0.13	2.83e-05	0.0	0.0
228	66	1.26e-03	-4.92e-03	-0.13	5.99e-05	0.0	0.0
228	68	-1.09e-03	-5.14e-03	-0.13	6.00e-05	0.0	0.0
228	69	-1.68e-05	-7.04e-04	-0.13	3.52e-05	0.0	0.0
228	70	-3.69e-06	-8.36e-04	-0.13	4.17e-05	0.0	0.0
228	71	-1.68e-05	-7.04e-04	-0.13	3.52e-05	0.0	0.0
228	72	-1.42e-05	-7.31e-04	-0.13	3.65e-05	0.0	0.0
229	1	-3.12e-05	-9.21e-04	-0.17	4.60e-05	0.0	0.0
229	2	-1.05e-06	-1.12e-03	-0.17	5.58e-05	0.0	0.0
229	11	-2.61e-03	4.41e-04	-0.13	3.09e-05	-1.61e-06	0.0
229	34	7.89e-04	-3.43e-03	-0.13	5.13e-05	0.0	0.0
229	36	-7.04e-04	-3.61e-03	-0.13	5.12e-05	-1.16e-06	0.0
229	43	-4.13e-03	1.11e-03	-0.13	2.84e-05	-2.14e-06	0.0
229	66	1.27e-03	-5.03e-03	-0.13	6.05e-05	0.0	0.0
229	68	-1.11e-03	-5.32e-03	-0.13	6.03e-05	-1.43e-06	0.0
229	69	-2.20e-05	-7.07e-04	-0.13	3.53e-05	0.0	0.0
229	70	-1.87e-06	-8.38e-04	-0.13	4.18e-05	0.0	0.0
229	71	-2.20e-05	-7.07e-04	-0.13	3.53e-05	0.0	0.0
229	72	-1.80e-05	-7.33e-04	-0.13	3.66e-05	0.0	0.0
230	2	2.20e-05	-1.13e-03	-0.17	5.60e-05	1.99e-06	0.0
230	4	3.35e-05	-9.07e-04	-0.14	4.51e-05	2.44e-06	0.0
230	11	-2.63e-03	5.35e-04	-0.13	3.12e-05	-2.50e-06	0.0
230	30	8.26e-04	-3.73e-03	-0.13	5.14e-05	0.0	0.0
230	36	-7.05e-04	-3.73e-03	-0.13	5.15e-05	-1.16e-06	0.0
230	43	-4.16e-03	1.27e-03	-0.13	2.87e-05	-3.77e-06	0.0
230	62	1.32e-03	-5.50e-03	-0.13	6.07e-05	0.0	0.0
230	68	-1.11e-03	-5.51e-03	-0.13	6.08e-05	-1.63e-06	0.0
230	69	-1.58e-05	-7.12e-04	-0.13	3.55e-05	0.0	0.0
230	70	1.48e-05	-8.44e-04	-0.13	4.20e-05	1.40e-06	0.0
230	71	-1.58e-05	-7.12e-04	-0.13	3.55e-05	0.0	0.0
230	72	-9.69e-06	-7.38e-04	-0.13	3.68e-05	0.0	0.0
231	2	6.83e-05	-1.13e-03	-0.17	5.62e-05	4.29e-06	0.0
231	4	7.56e-05	-9.10e-04	-0.14	4.52e-05	4.53e-06	0.0
231	10	2.64e-03	-2.06e-03	-0.13	3.96e-05	4.29e-06	0.0
231	32	-7.17e-04	-3.58e-03	-0.13	5.22e-05	0.0	0.0
231	36	-6.93e-04	-3.84e-03	-0.13	5.18e-05	0.0	0.0
231	42	4.20e-03	-2.85e-03	-0.13	4.20e-05	6.43e-06	0.0
231	64	-1.14e-03	-5.26e-03	-0.13	6.18e-05	-1.46e-06	0.0
231	68	-1.10e-03	-5.69e-03	-0.13	6.12e-05	-1.36e-06	0.0
231	70	4.89e-05	-8.47e-04	-0.13	4.21e-05	3.09e-06	0.0
231	72	1.29e-05	-7.41e-04	-0.13	3.69e-05	1.14e-06	0.0
232	2	1.07e-04	-1.13e-03	-0.17	5.60e-05	6.19e-06	0.0
232	4	1.11e-04	-9.07e-04	-0.13	4.51e-05	6.25e-06	0.0
232	10	2.68e-03	-2.13e-03	-0.13	3.94e-05	6.23e-06	0.0
232	32	-7.07e-04	-3.62e-03	-0.13	5.23e-05	0.0	0.0
232	36	-6.83e-04	-3.92e-03	-0.13	5.21e-05	0.0	0.0
232	42	4.25e-03	-2.95e-03	-0.13	4.16e-05	9.03e-06	0.0
232	64	-1.14e-03	-5.34e-03	-0.13	6.20e-05	-1.20e-06	0.0
232	68	-1.10e-03	-5.81e-03	-0.13	6.17e-05	-1.08e-06	0.0
232	70	7.76e-05	-8.44e-04	-0.13	4.20e-05	4.49e-06	0.0
232	72	3.25e-05	-7.40e-04	-0.13	3.68e-05	2.08e-06	0.0
233	2	1.23e-04	-1.12e-03	-0.17	5.58e-05	6.95e-06	0.0
233	4	1.25e-04	-9.05e-04	-0.13	4.49e-05	6.94e-06	0.0
233	5	2.70e-03	-6.70e-04	-0.13	3.05e-05	7.04e-06	0.0
233	32	-7.03e-04	-3.64e-03	-0.13	5.23e-05	0.0	0.0
233	36	-6.79e-04	-3.96e-03	-0.13	5.21e-05	0.0	0.0

233	37	4.27e-03	-6.42e-04	-0.13	2.77e-05	1.01e-05	0.0
233	64	-1.13e-03	-5.38e-03	-0.13	6.21e-05	-1.15e-06	0.0
233	68	-1.10e-03	-5.87e-03	-0.13	6.18e-05	-1.02e-06	0.0
233	70	8.90e-05	-8.42e-04	-0.13	4.19e-05	5.05e-06	0.0
233	72	3.99e-05	-7.38e-04	-0.13	3.67e-05	2.44e-06	0.0
234	2	1.74e-04	-1.11e-03	-0.17	5.50e-05	9.48e-06	0.0
234	5	2.75e-03	-7.49e-04	-0.13	2.97e-05	9.90e-06	0.0
234	12	-2.62e-03	-1.07e-03	-0.13	4.16e-05	-4.30e-06	0.0
234	36	-6.69e-04	-4.06e-03	-0.13	5.20e-05	0.0	0.0
234	37	4.34e-03	-7.72e-04	-0.13	2.66e-05	1.41e-05	0.0
234	44	-4.19e-03	-1.30e-03	-0.13	4.54e-05	-8.47e-06	0.0
234	68	-1.09e-03	-6.04e-03	-0.13	6.18e-05	0.0	0.0
234	70	1.27e-04	-8.29e-04	-0.13	4.12e-05	6.90e-06	0.0
234	72	6.41e-05	-7.27e-04	-0.13	3.62e-05	3.63e-06	0.0
235	2	2.03e-04	-1.08e-03	-0.17	5.39e-05	1.10e-05	0.0
235	5	2.79e-03	-8.22e-04	-0.13	2.86e-05	1.20e-05	0.0
235	12	-2.64e-03	-1.02e-03	-0.13	4.15e-05	-5.74e-06	0.0
235	36	-6.72e-04	-4.16e-03	-0.13	5.17e-05	0.0	0.0
235	37	4.41e-03	-8.96e-04	-0.13	2.54e-05	1.72e-05	0.0
235	44	-4.24e-03	-1.22e-03	-0.13	4.57e-05	-1.09e-05	0.0
235	68	-1.10e-03	-6.21e-03	-0.13	6.17e-05	-1.28e-06	0.0
235	70	1.48e-04	-8.12e-04	-0.13	4.04e-05	7.98e-06	0.0
235	72	7.34e-05	-7.13e-04	-0.13	3.56e-05	4.11e-06	0.0
236	2	2.13e-04	-1.06e-03	-0.17	5.30e-05	1.16e-05	0.0
236	4	2.15e-04	-8.56e-04	-0.13	4.26e-05	1.15e-05	0.0
236	5	2.82e-03	-8.97e-04	-0.13	2.77e-05	1.36e-05	0.0
236	12	-2.68e-03	-9.73e-04	-0.13	4.17e-05	-7.79e-06	0.0
236	36	-6.87e-04	-4.27e-03	-0.13	5.15e-05	0.0	0.0
236	37	4.46e-03	-1.02e-03	-0.12	2.41e-05	1.99e-05	0.0
236	44	-4.30e-03	-1.15e-03	-0.13	4.62e-05	-1.41e-05	0.0
236	68	-1.12e-03	-6.38e-03	-0.13	6.17e-05	-2.26e-06	0.0
236	70	1.54e-04	-7.98e-04	-0.13	3.98e-05	8.37e-06	0.0
236	72	7.03e-05	-7.03e-04	-0.13	3.51e-05	4.01e-06	0.0
237	2	2.26e-04	-1.06e-03	-0.17	5.28e-05	1.23e-05	0.0
237	4	2.30e-04	-8.51e-04	-0.13	4.24e-05	1.24e-05	0.0
237	10	2.86e-03	-2.50e-03	-0.13	3.58e-05	1.52e-05	0.0
237	12	-2.72e-03	-9.36e-04	-0.13	4.23e-05	-9.63e-06	0.0
237	36	-6.97e-04	-4.38e-03	-0.13	5.16e-05	0.0	0.0
237	42	4.51e-03	-3.56e-03	-0.12	3.70e-05	2.26e-05	0.0
237	44	-4.35e-03	-1.10e-03	-0.13	4.72e-05	-1.70e-05	0.0
237	68	-1.14e-03	-6.56e-03	-0.13	6.20e-05	-3.04e-06	0.0
237	70	1.63e-04	-7.95e-04	-0.13	3.96e-05	8.88e-06	0.0
237	72	7.03e-05	-7.01e-04	-0.13	3.50e-05	4.07e-06	0.0
238	2	2.76e-04	-1.07e-03	-0.17	5.33e-05	1.49e-05	0.0
238	10	2.91e-03	-2.60e-03	-0.12	3.54e-05	1.82e-05	0.0
238	12	-2.73e-03	-9.10e-04	-0.13	4.35e-05	-9.87e-06	0.0
238	36	-6.80e-04	-4.50e-03	-0.13	5.22e-05	0.0	0.0
238	42	4.59e-03	-3.71e-03	-0.12	3.61e-05	2.64e-05	0.0
238	44	-4.38e-03	-1.05e-03	-0.13	4.89e-05	-1.81e-05	0.0
238	68	-1.12e-03	-6.75e-03	-0.13	6.26e-05	-2.07e-06	0.0
238	70	2.00e-04	-8.04e-04	-0.13	4.00e-05	1.08e-05	0.0
238	72	9.71e-05	-7.11e-04	-0.13	3.54e-05	5.43e-06	0.0
239	2	4.02e-04	-1.10e-03	-0.17	5.46e-05	2.11e-05	0.0
239	10	3.01e-03	-2.70e-03	-0.12	3.53e-05	2.30e-05	0.0
239	12	-2.67e-03	-8.97e-04	-0.13	4.54e-05	-7.20e-06	0.0
239	36	-6.09e-04	-4.63e-03	-0.13	5.30e-05	3.75e-06	0.0
239	42	4.70e-03	-3.87e-03	-0.12	3.54e-05	3.19e-05	0.0
239	44	-4.34e-03	-1.02e-03	-0.13	5.14e-05	-1.61e-05	0.0
239	68	-1.05e-03	-6.94e-03	-0.13	6.34e-05	1.29e-06	0.0
239	70	2.94e-04	-8.24e-04	-0.13	4.10e-05	1.55e-05	0.0
239	72	1.76e-04	-7.31e-04	-0.13	3.64e-05	9.36e-06	0.0
240	2	5.24e-04	-1.12e-03	-0.17	5.56e-05	2.72e-05	0.0
240	10	3.09e-03	-2.77e-03	-0.12	3.53e-05	2.71e-05	0.0
240	12	-2.60e-03	-8.93e-04	-0.13	4.68e-05	-3.65e-06	0.0
240	36	-5.32e-04	-4.71e-03	-0.13	5.36e-05	7.54e-06	0.0
240	42	4.78e-03	-3.96e-03	-0.12	3.49e-05	3.62e-05	0.0
240	44	-4.27e-03	-1.01e-03	-0.13	5.31e-05	-1.27e-05	0.0
240	68	-9.77e-04	-7.06e-03	-0.13	6.39e-05	5.10e-06	0.0
240	70	3.85e-04	-8.40e-04	-0.13	4.18e-05	2.00e-05	0.0
240	72	2.55e-04	-7.46e-04	-0.13	3.71e-05	1.33e-05	0.0
241	2	-5.23e-04	4.85e-04	-0.17	-2.41e-05	-2.71e-05	0.0
241	13	2.59e-03	4.63e-04	-0.13	-2.51e-05	3.34e-06	0.0
241	20	-3.06e-03	8.22e-04	-0.12	-7.78e-06	-2.67e-05	0.0
241	21	5.80e-04	4.28e-03	-0.13	-3.14e-05	-7.40e-06	0.0
241	45	4.25e-03	5.60e-04	-0.13	-3.06e-05	1.22e-05	0.0
241	52	-4.72e-03	1.12e-03	-0.12	-3.28e-06	-3.55e-05	0.0

241	53	1.05e-03	6.61e-03	-0.13	-4.07e-05	-4.85e-06	0.0
241	70	-3.85e-04	3.64e-04	-0.13	-1.81e-05	-2.00e-05	0.0
241	72	-2.56e-04	3.23e-04	-0.13	-1.61e-05	-1.33e-05	0.0
242	2	-3.35e-04	4.71e-04	-0.17	-2.33e-05	-1.77e-05	0.0
242	13	2.70e-03	4.88e-04	-0.13	-2.37e-05	8.69e-06	0.0
242	20	-2.93e-03	7.39e-04	-0.12	-8.04e-06	-2.02e-05	0.0
242	21	6.95e-04	4.17e-03	-0.13	-3.14e-05	-1.48e-06	0.0
242	45	4.35e-03	6.06e-04	-0.13	-2.88e-05	1.72e-05	0.0
242	52	-4.59e-03	9.92e-04	-0.12	-4.00e-06	-2.88e-05	0.0
242	53	1.17e-03	6.44e-03	-0.13	-4.09e-05	1.03e-06	0.0
242	70	-2.44e-04	3.54e-04	-0.13	-1.75e-05	-1.29e-05	0.0
242	72	-1.34e-04	3.14e-04	-0.13	-1.55e-05	-7.23e-06	0.0
243	2	-2.40e-04	4.63e-04	-0.17	-2.29e-05	-1.30e-05	0.0
243	4	-2.43e-04	3.72e-04	-0.13	-1.84e-05	-1.30e-05	0.0
243	13	2.73e-03	5.19e-04	-0.13	-2.27e-05	1.01e-05	0.0
243	20	-2.85e-03	6.56e-04	-0.12	-8.34e-06	-1.64e-05	0.0
243	21	7.43e-04	4.05e-03	-0.13	-3.13e-05	0.0	0.0
243	45	4.36e-03	6.57e-04	-0.13	-2.74e-05	1.79e-05	0.0
243	52	-4.50e-03	8.63e-04	-0.12	-4.69e-06	-2.41e-05	0.0
243	53	1.21e-03	6.26e-03	-0.13	-4.09e-05	3.16e-06	0.0
243	70	-1.73e-04	3.48e-04	-0.13	-1.72e-05	-9.37e-06	0.0
243	72	-7.61e-05	3.07e-04	-0.13	-1.52e-05	-4.35e-06	0.0
244	2	-2.06e-04	4.62e-04	-0.17	-2.27e-05	-1.12e-05	0.0
244	4	-2.11e-04	3.71e-04	-0.13	-1.83e-05	-1.13e-05	0.0
244	13	2.71e-03	5.55e-04	-0.13	-2.20e-05	9.18e-06	0.0
244	20	-2.80e-03	5.73e-04	-0.12	-8.75e-06	-1.40e-05	0.0
244	21	7.47e-04	3.94e-03	-0.13	-3.12e-05	1.07e-06	0.0
244	45	4.33e-03	7.15e-04	-0.13	-2.63e-05	1.60e-05	0.0
244	52	-4.43e-03	7.33e-04	-0.12	-5.42e-06	-2.08e-05	0.0
244	53	1.21e-03	6.09e-03	-0.13	-4.09e-05	3.10e-06	0.0
244	70	-1.48e-04	3.47e-04	-0.13	-1.71e-05	-8.06e-06	0.0
244	72	-6.10e-05	3.06e-04	-0.13	-1.50e-05	-3.54e-06	0.0
245	2	-1.97e-04	4.67e-04	-0.17	-2.29e-05	-1.06e-05	0.0
245	4	-1.99e-04	3.76e-04	-0.13	-1.84e-05	-1.06e-05	0.0
245	13	2.67e-03	5.96e-04	-0.13	-2.15e-05	7.20e-06	0.0
245	20	-2.77e-03	4.92e-04	-0.13	-9.25e-06	-1.24e-05	0.0
245	21	7.32e-04	3.83e-03	-0.13	-3.13e-05	0.0	0.0
245	45	4.27e-03	7.79e-04	-0.13	-2.55e-05	1.30e-05	0.0
245	52	-4.38e-03	6.03e-04	-0.12	-6.18e-06	-1.82e-05	0.0
245	53	1.19e-03	5.91e-03	-0.13	-4.09e-05	2.11e-06	0.0
245	70	-1.42e-04	3.50e-04	-0.13	-1.72e-05	-7.68e-06	0.0
245	72	-6.38e-05	3.08e-04	-0.13	-1.51e-05	-3.62e-06	0.0
246	2	-1.83e-04	4.76e-04	-0.17	-2.33e-05	-9.83e-06	0.0
246	13	2.63e-03	6.41e-04	-0.13	-2.12e-05	5.31e-06	0.0
246	20	-2.74e-03	4.11e-04	-0.13	-9.80e-06	-1.07e-05	0.0
246	21	7.19e-04	3.72e-03	-0.13	-3.13e-05	0.0	0.0
246	45	4.21e-03	8.47e-04	-0.13	-2.50e-05	1.00e-05	0.0
246	52	-4.33e-03	4.71e-04	-0.13	-6.94e-06	-1.54e-05	0.0
246	53	1.17e-03	5.73e-03	-0.13	-4.09e-05	1.18e-06	0.0
246	70	-1.33e-04	3.57e-04	-0.13	-1.75e-05	-7.15e-06	0.0
246	72	-6.47e-05	3.13e-04	-0.13	-1.53e-05	-3.60e-06	0.0
247	2	-1.51e-04	4.85e-04	-0.17	-2.37e-05	-8.17e-06	0.0
247	13	2.60e-03	6.88e-04	-0.13	-2.10e-05	4.04e-06	0.0
247	20	-2.70e-03	3.28e-04	-0.13	-1.03e-05	-8.54e-06	0.0
247	21	7.17e-04	3.61e-03	-0.13	-3.13e-05	0.0	0.0
247	45	4.16e-03	9.17e-04	-0.13	-2.45e-05	7.73e-06	0.0
247	52	-4.27e-03	3.36e-04	-0.13	-7.61e-06	-1.22e-05	0.0
247	53	1.16e-03	5.56e-03	-0.13	-4.08e-05	0.0	0.0
247	70	-1.10e-04	3.64e-04	-0.13	-1.77e-05	-5.94e-06	0.0
247	72	-5.32e-05	3.19e-04	-0.13	-1.56e-05	-2.99e-06	0.0
248	2	-1.10e-04	4.91e-04	-0.17	-2.39e-05	-6.08e-06	0.0
248	4	-1.13e-04	3.95e-04	-0.13	-1.92e-05	-6.15e-06	0.0
248	13	2.59e-03	7.28e-04	-0.13	-2.08e-05	3.38e-06	0.0
248	20	-2.65e-03	2.49e-04	-0.13	-1.06e-05	-6.17e-06	0.0
248	21	7.25e-04	3.51e-03	-0.13	-3.13e-05	0.0	0.0
248	45	4.13e-03	9.79e-04	-0.13	-2.41e-05	6.19e-06	0.0
248	52	-4.20e-03	2.10e-04	-0.13	-8.06e-06	-8.95e-06	0.0
248	53	1.16e-03	5.40e-03	-0.13	-4.06e-05	0.0	0.0
248	70	-7.98e-05	3.68e-04	-0.13	-1.79e-05	-4.41e-06	0.0
248	72	-3.43e-05	3.22e-04	-0.13	-1.57e-05	-2.02e-06	0.0
249	2	6.86e-04	7.89e-03	-0.24	-3.85e-04	3.67e-05	0.0
249	17	3.70e-03	6.55e-03	-0.17	-2.52e-04	3.39e-05	0.0
249	31	2.51e-04	8.75e-03	-0.18	-2.85e-04	1.49e-05	0.0
249	35	1.97e-05	8.43e-03	-0.18	-2.85e-04	1.37e-05	0.0
249	49	5.67e-03	7.51e-03	-0.17	-2.59e-04	4.24e-05	0.0
249	63	1.86e-04	0.01	-0.18	-3.12e-04	1.24e-05	0.0

249	67	-1.85e-04	0.01	-0.19	-3.12e-04	1.05e-05	0.0
249	70	5.08e-04	5.90e-03	-0.19	-2.88e-04	2.71e-05	0.0
249	72	3.92e-04	5.12e-03	-0.18	-2.50e-04	2.10e-05	0.0
250	2	-5.67e-05	4.93e-04	-0.17	-2.40e-05	-3.35e-06	0.0
250	4	-6.45e-05	3.97e-04	-0.13	-1.93e-05	-3.68e-06	0.0
250	20	-2.60e-03	1.48e-04	-0.13	-1.08e-05	-3.31e-06	0.0
250	21	7.37e-04	3.39e-03	-0.13	-3.11e-05	0.0	0.0
250	25	7.49e-04	3.14e-03	-0.13	-3.14e-05	0.0	0.0
250	52	-4.13e-03	4.96e-05	-0.13	-8.37e-06	-5.10e-06	0.0
250	53	1.17e-03	5.20e-03	-0.13	-4.04e-05	1.27e-06	0.0
250	57	1.19e-03	4.80e-03	-0.13	-4.08e-05	1.31e-06	0.0
250	70	-4.04e-05	3.69e-04	-0.13	-1.80e-05	-2.40e-06	0.0
250	72	-8.14e-06	3.23e-04	-0.13	-1.58e-05	0.0	0.0
251	2	-2.51e-05	4.91e-04	-0.17	-2.40e-05	-1.66e-06	0.0
251	4	-3.46e-05	3.96e-04	-0.13	-1.93e-05	-2.09e-06	0.0
251	17	2.58e-03	5.68e-04	-0.13	-1.95e-05	2.06e-06	0.0
251	21	7.40e-04	3.28e-03	-0.13	-3.09e-05	0.0	0.0
251	27	-7.85e-04	3.28e-03	-0.13	-3.09e-05	0.0	0.0
251	49	4.10e-03	7.22e-04	-0.13	-2.19e-05	3.05e-06	0.0
251	53	1.17e-03	5.03e-03	-0.13	-4.00e-05	1.24e-06	0.0
251	59	-1.25e-03	5.03e-03	-0.13	-4.00e-05	0.0	0.0
251	70	-1.73e-05	3.68e-04	-0.13	-1.80e-05	-1.17e-06	0.0
251	71	1.11e-05	3.10e-04	-0.13	-1.52e-05	0.0	0.0
251	72	5.41e-06	3.22e-04	-0.13	-1.57e-05	0.0	0.0
252	2	-1.44e-05	4.89e-04	-0.17	-2.39e-05	0.0	0.0
252	4	-2.21e-05	3.94e-04	-0.13	-1.93e-05	-1.33e-06	0.0
252	17	2.56e-03	6.63e-04	-0.13	-1.94e-05	1.03e-06	0.0
252	21	7.33e-04	3.17e-03	-0.13	-3.07e-05	0.0	0.0
252	27	-7.79e-04	3.16e-03	-0.13	-3.06e-05	0.0	0.0
252	49	4.06e-03	8.74e-04	-0.13	-2.18e-05	1.37e-06	0.0
252	53	1.16e-03	4.85e-03	-0.13	-3.96e-05	0.0	0.0
252	55	-1.23e-03	4.58e-03	-0.13	-3.98e-05	0.0	0.0
252	69	1.02e-05	3.09e-04	-0.13	-1.51e-05	0.0	0.0
252	70	-9.78e-06	3.66e-04	-0.13	-1.79e-05	0.0	0.0
252	71	1.02e-05	3.09e-04	-0.13	-1.51e-05	0.0	0.0
252	72	6.21e-06	3.20e-04	-0.13	-1.57e-05	0.0	0.0
253	2	-1.77e-05	4.89e-04	-0.17	-2.39e-05	0.0	0.0
253	4	-2.16e-05	3.94e-04	-0.13	-1.93e-05	-1.16e-06	0.0
253	17	2.54e-03	7.60e-04	-0.13	-1.94e-05	0.0	0.0
253	21	7.21e-04	3.05e-03	-0.13	-3.04e-05	0.0	0.0
253	27	-7.83e-04	3.05e-03	-0.13	-3.04e-05	0.0	0.0
253	49	4.03e-03	1.03e-03	-0.13	-2.18e-05	0.0	0.0
253	53	1.14e-03	4.67e-03	-0.13	-3.92e-05	0.0	0.0
253	59	-1.25e-03	4.67e-03	-0.13	-3.92e-05	0.0	0.0
253	70	-1.27e-05	3.66e-04	-0.13	-1.79e-05	0.0	0.0
253	71	1.67e-06	3.09e-04	-0.13	-1.51e-05	0.0	0.0
253	72	-1.21e-06	3.20e-04	-0.13	-1.57e-05	0.0	0.0
254	2	-2.26e-05	4.91e-04	-0.17	-2.40e-05	-1.06e-06	0.0
254	4	-2.27e-05	3.96e-04	-0.13	-1.94e-05	-1.09e-06	0.0
254	20	-2.53e-03	-2.40e-04	-0.13	-1.08e-05	0.0	0.0
254	21	7.10e-04	2.94e-03	-0.13	-3.01e-05	0.0	0.0
254	27	-7.88e-04	2.94e-03	-0.13	-3.01e-05	0.0	0.0
254	52	-4.02e-03	-5.65e-04	-0.13	-8.40e-06	0.0	0.0
254	53	1.13e-03	4.49e-03	-0.13	-3.87e-05	0.0	0.0
254	59	-1.25e-03	4.49e-03	-0.13	-3.87e-05	0.0	0.0
254	70	-1.67e-05	3.68e-04	-0.13	-1.80e-05	0.0	0.0
254	72	-8.59e-06	3.21e-04	-0.13	-1.57e-05	0.0	0.0
255	2	-2.01e-05	4.93e-04	-0.17	-2.41e-05	0.0	0.0
255	20	-2.53e-03	-3.37e-04	-0.13	-1.09e-05	0.0	0.0
255	27	-7.89e-04	2.83e-03	-0.13	-2.99e-05	0.0	0.0
255	52	-4.01e-03	-7.19e-04	-0.13	-8.42e-06	1.16e-06	0.0
255	59	-1.25e-03	4.32e-03	-0.13	-3.83e-05	0.0	0.0
255	70	-1.49e-05	3.69e-04	-0.13	-1.81e-05	0.0	0.0
255	72	-1.03e-05	3.23e-04	-0.13	-1.58e-05	0.0	0.0
256	2	-1.42e-05	4.94e-04	-0.17	-2.42e-05	0.0	0.0
256	20	-2.53e-03	-4.20e-04	-0.13	-1.11e-05	0.0	0.0
256	25	7.18e-04	2.75e-03	-0.13	-2.97e-05	0.0	0.0
256	35	-7.34e-04	2.74e-03	-0.13	-2.97e-05	0.0	0.0
256	52	-4.01e-03	-8.50e-04	-0.13	-8.65e-06	1.35e-06	0.0
256	57	1.15e-03	4.18e-03	-0.13	-3.79e-05	0.0	0.0
256	67	-1.16e-03	4.17e-03	-0.13	-3.79e-05	0.0	0.0
256	70	-1.06e-05	3.70e-04	-0.13	-1.81e-05	0.0	0.0
256	72	-8.68e-06	3.23e-04	-0.13	-1.58e-05	0.0	0.0
257	2	-1.39e-05	4.93e-04	-0.17	-2.42e-05	0.0	0.0
257	20	-2.53e-03	-4.36e-04	-0.13	-1.11e-05	0.0	0.0
257	29	7.60e-04	2.75e-03	-0.13	-2.97e-05	0.0	0.0

257	31	-7.23e-04	2.76e-03	-0.13	-2.98e-05	0.0	0.0
257	52	-4.01e-03	-8.75e-04	-0.13	-8.62e-06	1.33e-06	0.0
257	61	1.21e-03	4.19e-03	-0.13	-3.80e-05	-1.03e-06	0.0
257	63	-1.14e-03	4.20e-03	-0.13	-3.80e-05	0.0	0.0
257	70	-1.04e-05	3.70e-04	-0.13	-1.81e-05	0.0	0.0
257	72	-9.07e-06	3.23e-04	-0.13	-1.58e-05	0.0	0.0
258	1	-9.42e-06	4.04e-04	-0.17	-1.99e-05	0.0	0.0
258	2	-4.72e-06	4.91e-04	-0.17	-2.41e-05	0.0	0.0
258	20	-2.53e-03	-5.36e-04	-0.13	-1.10e-05	0.0	0.0
258	29	7.62e-04	2.82e-03	-0.13	-3.01e-05	0.0	0.0
258	31	-7.21e-04	2.87e-03	-0.13	-3.00e-05	0.0	0.0
258	52	-4.01e-03	-1.03e-03	-0.13	-8.49e-06	1.34e-06	0.0
258	61	1.21e-03	4.30e-03	-0.13	-3.86e-05	0.0	0.0
258	63	-1.14e-03	4.38e-03	-0.13	-3.85e-05	0.0	0.0
258	69	-6.72e-06	3.10e-04	-0.13	-1.52e-05	0.0	0.0
258	70	-3.59e-06	3.68e-04	-0.13	-1.81e-05	0.0	0.0
258	71	-6.72e-06	3.10e-04	-0.13	-1.52e-05	0.0	0.0
258	72	-6.09e-06	3.22e-04	-0.13	-1.58e-05	0.0	0.0
259	1	-1.42e-05	4.02e-04	-0.17	-1.98e-05	0.0	0.0
259	2	-2.49e-06	4.88e-04	-0.17	-2.40e-05	0.0	0.0
259	20	-2.54e-03	-6.38e-04	-0.13	-1.08e-05	0.0	0.0
259	29	7.61e-04	2.88e-03	-0.13	-3.04e-05	0.0	0.0
259	31	-7.26e-04	2.98e-03	-0.13	-3.03e-05	0.0	0.0
259	52	-4.02e-03	-1.19e-03	-0.13	-8.32e-06	0.0	0.0
259	61	1.22e-03	4.40e-03	-0.13	-3.91e-05	0.0	0.0
259	63	-1.15e-03	4.56e-03	-0.13	-3.90e-05	0.0	0.0
259	69	-9.91e-06	3.08e-04	-0.13	-1.52e-05	0.0	0.0
259	70	-2.12e-06	3.65e-04	-0.13	-1.80e-05	0.0	0.0
259	71	-9.91e-06	3.08e-04	-0.13	-1.52e-05	0.0	0.0
259	72	-8.35e-06	3.19e-04	-0.13	-1.57e-05	0.0	0.0
260	1	-2.40e-05	4.00e-04	-0.17	-1.97e-05	0.0	0.0
260	2	-4.50e-06	4.86e-04	-0.17	-2.39e-05	0.0	0.0
260	20	-2.55e-03	-7.39e-04	-0.13	-1.07e-05	0.0	0.0
260	29	7.58e-04	2.95e-03	-0.13	-3.06e-05	0.0	0.0
260	31	-7.36e-04	3.09e-03	-0.13	-3.05e-05	0.0	0.0
260	52	-4.05e-03	-1.35e-03	-0.13	-8.19e-06	0.0	0.0
260	61	1.21e-03	4.51e-03	-0.13	-3.96e-05	0.0	0.0
260	63	-1.16e-03	4.73e-03	-0.13	-3.94e-05	0.0	0.0
260	69	-1.70e-05	3.07e-04	-0.13	-1.51e-05	0.0	0.0
260	70	-3.97e-06	3.64e-04	-0.13	-1.79e-05	0.0	0.0
260	71	-1.70e-05	3.07e-04	-0.13	-1.51e-05	0.0	0.0
260	72	-1.44e-05	3.18e-04	-0.13	-1.57e-05	0.0	0.0
261	1	-3.00e-05	4.01e-04	-0.17	-1.97e-05	0.0	0.0
261	2	0.0	4.87e-04	-0.17	-2.39e-05	0.0	0.0
261	20	-2.58e-03	-8.38e-04	-0.13	-1.07e-05	-1.56e-06	0.0
261	29	7.60e-04	3.02e-03	-0.13	-3.09e-05	0.0	0.0
261	31	-7.45e-04	3.21e-03	-0.13	-3.08e-05	0.0	0.0
261	52	-4.08e-03	-1.51e-03	-0.13	-8.20e-06	-2.09e-06	0.0
261	61	1.22e-03	4.62e-03	-0.13	-4.00e-05	0.0	0.0
261	63	-1.17e-03	4.91e-03	-0.13	-3.98e-05	-1.17e-06	0.0
261	69	-2.10e-05	3.07e-04	-0.13	-1.51e-05	0.0	0.0
261	70	0.0	3.65e-04	-0.13	-1.79e-05	0.0	0.0
261	71	-2.10e-05	3.07e-04	-0.13	-1.51e-05	0.0	0.0
261	72	-1.70e-05	3.19e-04	-0.13	-1.57e-05	0.0	0.0
262	2	2.35e-05	4.89e-04	-0.17	-2.40e-05	2.07e-06	0.0
262	4	3.47e-05	3.94e-04	-0.13	-1.93e-05	2.50e-06	0.0
262	20	-2.59e-03	-9.35e-04	-0.13	-1.09e-05	-2.42e-06	0.0
262	29	7.73e-04	3.09e-03	-0.13	-3.12e-05	0.0	0.0
262	31	-7.45e-04	3.32e-03	-0.13	-3.10e-05	0.0	0.0
262	52	-4.11e-03	-1.66e-03	-0.13	-8.37e-06	-3.66e-06	0.0
262	61	1.24e-03	4.74e-03	-0.13	-4.04e-05	0.0	0.0
262	63	-1.18e-03	5.10e-03	-0.13	-4.01e-05	-1.36e-06	0.0
262	70	1.60e-05	3.66e-04	-0.13	-1.80e-05	1.47e-06	0.0
262	71	-1.47e-05	3.09e-04	-0.13	-1.52e-05	0.0	0.0
262	72	-8.53e-06	3.20e-04	-0.13	-1.58e-05	0.0	0.0
263	2	6.79e-05	4.90e-04	-0.17	-2.40e-05	4.27e-06	0.0
263	4	7.52e-05	3.94e-04	-0.13	-1.94e-05	4.52e-06	0.0
263	17	2.61e-03	1.65e-03	-0.13	-1.94e-05	4.25e-06	0.0
263	31	-7.35e-04	3.43e-03	-0.13	-3.12e-05	0.0	0.0
263	35	-7.47e-04	3.17e-03	-0.13	-3.15e-05	0.0	0.0
263	49	4.15e-03	2.44e-03	-0.13	-2.18e-05	6.35e-06	0.0
263	63	-1.17e-03	5.28e-03	-0.13	-4.04e-05	-1.13e-06	0.0
263	67	-1.19e-03	4.85e-03	-0.13	-4.09e-05	-1.18e-06	0.0
263	70	4.86e-05	3.67e-04	-0.13	-1.80e-05	3.08e-06	0.0
263	72	1.28e-05	3.21e-04	-0.13	-1.58e-05	1.14e-06	0.0
264	2	1.05e-04	4.88e-04	-0.17	-2.40e-05	6.06e-06	0.0

264	4	1.08e-04	3.93e-04	-0.13	-1.93e-05	6.14e-06	0.0
264	17	2.65e-03	1.72e-03	-0.13	-1.92e-05	6.11e-06	0.0
264	19	-2.59e-03	7.31e-04	-0.13	-2.09e-05	-3.33e-06	0.0
264	31	-7.25e-04	3.51e-03	-0.13	-3.13e-05	0.0	0.0
264	49	4.20e-03	2.55e-03	-0.13	-2.16e-05	8.86e-06	0.0
264	51	-4.13e-03	9.85e-04	-0.13	-2.42e-05	-6.10e-06	0.0
264	63	-1.16e-03	5.40e-03	-0.13	-4.05e-05	0.0	0.0
264	70	7.56e-05	3.66e-04	-0.13	-1.80e-05	4.40e-06	0.0
264	72	3.09e-05	3.20e-04	-0.13	-1.57e-05	2.01e-06	0.0
265	2	1.19e-04	4.86e-04	-0.17	-2.39e-05	6.77e-06	0.0
265	4	1.22e-04	3.91e-04	-0.13	-1.92e-05	6.80e-06	0.0
265	17	2.66e-03	1.75e-03	-0.13	-1.91e-05	6.88e-06	0.0
265	19	-2.59e-03	7.18e-04	-0.13	-2.09e-05	-3.53e-06	0.0
265	31	-7.22e-04	3.55e-03	-0.13	-3.13e-05	0.0	0.0
265	49	4.22e-03	2.59e-03	-0.13	-2.15e-05	9.91e-06	0.0
265	51	-4.14e-03	9.64e-04	-0.13	-2.43e-05	-6.59e-06	0.0
265	63	-1.16e-03	5.45e-03	-0.13	-4.06e-05	0.0	0.0
265	70	8.62e-05	3.64e-04	-0.13	-1.79e-05	4.92e-06	0.0
265	72	3.77e-05	3.19e-04	-0.13	-1.57e-05	2.34e-06	0.0
266	2	1.68e-04	4.78e-04	-0.17	-2.35e-05	9.18e-06	0.0
266	17	2.71e-03	1.84e-03	-0.13	-1.87e-05	9.50e-06	0.0
266	19	-2.61e-03	6.73e-04	-0.13	-2.11e-05	-4.28e-06	0.0
266	31	-7.13e-04	3.66e-03	-0.13	-3.13e-05	0.0	0.0
266	49	4.29e-03	2.74e-03	-0.13	-2.09e-05	1.35e-05	0.0
266	51	-4.17e-03	8.96e-04	-0.13	-2.47e-05	-8.33e-06	0.0
266	63	-1.16e-03	5.63e-03	-0.13	-4.07e-05	0.0	0.0
266	70	1.22e-04	3.59e-04	-0.13	-1.77e-05	6.68e-06	0.0
266	72	6.02e-05	3.15e-04	-0.13	-1.55e-05	3.45e-06	0.0
267	2	1.97e-04	4.68e-04	-0.17	-2.31e-05	1.07e-05	0.0
267	17	2.76e-03	1.93e-03	-0.13	-1.82e-05	1.16e-05	0.0
267	19	-2.64e-03	6.27e-04	-0.13	-2.13e-05	-5.70e-06	0.0
267	31	-7.16e-04	3.77e-03	-0.13	-3.12e-05	0.0	0.0
267	49	4.35e-03	2.89e-03	-0.13	-2.02e-05	1.67e-05	0.0
267	51	-4.22e-03	8.27e-04	-0.13	-2.52e-05	-1.08e-05	0.0
267	63	-1.17e-03	5.81e-03	-0.13	-4.08e-05	-1.18e-06	0.0
267	70	1.43e-04	3.51e-04	-0.13	-1.73e-05	7.75e-06	0.0
267	72	6.95e-05	3.09e-04	-0.13	-1.52e-05	3.93e-06	0.0
268	2	2.09e-04	4.60e-04	-0.17	-2.27e-05	1.14e-05	0.0
268	4	2.11e-04	3.70e-04	-0.13	-1.83e-05	1.14e-05	0.0
268	17	2.79e-03	2.02e-03	-0.13	-1.76e-05	1.33e-05	0.0
268	19	-2.67e-03	5.84e-04	-0.13	-2.16e-05	-7.65e-06	0.0
268	31	-7.30e-04	3.88e-03	-0.13	-3.11e-05	0.0	0.0
268	49	4.40e-03	3.03e-03	-0.12	-1.94e-05	1.94e-05	0.0
268	51	-4.28e-03	7.62e-04	-0.13	-2.58e-05	-1.38e-05	0.0
268	63	-1.19e-03	5.99e-03	-0.13	-4.08e-05	-2.15e-06	0.0
268	70	1.51e-04	3.45e-04	-0.13	-1.71e-05	8.24e-06	0.0
268	72	6.83e-05	3.04e-04	-0.13	-1.50e-05	3.92e-06	0.0
269	2	2.26e-04	4.58e-04	-0.17	-2.26e-05	1.23e-05	0.0
269	4	2.30e-04	3.68e-04	-0.13	-1.82e-05	1.24e-05	0.0
269	17	2.82e-03	2.12e-03	-0.12	-1.71e-05	1.51e-05	0.0
269	19	-2.71e-03	5.46e-04	-0.13	-2.22e-05	-9.35e-06	0.0
269	31	-7.38e-04	3.99e-03	-0.13	-3.11e-05	0.0	0.0
269	49	4.46e-03	3.18e-03	-0.12	-1.86e-05	2.23e-05	0.0
269	51	-4.33e-03	7.02e-04	-0.13	-2.67e-05	-1.65e-05	0.0
269	63	-1.20e-03	6.17e-03	-0.13	-4.07e-05	-2.92e-06	0.0
269	70	1.63e-04	3.44e-04	-0.13	-1.70e-05	8.91e-06	0.0
269	72	7.12e-05	3.03e-04	-0.13	-1.50e-05	4.12e-06	0.0
270	2	2.82e-04	4.62e-04	-0.17	-2.29e-05	1.51e-05	0.0
270	17	2.88e-03	2.21e-03	-0.12	-1.66e-05	1.81e-05	0.0
270	19	-2.71e-03	5.13e-04	-0.13	-2.30e-05	-9.42e-06	0.0
270	31	-7.19e-04	4.11e-03	-0.13	-3.11e-05	0.0	0.0
270	49	4.53e-03	3.33e-03	-0.12	-1.78e-05	2.62e-05	0.0
270	51	-4.35e-03	6.48e-04	-0.13	-2.79e-05	-1.75e-05	0.0
270	63	-1.19e-03	6.35e-03	-0.13	-4.06e-05	-1.92e-06	0.0
270	70	2.04e-04	3.47e-04	-0.13	-1.72e-05	1.10e-05	0.0
270	72	1.01e-04	3.07e-04	-0.13	-1.52e-05	5.64e-06	0.0
271	2	4.11e-04	4.73e-04	-0.17	-2.34e-05	2.16e-05	0.0
271	17	2.98e-03	2.31e-03	-0.12	-1.62e-05	2.30e-05	0.0
271	19	-2.65e-03	4.86e-04	-0.13	-2.42e-05	-6.59e-06	0.0
271	31	-6.46e-04	4.22e-03	-0.13	-3.11e-05	4.01e-06	0.0
271	49	4.64e-03	3.48e-03	-0.12	-1.68e-05	3.18e-05	0.0
271	51	-4.31e-03	6.01e-04	-0.13	-2.94e-05	-1.53e-05	0.0
271	63	-1.12e-03	6.53e-03	-0.13	-4.05e-05	1.53e-06	0.0
271	70	3.01e-04	3.56e-04	-0.13	-1.76e-05	1.58e-05	0.0
271	72	1.82e-04	3.15e-04	-0.13	-1.56e-05	9.69e-06	0.0
272	2	5.35e-04	4.82e-04	-0.17	-2.39e-05	2.77e-05	0.0

272	17	3.06e-03	2.36e-03	-0.12	-1.59e-05	2.72e-05	0.0
272	19	-2.58e-03	4.72e-04	-0.13	-2.50e-05	-2.98e-06	0.0
272	31	-5.69e-04	4.29e-03	-0.13	-3.11e-05	7.83e-06	0.0
272	49	4.73e-03	3.56e-03	-0.12	-1.61e-05	3.61e-05	0.0
272	51	-4.24e-03	5.75e-04	-0.13	-3.06e-05	-1.18e-05	0.0
272	63	-1.04e-03	6.63e-03	-0.13	-4.03e-05	5.33e-06	0.0
272	70	3.93e-04	3.63e-04	-0.13	-1.80e-05	2.04e-05	0.0
272	72	2.63e-04	3.22e-04	-0.13	-1.60e-05	1.37e-05	0.0
273	2	-4.72e-04	2.07e-03	-0.17	-1.03e-04	-2.48e-05	0.0
273	13	2.68e-03	1.53e-03	-0.13	-7.90e-05	6.03e-06	0.0
273	15	-3.13e-03	3.36e-03	-0.12	-6.48e-05	-2.63e-05	0.0
273	21	4.98e-04	5.34e-03	-0.13	-8.52e-05	-6.03e-06	0.0
273	45	4.36e-03	1.65e-03	-0.14	-8.64e-05	1.55e-05	0.0
273	47	-4.87e-03	4.55e-03	-0.12	-6.37e-05	-3.59e-05	0.0
273	53	9.02e-04	7.69e-03	-0.13	-9.61e-05	-3.67e-06	0.0
273	70	-3.46e-04	1.56e-03	-0.13	-7.74e-05	-1.82e-05	0.0
273	72	-2.20e-04	1.38e-03	-0.13	-6.87e-05	-1.17e-05	0.0
274	2	-2.98e-04	2.01e-03	-0.17	-9.97e-05	-1.61e-05	0.0
274	13	2.77e-03	1.51e-03	-0.13	-7.54e-05	1.08e-05	0.0
274	15	-3.01e-03	3.24e-03	-0.13	-6.41e-05	-2.01e-05	0.0
274	21	6.07e-04	5.19e-03	-0.13	-8.31e-05	0.0	0.0
274	45	4.45e-03	1.65e-03	-0.13	-8.18e-05	1.98e-05	0.0
274	47	-4.73e-03	4.38e-03	-0.12	-6.40e-05	-2.93e-05	0.0
274	53	1.01e-03	7.48e-03	-0.13	-9.40e-05	1.79e-06	0.0
274	70	-2.16e-04	1.51e-03	-0.13	-7.49e-05	-1.17e-05	0.0
274	72	-1.07e-04	1.34e-03	-0.13	-6.64e-05	-6.04e-06	0.0
275	2	-2.21e-04	1.97e-03	-0.17	-9.78e-05	-1.22e-05	0.0
275	4	-2.28e-04	1.58e-03	-0.13	-7.86e-05	-1.24e-05	0.0
275	13	2.79e-03	1.51e-03	-0.13	-7.27e-05	1.15e-05	0.0
275	20	-2.94e-03	1.60e-03	-0.13	-5.47e-05	-1.64e-05	0.0
275	21	6.46e-04	5.05e-03	-0.13	-8.15e-05	1.42e-06	0.0
275	45	4.45e-03	1.67e-03	-0.13	-7.85e-05	1.98e-05	0.0
275	52	-4.64e-03	1.79e-03	-0.12	-5.00e-05	-2.46e-05	0.0
275	53	1.05e-03	7.28e-03	-0.13	-9.25e-05	3.69e-06	0.0
275	70	-1.58e-04	1.48e-03	-0.13	-7.34e-05	-8.78e-06	0.0
275	72	-6.15e-05	1.31e-03	-0.13	-6.49e-05	-3.74e-06	0.0
276	2	-2.06e-04	1.96e-03	-0.17	-9.74e-05	-1.13e-05	0.0
276	4	-2.12e-04	1.58e-03	-0.13	-7.83e-05	-1.15e-05	0.0
276	13	2.75e-03	1.54e-03	-0.13	-7.13e-05	9.83e-06	0.0
276	20	-2.90e-03	1.51e-03	-0.13	-5.50e-05	-1.45e-05	0.0
276	21	6.40e-04	4.93e-03	-0.13	-8.09e-05	1.14e-06	0.0
276	45	4.40e-03	1.71e-03	-0.13	-7.66e-05	1.70e-05	0.0
276	52	-4.59e-03	1.66e-03	-0.13	-5.08e-05	-2.16e-05	0.0
276	53	1.04e-03	7.09e-03	-0.13	-9.17e-05	3.21e-06	0.0
276	70	-1.48e-04	1.47e-03	-0.13	-7.31e-05	-8.18e-06	0.0
276	72	-5.91e-05	1.30e-03	-0.13	-6.44e-05	-3.55e-06	0.0
277	2	-2.12e-04	1.99e-03	-0.17	-9.83e-05	-1.15e-05	0.0
277	13	2.70e-03	1.58e-03	-0.13	-7.10e-05	7.29e-06	0.0
277	20	-2.88e-03	1.44e-03	-0.13	-5.61e-05	-1.34e-05	0.0
277	21	6.17e-04	4.82e-03	-0.13	-8.11e-05	0.0	0.0
277	45	4.32e-03	1.78e-03	-0.13	-7.58e-05	1.34e-05	0.0
277	52	-4.54e-03	1.54e-03	-0.13	-5.23e-05	-1.95e-05	0.0
277	53	1.01e-03	6.92e-03	-0.13	-9.18e-05	1.97e-06	0.0
277	70	-1.53e-04	1.49e-03	-0.13	-7.38e-05	-8.34e-06	0.0
277	72	-7.23e-05	1.31e-03	-0.13	-6.49e-05	-4.12e-06	0.0
278	2	-2.05e-04	2.03e-03	-0.17	-1.00e-04	-1.10e-05	0.0
278	20	-2.85e-03	1.38e-03	-0.13	-5.76e-05	-1.19e-05	0.0
278	21	6.00e-04	4.73e-03	-0.13	-8.18e-05	0.0	0.0
278	25	6.50e-04	4.35e-03	-0.13	-8.23e-05	0.0	0.0
278	52	-4.49e-03	1.43e-03	-0.13	-5.41e-05	-1.69e-05	0.0
278	53	9.89e-04	6.76e-03	-0.13	-9.23e-05	0.0	0.0
278	57	1.07e-03	6.16e-03	-0.13	-9.31e-05	1.32e-06	0.0
278	70	-1.49e-04	1.52e-03	-0.13	-7.52e-05	-8.03e-06	0.0
278	72	-7.79e-05	1.33e-03	-0.13	-6.60e-05	-4.31e-06	0.0
279	2	-1.70e-04	2.07e-03	-0.18	-1.02e-04	-9.16e-06	0.0
279	20	-2.80e-03	1.32e-03	-0.13	-5.92e-05	-9.59e-06	0.0
279	21	6.01e-04	4.64e-03	-0.13	-8.25e-05	0.0	0.0
279	25	6.49e-04	4.30e-03	-0.13	-8.29e-05	0.0	0.0
279	52	-4.43e-03	1.32e-03	-0.13	-5.60e-05	-1.36e-05	0.0
279	53	9.84e-04	6.60e-03	-0.13	-9.28e-05	0.0	0.0
279	57	1.06e-03	6.07e-03	-0.13	-9.34e-05	1.07e-06	0.0
279	70	-1.24e-04	1.55e-03	-0.13	-7.66e-05	-6.67e-06	0.0
279	72	-6.42e-05	1.36e-03	-0.13	-6.72e-05	-3.58e-06	0.0
280	2	-1.19e-04	2.09e-03	-0.18	-1.03e-04	-6.59e-06	0.0
280	4	-1.21e-04	1.69e-03	-0.14	-8.31e-05	-6.58e-06	0.0
280	20	-2.75e-03	1.25e-03	-0.13	-6.02e-05	-6.68e-06	0.0

280	21	6.13e-04	4.55e-03	-0.13	-8.28e-05	0.0	0.0
280	25	6.61e-04	4.25e-03	-0.13	-8.31e-05	0.0	0.0
280	52	-4.36e-03	1.21e-03	-0.13	-5.72e-05	-9.62e-06	0.0
280	53	9.90e-04	6.45e-03	-0.13	-9.29e-05	1.13e-06	0.0
280	57	1.07e-03	5.98e-03	-0.13	-9.34e-05	1.37e-06	0.0
280	70	-8.64e-05	1.57e-03	-0.13	-7.74e-05	-4.78e-06	0.0
280	72	-3.93e-05	1.37e-03	-0.13	-6.78e-05	-2.31e-06	0.0
281	2	1.19e-03	7.22e-03	-0.24	-3.57e-04	6.21e-05	0.0
281	17	3.96e-03	6.18e-03	-0.17	-2.31e-04	4.53e-05	0.0
281	31	5.62e-04	8.32e-03	-0.18	-2.62e-04	3.00e-05	0.0
281	35	3.35e-04	7.96e-03	-0.18	-2.62e-04	2.92e-05	0.0
281	49	5.91e-03	7.14e-03	-0.17	-2.35e-04	5.19e-05	0.0
281	63	5.07e-04	0.01	-0.18	-2.84e-04	2.80e-05	0.0
281	67	1.45e-04	9.98e-03	-0.18	-2.84e-04	2.67e-05	0.0
281	70	8.83e-04	5.41e-03	-0.18	-2.67e-04	4.61e-05	0.0
281	72	7.01e-04	4.72e-03	-0.17	-2.33e-04	3.65e-05	0.0
282	2	-5.43e-05	2.10e-03	-0.18	-1.04e-04	-3.28e-06	0.0
282	4	-6.28e-05	1.69e-03	-0.14	-8.34e-05	-3.63e-06	0.0
282	17	2.69e-03	1.50e-03	-0.13	-7.04e-05	3.03e-06	0.0
282	21	6.32e-04	4.43e-03	-0.13	-8.27e-05	1.06e-06	0.0
282	25	6.79e-04	4.18e-03	-0.13	-8.29e-05	1.18e-06	0.0
282	49	4.27e-03	1.60e-03	-0.13	-7.32e-05	4.90e-06	0.0
282	53	1.00e-03	6.26e-03	-0.13	-9.26e-05	1.77e-06	0.0
282	57	1.08e-03	5.86e-03	-0.13	-9.29e-05	1.96e-06	0.0
282	70	-3.85e-05	1.57e-03	-0.13	-7.76e-05	-2.34e-06	0.0
282	72	-5.79e-06	1.38e-03	-0.13	-6.80e-05	0.0	0.0
283	2	-1.88e-05	2.09e-03	-0.18	-1.03e-04	-1.37e-06	0.0
283	4	-2.97e-05	1.68e-03	-0.14	-8.31e-05	-1.86e-06	0.0
283	14	2.67e-03	1.07e-04	-0.13	-6.07e-05	2.37e-06	0.0
283	21	6.37e-04	4.31e-03	-0.13	-8.21e-05	1.41e-06	0.0
283	27	-8.90e-04	4.31e-03	-0.13	-8.19e-05	0.0	0.0
283	46	4.24e-03	-6.05e-04	-0.13	-5.81e-05	3.41e-06	0.0
283	53	1.00e-03	6.07e-03	-0.13	-9.19e-05	1.89e-06	0.0
283	55	-1.35e-03	5.73e-03	-0.13	-9.18e-05	0.0	0.0
283	69	1.57e-05	1.32e-03	-0.13	-6.52e-05	0.0	0.0
283	70	-1.25e-05	1.56e-03	-0.13	-7.73e-05	0.0	0.0
283	71	1.57e-05	1.32e-03	-0.13	-6.52e-05	0.0	0.0
283	72	1.01e-05	1.37e-03	-0.13	-6.76e-05	0.0	0.0
284	2	-1.17e-05	2.08e-03	-0.18	-1.03e-04	0.0	0.0
284	4	-2.01e-05	1.67e-03	-0.14	-8.27e-05	-1.22e-06	0.0
284	17	2.65e-03	1.67e-03	-0.13	-6.96e-05	1.09e-06	0.0
284	21	6.29e-04	4.19e-03	-0.13	-8.15e-05	1.11e-06	0.0
284	23	-8.39e-04	4.02e-03	-0.13	-8.15e-05	0.0	0.0
284	49	4.20e-03	1.89e-03	-0.13	-7.22e-05	1.39e-06	0.0
284	53	9.92e-04	5.88e-03	-0.13	-9.12e-05	1.44e-06	0.0
284	55	-1.34e-03	5.62e-03	-0.13	-9.11e-05	0.0	0.0
284	69	1.23e-05	1.31e-03	-0.13	-6.49e-05	0.0	0.0
284	70	-7.70e-06	1.56e-03	-0.13	-7.69e-05	0.0	0.0
284	71	1.23e-05	1.31e-03	-0.13	-6.49e-05	0.0	0.0
284	72	8.30e-06	1.36e-03	-0.13	-6.73e-05	0.0	0.0
285	2	-2.19e-05	2.08e-03	-0.18	-1.03e-04	-1.12e-06	0.0
285	4	-2.50e-05	1.67e-03	-0.14	-8.27e-05	-1.28e-06	0.0
285	20	-2.62e-03	8.50e-04	-0.13	-6.01e-05	0.0	0.0
285	21	6.13e-04	4.08e-03	-0.13	-8.12e-05	0.0	0.0
285	23	-8.46e-04	3.95e-03	-0.13	-8.11e-05	0.0	0.0
285	52	-4.16e-03	5.78e-04	-0.13	-5.74e-05	0.0	0.0
285	53	9.74e-04	5.71e-03	-0.13	-9.06e-05	0.0	0.0
285	55	-1.34e-03	5.51e-03	-0.13	-9.05e-05	0.0	0.0
285	70	-1.58e-05	1.55e-03	-0.13	-7.69e-05	0.0	0.0
285	72	-3.85e-06	1.36e-03	-0.13	-6.73e-05	0.0	0.0
286	2	-3.10e-05	2.09e-03	-0.18	-1.03e-04	-1.42e-06	0.0
286	20	-2.62e-03	7.59e-04	-0.13	-6.04e-05	0.0	0.0
286	21	6.00e-04	3.97e-03	-0.13	-8.11e-05	0.0	0.0
286	23	-8.54e-04	3.89e-03	-0.13	-8.10e-05	0.0	0.0
286	52	-4.16e-03	4.30e-04	-0.13	-5.77e-05	0.0	0.0
286	53	9.60e-04	5.53e-03	-0.13	-9.03e-05	0.0	0.0
286	55	-1.35e-03	5.40e-03	-0.13	-9.02e-05	0.0	0.0
286	70	-2.29e-05	1.56e-03	-0.13	-7.73e-05	-1.05e-06	0.0
286	72	-1.41e-05	1.37e-03	-0.13	-6.76e-05	0.0	0.0
287	2	-2.64e-05	2.10e-03	-0.18	-1.04e-04	-1.10e-06	0.0
287	20	-2.62e-03	6.70e-04	-0.13	-6.08e-05	0.0	0.0
287	21	5.97e-04	3.86e-03	-0.13	-8.11e-05	0.0	0.0
287	27	-8.99e-04	3.86e-03	-0.13	-8.10e-05	0.0	0.0
287	52	-4.16e-03	2.84e-04	-0.13	-5.82e-05	0.0	0.0
287	53	9.57e-04	5.36e-03	-0.13	-9.01e-05	0.0	0.0
287	59	-1.42e-03	5.36e-03	-0.13	-8.99e-05	0.0	0.0

287	70	-1.96e-05	1.57e-03	-0.13	-7.77e-05	0.0	0.0
287	72	-1.44e-05	1.37e-03	-0.13	-6.80e-05	0.0	0.0
288	2	-1.52e-05	2.10e-03	-0.18	-1.04e-04	0.0	0.0
288	20	-2.61e-03	5.89e-04	-0.13	-6.12e-05	0.0	0.0
288	25	6.46e-04	3.78e-03	-0.13	-8.09e-05	0.0	0.0
288	27	-8.95e-04	3.78e-03	-0.13	-8.10e-05	0.0	0.0
288	52	-4.15e-03	1.56e-04	-0.13	-5.86e-05	1.32e-06	0.0
288	57	1.03e-03	5.22e-03	-0.13	-8.97e-05	0.0	0.0
288	59	-1.42e-03	5.22e-03	-0.13	-8.98e-05	0.0	0.0
288	70	-1.13e-05	1.57e-03	-0.13	-7.79e-05	0.0	0.0
288	72	-9.29e-06	1.38e-03	-0.13	-6.81e-05	0.0	0.0
289	2	-1.35e-05	2.10e-03	-0.18	-1.04e-04	0.0	0.0
289	20	-2.61e-03	5.74e-04	-0.13	-6.12e-05	0.0	0.0
289	29	8.33e-04	3.78e-03	-0.13	-8.09e-05	-1.21e-06	0.0
289	31	-6.17e-04	3.79e-03	-0.13	-8.10e-05	0.0	0.0
289	52	-4.15e-03	1.31e-04	-0.13	-5.86e-05	1.35e-06	0.0
289	61	1.33e-03	5.23e-03	-0.13	-8.97e-05	-1.75e-06	0.0
289	63	-9.76e-04	5.25e-03	-0.13	-8.98e-05	0.0	0.0
289	70	-1.00e-05	1.57e-03	-0.13	-7.79e-05	0.0	0.0
289	72	-8.75e-06	1.38e-03	-0.13	-6.81e-05	0.0	0.0
290	1	-3.93e-06	1.72e-03	-0.17	-8.53e-05	0.0	0.0
290	2	1.78e-06	2.09e-03	-0.18	-1.04e-04	0.0	0.0
290	15	-2.61e-03	1.94e-03	-0.13	-7.02e-05	1.01e-06	0.0
290	29	8.39e-04	3.85e-03	-0.13	-8.11e-05	0.0	0.0
290	31	-6.12e-04	3.90e-03	-0.13	-8.12e-05	0.0	0.0
290	47	-4.14e-03	2.31e-03	-0.13	-7.29e-05	1.55e-06	0.0
290	61	1.33e-03	5.33e-03	-0.13	-9.01e-05	-1.41e-06	0.0
290	63	-9.71e-04	5.42e-03	-0.13	-9.02e-05	0.0	0.0
290	69	-2.51e-06	1.32e-03	-0.13	-6.54e-05	0.0	0.0
290	70	1.29e-06	1.57e-03	-0.13	-7.76e-05	0.0	0.0
290	71	-2.51e-06	1.32e-03	-0.13	-6.54e-05	0.0	0.0
290	72	-1.75e-06	1.37e-03	-0.13	-6.78e-05	0.0	0.0
291	1	-8.71e-06	1.71e-03	-0.17	-8.47e-05	0.0	0.0
291	2	4.10e-06	2.08e-03	-0.18	-1.03e-04	0.0	0.0
291	20	-2.62e-03	3.61e-04	-0.13	-6.05e-05	0.0	0.0
291	29	8.38e-04	3.91e-03	-0.13	-8.11e-05	0.0	0.0
291	31	-6.16e-04	4.00e-03	-0.13	-8.12e-05	0.0	0.0
291	52	-4.16e-03	-1.97e-04	-0.13	-5.80e-05	1.15e-06	0.0
291	61	1.33e-03	5.44e-03	-0.13	-9.03e-05	-1.27e-06	0.0
291	63	-9.76e-04	5.59e-03	-0.13	-9.05e-05	0.0	0.0
291	69	-5.73e-06	1.31e-03	-0.13	-6.50e-05	0.0	0.0
291	70	2.82e-06	1.56e-03	-0.13	-7.71e-05	0.0	0.0
291	71	-5.73e-06	1.31e-03	-0.13	-6.50e-05	0.0	0.0
291	72	-4.02e-06	1.36e-03	-0.13	-6.74e-05	0.0	0.0
292	1	-2.36e-05	1.70e-03	-0.17	-8.44e-05	0.0	0.0
292	2	-3.75e-06	2.07e-03	-0.18	-1.03e-04	0.0	0.0
292	20	-2.64e-03	2.56e-04	-0.13	-6.02e-05	0.0	0.0
292	29	8.32e-04	3.97e-03	-0.13	-8.12e-05	0.0	0.0
292	31	-6.28e-04	4.11e-03	-0.13	-8.13e-05	0.0	0.0
292	52	-4.18e-03	-3.60e-04	-0.13	-5.76e-05	0.0	0.0
292	61	1.33e-03	5.54e-03	-0.13	-9.06e-05	-1.29e-06	0.0
292	63	-9.89e-04	5.77e-03	-0.13	-9.08e-05	-1.15e-06	0.0
292	69	-1.67e-05	1.30e-03	-0.13	-6.47e-05	0.0	0.0
292	70	-3.45e-06	1.55e-03	-0.13	-7.68e-05	0.0	0.0
292	71	-1.67e-05	1.30e-03	-0.13	-6.47e-05	0.0	0.0
292	72	-1.41e-05	1.35e-03	-0.13	-6.72e-05	0.0	0.0
293	1	-3.54e-05	1.71e-03	-0.17	-8.46e-05	-1.16e-06	0.0
293	2	-5.52e-06	2.07e-03	-0.18	-1.03e-04	0.0	0.0
293	20	-2.67e-03	1.60e-04	-0.13	-6.04e-05	-1.74e-06	0.0
293	29	8.31e-04	4.04e-03	-0.13	-8.15e-05	0.0	0.0
293	31	-6.40e-04	4.23e-03	-0.13	-8.16e-05	-1.42e-06	0.0
293	52	-4.22e-03	-5.15e-04	-0.13	-5.77e-05	-2.26e-06	0.0
293	61	1.34e-03	5.66e-03	-0.13	-9.12e-05	0.0	0.0
293	63	-1.00e-03	5.95e-03	-0.13	-9.13e-05	-1.78e-06	0.0
293	69	-2.52e-05	1.31e-03	-0.13	-6.49e-05	0.0	0.0
293	70	-5.29e-06	1.55e-03	-0.13	-7.69e-05	0.0	0.0
293	71	-2.52e-05	1.31e-03	-0.13	-6.49e-05	0.0	0.0
293	72	-2.12e-05	1.36e-03	-0.13	-6.73e-05	0.0	0.0
294	2	1.68e-05	2.09e-03	-0.18	-1.03e-04	1.80e-06	0.0
294	4	2.94e-05	1.68e-03	-0.14	-8.31e-05	2.30e-06	0.0
294	20	-2.69e-03	7.10e-05	-0.13	-6.09e-05	-2.74e-06	0.0
294	29	8.45e-04	4.12e-03	-0.13	-8.21e-05	0.0	0.0
294	31	-6.41e-04	4.35e-03	-0.13	-8.22e-05	-1.41e-06	0.0
294	52	-4.26e-03	-6.61e-04	-0.13	-5.83e-05	-4.06e-06	0.0
294	61	1.35e-03	5.78e-03	-0.13	-9.18e-05	0.0	0.0
294	63	-1.01e-03	6.14e-03	-0.13	-9.20e-05	-1.96e-06	0.0

294	69	-1.97e-05	1.32e-03	-0.13	-6.53e-05	0.0	0.0
294	70	1.08e-05	1.56e-03	-0.13	-7.73e-05	1.26e-06	0.0
294	71	-1.97e-05	1.32e-03	-0.13	-6.53e-05	0.0	0.0
294	72	-1.36e-05	1.37e-03	-0.13	-6.77e-05	0.0	0.0
295	2	6.85e-05	2.09e-03	-0.18	-1.03e-04	4.36e-06	0.0
295	4	7.59e-05	1.69e-03	-0.14	-8.33e-05	4.60e-06	0.0
295	17	2.70e-03	2.67e-03	-0.13	-6.97e-05	4.48e-06	0.0
295	31	-6.26e-04	4.47e-03	-0.13	-8.27e-05	0.0	0.0
295	35	-6.73e-04	4.20e-03	-0.13	-8.29e-05	0.0	0.0
295	49	4.29e-03	3.46e-03	-0.13	-7.21e-05	6.71e-06	0.0
295	63	-9.97e-04	6.33e-03	-0.13	-9.26e-05	-1.55e-06	0.0
295	67	-1.07e-03	5.90e-03	-0.13	-9.29e-05	-1.75e-06	0.0
295	70	4.89e-05	1.57e-03	-0.13	-7.76e-05	3.14e-06	0.0
295	72	1.25e-05	1.37e-03	-0.13	-6.79e-05	1.16e-06	0.0
296	2	1.14e-04	2.09e-03	-0.18	-1.03e-04	6.56e-06	0.0
296	4	1.16e-04	1.68e-03	-0.14	-8.31e-05	6.56e-06	0.0
296	17	2.74e-03	2.73e-03	-0.13	-6.93e-05	6.64e-06	0.0
296	31	-6.12e-04	4.55e-03	-0.13	-8.27e-05	0.0	0.0
296	35	-6.60e-04	4.25e-03	-0.13	-8.30e-05	0.0	0.0
296	49	4.35e-03	3.56e-03	-0.13	-7.15e-05	9.55e-06	0.0
296	63	-9.87e-04	6.45e-03	-0.13	-9.28e-05	-1.12e-06	0.0
296	67	-1.06e-03	5.98e-03	-0.13	-9.32e-05	-1.36e-06	0.0
296	70	8.22e-05	1.57e-03	-0.13	-7.73e-05	4.77e-06	0.0
296	72	3.60e-05	1.37e-03	-0.13	-6.78e-05	2.29e-06	0.0
297	2	1.32e-04	2.08e-03	-0.18	-1.03e-04	7.45e-06	0.0
297	4	1.32e-04	1.68e-03	-0.14	-8.28e-05	7.36e-06	0.0
297	17	2.76e-03	2.76e-03	-0.13	-6.90e-05	7.53e-06	0.0
297	31	-6.07e-04	4.58e-03	-0.13	-8.27e-05	0.0	0.0
297	35	-6.55e-04	4.27e-03	-0.13	-8.30e-05	0.0	0.0
297	49	4.37e-03	3.60e-03	-0.13	-7.12e-05	1.07e-05	0.0
297	63	-9.84e-04	6.50e-03	-0.13	-9.28e-05	0.0	0.0
297	67	-1.06e-03	6.01e-03	-0.13	-9.33e-05	-1.24e-06	0.0
297	70	9.57e-05	1.56e-03	-0.13	-7.71e-05	5.42e-06	0.0
297	72	4.52e-05	1.37e-03	-0.13	-6.76e-05	2.74e-06	0.0
298	2	1.90e-04	2.05e-03	-0.18	-1.01e-04	1.03e-05	0.0
298	17	2.82e-03	2.83e-03	-0.13	-6.76e-05	1.05e-05	0.0
298	31	-5.92e-04	4.68e-03	-0.13	-8.21e-05	0.0	0.0
298	35	-6.40e-04	4.32e-03	-0.13	-8.25e-05	0.0	0.0
298	49	4.45e-03	3.73e-03	-0.13	-6.96e-05	1.47e-05	0.0
298	63	-9.75e-04	6.67e-03	-0.13	-9.24e-05	0.0	0.0
298	67	-1.05e-03	6.11e-03	-0.13	-9.31e-05	0.0	0.0
298	70	1.39e-04	1.53e-03	-0.13	-7.60e-05	7.55e-06	0.0
298	72	7.40e-05	1.35e-03	-0.13	-6.67e-05	4.15e-06	0.0
299	2	2.20e-04	2.00e-03	-0.17	-9.92e-05	1.19e-05	0.0
299	17	2.86e-03	2.90e-03	-0.13	-6.60e-05	1.26e-05	0.0
299	19	-2.66e-03	1.62e-03	-0.13	-7.11e-05	-5.56e-06	0.0
299	31	-5.94e-04	4.77e-03	-0.13	-8.13e-05	0.0	0.0
299	49	4.51e-03	3.85e-03	-0.13	-6.77e-05	1.79e-05	0.0
299	51	-4.27e-03	1.83e-03	-0.13	-7.57e-05	-1.10e-05	0.0
299	63	-9.82e-04	6.83e-03	-0.13	-9.18e-05	0.0	0.0
299	70	1.60e-04	1.50e-03	-0.13	-7.44e-05	8.64e-06	0.0
299	72	8.32e-05	1.32e-03	-0.13	-6.54e-05	4.64e-06	0.0
300	2	2.22e-04	1.96e-03	-0.17	-9.75e-05	1.21e-05	0.0
300	4	2.22e-04	1.58e-03	-0.14	-7.84e-05	1.20e-05	0.0
300	17	2.89e-03	2.97e-03	-0.13	-6.46e-05	1.41e-05	0.0
300	19	-2.71e-03	1.57e-03	-0.13	-7.09e-05	-7.88e-06	0.0
300	31	-6.13e-04	4.87e-03	-0.13	-8.07e-05	0.0	0.0
300	49	4.56e-03	3.98e-03	-0.13	-6.59e-05	2.05e-05	0.0
300	51	-4.34e-03	1.76e-03	-0.13	-7.59e-05	-1.44e-05	0.0
300	63	-1.01e-03	6.99e-03	-0.13	-9.14e-05	-1.98e-06	0.0
300	70	1.61e-04	1.47e-03	-0.13	-7.32e-05	8.76e-06	0.0
300	72	7.47e-05	1.30e-03	-0.13	-6.45e-05	4.29e-06	0.0
301	2	2.22e-04	1.95e-03	-0.17	-9.70e-05	1.22e-05	0.0
301	4	2.27e-04	1.57e-03	-0.13	-7.80e-05	1.23e-05	0.0
301	17	2.92e-03	3.06e-03	-0.13	-6.37e-05	1.56e-05	0.0
301	19	-2.76e-03	1.53e-03	-0.13	-7.16e-05	-1.02e-05	0.0
301	31	-6.30e-04	4.98e-03	-0.13	-8.08e-05	0.0	0.0
301	49	4.61e-03	4.12e-03	-0.13	-6.46e-05	2.31e-05	0.0
301	51	-4.41e-03	1.70e-03	-0.13	-7.70e-05	-1.78e-05	0.0
301	63	-1.03e-03	7.17e-03	-0.13	-9.16e-05	-3.03e-06	0.0
301	70	1.59e-04	1.47e-03	-0.13	-7.28e-05	8.78e-06	0.0
301	72	6.57e-05	1.29e-03	-0.13	-6.43e-05	3.91e-06	0.0
302	2	2.57e-04	1.97e-03	-0.17	-9.80e-05	1.40e-05	0.0
302	4	2.59e-04	1.59e-03	-0.13	-7.87e-05	1.40e-05	0.0
302	17	2.97e-03	3.17e-03	-0.13	-6.36e-05	1.82e-05	0.0
302	19	-2.77e-03	1.51e-03	-0.13	-7.34e-05	-1.11e-05	0.0

302	31	-6.21e-04	5.11e-03	-0.13	-8.17e-05	0.0	0.0
302	49	4.68e-03	4.27e-03	-0.12	-6.39e-05	2.68e-05	0.0
302	51	-4.44e-03	1.67e-03	-0.13	-7.95e-05	-1.97e-05	0.0
302	63	-1.02e-03	7.37e-03	-0.13	-9.26e-05	-2.60e-06	0.0
302	70	1.86e-04	1.48e-03	-0.13	-7.36e-05	1.01e-05	0.0
302	72	8.28e-05	1.31e-03	-0.13	-6.52e-05	4.80e-06	0.0
303	2	3.70e-04	2.02e-03	-0.17	-1.01e-04	1.97e-05	0.0
303	17	3.06e-03	3.28e-03	-0.13	-6.40e-05	2.28e-05	0.0
303	19	-2.73e-03	1.52e-03	-0.13	-7.65e-05	-8.95e-06	0.0
303	31	-5.56e-04	5.26e-03	-0.13	-8.35e-05	2.87e-06	0.0
303	49	4.79e-03	4.44e-03	-0.12	-6.35e-05	3.22e-05	0.0
303	51	-4.41e-03	1.66e-03	-0.13	-8.33e-05	-1.82e-05	0.0
303	63	-9.57e-04	7.58e-03	-0.13	-9.44e-05	0.0	0.0
303	70	2.70e-04	1.52e-03	-0.13	-7.55e-05	1.43e-05	0.0
303	72	1.53e-04	1.35e-03	-0.13	-6.70e-05	8.31e-06	0.0
304	2	4.86e-04	2.06e-03	-0.17	-1.03e-04	2.54e-05	0.0
304	17	3.14e-03	3.36e-03	-0.12	-6.44e-05	2.68e-05	0.0
304	19	-2.66e-03	1.54e-03	-0.13	-7.88e-05	-5.64e-06	0.0
304	31	-4.82e-04	5.35e-03	-0.13	-8.48e-05	6.53e-06	0.0
304	49	4.87e-03	4.54e-03	-0.12	-6.33e-05	3.64e-05	0.0
304	51	-4.35e-03	1.66e-03	-0.14	-8.62e-05	-1.51e-05	0.0
304	63	-8.83e-04	7.71e-03	-0.13	-9.56e-05	4.24e-06	0.0
304	70	3.56e-04	1.55e-03	-0.13	-7.71e-05	1.86e-05	0.0
304	72	2.29e-04	1.38e-03	-0.13	-6.84e-05	1.21e-05	0.0
305	2	-3.58e-04	3.57e-03	-0.18	-1.78e-04	-1.94e-05	0.0
305	13	2.82e-03	2.54e-03	-0.14	-1.31e-04	1.15e-05	0.0
305	15	-3.18e-03	4.32e-03	-0.13	-1.11e-04	-2.46e-05	0.0
305	21	4.66e-04	6.38e-03	-0.14	-1.37e-04	-2.32e-06	0.0
305	45	4.55e-03	2.69e-03	-0.14	-1.40e-04	2.21e-05	0.0
305	47	-4.99e-03	5.50e-03	-0.13	-1.09e-04	-3.53e-05	0.0
305	53	8.05e-04	8.77e-03	-0.14	-1.49e-04	0.0	0.0
305	70	-2.59e-04	2.68e-03	-0.14	-1.33e-04	-1.41e-05	0.0
305	72	-1.40e-04	2.38e-03	-0.13	-1.18e-04	-7.89e-06	0.0
306	2	-2.15e-04	3.46e-03	-0.18	-1.72e-04	-1.23e-05	0.0
306	4	-2.27e-04	2.78e-03	-0.14	-1.38e-04	-1.27e-05	0.0
306	13	2.89e-03	2.48e-03	-0.14	-1.24e-04	1.50e-05	0.0
306	15	-3.07e-03	4.17e-03	-0.13	-1.09e-04	-1.91e-05	0.0
306	21	5.56e-04	6.19e-03	-0.14	-1.32e-04	2.17e-06	0.0
306	45	4.61e-03	2.64e-03	-0.14	-1.32e-04	2.50e-05	0.0
306	47	-4.87e-03	5.31e-03	-0.13	-1.09e-04	-2.91e-05	0.0
306	53	8.97e-04	8.52e-03	-0.14	-1.45e-04	4.58e-06	0.0
306	70	-1.53e-04	2.60e-03	-0.14	-1.29e-04	-8.80e-06	0.0
306	72	-4.79e-05	2.30e-03	-0.13	-1.14e-04	-3.31e-06	0.0
307	2	-1.80e-04	3.39e-03	-0.18	-1.68e-04	-1.05e-05	0.0
307	4	-1.96e-04	2.72e-03	-0.14	-1.35e-04	-1.11e-05	0.0
307	13	2.87e-03	2.45e-03	-0.14	-1.20e-04	1.41e-05	0.0
307	20	-3.02e-03	2.48e-03	-0.13	-9.81e-05	-1.61e-05	0.0
307	21	5.69e-04	6.02e-03	-0.14	-1.29e-04	2.94e-06	0.0
307	45	4.57e-03	2.63e-03	-0.14	-1.27e-04	2.31e-05	0.0
307	52	-4.79e-03	2.66e-03	-0.13	-9.24e-05	-2.49e-05	0.0
307	53	9.08e-04	8.28e-03	-0.14	-1.42e-04	5.26e-06	0.0
307	70	-1.27e-04	2.54e-03	-0.14	-1.26e-04	-7.46e-06	0.0
307	72	-2.95e-05	2.25e-03	-0.13	-1.12e-04	-2.36e-06	0.0
308	2	-2.10e-04	3.37e-03	-0.18	-1.68e-04	-1.19e-05	0.0
308	4	-2.17e-04	2.71e-03	-0.14	-1.35e-04	-1.20e-05	0.0
308	13	2.80e-03	2.47e-03	-0.14	-1.18e-04	1.07e-05	0.0
308	20	-3.00e-03	2.39e-03	-0.13	-9.83e-05	-1.52e-05	0.0
308	21	5.35e-04	5.89e-03	-0.14	-1.28e-04	1.31e-06	0.0
308	45	4.48e-03	2.66e-03	-0.14	-1.24e-04	1.84e-05	0.0
308	52	-4.75e-03	2.53e-03	-0.13	-9.32e-05	-2.28e-05	0.0
308	53	8.71e-04	8.08e-03	-0.14	-1.41e-04	3.48e-06	0.0
308	70	-1.50e-04	2.53e-03	-0.14	-1.26e-04	-8.52e-06	0.0
308	72	-5.73e-05	2.23e-03	-0.13	-1.11e-04	-3.65e-06	0.0
309	2	-2.54e-04	3.42e-03	-0.18	-1.70e-04	-1.38e-05	0.0
309	20	-3.00e-03	2.33e-03	-0.13	-1.00e-04	-1.54e-05	0.0
309	21	4.90e-04	5.79e-03	-0.14	-1.29e-04	0.0	0.0
309	25	5.78e-04	5.37e-03	-0.14	-1.30e-04	0.0	0.0
309	52	-4.73e-03	2.42e-03	-0.13	-9.54e-05	-2.18e-05	0.0
309	53	8.23e-04	7.92e-03	-0.14	-1.41e-04	1.28e-06	0.0
309	57	9.62e-04	7.25e-03	-0.14	-1.42e-04	1.94e-06	0.0
309	70	-1.84e-04	2.56e-03	-0.14	-1.27e-04	-1.00e-05	0.0
309	72	-9.58e-05	2.25e-03	-0.13	-1.12e-04	-5.44e-06	0.0
310	2	-2.63e-04	3.50e-03	-0.18	-1.73e-04	-1.41e-05	0.0
310	20	-2.98e-03	2.30e-03	-0.13	-1.03e-04	-1.43e-05	0.0
310	21	4.65e-04	5.72e-03	-0.14	-1.31e-04	-1.90e-06	0.0
310	25	5.50e-04	5.34e-03	-0.14	-1.31e-04	-1.55e-06	0.0

310	52	-4.69e-03	2.34e-03	-0.13	-9.85e-05	-1.97e-05	0.0
310	53	7.93e-04	7.78e-03	-0.14	-1.43e-04	0.0	0.0
310	57	9.31e-04	7.18e-03	-0.14	-1.44e-04	0.0	0.0
310	70	-1.92e-04	2.63e-03	-0.14	-1.30e-04	-1.03e-05	0.0
310	72	-1.13e-04	2.30e-03	-0.13	-1.14e-04	-6.15e-06	0.0
311	2	-2.16e-04	3.59e-03	-0.18	-1.77e-04	-1.16e-05	0.0
311	20	-2.93e-03	2.26e-03	-0.13	-1.06e-04	-1.17e-05	0.0
311	21	4.71e-04	5.65e-03	-0.14	-1.33e-04	-1.47e-06	0.0
311	25	5.56e-04	5.31e-03	-0.14	-1.33e-04	-1.16e-06	0.0
311	52	-4.62e-03	2.26e-03	-0.13	-1.02e-04	-1.62e-05	0.0
311	53	7.94e-04	7.64e-03	-0.14	-1.44e-04	0.0	0.0
311	57	9.30e-04	7.11e-03	-0.14	-1.45e-04	0.0	0.0
311	70	-1.58e-04	2.69e-03	-0.14	-1.33e-04	-8.49e-06	0.0
311	72	-9.24e-05	2.36e-03	-0.13	-1.17e-04	-5.06e-06	0.0
312	2	-1.40e-04	3.64e-03	-0.18	-1.79e-04	-7.72e-06	0.0
312	20	-2.86e-03	2.21e-03	-0.13	-1.08e-04	-7.76e-06	0.0
312	21	4.98e-04	5.57e-03	-0.14	-1.33e-04	0.0	0.0
312	25	5.82e-04	5.27e-03	-0.14	-1.34e-04	0.0	0.0
312	52	-4.53e-03	2.16e-03	-0.13	-1.04e-04	-1.10e-05	0.0
312	53	8.14e-04	7.50e-03	-0.14	-1.45e-04	1.17e-06	0.0
312	57	9.49e-04	7.03e-03	-0.14	-1.45e-04	1.60e-06	0.0
312	70	-1.01e-04	2.73e-03	-0.14	-1.35e-04	-5.61e-06	0.0
312	72	-5.09e-05	2.39e-03	-0.14	-1.18e-04	-2.95e-06	0.0
313	2	1.10e-03	6.83e-03	-0.24	-3.39e-04	5.74e-05	0.0
313	17	3.89e-03	6.04e-03	-0.17	-2.20e-04	4.17e-05	0.0
313	31	4.74e-04	8.19e-03	-0.18	-2.51e-04	2.57e-05	0.0
313	35	2.49e-04	7.78e-03	-0.18	-2.51e-04	2.50e-05	0.0
313	49	5.85e-03	7.04e-03	-0.17	-2.23e-04	4.86e-05	0.0
313	63	4.13e-04	0.01	-0.18	-2.72e-04	2.35e-05	0.0
313	67	5.24e-05	9.82e-03	-0.18	-2.73e-04	2.24e-05	0.0
313	70	8.15e-04	5.12e-03	-0.18	-2.54e-04	4.24e-05	0.0
313	72	6.25e-04	4.48e-03	-0.17	-2.22e-04	3.25e-05	0.0
314	2	-4.38e-05	3.64e-03	-0.18	-1.80e-04	-2.82e-06	0.0
314	4	-5.47e-05	2.93e-03	-0.14	-1.45e-04	-3.28e-06	0.0
314	14	2.80e-03	9.77e-04	-0.13	-1.09e-04	3.85e-06	0.0
314	21	5.34e-04	5.45e-03	-0.14	-1.33e-04	1.76e-06	0.0
314	25	6.17e-04	5.19e-03	-0.14	-1.33e-04	1.96e-06	0.0
314	46	4.44e-03	2.02e-04	-0.13	-1.06e-04	5.97e-06	0.0
314	53	8.42e-04	7.30e-03	-0.14	-1.44e-04	2.64e-06	0.0
314	57	9.74e-04	6.90e-03	-0.14	-1.45e-04	2.97e-06	0.0
314	70	-3.02e-05	2.73e-03	-0.14	-1.35e-04	-1.98e-06	0.0
314	71	1.11e-05	2.30e-03	-0.13	-1.14e-04	0.0	0.0
314	72	2.80e-06	2.38e-03	-0.14	-1.18e-04	0.0	0.0
315	1	4.19e-05	2.97e-03	-0.17	-1.47e-04	1.81e-06	0.0
315	2	1.18e-06	3.61e-03	-0.18	-1.78e-04	0.0	0.0
315	14	2.78e-03	1.05e-03	-0.13	-1.08e-04	3.18e-06	0.0
315	21	5.44e-04	5.31e-03	-0.14	-1.32e-04	2.39e-06	0.0
315	27	-9.87e-04	5.31e-03	-0.14	-1.32e-04	1.26e-06	0.0
315	46	4.40e-03	3.31e-04	-0.13	-1.05e-04	4.29e-06	0.0
315	53	8.47e-04	7.10e-03	-0.14	-1.43e-04	3.03e-06	0.0
315	55	-1.46e-03	6.76e-03	-0.14	-1.43e-04	1.47e-06	0.0
315	69	2.99e-05	2.28e-03	-0.13	-1.13e-04	1.27e-06	0.0
315	70	2.75e-06	2.70e-03	-0.14	-1.34e-04	0.0	0.0
315	71	2.99e-05	2.28e-03	-0.13	-1.13e-04	1.27e-06	0.0
315	72	2.45e-05	2.36e-03	-0.14	-1.17e-04	0.0	0.0
316	1	2.68e-05	2.94e-03	-0.17	-1.46e-04	1.25e-06	0.0
316	2	-2.66e-06	3.58e-03	-0.18	-1.77e-04	0.0	0.0
316	17	2.74e-03	2.63e-03	-0.13	-1.17e-04	1.32e-06	0.0
316	21	5.29e-04	5.18e-03	-0.14	-1.31e-04	1.82e-06	0.0
316	23	-9.07e-04	5.01e-03	-0.14	-1.31e-04	1.51e-06	0.0
316	49	4.35e-03	2.85e-03	-0.13	-1.20e-04	1.54e-06	0.0
316	53	8.30e-04	6.91e-03	-0.14	-1.42e-04	2.36e-06	0.0
316	55	-1.45e-03	6.64e-03	-0.14	-1.42e-04	1.90e-06	0.0
316	69	1.88e-05	2.26e-03	-0.13	-1.12e-04	0.0	0.0
316	70	0.0	2.68e-03	-0.14	-1.33e-04	0.0	0.0
316	71	1.88e-05	2.26e-03	-0.13	-1.12e-04	0.0	0.0
316	72	1.49e-05	2.34e-03	-0.14	-1.16e-04	0.0	0.0
317	2	-3.26e-05	3.58e-03	-0.18	-1.77e-04	-1.55e-06	0.0
317	4	-3.36e-05	2.88e-03	-0.14	-1.43e-04	-1.63e-06	0.0
317	20	-2.71e-03	1.78e-03	-0.13	-1.06e-04	0.0	0.0
317	21	5.03e-04	5.07e-03	-0.14	-1.30e-04	0.0	0.0
317	23	-9.24e-04	4.94e-03	-0.14	-1.30e-04	0.0	0.0
317	52	-4.31e-03	1.50e-03	-0.13	-1.03e-04	0.0	0.0
317	53	8.03e-04	6.72e-03	-0.14	-1.41e-04	1.17e-06	0.0
317	55	-1.46e-03	6.52e-03	-0.14	-1.41e-04	1.52e-06	0.0
317	70	-2.38e-05	2.68e-03	-0.14	-1.33e-04	-1.13e-06	0.0

317	72	-1.07e-05	2.34e-03	-0.14	-1.16e-04	0.0	0.0
318	2	-5.36e-05	3.60e-03	-0.18	-1.78e-04	-2.42e-06	0.0
318	20	-2.73e-03	1.70e-03	-0.13	-1.07e-04	0.0	0.0
318	21	4.84e-04	4.97e-03	-0.14	-1.31e-04	0.0	0.0
318	23	-9.39e-04	4.89e-03	-0.14	-1.30e-04	0.0	0.0
318	52	-4.32e-03	1.36e-03	-0.13	-1.04e-04	0.0	0.0
318	53	7.84e-04	6.56e-03	-0.14	-1.41e-04	0.0	0.0
318	55	-1.48e-03	6.43e-03	-0.14	-1.41e-04	1.01e-06	0.0
318	70	-3.99e-05	2.70e-03	-0.14	-1.34e-04	-1.80e-06	0.0
318	72	-2.91e-05	2.36e-03	-0.14	-1.17e-04	-1.28e-06	0.0
319	2	-4.32e-05	3.63e-03	-0.18	-1.80e-04	-1.85e-06	0.0
319	20	-2.72e-03	1.62e-03	-0.13	-1.08e-04	0.0	0.0
319	21	4.85e-04	4.87e-03	-0.14	-1.31e-04	0.0	0.0
319	27	-1.02e-03	4.87e-03	-0.14	-1.31e-04	0.0	0.0
319	52	-4.31e-03	1.23e-03	-0.13	-1.05e-04	0.0	0.0
319	53	7.85e-04	6.40e-03	-0.14	-1.41e-04	0.0	0.0
319	55	-1.47e-03	6.34e-03	-0.14	-1.41e-04	1.13e-06	0.0
319	70	-3.23e-05	2.72e-03	-0.14	-1.35e-04	-1.38e-06	0.0
319	72	-2.56e-05	2.38e-03	-0.14	-1.18e-04	-1.08e-06	0.0
320	2	-1.70e-05	3.64e-03	-0.18	-1.80e-04	0.0	0.0
320	20	-2.71e-03	1.55e-03	-0.13	-1.09e-04	0.0	0.0
320	25	5.77e-04	4.79e-03	-0.14	-1.31e-04	0.0	0.0
320	27	-1.00e-03	4.79e-03	-0.14	-1.31e-04	0.0	0.0
320	52	-4.30e-03	1.11e-03	-0.13	-1.06e-04	1.04e-06	0.0
320	57	9.24e-04	6.26e-03	-0.14	-1.41e-04	1.04e-06	0.0
320	59	-1.59e-03	6.25e-03	-0.14	-1.41e-04	1.53e-06	0.0
320	70	-1.27e-05	2.73e-03	-0.14	-1.35e-04	0.0	0.0
320	72	-1.05e-05	2.38e-03	-0.14	-1.18e-04	0.0	0.0
321	2	-1.13e-05	3.64e-03	-0.18	-1.80e-04	0.0	0.0
321	20	-2.70e-03	1.53e-03	-0.13	-1.09e-04	0.0	0.0
321	31	-5.13e-04	4.80e-03	-0.14	-1.31e-04	-1.12e-06	0.0
321	52	-4.29e-03	1.08e-03	-0.13	-1.06e-04	1.22e-06	0.0
321	63	-8.11e-04	6.28e-03	-0.14	-1.41e-04	-1.67e-06	0.0
321	67	-9.39e-04	6.27e-03	-0.14	-1.41e-04	-1.81e-06	0.0
321	70	-8.42e-06	2.73e-03	-0.14	-1.35e-04	0.0	0.0
321	72	-7.24e-06	2.38e-03	-0.14	-1.18e-04	0.0	0.0
322	2	2.13e-05	3.62e-03	-0.18	-1.79e-04	1.43e-06	0.0
322	14	2.71e-03	1.65e-03	-0.13	-1.08e-04	0.0	0.0
322	29	9.24e-04	4.85e-03	-0.14	-1.31e-04	0.0	0.0
322	31	-4.97e-04	4.90e-03	-0.14	-1.31e-04	0.0	0.0
322	46	4.30e-03	1.27e-03	-0.13	-1.04e-04	0.0	0.0
322	61	1.46e-03	6.36e-03	-0.14	-1.41e-04	-1.68e-06	0.0
322	63	-7.96e-04	6.45e-03	-0.14	-1.41e-04	0.0	0.0
322	70	1.60e-05	2.71e-03	-0.14	-1.34e-04	1.07e-06	0.0
322	72	1.13e-05	2.37e-03	-0.14	-1.17e-04	0.0	0.0
323	2	2.37e-05	3.58e-03	-0.18	-1.78e-04	1.73e-06	0.0
323	4	2.41e-05	2.89e-03	-0.14	-1.43e-04	1.67e-06	0.0
323	14	2.70e-03	1.72e-03	-0.13	-1.07e-04	0.0	0.0
323	29	9.23e-04	4.90e-03	-0.14	-1.30e-04	0.0	0.0
323	31	-5.00e-04	5.00e-03	-0.14	-1.30e-04	0.0	0.0
323	46	4.30e-03	1.40e-03	-0.13	-1.03e-04	0.0	0.0
323	61	1.46e-03	6.45e-03	-0.14	-1.41e-04	-1.52e-06	0.0
323	63	-7.99e-04	6.61e-03	-0.14	-1.41e-04	0.0	0.0
323	70	1.75e-05	2.68e-03	-0.14	-1.33e-04	1.28e-06	0.0
323	72	8.87e-06	2.34e-03	-0.14	-1.16e-04	0.0	0.0
324	1	-2.20e-05	2.93e-03	-0.17	-1.45e-04	0.0	0.0
324	2	-1.14e-06	3.56e-03	-0.18	-1.77e-04	0.0	0.0
324	20	-2.72e-03	1.19e-03	-0.13	-1.07e-04	0.0	0.0
324	29	9.08e-04	4.96e-03	-0.14	-1.30e-04	-1.35e-06	0.0
324	31	-5.21e-04	5.10e-03	-0.14	-1.30e-04	-1.19e-06	0.0
324	52	-4.32e-03	5.62e-04	-0.13	-1.04e-04	0.0	0.0
324	61	1.45e-03	6.55e-03	-0.14	-1.41e-04	-1.91e-06	0.0
324	63	-8.19e-04	6.78e-03	-0.14	-1.41e-04	-1.70e-06	0.0
324	69	-1.55e-05	2.25e-03	-0.13	-1.12e-04	0.0	0.0
324	70	-1.57e-06	2.67e-03	-0.14	-1.32e-04	0.0	0.0
324	71	-1.55e-05	2.25e-03	-0.13	-1.12e-04	0.0	0.0
324	72	-1.27e-05	2.33e-03	-0.14	-1.16e-04	0.0	0.0
325	1	-5.04e-05	2.94e-03	-0.17	-1.46e-04	-1.85e-06	0.0
325	2	-2.22e-05	3.57e-03	-0.18	-1.77e-04	0.0	0.0
325	20	-2.77e-03	1.09e-03	-0.13	-1.07e-04	-2.25e-06	0.0
325	29	8.96e-04	5.04e-03	-0.14	-1.31e-04	-1.75e-06	0.0
325	31	-5.43e-04	5.22e-03	-0.14	-1.31e-04	-2.23e-06	0.0
325	52	-4.38e-03	4.11e-04	-0.13	-1.04e-04	-2.75e-06	0.0
325	61	1.45e-03	6.67e-03	-0.14	-1.42e-04	-2.01e-06	0.0
325	63	-8.42e-04	6.97e-03	-0.14	-1.42e-04	-2.76e-06	0.0
325	69	-3.68e-05	2.26e-03	-0.13	-1.12e-04	-1.32e-06	0.0

325	70	-1.80e-05	2.68e-03	-0.14	-1.33e-04	0.0	0.0
325	71	-3.68e-05	2.26e-03	-0.13	-1.12e-04	-1.32e-06	0.0
325	72	-3.30e-05	2.34e-03	-0.14	-1.16e-04	-1.09e-06	0.0
326	1	-4.83e-05	2.97e-03	-0.17	-1.47e-04	-1.66e-06	0.0
326	2	-4.13e-06	3.61e-03	-0.18	-1.79e-04	0.0	0.0
326	20	-2.80e-03	1.02e-03	-0.13	-1.08e-04	-3.64e-06	0.0
326	31	-5.47e-04	5.36e-03	-0.14	-1.32e-04	-2.36e-06	0.0
326	33	9.90e-04	5.35e-03	-0.14	-1.32e-04	0.0	0.0
326	52	-4.42e-03	2.80e-04	-0.13	-1.05e-04	-5.08e-06	0.0
326	63	-8.48e-04	7.17e-03	-0.14	-1.43e-04	-3.06e-06	0.0
326	65	1.59e-03	7.17e-03	-0.14	-1.43e-04	0.0	0.0
326	69	-3.46e-05	2.28e-03	-0.13	-1.13e-04	-1.15e-06	0.0
326	70	-5.15e-06	2.70e-03	-0.14	-1.34e-04	0.0	0.0
326	71	-3.46e-05	2.28e-03	-0.13	-1.13e-04	-1.15e-06	0.0
326	72	-2.87e-05	2.36e-03	-0.14	-1.17e-04	0.0	0.0
327	2	6.64e-05	3.63e-03	-0.18	-1.80e-04	4.36e-06	0.0
327	4	7.46e-05	2.93e-03	-0.14	-1.45e-04	4.62e-06	0.0
327	20	-2.80e-03	9.43e-04	-0.13	-1.09e-04	-3.72e-06	0.0
327	31	-5.22e-04	5.49e-03	-0.14	-1.33e-04	-1.20e-06	0.0
327	35	-6.05e-04	5.22e-03	-0.14	-1.33e-04	-1.43e-06	0.0
327	52	-4.45e-03	1.49e-04	-0.13	-1.06e-04	-6.21e-06	0.0
327	63	-8.30e-04	7.37e-03	-0.14	-1.44e-04	-2.21e-06	0.0
327	67	-9.62e-04	6.95e-03	-0.14	-1.45e-04	-2.57e-06	0.0
327	70	4.70e-05	2.72e-03	-0.14	-1.35e-04	3.12e-06	0.0
327	72	9.35e-06	2.38e-03	-0.14	-1.18e-04	1.06e-06	0.0
328	2	1.34e-04	3.63e-03	-0.18	-1.79e-04	7.65e-06	0.0
328	17	2.86e-03	3.71e-03	-0.13	-1.18e-04	7.73e-06	0.0
328	31	-4.95e-04	5.57e-03	-0.14	-1.33e-04	0.0	0.0
328	35	-5.79e-04	5.27e-03	-0.14	-1.33e-04	0.0	0.0
328	49	4.52e-03	4.55e-03	-0.13	-1.20e-04	1.09e-05	0.0
328	63	-8.08e-04	7.50e-03	-0.14	-1.45e-04	-1.22e-06	0.0
328	67	-9.42e-04	7.03e-03	-0.14	-1.45e-04	-1.64e-06	0.0
328	70	9.71e-05	2.72e-03	-0.14	-1.34e-04	5.56e-06	0.0
328	72	4.74e-05	2.38e-03	-0.14	-1.18e-04	2.90e-06	0.0
329	2	1.62e-04	3.62e-03	-0.18	-1.79e-04	9.02e-06	0.0
329	17	2.88e-03	3.74e-03	-0.13	-1.17e-04	8.92e-06	0.0
329	31	-4.85e-04	5.60e-03	-0.14	-1.33e-04	0.0	0.0
329	35	-5.69e-04	5.29e-03	-0.14	-1.33e-04	0.0	0.0
329	49	4.55e-03	4.58e-03	-0.13	-1.19e-04	1.24e-05	0.0
329	63	-7.99e-04	7.55e-03	-0.14	-1.44e-04	0.0	0.0
329	67	-9.34e-04	7.05e-03	-0.14	-1.45e-04	-1.28e-06	0.0
329	70	1.18e-04	2.71e-03	-0.14	-1.34e-04	6.57e-06	0.0
329	72	6.30e-05	2.37e-03	-0.14	-1.17e-04	3.66e-06	0.0
330	2	2.48e-04	3.55e-03	-0.18	-1.76e-04	1.33e-05	0.0
330	14	2.95e-03	2.27e-03	-0.13	-1.04e-04	1.31e-05	0.0
330	31	-4.54e-04	5.68e-03	-0.14	-1.32e-04	2.04e-06	0.0
330	35	-5.39e-04	5.32e-03	-0.14	-1.32e-04	1.72e-06	0.0
330	46	4.64e-03	2.27e-03	-0.13	-1.00e-04	1.79e-05	0.0
330	63	-7.75e-04	7.70e-03	-0.14	-1.43e-04	0.0	0.0
330	67	-9.11e-04	7.14e-03	-0.14	-1.44e-04	0.0	0.0
330	70	1.81e-04	2.66e-03	-0.14	-1.32e-04	9.70e-06	0.0
330	72	1.09e-04	2.33e-03	-0.13	-1.16e-04	5.92e-06	0.0
331	2	2.79e-04	3.45e-03	-0.18	-1.71e-04	1.49e-05	0.0
331	14	3.00e-03	2.30e-03	-0.13	-1.01e-04	1.52e-05	0.0
331	31	-4.55e-04	5.74e-03	-0.14	-1.30e-04	2.04e-06	0.0
331	35	-5.41e-04	5.35e-03	-0.14	-1.30e-04	1.67e-06	0.0
331	46	4.71e-03	2.35e-03	-0.13	-9.69e-05	2.10e-05	0.0
331	63	-7.81e-04	7.83e-03	-0.14	-1.42e-04	0.0	0.0
331	67	-9.18e-04	7.21e-03	-0.14	-1.43e-04	0.0	0.0
331	70	2.03e-04	2.59e-03	-0.14	-1.29e-04	1.09e-05	0.0
331	72	1.18e-04	2.27e-03	-0.13	-1.13e-04	6.45e-06	0.0
332	2	2.55e-04	3.38e-03	-0.18	-1.68e-04	1.39e-05	0.0
332	17	3.01e-03	3.88e-03	-0.13	-1.09e-04	1.55e-05	0.0
332	31	-4.89e-04	5.82e-03	-0.14	-1.28e-04	0.0	0.0
332	35	-5.76e-04	5.38e-03	-0.14	-1.29e-04	0.0	0.0
332	49	4.74e-03	4.89e-03	-0.13	-1.10e-04	2.23e-05	0.0
332	63	-8.17e-04	7.98e-03	-0.14	-1.41e-04	-1.56e-06	0.0
332	67	-9.57e-04	7.29e-03	-0.14	-1.42e-04	-2.26e-06	0.0
332	70	1.84e-04	2.54e-03	-0.14	-1.26e-04	1.00e-05	0.0
332	72	9.19e-05	2.23e-03	-0.13	-1.11e-04	5.23e-06	0.0
333	2	2.11e-04	3.36e-03	-0.18	-1.67e-04	1.18e-05	0.0
333	4	2.20e-04	2.70e-03	-0.14	-1.34e-04	1.21e-05	0.0
333	17	3.01e-03	3.96e-03	-0.13	-1.08e-04	1.60e-05	0.0
333	19	-2.82e-03	2.46e-03	-0.14	-1.18e-04	-1.17e-05	0.0
333	31	-5.32e-04	5.93e-03	-0.14	-1.28e-04	-1.57e-06	0.0
333	49	4.77e-03	5.02e-03	-0.13	-1.09e-04	2.41e-05	0.0

333	51	-4.50e-03	2.64e-03	-0.14	-1.25e-04	-1.99e-05	0.0
333	63	-8.63e-04	8.16e-03	-0.14	-1.41e-04	-3.72e-06	0.0
333	70	1.51e-04	2.52e-03	-0.14	-1.25e-04	8.48e-06	0.0
333	72	5.41e-05	2.22e-03	-0.13	-1.11e-04	3.43e-06	0.0
334	2	2.02e-04	3.40e-03	-0.18	-1.69e-04	1.15e-05	0.0
334	4	2.16e-04	2.73e-03	-0.14	-1.36e-04	1.20e-05	0.0
334	17	3.04e-03	4.08e-03	-0.13	-1.08e-04	1.76e-05	0.0
334	19	-2.87e-03	2.46e-03	-0.14	-1.21e-04	-1.44e-05	0.0
334	31	-5.50e-04	6.08e-03	-0.14	-1.30e-04	-2.34e-06	0.0
334	49	4.83e-03	5.19e-03	-0.13	-1.08e-04	2.70e-05	0.0
334	51	-4.58e-03	2.64e-03	-0.14	-1.29e-04	-2.37e-05	0.0
334	63	-8.84e-04	8.38e-03	-0.14	-1.43e-04	-4.62e-06	0.0
334	70	1.43e-04	2.55e-03	-0.14	-1.27e-04	8.18e-06	0.0
334	72	4.14e-05	2.26e-03	-0.13	-1.12e-04	2.85e-06	0.0
335	2	2.78e-04	3.49e-03	-0.18	-1.73e-04	1.52e-05	0.0
335	4	2.78e-04	2.80e-03	-0.14	-1.39e-04	1.51e-05	0.0
335	17	3.12e-03	4.22e-03	-0.13	-1.10e-04	2.14e-05	0.0
335	19	-2.86e-03	2.51e-03	-0.14	-1.26e-04	-1.37e-05	0.0
335	31	-5.08e-04	6.27e-03	-0.14	-1.33e-04	0.0	0.0
335	49	4.93e-03	5.38e-03	-0.13	-1.08e-04	3.19e-05	0.0
335	51	-4.58e-03	2.67e-03	-0.14	-1.35e-04	-2.40e-05	0.0
335	63	-8.43e-04	8.63e-03	-0.14	-1.46e-04	-2.58e-06	0.0
335	70	1.99e-04	2.62e-03	-0.14	-1.30e-04	1.10e-05	0.0
335	72	8.75e-05	2.33e-03	-0.13	-1.16e-04	5.15e-06	0.0
336	2	3.75e-04	3.56e-03	-0.18	-1.77e-04	2.01e-05	0.0
336	17	3.19e-03	4.32e-03	-0.13	-1.11e-04	2.51e-05	0.0
336	19	-2.81e-03	2.55e-03	-0.14	-1.30e-04	-1.11e-05	0.0
336	31	-4.44e-04	6.38e-03	-0.14	-1.36e-04	2.90e-06	0.0
336	49	5.01e-03	5.49e-03	-0.13	-1.09e-04	3.58e-05	0.0
336	51	-4.53e-03	2.70e-03	-0.14	-1.40e-04	-2.17e-05	0.0
336	63	-7.78e-04	8.79e-03	-0.14	-1.49e-04	0.0	0.0
336	70	2.72e-04	2.68e-03	-0.14	-1.33e-04	1.46e-05	0.0
336	72	1.51e-04	2.38e-03	-0.13	-1.18e-04	8.30e-06	0.0
337	2	-1.76e-04	4.92e-03	-0.19	-2.45e-04	-1.09e-05	0.0
337	4	-1.97e-04	3.95e-03	-0.15	-1.96e-04	-1.17e-05	0.0
337	13	3.04e-03	3.46e-03	-0.15	-1.77e-04	2.01e-05	0.0
337	14	3.23e-03	1.15e-03	-0.14	-1.62e-04	2.05e-05	0.0
337	21	4.90e-04	7.34e-03	-0.14	-1.84e-04	3.99e-06	0.0
337	45	4.82e-03	3.63e-03	-0.15	-1.88e-04	3.23e-05	0.0
337	46	5.13e-03	-2.82e-05	-0.15	-1.65e-04	3.28e-05	0.0
337	53	7.71e-04	9.80e-03	-0.15	-2.00e-04	6.61e-06	0.0
337	70	-1.21e-04	3.70e-03	-0.14	-1.84e-04	-7.64e-06	0.0
337	71	1.36e-05	3.18e-03	-0.14	-1.58e-04	0.0	0.0
337	72	-1.33e-05	3.28e-03	-0.14	-1.63e-04	-1.91e-06	0.0
338	2	-8.26e-05	4.75e-03	-0.19	-2.36e-04	-6.26e-06	0.0
338	4	-1.22e-04	3.82e-03	-0.15	-1.90e-04	-7.90e-06	0.0
338	13	3.07e-03	3.35e-03	-0.14	-1.68e-04	2.17e-05	0.0
338	17	3.26e-03	2.70e-03	-0.14	-1.65e-04	2.13e-05	0.0
338	21	5.47e-04	7.11e-03	-0.14	-1.78e-04	7.39e-06	0.0
338	45	4.83e-03	3.53e-03	-0.15	-1.77e-04	3.31e-05	0.0
338	49	5.14e-03	2.50e-03	-0.15	-1.73e-04	3.25e-05	0.0
338	53	8.28e-04	9.49e-03	-0.15	-1.93e-04	1.03e-05	0.0
338	69	7.14e-05	3.06e-03	-0.14	-1.52e-04	2.41e-06	0.0
338	70	-5.15e-05	3.57e-03	-0.14	-1.77e-04	-4.16e-06	0.0
338	71	7.14e-05	3.06e-03	-0.14	-1.52e-04	2.41e-06	0.0
338	72	4.68e-05	3.16e-03	-0.14	-1.57e-04	1.09e-06	0.0
339	2	-1.14e-04	4.64e-03	-0.19	-2.31e-04	-7.71e-06	0.0
339	4	-1.45e-04	3.73e-03	-0.15	-1.85e-04	-8.95e-06	0.0
339	17	3.18e-03	2.68e-03	-0.14	-1.59e-04	1.76e-05	0.0
339	21	5.15e-04	6.90e-03	-0.14	-1.73e-04	5.47e-06	0.0
339	25	6.45e-04	6.39e-03	-0.14	-1.74e-04	6.34e-06	0.0
339	49	5.03e-03	2.52e-03	-0.15	-1.66e-04	2.72e-05	0.0
339	53	7.91e-04	9.22e-03	-0.15	-1.88e-04	7.92e-06	0.0
339	57	9.99e-04	8.41e-03	-0.15	-1.90e-04	9.31e-06	0.0
339	70	-7.58e-05	3.49e-03	-0.15	-1.73e-04	-5.28e-06	0.0
339	71	4.56e-05	2.98e-03	-0.14	-1.48e-04	1.18e-06	0.0
339	72	2.13e-05	3.08e-03	-0.14	-1.53e-04	0.0	0.0
340	2	-2.22e-04	4.62e-03	-0.19	-2.29e-04	-1.29e-05	0.0
340	4	-2.27e-04	3.71e-03	-0.15	-1.84e-04	-1.29e-05	0.0
340	20	-3.11e-03	3.17e-03	-0.14	-1.36e-04	-1.62e-05	0.0
340	21	4.32e-04	6.76e-03	-0.14	-1.72e-04	1.44e-06	0.0
340	25	5.58e-04	6.29e-03	-0.14	-1.73e-04	2.12e-06	0.0
340	52	-4.93e-03	3.29e-03	-0.13	-1.31e-04	-2.43e-05	0.0
340	53	7.05e-04	9.01e-03	-0.15	-1.87e-04	3.77e-06	0.0
340	57	9.07e-04	8.26e-03	-0.15	-1.88e-04	4.86e-06	0.0
340	70	-1.57e-04	3.47e-03	-0.15	-1.72e-04	-9.19e-06	0.0

340	72	-5.77e-05	3.05e-03	-0.14	-1.52e-04	-3.92e-06	0.0
341	2	-3.31e-04	4.69e-03	-0.19	-2.33e-04	-1.81e-05	0.0
341	20	-3.15e-03	3.12e-03	-0.14	-1.39e-04	-1.84e-05	0.0
341	21	3.47e-04	6.68e-03	-0.14	-1.73e-04	-2.60e-06	0.0
341	25	4.70e-04	6.25e-03	-0.14	-1.74e-04	-2.06e-06	0.0
341	52	-4.94e-03	3.20e-03	-0.14	-1.33e-04	-2.53e-05	0.0
341	53	6.19e-04	8.85e-03	-0.15	-1.88e-04	0.0	0.0
341	57	8.17e-04	8.18e-03	-0.15	-1.89e-04	0.0	0.0
341	70	-2.41e-04	3.52e-03	-0.15	-1.75e-04	-1.32e-05	0.0
341	72	-1.41e-04	3.09e-03	-0.14	-1.54e-04	-7.90e-06	0.0
342	2	-3.69e-04	4.84e-03	-0.19	-2.40e-04	-1.97e-05	0.0
342	20	-3.15e-03	3.12e-03	-0.14	-1.43e-04	-1.85e-05	0.0
342	21	3.04e-04	6.64e-03	-0.14	-1.76e-04	-4.54e-06	0.0
342	25	4.26e-04	6.26e-03	-0.14	-1.77e-04	-4.06e-06	0.0
342	52	-4.92e-03	3.15e-03	-0.14	-1.38e-04	-2.43e-05	0.0
342	53	5.74e-04	8.75e-03	-0.15	-1.91e-04	-2.32e-06	0.0
342	57	7.70e-04	8.14e-03	-0.15	-1.92e-04	-1.55e-06	0.0
342	70	-2.71e-04	3.63e-03	-0.15	-1.80e-04	-1.45e-05	0.0
342	72	-1.78e-04	3.18e-03	-0.14	-1.58e-04	-9.61e-06	0.0
343	2	-2.99e-04	4.99e-03	-0.19	-2.46e-04	-1.60e-05	0.0
343	20	-3.09e-03	3.13e-03	-0.14	-1.48e-04	-1.54e-05	0.0
343	21	3.25e-04	6.61e-03	-0.14	-1.80e-04	-3.39e-06	0.0
343	25	4.46e-04	6.27e-03	-0.14	-1.80e-04	-2.93e-06	0.0
343	52	-4.84e-03	3.11e-03	-0.14	-1.43e-04	-2.04e-05	0.0
343	53	5.89e-04	8.64e-03	-0.15	-1.94e-04	-1.42e-06	0.0
343	57	7.84e-04	8.10e-03	-0.15	-1.94e-04	0.0	0.0
343	70	-2.19e-04	3.74e-03	-0.15	-1.85e-04	-1.18e-05	0.0
343	72	-1.44e-04	3.27e-03	-0.14	-1.62e-04	-7.78e-06	0.0
344	2	-1.71e-04	5.07e-03	-0.19	-2.50e-04	-9.43e-06	0.0
344	20	-2.99e-03	3.10e-03	-0.14	-1.51e-04	-9.47e-06	0.0
344	21	3.81e-04	6.55e-03	-0.14	-1.81e-04	0.0	0.0
344	25	5.01e-04	6.24e-03	-0.14	-1.82e-04	0.0	0.0
344	52	-4.72e-03	3.04e-03	-0.14	-1.47e-04	-1.32e-05	0.0
344	53	6.37e-04	8.52e-03	-0.15	-1.95e-04	1.10e-06	0.0
344	57	8.30e-04	8.04e-03	-0.15	-1.95e-04	1.76e-06	0.0
344	70	-1.24e-04	3.80e-03	-0.15	-1.87e-04	-6.86e-06	0.0
344	72	-6.83e-05	3.32e-03	-0.14	-1.64e-04	-3.90e-06	0.0
345	2	6.77e-04	6.58e-03	-0.23	-3.27e-04	3.58e-05	0.0
345	17	3.64e-03	5.98e-03	-0.17	-2.13e-04	2.91e-05	0.0
345	31	1.53e-04	8.15e-03	-0.18	-2.44e-04	9.87e-06	0.0
345	35	-7.42e-05	7.70e-03	-0.18	-2.44e-04	9.06e-06	0.0
345	49	5.62e-03	7.04e-03	-0.17	-2.16e-04	3.71e-05	0.0
345	63	7.29e-05	0.01	-0.18	-2.65e-04	6.84e-06	0.0
345	67	-2.91e-04	9.77e-03	-0.18	-2.66e-04	5.55e-06	0.0
345	70	4.93e-04	4.94e-03	-0.18	-2.45e-04	2.61e-05	0.0
345	72	3.30e-04	4.33e-03	-0.17	-2.15e-04	1.76e-05	0.0
346	1	4.70e-05	4.16e-03	-0.18	-2.06e-04	1.96e-06	0.0
346	2	-1.37e-05	5.05e-03	-0.19	-2.49e-04	-1.30e-06	0.0
346	14	2.92e-03	1.84e-03	-0.14	-1.52e-04	5.57e-06	0.0
346	21	4.50e-04	6.41e-03	-0.14	-1.80e-04	3.20e-06	0.0
346	25	5.68e-04	6.15e-03	-0.14	-1.81e-04	3.50e-06	0.0
346	46	4.63e-03	1.05e-03	-0.14	-1.48e-04	8.04e-06	0.0
346	53	6.96e-04	8.30e-03	-0.15	-1.94e-04	4.27e-06	0.0
346	57	8.85e-04	7.90e-03	-0.15	-1.94e-04	4.74e-06	0.0
346	69	3.33e-05	3.19e-03	-0.14	-1.58e-04	1.36e-06	0.0
346	70	-7.10e-06	3.78e-03	-0.15	-1.87e-04	0.0	0.0
346	71	3.33e-05	3.19e-03	-0.14	-1.58e-04	1.36e-06	0.0
346	72	2.52e-05	3.31e-03	-0.14	-1.63e-04	0.0	0.0
347	1	8.29e-05	4.09e-03	-0.18	-2.03e-04	3.91e-06	0.0
347	2	4.73e-05	4.97e-03	-0.19	-2.46e-04	1.97e-06	0.0
347	14	2.91e-03	1.89e-03	-0.14	-1.49e-04	4.91e-06	0.0
347	21	4.69e-04	6.25e-03	-0.14	-1.78e-04	4.27e-06	0.0
347	27	-1.07e-03	6.24e-03	-0.14	-1.78e-04	3.07e-06	0.0
347	46	4.58e-03	1.15e-03	-0.14	-1.46e-04	6.08e-06	0.0
347	53	7.08e-04	8.08e-03	-0.15	-1.91e-04	5.06e-06	0.0
347	59	-1.73e-03	8.07e-03	-0.15	-1.91e-04	3.18e-06	0.0
347	69	6.14e-05	3.14e-03	-0.14	-1.55e-04	2.89e-06	0.0
347	70	3.78e-05	3.73e-03	-0.15	-1.84e-04	1.60e-06	0.0
347	71	6.14e-05	3.14e-03	-0.14	-1.55e-04	2.89e-06	0.0
347	72	5.67e-05	3.25e-03	-0.14	-1.61e-04	2.63e-06	0.0
348	1	4.48e-05	4.04e-03	-0.18	-2.00e-04	2.24e-06	0.0
348	2	1.74e-05	4.91e-03	-0.19	-2.44e-04	0.0	0.0
348	14	2.84e-03	1.95e-03	-0.14	-1.48e-04	1.92e-06	0.0
348	21	4.39e-04	6.09e-03	-0.14	-1.76e-04	2.99e-06	0.0
348	23	-9.66e-04	5.92e-03	-0.14	-1.76e-04	2.75e-06	0.0
348	46	4.50e-03	1.27e-03	-0.14	-1.44e-04	1.99e-06	0.0

348	53	6.78e-04	7.86e-03	-0.15	-1.89e-04	3.76e-06	0.0
348	55	-1.55e-03	7.59e-03	-0.15	-1.89e-04	3.44e-06	0.0
348	69	3.27e-05	3.10e-03	-0.14	-1.54e-04	1.63e-06	0.0
348	70	1.45e-05	3.68e-03	-0.15	-1.82e-04	0.0	0.0
348	71	3.27e-05	3.10e-03	-0.14	-1.54e-04	1.63e-06	0.0
348	72	2.91e-05	3.21e-03	-0.14	-1.59e-04	1.44e-06	0.0
349	2	-5.51e-05	4.91e-03	-0.19	-2.44e-04	-2.52e-06	0.0
349	20	-2.81e-03	2.60e-03	-0.14	-1.47e-04	0.0	0.0
349	21	3.88e-04	5.98e-03	-0.14	-1.76e-04	0.0	0.0
349	23	-1.01e-03	5.85e-03	-0.14	-1.75e-04	0.0	0.0
349	52	-4.46e-03	2.31e-03	-0.14	-1.43e-04	0.0	0.0
349	53	6.30e-04	7.68e-03	-0.15	-1.88e-04	1.52e-06	0.0
349	55	-1.59e-03	7.47e-03	-0.15	-1.88e-04	2.03e-06	0.0
349	70	-4.06e-05	3.68e-03	-0.15	-1.82e-04	-1.86e-06	0.0
349	72	-2.53e-05	3.21e-03	-0.14	-1.59e-04	-1.10e-06	0.0
350	2	-1.02e-04	4.97e-03	-0.19	-2.46e-04	-4.65e-06	0.0
350	20	-2.85e-03	2.54e-03	-0.14	-1.48e-04	-1.75e-06	0.0
350	21	3.55e-04	5.90e-03	-0.14	-1.76e-04	0.0	0.0
350	23	-1.04e-03	5.81e-03	-0.14	-1.76e-04	0.0	0.0
350	52	-4.50e-03	2.19e-03	-0.14	-1.44e-04	-1.35e-06	0.0
350	53	5.98e-04	7.52e-03	-0.15	-1.89e-04	0.0	0.0
350	55	-1.62e-03	7.39e-03	-0.15	-1.88e-04	0.0	0.0
350	70	-7.63e-05	3.72e-03	-0.15	-1.84e-04	-3.48e-06	0.0
350	72	-6.13e-05	3.25e-03	-0.14	-1.61e-04	-2.77e-06	0.0
351	2	-7.92e-05	5.04e-03	-0.19	-2.49e-04	-3.51e-06	0.0
351	20	-2.85e-03	2.49e-03	-0.14	-1.51e-04	-1.35e-06	0.0
351	21	3.65e-04	5.82e-03	-0.14	-1.78e-04	0.0	0.0
351	27	-1.15e-03	5.82e-03	-0.14	-1.77e-04	0.0	0.0
351	52	-4.50e-03	2.08e-03	-0.14	-1.47e-04	-1.06e-06	0.0
351	53	6.07e-04	7.38e-03	-0.15	-1.90e-04	0.0	0.0
351	55	-1.61e-03	7.32e-03	-0.15	-1.89e-04	0.0	0.0
351	70	-5.93e-05	3.78e-03	-0.15	-1.87e-04	-2.63e-06	0.0
351	72	-4.95e-05	3.30e-03	-0.14	-1.63e-04	-2.19e-06	0.0
352	2	-2.03e-05	5.06e-03	-0.19	-2.50e-04	0.0	0.0
352	20	-2.81e-03	2.42e-03	-0.14	-1.52e-04	0.0	0.0
352	25	5.10e-04	5.74e-03	-0.14	-1.78e-04	1.06e-06	0.0
352	27	-1.12e-03	5.74e-03	-0.14	-1.78e-04	1.24e-06	0.0
352	52	-4.46e-03	1.97e-03	-0.14	-1.49e-04	0.0	0.0
352	57	8.19e-04	7.25e-03	-0.15	-1.89e-04	1.94e-06	0.0
352	59	-1.77e-03	7.24e-03	-0.15	-1.90e-04	2.16e-06	0.0
352	70	-1.51e-05	3.79e-03	-0.15	-1.87e-04	0.0	0.0
352	72	-1.25e-05	3.31e-03	-0.14	-1.64e-04	0.0	0.0
353	2	-6.62e-06	5.06e-03	-0.19	-2.50e-04	0.0	0.0
353	15	-2.80e-03	3.94e-03	-0.14	-1.64e-04	0.0	0.0
353	31	-4.12e-04	5.76e-03	-0.14	-1.78e-04	-1.71e-06	0.0
353	35	-5.27e-04	5.75e-03	-0.14	-1.78e-04	-1.76e-06	0.0
353	47	-4.45e-03	4.38e-03	-0.14	-1.68e-04	1.09e-06	0.0
353	63	-6.52e-04	7.27e-03	-0.15	-1.90e-04	-2.73e-06	0.0
353	67	-8.36e-04	7.26e-03	-0.15	-1.90e-04	-2.84e-06	0.0
353	70	-4.83e-06	3.79e-03	-0.15	-1.87e-04	0.0	0.0
353	72	-3.88e-06	3.31e-03	-0.14	-1.64e-04	0.0	0.0
354	2	6.59e-05	5.00e-03	-0.19	-2.48e-04	3.71e-06	0.0
354	14	2.83e-03	2.50e-03	-0.14	-1.50e-04	1.37e-06	0.0
354	29	1.02e-03	5.78e-03	-0.14	-1.77e-04	0.0	0.0
354	31	-3.70e-04	5.84e-03	-0.14	-1.77e-04	0.0	0.0
354	46	4.48e-03	2.11e-03	-0.14	-1.46e-04	1.01e-06	0.0
354	61	1.60e-03	7.33e-03	-0.15	-1.89e-04	-1.28e-06	0.0
354	63	-6.11e-04	7.42e-03	-0.15	-1.90e-04	0.0	0.0
354	70	4.95e-05	3.75e-03	-0.15	-1.86e-04	2.78e-06	0.0
354	72	4.10e-05	3.27e-03	-0.14	-1.62e-04	2.29e-06	0.0
355	2	6.74e-05	4.93e-03	-0.19	-2.45e-04	3.96e-06	0.0
355	14	2.82e-03	2.55e-03	-0.14	-1.47e-04	0.0	0.0
355	29	1.02e-03	5.80e-03	-0.14	-1.75e-04	0.0	0.0
355	31	-3.72e-04	5.91e-03	-0.14	-1.76e-04	0.0	0.0
355	46	4.46e-03	2.22e-03	-0.14	-1.44e-04	0.0	0.0
355	61	1.60e-03	7.40e-03	-0.15	-1.88e-04	-1.20e-06	0.0
355	63	-6.11e-04	7.56e-03	-0.15	-1.88e-04	0.0	0.0
355	70	5.03e-05	3.69e-03	-0.15	-1.83e-04	2.95e-06	0.0
355	72	3.77e-05	3.22e-03	-0.14	-1.60e-04	2.22e-06	0.0
356	1	-1.76e-05	4.01e-03	-0.18	-2.00e-04	0.0	0.0
356	2	5.17e-06	4.89e-03	-0.19	-2.43e-04	1.06e-06	0.0
356	20	-2.80e-03	2.00e-03	-0.14	-1.47e-04	0.0	0.0
356	29	9.84e-04	5.85e-03	-0.14	-1.75e-04	-1.74e-06	0.0
356	31	-4.13e-04	6.00e-03	-0.14	-1.75e-04	-1.47e-06	0.0
356	52	-4.45e-03	1.37e-03	-0.14	-1.44e-04	1.11e-06	0.0
356	61	1.57e-03	7.49e-03	-0.15	-1.88e-04	-2.64e-06	0.0

356	63	-6.49e-04	7.72e-03	-0.15	-1.88e-04	-2.24e-06	0.0
356	69	-1.21e-05	3.08e-03	-0.14	-1.53e-04	0.0	0.0
356	70	3.05e-06	3.66e-03	-0.15	-1.82e-04	0.0	0.0
356	71	-1.21e-05	3.08e-03	-0.14	-1.53e-04	0.0	0.0
356	72	-9.09e-06	3.20e-03	-0.14	-1.59e-04	0.0	0.0
357	1	-8.25e-05	4.04e-03	-0.18	-2.01e-04	-3.41e-06	0.0
357	2	-5.86e-05	4.91e-03	-0.19	-2.44e-04	-1.90e-06	0.0
357	20	-2.88e-03	1.91e-03	-0.14	-1.48e-04	-3.32e-06	0.0
357	29	9.49e-04	5.95e-03	-0.14	-1.76e-04	-3.33e-06	0.0
357	31	-4.60e-04	6.13e-03	-0.14	-1.76e-04	-3.74e-06	0.0
357	52	-4.54e-03	1.22e-03	-0.14	-1.44e-04	-3.71e-06	0.0
357	61	1.54e-03	7.62e-03	-0.15	-1.89e-04	-3.80e-06	0.0
357	63	-6.95e-04	7.92e-03	-0.15	-1.89e-04	-4.44e-06	0.0
357	69	-6.15e-05	3.10e-03	-0.14	-1.54e-04	-2.52e-06	0.0
357	70	-4.56e-05	3.68e-03	-0.15	-1.83e-04	-1.52e-06	0.0
357	71	-6.15e-05	3.10e-03	-0.14	-1.54e-04	-2.52e-06	0.0
357	72	-5.83e-05	3.21e-03	-0.14	-1.60e-04	-2.32e-06	0.0
358	1	-9.23e-05	4.11e-03	-0.18	-2.03e-04	-3.79e-06	0.0
358	2	-5.38e-05	4.99e-03	-0.19	-2.47e-04	-1.48e-06	0.0
358	20	-2.93e-03	1.86e-03	-0.14	-1.50e-04	-5.58e-06	0.0
358	31	-4.72e-04	6.30e-03	-0.14	-1.78e-04	-4.26e-06	0.0
358	35	-5.88e-04	6.07e-03	-0.14	-1.79e-04	-4.49e-06	0.0
358	52	-4.61e-03	1.11e-03	-0.14	-1.46e-04	-7.20e-06	0.0
358	63	-7.10e-04	8.15e-03	-0.15	-1.91e-04	-5.11e-06	0.0
358	67	-8.96e-04	7.79e-03	-0.15	-1.92e-04	-5.46e-06	0.0
358	69	-6.85e-05	3.15e-03	-0.14	-1.56e-04	-2.78e-06	0.0
358	70	-4.28e-05	3.74e-03	-0.15	-1.85e-04	-1.25e-06	0.0
358	71	-6.85e-05	3.15e-03	-0.14	-1.56e-04	-2.78e-06	0.0
358	72	-6.34e-05	3.27e-03	-0.14	-1.62e-04	-2.48e-06	0.0
359	2	5.21e-05	5.06e-03	-0.19	-2.50e-04	3.76e-06	0.0
359	4	6.36e-05	4.08e-03	-0.15	-2.01e-04	4.17e-06	0.0
359	20	-2.92e-03	1.82e-03	-0.14	-1.52e-04	-5.03e-06	0.0
359	31	-4.28e-04	6.46e-03	-0.14	-1.80e-04	-2.14e-06	0.0
359	35	-5.47e-04	6.19e-03	-0.14	-1.81e-04	-2.49e-06	0.0
359	52	-4.63e-03	1.01e-03	-0.14	-1.49e-04	-7.97e-06	0.0
359	63	-6.74e-04	8.38e-03	-0.15	-1.94e-04	-3.38e-06	0.0
359	67	-8.64e-04	7.95e-03	-0.15	-1.94e-04	-3.92e-06	0.0
359	70	3.57e-05	3.79e-03	-0.15	-1.87e-04	2.64e-06	0.0
359	71	-1.23e-05	3.19e-03	-0.14	-1.58e-04	0.0	0.0
359	72	-2.72e-06	3.31e-03	-0.14	-1.64e-04	0.0	0.0
360	2	1.64e-04	5.06e-03	-0.19	-2.50e-04	9.24e-06	0.0
360	17	2.98e-03	4.63e-03	-0.14	-1.63e-04	9.40e-06	0.0
360	31	-3.78e-04	6.54e-03	-0.14	-1.81e-04	0.0	0.0
360	35	-4.98e-04	6.24e-03	-0.14	-1.81e-04	0.0	0.0
360	49	4.71e-03	5.48e-03	-0.14	-1.65e-04	1.31e-05	0.0
360	63	-6.30e-04	8.51e-03	-0.15	-1.94e-04	-1.31e-06	0.0
360	67	-8.22e-04	8.04e-03	-0.15	-1.95e-04	-1.96e-06	0.0
360	70	1.19e-04	3.79e-03	-0.15	-1.87e-04	6.72e-06	0.0
360	72	6.43e-05	3.32e-03	-0.14	-1.64e-04	3.79e-06	0.0
361	2	2.11e-04	5.04e-03	-0.19	-2.49e-04	1.16e-05	0.0
361	17	3.02e-03	4.65e-03	-0.14	-1.62e-04	1.12e-05	0.0
361	31	-3.56e-04	6.57e-03	-0.14	-1.81e-04	1.32e-06	0.0
361	35	-4.77e-04	6.25e-03	-0.14	-1.81e-04	0.0	0.0
361	49	4.75e-03	5.51e-03	-0.14	-1.65e-04	1.52e-05	0.0
361	63	-6.12e-04	8.56e-03	-0.15	-1.94e-04	0.0	0.0
361	67	-8.04e-04	8.06e-03	-0.15	-1.95e-04	-1.11e-06	0.0
361	70	1.54e-04	3.78e-03	-0.15	-1.86e-04	8.45e-06	0.0
361	72	9.23e-05	3.30e-03	-0.14	-1.63e-04	5.17e-06	0.0
362	2	3.53e-04	4.92e-03	-0.19	-2.43e-04	1.86e-05	0.0
362	14	3.12e-03	3.11e-03	-0.14	-1.46e-04	1.73e-05	0.0
362	31	-2.92e-04	6.62e-03	-0.14	-1.78e-04	4.52e-06	0.0
362	35	-4.13e-04	6.26e-03	-0.14	-1.79e-04	4.06e-06	0.0
362	46	4.88e-03	3.10e-03	-0.14	-1.41e-04	2.26e-05	0.0
362	63	-5.53e-04	8.68e-03	-0.15	-1.92e-04	2.43e-06	0.0
362	67	-7.47e-04	8.12e-03	-0.15	-1.93e-04	1.70e-06	0.0
362	70	2.59e-04	3.68e-03	-0.15	-1.82e-04	1.37e-05	0.0
362	72	1.74e-04	3.23e-03	-0.14	-1.60e-04	9.24e-06	0.0
363	2	3.87e-04	4.75e-03	-0.19	-2.36e-04	2.05e-05	0.0
363	14	3.16e-03	3.10e-03	-0.14	-1.41e-04	1.92e-05	0.0
363	31	-2.91e-04	6.64e-03	-0.14	-1.74e-04	4.68e-06	0.0
363	35	-4.13e-04	6.24e-03	-0.14	-1.75e-04	4.18e-06	0.0
363	46	4.93e-03	3.14e-03	-0.14	-1.36e-04	2.55e-05	0.0
363	63	-5.56e-04	8.78e-03	-0.15	-1.89e-04	2.45e-06	0.0
363	67	-7.51e-04	8.15e-03	-0.15	-1.90e-04	1.66e-06	0.0
363	70	2.83e-04	3.56e-03	-0.15	-1.77e-04	1.50e-05	0.0
363	72	1.84e-04	3.13e-03	-0.14	-1.55e-04	9.84e-06	0.0

364	2	3.14e-04	4.63e-03	-0.19	-2.30e-04	1.70e-05	0.0
364	17	3.14e-03	4.69e-03	-0.14	-1.49e-04	1.77e-05	0.0
364	31	-3.53e-04	6.69e-03	-0.14	-1.72e-04	1.70e-06	0.0
364	35	-4.77e-04	6.25e-03	-0.14	-1.72e-04	1.11e-06	0.0
364	49	4.94e-03	5.70e-03	-0.14	-1.50e-04	2.49e-05	0.0
364	63	-6.19e-04	8.90e-03	-0.15	-1.86e-04	0.0	0.0
364	67	-8.18e-04	8.20e-03	-0.15	-1.87e-04	-1.49e-06	0.0
364	70	2.27e-04	3.47e-03	-0.15	-1.73e-04	1.24e-05	0.0
364	72	1.24e-04	3.06e-03	-0.14	-1.52e-04	6.96e-06	0.0
365	2	1.96e-04	4.60e-03	-0.19	-2.28e-04	1.13e-05	0.0
365	4	2.09e-04	3.69e-03	-0.15	-1.84e-04	1.17e-05	0.0
365	17	3.11e-03	4.77e-03	-0.14	-1.48e-04	1.62e-05	0.0
365	31	-4.43e-04	6.80e-03	-0.14	-1.71e-04	-2.67e-06	0.0
365	35	-5.70e-04	6.32e-03	-0.14	-1.72e-04	-3.42e-06	0.0
365	49	4.94e-03	5.84e-03	-0.14	-1.48e-04	2.49e-05	0.0
365	63	-7.11e-04	9.08e-03	-0.15	-1.86e-04	-4.97e-06	0.0
365	67	-9.14e-04	8.32e-03	-0.15	-1.88e-04	-6.16e-06	0.0
365	70	1.37e-04	3.45e-03	-0.15	-1.71e-04	8.00e-06	0.0
365	72	3.62e-05	3.04e-03	-0.14	-1.51e-04	2.68e-06	0.0
366	2	1.11e-04	4.66e-03	-0.19	-2.31e-04	7.24e-06	0.0
366	4	1.44e-04	3.74e-03	-0.15	-1.86e-04	8.65e-06	0.0
366	19	-3.01e-03	3.30e-03	-0.14	-1.63e-04	-1.95e-05	0.0
366	20	-3.21e-03	1.08e-03	-0.14	-1.49e-04	-1.93e-05	0.0
366	31	-5.10e-04	6.98e-03	-0.14	-1.74e-04	-6.30e-06	0.0
366	51	-4.76e-03	3.49e-03	-0.15	-1.72e-04	-2.99e-05	0.0
366	52	-5.07e-03	-3.46e-05	-0.14	-1.49e-04	-2.97e-05	0.0
366	63	-7.80e-04	9.32e-03	-0.15	-1.89e-04	-9.00e-06	0.0
366	70	7.34e-05	3.50e-03	-0.14	-1.74e-04	4.91e-06	0.0
366	71	-5.09e-05	2.99e-03	-0.14	-1.49e-04	-1.66e-06	0.0
366	72	-2.61e-05	3.09e-03	-0.14	-1.54e-04	0.0	0.0
367	2	1.29e-04	4.81e-03	-0.19	-2.38e-04	8.15e-06	0.0
367	4	1.60e-04	3.86e-03	-0.15	-1.91e-04	9.45e-06	0.0
367	19	-3.05e-03	3.39e-03	-0.15	-1.71e-04	-2.11e-05	0.0
367	20	-3.25e-03	1.11e-03	-0.14	-1.56e-04	-2.15e-05	0.0
367	31	-5.06e-04	7.20e-03	-0.14	-1.80e-04	-5.58e-06	0.0
367	51	-4.82e-03	3.57e-03	-0.15	-1.81e-04	-3.28e-05	0.0
367	52	-5.14e-03	-4.69e-05	-0.15	-1.58e-04	-3.34e-05	0.0
367	63	-7.78e-04	9.62e-03	-0.15	-1.95e-04	-8.10e-06	0.0
367	70	8.62e-05	3.61e-03	-0.14	-1.79e-04	5.56e-06	0.0
367	71	-4.35e-05	3.10e-03	-0.14	-1.54e-04	-1.29e-06	0.0
367	72	-1.76e-05	3.20e-03	-0.14	-1.59e-04	0.0	0.0
368	2	1.99e-04	4.91e-03	-0.19	-2.44e-04	1.16e-05	0.0
368	4	2.16e-04	3.95e-03	-0.15	-1.96e-04	1.22e-05	0.0
368	17	3.22e-03	5.19e-03	-0.14	-1.53e-04	2.20e-05	0.0
368	19	-3.02e-03	3.46e-03	-0.15	-1.77e-04	-1.97e-05	0.0
368	31	-4.61e-04	7.35e-03	-0.14	-1.84e-04	-3.35e-06	0.0
368	49	5.12e-03	6.37e-03	-0.13	-1.50e-04	3.44e-05	0.0
368	51	-4.80e-03	3.65e-03	-0.15	-1.88e-04	-3.18e-05	0.0
368	63	-7.33e-04	9.81e-03	-0.15	-1.99e-04	-5.85e-06	0.0
368	70	1.39e-04	3.69e-03	-0.14	-1.83e-04	8.16e-06	0.0
368	72	2.83e-05	3.28e-03	-0.14	-1.63e-04	2.35e-06	0.0
369	1	2.50e-04	5.07e-03	-0.19	-2.52e-04	1.02e-05	0.0
369	2	8.08e-05	6.04e-03	-0.20	-3.00e-04	0.0	0.0
369	13	3.32e-03	4.21e-03	-0.16	-2.15e-04	3.18e-05	0.0
369	17	3.57e-03	3.51e-03	-0.16	-2.11e-04	3.14e-05	0.0
369	21	5.79e-04	8.19e-03	-0.15	-2.26e-04	1.35e-05	0.0
369	45	5.17e-03	4.40e-03	-0.16	-2.28e-04	4.60e-05	0.0
369	49	5.56e-03	3.29e-03	-0.16	-2.22e-04	4.54e-05	0.0
369	53	8.10e-04	0.01	-0.16	-2.45e-04	1.69e-05	0.0
369	69	1.86e-04	3.89e-03	-0.15	-1.93e-04	7.55e-06	0.0
369	70	7.34e-05	4.54e-03	-0.15	-2.25e-04	1.31e-06	0.0
369	71	1.86e-04	3.89e-03	-0.15	-1.93e-04	7.55e-06	0.0
369	72	1.64e-04	4.02e-03	-0.15	-2.00e-04	6.30e-06	0.0
370	1	2.68e-04	4.87e-03	-0.19	-2.41e-04	1.15e-05	0.0
370	2	1.00e-04	5.81e-03	-0.20	-2.88e-04	2.37e-06	0.0
370	17	3.53e-03	3.39e-03	-0.15	-2.00e-04	3.00e-05	0.0
370	21	5.81e-04	7.89e-03	-0.15	-2.17e-04	1.39e-05	0.0
370	25	7.55e-04	7.33e-03	-0.15	-2.18e-04	1.53e-05	0.0
370	49	5.50e-03	3.20e-03	-0.16	-2.08e-04	4.27e-05	0.0
370	53	8.06e-04	0.01	-0.16	-2.35e-04	1.71e-05	0.0
370	57	1.08e-03	9.46e-03	-0.16	-2.37e-04	1.93e-05	0.0
370	69	1.99e-04	3.74e-03	-0.15	-1.85e-04	8.52e-06	0.0
370	70	8.79e-05	4.37e-03	-0.15	-2.17e-04	2.43e-06	0.0
370	71	1.99e-04	3.74e-03	-0.15	-1.85e-04	8.52e-06	0.0
370	72	1.77e-04	3.86e-03	-0.15	-1.92e-04	7.30e-06	0.0
371	1	1.59e-04	4.71e-03	-0.19	-2.34e-04	6.25e-06	0.0

371	2	-2.21e-05	5.65e-03	-0.20	-2.80e-04	-3.54e-06	0.0
371	17	3.38e-03	3.34e-03	-0.15	-1.92e-04	2.23e-05	0.0
371	21	4.83e-04	7.65e-03	-0.15	-2.10e-04	9.24e-06	0.0
371	25	6.51e-04	7.13e-03	-0.15	-2.11e-04	1.03e-05	0.0
371	49	5.30e-03	3.18e-03	-0.15	-1.99e-04	3.28e-05	0.0
371	53	6.99e-04	0.01	-0.16	-2.28e-04	1.20e-05	0.0
371	57	9.68e-04	9.21e-03	-0.16	-2.30e-04	1.37e-05	0.0
371	69	1.16e-04	3.62e-03	-0.15	-1.80e-04	4.49e-06	0.0
371	70	-4.59e-06	4.24e-03	-0.15	-2.11e-04	-2.04e-06	0.0
371	71	1.16e-04	3.62e-03	-0.15	-1.80e-04	4.49e-06	0.0
371	72	9.22e-05	3.74e-03	-0.15	-1.86e-04	3.18e-06	0.0
372	2	-2.43e-04	5.61e-03	-0.20	-2.79e-04	-1.44e-05	0.0
372	4	-2.47e-04	4.51e-03	-0.16	-2.24e-04	-1.43e-05	0.0
372	20	-3.22e-03	3.78e-03	-0.14	-1.67e-04	-1.73e-05	0.0
372	21	3.27e-04	7.48e-03	-0.15	-2.08e-04	1.58e-06	0.0
372	25	4.90e-04	7.01e-03	-0.15	-2.09e-04	2.38e-06	0.0
372	52	-5.10e-03	3.89e-03	-0.14	-1.60e-04	-2.57e-05	0.0
372	53	5.40e-04	9.78e-03	-0.16	-2.25e-04	4.17e-06	0.0
372	57	8.00e-04	9.04e-03	-0.16	-2.27e-04	5.45e-06	0.0
372	70	-1.72e-04	4.21e-03	-0.16	-2.09e-04	-1.02e-05	0.0
372	72	-6.23e-05	3.70e-03	-0.15	-1.84e-04	-4.42e-06	0.0
373	2	-4.56e-04	5.72e-03	-0.20	-2.84e-04	-2.49e-05	0.0
373	20	-3.32e-03	3.75e-03	-0.15	-1.70e-04	-2.29e-05	0.0
373	21	1.75e-04	7.42e-03	-0.15	-2.10e-04	-5.94e-06	0.0
373	25	3.34e-04	6.99e-03	-0.15	-2.11e-04	-5.30e-06	0.0
373	52	-5.17e-03	3.81e-03	-0.14	-1.63e-04	-3.03e-05	0.0
373	53	3.87e-04	9.65e-03	-0.16	-2.27e-04	-3.40e-06	0.0
373	57	6.41e-04	8.97e-03	-0.16	-2.28e-04	-2.38e-06	0.0
373	70	-3.33e-04	4.29e-03	-0.16	-2.13e-04	-1.82e-05	0.0
373	72	-2.15e-04	3.76e-03	-0.15	-1.87e-04	-1.20e-05	0.0
374	2	-5.46e-04	5.95e-03	-0.21	-2.94e-04	-2.93e-05	0.0
374	20	-3.36e-03	3.79e-03	-0.15	-1.76e-04	-2.50e-05	0.0
374	21	1.03e-04	7.44e-03	-0.15	-2.16e-04	-9.54e-06	0.0
374	25	2.60e-04	7.05e-03	-0.15	-2.16e-04	-8.95e-06	0.0
374	52	-5.19e-03	3.81e-03	-0.14	-1.70e-04	-3.13e-05	0.0
374	53	3.16e-04	9.60e-03	-0.16	-2.33e-04	-6.96e-06	0.0
374	57	5.69e-04	8.99e-03	-0.16	-2.34e-04	-6.02e-06	0.0
374	70	-4.02e-04	4.46e-03	-0.16	-2.21e-04	-2.16e-05	0.0
374	72	-2.88e-04	3.90e-03	-0.15	-1.93e-04	-1.56e-05	0.0
375	2	-4.23e-04	6.21e-03	-0.21	-3.06e-04	-2.32e-05	0.0
375	20	-3.28e-03	3.87e-03	-0.15	-1.84e-04	-2.10e-05	0.0
375	21	1.56e-04	7.47e-03	-0.15	-2.22e-04	-6.90e-06	0.0
375	25	3.14e-04	7.13e-03	-0.15	-2.23e-04	-6.30e-06	0.0
375	52	-5.10e-03	3.84e-03	-0.15	-1.79e-04	-2.68e-05	0.0
375	53	3.65e-04	9.56e-03	-0.16	-2.39e-04	-4.52e-06	0.0
375	57	6.18e-04	9.02e-03	-0.16	-2.39e-04	-3.56e-06	0.0
375	70	-3.11e-04	4.66e-03	-0.16	-2.30e-04	-1.71e-05	0.0
375	72	-2.21e-04	4.07e-03	-0.15	-2.01e-04	-1.23e-05	0.0
376	2	-2.11e-04	6.33e-03	-0.21	-3.12e-04	-1.17e-05	0.0
376	20	-3.13e-03	3.88e-03	-0.15	-1.89e-04	-1.18e-05	0.0
376	21	2.61e-04	7.43e-03	-0.15	-2.25e-04	-1.02e-06	0.0
376	25	4.18e-04	7.13e-03	-0.15	-2.25e-04	0.0	0.0
376	52	-4.93e-03	3.80e-03	-0.15	-1.84e-04	-1.62e-05	0.0
376	53	4.60e-04	9.46e-03	-0.16	-2.41e-04	0.0	0.0
376	57	7.11e-04	8.98e-03	-0.16	-2.42e-04	1.79e-06	0.0
376	70	-1.54e-04	4.74e-03	-0.16	-2.34e-04	-8.50e-06	0.0
376	72	-9.13e-05	4.14e-03	-0.15	-2.04e-04	-5.17e-06	0.0
377	2	1.29e-04	6.51e-03	-0.23	-3.24e-04	8.03e-06	0.0
377	4	1.63e-04	5.24e-03	-0.18	-2.60e-04	9.56e-06	0.0
377	15	-3.50e-03	3.94e-03	-0.17	-2.19e-04	-2.15e-05	0.0
377	31	-2.48e-04	8.26e-03	-0.18	-2.44e-04	-1.05e-05	0.0
377	35	-4.80e-04	7.77e-03	-0.18	-2.44e-04	-1.15e-05	0.0
377	47	-5.52e-03	3.83e-03	-0.18	-2.27e-04	-3.24e-05	0.0
377	63	-3.51e-04	0.01	-0.18	-2.65e-04	-1.48e-05	0.0
377	67	-7.23e-04	9.90e-03	-0.18	-2.66e-04	-1.65e-05	0.0
377	70	8.04e-05	4.89e-03	-0.18	-2.43e-04	5.19e-06	0.0
377	71	-7.27e-05	4.15e-03	-0.17	-2.07e-04	-2.89e-06	0.0
377	72	-4.21e-05	4.30e-03	-0.17	-2.14e-04	-1.27e-06	0.0
378	1	1.03e-04	5.15e-03	-0.19	-2.54e-04	5.25e-06	0.0
378	2	4.69e-05	6.27e-03	-0.21	-3.09e-04	2.35e-06	0.0
378	14	3.08e-03	2.57e-03	-0.15	-1.88e-04	8.86e-06	0.0
378	21	3.89e-04	7.27e-03	-0.15	-2.22e-04	6.16e-06	0.0
378	25	5.43e-04	7.01e-03	-0.15	-2.23e-04	6.56e-06	0.0
378	46	4.85e-03	1.77e-03	-0.15	-1.84e-04	1.18e-05	0.0
378	53	5.73e-04	9.22e-03	-0.16	-2.38e-04	7.46e-06	0.0
378	57	8.20e-04	8.81e-03	-0.16	-2.39e-04	8.10e-06	0.0

378	69	7.64e-05	3.95e-03	-0.15	-1.95e-04	3.90e-06	0.0
378	70	3.91e-05	4.70e-03	-0.16	-2.32e-04	1.96e-06	0.0
378	71	7.64e-05	3.95e-03	-0.15	-1.95e-04	3.90e-06	0.0
378	72	6.90e-05	4.10e-03	-0.15	-2.03e-04	3.51e-06	0.0
379	1	1.63e-04	5.01e-03	-0.19	-2.48e-04	8.20e-06	0.0
379	2	1.40e-04	6.10e-03	-0.21	-3.02e-04	6.97e-06	0.0
379	14	3.06e-03	2.56e-03	-0.15	-1.83e-04	8.13e-06	0.0
379	21	4.24e-04	7.04e-03	-0.15	-2.17e-04	7.94e-06	0.0
379	27	-1.12e-03	7.04e-03	-0.15	-2.17e-04	6.75e-06	0.0
379	46	4.79e-03	1.81e-03	-0.15	-1.78e-04	9.23e-06	0.0
379	53	6.01e-04	8.93e-03	-0.16	-2.33e-04	8.95e-06	0.0
379	59	-1.85e-03	8.93e-03	-0.16	-2.33e-04	7.08e-06	0.0
379	69	1.23e-04	3.84e-03	-0.15	-1.90e-04	6.19e-06	0.0
379	70	1.08e-04	4.57e-03	-0.16	-2.26e-04	5.37e-06	0.0
379	71	1.23e-04	3.84e-03	-0.15	-1.90e-04	6.19e-06	0.0
379	72	1.20e-04	3.99e-03	-0.15	-1.98e-04	6.02e-06	0.0
380	1	7.76e-05	4.92e-03	-0.19	-2.44e-04	4.06e-06	0.0
380	2	5.52e-05	5.99e-03	-0.21	-2.97e-04	2.91e-06	0.0
380	14	2.95e-03	2.60e-03	-0.15	-1.80e-04	1.95e-06	0.0
380	21	3.62e-04	6.85e-03	-0.15	-2.14e-04	4.79e-06	0.0
380	27	-1.16e-03	6.85e-03	-0.15	-2.13e-04	5.05e-06	0.0
380	46	4.65e-03	1.91e-03	-0.15	-1.76e-04	1.52e-06	0.0
380	53	5.41e-04	8.67e-03	-0.16	-2.29e-04	5.86e-06	0.0
380	55	-1.64e-03	8.40e-03	-0.16	-2.29e-04	6.11e-06	0.0
380	69	5.80e-05	3.77e-03	-0.15	-1.87e-04	3.03e-06	0.0
380	70	4.31e-05	4.49e-03	-0.16	-2.23e-04	2.27e-06	0.0
380	71	5.80e-05	3.77e-03	-0.15	-1.87e-04	3.03e-06	0.0
380	72	5.50e-05	3.91e-03	-0.15	-1.94e-04	2.88e-06	0.0
381	2	-9.78e-05	5.99e-03	-0.21	-2.97e-04	-4.57e-06	0.0
381	20	-2.92e-03	3.25e-03	-0.15	-1.79e-04	0.0	0.0
381	21	2.62e-04	6.74e-03	-0.15	-2.13e-04	0.0	0.0
381	27	-1.25e-03	6.73e-03	-0.15	-2.13e-04	0.0	0.0
381	52	-4.62e-03	2.95e-03	-0.15	-1.75e-04	0.0	0.0
381	53	4.45e-04	8.49e-03	-0.16	-2.29e-04	1.24e-06	0.0
381	59	-1.95e-03	8.48e-03	-0.16	-2.28e-04	2.02e-06	0.0
381	70	-7.27e-05	4.49e-03	-0.16	-2.23e-04	-3.39e-06	0.0
381	72	-5.33e-05	3.91e-03	-0.15	-1.94e-04	-2.44e-06	0.0
382	2	-1.96e-04	6.11e-03	-0.21	-3.02e-04	-9.32e-06	0.0
382	20	-3.00e-03	3.22e-03	-0.15	-1.82e-04	-4.55e-06	0.0
382	21	2.02e-04	6.69e-03	-0.15	-2.16e-04	-2.96e-06	0.0
382	25	3.49e-04	6.62e-03	-0.15	-2.16e-04	-2.90e-06	0.0
382	52	-4.71e-03	2.85e-03	-0.15	-1.77e-04	-4.09e-06	0.0
382	53	3.90e-04	8.38e-03	-0.16	-2.31e-04	-1.41e-06	0.0
382	57	6.25e-04	8.25e-03	-0.16	-2.31e-04	-1.28e-06	0.0
382	70	-1.47e-04	4.57e-03	-0.16	-2.26e-04	-6.98e-06	0.0
382	72	-1.24e-04	3.99e-03	-0.15	-1.97e-04	-5.87e-06	0.0
383	2	-1.44e-04	6.26e-03	-0.21	-3.09e-04	-6.74e-06	0.0
383	20	-3.00e-03	3.13e-03	-0.15	-1.86e-04	-4.38e-06	0.0
383	21	2.29e-04	6.67e-03	-0.15	-2.19e-04	-1.53e-06	0.0
383	25	3.78e-04	6.66e-03	-0.15	-2.19e-04	-1.35e-06	0.0
383	52	-4.71e-03	2.65e-03	-0.15	-1.82e-04	-4.45e-06	0.0
383	53	4.16e-04	8.28e-03	-0.16	-2.33e-04	0.0	0.0
383	57	6.55e-04	8.27e-03	-0.16	-2.33e-04	0.0	0.0
383	70	-1.08e-04	4.69e-03	-0.16	-2.31e-04	-5.07e-06	0.0
383	72	-9.30e-05	4.09e-03	-0.15	-2.02e-04	-4.36e-06	0.0
384	2	-2.99e-05	6.30e-03	-0.21	-3.11e-04	0.0	0.0
384	20	-2.93e-03	3.17e-03	-0.15	-1.89e-04	-1.02e-06	0.0
384	25	4.46e-04	6.60e-03	-0.15	-2.20e-04	2.01e-06	0.0
384	27	-1.23e-03	6.60e-03	-0.15	-2.20e-04	1.31e-06	0.0
384	52	-4.64e-03	2.71e-03	-0.15	-1.85e-04	-1.25e-06	0.0
384	57	7.21e-04	8.15e-03	-0.16	-2.34e-04	3.51e-06	0.0
384	59	-1.95e-03	8.15e-03	-0.16	-2.34e-04	2.43e-06	0.0
384	70	-2.23e-05	4.72e-03	-0.16	-2.33e-04	0.0	0.0
384	72	-1.85e-05	4.12e-03	-0.15	-2.03e-04	0.0	0.0
385	2	-6.62e-06	6.30e-03	-0.21	-3.11e-04	0.0	0.0
385	20	-2.91e-03	3.16e-03	-0.15	-1.89e-04	0.0	0.0
385	31	-3.13e-04	6.61e-03	-0.15	-2.20e-04	-2.31e-06	0.0
385	35	-4.63e-04	6.60e-03	-0.15	-2.20e-04	-2.54e-06	0.0
385	52	-4.63e-03	2.69e-03	-0.15	-1.85e-04	0.0	0.0
385	63	-4.96e-04	8.17e-03	-0.16	-2.34e-04	-3.82e-06	0.0
385	67	-7.36e-04	8.16e-03	-0.16	-2.34e-04	-4.18e-06	0.0
385	70	-4.70e-06	4.72e-03	-0.16	-2.33e-04	0.0	0.0
385	72	-2.98e-06	4.11e-03	-0.15	-2.03e-04	0.0	0.0
386	2	1.59e-04	6.17e-03	-0.21	-3.06e-04	8.68e-06	0.0
386	14	2.99e-03	3.20e-03	-0.15	-1.84e-04	4.33e-06	0.0
386	31	-2.20e-04	6.65e-03	-0.15	-2.18e-04	2.57e-06	0.0

386	35	-3.68e-04	6.60e-03	-0.15	-2.18e-04	2.60e-06	0.0
386	46	4.70e-03	2.80e-03	-0.15	-1.79e-04	3.88e-06	0.0
386	63	-4.07e-04	8.28e-03	-0.16	-2.32e-04	0.0	0.0
386	67	-6.44e-04	8.20e-03	-0.16	-2.33e-04	0.0	0.0
386	70	1.19e-04	4.62e-03	-0.16	-2.29e-04	6.52e-06	0.0
386	72	1.03e-04	4.03e-03	-0.15	-2.00e-04	5.58e-06	0.0
387	2	1.54e-04	6.02e-03	-0.21	-2.99e-04	8.38e-06	0.0
387	17	2.96e-03	4.78e-03	-0.15	-1.95e-04	3.18e-06	0.0
387	29	1.15e-03	6.57e-03	-0.15	-2.13e-04	2.08e-06	0.0
387	31	-2.16e-04	6.67e-03	-0.15	-2.14e-04	2.66e-06	0.0
387	49	4.65e-03	5.37e-03	-0.15	-1.98e-04	2.29e-06	0.0
387	63	-3.96e-04	8.37e-03	-0.16	-2.29e-04	1.37e-06	0.0
387	67	-6.29e-04	8.22e-03	-0.16	-2.29e-04	1.33e-06	0.0
387	70	1.15e-04	4.51e-03	-0.16	-2.24e-04	6.27e-06	0.0
387	72	9.46e-05	3.93e-03	-0.15	-1.95e-04	5.13e-06	0.0
388	2	1.79e-05	5.95e-03	-0.21	-2.95e-04	1.64e-06	0.0
388	4	2.28e-05	4.80e-03	-0.16	-2.38e-04	1.78e-06	0.0
388	20	-2.88e-03	2.64e-03	-0.15	-1.79e-04	1.68e-06	0.0
388	29	1.06e-03	6.60e-03	-0.15	-2.12e-04	-2.17e-06	0.0
388	31	-3.03e-04	6.74e-03	-0.15	-2.12e-04	-1.70e-06	0.0
388	52	-4.57e-03	2.00e-03	-0.15	-1.75e-04	2.45e-06	0.0
388	61	1.69e-03	8.28e-03	-0.16	-2.27e-04	-3.52e-06	0.0
388	63	-4.78e-04	8.51e-03	-0.16	-2.27e-04	-2.79e-06	0.0
388	70	1.24e-05	4.46e-03	-0.16	-2.21e-04	1.18e-06	0.0
388	71	-4.82e-06	3.74e-03	-0.15	-1.86e-04	0.0	0.0
388	72	-1.37e-06	3.89e-03	-0.15	-1.93e-04	0.0	0.0
389	1	-1.42e-04	4.92e-03	-0.19	-2.45e-04	-6.49e-06	0.0
389	2	-1.28e-04	6.00e-03	-0.21	-2.98e-04	-5.50e-06	0.0
389	20	-3.01e-03	2.56e-03	-0.15	-1.80e-04	-5.32e-06	0.0
389	29	9.76e-04	6.71e-03	-0.15	-2.14e-04	-6.34e-06	0.0
389	31	-4.02e-04	6.90e-03	-0.15	-2.14e-04	-6.63e-06	0.0
389	52	-4.72e-03	1.85e-03	-0.15	-1.76e-04	-5.42e-06	0.0
389	61	1.61e-03	8.44e-03	-0.16	-2.29e-04	-7.21e-06	0.0
389	63	-5.75e-04	8.74e-03	-0.16	-2.29e-04	-7.62e-06	0.0
389	69	-1.07e-04	3.78e-03	-0.15	-1.88e-04	-4.89e-06	0.0
389	70	-9.79e-05	4.49e-03	-0.16	-2.23e-04	-4.23e-06	0.0
389	71	-1.07e-04	3.78e-03	-0.15	-1.88e-04	-4.89e-06	0.0
389	72	-1.05e-04	3.92e-03	-0.15	-1.95e-04	-4.76e-06	0.0
390	1	-1.81e-04	5.05e-03	-0.19	-2.50e-04	-8.36e-06	0.0
390	2	-1.57e-04	6.15e-03	-0.21	-3.04e-04	-6.78e-06	0.0
390	20	-3.10e-03	2.55e-03	-0.15	-1.83e-04	-9.38e-06	0.0
390	31	-4.32e-04	7.12e-03	-0.15	-2.19e-04	-8.11e-06	0.0
390	35	-5.83e-04	6.89e-03	-0.15	-2.19e-04	-8.39e-06	0.0
390	52	-4.84e-03	1.78e-03	-0.15	-1.78e-04	-1.11e-05	0.0
390	63	-6.06e-04	9.03e-03	-0.16	-2.34e-04	-9.15e-06	0.0
390	67	-8.47e-04	8.66e-03	-0.16	-2.34e-04	-9.58e-06	0.0
390	69	-1.37e-04	3.87e-03	-0.15	-1.92e-04	-6.30e-06	0.0
390	70	-1.21e-04	4.60e-03	-0.16	-2.28e-04	-5.25e-06	0.0
390	71	-1.37e-04	3.87e-03	-0.15	-1.92e-04	-6.30e-06	0.0
390	72	-1.34e-04	4.02e-03	-0.15	-1.99e-04	-6.09e-06	0.0
391	1	-5.45e-05	5.19e-03	-0.20	-2.56e-04	-2.05e-06	0.0
391	2	1.71e-05	6.31e-03	-0.21	-3.11e-04	1.90e-06	0.0
391	20	-3.06e-03	2.57e-03	-0.15	-1.89e-04	-7.41e-06	0.0
391	31	-3.54e-04	7.34e-03	-0.15	-2.23e-04	-4.07e-06	0.0
391	35	-5.09e-04	7.06e-03	-0.15	-2.23e-04	-4.54e-06	0.0
391	52	-4.84e-03	1.74e-03	-0.15	-1.85e-04	-1.09e-05	0.0
391	63	-5.40e-04	9.31e-03	-0.16	-2.39e-04	-5.59e-06	0.0
391	67	-7.87e-04	8.88e-03	-0.16	-2.39e-04	-6.34e-06	0.0
391	69	-3.91e-05	3.98e-03	-0.15	-1.96e-04	-1.43e-06	0.0
391	70	8.66e-06	4.73e-03	-0.16	-2.33e-04	1.21e-06	0.0
391	71	-3.91e-05	3.98e-03	-0.15	-1.96e-04	-1.43e-06	0.0
391	72	-2.95e-05	4.13e-03	-0.15	-2.03e-04	0.0	0.0
392	2	2.00e-04	6.32e-03	-0.21	-3.11e-04	1.11e-05	0.0
392	17	3.12e-03	5.46e-03	-0.15	-2.03e-04	1.17e-05	0.0
392	31	-2.58e-04	7.43e-03	-0.15	-2.24e-04	0.0	0.0
392	35	-4.15e-04	7.13e-03	-0.15	-2.25e-04	0.0	0.0
392	49	4.92e-03	6.32e-03	-0.15	-2.06e-04	1.62e-05	0.0
392	63	-4.51e-04	9.46e-03	-0.16	-2.40e-04	-1.29e-06	0.0
392	67	-7.01e-04	8.99e-03	-0.16	-2.41e-04	-2.19e-06	0.0
392	70	1.45e-04	4.74e-03	-0.16	-2.33e-04	8.11e-06	0.0
392	72	8.43e-05	4.14e-03	-0.15	-2.04e-04	4.86e-06	0.0
393	2	2.70e-04	6.30e-03	-0.21	-3.10e-04	1.50e-05	0.0
393	17	3.17e-03	5.47e-03	-0.15	-2.02e-04	1.44e-05	0.0
393	31	-2.21e-04	7.45e-03	-0.15	-2.24e-04	2.61e-06	0.0
393	35	-3.78e-04	7.13e-03	-0.15	-2.24e-04	2.03e-06	0.0
393	49	4.98e-03	6.34e-03	-0.15	-2.05e-04	1.91e-05	0.0

393	63	-4.17e-04	9.50e-03	-0.16	-2.40e-04	0.0	0.0
393	67	-6.68e-04	9.00e-03	-0.16	-2.40e-04	0.0	0.0
393	70	1.98e-04	4.72e-03	-0.16	-2.33e-04	1.10e-05	0.0
393	72	1.28e-04	4.13e-03	-0.15	-2.03e-04	7.23e-06	0.0
394	2	5.30e-04	6.08e-03	-0.21	-3.01e-04	2.80e-05	0.0
394	14	3.34e-03	3.82e-03	-0.15	-1.80e-04	2.40e-05	0.0
394	31	-9.14e-05	7.44e-03	-0.15	-2.19e-04	9.24e-06	0.0
394	35	-2.49e-04	7.08e-03	-0.15	-2.20e-04	8.64e-06	0.0
394	46	5.16e-03	3.79e-03	-0.15	-1.75e-04	3.00e-05	0.0
394	63	-2.98e-04	9.56e-03	-0.16	-2.36e-04	6.66e-06	0.0
394	67	-5.50e-04	8.99e-03	-0.16	-2.37e-04	5.72e-06	0.0
394	70	3.91e-04	4.55e-03	-0.16	-2.25e-04	2.06e-05	0.0
394	72	2.85e-04	3.99e-03	-0.15	-1.97e-04	1.51e-05	0.0
395	2	5.64e-04	5.81e-03	-0.21	-2.89e-04	2.97e-05	0.0
395	17	3.37e-03	5.35e-03	-0.15	-1.87e-04	2.44e-05	0.0
395	31	-8.34e-05	7.40e-03	-0.15	-2.12e-04	9.56e-06	0.0
395	35	-2.41e-04	7.00e-03	-0.15	-2.13e-04	8.96e-06	0.0
395	49	5.20e-03	6.33e-03	-0.15	-1.89e-04	3.05e-05	0.0
395	63	-2.87e-04	9.59e-03	-0.16	-2.29e-04	7.10e-06	0.0
395	67	-5.39e-04	8.96e-03	-0.16	-2.30e-04	6.15e-06	0.0
395	70	4.15e-04	4.36e-03	-0.16	-2.16e-04	2.18e-05	0.0
395	72	2.93e-04	3.82e-03	-0.15	-1.90e-04	1.55e-05	0.0
396	2	4.08e-04	5.63e-03	-0.20	-2.80e-04	2.20e-05	0.0
396	17	3.30e-03	5.34e-03	-0.15	-1.81e-04	2.08e-05	0.0
396	31	-2.00e-04	7.42e-03	-0.15	-2.08e-04	3.75e-06	0.0
396	35	-3.60e-04	6.97e-03	-0.15	-2.08e-04	3.06e-06	0.0
396	49	5.15e-03	6.37e-03	-0.15	-1.83e-04	2.83e-05	0.0
396	63	-4.04e-04	9.67e-03	-0.16	-2.25e-04	1.25e-06	0.0
396	67	-6.60e-04	8.97e-03	-0.16	-2.26e-04	0.0	0.0
396	70	2.96e-04	4.22e-03	-0.16	-2.10e-04	1.60e-05	0.0
396	72	1.76e-04	3.71e-03	-0.15	-1.85e-04	9.71e-06	0.0
397	2	1.73e-04	5.58e-03	-0.20	-2.77e-04	1.04e-05	0.0
397	4	1.93e-04	4.49e-03	-0.16	-2.23e-04	1.12e-05	0.0
397	20	-3.23e-03	1.71e-03	-0.15	-1.75e-04	-1.56e-05	0.0
397	31	-3.66e-04	7.53e-03	-0.15	-2.07e-04	-4.44e-06	0.0
397	35	-5.30e-04	7.04e-03	-0.15	-2.08e-04	-5.34e-06	0.0
397	52	-5.12e-03	6.30e-04	-0.15	-1.74e-04	-2.49e-05	0.0
397	63	-5.73e-04	9.86e-03	-0.16	-2.25e-04	-7.07e-06	0.0
397	67	-8.35e-04	9.09e-03	-0.16	-2.26e-04	-8.50e-06	0.0
397	70	1.19e-04	4.19e-03	-0.15	-2.08e-04	7.22e-06	0.0
397	71	-1.54e-05	3.57e-03	-0.15	-1.77e-04	0.0	0.0
397	72	1.14e-05	3.69e-03	-0.15	-1.84e-04	1.56e-06	0.0
398	1	-1.99e-04	4.75e-03	-0.19	-2.36e-04	-8.67e-06	0.0
398	2	-1.99e-05	5.68e-03	-0.20	-2.82e-04	0.0	0.0
398	20	-3.44e-03	1.70e-03	-0.15	-1.80e-04	-2.60e-05	0.0
398	31	-5.02e-04	7.73e-03	-0.15	-2.12e-04	-1.13e-05	0.0
398	35	-6.72e-04	7.20e-03	-0.15	-2.13e-04	-1.25e-05	0.0
398	52	-5.38e-03	5.64e-04	-0.15	-1.79e-04	-3.75e-05	0.0
398	63	-7.12e-04	0.01	-0.16	-2.30e-04	-1.41e-05	0.0
398	67	-9.84e-04	9.30e-03	-0.16	-2.31e-04	-1.60e-05	0.0
398	69	-1.47e-04	3.64e-03	-0.15	-1.81e-04	-6.34e-06	0.0
398	70	-2.73e-05	4.26e-03	-0.15	-2.12e-04	0.0	0.0
398	71	-1.47e-04	3.64e-03	-0.15	-1.81e-04	-6.34e-06	0.0
398	72	-1.23e-04	3.77e-03	-0.15	-1.87e-04	-5.07e-06	0.0
399	1	-2.48e-04	4.94e-03	-0.19	-2.45e-04	-1.11e-05	0.0
399	2	-7.47e-05	5.89e-03	-0.20	-2.92e-04	-1.76e-06	0.0
399	19	-3.29e-03	4.11e-03	-0.15	-2.07e-04	-3.12e-05	0.0
399	20	-3.54e-03	1.77e-03	-0.15	-1.89e-04	-3.10e-05	0.0
399	31	-5.55e-04	8.01e-03	-0.15	-2.19e-04	-1.39e-05	0.0
399	51	-5.12e-03	4.32e-03	-0.16	-2.19e-04	-4.47e-05	0.0
399	52	-5.52e-03	5.97e-04	-0.15	-1.90e-04	-4.45e-05	0.0
399	63	-7.73e-04	0.01	-0.16	-2.38e-04	-1.72e-05	0.0
399	69	-1.84e-04	3.79e-03	-0.15	-1.88e-04	-8.18e-06	0.0
399	70	-6.89e-05	4.42e-03	-0.15	-2.19e-04	-1.98e-06	0.0
399	71	-1.84e-04	3.79e-03	-0.15	-1.88e-04	-8.18e-06	0.0
399	72	-1.61e-04	3.92e-03	-0.15	-1.94e-04	-6.94e-06	0.0
400	1	-2.24e-04	5.06e-03	-0.19	-2.51e-04	-9.69e-06	0.0
400	2	-4.80e-05	6.03e-03	-0.20	-2.99e-04	0.0	0.0
400	19	-3.29e-03	4.21e-03	-0.16	-2.14e-04	-3.15e-05	0.0
400	20	-3.55e-03	1.83e-03	-0.15	-1.96e-04	-3.12e-05	0.0
400	31	-5.38e-04	8.20e-03	-0.15	-2.25e-04	-1.32e-05	0.0
400	51	-5.14e-03	4.42e-03	-0.16	-2.27e-04	-4.58e-05	0.0
400	52	-5.55e-03	6.27e-04	-0.16	-1.98e-04	-4.54e-05	0.0
400	63	-7.58e-04	0.01	-0.16	-2.44e-04	-1.68e-05	0.0
400	69	-1.66e-04	3.89e-03	-0.15	-1.93e-04	-7.13e-06	0.0
400	70	-4.88e-05	4.53e-03	-0.15	-2.25e-04	0.0	0.0

400	71	-1.66e-04	3.89e-03	-0.15	-1.93e-04	-7.13e-06	0.0
400	72	-1.43e-04	4.02e-03	-0.15	-1.99e-04	-5.86e-06	0.0
401	1	5.75e-04	5.69e-03	-0.21	-2.82e-04	2.48e-05	0.0
401	2	4.60e-04	6.78e-03	-0.22	-3.37e-04	1.77e-05	0.0
401	13	3.75e-03	4.70e-03	-0.17	-2.40e-04	4.89e-05	0.0
401	17	4.05e-03	3.99e-03	-0.17	-2.36e-04	4.87e-05	0.0
401	21	7.80e-04	8.77e-03	-0.17	-2.56e-04	2.72e-05	0.0
401	45	5.71e-03	4.91e-03	-0.17	-2.54e-04	6.67e-05	0.0
401	49	6.18e-03	3.77e-03	-0.17	-2.47e-04	6.62e-05	0.0
401	53	9.82e-04	0.01	-0.17	-2.79e-04	3.22e-05	0.0
401	69	4.37e-04	4.36e-03	-0.16	-2.17e-04	1.88e-05	0.0
401	70	3.60e-04	5.10e-03	-0.17	-2.53e-04	1.40e-05	0.0
401	71	4.37e-04	4.36e-03	-0.16	-2.17e-04	1.88e-05	0.0
401	72	4.22e-04	4.51e-03	-0.16	-2.24e-04	1.78e-05	0.0
402	1	4.31e-04	5.51e-03	-0.21	-2.72e-04	2.05e-05	0.0
402	2	2.75e-04	6.59e-03	-0.22	-3.26e-04	1.21e-05	0.0
402	14	3.83e-03	2.16e-03	-0.16	-2.06e-04	4.05e-05	0.0
402	21	5.98e-04	8.53e-03	-0.17	-2.47e-04	2.16e-05	0.0
402	25	8.14e-04	7.96e-03	-0.17	-2.48e-04	2.34e-05	0.0
402	46	5.90e-03	9.55e-04	-0.16	-2.05e-04	5.52e-05	0.0
402	53	7.58e-04	0.01	-0.17	-2.70e-04	2.52e-05	0.0
402	57	1.10e-03	0.01	-0.17	-2.71e-04	2.80e-05	0.0
402	69	3.25e-04	4.23e-03	-0.16	-2.09e-04	1.54e-05	0.0
402	70	2.22e-04	4.95e-03	-0.17	-2.45e-04	9.86e-06	0.0
402	71	3.25e-04	4.23e-03	-0.16	-2.09e-04	1.54e-05	0.0
402	72	3.05e-04	4.37e-03	-0.16	-2.16e-04	1.43e-05	0.0
403	1	2.70e-04	5.27e-03	-0.20	-2.62e-04	1.18e-05	0.0
403	2	9.02e-05	6.32e-03	-0.22	-3.14e-04	2.08e-06	0.0
403	17	3.58e-03	3.78e-03	-0.16	-2.14e-04	2.87e-05	0.0
403	21	4.79e-04	8.18e-03	-0.16	-2.36e-04	1.49e-05	0.0
403	25	6.83e-04	7.66e-03	-0.16	-2.37e-04	1.60e-05	0.0
403	49	5.57e-03	3.63e-03	-0.17	-2.22e-04	4.03e-05	0.0
403	53	6.42e-04	0.01	-0.17	-2.57e-04	1.83e-05	0.0
403	57	9.69e-04	9.79e-03	-0.17	-2.58e-04	2.02e-05	0.0
403	69	2.02e-04	4.04e-03	-0.16	-2.01e-04	8.82e-06	0.0
403	70	8.22e-05	4.74e-03	-0.17	-2.35e-04	2.30e-06	0.0
403	71	2.02e-04	4.04e-03	-0.16	-2.01e-04	8.82e-06	0.0
403	72	1.78e-04	4.18e-03	-0.16	-2.08e-04	7.51e-06	0.0
404	2	-2.77e-04	6.27e-03	-0.22	-3.11e-04	-1.64e-05	0.0
404	4	-2.78e-04	5.04e-03	-0.17	-2.51e-04	-1.60e-05	0.0
404	20	-3.34e-03	4.18e-03	-0.15	-1.86e-04	-1.96e-05	0.0
404	21	2.22e-04	7.99e-03	-0.16	-2.33e-04	1.89e-06	0.0
404	25	4.19e-04	7.51e-03	-0.16	-2.33e-04	2.78e-06	0.0
404	52	-5.28e-03	4.29e-03	-0.15	-1.79e-04	-2.90e-05	0.0
404	53	3.77e-04	0.01	-0.17	-2.53e-04	4.94e-06	0.0
404	57	6.93e-04	9.59e-03	-0.17	-2.54e-04	6.35e-06	0.0
404	70	-1.95e-04	4.70e-03	-0.17	-2.34e-04	-1.16e-05	0.0
404	72	-7.29e-05	4.14e-03	-0.16	-2.06e-04	-5.11e-06	0.0
405	2	-6.31e-04	6.40e-03	-0.22	-3.18e-04	-3.43e-05	0.0
405	20	-3.52e-03	4.17e-03	-0.15	-1.90e-04	-2.76e-05	0.0
405	21	-3.05e-05	7.94e-03	-0.16	-2.36e-04	-1.09e-05	0.0
405	25	1.63e-04	7.50e-03	-0.16	-2.36e-04	-1.02e-05	0.0
405	52	-5.43e-03	4.22e-03	-0.15	-1.83e-04	-3.46e-05	0.0
405	53	1.19e-04	0.01	-0.17	-2.55e-04	-8.25e-06	0.0
405	57	4.28e-04	9.54e-03	-0.17	-2.56e-04	-7.13e-06	0.0
405	70	-4.62e-04	4.80e-03	-0.17	-2.38e-04	-2.52e-05	0.0
405	72	-3.19e-04	4.21e-03	-0.16	-2.09e-04	-1.76e-05	0.0
406	2	-8.05e-04	6.72e-03	-0.22	-3.32e-04	-4.36e-05	0.0
406	20	-3.61e-03	4.26e-03	-0.16	-1.99e-04	-3.27e-05	0.0
406	21	-1.63e-04	8.02e-03	-0.17	-2.44e-04	-1.81e-05	0.0
406	25	2.86e-05	7.63e-03	-0.17	-2.45e-04	-1.74e-05	0.0
406	52	-5.50e-03	4.26e-03	-0.15	-1.92e-04	-3.88e-05	0.0
406	53	-1.57e-05	0.01	-0.17	-2.64e-04	-1.56e-05	0.0
406	57	2.92e-04	9.62e-03	-0.17	-2.65e-04	-1.46e-05	0.0
406	70	-5.95e-04	5.04e-03	-0.17	-2.49e-04	-3.22e-05	0.0
406	72	-4.50e-04	4.40e-03	-0.16	-2.18e-04	-2.45e-05	0.0
407	2	-4.22e-04	7.33e-03	-0.22	-3.58e-04	-2.85e-05	0.0
407	20	-3.41e-03	4.53e-03	-0.16	-2.15e-04	-2.61e-05	0.0
407	21	8.25e-05	8.31e-03	-0.17	-2.61e-04	-8.87e-06	0.0
407	25	2.77e-04	7.96e-03	-0.17	-2.61e-04	-8.09e-06	0.0
407	52	-5.31e-03	4.48e-03	-0.16	-2.08e-04	-3.29e-05	0.0
407	53	2.51e-04	0.01	-0.17	-2.82e-04	-5.68e-06	0.0
407	57	5.63e-04	9.94e-03	-0.17	-2.82e-04	-4.44e-06	0.0
407	70	-3.11e-04	5.49e-03	-0.17	-2.68e-04	-2.10e-05	0.0
407	72	-2.25e-04	4.79e-03	-0.16	-2.34e-04	-1.57e-05	0.0
408	2	-2.74e-04	7.29e-03	-0.23	-3.61e-04	-1.48e-05	0.0

408	20	-3.34e-03	4.45e-03	-0.16	-2.18e-04	-1.66e-05	0.0
408	21	1.45e-04	8.13e-03	-0.17	-2.61e-04	-1.58e-06	0.0
408	25	3.45e-04	7.82e-03	-0.17	-2.61e-04	0.0	0.0
408	52	-5.25e-03	4.37e-03	-0.16	-2.13e-04	-2.29e-05	0.0
408	53	2.96e-04	0.01	-0.17	-2.80e-04	0.0	0.0
408	57	6.15e-04	9.73e-03	-0.17	-2.81e-04	2.44e-06	0.0
408	70	-2.00e-04	5.46e-03	-0.17	-2.70e-04	-1.08e-05	0.0
408	72	-1.28e-04	4.76e-03	-0.16	-2.36e-04	-7.02e-06	0.0
409	1	-5.12e-04	5.53e-03	-0.22	-2.74e-04	-2.49e-05	0.0
409	2	-3.56e-04	6.64e-03	-0.23	-3.29e-04	-1.66e-05	0.0
409	15	-3.93e-03	3.97e-03	-0.17	-2.25e-04	-4.25e-05	0.0
409	31	-5.93e-04	8.52e-03	-0.18	-2.50e-04	-2.82e-05	0.0
409	35	-8.35e-04	7.98e-03	-0.18	-2.51e-04	-2.97e-05	0.0
409	47	-6.02e-03	3.81e-03	-0.18	-2.33e-04	-5.63e-05	0.0
409	63	-7.14e-04	0.01	-0.18	-2.73e-04	-3.37e-05	0.0
409	67	-1.10e-03	0.01	-0.18	-2.74e-04	-3.60e-05	0.0
409	69	-3.89e-04	4.25e-03	-0.17	-2.10e-04	-1.89e-05	0.0
409	70	-2.85e-04	4.98e-03	-0.18	-2.47e-04	-1.33e-05	0.0
409	71	-3.89e-04	4.25e-03	-0.17	-2.10e-04	-1.89e-05	0.0
409	72	-3.68e-04	4.39e-03	-0.17	-2.18e-04	-1.78e-05	0.0
410	1	8.40e-05	6.03e-03	-0.21	-2.95e-04	7.78e-06	0.0
410	2	4.41e-06	7.37e-03	-0.23	-3.60e-04	4.73e-06	0.0
410	14	3.19e-03	3.19e-03	-0.16	-2.15e-04	1.22e-05	0.0
410	25	4.44e-04	7.82e-03	-0.17	-2.60e-04	8.92e-06	0.0
410	27	-1.34e-03	8.09e-03	-0.17	-2.61e-04	4.90e-06	0.0
410	46	5.04e-03	2.34e-03	-0.16	-2.09e-04	1.60e-05	0.0
410	57	6.71e-04	9.71e-03	-0.17	-2.80e-04	1.07e-05	0.0
410	59	-2.17e-03	0.01	-0.17	-2.81e-04	4.32e-06	0.0
410	69	6.19e-05	4.63e-03	-0.16	-2.27e-04	5.85e-06	0.0
410	70	8.91e-06	5.52e-03	-0.17	-2.70e-04	3.81e-06	0.0
410	71	6.19e-05	4.63e-03	-0.16	-2.27e-04	5.85e-06	0.0
410	72	5.13e-05	4.81e-03	-0.16	-2.35e-04	5.44e-06	0.0
411	2	2.87e-04	6.88e-03	-0.22	-3.40e-04	1.54e-05	0.0
411	14	3.23e-03	3.01e-03	-0.16	-2.05e-04	1.28e-05	0.0
411	21	4.29e-04	7.62e-03	-0.17	-2.46e-04	1.44e-05	0.0
411	27	-1.11e-03	7.62e-03	-0.17	-2.45e-04	1.34e-05	0.0
411	46	5.01e-03	2.25e-03	-0.16	-2.00e-04	1.35e-05	0.0
411	53	5.52e-04	9.57e-03	-0.17	-2.64e-04	1.60e-05	0.0
411	59	-1.90e-03	9.56e-03	-0.17	-2.64e-04	1.45e-05	0.0
411	70	2.19e-04	5.15e-03	-0.17	-2.55e-04	1.17e-05	0.0
411	72	2.19e-04	4.49e-03	-0.16	-2.22e-04	1.16e-05	0.0
412	1	1.26e-04	5.50e-03	-0.21	-2.73e-04	6.70e-06	0.0
412	2	1.13e-04	6.71e-03	-0.22	-3.33e-04	6.04e-06	0.0
412	14	3.06e-03	3.02e-03	-0.16	-2.01e-04	3.41e-06	0.0
412	21	3.05e-04	7.38e-03	-0.16	-2.40e-04	7.68e-06	0.0
412	27	-1.21e-03	7.38e-03	-0.16	-2.40e-04	8.11e-06	0.0
412	46	4.81e-03	2.31e-03	-0.16	-1.96e-04	2.63e-06	0.0
412	53	4.28e-04	9.25e-03	-0.17	-2.58e-04	9.24e-06	0.0
412	59	-1.99e-03	9.24e-03	-0.17	-2.57e-04	9.83e-06	0.0
412	69	9.53e-05	4.22e-03	-0.16	-2.09e-04	5.07e-06	0.0
412	70	8.63e-05	5.02e-03	-0.17	-2.49e-04	4.62e-06	0.0
412	71	9.53e-05	4.22e-03	-0.16	-2.09e-04	5.07e-06	0.0
412	72	9.35e-05	4.38e-03	-0.16	-2.17e-04	4.98e-06	0.0
413	2	-1.65e-04	6.72e-03	-0.22	-3.33e-04	-8.09e-06	0.0
413	20	-3.04e-03	3.68e-03	-0.16	-2.01e-04	-1.89e-06	0.0
413	21	1.19e-04	7.27e-03	-0.16	-2.40e-04	-1.76e-06	0.0
413	25	2.97e-04	7.15e-03	-0.16	-2.40e-04	-1.81e-06	0.0
413	52	-4.78e-03	3.37e-03	-0.16	-1.95e-04	0.0	0.0
413	53	2.42e-04	9.07e-03	-0.17	-2.57e-04	0.0	0.0
413	57	5.27e-04	8.87e-03	-0.17	-2.57e-04	0.0	0.0
413	70	-1.23e-04	5.03e-03	-0.17	-2.49e-04	-6.02e-06	0.0
413	72	-9.70e-05	4.38e-03	-0.16	-2.18e-04	-4.71e-06	0.0
414	2	-3.52e-04	6.90e-03	-0.22	-3.41e-04	-1.77e-05	0.0
414	20	-3.18e-03	3.68e-03	-0.16	-2.05e-04	-9.18e-06	0.0
414	21	0.0	7.28e-03	-0.16	-2.45e-04	-7.90e-06	0.0
414	25	1.79e-04	7.20e-03	-0.17	-2.45e-04	-7.87e-06	0.0
414	52	-4.93e-03	3.30e-03	-0.16	-1.99e-04	-8.29e-06	0.0
414	53	1.27e-04	9.02e-03	-0.17	-2.62e-04	-6.14e-06	0.0
414	57	4.15e-04	8.90e-03	-0.17	-2.63e-04	-6.05e-06	0.0
414	70	-2.64e-04	5.17e-03	-0.17	-2.55e-04	-1.33e-05	0.0
414	72	-2.27e-04	4.50e-03	-0.16	-2.23e-04	-1.14e-05	0.0
415	2	-1.28e-04	7.32e-03	-0.23	-3.58e-04	-8.84e-06	0.0
415	20	-3.12e-03	3.75e-03	-0.16	-2.15e-04	-8.88e-06	0.0
415	21	1.63e-04	7.46e-03	-0.17	-2.56e-04	-1.48e-06	0.0
415	25	3.49e-04	7.45e-03	-0.17	-2.56e-04	-1.09e-06	0.0
415	52	-4.92e-03	3.25e-03	-0.16	-2.09e-04	-1.07e-05	0.0

415	53	3.09e-04	9.15e-03	-0.17	-2.74e-04	1.03e-06	0.0
415	57	6.06e-04	9.13e-03	-0.17	-2.74e-04	1.64e-06	0.0
415	70	-9.68e-05	5.48e-03	-0.17	-2.68e-04	-6.67e-06	0.0
415	72	-8.77e-05	4.77e-03	-0.16	-2.34e-04	-5.93e-06	0.0
416	2	-1.76e-04	7.27e-03	-0.23	-3.58e-04	-5.52e-06	0.0
416	15	-3.19e-03	5.39e-03	-0.16	-2.34e-04	-6.41e-06	0.0
416	27	-1.47e-03	7.30e-03	-0.17	-2.54e-04	-2.02e-06	0.0
416	47	-5.01e-03	5.88e-03	-0.16	-2.40e-04	-8.26e-06	0.0
416	59	-2.27e-03	8.91e-03	-0.17	-2.71e-04	-1.30e-06	0.0
416	70	-1.31e-04	5.44e-03	-0.17	-2.68e-04	-4.12e-06	0.0
416	72	-1.09e-04	4.74e-03	-0.16	-2.34e-04	-3.44e-06	0.0
417	2	-1.84e-04	7.30e-03	-0.23	-3.59e-04	-4.49e-06	0.0
417	15	-3.19e-03	5.41e-03	-0.16	-2.35e-04	-7.11e-06	0.0
417	31	-3.72e-04	7.34e-03	-0.17	-2.55e-04	-7.59e-06	0.0
417	35	-5.62e-04	7.34e-03	-0.17	-2.56e-04	-8.13e-06	0.0
417	47	-5.01e-03	5.90e-03	-0.16	-2.41e-04	-9.82e-06	0.0
417	63	-5.28e-04	8.97e-03	-0.17	-2.73e-04	-1.06e-05	0.0
417	67	-8.33e-04	8.96e-03	-0.17	-2.73e-04	-1.15e-05	0.0
417	70	-1.37e-04	5.47e-03	-0.17	-2.69e-04	-3.32e-06	0.0
417	72	-1.12e-04	4.76e-03	-0.16	-2.35e-04	-2.65e-06	0.0
418	2	3.44e-04	7.00e-03	-0.22	-3.46e-04	1.86e-05	0.0
418	17	3.20e-03	5.32e-03	-0.16	-2.25e-04	1.14e-05	0.0
418	31	5.78e-06	7.27e-03	-0.17	-2.48e-04	8.65e-06	0.0
418	35	-1.76e-04	7.22e-03	-0.17	-2.48e-04	8.37e-06	0.0
418	49	4.96e-03	5.86e-03	-0.16	-2.30e-04	1.11e-05	0.0
418	63	-1.18e-04	8.96e-03	-0.17	-2.65e-04	6.89e-06	0.0
418	67	-4.08e-04	8.88e-03	-0.17	-2.66e-04	6.51e-06	0.0
418	70	2.59e-04	5.24e-03	-0.17	-2.60e-04	1.40e-05	0.0
418	72	2.25e-04	4.57e-03	-0.16	-2.26e-04	1.21e-05	0.0
419	2	2.95e-04	6.76e-03	-0.22	-3.35e-04	1.55e-05	0.0
419	17	3.13e-03	5.26e-03	-0.16	-2.18e-04	7.03e-06	0.0
419	31	-1.98e-05	7.21e-03	-0.16	-2.40e-04	6.77e-06	0.0
419	35	-1.97e-04	7.11e-03	-0.16	-2.41e-04	6.80e-06	0.0
419	49	4.86e-03	5.86e-03	-0.16	-2.23e-04	5.77e-06	0.0
419	63	-1.36e-04	8.96e-03	-0.17	-2.58e-04	5.27e-06	0.0
419	67	-4.20e-04	8.81e-03	-0.17	-2.58e-04	5.30e-06	0.0
419	70	2.21e-04	5.06e-03	-0.17	-2.51e-04	1.16e-05	0.0
419	72	1.87e-04	4.41e-03	-0.16	-2.19e-04	9.80e-06	0.0
420	2	3.77e-05	6.66e-03	-0.22	-3.31e-04	2.45e-06	0.0
420	4	3.89e-05	5.37e-03	-0.18	-2.67e-04	2.44e-06	0.0
420	17	2.95e-03	5.31e-03	-0.16	-2.16e-04	-1.71e-06	0.0
420	29	1.14e-03	7.11e-03	-0.16	-2.37e-04	-2.61e-06	0.0
420	31	-1.89e-04	7.26e-03	-0.16	-2.38e-04	-1.90e-06	0.0
420	49	4.69e-03	5.97e-03	-0.16	-2.21e-04	-2.97e-06	0.0
420	61	1.81e-03	8.84e-03	-0.17	-2.54e-04	-4.49e-06	0.0
420	63	-3.05e-04	9.07e-03	-0.17	-2.55e-04	-3.38e-06	0.0
420	70	2.71e-05	4.99e-03	-0.17	-2.48e-04	1.78e-06	0.0
420	72	1.09e-05	4.35e-03	-0.16	-2.16e-04	0.0	0.0
421	2	-2.35e-04	6.73e-03	-0.22	-3.34e-04	-1.13e-05	0.0
421	20	-3.16e-03	2.99e-03	-0.16	-2.01e-04	-7.01e-06	0.0
421	29	9.69e-04	7.24e-03	-0.16	-2.40e-04	-1.14e-05	0.0
421	31	-3.76e-04	7.43e-03	-0.16	-2.40e-04	-1.12e-05	0.0
421	52	-4.91e-03	2.27e-03	-0.16	-1.96e-04	-6.35e-06	0.0
421	61	1.64e-03	9.02e-03	-0.17	-2.58e-04	-1.30e-05	0.0
421	63	-4.94e-04	9.32e-03	-0.17	-2.58e-04	-1.28e-05	0.0
421	70	-1.79e-04	5.04e-03	-0.17	-2.50e-04	-8.60e-06	0.0
421	72	-1.77e-04	4.39e-03	-0.16	-2.18e-04	-8.62e-06	0.0
422	2	-3.35e-04	6.96e-03	-0.22	-3.44e-04	-1.66e-05	0.0
422	20	-3.30e-03	3.02e-03	-0.16	-2.06e-04	-1.53e-05	0.0
422	31	-4.55e-04	7.73e-03	-0.17	-2.48e-04	-1.55e-05	0.0
422	33	1.10e-03	7.72e-03	-0.17	-2.49e-04	-1.38e-05	0.0
422	52	-5.09e-03	2.23e-03	-0.16	-2.00e-04	-1.68e-05	0.0
422	63	-5.74e-04	9.70e-03	-0.17	-2.67e-04	-1.72e-05	0.0
422	65	1.90e-03	9.70e-03	-0.17	-2.67e-04	-1.45e-05	0.0
422	70	-2.55e-04	5.21e-03	-0.17	-2.58e-04	-1.26e-05	0.0
422	72	-2.53e-04	4.54e-03	-0.16	-2.25e-04	-1.26e-05	0.0
423	2	1.10e-04	7.43e-03	-0.23	-3.63e-04	2.62e-06	0.0
423	4	1.15e-04	6.00e-03	-0.18	-2.93e-04	3.43e-06	0.0
423	17	3.19e-03	6.15e-03	-0.16	-2.38e-04	7.11e-06	0.0
423	33	1.44e-03	8.18e-03	-0.17	-2.62e-04	0.0	0.0
423	35	-3.77e-04	7.90e-03	-0.17	-2.63e-04	-5.06e-06	0.0
423	49	5.06e-03	7.01e-03	-0.16	-2.44e-04	1.22e-05	0.0
423	65	2.28e-03	0.01	-0.17	-2.82e-04	1.32e-06	0.0
423	67	-6.05e-04	9.80e-03	-0.17	-2.83e-04	-7.11e-06	0.0
423	70	7.66e-05	5.57e-03	-0.17	-2.72e-04	1.68e-06	0.0
423	72	2.11e-05	4.85e-03	-0.16	-2.37e-04	0.0	0.0

424	2	1.42e-04	7.33e-03	-0.23	-3.61e-04	1.03e-05	0.0
424	14	3.26e-03	4.46e-03	-0.16	-2.18e-04	1.38e-05	0.0
424	31	-2.27e-04	8.17e-03	-0.17	-2.60e-04	-1.59e-06	0.0
424	35	-4.25e-04	7.87e-03	-0.17	-2.61e-04	-2.46e-06	0.0
424	46	5.16e-03	4.37e-03	-0.16	-2.12e-04	1.99e-05	0.0
424	63	-3.80e-04	0.01	-0.17	-2.80e-04	-4.53e-06	0.0
424	67	-6.97e-04	9.79e-03	-0.17	-2.80e-04	-5.92e-06	0.0
424	70	1.01e-04	5.49e-03	-0.17	-2.70e-04	7.49e-06	0.0
424	72	4.73e-05	4.79e-03	-0.16	-2.36e-04	4.28e-06	0.0
425	2	1.40e-04	7.37e-03	-0.22	-3.62e-04	1.32e-05	0.0
425	14	3.26e-03	4.51e-03	-0.16	-2.18e-04	1.76e-05	0.0
425	31	-2.48e-04	8.25e-03	-0.17	-2.62e-04	0.0	0.0
425	35	-4.45e-04	7.93e-03	-0.17	-2.62e-04	-1.51e-06	0.0
425	46	5.17e-03	4.43e-03	-0.16	-2.12e-04	2.47e-05	0.0
425	63	-4.16e-04	0.01	-0.17	-2.82e-04	-4.12e-06	0.0
425	67	-7.32e-04	9.87e-03	-0.17	-2.83e-04	-5.52e-06	0.0
425	70	1.01e-04	5.52e-03	-0.17	-2.71e-04	9.67e-06	0.0
425	72	4.96e-05	4.82e-03	-0.16	-2.36e-04	6.23e-06	0.0
426	2	8.19e-04	6.91e-03	-0.22	-3.41e-04	4.34e-05	0.0
426	17	3.63e-03	5.97e-03	-0.16	-2.21e-04	3.32e-05	0.0
426	31	1.97e-04	8.07e-03	-0.17	-2.50e-04	1.86e-05	0.0
426	35	5.09e-06	7.71e-03	-0.17	-2.50e-04	1.79e-05	0.0
426	49	5.51e-03	6.91e-03	-0.16	-2.25e-04	3.91e-05	0.0
426	63	5.78e-05	0.01	-0.17	-2.70e-04	1.62e-05	0.0
426	67	-2.50e-04	9.69e-03	-0.17	-2.70e-04	1.51e-05	0.0
426	70	6.07e-04	5.18e-03	-0.17	-2.56e-04	3.22e-05	0.0
426	72	4.68e-04	4.52e-03	-0.16	-2.24e-04	2.48e-05	0.0
427	2	8.17e-04	6.53e-03	-0.22	-3.24e-04	4.28e-05	0.0
427	17	3.62e-03	5.83e-03	-0.16	-2.10e-04	3.25e-05	0.0
427	31	1.78e-04	7.94e-03	-0.16	-2.39e-04	1.71e-05	0.0
427	35	-1.34e-05	7.53e-03	-0.16	-2.39e-04	1.64e-05	0.0
427	49	5.51e-03	6.81e-03	-0.16	-2.13e-04	3.90e-05	0.0
427	63	4.08e-05	0.01	-0.17	-2.58e-04	1.46e-05	0.0
427	67	-2.66e-04	9.54e-03	-0.17	-2.59e-04	1.36e-05	0.0
427	70	6.03e-04	4.89e-03	-0.17	-2.43e-04	3.16e-05	0.0
427	72	4.50e-04	4.29e-03	-0.16	-2.13e-04	2.36e-05	0.0
428	2	5.34e-04	6.29e-03	-0.22	-3.13e-04	2.85e-05	0.0
428	17	3.47e-03	5.78e-03	-0.16	-2.03e-04	2.47e-05	0.0
428	31	-2.82e-05	7.92e-03	-0.16	-2.32e-04	6.65e-06	0.0
428	35	-2.22e-04	7.47e-03	-0.16	-2.33e-04	5.88e-06	0.0
428	49	5.39e-03	6.83e-03	-0.16	-2.05e-04	3.25e-05	0.0
428	63	-1.70e-04	0.01	-0.17	-2.52e-04	3.89e-06	0.0
428	67	-4.81e-04	9.52e-03	-0.17	-2.53e-04	2.67e-06	0.0
428	70	3.89e-04	4.72e-03	-0.17	-2.35e-04	2.07e-05	0.0
428	72	2.48e-04	4.14e-03	-0.16	-2.06e-04	1.34e-05	0.0
429	2	1.47e-04	6.23e-03	-0.22	-3.10e-04	9.13e-06	0.0
429	4	1.75e-04	5.01e-03	-0.17	-2.49e-04	1.03e-05	0.0
429	20	-3.37e-03	2.10e-03	-0.16	-1.95e-04	-1.79e-05	0.0
429	31	-3.02e-04	8.03e-03	-0.16	-2.32e-04	-7.09e-06	0.0
429	35	-5.01e-04	7.53e-03	-0.16	-2.33e-04	-8.08e-06	0.0
429	52	-5.33e-03	9.98e-04	-0.16	-1.92e-04	-2.75e-05	0.0
429	63	-4.53e-04	0.01	-0.17	-2.52e-04	-1.03e-05	0.0
429	67	-7.71e-04	9.63e-03	-0.17	-2.53e-04	-1.19e-05	0.0
429	70	9.66e-05	4.68e-03	-0.17	-2.33e-04	6.14e-06	0.0
429	71	-4.64e-05	3.98e-03	-0.16	-1.98e-04	-1.42e-06	0.0
429	72	-1.78e-05	4.12e-03	-0.16	-2.05e-04	0.0	0.0
430	1	-3.58e-04	5.31e-03	-0.21	-2.64e-04	-1.67e-05	0.0
430	2	-1.90e-04	6.36e-03	-0.22	-3.16e-04	-7.73e-06	0.0
430	20	-3.68e-03	2.10e-03	-0.16	-2.00e-04	-3.34e-05	0.0
430	31	-5.38e-04	8.28e-03	-0.16	-2.38e-04	-1.89e-05	0.0
430	35	-7.45e-04	7.74e-03	-0.16	-2.39e-04	-2.03e-05	0.0
430	52	-5.70e-03	9.40e-04	-0.16	-1.98e-04	-4.56e-05	0.0
430	63	-6.96e-04	0.01	-0.17	-2.59e-04	-2.26e-05	0.0
430	67	-1.03e-03	9.90e-03	-0.17	-2.61e-04	-2.48e-05	0.0
430	69	-2.69e-04	4.08e-03	-0.16	-2.02e-04	-1.26e-05	0.0
430	70	-1.57e-04	4.78e-03	-0.17	-2.37e-04	-6.56e-06	0.0
430	71	-2.69e-04	4.08e-03	-0.16	-2.02e-04	-1.26e-05	0.0
430	72	-2.47e-04	4.22e-03	-0.16	-2.09e-04	-1.14e-05	0.0
431	1	-4.34e-04	5.59e-03	-0.21	-2.76e-04	-2.11e-05	0.0
431	2	-2.79e-04	6.68e-03	-0.22	-3.30e-04	-1.29e-05	0.0
431	20	-3.89e-03	2.20e-03	-0.16	-2.11e-04	-4.34e-05	0.0
431	31	-5.89e-04	8.66e-03	-0.17	-2.51e-04	-2.27e-05	0.0
431	35	-8.10e-04	8.08e-03	-0.17	-2.52e-04	-2.46e-05	0.0
431	52	-6.00e-03	9.80e-04	-0.16	-2.10e-04	-5.96e-05	0.0
431	63	-7.42e-04	0.01	-0.17	-2.73e-04	-2.66e-05	0.0
431	67	-1.10e-03	0.01	-0.17	-2.75e-04	-2.97e-05	0.0

431	69	-3.28e-04	4.29e-03	-0.16	-2.12e-04	-1.60e-05	0.0
431	70	-2.24e-04	5.02e-03	-0.17	-2.48e-04	-1.05e-05	0.0
431	71	-3.28e-04	4.29e-03	-0.16	-2.12e-04	-1.60e-05	0.0
431	72	-3.07e-04	4.44e-03	-0.16	-2.19e-04	-1.49e-05	0.0
432	1	-5.27e-04	5.69e-03	-0.21	-2.82e-04	-2.38e-05	0.0
432	2	-4.01e-04	6.79e-03	-0.22	-3.36e-04	-1.65e-05	0.0
432	15	-4.00e-03	4.00e-03	-0.17	-2.35e-04	-4.79e-05	0.0
432	19	-3.70e-03	4.72e-03	-0.17	-2.40e-04	-4.80e-05	0.0
432	31	-7.15e-04	8.80e-03	-0.17	-2.55e-04	-2.62e-05	0.0
432	47	-6.13e-03	3.79e-03	-0.17	-2.46e-04	-6.54e-05	0.0
432	51	-5.65e-03	4.94e-03	-0.17	-2.54e-04	-6.57e-05	0.0
432	63	-9.01e-04	0.01	-0.17	-2.78e-04	-3.10e-05	0.0
432	69	-4.00e-04	4.37e-03	-0.16	-2.16e-04	-1.80e-05	0.0
432	70	-3.16e-04	5.10e-03	-0.17	-2.53e-04	-1.31e-05	0.0
432	71	-4.00e-04	4.37e-03	-0.16	-2.16e-04	-1.80e-05	0.0
432	72	-3.83e-04	4.52e-03	-0.16	-2.24e-04	-1.70e-05	0.0
433	1	6.68e-04	5.76e-03	-0.22	-2.84e-04	3.24e-05	0.0
433	2	5.45e-04	6.90e-03	-0.24	-3.40e-04	2.56e-05	0.0
433	17	4.11e-03	4.11e-03	-0.18	-2.34e-04	5.11e-05	0.0
433	21	7.36e-04	8.85e-03	-0.18	-2.61e-04	3.45e-05	0.0
433	25	9.83e-04	8.27e-03	-0.18	-2.62e-04	3.62e-05	0.0
433	49	6.23e-03	3.94e-03	-0.18	-2.44e-04	6.66e-05	0.0
433	53	8.70e-04	0.01	-0.18	-2.87e-04	4.02e-05	0.0
433	57	1.27e-03	0.01	-0.18	-2.88e-04	4.30e-05	0.0
433	69	5.08e-04	4.42e-03	-0.17	-2.18e-04	2.46e-05	0.0
433	70	4.27e-04	5.18e-03	-0.18	-2.55e-04	2.01e-05	0.0
433	71	5.08e-04	4.42e-03	-0.17	-2.18e-04	2.46e-05	0.0
433	72	4.92e-04	4.57e-03	-0.17	-2.25e-04	2.37e-05	0.0
434	1	3.78e-04	5.49e-03	-0.22	-2.73e-04	1.75e-05	0.0
434	2	1.99e-04	6.60e-03	-0.23	-3.27e-04	7.82e-06	0.0
434	17	3.79e-03	3.96e-03	-0.17	-2.23e-04	3.48e-05	0.0
434	21	4.91e-04	8.42e-03	-0.18	-2.48e-04	2.17e-05	0.0
434	25	7.30e-04	7.89e-03	-0.18	-2.49e-04	2.30e-05	0.0
434	49	5.86e-03	3.81e-03	-0.18	-2.31e-04	4.74e-05	0.0
434	53	6.12e-04	0.01	-0.18	-2.71e-04	2.66e-05	0.0
434	57	9.95e-04	0.01	-0.18	-2.72e-04	2.87e-05	0.0
434	69	2.85e-04	4.22e-03	-0.17	-2.09e-04	1.32e-05	0.0
434	70	1.66e-04	4.96e-03	-0.18	-2.46e-04	6.74e-06	0.0
434	71	2.85e-04	4.22e-03	-0.17	-2.09e-04	1.32e-05	0.0
434	72	2.61e-04	4.36e-03	-0.17	-2.16e-04	1.19e-05	0.0
435	2	-3.22e-04	6.55e-03	-0.23	-3.26e-04	-1.87e-05	0.0
435	20	-3.46e-03	4.35e-03	-0.16	-1.95e-04	-2.14e-05	0.0
435	21	1.18e-04	8.22e-03	-0.18	-2.44e-04	2.52e-06	0.0
435	25	3.49e-04	7.74e-03	-0.18	-2.45e-04	3.46e-06	0.0
435	52	-5.46e-03	4.46e-03	-0.16	-1.87e-04	-3.14e-05	0.0
435	53	2.21e-04	0.01	-0.18	-2.66e-04	6.30e-06	0.0
435	57	5.91e-04	9.85e-03	-0.18	-2.67e-04	7.81e-06	0.0
435	70	-2.26e-04	4.92e-03	-0.18	-2.44e-04	-1.32e-05	0.0
435	72	-9.01e-05	4.32e-03	-0.17	-2.15e-04	-5.98e-06	0.0
436	2	-8.30e-04	6.70e-03	-0.24	-3.32e-04	-4.46e-05	0.0
436	15	-3.73e-03	6.02e-03	-0.17	-2.16e-04	-3.42e-05	0.0
436	21	-2.56e-04	8.17e-03	-0.18	-2.47e-04	-1.65e-05	0.0
436	25	-2.93e-05	7.74e-03	-0.18	-2.48e-04	-1.57e-05	0.0
436	47	-5.70e-03	7.06e-03	-0.17	-2.19e-04	-4.18e-05	0.0
436	53	-1.75e-04	0.01	-0.18	-2.69e-04	-1.39e-05	0.0
436	57	1.89e-04	9.80e-03	-0.18	-2.69e-04	-1.26e-05	0.0
436	70	-6.09e-04	5.02e-03	-0.18	-2.49e-04	-3.28e-05	0.0
436	72	-4.38e-04	4.40e-03	-0.17	-2.18e-04	-2.37e-05	0.0
437	2	-1.12e-03	7.01e-03	-0.24	-3.47e-04	-5.99e-05	0.0
437	15	-3.91e-03	6.12e-03	-0.17	-2.25e-04	-4.35e-05	0.0
437	21	-4.82e-04	8.26e-03	-0.18	-2.56e-04	-2.80e-05	0.0
437	25	-2.56e-04	7.87e-03	-0.18	-2.56e-04	-2.72e-05	0.0
437	47	-5.86e-03	7.11e-03	-0.17	-2.29e-04	-5.02e-05	0.0
437	53	-4.12e-04	0.01	-0.18	-2.78e-04	-2.58e-05	0.0
437	57	-4.96e-05	9.90e-03	-0.18	-2.79e-04	-2.47e-05	0.0
437	70	-8.32e-04	5.25e-03	-0.18	-2.60e-04	-4.44e-05	0.0
437	72	-6.48e-04	4.59e-03	-0.17	-2.27e-04	-3.46e-05	0.0
438	2	-1.01e-03	7.59e-03	-0.24	-3.72e-04	-5.35e-05	0.0
438	15	-3.85e-03	6.41e-03	-0.17	-2.42e-04	-4.07e-05	0.0
438	21	-4.38e-04	8.57e-03	-0.18	-2.74e-04	-2.53e-05	0.0
438	25	-2.10e-04	8.21e-03	-0.18	-2.74e-04	-2.44e-05	0.0
438	47	-5.79e-03	7.38e-03	-0.17	-2.48e-04	-4.74e-05	0.0
438	53	-3.70e-04	0.01	-0.18	-2.97e-04	-2.32e-05	0.0
438	57	-6.76e-06	0.01	-0.18	-2.98e-04	-2.18e-05	0.0
438	70	-7.47e-04	5.69e-03	-0.18	-2.78e-04	-3.97e-05	0.0
438	72	-5.91e-04	4.94e-03	-0.17	-2.42e-04	-3.14e-05	0.0

439	1	-7.09e-04	5.86e-03	-0.22	-2.88e-04	-3.51e-05	0.0
439	2	-5.97e-04	7.02e-03	-0.24	-3.44e-04	-2.90e-05	0.0
439	15	-4.19e-03	4.18e-03	-0.18	-2.39e-04	-5.63e-05	0.0
439	31	-7.63e-04	9.05e-03	-0.18	-2.67e-04	-3.72e-05	0.0
439	35	-1.01e-03	8.45e-03	-0.18	-2.68e-04	-3.92e-05	0.0
439	47	-6.34e-03	4.00e-03	-0.18	-2.49e-04	-7.37e-05	0.0
439	63	-8.94e-04	0.01	-0.18	-2.94e-04	-4.33e-05	0.0
439	67	-1.30e-03	0.01	-0.19	-2.96e-04	-4.66e-05	0.0
439	69	-5.40e-04	4.50e-03	-0.17	-2.21e-04	-2.67e-05	0.0
439	70	-4.65e-04	5.27e-03	-0.18	-2.59e-04	-2.27e-05	0.0
439	71	-5.40e-04	4.50e-03	-0.17	-2.21e-04	-2.67e-05	0.0
439	72	-5.25e-04	4.65e-03	-0.17	-2.28e-04	-2.59e-05	0.0
440	2	4.45e-04	7.56e-03	-0.24	-3.72e-04	2.29e-05	0.0
440	17	3.51e-03	5.00e-03	-0.17	-2.43e-04	2.41e-05	0.0
440	21	4.84e-04	8.30e-03	-0.18	-2.72e-04	2.26e-05	0.0
440	25	7.03e-04	8.04e-03	-0.18	-2.72e-04	2.31e-05	0.0
440	49	5.38e-03	5.17e-03	-0.18	-2.48e-04	2.81e-05	0.0
440	53	5.73e-04	0.01	-0.18	-2.94e-04	2.59e-05	0.0
440	57	9.23e-04	1.00e-02	-0.18	-2.95e-04	2.66e-05	0.0
440	70	3.39e-04	5.66e-03	-0.18	-2.78e-04	1.74e-05	0.0
440	72	3.34e-04	4.92e-03	-0.17	-2.42e-04	1.72e-05	0.0
441	2	4.79e-04	7.18e-03	-0.24	-3.55e-04	2.50e-05	0.0
441	17	3.44e-03	4.85e-03	-0.17	-2.32e-04	1.86e-05	0.0
441	21	4.80e-04	7.87e-03	-0.18	-2.58e-04	2.26e-05	0.0
441	27	-1.07e-03	7.86e-03	-0.18	-2.57e-04	2.15e-05	0.0
441	49	5.28e-03	5.05e-03	-0.17	-2.37e-04	1.90e-05	0.0
441	53	5.63e-04	9.85e-03	-0.18	-2.78e-04	2.55e-05	0.0
441	59	-1.90e-03	9.84e-03	-0.18	-2.78e-04	2.38e-05	0.0
441	70	3.62e-04	5.37e-03	-0.18	-2.66e-04	1.90e-05	0.0
441	72	3.44e-04	4.68e-03	-0.17	-2.32e-04	1.80e-05	0.0
442	1	1.80e-04	5.75e-03	-0.22	-2.85e-04	9.40e-06	0.0
442	2	1.78e-04	7.02e-03	-0.24	-3.48e-04	9.27e-06	0.0
442	17	3.17e-03	4.85e-03	-0.17	-2.28e-04	4.35e-06	0.0
442	21	2.61e-04	7.63e-03	-0.18	-2.52e-04	1.10e-05	0.0
442	27	-1.26e-03	7.62e-03	-0.18	-2.52e-04	1.17e-05	0.0
442	49	4.97e-03	5.11e-03	-0.17	-2.33e-04	2.88e-06	0.0
442	53	3.33e-04	9.53e-03	-0.18	-2.71e-04	1.33e-05	0.0
442	59	-2.08e-03	9.52e-03	-0.18	-2.71e-04	1.43e-05	0.0
442	69	1.37e-04	4.41e-03	-0.17	-2.19e-04	7.15e-06	0.0
442	70	1.35e-04	5.26e-03	-0.18	-2.61e-04	7.06e-06	0.0
442	71	1.37e-04	4.41e-03	-0.17	-2.19e-04	7.15e-06	0.0
442	72	1.37e-04	4.58e-03	-0.17	-2.27e-04	7.13e-06	0.0
443	2	-2.43e-04	7.04e-03	-0.24	-3.49e-04	-1.23e-05	0.0
443	15	-3.16e-03	5.52e-03	-0.17	-2.28e-04	-4.00e-06	0.0
443	21	-3.48e-05	7.52e-03	-0.18	-2.52e-04	-4.10e-06	0.0
443	25	1.74e-04	7.39e-03	-0.18	-2.52e-04	-4.20e-06	0.0
443	47	-4.95e-03	6.18e-03	-0.17	-2.33e-04	-2.32e-06	0.0
443	53	2.57e-05	9.35e-03	-0.18	-2.71e-04	-2.41e-06	0.0
443	57	3.59e-04	9.15e-03	-0.18	-2.71e-04	-2.56e-06	0.0
443	70	-1.81e-04	5.27e-03	-0.18	-2.61e-04	-9.21e-06	0.0
443	72	-1.47e-04	4.59e-03	-0.17	-2.27e-04	-7.43e-06	0.0
444	2	-5.46e-04	7.22e-03	-0.24	-3.57e-04	-2.81e-05	0.0
444	15	-3.39e-03	5.54e-03	-0.17	-2.33e-04	-1.56e-05	0.0
444	21	-2.37e-04	7.54e-03	-0.18	-2.57e-04	-1.46e-05	0.0
444	25	-2.57e-05	7.46e-03	-0.18	-2.58e-04	-1.46e-05	0.0
444	47	-5.19e-03	6.14e-03	-0.17	-2.38e-04	-1.47e-05	0.0
444	53	-1.78e-04	9.31e-03	-0.18	-2.77e-04	-1.30e-05	0.0
444	57	1.60e-04	9.19e-03	-0.18	-2.77e-04	-1.29e-05	0.0
444	70	-4.10e-04	5.41e-03	-0.18	-2.67e-04	-2.11e-05	0.0
444	72	-3.52e-04	4.70e-03	-0.17	-2.33e-04	-1.81e-05	0.0
445	2	-5.17e-04	7.68e-03	-0.24	-3.75e-04	-2.62e-05	0.0
445	15	-3.42e-03	5.76e-03	-0.17	-2.45e-04	-1.80e-05	0.0
445	25	-2.69e-06	7.74e-03	-0.18	-2.71e-04	-1.28e-05	0.0
445	27	-1.76e-03	7.78e-03	-0.18	-2.71e-04	-1.42e-05	0.0
445	47	-5.25e-03	6.32e-03	-0.17	-2.52e-04	-1.89e-05	0.0
445	57	1.90e-04	9.48e-03	-0.18	-2.92e-04	-1.06e-05	0.0
445	59	-2.61e-03	9.54e-03	-0.18	-2.92e-04	-1.29e-05	0.0
445	70	-3.88e-04	5.75e-03	-0.19	-2.81e-04	-1.96e-05	0.0
445	72	-3.38e-04	4.99e-03	-0.17	-2.44e-04	-1.71e-05	0.0
446	2	-1.70e-03	-2.09e-04	-0.51	0.0	-8.88e-05	0.0
446	10	0.05	-2.02e-03	-0.35	5.89e-06	2.71e-05	3.53e-05
446	20	-0.06	-1.87e-03	-0.33	5.63e-06	-1.43e-04	3.41e-05
446	26	0.02	-0.06	-0.34	-1.20e-05	-3.22e-05	-3.34e-05
446	42	0.09	-3.14e-03	-0.35	9.83e-06	7.69e-05	5.60e-05
446	52	-0.09	-2.87e-03	-0.33	9.41e-06	-1.93e-04	5.42e-05
446	58	0.03	-0.09	-0.35	-1.83e-05	-1.73e-05	-5.29e-05

446	70	-1.28e-03	-1.57e-04	-0.39	0.0	-6.70e-05	0.0
446	72	-1.13e-03	-1.36e-04	-0.35	0.0	-5.95e-05	0.0
447	1	-5.19e-04	-5.90e-03	-0.22	2.92e-04	-2.52e-05	0.0
447	2	-3.85e-04	-7.07e-03	-0.24	3.49e-04	-1.80e-05	0.0
447	8	-4.11e-03	-4.05e-03	-0.18	2.43e-04	-5.13e-05	0.0
447	12	-3.75e-03	-4.85e-03	-0.18	2.49e-04	-5.17e-05	0.0
447	36	-6.10e-04	-9.28e-03	-0.18	2.71e-04	-2.86e-05	0.0
447	40	-6.31e-03	-3.78e-03	-0.19	2.55e-04	-7.02e-05	0.0
447	44	-5.74e-03	-5.05e-03	-0.19	2.64e-04	-7.08e-05	0.0
447	68	-7.38e-04	-0.01	-0.19	2.98e-04	-3.41e-05	0.0
447	69	-3.94e-04	-4.53e-03	-0.17	2.24e-04	-1.91e-05	0.0
447	70	-3.05e-04	-5.31e-03	-0.18	2.62e-04	-1.43e-05	0.0
447	71	-3.94e-04	-4.53e-03	-0.17	2.24e-04	-1.91e-05	0.0
447	72	-3.76e-04	-4.69e-03	-0.17	2.32e-04	-1.82e-05	0.0
448	1	-5.11e-04	5.82e-03	-0.22	-2.89e-04	-2.51e-05	0.0
448	2	-3.75e-04	6.98e-03	-0.24	-3.46e-04	-1.78e-05	0.0
448	15	-4.09e-03	3.98e-03	-0.18	-2.41e-04	-5.09e-05	0.0
448	19	-3.72e-03	4.77e-03	-0.18	-2.47e-04	-5.11e-05	0.0
448	31	-5.83e-04	9.20e-03	-0.18	-2.68e-04	-2.79e-05	0.0
448	47	-6.27e-03	3.70e-03	-0.19	-2.52e-04	-6.96e-05	0.0
448	51	-5.70e-03	4.96e-03	-0.19	-2.61e-04	-7.00e-05	0.0
448	63	-6.98e-04	0.01	-0.19	-2.95e-04	-3.31e-05	0.0
448	69	-3.88e-04	4.47e-03	-0.17	-2.22e-04	-1.90e-05	0.0
448	70	-2.97e-04	5.24e-03	-0.18	-2.60e-04	-1.42e-05	0.0
448	71	-3.88e-04	4.47e-03	-0.17	-2.22e-04	-1.90e-05	0.0
448	72	-3.70e-04	4.63e-03	-0.17	-2.30e-04	-1.81e-05	0.0
449	1	-4.46e-04	-5.97e-03	-0.21	2.95e-04	-2.02e-05	0.0
449	2	-3.13e-04	-7.15e-03	-0.23	3.52e-04	-1.25e-05	0.0
449	8	-3.98e-03	-4.14e-03	-0.17	2.47e-04	-4.63e-05	0.0
449	12	-3.66e-03	-4.93e-03	-0.17	2.53e-04	-4.65e-05	0.0
449	36	-6.37e-04	-9.31e-03	-0.17	2.72e-04	-2.41e-05	0.0
449	40	-6.13e-03	-3.89e-03	-0.18	2.60e-04	-6.45e-05	0.0
449	44	-5.62e-03	-5.15e-03	-0.18	2.69e-04	-6.50e-05	0.0
449	68	-8.13e-04	-0.01	-0.18	3.00e-04	-2.92e-05	0.0
449	69	-3.38e-04	-4.59e-03	-0.16	2.26e-04	-1.53e-05	0.0
449	70	-2.49e-04	-5.37e-03	-0.17	2.65e-04	-1.01e-05	0.0
449	71	-3.38e-04	-4.59e-03	-0.16	2.26e-04	-1.53e-05	0.0
449	72	-3.20e-04	-4.74e-03	-0.17	2.34e-04	-1.42e-05	0.0
450	1	-1.67e-04	-5.48e-03	-0.20	2.72e-04	-7.07e-06	0.0
450	2	2.37e-05	-6.52e-03	-0.21	3.24e-04	3.16e-06	0.0
450	11	-3.61e-03	-2.06e-03	-0.16	2.15e-04	-3.24e-05	0.0
450	12	-3.33e-03	-4.53e-03	-0.16	2.35e-04	-3.19e-05	0.0
450	36	-4.59e-04	-8.70e-03	-0.16	2.45e-04	-1.05e-05	0.0
450	43	-5.67e-03	-8.05e-04	-0.16	2.18e-04	-4.85e-05	0.0
450	44	-5.22e-03	-4.74e-03	-0.17	2.50e-04	-4.77e-05	0.0
450	68	-6.57e-04	-0.01	-0.16	2.67e-04	-1.37e-05	0.0
450	69	-1.23e-04	-4.21e-03	-0.15	2.09e-04	-5.14e-06	0.0
450	70	4.34e-06	-4.90e-03	-0.16	2.43e-04	1.68e-06	0.0
450	71	-1.23e-04	-4.21e-03	-0.15	2.09e-04	-5.14e-06	0.0
450	72	-9.74e-05	-4.35e-03	-0.15	2.16e-04	-3.78e-06	0.0
451	2	3.32e-04	-5.51e-03	-0.19	2.74e-04	1.80e-05	0.0
451	10	3.38e-03	-5.67e-03	-0.14	1.70e-04	2.77e-05	0.0
451	12	-2.98e-03	-3.84e-03	-0.15	2.00e-04	-1.71e-05	0.0
451	36	-3.28e-04	-7.91e-03	-0.15	2.06e-04	1.07e-06	0.0
451	42	5.32e-03	-6.90e-03	-0.13	1.66e-04	4.11e-05	0.0
451	44	-4.78e-03	-4.03e-03	-0.15	2.13e-04	-3.00e-05	0.0
451	68	-5.70e-04	-0.01	-0.15	2.24e-04	-1.15e-06	0.0
451	70	2.38e-04	-4.14e-03	-0.15	2.06e-04	1.29e-05	0.0
451	72	1.14e-04	-3.68e-03	-0.14	1.83e-04	6.45e-06	0.0
452	2	5.70e-04	-4.21e-03	-0.18	2.09e-04	2.97e-05	0.0
452	10	3.37e-03	-4.82e-03	-0.13	1.30e-04	3.22e-05	0.0
452	12	-2.71e-03	-2.96e-03	-0.14	1.54e-04	-5.82e-06	0.0
452	36	-2.69e-04	-6.95e-03	-0.14	1.59e-04	9.48e-06	0.0
452	42	5.22e-03	-6.05e-03	-0.13	1.26e-04	4.37e-05	0.0
452	44	-4.46e-03	-3.11e-03	-0.15	1.66e-04	-1.68e-05	0.0
452	68	-5.71e-04	-9.45e-03	-0.14	1.73e-04	7.54e-06	0.0
452	70	4.18e-04	-3.17e-03	-0.14	1.57e-04	2.18e-05	0.0
452	72	2.79e-04	-2.81e-03	-0.14	1.40e-04	1.46e-05	0.0
453	2	7.32e-04	-2.73e-03	-0.17	1.36e-04	3.76e-05	0.0
453	10	3.34e-03	-3.87e-03	-0.12	8.39e-05	3.51e-05	0.0
453	12	-2.52e-03	-1.95e-03	-0.13	1.03e-04	1.84e-06	0.0
453	36	-2.74e-04	-5.91e-03	-0.13	1.07e-04	1.48e-05	0.0
453	42	5.10e-03	-5.10e-03	-0.12	8.15e-05	4.51e-05	0.0
453	44	-4.22e-03	-2.07e-03	-0.14	1.12e-04	-7.79e-06	0.0
453	68	-6.43e-04	-8.35e-03	-0.13	1.19e-04	1.28e-05	0.0
453	70	5.41e-04	-2.05e-03	-0.13	1.02e-04	2.78e-05	0.0

453	72	3.91e-04	-1.82e-03	-0.13	9.07e-05	2.01e-05	0.0
454	2	8.18e-04	-1.14e-03	-0.17	5.68e-05	4.18e-05	0.0
454	10	3.28e-03	-2.87e-03	-0.12	3.53e-05	3.63e-05	0.0
454	12	-2.41e-03	-8.70e-04	-0.13	4.82e-05	6.07e-06	0.0
454	36	-3.38e-04	-4.83e-03	-0.13	5.42e-05	1.72e-05	0.0
454	42	4.97e-03	-4.12e-03	-0.12	3.44e-05	4.53e-05	0.0
454	44	-4.07e-03	-9.59e-04	-0.13	5.49e-05	-2.77e-06	0.0
454	68	-7.79e-04	-7.24e-03	-0.13	6.44e-05	1.49e-05	0.0
454	70	6.06e-04	-8.57e-04	-0.13	4.27e-05	3.10e-05	0.0
454	72	4.51e-04	-7.61e-04	-0.13	3.79e-05	2.30e-05	0.0
455	2	8.31e-04	4.91e-04	-0.17	-2.44e-05	4.25e-05	0.0
455	17	3.25e-03	2.46e-03	-0.12	-1.56e-05	3.64e-05	0.0
455	19	-2.38e-03	4.38e-04	-0.13	-2.58e-05	6.80e-06	0.0
455	31	-3.76e-04	4.40e-03	-0.13	-3.11e-05	1.75e-05	0.0
455	49	4.91e-03	3.71e-03	-0.12	-1.55e-05	4.52e-05	0.0
455	51	-4.04e-03	5.19e-04	-0.13	-3.17e-05	-1.86e-06	0.0
455	63	-8.45e-04	6.81e-03	-0.13	-4.00e-05	1.51e-05	0.0
455	70	6.16e-04	3.69e-04	-0.13	-1.83e-05	3.15e-05	0.0
455	72	4.60e-04	3.28e-04	-0.13	-1.63e-05	2.35e-05	0.0
456	2	7.72e-04	2.10e-03	-0.17	-1.05e-04	3.96e-05	0.0
456	17	3.32e-03	3.47e-03	-0.12	-6.48e-05	3.58e-05	0.0
456	19	-2.47e-03	1.53e-03	-0.13	-8.12e-05	3.82e-06	0.0
456	31	-2.90e-04	5.49e-03	-0.13	-8.62e-05	1.61e-05	0.0
456	49	5.06e-03	4.71e-03	-0.12	-6.31e-05	4.54e-05	0.0
456	51	-4.16e-03	1.64e-03	-0.14	-8.91e-05	-5.46e-06	0.0
456	63	-6.86e-04	7.91e-03	-0.13	-9.69e-05	1.41e-05	0.0
456	70	5.71e-04	1.58e-03	-0.13	-7.87e-05	2.93e-05	0.0
456	72	4.19e-04	1.41e-03	-0.13	-6.99e-05	2.15e-05	0.0
457	2	6.38e-04	3.64e-03	-0.18	-1.81e-04	3.31e-05	0.0
457	17	3.37e-03	4.45e-03	-0.13	-1.12e-04	3.36e-05	0.0
457	19	-2.63e-03	2.57e-03	-0.14	-1.34e-04	-2.53e-06	0.0
457	31	-2.64e-04	6.55e-03	-0.14	-1.39e-04	1.19e-05	0.0
457	49	5.18e-03	5.67e-03	-0.12	-1.09e-04	4.44e-05	0.0
457	51	-4.36e-03	2.71e-03	-0.14	-1.44e-04	-1.29e-05	0.0
457	63	-5.90e-04	9.02e-03	-0.14	-1.52e-04	1.00e-05	0.0
457	70	4.70e-04	2.73e-03	-0.14	-1.36e-04	2.44e-05	0.0
457	72	3.26e-04	2.43e-03	-0.13	-1.21e-04	1.70e-05	0.0
458	2	4.25e-04	5.02e-03	-0.19	-2.49e-04	2.28e-05	0.0
458	17	3.38e-03	5.35e-03	-0.13	-1.55e-04	2.96e-05	0.0
458	19	-2.87e-03	3.51e-03	-0.15	-1.82e-04	-1.25e-05	0.0
458	31	-3.00e-04	7.54e-03	-0.14	-1.88e-04	4.61e-06	0.0
458	49	5.28e-03	6.57e-03	-0.13	-1.51e-04	4.22e-05	0.0
458	51	-4.65e-03	3.68e-03	-0.15	-1.95e-04	-2.46e-05	0.0
458	63	-5.63e-04	0.01	-0.15	-2.04e-04	2.57e-06	0.0
458	70	3.08e-04	3.77e-03	-0.14	-1.87e-04	1.65e-05	0.0
458	72	1.79e-04	3.35e-03	-0.14	-1.66e-04	9.78e-06	0.0
459	2	1.27e-04	6.16e-03	-0.20	-3.06e-04	8.58e-06	0.0
459	4	1.58e-04	4.95e-03	-0.16	-2.46e-04	9.81e-06	0.0
459	19	-3.20e-03	4.29e-03	-0.16	-2.22e-04	-2.63e-05	0.0
459	20	-3.47e-03	1.85e-03	-0.15	-2.04e-04	-2.70e-05	0.0
459	31	-4.14e-04	8.41e-03	-0.15	-2.31e-04	-6.15e-06	0.0
459	51	-5.06e-03	4.48e-03	-0.16	-2.36e-04	-4.09e-05	0.0
459	52	-5.48e-03	6.06e-04	-0.16	-2.07e-04	-4.20e-05	0.0
459	63	-6.27e-04	0.01	-0.16	-2.50e-04	-8.90e-06	0.0
459	70	8.30e-05	4.63e-03	-0.15	-2.30e-04	5.79e-06	0.0
459	71	-5.28e-05	3.98e-03	-0.15	-1.97e-04	-1.47e-06	0.0
459	72	-2.57e-05	4.11e-03	-0.15	-2.04e-04	0.0	0.0
460	1	-4.23e-04	5.87e-03	-0.21	-2.90e-04	-1.82e-05	0.0
460	2	-2.90e-04	7.01e-03	-0.22	-3.45e-04	-1.03e-05	0.0
460	15	-3.88e-03	4.07e-03	-0.17	-2.43e-04	-4.29e-05	0.0
460	19	-3.59e-03	4.85e-03	-0.17	-2.49e-04	-4.32e-05	0.0
460	31	-6.55e-04	9.15e-03	-0.17	-2.65e-04	-2.22e-05	0.0
460	47	-5.98e-03	3.82e-03	-0.17	-2.55e-04	-6.00e-05	0.0
460	51	-5.52e-03	5.06e-03	-0.18	-2.64e-04	-6.05e-05	0.0
460	63	-8.53e-04	0.01	-0.17	-2.90e-04	-2.71e-05	0.0
460	69	-3.20e-04	4.51e-03	-0.16	-2.22e-04	-1.37e-05	0.0
460	70	-2.31e-04	5.27e-03	-0.17	-2.60e-04	-8.47e-06	0.0
460	71	-3.20e-04	4.51e-03	-0.16	-2.22e-04	-1.37e-05	0.0
460	72	-3.02e-04	4.66e-03	-0.16	-2.30e-04	-1.27e-05	0.0
461	1	5.17e-04	-5.93e-03	-0.22	2.93e-04	2.49e-05	0.0
461	2	3.83e-04	-7.11e-03	-0.24	3.50e-04	1.76e-05	0.0
461	6	3.75e-03	-4.86e-03	-0.18	2.50e-04	5.13e-05	0.0
461	10	4.11e-03	-4.07e-03	-0.18	2.44e-04	5.10e-05	0.0
461	26	6.17e-04	-9.29e-03	-0.18	2.71e-04	2.81e-05	0.0
461	38	5.74e-03	-5.06e-03	-0.19	2.65e-04	7.04e-05	0.0
461	42	6.31e-03	-3.80e-03	-0.19	2.55e-04	6.99e-05	0.0

461	58	7.49e-04	-0.01	-0.19	2.99e-04	3.34e-05	0.0
461	69	3.92e-04	-4.55e-03	-0.17	2.25e-04	1.89e-05	0.0
461	70	3.03e-04	-5.34e-03	-0.18	2.63e-04	1.40e-05	0.0
461	71	3.92e-04	-4.55e-03	-0.17	2.25e-04	1.89e-05	0.0
461	72	3.75e-04	-4.71e-03	-0.17	2.32e-04	1.79e-05	0.0
462	1	5.15e-04	5.84e-03	-0.22	-2.90e-04	2.48e-05	0.0
462	2	3.82e-04	7.00e-03	-0.24	-3.47e-04	1.75e-05	0.0
462	13	3.73e-03	4.77e-03	-0.18	-2.46e-04	5.06e-05	0.0
462	17	4.09e-03	3.98e-03	-0.18	-2.41e-04	5.05e-05	0.0
462	21	6.00e-04	9.19e-03	-0.18	-2.68e-04	2.75e-05	0.0
462	45	5.70e-03	4.95e-03	-0.19	-2.61e-04	6.94e-05	0.0
462	49	6.28e-03	3.69e-03	-0.19	-2.51e-04	6.90e-05	0.0
462	53	7.22e-04	0.01	-0.19	-2.95e-04	3.26e-05	0.0
462	69	3.91e-04	4.48e-03	-0.17	-2.22e-04	1.88e-05	0.0
462	70	3.02e-04	5.25e-03	-0.18	-2.60e-04	1.39e-05	0.0
462	71	3.91e-04	4.48e-03	-0.17	-2.22e-04	1.88e-05	0.0
462	72	3.73e-04	4.64e-03	-0.17	-2.30e-04	1.78e-05	0.0
463	1	4.74e-04	-6.00e-03	-0.21	2.96e-04	2.06e-05	0.0
463	2	3.47e-04	-7.18e-03	-0.23	3.53e-04	1.30e-05	0.0
463	6	3.69e-03	-4.94e-03	-0.17	2.54e-04	4.68e-05	0.0
463	10	4.00e-03	-4.15e-03	-0.17	2.48e-04	4.66e-05	0.0
463	26	6.73e-04	-9.31e-03	-0.17	2.73e-04	2.44e-05	0.0
463	38	5.65e-03	-5.15e-03	-0.18	2.69e-04	6.52e-05	0.0
463	42	6.16e-03	-3.90e-03	-0.18	2.60e-04	6.48e-05	0.0
463	58	8.58e-04	-0.01	-0.18	3.00e-04	2.94e-05	0.0
463	69	3.59e-04	-4.60e-03	-0.16	2.27e-04	1.56e-05	0.0
463	70	2.75e-04	-5.39e-03	-0.17	2.65e-04	1.05e-05	0.0
463	71	3.59e-04	-4.60e-03	-0.16	2.27e-04	1.56e-05	0.0
463	72	3.42e-04	-4.76e-03	-0.17	2.35e-04	1.46e-05	0.0
464	1	1.84e-04	-5.48e-03	-0.20	2.72e-04	7.31e-06	0.0
464	2	-2.14e-06	-6.53e-03	-0.21	3.24e-04	-2.84e-06	0.0
464	5	3.62e-03	-2.06e-03	-0.16	2.15e-04	3.26e-05	0.0
464	6	3.35e-03	-4.52e-03	-0.16	2.35e-04	3.21e-05	0.0
464	26	4.87e-04	-8.68e-03	-0.16	2.46e-04	1.06e-05	0.0
464	37	5.67e-03	-8.08e-04	-0.16	2.19e-04	4.86e-05	0.0
464	38	5.24e-03	-4.72e-03	-0.17	2.51e-04	4.78e-05	0.0
464	58	6.94e-04	-0.01	-0.16	2.67e-04	1.38e-05	0.0
464	69	1.36e-04	-4.21e-03	-0.15	2.09e-04	5.33e-06	0.0
464	70	1.18e-05	-4.91e-03	-0.16	2.44e-04	-1.44e-06	0.0
464	71	1.36e-04	-4.21e-03	-0.15	2.09e-04	5.33e-06	0.0
464	72	1.11e-04	-4.35e-03	-0.15	2.16e-04	3.97e-06	0.0
465	2	-3.17e-04	-5.51e-03	-0.19	2.74e-04	-1.76e-05	0.0
465	6	2.99e-03	-3.83e-03	-0.15	2.00e-04	1.73e-05	0.0
465	8	-3.36e-03	-5.67e-03	-0.14	1.70e-04	-2.73e-05	0.0
465	26	3.49e-04	-7.89e-03	-0.15	2.07e-04	0.0	0.0
465	38	4.80e-03	-4.01e-03	-0.16	2.14e-04	3.02e-05	0.0
465	40	-5.31e-03	-6.90e-03	-0.13	1.67e-04	-4.07e-05	0.0
465	58	5.97e-04	-0.01	-0.15	2.24e-04	1.50e-06	0.0
465	70	-2.26e-04	-4.14e-03	-0.15	2.06e-04	-1.26e-05	0.0
465	72	-1.04e-04	-3.68e-03	-0.14	1.83e-04	-6.19e-06	0.0
466	2	-5.59e-04	-4.21e-03	-0.18	2.10e-04	-2.92e-05	0.0
466	6	2.72e-03	-2.95e-03	-0.14	1.55e-04	6.06e-06	0.0
466	8	-3.37e-03	-4.82e-03	-0.13	1.30e-04	-3.19e-05	0.0
466	26	2.83e-04	-6.94e-03	-0.14	1.60e-04	-9.17e-06	0.0
466	38	4.47e-03	-3.09e-03	-0.15	1.66e-04	1.70e-05	0.0
466	40	-5.21e-03	-6.05e-03	-0.13	1.27e-04	-4.33e-05	0.0
466	58	5.90e-04	-9.42e-03	-0.14	1.74e-04	-7.21e-06	0.0
466	70	-4.10e-04	-3.17e-03	-0.14	1.58e-04	-2.14e-05	0.0
466	72	-2.71e-04	-2.81e-03	-0.14	1.40e-04	-1.43e-05	0.0
467	2	-7.22e-04	-2.73e-03	-0.17	1.36e-04	-3.71e-05	0.0
467	6	2.53e-03	-1.94e-03	-0.13	1.03e-04	-1.58e-06	0.0
467	8	-3.34e-03	-3.87e-03	-0.12	8.41e-05	-3.48e-05	0.0
467	26	2.83e-04	-5.90e-03	-0.13	1.08e-04	-1.45e-05	0.0
467	38	4.23e-03	-2.05e-03	-0.14	1.12e-04	8.01e-06	0.0
467	40	-5.10e-03	-5.10e-03	-0.12	8.18e-05	-4.47e-05	0.0
467	58	6.55e-04	-8.33e-03	-0.13	1.19e-04	-1.25e-05	0.0
467	70	-5.33e-04	-2.05e-03	-0.13	1.02e-04	-2.74e-05	0.0
467	72	-3.85e-04	-1.82e-03	-0.13	9.09e-05	-1.98e-05	0.0
468	2	-8.08e-04	-1.14e-03	-0.17	5.68e-05	-4.13e-05	0.0
468	6	2.41e-03	-8.61e-04	-0.13	4.83e-05	-5.79e-06	0.0
468	8	-3.27e-03	-2.87e-03	-0.12	3.54e-05	-3.60e-05	0.0
468	26	3.44e-04	-4.82e-03	-0.13	5.44e-05	-1.69e-05	0.0
468	38	4.08e-03	-9.46e-04	-0.13	5.50e-05	3.01e-06	0.0
468	40	-4.96e-03	-4.12e-03	-0.12	3.46e-05	-4.50e-05	0.0
468	58	7.86e-04	-7.22e-03	-0.13	6.47e-05	-1.47e-05	0.0
468	70	-5.99e-04	-8.57e-04	-0.13	4.27e-05	-3.06e-05	0.0

468	72	-4.45e-04	-7.61e-04	-0.13	3.80e-05	-2.27e-05	0.0
469	2	-8.20e-04	4.93e-04	-0.17	-2.46e-05	-4.19e-05	0.0
469	13	2.39e-03	4.28e-04	-0.13	-2.59e-05	-6.46e-06	0.0
469	15	-3.24e-03	2.46e-03	-0.12	-1.59e-05	-3.60e-05	0.0
469	21	3.86e-04	4.39e-03	-0.13	-3.14e-05	-1.71e-05	0.0
469	45	4.05e-03	5.01e-04	-0.13	-3.18e-05	2.22e-06	0.0
469	47	-4.91e-03	3.72e-03	-0.12	-1.58e-05	-4.48e-05	0.0
469	53	8.58e-04	6.78e-03	-0.13	-4.05e-05	-1.46e-05	0.0
469	70	-6.08e-04	3.71e-04	-0.13	-1.85e-05	-3.11e-05	0.0
469	72	-4.53e-04	3.29e-04	-0.13	-1.64e-05	-2.32e-05	0.0
470	2	-7.59e-04	2.11e-03	-0.17	-1.05e-04	-3.90e-05	0.0
470	13	2.49e-03	1.52e-03	-0.13	-8.14e-05	-3.44e-06	0.0
470	15	-3.31e-03	3.48e-03	-0.12	-6.52e-05	-3.54e-05	0.0
470	21	3.06e-04	5.47e-03	-0.13	-8.66e-05	-1.56e-05	0.0
470	45	4.17e-03	1.62e-03	-0.14	-8.93e-05	5.85e-06	0.0
470	47	-5.05e-03	4.71e-03	-0.12	-6.36e-05	-4.50e-05	0.0
470	53	7.05e-04	7.89e-03	-0.13	-9.75e-05	-1.35e-05	0.0
470	70	-5.61e-04	1.58e-03	-0.13	-7.90e-05	-2.89e-05	0.0
470	72	-4.11e-04	1.41e-03	-0.13	-7.02e-05	-2.11e-05	0.0
471	2	-6.21e-04	3.64e-03	-0.18	-1.81e-04	-3.25e-05	0.0
471	13	2.65e-03	2.56e-03	-0.14	-1.35e-04	2.93e-06	0.0
471	15	-3.35e-03	4.45e-03	-0.13	-1.12e-04	-3.31e-05	0.0
471	21	2.85e-04	6.53e-03	-0.14	-1.39e-04	-1.13e-05	0.0
471	45	4.38e-03	2.69e-03	-0.14	-1.45e-04	1.33e-05	0.0
471	47	-5.17e-03	5.68e-03	-0.12	-1.10e-04	-4.39e-05	0.0
471	53	6.18e-04	8.99e-03	-0.14	-1.52e-04	-9.33e-06	0.0
471	70	-4.57e-04	2.74e-03	-0.14	-1.36e-04	-2.39e-05	0.0
471	72	-3.15e-04	2.43e-03	-0.13	-1.21e-04	-1.66e-05	0.0
472	2	-4.01e-04	5.02e-03	-0.19	-2.50e-04	-2.21e-05	0.0
472	13	2.89e-03	3.50e-03	-0.15	-1.83e-04	1.29e-05	0.0
472	15	-3.36e-03	5.35e-03	-0.13	-1.55e-04	-2.90e-05	0.0
472	21	3.31e-04	7.53e-03	-0.14	-1.89e-04	-3.94e-06	0.0
472	45	4.68e-03	3.66e-03	-0.15	-1.95e-04	2.50e-05	0.0
472	47	-5.26e-03	6.57e-03	-0.13	-1.52e-04	-4.16e-05	0.0
472	53	6.04e-04	0.01	-0.15	-2.05e-04	-1.76e-06	0.0
472	70	-2.90e-04	3.78e-03	-0.14	-1.88e-04	-1.60e-05	0.0
472	72	-1.63e-04	3.35e-03	-0.14	-1.67e-04	-9.34e-06	0.0
473	2	-9.12e-05	6.16e-03	-0.20	-3.07e-04	-7.84e-06	0.0
473	4	-1.29e-04	4.95e-03	-0.16	-2.46e-04	-9.20e-06	0.0
473	13	3.23e-03	4.27e-03	-0.16	-2.22e-04	2.68e-05	0.0
473	14	3.48e-03	1.85e-03	-0.15	-2.04e-04	2.73e-05	0.0
473	21	4.59e-04	8.39e-03	-0.16	-2.31e-04	6.85e-06	0.0
473	45	5.09e-03	4.46e-03	-0.16	-2.37e-04	4.14e-05	0.0
473	46	5.49e-03	6.05e-04	-0.16	-2.07e-04	4.23e-05	0.0
473	53	6.85e-04	0.01	-0.16	-2.51e-04	9.74e-06	0.0
473	69	7.51e-05	3.98e-03	-0.15	-1.98e-04	1.92e-06	0.0
473	70	-5.58e-05	4.63e-03	-0.15	-2.30e-04	-5.23e-06	0.0
473	71	7.51e-05	3.98e-03	-0.15	-1.98e-04	1.92e-06	0.0
473	72	4.89e-05	4.11e-03	-0.15	-2.04e-04	0.0	0.0
474	1	4.70e-04	5.88e-03	-0.21	-2.90e-04	1.91e-05	0.0
474	2	3.48e-04	7.02e-03	-0.22	-3.46e-04	1.14e-05	0.0
474	13	3.63e-03	4.84e-03	-0.17	-2.49e-04	4.39e-05	0.0
474	17	3.93e-03	4.07e-03	-0.17	-2.44e-04	4.36e-05	0.0
474	21	7.17e-04	9.14e-03	-0.17	-2.65e-04	2.31e-05	0.0
474	45	5.57e-03	5.05e-03	-0.18	-2.64e-04	6.13e-05	0.0
474	49	6.03e-03	3.81e-03	-0.17	-2.56e-04	6.07e-05	0.0
474	53	9.29e-04	0.01	-0.17	-2.91e-04	2.81e-05	0.0
474	69	3.56e-04	4.51e-03	-0.16	-2.23e-04	1.44e-05	0.0
474	70	2.75e-04	5.28e-03	-0.17	-2.60e-04	9.30e-06	0.0
474	71	3.56e-04	4.51e-03	-0.16	-2.23e-04	1.44e-05	0.0
474	72	3.40e-04	4.67e-03	-0.16	-2.30e-04	1.34e-05	0.0
475	1	-6.24e-04	5.75e-03	-0.24	-2.85e-04	-3.18e-05	0.0
475	2	-5.15e-04	6.89e-03	-0.25	-3.41e-04	-2.58e-05	0.0
475	15	-4.35e-03	4.02e-03	-0.19	-2.36e-04	-5.71e-05	0.0
475	31	-5.93e-04	8.98e-03	-0.19	-2.64e-04	-3.52e-05	0.0
475	35	-8.92e-04	8.36e-03	-0.19	-2.65e-04	-3.76e-05	0.0
475	47	-6.64e-03	3.80e-03	-0.20	-2.46e-04	-7.63e-05	0.0
475	63	-6.63e-04	0.01	-0.20	-2.91e-04	-4.17e-05	0.0
475	67	-1.14e-03	0.01	-0.20	-2.92e-04	-4.54e-05	0.0
475	69	-4.75e-04	4.42e-03	-0.18	-2.18e-04	-2.42e-05	0.0
475	70	-4.02e-04	5.17e-03	-0.19	-2.56e-04	-2.02e-05	0.0
475	71	-4.75e-04	4.42e-03	-0.18	-2.18e-04	-2.42e-05	0.0
475	72	-4.61e-04	4.57e-03	-0.18	-2.26e-04	-2.34e-05	0.0
476	2	3.57e-04	7.53e-03	-0.26	-3.71e-04	1.86e-05	0.0
476	17	3.65e-03	6.27e-03	-0.19	-2.43e-04	2.12e-05	0.0
476	31	1.55e-04	8.41e-03	-0.19	-2.73e-04	3.65e-06	0.0

476	35	-1.15e-04	8.10e-03	-0.19	-2.73e-04	2.51e-06	0.0
476	49	5.71e-03	7.18e-03	-0.19	-2.49e-04	2.90e-05	0.0
476	63	1.54e-04	0.01	-0.20	-2.96e-04	1.12e-06	0.0
476	67	-2.79e-04	0.01	-0.20	-2.96e-04	0.0	0.0
476	70	2.61e-04	5.64e-03	-0.20	-2.78e-04	1.36e-05	0.0
476	72	1.78e-04	4.91e-03	-0.19	-2.42e-04	9.23e-06	0.0
477	2	9.26e-05	7.49e-03	-0.26	-3.70e-04	3.27e-06	0.0
477	17	3.39e-03	5.54e-03	-0.19	-2.42e-04	8.50e-06	0.0
477	25	3.85e-04	7.54e-03	-0.19	-2.66e-04	8.85e-06	0.0
477	27	-1.49e-03	7.54e-03	-0.19	-2.66e-04	5.33e-06	0.0
477	49	5.35e-03	6.05e-03	-0.19	-2.48e-04	1.24e-05	0.0
477	57	5.85e-04	9.22e-03	-0.20	-2.86e-04	1.30e-05	0.0
477	59	-2.40e-03	9.22e-03	-0.20	-2.86e-04	7.43e-06	0.0
477	70	6.84e-05	5.61e-03	-0.20	-2.77e-04	2.42e-06	0.0
477	72	5.38e-05	4.87e-03	-0.19	-2.41e-04	1.90e-06	0.0
478	2	-3.17e-04	7.38e-03	-0.26	-3.68e-04	-1.74e-05	0.0
478	20	-3.59e-03	4.48e-03	-0.18	-2.21e-04	-1.92e-05	0.0
478	21	-1.03e-04	8.28e-03	-0.19	-2.71e-04	-2.66e-06	0.0
478	25	1.64e-04	7.97e-03	-0.19	-2.71e-04	-1.62e-06	0.0
478	52	-5.63e-03	4.39e-03	-0.18	-2.15e-04	-2.62e-05	0.0
478	53	-8.36e-05	0.01	-0.20	-2.95e-04	0.0	0.0
478	57	3.44e-04	9.94e-03	-0.20	-2.95e-04	1.78e-06	0.0
478	70	-2.32e-04	5.52e-03	-0.20	-2.76e-04	-1.27e-05	0.0
478	72	-1.56e-04	4.81e-03	-0.19	-2.40e-04	-8.58e-06	0.0
479	1	5.68e-04	5.73e-03	-0.24	-2.84e-04	2.98e-05	0.0
479	2	4.50e-04	6.86e-03	-0.25	-3.40e-04	2.35e-05	0.0
479	17	4.29e-03	3.98e-03	-0.19	-2.35e-04	5.50e-05	0.0
479	21	5.43e-04	8.93e-03	-0.19	-2.63e-04	3.30e-05	0.0
479	25	8.40e-04	8.31e-03	-0.19	-2.64e-04	3.53e-05	0.0
479	49	6.57e-03	3.74e-03	-0.20	-2.45e-04	7.39e-05	0.0
479	53	6.08e-04	0.01	-0.20	-2.90e-04	3.90e-05	0.0
479	57	1.08e-03	0.01	-0.20	-2.91e-04	4.27e-05	0.0
479	69	4.32e-04	4.39e-03	-0.18	-2.18e-04	2.27e-05	0.0
479	70	3.53e-04	5.15e-03	-0.19	-2.56e-04	1.84e-05	0.0
479	71	4.32e-04	4.39e-03	-0.18	-2.18e-04	2.27e-05	0.0
479	72	4.16e-04	4.55e-03	-0.18	-2.26e-04	2.18e-05	0.0
480	2	1.99e-04	7.47e-03	-0.26	-3.68e-04	1.01e-05	0.0
480	17	3.45e-03	5.54e-03	-0.19	-2.40e-04	1.33e-05	0.0
480	33	1.76e-03	7.53e-03	-0.19	-2.65e-04	1.04e-05	0.0
480	35	-1.15e-04	7.52e-03	-0.19	-2.66e-04	6.51e-06	0.0
480	49	5.43e-03	6.06e-03	-0.19	-2.46e-04	1.76e-05	0.0
480	65	2.73e-03	9.22e-03	-0.20	-2.86e-04	1.30e-05	0.0
480	67	-2.53e-04	9.21e-03	-0.20	-2.86e-04	6.81e-06	0.0
480	70	1.48e-04	5.59e-03	-0.20	-2.75e-04	7.53e-06	0.0
480	72	1.22e-04	4.85e-03	-0.19	-2.39e-04	6.28e-06	0.0
481	2	7.01e-04	7.31e-03	-0.26	-3.61e-04	3.64e-05	0.0
481	17	3.62e-03	5.54e-03	-0.18	-2.35e-04	2.48e-05	0.0
481	31	4.87e-04	7.55e-03	-0.19	-2.61e-04	2.53e-05	0.0
481	35	2.41e-04	7.49e-03	-0.19	-2.61e-04	2.49e-05	0.0
481	49	5.50e-03	6.10e-03	-0.19	-2.40e-04	2.59e-05	0.0
481	63	5.18e-04	9.29e-03	-0.20	-2.81e-04	2.68e-05	0.0
481	67	1.24e-04	9.21e-03	-0.20	-2.82e-04	2.63e-05	0.0
481	70	5.25e-04	5.47e-03	-0.20	-2.70e-04	2.73e-05	0.0
481	72	4.54e-04	4.76e-03	-0.19	-2.35e-04	2.35e-05	0.0
482	2	5.34e-04	7.06e-03	-0.26	-3.50e-04	2.78e-05	0.0
482	17	3.43e-03	5.47e-03	-0.18	-2.28e-04	1.57e-05	0.0
482	31	3.69e-04	7.46e-03	-0.19	-2.52e-04	2.06e-05	0.0
482	35	1.30e-04	7.36e-03	-0.19	-2.52e-04	2.08e-05	0.0
482	49	5.27e-03	6.08e-03	-0.18	-2.33e-04	1.50e-05	0.0
482	63	3.95e-04	9.24e-03	-0.19	-2.71e-04	2.28e-05	0.0
482	67	1.32e-05	9.09e-03	-0.19	-2.72e-04	2.29e-05	0.0
482	70	4.00e-04	5.28e-03	-0.20	-2.62e-04	2.08e-05	0.0
482	72	3.41e-04	4.60e-03	-0.18	-2.28e-04	1.77e-05	0.0
483	2	6.82e-05	6.94e-03	-0.26	-3.45e-04	3.66e-06	0.0
483	17	3.11e-03	5.50e-03	-0.18	-2.25e-04	-2.61e-06	0.0
483	31	3.32e-05	7.49e-03	-0.19	-2.49e-04	-2.54e-06	0.0
483	35	-2.04e-04	7.35e-03	-0.19	-2.49e-04	-2.35e-06	0.0
483	49	4.94e-03	6.18e-03	-0.18	-2.31e-04	-4.81e-06	0.0
483	63	3.90e-05	9.34e-03	-0.19	-2.68e-04	-4.80e-06	0.0
483	67	-3.41e-04	9.11e-03	-0.19	-2.68e-04	-4.52e-06	0.0
483	70	4.98e-05	5.20e-03	-0.20	-2.58e-04	2.67e-06	0.0
483	72	2.95e-05	4.53e-03	-0.18	-2.25e-04	1.60e-06	0.0
484	2	-4.20e-04	7.03e-03	-0.26	-3.48e-04	-2.17e-05	0.0
484	15	-3.41e-03	4.80e-03	-0.18	-2.26e-04	-1.24e-05	0.0
484	29	9.59e-04	7.49e-03	-0.19	-2.53e-04	-2.14e-05	0.0
484	31	-3.23e-04	7.68e-03	-0.19	-2.52e-04	-2.10e-05	0.0

484	47	-5.26e-03	5.04e-03	-0.18	-2.31e-04	-1.11e-05	0.0
484	61	1.69e-03	9.31e-03	-0.20	-2.72e-04	-2.50e-05	0.0
484	63	-3.40e-04	9.61e-03	-0.20	-2.72e-04	-2.45e-05	0.0
484	70	-3.17e-04	5.26e-03	-0.20	-2.61e-04	-1.64e-05	0.0
484	72	-2.98e-04	4.58e-03	-0.18	-2.27e-04	-1.54e-05	0.0
485	2	-6.53e-04	7.26e-03	-0.26	-3.59e-04	-3.43e-05	0.0
485	15	-3.67e-03	4.86e-03	-0.18	-2.33e-04	-2.86e-05	0.0
485	31	-5.16e-04	8.01e-03	-0.19	-2.62e-04	-3.15e-05	0.0
485	33	1.05e-03	8.01e-03	-0.19	-2.63e-04	-2.96e-05	0.0
485	47	-5.57e-03	5.04e-03	-0.19	-2.37e-04	-3.13e-05	0.0
485	63	-5.52e-04	0.01	-0.20	-2.84e-04	-3.60e-05	0.0
485	65	1.94e-03	0.01	-0.20	-2.85e-04	-3.31e-05	0.0
485	70	-4.94e-04	5.44e-03	-0.20	-2.69e-04	-2.59e-05	0.0
485	72	-4.61e-04	4.73e-03	-0.19	-2.34e-04	-2.41e-05	0.0
486	1	-1.72e-04	5.95e-03	-0.24	-2.96e-04	-1.22e-05	0.0
486	2	-1.13e-04	7.28e-03	-0.26	-3.62e-04	-9.82e-06	0.0
486	15	-3.55e-03	4.82e-03	-0.19	-2.37e-04	-2.24e-05	0.0
486	31	-1.83e-04	8.18e-03	-0.19	-2.67e-04	-1.59e-05	0.0
486	35	-4.48e-04	7.91e-03	-0.19	-2.67e-04	-1.69e-05	0.0
486	47	-5.58e-03	4.98e-03	-0.19	-2.43e-04	-3.01e-05	0.0
486	63	-2.14e-04	0.01	-0.20	-2.91e-04	-1.98e-05	0.0
486	67	-6.39e-04	9.88e-03	-0.20	-2.91e-04	-2.14e-05	0.0
486	69	-1.30e-04	4.56e-03	-0.18	-2.27e-04	-9.22e-06	0.0
486	70	-9.05e-05	5.45e-03	-0.20	-2.71e-04	-7.66e-06	0.0
486	71	-1.30e-04	4.56e-03	-0.18	-2.27e-04	-9.22e-06	0.0
486	72	-1.22e-04	4.74e-03	-0.19	-2.36e-04	-8.91e-06	0.0
487	2	5.53e-04	7.43e-03	-0.26	-3.66e-04	3.15e-05	0.0
487	17	3.78e-03	6.24e-03	-0.19	-2.39e-04	3.10e-05	0.0
487	31	2.95e-04	8.38e-03	-0.19	-2.71e-04	1.38e-05	0.0
487	35	2.41e-05	8.06e-03	-0.19	-2.71e-04	1.26e-05	0.0
487	49	5.85e-03	7.17e-03	-0.19	-2.45e-04	3.98e-05	0.0
487	63	3.07e-04	0.01	-0.20	-2.95e-04	1.25e-05	0.0
487	67	-1.26e-04	0.01	-0.20	-2.95e-04	1.05e-05	0.0
487	70	4.07e-04	5.56e-03	-0.20	-2.74e-04	2.32e-05	0.0
487	72	3.01e-04	4.84e-03	-0.19	-2.39e-04	1.73e-05	0.0
488	2	1.34e-03	7.22e-03	-0.26	-3.56e-04	7.05e-05	0.0
488	17	4.17e-03	6.20e-03	-0.18	-2.32e-04	5.23e-05	0.0
488	31	7.89e-04	8.36e-03	-0.19	-2.64e-04	3.84e-05	0.0
488	35	5.29e-04	8.00e-03	-0.19	-2.64e-04	3.75e-05	0.0
488	49	6.19e-03	7.17e-03	-0.18	-2.37e-04	5.99e-05	0.0
488	63	8.17e-04	0.01	-0.20	-2.87e-04	3.78e-05	0.0
488	67	4.00e-04	0.01	-0.20	-2.88e-04	3.64e-05	0.0
488	70	9.96e-04	5.41e-03	-0.20	-2.67e-04	5.23e-05	0.0
488	72	7.94e-04	4.71e-03	-0.18	-2.33e-04	4.17e-05	0.0
489	2	1.25e-03	6.81e-03	-0.25	-3.38e-04	6.54e-05	0.0
489	17	4.08e-03	6.03e-03	-0.18	-2.20e-04	4.77e-05	0.0
489	31	6.84e-04	8.18e-03	-0.19	-2.50e-04	3.34e-05	0.0
489	35	4.27e-04	7.78e-03	-0.19	-2.51e-04	3.27e-05	0.0
489	49	6.09e-03	7.04e-03	-0.18	-2.23e-04	5.51e-05	0.0
489	63	6.99e-04	0.01	-0.20	-2.72e-04	3.23e-05	0.0
489	67	2.86e-04	9.82e-03	-0.20	-2.73e-04	3.11e-05	0.0
489	70	9.23e-04	5.11e-03	-0.19	-2.53e-04	4.83e-05	0.0
489	72	7.14e-04	4.46e-03	-0.18	-2.21e-04	3.74e-05	0.0
490	2	7.56e-04	6.54e-03	-0.25	-3.25e-04	4.00e-05	0.0
490	17	3.78e-03	5.96e-03	-0.18	-2.12e-04	3.16e-05	0.0
490	31	3.03e-04	8.13e-03	-0.19	-2.43e-04	1.17e-05	0.0
490	35	4.36e-05	7.68e-03	-0.19	-2.43e-04	1.09e-05	0.0
490	49	5.81e-03	7.03e-03	-0.18	-2.15e-04	3.98e-05	0.0
490	63	2.87e-04	0.01	-0.19	-2.64e-04	8.50e-06	0.0
490	67	-1.29e-04	9.76e-03	-0.19	-2.65e-04	7.18e-06	0.0
490	70	5.51e-04	4.90e-03	-0.19	-2.44e-04	2.92e-05	0.0
490	72	3.75e-04	4.30e-03	-0.18	-2.14e-04	1.99e-05	0.0
491	2	1.29e-04	6.46e-03	-0.25	-3.21e-04	7.65e-06	0.0
491	4	1.65e-04	5.20e-03	-0.20	-2.58e-04	9.34e-06	0.0
491	15	-3.61e-03	3.90e-03	-0.18	-2.17e-04	-2.29e-05	0.0
491	31	-1.63e-04	8.24e-03	-0.19	-2.42e-04	-1.25e-05	0.0
491	35	-4.29e-04	7.74e-03	-0.19	-2.43e-04	-1.36e-05	0.0
491	47	-5.69e-03	3.78e-03	-0.19	-2.24e-04	-3.42e-05	0.0
491	63	-2.12e-04	0.01	-0.19	-2.64e-04	-1.76e-05	0.0
491	67	-6.37e-04	9.88e-03	-0.19	-2.65e-04	-1.93e-05	0.0
491	69	-8.06e-05	4.12e-03	-0.18	-2.05e-04	-3.55e-06	0.0
491	70	7.92e-05	4.85e-03	-0.19	-2.41e-04	4.83e-06	0.0
491	71	-8.06e-05	4.12e-03	-0.18	-2.05e-04	-3.55e-06	0.0
491	72	-4.87e-05	4.26e-03	-0.18	-2.12e-04	-1.87e-06	0.0
492	1	-5.70e-04	5.49e-03	-0.23	-2.72e-04	-2.87e-05	0.0
492	2	-4.17e-04	6.59e-03	-0.25	-3.26e-04	-2.06e-05	0.0

492	15	-4.08e-03	3.93e-03	-0.19	-2.22e-04	-4.64e-05	0.0
492	31	-5.62e-04	8.52e-03	-0.19	-2.50e-04	-3.34e-05	0.0
492	35	-8.37e-04	7.98e-03	-0.19	-2.50e-04	-3.49e-05	0.0
492	47	-6.23e-03	3.77e-03	-0.19	-2.30e-04	-6.08e-05	0.0
492	63	-6.39e-04	0.01	-0.20	-2.74e-04	-4.03e-05	0.0
492	67	-1.08e-03	0.01	-0.20	-2.75e-04	-4.26e-05	0.0
492	69	-4.33e-04	4.21e-03	-0.18	-2.09e-04	-2.18e-05	0.0
492	70	-3.31e-04	4.95e-03	-0.19	-2.45e-04	-1.64e-05	0.0
492	71	-4.33e-04	4.21e-03	-0.18	-2.09e-04	-2.18e-05	0.0
492	72	-4.13e-04	4.36e-03	-0.18	-2.16e-04	-2.07e-05	0.0
493	1	7.40e-04	5.60e-03	-0.23	-2.77e-04	3.63e-05	0.0
493	2	6.35e-04	6.73e-03	-0.25	-3.33e-04	3.03e-05	0.0
493	17	4.35e-03	4.01e-03	-0.19	-2.29e-04	5.77e-05	0.0
493	21	7.19e-04	8.70e-03	-0.19	-2.56e-04	3.94e-05	0.0
493	25	1.01e-03	8.13e-03	-0.19	-2.57e-04	4.15e-05	0.0
493	49	6.59e-03	3.84e-03	-0.19	-2.39e-04	7.52e-05	0.0
493	53	8.10e-04	0.01	-0.20	-2.82e-04	4.63e-05	0.0
493	57	1.27e-03	0.01	-0.20	-2.83e-04	4.95e-05	0.0
493	69	5.64e-04	4.30e-03	-0.18	-2.13e-04	2.77e-05	0.0
493	70	4.94e-04	5.05e-03	-0.19	-2.50e-04	2.36e-05	0.0
493	71	5.64e-04	4.30e-03	-0.18	-2.13e-04	2.77e-05	0.0
493	72	5.50e-04	4.45e-03	-0.18	-2.20e-04	2.69e-05	0.0
494	1	4.21e-04	5.45e-03	-0.23	-2.70e-04	2.02e-05	0.0
494	2	2.42e-04	6.55e-03	-0.25	-3.25e-04	1.05e-05	0.0
494	17	3.92e-03	3.92e-03	-0.18	-2.21e-04	3.77e-05	0.0
494	21	4.45e-04	8.41e-03	-0.19	-2.47e-04	2.57e-05	0.0
494	25	7.17e-04	7.88e-03	-0.19	-2.48e-04	2.71e-05	0.0
494	49	6.05e-03	3.77e-03	-0.19	-2.28e-04	5.08e-05	0.0
494	53	5.20e-04	0.01	-0.20	-2.71e-04	3.18e-05	0.0
494	57	9.54e-04	0.01	-0.20	-2.72e-04	3.39e-05	0.0
494	69	3.19e-04	4.18e-03	-0.18	-2.07e-04	1.53e-05	0.0
494	70	1.99e-04	4.92e-03	-0.19	-2.44e-04	8.82e-06	0.0
494	71	3.19e-04	4.18e-03	-0.18	-2.07e-04	1.53e-05	0.0
494	72	2.95e-04	4.33e-03	-0.18	-2.15e-04	1.40e-05	0.0
495	2	-3.51e-04	6.51e-03	-0.25	-3.23e-04	-2.01e-05	0.0
495	20	-3.56e-03	4.33e-03	-0.17	-1.93e-04	-2.26e-05	0.0
495	21	1.04e-05	8.20e-03	-0.19	-2.43e-04	2.95e-06	0.0
495	25	2.74e-04	7.72e-03	-0.19	-2.43e-04	3.92e-06	0.0
495	52	-5.63e-03	4.44e-03	-0.17	-1.86e-04	-3.30e-05	0.0
495	53	5.56e-05	0.01	-0.19	-2.65e-04	7.22e-06	0.0
495	57	4.78e-04	9.83e-03	-0.19	-2.66e-04	8.77e-06	0.0
495	70	-2.46e-04	4.88e-03	-0.19	-2.42e-04	-1.42e-05	0.0
495	72	-1.03e-04	4.28e-03	-0.18	-2.13e-04	-6.55e-06	0.0
496	2	-9.36e-04	6.66e-03	-0.25	-3.30e-04	-5.03e-05	0.0
496	15	-3.88e-03	6.01e-03	-0.18	-2.15e-04	-3.78e-05	0.0
496	21	-4.28e-04	8.16e-03	-0.19	-2.46e-04	-1.95e-05	0.0
496	25	-1.69e-04	7.72e-03	-0.19	-2.47e-04	-1.87e-05	0.0
496	47	-5.91e-03	7.05e-03	-0.18	-2.19e-04	-4.56e-05	0.0
496	53	-4.14e-04	0.01	-0.19	-2.68e-04	-1.69e-05	0.0
496	57	1.68e-06	9.79e-03	-0.20	-2.69e-04	-1.56e-05	0.0
496	70	-6.88e-04	5.00e-03	-0.19	-2.48e-04	-3.70e-05	0.0
496	72	-5.01e-04	4.37e-03	-0.18	-2.17e-04	-2.71e-05	0.0
497	2	-1.28e-03	6.98e-03	-0.26	-3.45e-04	-6.80e-05	0.0
497	15	-4.10e-03	6.11e-03	-0.18	-2.25e-04	-4.97e-05	0.0
497	21	-7.09e-04	8.27e-03	-0.19	-2.56e-04	-3.59e-05	0.0
497	25	-4.50e-04	7.87e-03	-0.19	-2.57e-04	-3.51e-05	0.0
497	47	-6.11e-03	7.12e-03	-0.18	-2.29e-04	-5.71e-05	0.0
497	53	-7.19e-04	0.01	-0.20	-2.79e-04	-3.50e-05	0.0
497	57	-3.04e-04	9.92e-03	-0.20	-2.79e-04	-3.37e-05	0.0
497	70	-9.48e-04	5.23e-03	-0.19	-2.59e-04	-5.04e-05	0.0
497	72	-7.44e-04	4.57e-03	-0.18	-2.26e-04	-3.96e-05	0.0
498	2	-9.68e-04	7.10e-03	-0.26	-3.54e-04	-5.34e-05	0.0
498	15	-3.98e-03	6.12e-03	-0.18	-2.32e-04	-4.33e-05	0.0
498	21	-5.38e-04	8.24e-03	-0.19	-2.63e-04	-2.75e-05	0.0
498	25	-2.72e-04	7.89e-03	-0.19	-2.63e-04	-2.64e-05	0.0
498	47	-6.02e-03	7.09e-03	-0.18	-2.37e-04	-5.15e-05	0.0
498	53	-5.46e-04	0.01	-0.20	-2.87e-04	-2.62e-05	0.0
498	57	-1.21e-04	9.91e-03	-0.20	-2.87e-04	-2.45e-05	0.0
498	70	-7.17e-04	5.32e-03	-0.20	-2.65e-04	-3.96e-05	0.0
498	72	-5.63e-04	4.63e-03	-0.19	-2.31e-04	-3.12e-05	0.0
499	1	-7.48e-04	5.66e-03	-0.23	-2.79e-04	-3.77e-05	0.0
499	2	-6.54e-04	6.79e-03	-0.25	-3.35e-04	-3.22e-05	0.0
499	15	-4.42e-03	4.02e-03	-0.19	-2.31e-04	-6.13e-05	0.0
499	31	-7.20e-04	8.83e-03	-0.19	-2.59e-04	-4.10e-05	0.0
499	35	-1.01e-03	8.24e-03	-0.19	-2.60e-04	-4.33e-05	0.0
499	47	-6.69e-03	3.84e-03	-0.19	-2.41e-04	-8.04e-05	0.0

499	63	-8.08e-04	0.01	-0.20	-2.85e-04	-4.82e-05	0.0
499	67	-1.28e-03	0.01	-0.20	-2.87e-04	-5.18e-05	0.0
499	69	-5.71e-04	4.34e-03	-0.18	-2.15e-04	-2.87e-05	0.0
499	70	-5.08e-04	5.10e-03	-0.19	-2.52e-04	-2.51e-05	0.0
499	71	-5.71e-04	4.34e-03	-0.18	-2.15e-04	-2.87e-05	0.0
499	72	-5.58e-04	4.49e-03	-0.18	-2.22e-04	-2.80e-05	0.0
500	2	4.09e-04	7.14e-03	-0.26	-3.57e-04	2.24e-05	0.0
500	17	3.66e-03	4.78e-03	-0.19	-2.35e-04	2.69e-05	0.0
500	21	3.95e-04	8.03e-03	-0.19	-2.63e-04	2.39e-05	0.0
500	25	6.53e-04	7.77e-03	-0.19	-2.63e-04	2.47e-05	0.0
500	49	5.64e-03	4.95e-03	-0.19	-2.41e-04	3.28e-05	0.0
500	53	4.46e-04	0.01	-0.20	-2.86e-04	2.81e-05	0.0
500	57	8.59e-04	9.71e-03	-0.20	-2.86e-04	2.93e-05	0.0
500	70	3.12e-04	5.35e-03	-0.20	-2.67e-04	1.71e-05	0.0
500	72	3.08e-04	4.65e-03	-0.19	-2.33e-04	1.69e-05	0.0
501	2	5.72e-04	7.15e-03	-0.26	-3.54e-04	2.95e-05	0.0
501	17	3.58e-03	4.82e-03	-0.18	-2.29e-04	2.39e-05	0.0
501	21	4.62e-04	7.87e-03	-0.19	-2.58e-04	2.72e-05	0.0
501	27	-1.09e-03	7.87e-03	-0.19	-2.58e-04	2.62e-05	0.0
501	49	5.46e-03	5.03e-03	-0.18	-2.34e-04	2.57e-05	0.0
501	53	5.00e-04	9.87e-03	-0.20	-2.79e-04	3.11e-05	0.0
501	59	-1.96e-03	9.87e-03	-0.20	-2.79e-04	2.96e-05	0.0
501	70	4.32e-04	5.35e-03	-0.20	-2.65e-04	2.23e-05	0.0
501	72	4.04e-04	4.66e-03	-0.18	-2.31e-04	2.09e-05	0.0
502	2	2.11e-04	7.00e-03	-0.26	-3.47e-04	1.09e-05	0.0
502	17	3.27e-03	4.83e-03	-0.18	-2.27e-04	4.88e-06	0.0
502	21	1.86e-04	7.62e-03	-0.19	-2.51e-04	1.29e-05	0.0
502	25	4.25e-04	7.45e-03	-0.19	-2.52e-04	1.27e-05	0.0
502	49	5.11e-03	5.09e-03	-0.18	-2.32e-04	3.10e-06	0.0
502	53	2.02e-04	9.53e-03	-0.19	-2.71e-04	1.56e-05	0.0
502	57	5.85e-04	9.26e-03	-0.20	-2.71e-04	1.54e-05	0.0
502	70	1.60e-04	5.24e-03	-0.20	-2.60e-04	8.29e-06	0.0
502	72	1.59e-04	4.56e-03	-0.18	-2.26e-04	8.22e-06	0.0
503	2	-2.81e-04	7.01e-03	-0.26	-3.47e-04	-1.47e-05	0.0
503	15	-3.26e-03	5.51e-03	-0.18	-2.27e-04	-5.05e-06	0.0
503	21	-1.67e-04	7.51e-03	-0.19	-2.51e-04	-5.37e-06	0.0
503	25	7.16e-05	7.39e-03	-0.19	-2.52e-04	-5.50e-06	0.0
503	47	-5.09e-03	6.16e-03	-0.18	-2.32e-04	-3.17e-06	0.0
503	53	-1.71e-04	9.35e-03	-0.19	-2.71e-04	-3.60e-06	0.0
503	57	2.11e-04	9.15e-03	-0.19	-2.71e-04	-3.80e-06	0.0
503	70	-2.10e-04	5.25e-03	-0.20	-2.60e-04	-1.10e-05	0.0
503	72	-1.71e-04	4.57e-03	-0.18	-2.26e-04	-8.93e-06	0.0
504	2	-6.24e-04	7.20e-03	-0.26	-3.56e-04	-3.30e-05	0.0
504	15	-3.53e-03	5.53e-03	-0.18	-2.32e-04	-2.02e-05	0.0
504	21	-4.11e-04	7.55e-03	-0.19	-2.58e-04	-2.35e-05	0.0
504	25	-1.68e-04	7.47e-03	-0.19	-2.58e-04	-2.35e-05	0.0
504	47	-5.38e-03	6.14e-03	-0.19	-2.37e-04	-2.03e-05	0.0
504	53	-4.26e-04	9.34e-03	-0.20	-2.78e-04	-2.53e-05	0.0
504	57	-3.81e-05	9.22e-03	-0.20	-2.78e-04	-2.52e-05	0.0
504	70	-4.68e-04	5.39e-03	-0.20	-2.66e-04	-2.48e-05	0.0
504	72	-4.02e-04	4.69e-03	-0.19	-2.32e-04	-2.12e-05	0.0
505	2	-3.76e-04	7.26e-03	-0.26	-3.60e-04	-2.28e-05	0.0
505	15	-3.51e-03	5.51e-03	-0.19	-2.37e-04	-1.83e-05	0.0
505	25	4.29e-05	7.45e-03	-0.19	-2.61e-04	-9.45e-06	0.0
505	27	-1.80e-03	7.50e-03	-0.19	-2.61e-04	-1.25e-05	0.0
505	47	-5.44e-03	6.09e-03	-0.19	-2.43e-04	-2.06e-05	0.0
505	57	2.10e-04	9.16e-03	-0.20	-2.82e-04	-6.62e-06	0.0
505	59	-2.73e-03	9.25e-03	-0.20	-2.82e-04	-1.14e-05	0.0
505	70	-2.82e-04	5.43e-03	-0.20	-2.70e-04	-1.71e-05	0.0
505	72	-2.45e-04	4.72e-03	-0.19	-2.34e-04	-1.49e-05	0.0
506	1	-5.72e-04	5.77e-03	-0.24	-2.86e-04	-2.83e-05	0.0
506	2	-4.47e-04	6.91e-03	-0.25	-3.43e-04	-2.16e-05	0.0
506	15	-4.32e-03	3.93e-03	-0.19	-2.39e-04	-5.57e-05	0.0
506	31	-5.45e-04	9.16e-03	-0.19	-2.68e-04	-3.29e-05	0.0
506	35	-8.44e-04	8.49e-03	-0.20	-2.69e-04	-3.53e-05	0.0
506	47	-6.61e-03	3.65e-03	-0.20	-2.50e-04	-7.57e-05	0.0
506	63	-6.09e-04	0.01	-0.20	-2.96e-04	-3.95e-05	0.0
506	67	-1.09e-03	0.01	-0.20	-2.97e-04	-4.35e-05	0.0
506	69	-4.35e-04	4.43e-03	-0.18	-2.20e-04	-2.15e-05	0.0
506	70	-3.52e-04	5.19e-03	-0.19	-2.57e-04	-1.70e-05	0.0
506	71	-4.35e-04	4.43e-03	-0.18	-2.20e-04	-2.15e-05	0.0
506	72	-4.18e-04	4.58e-03	-0.18	-2.27e-04	-2.06e-05	0.0
507	1	5.21e-04	5.79e-03	-0.24	-2.87e-04	2.70e-05	0.0
507	2	3.88e-04	6.94e-03	-0.25	-3.43e-04	2.00e-05	0.0
507	17	4.26e-03	3.94e-03	-0.19	-2.39e-04	5.42e-05	0.0
507	21	4.99e-04	9.16e-03	-0.19	-2.67e-04	3.13e-05	0.0

507	25	7.97e-04	8.49e-03	-0.20	-2.68e-04	3.37e-05	0.0
507	49	6.55e-03	3.65e-03	-0.20	-2.49e-04	7.40e-05	0.0
507	53	5.59e-04	0.01	-0.20	-2.95e-04	3.76e-05	0.0
507	57	1.04e-03	0.01	-0.20	-2.97e-04	4.15e-05	0.0
507	69	3.96e-04	4.45e-03	-0.18	-2.20e-04	2.05e-05	0.0
507	70	3.07e-04	5.21e-03	-0.19	-2.58e-04	1.58e-05	0.0
507	71	3.96e-04	4.45e-03	-0.18	-2.20e-04	2.05e-05	0.0
507	72	3.78e-04	4.60e-03	-0.18	-2.28e-04	1.96e-05	0.0
508	2	7.18e-05	-6.95e-03	-0.26	3.46e-04	3.63e-06	0.0
508	10	3.12e-03	-5.51e-03	-0.18	2.26e-04	-2.64e-06	0.0
508	32	-2.05e-04	-7.36e-03	-0.19	2.50e-04	-2.37e-06	0.0
508	36	3.09e-05	-7.50e-03	-0.19	2.50e-04	-2.55e-06	0.0
508	42	4.95e-03	-6.18e-03	-0.18	2.31e-04	-4.87e-06	0.0
508	64	-3.44e-04	-9.12e-03	-0.19	2.69e-04	-4.54e-06	0.0
508	68	3.37e-05	-9.35e-03	-0.19	2.69e-04	-4.81e-06	0.0
508	70	5.25e-05	-5.21e-03	-0.20	2.59e-04	2.65e-06	0.0
508	72	3.19e-05	-4.53e-03	-0.18	2.25e-04	1.58e-06	0.0
509	2	5.35e-04	-7.07e-03	-0.26	3.51e-04	2.77e-05	0.0
509	10	3.44e-03	-5.47e-03	-0.18	2.28e-04	1.57e-05	0.0
509	32	1.26e-04	-7.37e-03	-0.19	2.53e-04	2.08e-05	0.0
509	36	3.63e-04	-7.46e-03	-0.19	2.53e-04	2.07e-05	0.0
509	42	5.28e-03	-6.08e-03	-0.19	2.33e-04	1.50e-05	0.0
509	64	6.10e-06	-9.10e-03	-0.20	2.72e-04	2.30e-05	0.0
509	68	3.86e-04	-9.25e-03	-0.19	2.72e-04	2.28e-05	0.0
509	70	4.01e-04	-5.29e-03	-0.20	2.63e-04	2.08e-05	0.0
509	72	3.41e-04	-4.60e-03	-0.18	2.29e-04	1.77e-05	0.0
510	2	-4.12e-04	-7.04e-03	-0.26	3.49e-04	-2.17e-05	0.0
510	8	-3.42e-03	-4.80e-03	-0.18	2.27e-04	-1.25e-05	0.0
510	30	1.20e-03	-7.69e-03	-0.19	2.53e-04	-2.15e-05	0.0
510	40	-5.26e-03	-5.04e-03	-0.18	2.31e-04	-1.13e-05	0.0
510	62	2.08e-03	-9.62e-03	-0.20	2.73e-04	-2.52e-05	0.0
510	70	-3.12e-04	-5.27e-03	-0.20	2.62e-04	-1.64e-05	0.0
510	72	-2.93e-04	-4.59e-03	-0.18	2.28e-04	-1.54e-05	0.0
511	2	-6.42e-04	-7.27e-03	-0.26	3.60e-04	-3.41e-05	0.0
511	8	-3.67e-03	-4.86e-03	-0.18	2.33e-04	-2.85e-05	0.0
511	30	1.06e-03	-8.02e-03	-0.19	2.63e-04	-2.94e-05	0.0
511	36	-5.13e-04	-8.02e-03	-0.19	2.63e-04	-3.14e-05	0.0
511	40	-5.57e-03	-5.04e-03	-0.19	2.38e-04	-3.13e-05	0.0
511	62	1.95e-03	-0.01	-0.20	2.85e-04	-3.29e-05	0.0
511	68	-5.52e-04	-0.01	-0.20	2.84e-04	-3.59e-05	0.0
511	70	-4.86e-04	-5.45e-03	-0.20	2.69e-04	-2.58e-05	0.0
511	72	-4.54e-04	-4.74e-03	-0.19	2.35e-04	-2.41e-05	0.0
512	1	-1.57e-04	-5.94e-03	-0.24	2.96e-04	-1.17e-05	0.0
512	2	-9.34e-05	-7.27e-03	-0.26	3.62e-04	-9.19e-06	0.0
512	8	-3.54e-03	-4.81e-03	-0.19	2.37e-04	-2.01e-05	0.0
512	32	-4.38e-04	-7.90e-03	-0.19	2.67e-04	-1.66e-05	0.0
512	36	-1.75e-04	-8.17e-03	-0.19	2.67e-04	-1.55e-05	0.0
512	40	-5.56e-03	-4.97e-03	-0.19	2.43e-04	-2.68e-05	0.0
512	64	-6.28e-04	-9.87e-03	-0.20	2.91e-04	-2.11e-05	0.0
512	68	-2.08e-04	-0.01	-0.20	2.91e-04	-1.94e-05	0.0
512	69	-1.18e-04	-4.56e-03	-0.18	2.27e-04	-8.86e-06	0.0
512	70	-7.59e-05	-5.45e-03	-0.20	2.71e-04	-7.19e-06	0.0
512	71	-1.18e-04	-4.56e-03	-0.18	2.27e-04	-8.86e-06	0.0
512	72	-1.10e-04	-4.74e-03	-0.19	2.36e-04	-8.52e-06	0.0
513	2	3.69e-04	-7.53e-03	-0.26	3.72e-04	1.89e-05	0.0
513	10	3.65e-03	-6.27e-03	-0.19	2.43e-04	2.12e-05	0.0
513	32	-1.09e-04	-8.09e-03	-0.19	2.73e-04	2.57e-06	0.0
513	36	1.59e-04	-8.40e-03	-0.19	2.73e-04	3.67e-06	0.0
513	42	5.71e-03	-7.18e-03	-0.19	2.49e-04	2.88e-05	0.0
513	64	-2.72e-04	-0.01	-0.20	2.96e-04	0.0	0.0
513	68	1.56e-04	-0.01	-0.20	2.96e-04	1.11e-06	0.0
513	70	2.70e-04	-5.64e-03	-0.20	2.78e-04	1.38e-05	0.0
513	72	1.85e-04	-4.90e-03	-0.19	2.42e-04	9.39e-06	0.0
514	2	5.58e-04	-7.42e-03	-0.26	3.66e-04	3.14e-05	0.0
514	10	3.78e-03	-6.23e-03	-0.19	2.39e-04	3.10e-05	0.0
514	32	2.63e-05	-8.06e-03	-0.19	2.71e-04	1.27e-05	0.0
514	36	2.94e-04	-8.38e-03	-0.19	2.71e-04	1.39e-05	0.0
514	42	5.84e-03	-7.16e-03	-0.19	2.45e-04	3.98e-05	0.0
514	64	-1.24e-04	-0.01	-0.20	2.95e-04	1.06e-05	0.0
514	68	3.05e-04	-0.01	-0.20	2.95e-04	1.26e-05	0.0
514	70	4.11e-04	-5.56e-03	-0.20	2.74e-04	2.31e-05	0.0
514	72	3.04e-04	-4.83e-03	-0.19	2.39e-04	1.73e-05	0.0
515	2	1.34e-03	-7.22e-03	-0.26	3.57e-04	7.03e-05	0.0
515	10	4.17e-03	-6.20e-03	-0.18	2.32e-04	5.24e-05	0.0
515	32	5.20e-04	-8.01e-03	-0.19	2.65e-04	3.75e-05	0.0
515	36	7.79e-04	-8.37e-03	-0.19	2.64e-04	3.84e-05	0.0

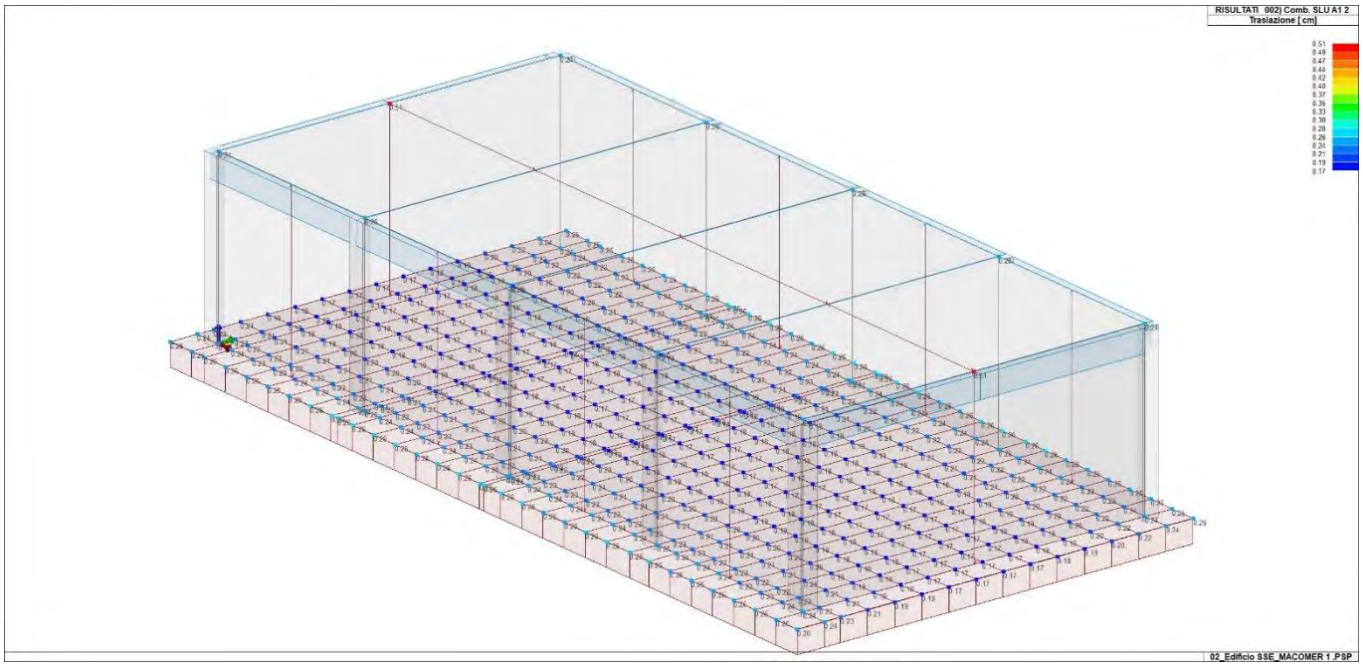
515	42	6.20e-03	-7.17e-03	-0.18	2.37e-04	6.01e-05	0.0
515	64	3.86e-04	-0.01	-0.20	2.88e-04	3.62e-05	0.0
515	68	8.00e-04	-0.01	-0.20	2.87e-04	3.77e-05	0.0
515	70	9.95e-04	-5.41e-03	-0.20	2.67e-04	5.22e-05	0.0
515	72	7.93e-04	-4.72e-03	-0.18	2.33e-04	4.16e-05	0.0
516	2	1.25e-03	-6.82e-03	-0.25	3.39e-04	6.53e-05	0.0
516	10	4.08e-03	-6.04e-03	-0.18	2.20e-04	4.65e-05	0.0
516	32	4.18e-04	-7.79e-03	-0.19	2.52e-04	2.89e-05	0.0
516	36	6.75e-04	-8.19e-03	-0.19	2.51e-04	2.97e-05	0.0
516	42	6.10e-03	-7.05e-03	-0.18	2.24e-04	5.37e-05	0.0
516	64	2.73e-04	-9.84e-03	-0.20	2.74e-04	2.61e-05	0.0
516	68	6.83e-04	-0.01	-0.20	2.73e-04	2.73e-05	0.0
516	70	9.22e-04	-5.11e-03	-0.19	2.54e-04	4.83e-05	0.0
516	72	7.13e-04	-4.47e-03	-0.18	2.22e-04	3.74e-05	0.0
517	2	7.57e-04	-6.55e-03	-0.25	3.26e-04	4.00e-05	0.0
517	10	3.79e-03	-5.97e-03	-0.18	2.12e-04	3.15e-05	0.0
517	32	3.78e-05	-7.68e-03	-0.19	2.44e-04	1.06e-05	0.0
517	36	2.96e-04	-8.13e-03	-0.19	2.43e-04	1.14e-05	0.0
517	42	5.83e-03	-7.04e-03	-0.18	2.15e-04	3.97e-05	0.0
517	64	-1.38e-04	-9.77e-03	-0.19	2.66e-04	6.85e-06	0.0
517	68	2.74e-04	-0.01	-0.19	2.65e-04	8.15e-06	0.0
517	70	5.52e-04	-4.91e-03	-0.19	2.44e-04	2.92e-05	0.0
517	72	3.76e-04	-4.31e-03	-0.18	2.14e-04	1.99e-05	0.0
518	2	1.32e-04	-6.47e-03	-0.25	3.22e-04	7.66e-06	0.0
518	4	1.67e-04	-5.21e-03	-0.20	2.59e-04	9.35e-06	0.0
518	8	-3.61e-03	-3.90e-03	-0.18	2.18e-04	-2.30e-05	0.0
518	32	-4.33e-04	-7.75e-03	-0.19	2.43e-04	-1.37e-05	0.0
518	36	-1.69e-04	-8.24e-03	-0.19	2.43e-04	-1.27e-05	0.0
518	40	-5.70e-03	-3.77e-03	-0.19	2.25e-04	-3.43e-05	0.0
518	64	-6.45e-04	-9.89e-03	-0.19	2.66e-04	-1.96e-05	0.0
518	68	-2.23e-04	-0.01	-0.19	2.65e-04	-1.79e-05	0.0
518	70	8.13e-05	-4.86e-03	-0.19	2.42e-04	4.84e-06	0.0
518	71	-7.86e-05	-4.12e-03	-0.18	2.05e-04	-3.54e-06	0.0
518	72	-4.67e-05	-4.27e-03	-0.18	2.12e-04	-1.86e-06	0.0
519	1	-5.66e-04	-5.49e-03	-0.23	2.73e-04	-2.87e-05	0.0
519	2	-4.12e-04	-6.60e-03	-0.25	3.27e-04	-2.06e-05	0.0
519	8	-4.09e-03	-3.92e-03	-0.19	2.23e-04	-4.67e-05	0.0
519	32	-8.41e-04	-7.98e-03	-0.19	2.51e-04	-3.51e-05	0.0
519	36	-5.68e-04	-8.53e-03	-0.19	2.50e-04	-3.36e-05	0.0
519	40	-6.25e-03	-3.76e-03	-0.19	2.31e-04	-6.12e-05	0.0
519	64	-1.09e-03	-0.01	-0.20	2.75e-04	-4.29e-05	0.0
519	68	-6.49e-04	-0.01	-0.20	2.75e-04	-4.05e-05	0.0
519	69	-4.30e-04	-4.22e-03	-0.18	2.09e-04	-2.18e-05	0.0
519	70	-3.28e-04	-4.95e-03	-0.19	2.46e-04	-1.64e-05	0.0
519	71	-4.30e-04	-4.22e-03	-0.18	2.09e-04	-2.18e-05	0.0
519	72	-4.10e-04	-4.36e-03	-0.18	2.16e-04	-2.07e-05	0.0
520	1	-7.27e-04	-5.66e-03	-0.23	2.80e-04	-3.73e-05	0.0
520	2	-6.28e-04	-6.79e-03	-0.25	3.36e-04	-3.18e-05	0.0
520	8	-4.41e-03	-4.01e-03	-0.19	2.32e-04	-6.14e-05	0.0
520	32	-1.00e-03	-8.24e-03	-0.19	2.60e-04	-4.32e-05	0.0
520	36	-7.09e-04	-8.83e-03	-0.19	2.60e-04	-4.08e-05	0.0
520	40	-6.69e-03	-3.83e-03	-0.19	2.41e-04	-8.08e-05	0.0
520	64	-1.27e-03	-0.01	-0.20	2.87e-04	-5.18e-05	0.0
520	68	-8.00e-04	-0.01	-0.20	2.86e-04	-4.81e-05	0.0
520	69	-5.54e-04	-4.34e-03	-0.18	2.15e-04	-2.84e-05	0.0
520	70	-4.88e-04	-5.10e-03	-0.19	2.52e-04	-2.47e-05	0.0
520	71	-5.54e-04	-4.34e-03	-0.18	2.15e-04	-2.84e-05	0.0
520	72	-5.41e-04	-4.49e-03	-0.18	2.22e-04	-2.77e-05	0.0
521	1	7.19e-04	-5.60e-03	-0.23	2.78e-04	3.61e-05	0.0
521	2	6.09e-04	-6.73e-03	-0.25	3.34e-04	3.00e-05	0.0
521	10	4.34e-03	-4.00e-03	-0.19	2.30e-04	5.79e-05	0.0
521	22	9.92e-04	-8.14e-03	-0.19	2.58e-04	4.14e-05	0.0
521	26	7.05e-04	-8.71e-03	-0.19	2.57e-04	3.94e-05	0.0
521	42	6.59e-03	-3.83e-03	-0.19	2.40e-04	7.57e-05	0.0
521	54	1.26e-03	-0.01	-0.20	2.84e-04	4.96e-05	0.0
521	58	7.98e-04	-0.01	-0.20	2.83e-04	4.63e-05	0.0
521	69	5.48e-04	-4.30e-03	-0.18	2.13e-04	2.75e-05	0.0
521	70	4.75e-04	-5.05e-03	-0.19	2.51e-04	2.34e-05	0.0
521	71	5.48e-04	-4.30e-03	-0.18	2.13e-04	2.75e-05	0.0
521	72	5.33e-04	-4.45e-03	-0.18	2.21e-04	2.67e-05	0.0
522	1	5.44e-04	-5.76e-03	-0.24	2.86e-04	2.98e-05	0.0
522	2	4.19e-04	-6.90e-03	-0.25	3.42e-04	2.35e-05	0.0
522	10	4.28e-03	-4.01e-03	-0.19	2.37e-04	5.55e-05	0.0
522	22	8.20e-04	-8.35e-03	-0.19	2.66e-04	3.55e-05	0.0
522	26	5.25e-04	-8.97e-03	-0.19	2.65e-04	3.32e-05	0.0
522	42	6.56e-03	-3.78e-03	-0.20	2.47e-04	7.48e-05	0.0

522	54	1.06e-03	-0.01	-0.20	2.93e-04	4.30e-05	0.0
522	58	5.90e-04	-0.01	-0.20	2.92e-04	3.93e-05	0.0
522	69	4.14e-04	-4.42e-03	-0.18	2.19e-04	2.27e-05	0.0
522	70	3.30e-04	-5.18e-03	-0.19	2.57e-04	1.84e-05	0.0
522	71	4.14e-04	-4.42e-03	-0.18	2.19e-04	2.27e-05	0.0
522	72	3.97e-04	-4.58e-03	-0.18	2.27e-04	2.18e-05	0.0
523	1	4.11e-04	-5.46e-03	-0.23	2.71e-04	2.01e-05	0.0
523	2	2.28e-04	-6.56e-03	-0.25	3.26e-04	1.04e-05	0.0
523	10	3.92e-03	-3.92e-03	-0.18	2.21e-04	3.78e-05	0.0
523	22	7.10e-04	-7.89e-03	-0.19	2.49e-04	2.71e-05	0.0
523	26	4.41e-04	-8.42e-03	-0.19	2.48e-04	2.58e-05	0.0
523	42	6.06e-03	-3.77e-03	-0.19	2.29e-04	5.09e-05	0.0
523	54	9.49e-04	-0.01	-0.20	2.73e-04	3.39e-05	0.0
523	58	5.18e-04	-0.01	-0.20	2.72e-04	3.19e-05	0.0
523	69	3.11e-04	-4.19e-03	-0.18	2.08e-04	1.52e-05	0.0
523	70	1.89e-04	-4.93e-03	-0.19	2.45e-04	8.74e-06	0.0
523	71	3.11e-04	-4.19e-03	-0.18	2.08e-04	1.52e-05	0.0
523	72	2.87e-04	-4.33e-03	-0.18	2.15e-04	1.39e-05	0.0
524	2	-3.64e-04	-6.52e-03	-0.25	3.24e-04	-2.04e-05	0.0
524	11	-3.58e-03	-4.34e-03	-0.17	1.94e-04	-2.27e-05	0.0
524	22	2.67e-04	-7.73e-03	-0.19	2.44e-04	3.85e-06	0.0
524	26	5.48e-06	-8.21e-03	-0.19	2.44e-04	2.90e-06	0.0
524	43	-5.65e-03	-4.44e-03	-0.17	1.87e-04	-3.32e-05	0.0
524	54	4.72e-04	-9.84e-03	-0.19	2.67e-04	8.69e-06	0.0
524	58	5.29e-05	-0.01	-0.19	2.66e-04	7.17e-06	0.0
524	70	-2.56e-04	-4.89e-03	-0.19	2.43e-04	-1.44e-05	0.0
524	72	-1.11e-04	-4.29e-03	-0.18	2.14e-04	-6.72e-06	0.0
525	2	-9.48e-04	-6.68e-03	-0.25	3.32e-04	-5.07e-05	0.0
525	8	-3.90e-03	-6.02e-03	-0.18	2.16e-04	-3.79e-05	0.0
525	22	-1.74e-04	-7.74e-03	-0.19	2.48e-04	-1.87e-05	0.0
525	26	-4.32e-04	-8.17e-03	-0.19	2.47e-04	-1.95e-05	0.0
525	40	-5.93e-03	-7.06e-03	-0.18	2.19e-04	-4.57e-05	0.0
525	54	-2.06e-06	-9.81e-03	-0.20	2.70e-04	-1.56e-05	0.0
525	58	-4.14e-04	-0.01	-0.19	2.69e-04	-1.69e-05	0.0
525	70	-6.97e-04	-5.01e-03	-0.19	2.49e-04	-3.73e-05	0.0
525	72	-5.09e-04	-4.38e-03	-0.18	2.18e-04	-2.73e-05	0.0
526	2	-1.29e-03	-7.00e-03	-0.26	3.47e-04	-6.84e-05	0.0
526	8	-4.11e-03	-6.12e-03	-0.18	2.26e-04	-5.01e-05	0.0
526	22	-4.52e-04	-7.89e-03	-0.19	2.58e-04	-3.55e-05	0.0
526	26	-7.09e-04	-8.29e-03	-0.19	2.57e-04	-3.63e-05	0.0
526	40	-6.13e-03	-7.12e-03	-0.18	2.30e-04	-5.75e-05	0.0
526	54	-3.04e-04	-9.95e-03	-0.20	2.81e-04	-3.42e-05	0.0
526	58	-7.15e-04	-0.01	-0.20	2.80e-04	-3.54e-05	0.0
526	70	-9.54e-04	-5.25e-03	-0.19	2.60e-04	-5.07e-05	0.0
526	72	-7.50e-04	-4.58e-03	-0.18	2.27e-04	-3.99e-05	0.0
527	2	-9.65e-04	-7.11e-03	-0.26	3.55e-04	-5.32e-05	0.0
527	8	-3.98e-03	-6.12e-03	-0.18	2.32e-04	-4.36e-05	0.0
527	22	-2.68e-04	-7.91e-03	-0.19	2.64e-04	-2.65e-05	0.0
527	26	-5.32e-04	-8.26e-03	-0.19	2.64e-04	-2.75e-05	0.0
527	40	-6.03e-03	-7.08e-03	-0.18	2.38e-04	-5.20e-05	0.0
527	54	-1.16e-04	-9.93e-03	-0.20	2.88e-04	-2.46e-05	0.0
527	58	-5.38e-04	-0.01	-0.20	2.88e-04	-2.63e-05	0.0
527	70	-7.15e-04	-5.33e-03	-0.20	2.66e-04	-3.95e-05	0.0
527	72	-5.62e-04	-4.64e-03	-0.19	2.32e-04	-3.11e-05	0.0
528	2	-3.21e-04	-7.40e-03	-0.26	3.70e-04	-1.75e-05	0.0
528	8	-3.60e-03	-6.19e-03	-0.19	2.42e-04	-1.99e-05	0.0
528	22	1.64e-04	-7.99e-03	-0.19	2.72e-04	-1.47e-06	0.0
528	26	-1.02e-04	-8.30e-03	-0.19	2.72e-04	-2.51e-06	0.0
528	40	-5.64e-03	-7.10e-03	-0.19	2.48e-04	-2.72e-05	0.0
528	54	3.45e-04	-9.97e-03	-0.20	2.96e-04	2.02e-06	0.0
528	58	-7.94e-05	-0.01	-0.20	2.96e-04	0.0	0.0
528	70	-2.35e-04	-5.55e-03	-0.20	2.77e-04	-1.28e-05	0.0
528	72	-1.59e-04	-4.83e-03	-0.19	2.41e-04	-8.63e-06	0.0
529	1	-6.01e-04	-5.78e-03	-0.24	2.86e-04	-3.16e-05	0.0
529	2	-4.86e-04	-6.92e-03	-0.25	3.42e-04	-2.56e-05	0.0
529	8	-4.34e-03	-4.04e-03	-0.19	2.37e-04	-5.73e-05	0.0
529	32	-8.75e-04	-8.39e-03	-0.19	2.66e-04	-3.77e-05	0.0
529	36	-5.79e-04	-9.00e-03	-0.19	2.65e-04	-3.53e-05	0.0
529	40	-6.63e-03	-3.82e-03	-0.20	2.47e-04	-7.68e-05	0.0
529	64	-1.13e-03	-0.01	-0.20	2.93e-04	-4.56e-05	0.0
529	68	-6.51e-04	-0.01	-0.20	2.92e-04	-4.18e-05	0.0
529	69	-4.57e-04	-4.44e-03	-0.18	2.19e-04	-2.41e-05	0.0
529	70	-3.81e-04	-5.20e-03	-0.19	2.57e-04	-2.00e-05	0.0
529	71	-4.57e-04	-4.44e-03	-0.18	2.19e-04	-2.41e-05	0.0
529	72	-4.42e-04	-4.59e-03	-0.18	2.27e-04	-2.33e-05	0.0
530	2	4.02e-04	-7.17e-03	-0.26	3.58e-04	2.25e-05	0.0

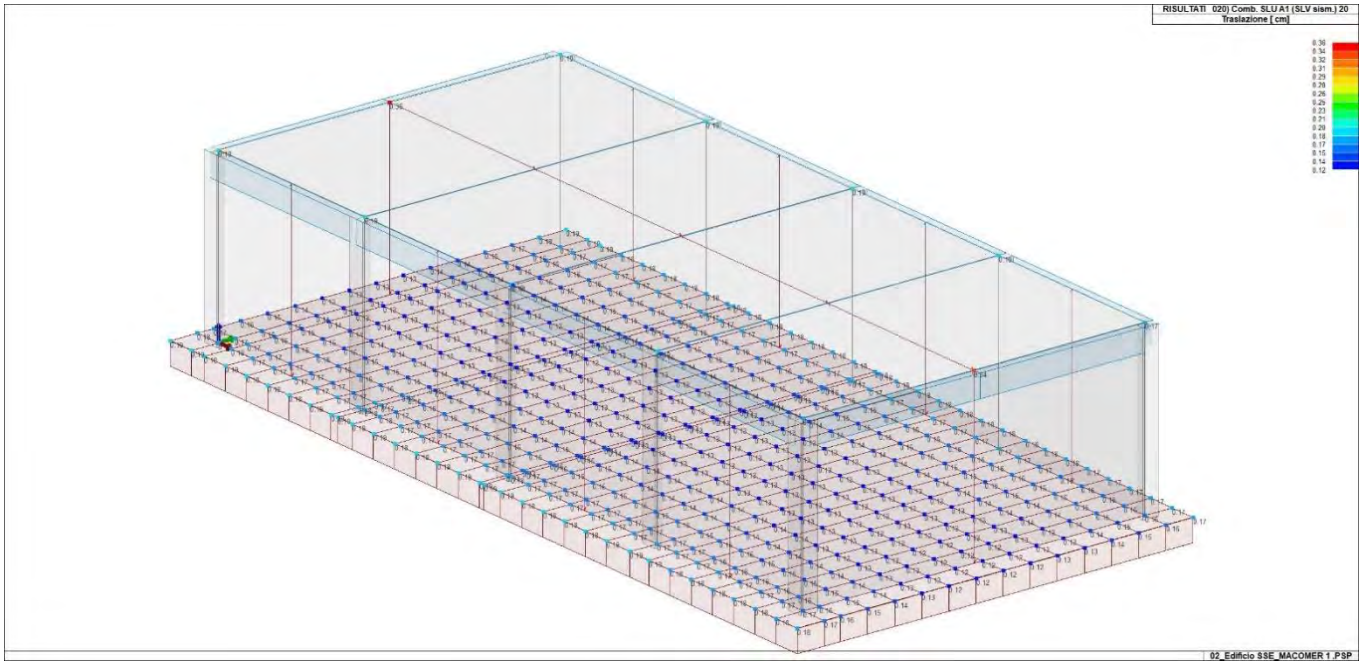
530	10	3.66e-03	-4.78e-03	-0.19	2.35e-04	2.72e-05	0.0
530	22	6.51e-04	-7.79e-03	-0.19	2.64e-04	2.48e-05	0.0
530	26	3.95e-04	-8.05e-03	-0.19	2.64e-04	2.41e-05	0.0
530	42	5.64e-03	-4.96e-03	-0.19	2.41e-04	3.32e-05	0.0
530	54	8.59e-04	-9.73e-03	-0.20	2.87e-04	2.95e-05	0.0
530	58	4.49e-04	-0.01	-0.20	2.87e-04	2.83e-05	0.0
530	70	3.06e-04	-5.37e-03	-0.20	2.68e-04	1.71e-05	0.0
530	72	3.04e-04	-4.67e-03	-0.19	2.34e-04	1.69e-05	0.0
531	2	5.72e-04	-7.17e-03	-0.26	3.55e-04	2.99e-05	0.0
531	10	3.58e-03	-4.83e-03	-0.18	2.30e-04	2.42e-05	0.0
531	24	-1.09e-03	-7.89e-03	-0.19	2.59e-04	2.65e-05	0.0
531	26	4.66e-04	-7.89e-03	-0.19	2.59e-04	2.76e-05	0.0
531	42	5.46e-03	-5.03e-03	-0.19	2.35e-04	2.60e-05	0.0
531	56	-1.96e-03	-9.89e-03	-0.20	2.80e-04	3.00e-05	0.0
531	58	5.06e-04	-9.89e-03	-0.20	2.80e-04	3.15e-05	0.0
531	70	4.32e-04	-5.37e-03	-0.20	2.66e-04	2.26e-05	0.0
531	72	4.04e-04	-4.67e-03	-0.19	2.32e-04	2.12e-05	0.0
532	2	2.16e-04	-7.01e-03	-0.26	3.48e-04	1.13e-05	0.0
532	10	3.28e-03	-4.83e-03	-0.18	2.27e-04	4.94e-06	0.0
532	24	-1.33e-03	-7.63e-03	-0.19	2.52e-04	1.41e-05	0.0
532	26	1.93e-04	-7.63e-03	-0.19	2.52e-04	1.32e-05	0.0
532	42	5.12e-03	-5.09e-03	-0.18	2.32e-04	3.10e-06	0.0
532	56	-2.20e-03	-9.54e-03	-0.20	2.72e-04	1.73e-05	0.0
532	58	2.11e-04	-9.54e-03	-0.20	2.72e-04	1.60e-05	0.0
532	70	1.64e-04	-5.25e-03	-0.20	2.61e-04	8.57e-06	0.0
532	72	1.62e-04	-4.57e-03	-0.18	2.27e-04	8.46e-06	0.0
533	2	-2.73e-04	-7.02e-03	-0.26	3.49e-04	-1.45e-05	0.0
533	8	-3.26e-03	-5.51e-03	-0.18	2.28e-04	-4.73e-06	0.0
533	22	7.93e-05	-7.40e-03	-0.19	2.52e-04	-5.29e-06	0.0
533	26	-1.58e-04	-7.52e-03	-0.19	2.52e-04	-5.13e-06	0.0
533	40	-5.09e-03	-6.17e-03	-0.18	2.33e-04	-2.76e-06	0.0
533	54	2.21e-04	-9.16e-03	-0.19	2.72e-04	-3.55e-06	0.0
533	58	-1.59e-04	-9.36e-03	-0.19	2.72e-04	-3.32e-06	0.0
533	70	-2.04e-04	-5.26e-03	-0.20	2.61e-04	-1.08e-05	0.0
533	72	-1.66e-04	-4.57e-03	-0.18	2.27e-04	-8.77e-06	0.0
534	2	-6.14e-04	-7.20e-03	-0.26	3.57e-04	-3.28e-05	0.0
534	8	-3.52e-03	-5.53e-03	-0.18	2.33e-04	-2.00e-05	0.0
534	22	-1.59e-04	-7.48e-03	-0.19	2.59e-04	-2.34e-05	0.0
534	26	-4.00e-04	-7.56e-03	-0.19	2.59e-04	-2.34e-05	0.0
534	40	-5.38e-03	-6.13e-03	-0.19	2.38e-04	-2.01e-05	0.0
534	54	-2.73e-05	-9.23e-03	-0.20	2.79e-04	-2.52e-05	0.0
534	58	-4.12e-04	-9.35e-03	-0.20	2.79e-04	-2.52e-05	0.0
534	70	-4.60e-04	-5.39e-03	-0.20	2.67e-04	-2.46e-05	0.0
534	72	-3.96e-04	-4.69e-03	-0.19	2.32e-04	-2.11e-05	0.0
535	2	-3.53e-04	-7.24e-03	-0.26	3.60e-04	-2.22e-05	0.0
535	8	-3.49e-03	-5.50e-03	-0.19	2.36e-04	-1.79e-05	0.0
535	22	5.69e-05	-7.44e-03	-0.19	2.62e-04	-8.97e-06	0.0
535	24	-1.79e-03	-7.49e-03	-0.19	2.61e-04	-1.20e-05	0.0
535	40	-5.42e-03	-6.06e-03	-0.19	2.43e-04	-2.03e-05	0.0
535	54	2.24e-04	-9.15e-03	-0.20	2.82e-04	-6.10e-06	0.0
535	56	-2.71e-03	-9.23e-03	-0.20	2.82e-04	-1.09e-05	0.0
535	70	-2.65e-04	-5.42e-03	-0.20	2.70e-04	-1.66e-05	0.0
535	72	-2.31e-04	-4.71e-03	-0.19	2.35e-04	-1.44e-05	0.0
536	2	1.12e-04	-7.49e-03	-0.26	3.70e-04	3.73e-06	0.0
536	10	3.39e-03	-5.54e-03	-0.19	2.42e-04	8.56e-06	0.0
536	24	-1.48e-03	-7.53e-03	-0.19	2.66e-04	5.68e-06	0.0
536	26	1.38e-04	-7.54e-03	-0.19	2.66e-04	8.38e-06	0.0
536	42	5.36e-03	-6.04e-03	-0.19	2.48e-04	1.24e-05	0.0
536	56	-2.38e-03	-9.21e-03	-0.20	2.87e-04	7.83e-06	0.0
536	58	1.83e-04	-9.21e-03	-0.20	2.87e-04	1.21e-05	0.0
536	70	8.29e-05	-5.61e-03	-0.20	2.77e-04	2.76e-06	0.0
536	72	6.57e-05	-4.87e-03	-0.19	2.41e-04	2.18e-06	0.0
537	2	2.15e-04	-7.47e-03	-0.26	3.68e-04	1.04e-05	0.0
537	10	3.46e-03	-5.54e-03	-0.19	2.40e-04	1.34e-05	0.0
537	32	-1.04e-04	-7.53e-03	-0.19	2.66e-04	6.70e-06	0.0
537	36	1.54e-04	-7.53e-03	-0.19	2.66e-04	7.47e-06	0.0
537	42	5.43e-03	-6.06e-03	-0.19	2.46e-04	1.76e-05	0.0
537	64	-2.40e-04	-9.21e-03	-0.20	2.87e-04	7.01e-06	0.0
537	68	1.73e-04	-9.22e-03	-0.20	2.87e-04	8.24e-06	0.0
537	70	1.60e-04	-5.59e-03	-0.20	2.76e-04	7.74e-06	0.0
537	72	1.31e-04	-4.85e-03	-0.19	2.40e-04	6.45e-06	0.0
538	2	7.01e-04	-7.32e-03	-0.26	3.62e-04	3.63e-05	0.0
538	10	3.62e-03	-5.54e-03	-0.18	2.35e-04	2.48e-05	0.0
538	32	2.35e-04	-7.50e-03	-0.19	2.62e-04	2.49e-05	0.0
538	36	4.80e-04	-7.55e-03	-0.19	2.62e-04	2.52e-05	0.0
538	42	5.51e-03	-6.10e-03	-0.19	2.40e-04	2.61e-05	0.0

538	64	1.15e-04	-9.22e-03	-0.20	2.82e-04	2.63e-05	0.0
538	68	5.06e-04	-9.30e-03	-0.20	2.82e-04	2.67e-05	0.0
538	70	5.25e-04	-5.48e-03	-0.20	2.71e-04	2.72e-05	0.0
538	72	4.54e-04	-4.76e-03	-0.19	2.36e-04	2.35e-05	0.0
539	1	-5.42e-04	-5.84e-03	-0.24	2.88e-04	-2.81e-05	0.0
539	2	-4.11e-04	-7.00e-03	-0.25	3.45e-04	-2.13e-05	0.0
539	8	-4.30e-03	-4.00e-03	-0.19	2.41e-04	-5.61e-05	0.0
539	32	-8.24e-04	-8.57e-03	-0.20	2.71e-04	-3.55e-05	0.0
539	36	-5.26e-04	-9.24e-03	-0.20	2.70e-04	-3.30e-05	0.0
539	40	-6.59e-03	-3.73e-03	-0.20	2.52e-04	-7.66e-05	0.0
539	64	-1.07e-03	-0.01	-0.20	3.00e-04	-4.39e-05	0.0
539	68	-5.93e-04	-0.01	-0.20	2.98e-04	-3.98e-05	0.0
539	69	-4.12e-04	-4.49e-03	-0.18	2.21e-04	-2.13e-05	0.0
539	70	-3.25e-04	-5.26e-03	-0.19	2.59e-04	-1.68e-05	0.0
539	71	-4.12e-04	-4.49e-03	-0.18	2.21e-04	-2.13e-05	0.0
539	72	-3.95e-04	-4.64e-03	-0.18	2.29e-04	-2.04e-05	0.0
540	1	4.90e-04	-5.88e-03	-0.24	2.89e-04	2.68e-05	0.0
540	2	3.49e-04	-7.04e-03	-0.26	3.46e-04	1.98e-05	0.0
540	10	4.25e-03	-4.02e-03	-0.19	2.41e-04	5.49e-05	0.0
540	22	7.72e-04	-8.58e-03	-0.20	2.71e-04	3.39e-05	0.0
540	26	4.75e-04	-9.25e-03	-0.20	2.70e-04	3.14e-05	0.0
540	42	6.53e-03	-3.74e-03	-0.20	2.53e-04	7.51e-05	0.0
540	54	1.01e-03	-0.01	-0.20	3.00e-04	4.19e-05	0.0
540	58	5.36e-04	-0.01	-0.20	2.98e-04	3.79e-05	0.0
540	69	3.72e-04	-4.51e-03	-0.18	2.22e-04	2.04e-05	0.0
540	70	2.78e-04	-5.29e-03	-0.19	2.60e-04	1.57e-05	0.0
540	71	3.72e-04	-4.51e-03	-0.18	2.22e-04	2.04e-05	0.0
540	72	3.53e-04	-4.67e-03	-0.18	2.30e-04	1.94e-05	0.0

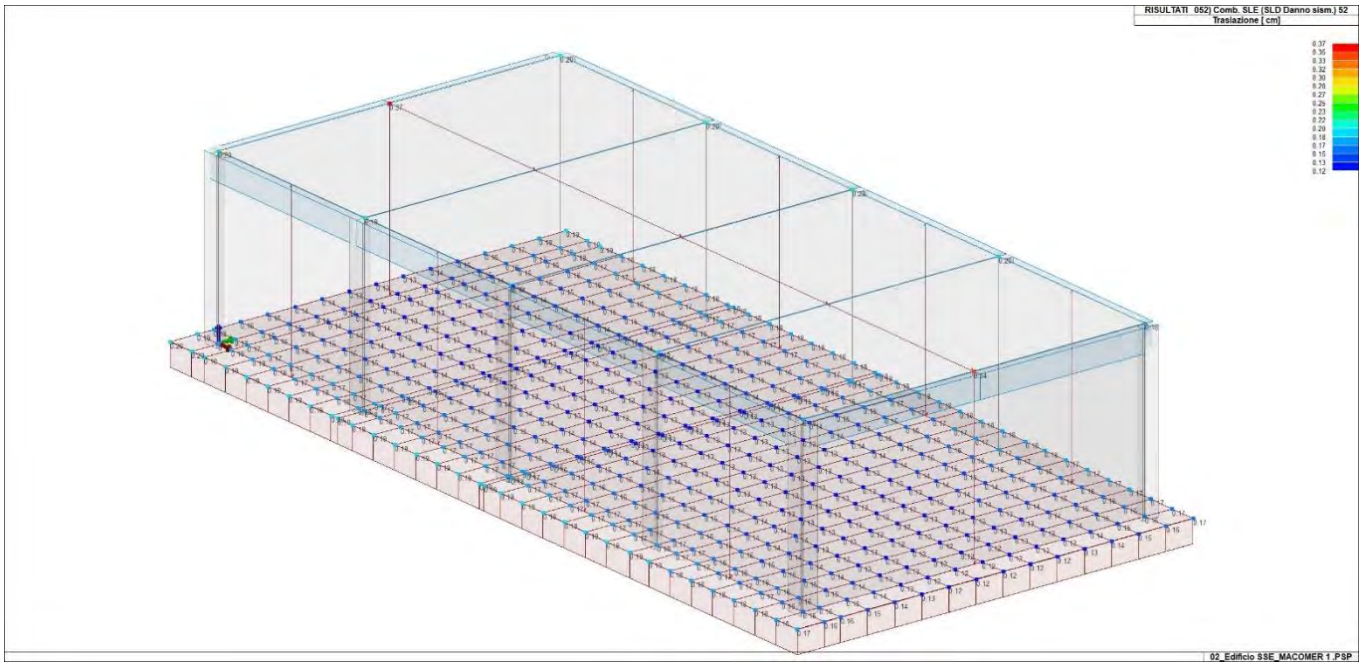
Nodo	**Traslazione X**	**Traslazione Y**	**Traslazione Z**	**Rotazione X**	**Rotazione Y**	**Rotazione Z**
	-0.09	-0.14	-0.51	-1.94e-03	-1.93e-04	-7.26e-05
	0.09	0.14	-0.12	1.94e-03	1.93e-04	7.26e-05



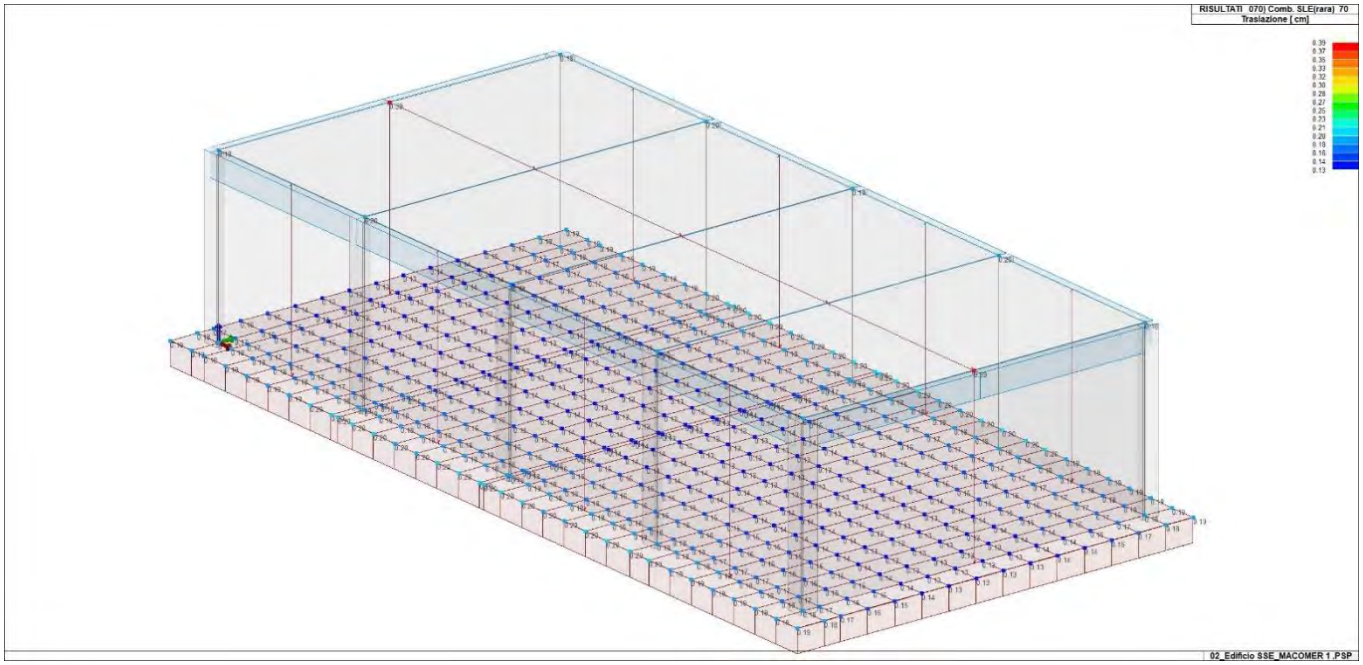
41_RIS_SPOSTAMENTI_002_Comb. SLU A1 2



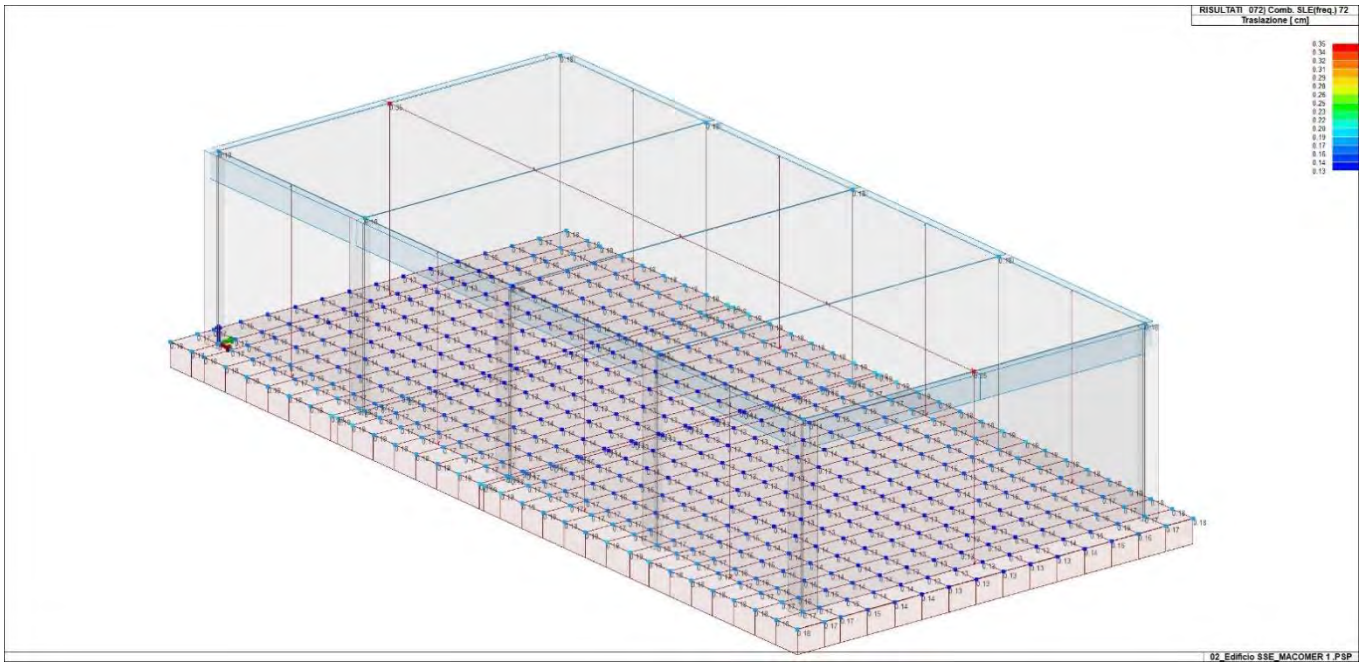
41_RIS_SPOSTAMENTI_020_Comb. SLU A1 (SLV sism.) 20



41_RIS_SPOSTAMENTI_052_Comb. SLE (SLD Danno sism.) 52



41_RIS_SPOSTAMENTI_070_Comb. SLE(rara) 70



41_RIS_SPOSTAMENTI_072_Comb. SLE(freq.) 72

Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
Nodo		**Azione X**	**Azione Y**	**Azione Z**	**Azione RX**	**Azione RY**	**Azione RZ**
Nodo	**Cmb**	**Azione X** daN	**Azione Y** daN	**Azione Z** daN	**Azione RX** daN cm	**Azione RY** daN cm	**Azione RZ** daN cm

37. RISULTATI OPERE DI FONDAZIONE

37.1. LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sotto riportate.

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.

Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (espresse nel riferimento globale della struttura) per ogni palo componente l'opera.

In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	codice corrispondente al nome assegnato al tipo di plinto di fondazione: 3) palo singolo (*PALO*) 4) plinto su palo 5) plinto su due pali (*PL.2P*) 6) plinto su tre pali (*PL.3P*) 7) plinto su quattro pali (*PL.4P*) 8) plinto rettangolare su cinque pali (*PL.5P.R*) 9) plinto pentagonale su cinque pali (*PL.5P*) 10) plinto su sei pali (*PL.6P*)
Palo	numero del palo
Comb.	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
Quota	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione Fz (corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno.

In particolare viene riportato:

Nodo		numero del nodo a cui è applicato il plinto
Tipo		Codice identificativo del nome assegnato al plinto
area		area dell'impronta del plinto
Wink O	**Wink V**	coefficienti di Winkler (orizzontale e verticale) adottati

Comb	Combinazione di carico in cui si verificano i valori riportati
Pt (P1 P2 P3 P4)	valori di pressione nei vertici

La terza tabella è riferita alle fondazioni tipo platea su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.

Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che compaiono nella tabella.

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Settembre 2014, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
105	PLINTO SUPERFICIALE
106	PLINTO SUPERFICIALE
107	PLINTO SUPERFICIALE
108	PLINTO SUPERFICIALE
109	PLINTO SUPERFICIALE
110	PLINTO SUPERFICIALE
111	PLINTO SUPERFICIALE
112	PLINTO SUPERFICIALE
113	PLINTO SUPERFICIALE
114	PLINTO SUPERFICIALE
115	PLINTO SUPERFICIALE
116	PLINTO SUPERFICIALE
117	PLINTO SUPERFICIALE
118	PLINTO SUPERFICIALE
119	PLINTO SUPERFICIALE
120	PLINTO SUPERFICIALE
121	PLINTO SUPERFICIALE
122	PLINTO SUPERFICIALE
123	PLINTO SUPERFICIALE
124	FONDAZIONE NASTRIFORME
125	CALCOLO DEI K DI WINKLER

Nodo (G)	Pt 1/12 daN/cm2	Pt 2/13 daN/cm2	Pt 3... daN/cm2	Pt 4... daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2

1	-0.24	-0.18	-0.19	-0.18	-0.17
3	-0.24	-0.18	-0.19	-0.18	-0.17
6	-0.25	-0.18	-0.19	-0.19	-0.18
9	-0.25	-0.18	-0.19	-0.19	-0.18
11	-0.25	-0.18	-0.18	-0.19	-0.18
13	-0.25	-0.18	-0.18	-0.19	-0.18
15	-0.25	-0.18	-0.19	-0.19	-0.18
17	-0.25	-0.18	-0.19	-0.19	-0.18
19	-0.24	-0.18	-0.19	-0.18	-0.17
21	-0.24	-0.18	-0.19	-0.18	-0.17
22	-0.23	-0.17	-0.18	-0.17	-0.17
23	-0.23	-0.17	-0.18	-0.17	-0.16
24	-0.24	-0.18	-0.18	-0.18	-0.17
25	-0.22	-0.17	-0.17	-0.17	-0.16
26	-0.23	-0.18	-0.18	-0.18	-0.17
27	-0.22	-0.17	-0.17	-0.17	-0.16
28	-0.23	-0.18	-0.18	-0.18	-0.17
29	-0.23	-0.17	-0.17	-0.17	-0.16
30	-0.24	-0.18	-0.18	-0.18	-0.17
31	-0.23	-0.17	-0.17	-0.17	-0.17
32	-0.24	-0.18	-0.18	-0.18	-0.17
33	-0.23	-0.17	-0.18	-0.18	-0.17
34	-0.24	-0.18	-0.18	-0.18	-0.17
35	-0.23	-0.17	-0.18	-0.18	-0.17
36	-0.24	-0.18	-0.18	-0.19	-0.18
37	-0.24	-0.18	-0.18	-0.18	-0.17
38	-0.23	-0.17	-0.18	-0.18	-0.17
39	-0.24	-0.18	-0.18	-0.19	-0.17
40	-0.23	-0.17	-0.17	-0.18	-0.17
41	-0.24	-0.18	-0.18	-0.18	-0.17
42	-0.23	-0.17	-0.17	-0.18	-0.17
43	-0.24	-0.18	-0.18	-0.18	-0.17
44	-0.23	-0.17	-0.17	-0.18	-0.17
45	-0.24	-0.18	-0.18	-0.18	-0.17
46	-0.23	-0.17	-0.17	-0.18	-0.17
47	-0.24	-0.18	-0.18	-0.18	-0.17
48	-0.23	-0.17	-0.17	-0.18	-0.17
49	-0.24	-0.18	-0.18	-0.19	-0.17
50	-0.23	-0.17	-0.17	-0.18	-0.17
51	-0.23	-0.17	-0.17	-0.18	-0.17
52	-0.24	-0.18	-0.18	-0.19	-0.18
53	-0.23	-0.17	-0.17	-0.18	-0.17
54	-0.24	-0.18	-0.18	-0.18	-0.17
55	-0.23	-0.17	-0.17	-0.18	-0.17
56	-0.24	-0.18	-0.18	-0.18	-0.17
57	-0.23	-0.17	-0.17	-0.18	-0.17
58	-0.24	-0.18	-0.18	-0.18	-0.17
59	-0.23	-0.17	-0.17	-0.18	-0.17
60	-0.24	-0.18	-0.18	-0.18	-0.17
61	-0.23	-0.17	-0.17	-0.18	-0.17
62	-0.24	-0.18	-0.18	-0.18	-0.17
63	-0.23	-0.17	-0.18	-0.18	-0.17
64	-0.24	-0.18	-0.18	-0.19	-0.18
65	-0.23	-0.17	-0.18	-0.18	-0.17
66	-0.23	-0.17	-0.18	-0.18	-0.17
67	-0.24	-0.18	-0.19	-0.19	-0.18
68	-0.23	-0.17	-0.18	-0.18	-0.17
69	-0.24	-0.18	-0.18	-0.18	-0.17
70	-0.23	-0.17	-0.17	-0.17	-0.16
71	-0.24	-0.18	-0.18	-0.18	-0.17
72	-0.23	-0.17	-0.17	-0.17	-0.16
73	-0.24	-0.18	-0.18	-0.18	-0.17
74	-0.22	-0.17	-0.17	-0.17	-0.16
75	-0.23	-0.18	-0.18	-0.18	-0.17
76	-0.22	-0.17	-0.17	-0.17	-0.16
77	-0.23	-0.18	-0.18	-0.18	-0.17
78	-0.23	-0.17	-0.18	-0.17	-0.16
79	-0.24	-0.18	-0.19	-0.18	-0.17
80	-0.23	-0.17	-0.18	-0.17	-0.17
81	-0.21	-0.16	-0.16	-0.16	-0.15
82	-0.21	-0.16	-0.16	-0.16	-0.15
83	-0.21	-0.16	-0.16	-0.16	-0.15
84	-0.21	-0.16	-0.16	-0.16	-0.15
85	-0.21	-0.16	-0.16	-0.16	-0.15
86	-0.21	-0.16	-0.16	-0.16	-0.15
87	-0.21	-0.16	-0.16	-0.16	-0.16

88	-0.21	-0.16	-0.16	-0.16	-0.16
89	-0.24	-0.18	-0.18	-0.18	-0.17
90	-0.21	-0.16	-0.16	-0.16	-0.16
91	-0.21	-0.16	-0.16	-0.16	-0.16
92	-0.21	-0.16	-0.16	-0.16	-0.15
93	-0.21	-0.16	-0.16	-0.16	-0.15
94	-0.21	-0.16	-0.16	-0.16	-0.16
95	-0.21	-0.16	-0.16	-0.16	-0.16
96	-0.22	-0.16	-0.16	-0.16	-0.16
97	-0.22	-0.16	-0.16	-0.16	-0.16
98	-0.21	-0.16	-0.16	-0.16	-0.16
99	-0.21	-0.16	-0.16	-0.16	-0.16
100	-0.21	-0.16	-0.16	-0.16	-0.15
101	-0.21	-0.16	-0.16	-0.16	-0.16
102	-0.21	-0.16	-0.16	-0.16	-0.16
103	-0.21	-0.16	-0.16	-0.16	-0.16
104	-0.21	-0.16	-0.16	-0.16	-0.16
105	-0.21	-0.16	-0.16	-0.16	-0.16
106	-0.21	-0.16	-0.16	-0.16	-0.16
107	-0.21	-0.16	-0.16	-0.16	-0.15
108	-0.21	-0.16	-0.16	-0.16	-0.15
109	-0.21	-0.16	-0.16	-0.16	-0.15
110	-0.21	-0.16	-0.16	-0.16	-0.15
111	-0.21	-0.16	-0.16	-0.16	-0.15
112	-0.21	-0.16	-0.16	-0.16	-0.15
113	-0.19	-0.15	-0.15	-0.15	-0.14
114	-0.19	-0.15	-0.15	-0.15	-0.14
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119	-0.20	-0.15	-0.15	-0.15	-0.15
120	-0.20	-0.15	-0.15	-0.15	-0.15
121	-0.24	-0.18	-0.18	-0.18	-0.17
122	-0.20	-0.15	-0.15	-0.15	-0.15
123	-0.20	-0.15	-0.15	-0.15	-0.15
124	-0.20	-0.15	-0.15	-0.15	-0.15
125	-0.20	-0.15	-0.15	-0.15	-0.15
126	-0.20	-0.15	-0.15	-0.15	-0.15
127	-0.20	-0.15	-0.15	-0.15	-0.15
128	-0.20	-0.15	-0.15	-0.15	-0.15
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130	-0.20	-0.15	-0.15	-0.15	-0.15
131	-0.20	-0.15	-0.15	-0.15	-0.15
132	-0.20	-0.15	-0.15	-0.15	-0.15
133	-0.20	-0.15	-0.15	-0.15	-0.15
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136	-0.20	-0.15	-0.15	-0.15	-0.15
137	-0.20	-0.15	-0.15	-0.15	-0.15
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139	-0.20	-0.15	-0.15	-0.15	-0.14
140	-0.20	-0.15	-0.15	-0.15	-0.14
141	-0.20	-0.15	-0.15	-0.15	-0.14
142	-0.19	-0.15	-0.15	-0.15	-0.14
143	-0.19	-0.15	-0.15	-0.15	-0.14
144	-0.19	-0.15	-0.15	-0.15	-0.14
145	-0.18	-0.14	-0.14	-0.14	-0.14
146	-0.18	-0.14	-0.14	-0.14	-0.14
147	-0.18	-0.14	-0.14	-0.14	-0.14
148	-0.18	-0.14	-0.14	-0.14	-0.14
149	-0.18	-0.14	-0.14	-0.14	-0.14
150	-0.19	-0.14	-0.14	-0.14	-0.14
151	-0.19	-0.14	-0.14	-0.14	-0.14
152	-0.19	-0.14	-0.14	-0.14	-0.14
153	-0.24	-0.18	-0.18	-0.18	-0.17
154	-0.19	-0.14	-0.14	-0.14	-0.14
155	-0.19	-0.14	-0.14	-0.14	-0.14
156	-0.19	-0.14	-0.14	-0.14	-0.14
157	-0.19	-0.14	-0.14	-0.14	-0.14
158	-0.19	-0.14	-0.14	-0.14	-0.14
159	-0.19	-0.14	-0.14	-0.14	-0.14
160	-0.19	-0.14	-0.14	-0.14	-0.14
161	-0.19	-0.14	-0.14	-0.14	-0.14
162	-0.19	-0.14	-0.14	-0.14	-0.14
163	-0.19	-0.14	-0.14	-0.14	-0.14

164	-0.19	-0.14	-0.14	-0.14	-0.14
165	-0.19	-0.14	-0.14	-0.14	-0.14
166	-0.19	-0.14	-0.14	-0.14	-0.14
167	-0.19	-0.14	-0.14	-0.14	-0.14
168	-0.19	-0.14	-0.14	-0.14	-0.14
169	-0.19	-0.14	-0.14	-0.14	-0.14
170	-0.19	-0.14	-0.14	-0.14	-0.14
171	-0.19	-0.14	-0.14	-0.14	-0.14
172	-0.18	-0.14	-0.14	-0.14	-0.14
173	-0.18	-0.14	-0.14	-0.14	-0.14
174	-0.18	-0.14	-0.14	-0.14	-0.14
175	-0.18	-0.14	-0.14	-0.14	-0.14
176	-0.18	-0.14	-0.14	-0.14	-0.14
177	-0.17	-0.13	-0.14	-0.13	-0.13
178	-0.17	-0.13	-0.14	-0.13	-0.13
179	-0.18	-0.13	-0.14	-0.13	-0.13
180	-0.18	-0.13	-0.13	-0.13	-0.13
181	-0.18	-0.13	-0.13	-0.13	-0.13
182	-0.18	-0.13	-0.13	-0.14	-0.13
183	-0.18	-0.13	-0.13	-0.14	-0.13
184	-0.18	-0.13	-0.13	-0.14	-0.13
185	-0.24	-0.18	-0.18	-0.18	-0.17
186	-0.18	-0.13	-0.13	-0.14	-0.13
187	-0.18	-0.13	-0.13	-0.14	-0.13
188	-0.18	-0.13	-0.13	-0.14	-0.13
189	-0.18	-0.13	-0.13	-0.14	-0.13
190	-0.18	-0.13	-0.13	-0.14	-0.13
191	-0.18	-0.13	-0.13	-0.14	-0.13
192	-0.18	-0.13	-0.13	-0.14	-0.13
193	-0.18	-0.13	-0.13	-0.14	-0.13
194	-0.18	-0.13	-0.13	-0.14	-0.13
195	-0.18	-0.13	-0.13	-0.14	-0.13
196	-0.18	-0.13	-0.13	-0.14	-0.13
197	-0.18	-0.13	-0.13	-0.14	-0.13
198	-0.18	-0.13	-0.13	-0.14	-0.13
199	-0.18	-0.13	-0.13	-0.14	-0.13
200	-0.18	-0.13	-0.13	-0.14	-0.13
201	-0.18	-0.13	-0.13	-0.14	-0.13
202	-0.18	-0.13	-0.13	-0.14	-0.13
203	-0.18	-0.13	-0.13	-0.14	-0.13
204	-0.18	-0.13	-0.13	-0.13	-0.13
205	-0.18	-0.13	-0.13	-0.13	-0.13
206	-0.18	-0.13	-0.14	-0.13	-0.13
207	-0.17	-0.13	-0.14	-0.13	-0.13
208	-0.17	-0.13	-0.14	-0.13	-0.13
209	-0.17	-0.13	-0.13	-0.13	-0.13
210	-0.17	-0.13	-0.13	-0.13	-0.13
211	-0.17	-0.13	-0.13	-0.13	-0.13
212	-0.17	-0.13	-0.13	-0.13	-0.13
213	-0.17	-0.13	-0.13	-0.13	-0.13
214	-0.17	-0.13	-0.13	-0.13	-0.13
215	-0.17	-0.13	-0.13	-0.13	-0.13
216	-0.17	-0.13	-0.13	-0.13	-0.13
217	-0.24	-0.18	-0.18	-0.19	-0.17
218	-0.17	-0.13	-0.13	-0.13	-0.13
219	-0.17	-0.13	-0.13	-0.13	-0.13
220	-0.17	-0.13	-0.13	-0.13	-0.13
221	-0.17	-0.13	-0.13	-0.13	-0.13
222	-0.17	-0.13	-0.13	-0.13	-0.13
223	-0.17	-0.13	-0.13	-0.13	-0.13
224	-0.17	-0.13	-0.13	-0.13	-0.13
225	-0.17	-0.13	-0.13	-0.13	-0.13
226	-0.17	-0.13	-0.13	-0.13	-0.13
227	-0.17	-0.13	-0.13	-0.13	-0.13
228	-0.17	-0.13	-0.13	-0.13	-0.13
229	-0.17	-0.13	-0.13	-0.13	-0.13
230	-0.17	-0.13	-0.13	-0.13	-0.13
231	-0.17	-0.13	-0.13	-0.13	-0.13
232	-0.17	-0.13	-0.13	-0.13	-0.13
233	-0.17	-0.13	-0.13	-0.13	-0.13
234	-0.17	-0.13	-0.13	-0.13	-0.13
235	-0.17	-0.13	-0.13	-0.13	-0.13
236	-0.17	-0.13	-0.13	-0.13	-0.13
237	-0.17	-0.13	-0.13	-0.13	-0.13
238	-0.17	-0.13	-0.13	-0.13	-0.13
239	-0.17	-0.13	-0.13	-0.13	-0.13

240	-0.17	-0.13	-0.13	-0.13	-0.13
241	-0.17	-0.13	-0.13	-0.13	-0.13
242	-0.17	-0.13	-0.13	-0.13	-0.13
243	-0.17	-0.13	-0.13	-0.13	-0.13
244	-0.17	-0.13	-0.13	-0.13	-0.13
245	-0.17	-0.13	-0.13	-0.13	-0.13
246	-0.17	-0.13	-0.13	-0.13	-0.13
247	-0.17	-0.13	-0.13	-0.13	-0.13
248	-0.17	-0.13	-0.13	-0.13	-0.13
249	-0.24	-0.18	-0.19	-0.19	-0.18
250	-0.17	-0.13	-0.13	-0.13	-0.13
251	-0.17	-0.13	-0.13	-0.13	-0.13
252	-0.17	-0.13	-0.13	-0.13	-0.13
253	-0.17	-0.13	-0.13	-0.13	-0.13
254	-0.17	-0.13	-0.13	-0.13	-0.13
255	-0.17	-0.13	-0.13	-0.13	-0.13
256	-0.17	-0.13	-0.13	-0.13	-0.13
257	-0.17	-0.13	-0.13	-0.13	-0.13
258	-0.17	-0.13	-0.13	-0.13	-0.13
259	-0.17	-0.13	-0.13	-0.13	-0.13
260	-0.17	-0.13	-0.13	-0.13	-0.13
261	-0.17	-0.13	-0.13	-0.13	-0.13
262	-0.17	-0.13	-0.13	-0.13	-0.13
263	-0.17	-0.13	-0.13	-0.13	-0.13
264	-0.17	-0.13	-0.13	-0.13	-0.13
265	-0.17	-0.13	-0.13	-0.13	-0.13
266	-0.17	-0.13	-0.13	-0.13	-0.13
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268	-0.17	-0.13	-0.13	-0.13	-0.13
269	-0.17	-0.13	-0.13	-0.13	-0.13
270	-0.17	-0.13	-0.13	-0.13	-0.13
271	-0.17	-0.13	-0.13	-0.13	-0.13
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277	-0.17	-0.13	-0.13	-0.13	-0.13
278	-0.17	-0.13	-0.13	-0.13	-0.13
279	-0.18	-0.13	-0.13	-0.13	-0.13
280	-0.18	-0.13	-0.13	-0.13	-0.13
281	-0.24	-0.18	-0.18	-0.18	-0.17
282	-0.18	-0.13	-0.13	-0.13	-0.13
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291	-0.18	-0.13	-0.13	-0.13	-0.13
292	-0.18	-0.13	-0.13	-0.13	-0.13
293	-0.18	-0.13	-0.13	-0.13	-0.13
294	-0.18	-0.13	-0.13	-0.13	-0.13
295	-0.18	-0.13	-0.13	-0.13	-0.13
296	-0.18	-0.13	-0.13	-0.13	-0.13
297	-0.18	-0.13	-0.13	-0.13	-0.13
298	-0.18	-0.13	-0.13	-0.13	-0.13
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306	-0.18	-0.14	-0.14	-0.14	-0.13
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308	-0.18	-0.14	-0.14	-0.14	-0.13
309	-0.18	-0.14	-0.14	-0.14	-0.13
310	-0.18	-0.14	-0.14	-0.14	-0.13
311	-0.18	-0.14	-0.14	-0.14	-0.13
312	-0.18	-0.14	-0.14	-0.14	-0.14
313	-0.24	-0.18	-0.18	-0.18	-0.17
314	-0.18	-0.14	-0.14	-0.14	-0.14
315	-0.18	-0.14	-0.14	-0.14	-0.14

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317	-0.18	-0.14	-0.14	-0.14	-0.14
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323	-0.18	-0.14	-0.14	-0.14	-0.14
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325	-0.18	-0.14	-0.14	-0.14	-0.14
326	-0.18	-0.14	-0.14	-0.14	-0.14
327	-0.18	-0.14	-0.14	-0.14	-0.14
328	-0.18	-0.14	-0.14	-0.14	-0.14
329	-0.18	-0.14	-0.14	-0.14	-0.14
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333	-0.18	-0.14	-0.14	-0.14	-0.13
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337	-0.19	-0.15	-0.15	-0.14	-0.14
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341	-0.19	-0.14	-0.15	-0.15	-0.14
342	-0.19	-0.14	-0.15	-0.15	-0.14
343	-0.19	-0.14	-0.15	-0.15	-0.14
344	-0.19	-0.14	-0.15	-0.15	-0.14
345	-0.23	-0.18	-0.18	-0.18	-0.17
346	-0.19	-0.14	-0.15	-0.15	-0.14
347	-0.19	-0.14	-0.15	-0.15	-0.14
348	-0.19	-0.14	-0.15	-0.15	-0.14
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354	-0.19	-0.14	-0.15	-0.15	-0.14
355	-0.19	-0.14	-0.15	-0.15	-0.14
356	-0.19	-0.14	-0.15	-0.15	-0.14
357	-0.19	-0.14	-0.15	-0.15	-0.14
358	-0.19	-0.14	-0.15	-0.15	-0.14
359	-0.19	-0.14	-0.15	-0.15	-0.14
360	-0.19	-0.14	-0.15	-0.15	-0.14
361	-0.19	-0.14	-0.15	-0.15	-0.14
362	-0.19	-0.14	-0.15	-0.15	-0.14
363	-0.19	-0.14	-0.15	-0.15	-0.14
364	-0.19	-0.14	-0.15	-0.15	-0.14
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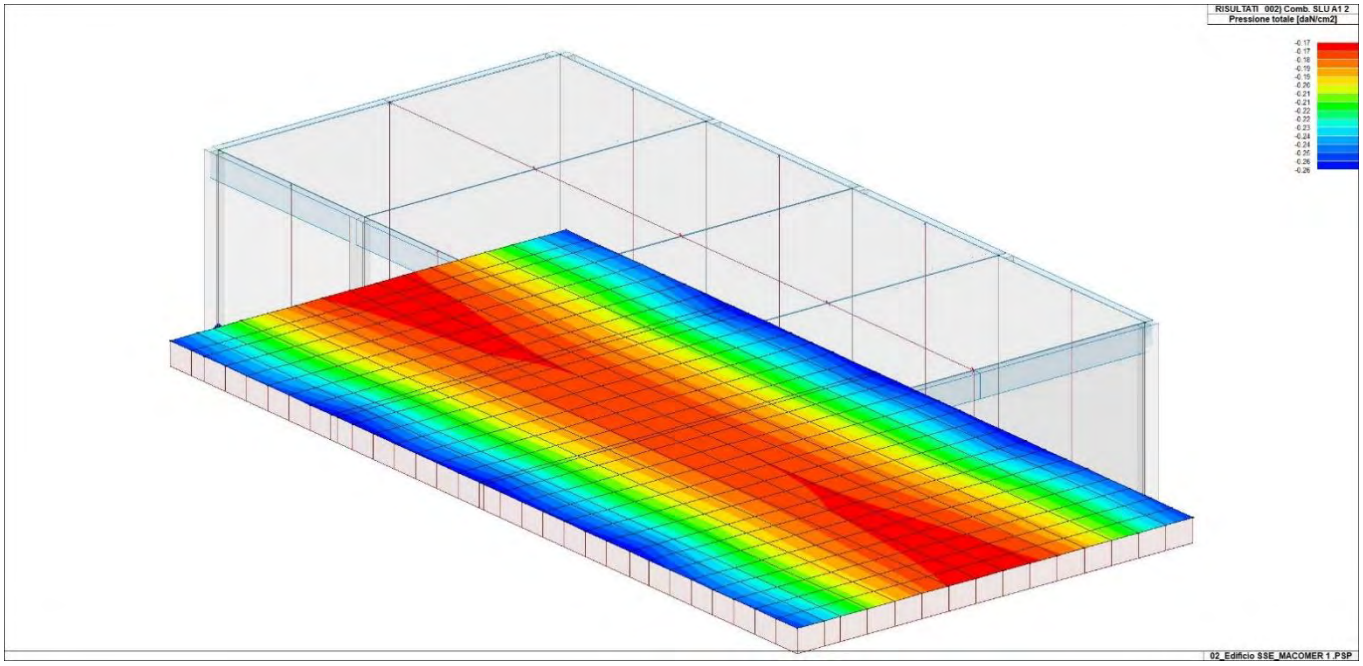
366	-0.19	-0.14	-0.15	-0.14	-0.14
367	-0.19	-0.15	-0.15	-0.14	-0.14
368	-0.19	-0.15	-0.15	-0.14	-0.14
369	-0.20	-0.16	-0.16	-0.15	-0.15
370	-0.20	-0.15	-0.16	-0.15	-0.15
371	-0.20	-0.15	-0.16	-0.15	-0.15
372	-0.20	-0.15	-0.16	-0.16	-0.15
373	-0.20	-0.15	-0.16	-0.16	-0.15
374	-0.21	-0.15	-0.16	-0.16	-0.15
375	-0.21	-0.15	-0.16	-0.16	-0.15
376	-0.21	-0.15	-0.16	-0.16	-0.15
377	-0.23	-0.18	-0.18	-0.18	-0.17
378	-0.21	-0.15	-0.16	-0.16	-0.15
379	-0.21	-0.15	-0.16	-0.16	-0.15
380	-0.21	-0.15	-0.16	-0.16	-0.15
381	-0.21	-0.15	-0.16	-0.16	-0.15
382	-0.21	-0.15	-0.16	-0.16	-0.15
383	-0.21	-0.15	-0.16	-0.16	-0.15
384	-0.21	-0.15	-0.16	-0.16	-0.15
385	-0.21	-0.15	-0.16	-0.16	-0.15
386	-0.21	-0.15	-0.16	-0.16	-0.15
387	-0.21	-0.15	-0.16	-0.16	-0.15
388	-0.21	-0.15	-0.16	-0.16	-0.15
389	-0.21	-0.15	-0.16	-0.16	-0.15
390	-0.21	-0.15	-0.16	-0.16	-0.15
391	-0.21	-0.15	-0.16	-0.16	-0.15

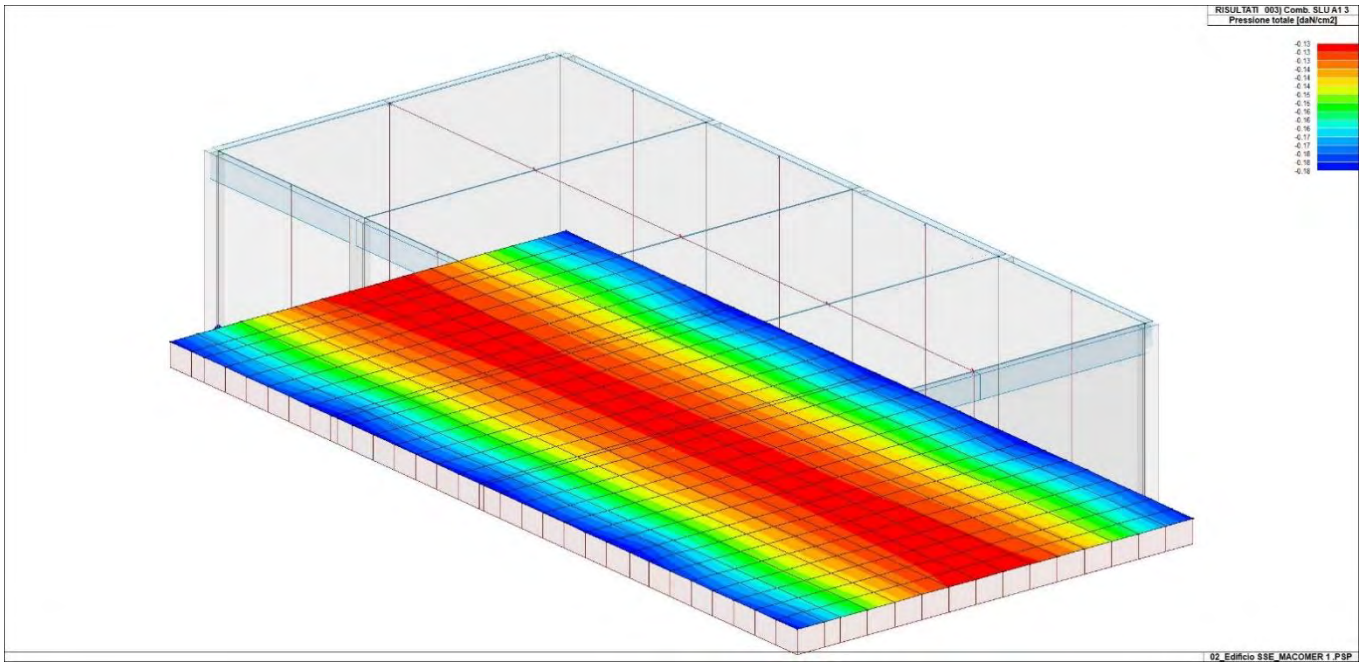
392	-0.21	-0.15	-0.16	-0.16	-0.15
393	-0.21	-0.15	-0.16	-0.16	-0.15
394	-0.21	-0.15	-0.16	-0.16	-0.15
395	-0.21	-0.15	-0.16	-0.16	-0.15
396	-0.20	-0.15	-0.16	-0.16	-0.15
397	-0.20	-0.15	-0.16	-0.15	-0.15
398	-0.20	-0.15	-0.16	-0.15	-0.15
399	-0.20	-0.15	-0.16	-0.15	-0.15
400	-0.20	-0.16	-0.16	-0.15	-0.15
401	-0.22	-0.17	-0.17	-0.17	-0.16
402	-0.22	-0.17	-0.17	-0.17	-0.16
403	-0.22	-0.16	-0.17	-0.17	-0.16
404	-0.22	-0.16	-0.17	-0.17	-0.16
405	-0.22	-0.16	-0.17	-0.17	-0.16
406	-0.22	-0.17	-0.17	-0.17	-0.16
407	-0.22	-0.17	-0.17	-0.17	-0.16
408	-0.23	-0.17	-0.17	-0.17	-0.16
409	-0.23	-0.18	-0.18	-0.18	-0.17
410	-0.23	-0.17	-0.17	-0.17	-0.16
411	-0.22	-0.17	-0.17	-0.17	-0.16
412	-0.22	-0.16	-0.17	-0.17	-0.16
413	-0.22	-0.16	-0.17	-0.17	-0.16
414	-0.22	-0.17	-0.17	-0.17	-0.16
415	-0.23	-0.17	-0.17	-0.17	-0.16
416	-0.23	-0.17	-0.17	-0.17	-0.16
417	-0.23	-0.17	-0.17	-0.17	-0.16
418	-0.22	-0.17	-0.17	-0.17	-0.16
419	-0.22	-0.16	-0.17	-0.17	-0.16
420	-0.22	-0.16	-0.17	-0.17	-0.16
421	-0.22	-0.16	-0.17	-0.17	-0.16
422	-0.22	-0.17	-0.17	-0.17	-0.16
423	-0.23	-0.17	-0.17	-0.17	-0.16
424	-0.23	-0.17	-0.17	-0.17	-0.16
425	-0.22	-0.17	-0.17	-0.17	-0.16
426	-0.22	-0.17	-0.17	-0.17	-0.16
427	-0.22	-0.16	-0.17	-0.17	-0.16
428	-0.22	-0.16	-0.17	-0.17	-0.16
429	-0.22	-0.16	-0.17	-0.17	-0.16
430	-0.22	-0.16	-0.17	-0.17	-0.16
431	-0.22	-0.17	-0.17	-0.17	-0.16
432	-0.22	-0.17	-0.17	-0.17	-0.16
433	-0.24	-0.18	-0.18	-0.18	-0.17
434	-0.23	-0.18	-0.18	-0.18	-0.17
435	-0.23	-0.18	-0.18	-0.18	-0.17
436	-0.24	-0.18	-0.18	-0.18	-0.17
437	-0.24	-0.18	-0.18	-0.18	-0.17
438	-0.24	-0.18	-0.18	-0.18	-0.17
439	-0.24	-0.18	-0.19	-0.18	-0.17
440	-0.24	-0.18	-0.18	-0.18	-0.17
441	-0.24	-0.18	-0.18	-0.18	-0.17
442	-0.24	-0.18	-0.18	-0.18	-0.17
443	-0.24	-0.18	-0.18	-0.18	-0.17
444	-0.24	-0.18	-0.18	-0.18	-0.17
445	-0.24	-0.18	-0.18	-0.19	-0.17
447	-0.24	-0.18	-0.19	-0.18	-0.17
448	-0.24	-0.18	-0.19	-0.18	-0.17
449	-0.23	-0.17	-0.18	-0.17	-0.17
450	-0.21	-0.16	-0.17	-0.16	-0.15
451	-0.19	-0.15	-0.15	-0.15	-0.14
452	-0.18	-0.14	-0.15	-0.14	-0.14
453	-0.17	-0.13	-0.14	-0.13	-0.13
454	-0.17	-0.13	-0.13	-0.13	-0.13
455	-0.17	-0.13	-0.13	-0.13	-0.13
456	-0.17	-0.13	-0.14	-0.13	-0.13
457	-0.18	-0.14	-0.14	-0.14	-0.13
458	-0.19	-0.15	-0.15	-0.14	-0.14
459	-0.20	-0.16	-0.16	-0.15	-0.15
460	-0.22	-0.17	-0.18	-0.17	-0.16
461	-0.24	-0.18	-0.19	-0.18	-0.17
462	-0.24	-0.18	-0.19	-0.18	-0.17
463	-0.23	-0.17	-0.18	-0.17	-0.17
464	-0.21	-0.16	-0.17	-0.16	-0.15
465	-0.19	-0.15	-0.16	-0.15	-0.14
466	-0.18	-0.14	-0.15	-0.14	-0.14
467	-0.17	-0.13	-0.14	-0.13	-0.13
468	-0.17	-0.13	-0.13	-0.13	-0.13

469	-0.17	-0.13	-0.13	-0.13	-0.13
470	-0.17	-0.13	-0.14	-0.13	-0.13
471	-0.18	-0.14	-0.14	-0.14	-0.13
472	-0.19	-0.15	-0.15	-0.14	-0.14
473	-0.20	-0.16	-0.16	-0.15	-0.15
474	-0.22	-0.17	-0.18	-0.17	-0.16
475	-0.25	-0.19	-0.20	-0.19	-0.18
476	-0.26	-0.19	-0.20	-0.20	-0.19
477	-0.26	-0.19	-0.20	-0.20	-0.19
478	-0.26	-0.19	-0.20	-0.20	-0.19
479	-0.25	-0.19	-0.20	-0.19	-0.18
480	-0.26	-0.19	-0.20	-0.20	-0.19
481	-0.26	-0.19	-0.20	-0.20	-0.19
482	-0.26	-0.19	-0.19	-0.20	-0.18
483	-0.26	-0.19	-0.19	-0.20	-0.18
484	-0.26	-0.19	-0.20	-0.20	-0.18
485	-0.26	-0.19	-0.20	-0.20	-0.19
486	-0.26	-0.19	-0.20	-0.20	-0.19
487	-0.26	-0.19	-0.20	-0.20	-0.19
488	-0.26	-0.19	-0.20	-0.20	-0.18
489	-0.25	-0.19	-0.20	-0.19	-0.18
490	-0.25	-0.19	-0.19	-0.19	-0.18
491	-0.25	-0.19	-0.19	-0.19	-0.18
492	-0.25	-0.19	-0.20	-0.19	-0.18
493	-0.25	-0.19	-0.20	-0.19	-0.18
494	-0.25	-0.19	-0.20	-0.19	-0.18
495	-0.25	-0.19	-0.19	-0.19	-0.18
496	-0.25	-0.19	-0.20	-0.19	-0.18
497	-0.26	-0.19	-0.20	-0.19	-0.18
498	-0.26	-0.19	-0.20	-0.20	-0.19
499	-0.25	-0.19	-0.20	-0.19	-0.18
500	-0.26	-0.19	-0.20	-0.20	-0.19
501	-0.26	-0.19	-0.20	-0.20	-0.18
502	-0.26	-0.19	-0.20	-0.20	-0.18
503	-0.26	-0.19	-0.19	-0.20	-0.18
504	-0.26	-0.19	-0.20	-0.20	-0.19
505	-0.26	-0.19	-0.20	-0.20	-0.19
506	-0.25	-0.20	-0.20	-0.19	-0.18
507	-0.25	-0.20	-0.20	-0.19	-0.18
508	-0.26	-0.19	-0.19	-0.20	-0.18
509	-0.26	-0.19	-0.20	-0.20	-0.18
510	-0.26	-0.19	-0.20	-0.20	-0.18
511	-0.26	-0.19	-0.20	-0.20	-0.19
512	-0.26	-0.19	-0.20	-0.20	-0.19
513	-0.26	-0.19	-0.20	-0.20	-0.19
514	-0.26	-0.19	-0.20	-0.20	-0.19
515	-0.26	-0.19	-0.20	-0.20	-0.18
516	-0.25	-0.19	-0.20	-0.19	-0.18
517	-0.25	-0.19	-0.19	-0.19	-0.18
518	-0.25	-0.19	-0.19	-0.19	-0.18
519	-0.25	-0.19	-0.20	-0.19	-0.18
520	-0.25	-0.19	-0.20	-0.19	-0.18
521	-0.25	-0.19	-0.20	-0.19	-0.18
522	-0.25	-0.19	-0.20	-0.19	-0.18
523	-0.25	-0.19	-0.20	-0.19	-0.18
524	-0.25	-0.19	-0.19	-0.19	-0.18
525	-0.25	-0.19	-0.20	-0.19	-0.18
526	-0.26	-0.19	-0.20	-0.19	-0.18
527	-0.26	-0.19	-0.20	-0.20	-0.19
528	-0.26	-0.19	-0.20	-0.20	-0.19
529	-0.25	-0.19	-0.20	-0.19	-0.18
530	-0.26	-0.19	-0.20	-0.20	-0.19
531	-0.26	-0.19	-0.20	-0.20	-0.19
532	-0.26	-0.19	-0.20	-0.20	-0.18
533	-0.26	-0.19	-0.19	-0.20	-0.18
534	-0.26	-0.19	-0.20	-0.20	-0.19
535	-0.26	-0.19	-0.20	-0.20	-0.19
536	-0.26	-0.19	-0.20	-0.20	-0.19
537	-0.26	-0.19	-0.20	-0.20	-0.19
538	-0.26	-0.19	-0.20	-0.20	-0.19
539	-0.25	-0.20	-0.20	-0.19	-0.18
540	-0.26	-0.20	-0.20	-0.19	-0.18

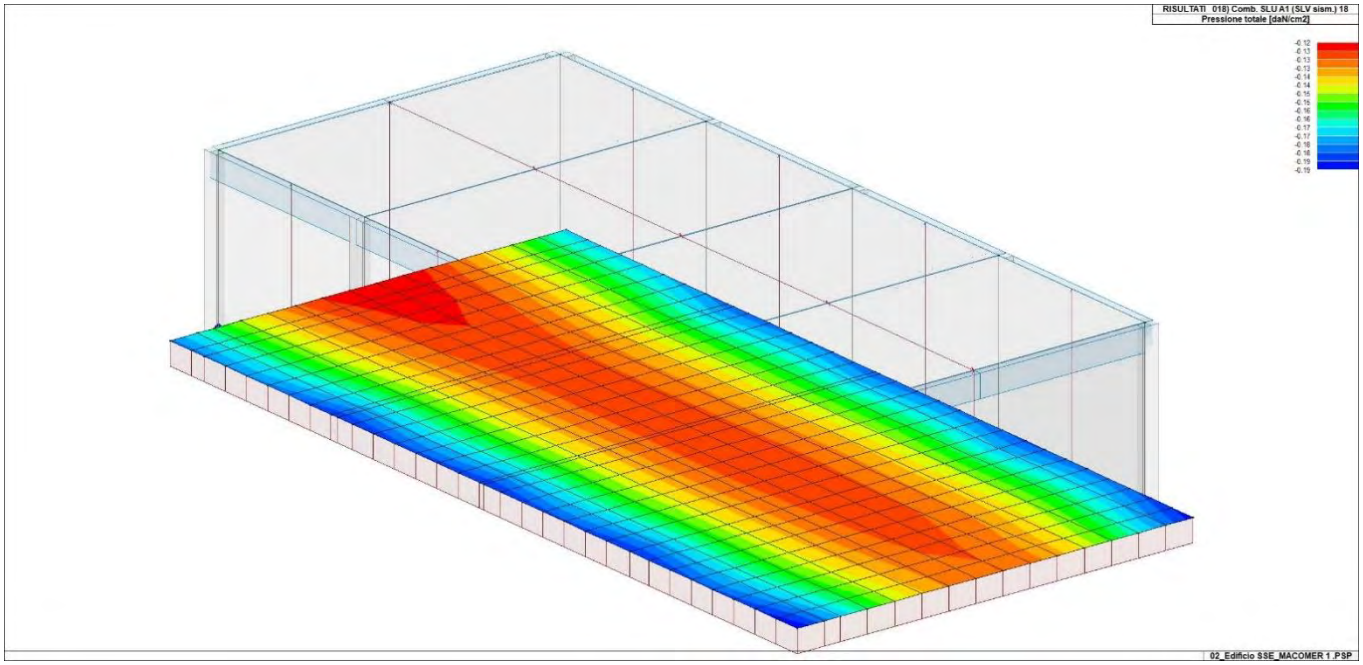
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...
	-0.26			
	-0.13			



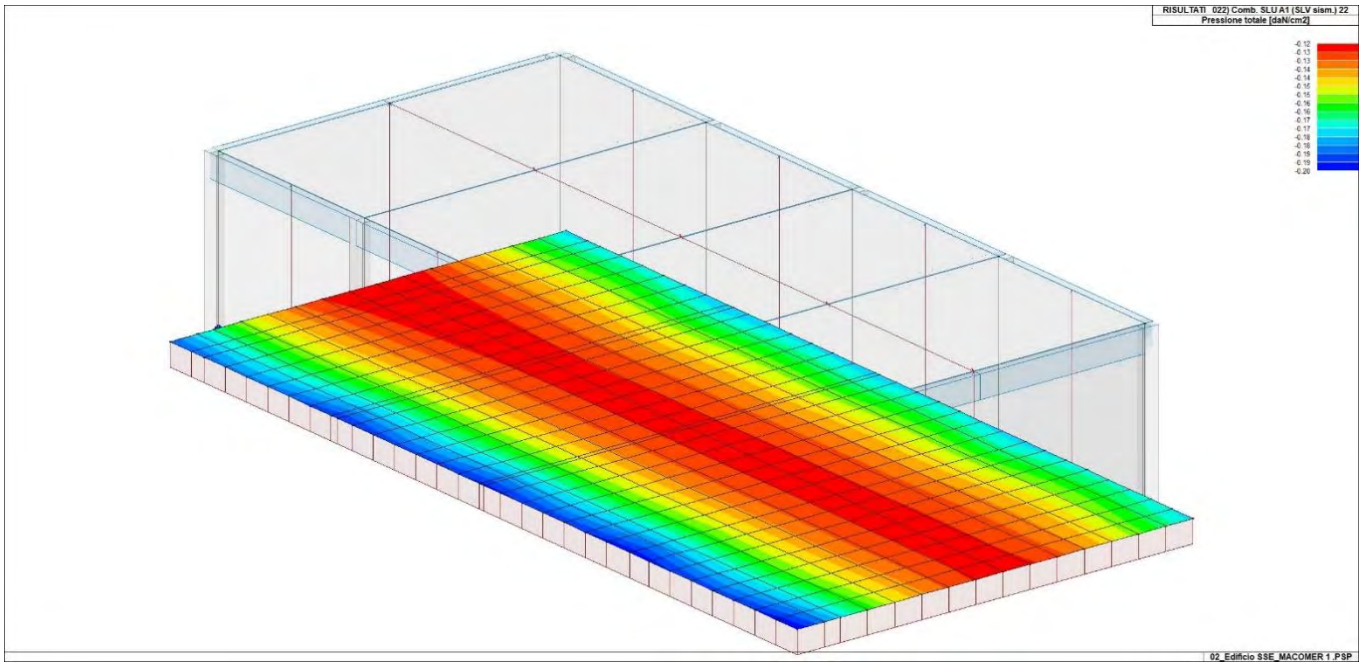
46_RIS_PRESSIONI_002_Comb. SLU A1 2



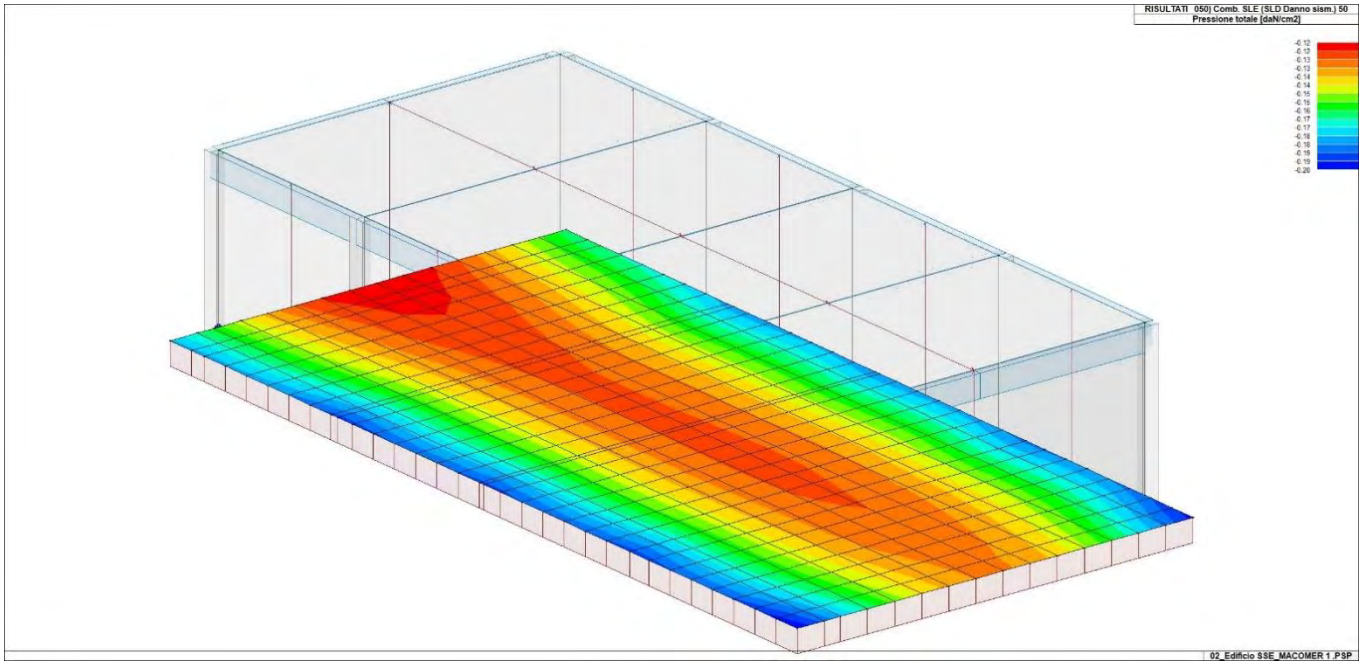
46_RIS_PRESSIONI_003_Comb. SLU A1 3



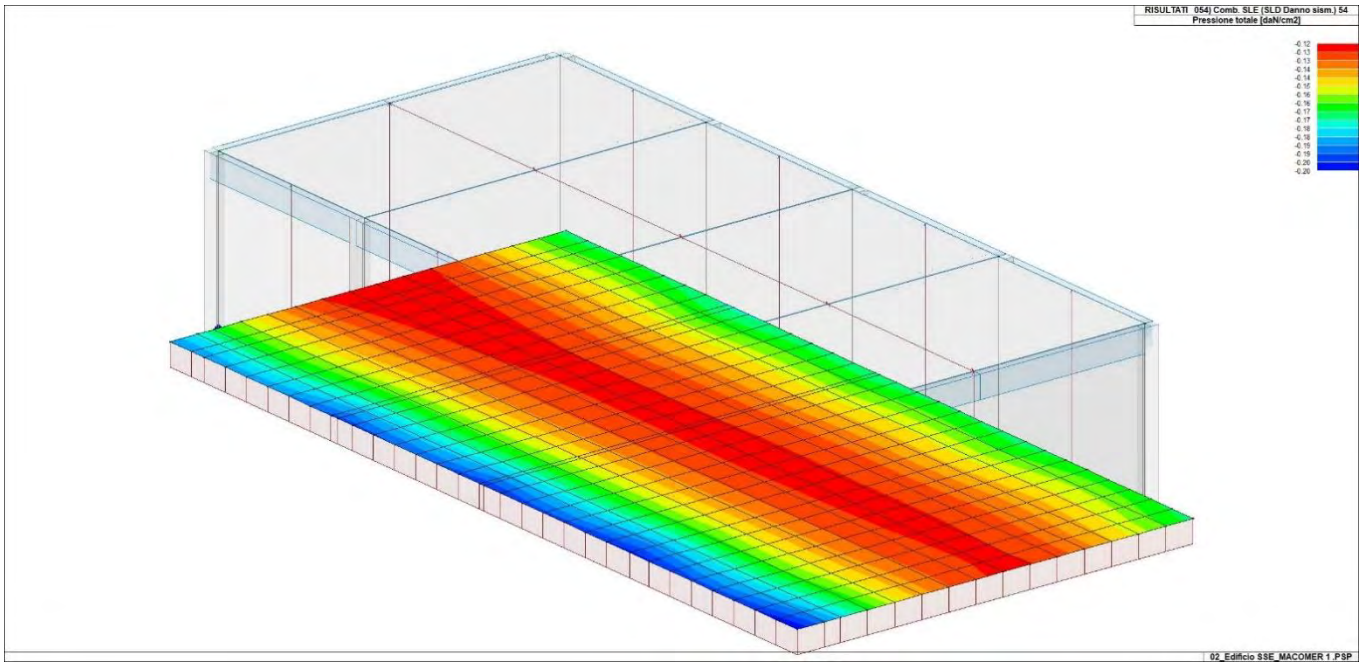
46_RIS_PRESSIONI_018_Comb. SLU A1 (SLV sism.) 18



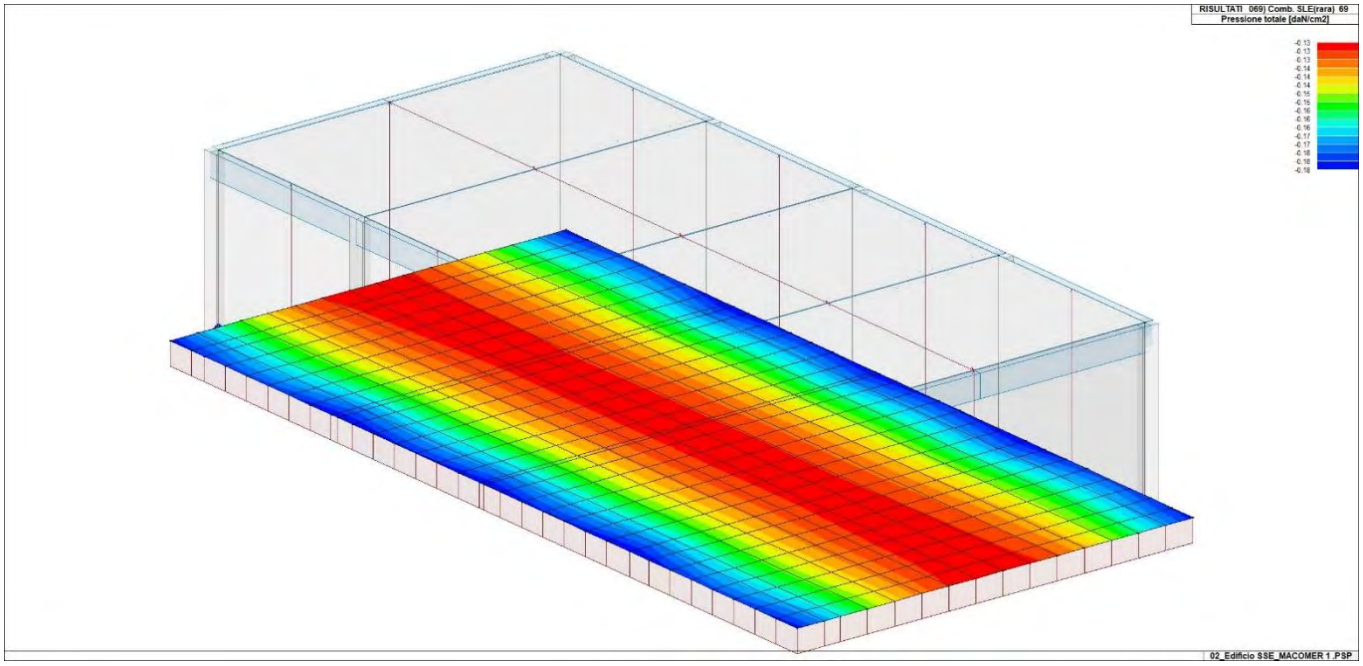
46_RIS_PRESSIONI_022_Comb. SLU A1 (SLV sism.) 22



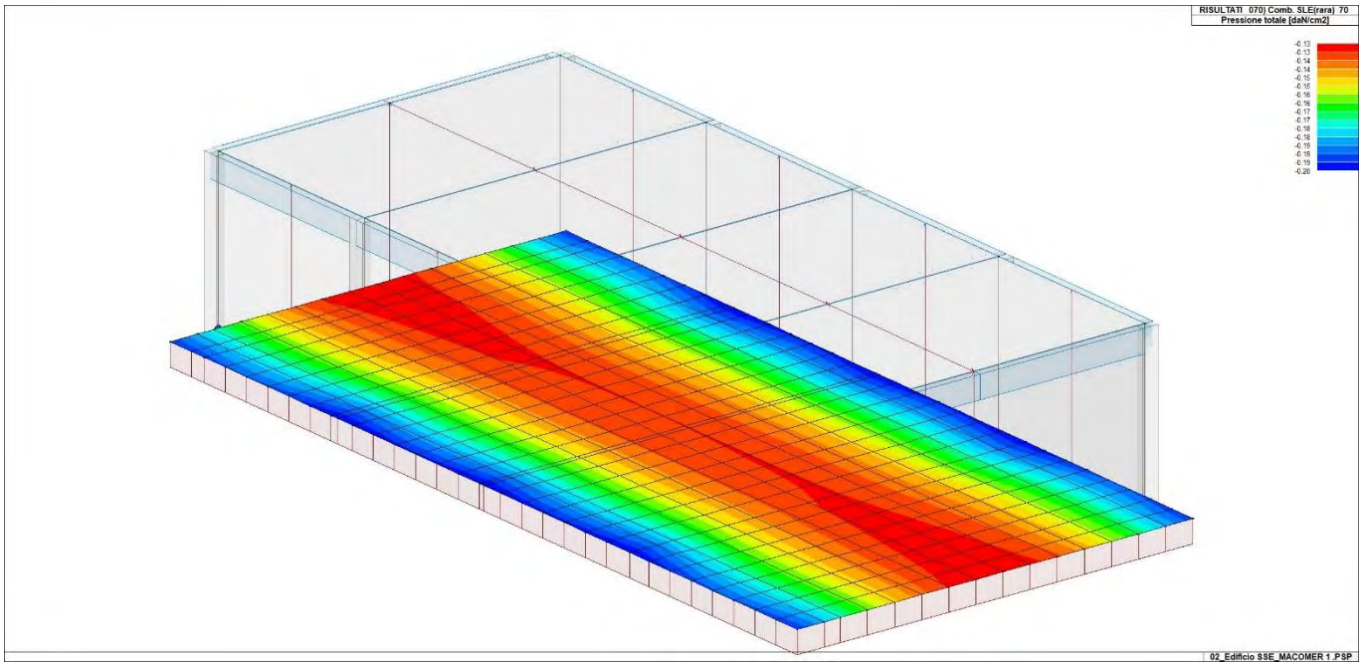
46_RIS_PRESSIONI_050_Comb. SLE (SLD Danno sism.) 50



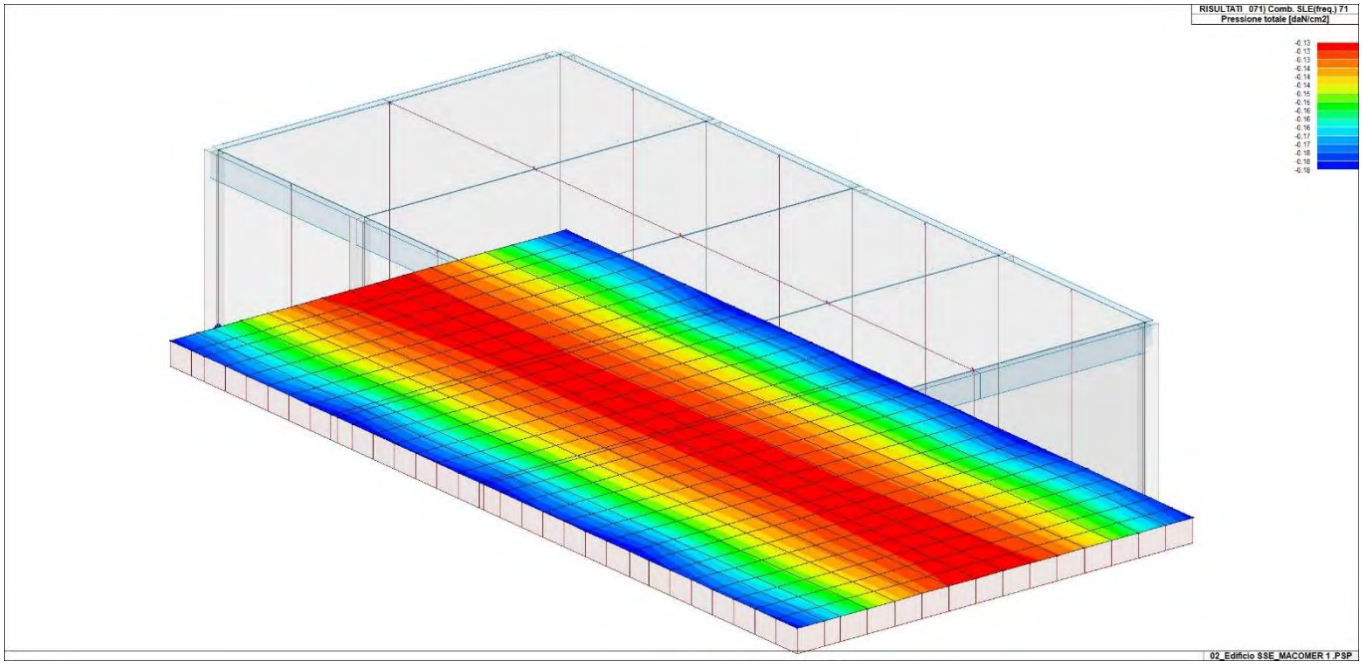
46_RIS_PRESSIONI_054_Comb. SLE (SLD Danno sism.) 54



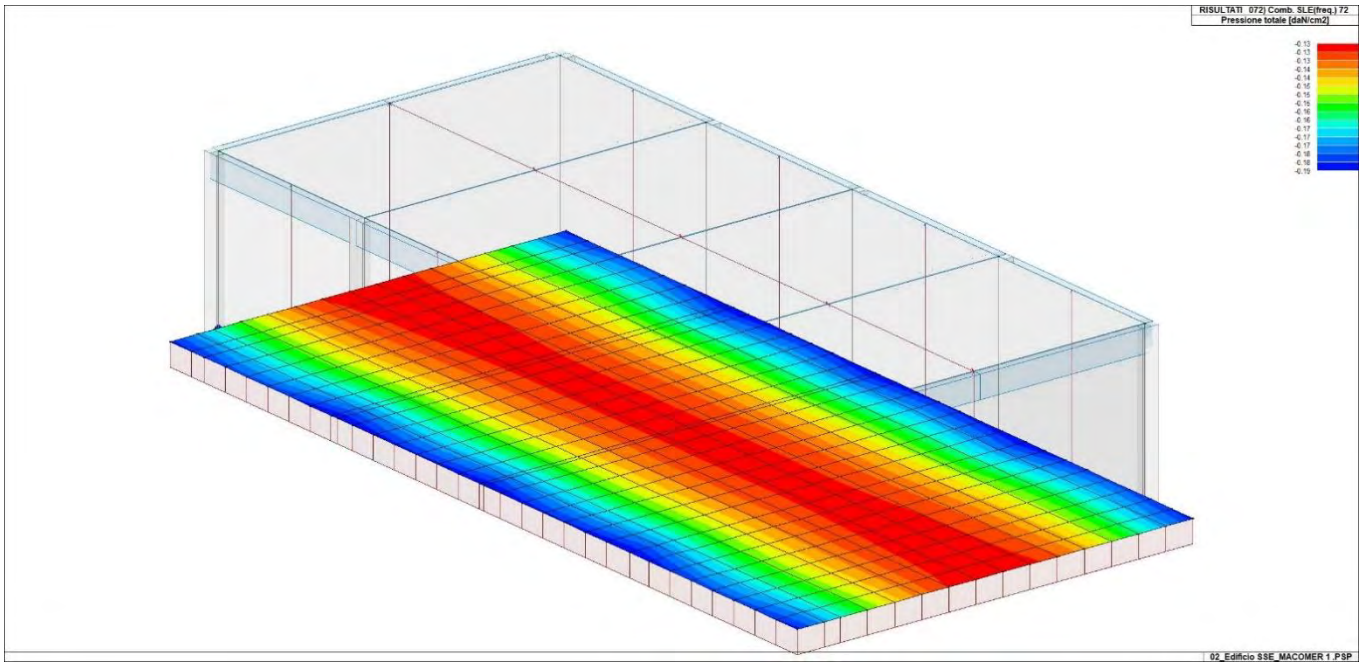
46_RIS_PRESSIONI_069_Comb. SLE(rara) 69



46_RIS_PRESSIONI_070_Comb. SLE(rara) 70



46_RIS_PRESSIONI_071_Comb. SLE(freq.) 71



46_RIS_PRESSIONI_072_Comb. SLE(freq.) 72

38. RISULTATI ELEMENTI TIPO TRAVE

38.1. LEGENDA RISULTATI ELEMENTI TIPO TRAVE

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo trave, è possibile in relazione alle tabelle sotto riportate.

Gli elementi vengono suddivisi in relazione alle proprietà in elementi:

- tipo **pilastro**
- tipo **trave in elevazione**
- tipo **trave in fondazione**

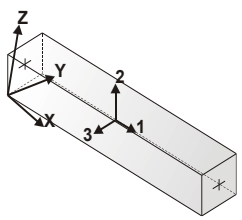
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

Per gli elementi tipo *pilastro* sono riportati in tabella i seguenti valori:

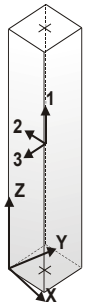
Pilas.	numero dell'elemento pilastro
Cmb	combinazione in cui si verificano i valori riportati
M3 mx/mn	momento flettente in campata M3 max (prima riga) / min (seconda riga)
M2 mx/mn	momento flettente in campata M2 max (prima riga) / min (seconda riga)
D2/D3	freccia massima in direzione 2 (prima riga) / direzione 3 (seconda riga)
Q2/Q3	carico totale in direzione 2 (prima riga) / direzione 3 (seconda riga)
Pos.	ascissa del punto iniziale e finale dell'elemento
N, V2, ecc..	sei componenti di sollecitazione al piede ed in sommità dell'elemento

Per gli elementi tipo *trave in elevazione* sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri.

Per gli elementi tipo *trave in fondazione* (trave f.) sono riportati, oltre al numero dell'elemento, i medesimi risultati visti per i pilastri e la massima pressione sul terreno.



orientamento elementi 2D non verticali



orientamento elementi 2D verticali

Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
1	2	2434.90	1.881e+04	3.09e-03	0.0	0.0	-4975.69	-73.50	-883.77	84.40	1.881e+04	2434.90
		-1.962e+04	-2.463e+05	0.04	0.0	300.0	-4098.19	-73.50	-883.77	84.40	-2.463e+05	-
1.962e+04												
1	3	-584.03	9609.81	2.21e-03	0.0	0.0	-3321.53	-36.73	-537.93	45.55	9609.81	-584.03
		-1.160e+04	-1.518e+05	0.03	0.0	300.0	-2646.53	-36.73	-537.93	45.55	-1.518e+05	-
1.160e+04												
1	4	2900.91	1.604e+04	2.42e-03	0.0	0.0	-3973.26	-64.21	-721.10	70.62	1.604e+04	2900.91
		-1.636e+04	-2.003e+05	0.03	0.0	300.0	-3298.26	-64.21	-721.10	70.62	-2.003e+05	-
1.636e+04												
1	9	2.951e+04	2449.18	-0.05	0.0	0.0	-3065.09	256.30	-490.77	-709.52	2449.18	-
4.738e+04												
		-4.738e+04	-1.450e+05	-0.03	0.0	300.0	-2390.09	256.30	-490.77	-709.52	-1.450e+05	2.951e+04
1	11	4.792e+04	-1.323e+04	0.05	0.0	0.0	-3499.11	-340.24	-403.83	1683.86	-1.323e+04	4.792e+04
		-5.415e+04	-1.342e+05	-0.04	0.0	300.0	-2824.11	-340.24	-403.83	1683.86	-1.342e+05	-
5.415e+04												
1	12	4.596e+04	1.667e+04	0.05	0.0	0.0	-3583.17	-328.26	-586.22	800.73	1.667e+04	4.596e+04
		-5.251e+04	-1.590e+05	0.03	0.0	300.0	-2908.17	-328.26	-586.22	800.73	-1.590e+05	-
5.251e+04												
1	30	3774.33	6.175e+04	-0.02	0.0	0.0	-3399.13	73.48	-855.51	-1785.29	6.175e+04	-
1.827e+04												
		-1.827e+04	-1.950e+05	0.06	0.0	300.0	-2724.13	73.48	-855.51	-1785.29	-1.950e+05	3774.33
1	36	5504.35	5.776e+04	7.47e-03	0.0	0.0	-3516.12	-75.04	-831.58	-734.98	5.776e+04	5504.35
		-1.700e+04	-1.950e+05	0.06	0.0	300.0	-2841.12	-75.04	-831.58	-734.98	-1.950e+05	-
1.700e+04												
1	41	5.374e+04	-1789.18	-0.08	0.0	0.0	-2915.56	428.98	-461.82	-1098.13	-1789.18	-
7.496e+04												
		-7.496e+04	-1.405e+05	-0.04	0.0	300.0	-2240.56	428.98	-461.82	-1098.13	-1.405e+05	5.374e+04
1	43	7.662e+04	-2.653e+04	0.07	0.0	0.0	-3599.53	-519.76	-325.84	2572.49	-2.653e+04	7.662e+04
		-7.931e+04	-1.241e+05	-0.05	0.0	300.0	-2924.53	-519.76	-325.84	2572.49	-1.241e+05	-
7.931e+04												
1	44	7.353e+04	2.091e+04	0.07	0.0	0.0	-3732.71	-500.94	-615.17	1189.34	2.091e+04	7.353e+04
		-7.675e+04	-1.634e+05	0.04	0.0	300.0	-3057.71	-500.94	-615.17	1189.34	-1.634e+05	-
7.675e+04												
1	62	1.273e+04	9.233e+04	-0.03	0.0	0.0	-3443.51	137.69	-1041.10	-2810.25	9.233e+04	-
2.859e+04												
		-2.859e+04	-2.201e+05	0.08	0.0	300.0	-2768.51	137.69	-1041.10	-2810.25	-2.201e+05	1.273e+04
1	68	9180.07	8.607e+04	0.01	0.0	0.0	-3627.38	-98.19	-1003.61	-1168.68	8.607e+04	9180.07
		-2.027e+04	-2.203e+05	0.09	0.0	300.0	-2952.38	-98.19	-1003.61	-1168.68	-2.203e+05	-
2.027e+04												
1	69	-710.46	9560.28	2.22e-03	0.0	0.0	-3324.13	-35.98	-538.49	45.60	9560.28	-710.46
		-1.150e+04	-1.520e+05	0.03	0.0	300.0	-2649.13	-35.98	-538.49	45.60	-1.520e+05	-
1.150e+04												
1	70	1612.83	1.385e+04	2.35e-03	0.0	0.0	-3758.61	-54.30	-660.61	62.31	1.385e+04	1612.83
		-1.468e+04	-1.843e+05	0.03	0.0	300.0	-3083.61	-54.30	-660.61	62.31	-1.843e+05	-
1.468e+04												
1	71	-710.46	9560.28	2.22e-03	0.0	0.0	-3324.13	-35.98	-538.49	45.60	9560.28	-710.46
		-1.150e+04	-1.520e+05	0.03	0.0	300.0	-2649.13	-35.98	-538.49	45.60	-1.520e+05	-
1.150e+04												
1	72	-245.80	1.042e+04	2.24e-03	0.0	0.0	-3411.03	-39.64	-562.92	48.94	1.042e+04	-245.80
		-1.214e+04	-1.585e+05	0.03	0.0	300.0	-2736.03	-39.64	-562.92	48.94	-1.585e+05	-
1.214e+04												
2	2	2711.46	2.463e+05	3.07e-03	0.0	0.0	-4975.63	-74.76	884.28	-131.06	-1.897e+04	2711.46
		-1.972e+04	-1.897e+04	-0.04	0.0	300.0	-4098.13	-74.76	884.28	-131.06	2.463e+05	-
1.972e+04												
2	3	-398.41	1.518e+05	2.19e-03	0.0	0.0	-3321.51	-37.59	538.23	-76.39	-9708.54	-398.41
		-1.167e+04	-9708.54	-0.03	0.0	300.0	-2646.51	-37.59	538.23	-76.39	1.518e+05	-
1.167e+04												
2	4	3125.28	2.003e+05	2.39e-03	0.0	0.0	-3973.21	-65.24	721.52	-108.36	-1.617e+04	3125.28
		-1.645e+04	-1.617e+04	-0.03	0.0	300.0	-3298.21	-65.24	721.52	-108.36	2.003e+05	-
1.645e+04												
2	18	2.937e+04	1.449e+05	-0.05	0.0	0.0	-3064.92	255.43	490.72	703.52	-2484.11	-
4.726e+04												
		-4.726e+04	-2484.11	0.03	0.0	300.0	-2389.92	255.43	490.72	703.52	1.449e+05	2.937e+04
2	19	4.620e+04	1.591e+05	0.04	0.0	0.0	-3583.29	-329.08	586.87	-856.12	-1.683e+04	4.620e+04
		-5.252e+04	-1.683e+04	-0.03	0.0	300.0	-2908.29	-329.08	586.87	-856.12	1.591e+05	-
5.252e+04												
2	20	4.815e+04	1.342e+05	0.05	0.0	0.0	-3498.97	-341.00	404.07	-1738.35	1.315e+04	4.815e+04
		-5.415e+04	1.315e+04	0.04	0.0	300.0	-2823.97	-341.00	404.07	-1738.35	1.342e+05	-
5.415e+04												
2	31	5691.72	1.951e+05	7.36e-03	0.0	0.0	-3516.04	-75.81	832.74	694.02	-5.802e+04	5691.72
		-1.705e+04	-5.802e+04	-0.06	0.0	300.0	-2841.04	-75.81	832.74	694.02	1.951e+05	-
1.705e+04												

2	33	3672.76	1.950e+05	-0.02	0.0	0.0	-3399.53	72.51	856.46	1760.38	-6.197e+04	-
1.808e+04												
		-1.808e+04	-6.197e+04	-0.06	0.0	300.0	-2724.53	72.51	856.46	1760.38	1.950e+05	3672.76
2	50	5.356e+04	1.405e+05	-0.08	0.0	0.0	-2916.20	428.07	461.70	1113.17	1776.03	-
7.486e+04												
		-7.486e+04	1776.03	0.04	0.0	300.0	-2241.20	428.07	461.70	1113.17	1.405e+05	5.356e+04
2	51	7.380e+04	1.635e+05	0.07	0.0	0.0	-3732.01	-501.72	615.88	-1265.77	-2.109e+04	7.380e+04
		-7.671e+04	-2.109e+04	-0.04	0.0	300.0	-3057.01	-501.72	615.88	-1265.77	1.635e+05	-
7.671e+04												
2	52	7.687e+04	1.240e+05	0.07	0.0	0.0	-3598.90	-520.48	325.95	-2643.67	2.646e+04	7.687e+04
		-7.927e+04	2.646e+04	0.05	0.0	300.0	-2923.90	-520.48	325.95	-2643.67	1.240e+05	-
7.927e+04												
2	63	9353.01	2.203e+05	0.01	0.0	0.0	-3626.68	-98.80	1005.20	1115.01	-8.641e+04	9353.01
		-2.028e+04	-8.641e+04	-0.09	0.0	300.0	-2951.68	-98.80	1005.20	1115.01	2.203e+05	-
2.028e+04												
2	65	1.262e+04	2.202e+05	-0.03	0.0	0.0	-3443.55	136.73	1042.39	2783.74	-9.262e+04	-
2.840e+04												
		-2.840e+04	-9.262e+04	-0.08	0.0	300.0	-2768.55	136.73	1042.39	2783.74	2.202e+05	1.262e+04
2	69	-526.36	1.520e+05	2.20e-03	0.0	0.0	-3324.11	-36.82	538.79	-76.30	-9659.06	-526.36
		-1.157e+04	-9659.06	-0.03	0.0	300.0	-2649.11	-36.82	538.79	-76.30	1.520e+05	-
1.157e+04												
2	70	1822.76	1.843e+05	2.33e-03	0.0	0.0	-3758.57	-55.26	660.98	-97.61	-1.397e+04	1822.76
		-1.475e+04	-1.397e+04	-0.03	0.0	300.0	-3083.57	-55.26	660.98	-97.61	1.843e+05	-
1.475e+04												
2	71	-526.36	1.520e+05	2.20e-03	0.0	0.0	-3324.11	-36.82	538.79	-76.30	-9659.06	-526.36
		-1.157e+04	-9659.06	-0.03	0.0	300.0	-2649.11	-36.82	538.79	-76.30	1.520e+05	-
1.157e+04												
2	72	-56.54	1.584e+05	2.23e-03	0.0	0.0	-3411.00	-40.51	563.23	-80.56	-1.052e+04	-56.54
		-1.221e+04	-1.052e+04	-0.03	0.0	300.0	-2736.00	-40.51	563.23	-80.56	1.584e+05	-
1.221e+04												
4	2	5033.30	9.437e+04	-5.42e-04	0.0	0.0	-9978.53	-27.33	-1804.89	-74.20	9.437e+04	5033.30
		-3165.43	-4.471e+05	0.06	0.0	300.0	-9101.03	-27.33	-1804.89	-74.20	-4.471e+05	-3165.43
4	3	1629.99	5.221e+04	-3.05e-04	0.0	0.0	-6303.35	-5.86	-1051.11	-42.49	5.221e+04	1629.99
		-129.33	-2.631e+05	0.04	0.0	300.0	-5628.35	-5.86	-1051.11	-42.49	-2.631e+05	-129.33
4	4	4708.92	7.870e+04	-4.68e-04	0.0	0.0	-8066.01	-26.68	-1485.90	-61.21	7.870e+04	4708.92
		-3295.47	-3.671e+05	0.05	0.0	300.0	-7391.01	-26.68	-1485.90	-61.21	-3.671e+05	-3295.47
4	5	5.675e+04	4.264e+04	-0.05	0.0	0.0	-6285.24	381.96	-994.35	1514.15	4.264e+04	-
5.784e+04												
		-5.784e+04	-2.557e+05	-0.04	0.0	300.0	-5610.24	381.96	-994.35	1514.15	-2.557e+05	5.675e+04
4	8	6.096e+04	6.179e+04	0.05	0.0	0.0	-6340.17	-392.73	-1111.05	-1599.34	6.179e+04	6.096e+04
		-5.686e+04	-2.715e+05	0.04	0.0	300.0	-5665.17	-392.73	-1111.05	-1599.34	-2.715e+05	-
5.686e+04												
4	30	2.009e+04	1.202e+05	-0.02	0.0	0.0	-6545.56	131.81	-1463.49	-506.06	1.202e+05	-
1.946e+04												
		-1.946e+04	-3.189e+05	0.08	0.0	300.0	-5870.56	131.81	-1463.49	-506.06	-3.189e+05	2.009e+04
4	31	2.257e+04	-1.574e+04	0.02	0.0	0.0	-6079.85	-142.58	-641.90	420.87	-1.574e+04	2.257e+04
		-2.020e+04	-2.083e+05	-0.10	0.0	300.0	-5404.85	-142.58	-641.90	420.87	-2.083e+05	-
2.020e+04												
4	34	1.479e+04	1.201e+05	-0.01	0.0	0.0	-6542.78	95.66	-1463.50	-620.99	1.201e+05	-
1.390e+04												
		-1.390e+04	-3.189e+05	0.08	0.0	300.0	-5867.78	95.66	-1463.50	-620.99	-3.189e+05	1.479e+04
4	37	9.029e+04	3.694e+04	-0.08	0.0	0.0	-6271.35	610.66	-959.44	2421.82	3.694e+04	-
9.291e+04												
		-9.291e+04	-2.509e+05	-0.05	0.0	300.0	-5596.35	610.66	-959.44	2421.82	-2.509e+05	9.029e+04
4	40	9.603e+04	6.749e+04	0.08	0.0	0.0	-6354.06	-621.42	-1145.95	-2507.01	6.749e+04	9.603e+04
		-9.040e+04	-2.763e+05	0.05	0.0	300.0	-5679.06	-621.42	-1145.95	-2507.01	-2.763e+05	-
9.040e+04												
4	62	3.192e+04	1.602e+05	-0.03	0.0	0.0	-6674.02	212.41	-1705.72	-710.17	1.602e+05	-
3.180e+04												
		-3.180e+04	-3.515e+05	0.11	0.0	300.0	-5999.02	212.41	-1705.72	-710.17	-3.515e+05	3.192e+04
4	63	3.492e+04	-5.582e+04	0.03	0.0	0.0	-5951.39	-223.18	-399.68	624.98	-5.582e+04	3.492e+04
		-3.203e+04	-1.757e+05	-0.14	0.0	300.0	-5276.39	-223.18	-399.68	624.98	-1.757e+05	-
3.203e+04												
4	66	2.345e+04	1.602e+05	-0.02	0.0	0.0	-6669.36	154.56	-1705.75	-899.03	1.602e+05	-
2.292e+04												
		-2.292e+04	-3.516e+05	0.11	0.0	300.0	-5994.36	154.56	-1705.75	-899.03	-3.516e+05	2.345e+04
4	69	1558.42	5.221e+04	-3.03e-04	0.0	0.0	-6312.71	-5.38	-1052.70	-42.60	5.221e+04	1558.42
		-55.92	-2.636e+05	0.04	0.0	300.0	-5637.71	-5.38	-1052.70	-42.60	-2.636e+05	-55.92
4	70	3611.04	6.987e+04	-4.01e-04	0.0	0.0	-7487.81	-19.26	-1342.56	-55.08	6.987e+04	3611.04
		-2166.68	-3.329e+05	0.05	0.0	300.0	-6812.81	-19.26	-1342.56	-55.08	-3.329e+05	-2166.68
4	71	1558.42	5.221e+04	-3.03e-04	0.0	0.0	-6312.71	-5.38	-1052.70	-42.60	5.221e+04	1558.42
		-55.92	-2.636e+05	0.04	0.0	300.0	-5637.71	-5.38	-1052.70	-42.60	-2.636e+05	-55.92
4	72	1968.94	5.575e+04	-3.18e-04	0.0	0.0	-6547.73	-8.16	-1110.67	-45.09	5.575e+04	1968.94
		-478.07	-2.775e+05	0.04	0.0	300.0	-5872.73	-8.16	-1110.67	-45.09	-2.775e+05	-478.07
6	2	4910.95	4.470e+05	-5.29e-04	0.0	0.0	-9978.45	-26.72	1804.16	79.70	-9.422e+04	4910.95
		-3106.08	-9.422e+04	-0.06	0.0	300.0	-9100.95	-26.72	1804.16	79.70	4.470e+05	-3106.08

6	3	1558.64	2.631e+05	-2.98e-04	0.0	0.0	-6303.28	-5.51	1050.67	46.30	-5.213e+04	1558.64
		-95.29	-5.213e+04	-0.04	0.0	300.0	-5628.28	-5.51	1050.67	46.30	2.631e+05	-95.29
6	4	4609.71	3.670e+05	-4.58e-04	0.0	0.0	-8065.95	-26.19	1485.30	65.39	-7.858e+04	4609.71
		-3247.51	-7.858e+04	-0.05	0.0	300.0	-7390.95	-26.19	1485.30	65.39	3.670e+05	-3247.51
6	14	5.666e+04	2.557e+05	-0.05	0.0	0.0	-6285.20	381.85	994.57	-1488.26	-4.266e+04	-5.789e+04
		-5.789e+04	-4.266e+04	0.04	0.0	300.0	-5610.20	381.85	994.57	-1488.26	2.557e+05	5.666e+04
6	15	6.086e+04	2.714e+05	0.05	0.0	0.0	-6340.08	-391.90	1109.96	1581.22	-6.159e+04	6.086e+04
		-5.671e+04	-6.159e+04	-0.04	0.0	300.0	-5665.08	-391.90	1109.96	1581.22	2.714e+05	-5.671e+04
6	33	2.012e+04	3.189e+05	-0.02	0.0	0.0	-6545.26	132.23	1463.38	509.33	-1.201e+05	-1.955e+04
		-1.955e+04	-1.201e+05	-0.08	0.0	300.0	-5870.26	132.23	1463.38	509.33	3.189e+05	2.012e+04
6	36	2.252e+04	2.082e+05	0.02	0.0	0.0	-6080.02	-142.28	641.15	-416.37	1.589e+04	2.252e+04
		-2.016e+04	1.589e+04	0.10	0.0	300.0	-5405.02	-142.28	641.15	-416.37	2.082e+05	-2.016e+04
6	46	9.013e+04	2.510e+05	-0.08	0.0	0.0	-6271.59	610.25	960.10	-2383.05	-3.702e+04	-9.295e+04
		-9.295e+04	-3.702e+04	0.05	0.0	300.0	-5596.59	610.25	960.10	-2383.05	2.510e+05	9.013e+04
6	47	9.592e+04	2.761e+05	0.08	0.0	0.0	-6353.68	-620.30	1144.43	2476.01	-6.723e+04	9.592e+04
		-9.017e+04	-6.723e+04	-0.05	0.0	300.0	-5678.68	-620.30	1144.43	2476.01	2.761e+05	-9.017e+04
6	65	3.195e+04	3.515e+05	-0.03	0.0	0.0	-6673.83	212.88	1705.80	714.72	-1.603e+05	-3.191e+04
		-3.191e+04	-1.603e+05	-0.11	0.0	300.0	-5998.83	212.88	1705.80	714.72	3.515e+05	3.195e+04
6	68	3.488e+04	1.756e+05	0.03	0.0	0.0	-5951.45	-222.93	398.73	-621.76	5.600e+04	3.488e+04
		-3.200e+04	5.600e+04	0.14	0.0	300.0	-5276.45	-222.93	398.73	-621.76	1.756e+05	-3.200e+04
6	69	1486.31	2.636e+05	-2.95e-04	0.0	0.0	-6312.64	-5.03	1052.27	46.48	-5.213e+04	1486.31
		-21.37	-5.213e+04	-0.04	0.0	300.0	-5637.64	-5.03	1052.27	46.48	2.636e+05	-21.37
6	70	3520.36	3.328e+05	-3.92e-04	0.0	0.0	-7487.75	-18.81	1342.02	59.21	-6.977e+04	3520.36
		-2122.85	-6.977e+04	-0.05	0.0	300.0	-6812.75	-18.81	1342.02	59.21	3.328e+05	-2122.85
6	71	1486.31	2.636e+05	-2.95e-04	0.0	0.0	-6312.64	-5.03	1052.27	46.48	-5.213e+04	1486.31
		-21.37	-5.213e+04	-0.04	0.0	300.0	-5637.64	-5.03	1052.27	46.48	2.636e+05	-21.37
6	72	1893.12	2.774e+05	-3.11e-04	0.0	0.0	-6547.66	-7.78	1110.22	49.03	-5.565e+04	1893.12
		-441.67	-5.565e+04	-0.04	0.0	300.0	-5872.66	-7.78	1110.22	49.03	2.774e+05	-441.67
10	2	113.39	8.324e+04	6.29e-05	0.0	0.0	-8780.15	1.03	-1677.97	-171.77	8.324e+04	-196.98
		-196.98	-4.202e+05	0.06	0.0	300.0	-7902.65	1.03	-1677.97	-171.77	-4.202e+05	113.39
10	3	71.15	4.620e+04	4.01e-05	0.0	0.0	-5590.30	0.66	-981.51	-98.17	4.620e+04	-128.26
		-128.26	-2.483e+05	0.04	0.0	300.0	-4915.30	0.66	-981.51	-98.17	-2.483e+05	71.15
10	5	5.887e+04	2.870e+04	-0.05	0.0	0.0	-5541.71	403.90	-877.09	84.06	2.870e+04	-6.230e+04
		-6.230e+04	-2.344e+05	-0.05	0.0	300.0	-4866.71	403.90	-877.09	84.06	-2.344e+05	5.887e+04
10	8	6.204e+04	6.365e+04	0.05	0.0	0.0	-5653.69	-402.57	-1088.68	-280.52	6.365e+04	6.204e+04
		-5.873e+04	-2.629e+05	0.05	0.0	300.0	-4978.69	-402.57	-1088.68	-280.52	-2.629e+05	5.873e+04
10	22	1.338e+04	1.039e+05	-0.01	0.0	0.0	-5790.83	92.11	-1332.08	-2452.95	1.039e+05	-1.425e+04
		-1.425e+04	-2.958e+05	0.07	0.0	300.0	-5115.83	92.11	-1332.08	-2452.95	-2.958e+05	1.338e+04
10	23	1.400e+04	-1.152e+04	0.01	0.0	0.0	-5404.57	-90.79	-633.69	2256.49	-1.152e+04	1.400e+04
		-1.324e+04	-2.016e+05	-0.09	0.0	300.0	-4729.57	-90.79	-633.69	2256.49	-2.016e+05	-1.324e+04
10	24	2.230e+04	1.040e+05	0.02	0.0	0.0	-5789.76	-144.95	-1332.65	-2164.44	1.040e+05	2.230e+04
		-2.119e+04	-2.958e+05	0.07	0.0	300.0	-5114.76	-144.95	-1332.65	-2164.44	-2.958e+05	-2.119e+04
10	37	9.359e+04	1.841e+04	-0.08	0.0	0.0	-5510.46	641.97	-814.82	206.80	1.841e+04	-9.900e+04
		-9.900e+04	-2.260e+05	-0.06	0.0	300.0	-4835.46	641.97	-814.82	206.80	-2.260e+05	9.359e+04
10	40	9.875e+04	7.394e+04	0.08	0.0	0.0	-5684.94	-640.64	-1150.95	-403.27	7.394e+04	9.875e+04
		-9.345e+04	-2.713e+05	0.05	0.0	300.0	-5009.94	-640.64	-1150.95	-403.27	-2.713e+05	-9.345e+04
10	54	2.127e+04	1.379e+05	-0.02	0.0	0.0	-5895.67	146.30	-1538.16	-3829.06	1.379e+05	-2.262e+04
		-2.262e+04	-3.235e+05	0.10	0.0	300.0	-5220.67	146.30	-1538.16	-3829.06	-3.235e+05	2.127e+04
10	55	2.237e+04	-4.557e+04	0.02	0.0	0.0	-5299.72	-144.97	-427.61	3632.60	-4.557e+04	2.237e+04
		-2.112e+04	-1.739e+05	-0.12	0.0	300.0	-4624.72	-144.97	-427.61	3632.60	-1.739e+05	-2.112e+04
10	56	3.552e+04	1.381e+05	0.03	0.0	0.0	-5894.49	-230.76	-1538.98	-3380.87	1.381e+05	3.552e+04
		-3.371e+04	-3.236e+05	0.10	0.0	300.0	-5219.49	-230.76	-1538.98	-3380.87	-3.236e+05	-3.371e+04
10	69	71.10	4.618e+04	4.01e-05	0.0	0.0	-5597.70	0.66	-982.88	-98.23	4.618e+04	-128.16
		-128.16	-2.487e+05	0.04	0.0	300.0	-4922.70	0.66	-982.88	-98.23	-2.487e+05	71.10
10	70	85.11	6.166e+04	4.73e-05	0.0	0.0	-6594.86	0.78	-1248.78	-127.57	6.166e+04	-148.47
		-148.47	-3.130e+05	0.05	0.0	300.0	-5919.86	0.78	-1248.78	-127.57	-3.130e+05	85.11
10	71	71.10	4.618e+04	4.01e-05	0.0	0.0	-5597.70	0.66	-982.88	-98.23	4.618e+04	-128.16
		-128.16	-2.487e+05	0.04	0.0	300.0	-4922.70	0.66	-982.88	-98.23	-2.487e+05	71.10

10	72	73.90	4.927e+04	4.15e-05	0.0	0.0	-5797.13	0.69	-1036.06	-104.10	4.927e+04	-132.22
		-132.22	-2.615e+05	0.04	0.0	300.0	-5122.13	0.69	-1036.06	-104.10	-2.615e+05	73.90
12	2	141.40	4.201e+05	5.89e-05	0.0	0.0	-8779.55	1.22	1677.89	140.81	-8.324e+04	-226.10
		-226.10	-8.324e+04	-0.06	0.0	300.0	-7902.05	1.22	1677.89	140.81	4.201e+05	141.40
12	3	88.43	2.482e+05	3.84e-05	0.0	0.0	-5589.96	0.79	981.45	80.71	-4.620e+04	-148.80
		-148.80	-4.620e+04	-0.04	0.0	300.0	-4914.96	0.79	981.45	80.71	2.482e+05	88.43
12	17	5.876e+04	2.626e+05	-0.05	0.0	0.0	-5658.99	403.45	1086.56	-95.47	-6.332e+04	-6.228e+04
		-6.228e+04	-6.332e+04	-0.05	0.0	300.0	-4983.99	403.45	1086.56	-95.47	2.626e+05	5.876e+04
12	20	6.198e+04	2.347e+05	0.05	0.0	0.0	-5535.72	-401.87	879.10	257.00	-2.904e+04	6.198e+04
		-5.858e+04	-2.904e+04	0.05	0.0	300.0	-4860.72	-401.87	879.10	257.00	2.347e+05	-5.858e+04
12	27	2.226e+04	2.958e+05	0.02	0.0	0.0	-5787.27	-144.55	1332.77	2142.90	-1.040e+05	2.226e+04
		-2.111e+04	-1.040e+05	-0.07	0.0	300.0	-5112.27	-144.55	1332.77	2142.90	2.958e+05	-2.111e+04
12	29	1.596e+04	2.957e+05	-0.01	0.0	0.0	-5790.40	109.45	1331.64	-1916.93	-1.038e+05	-1.687e+04
		-1.687e+04	-1.038e+05	-0.07	0.0	300.0	-5115.40	109.45	1331.64	-1916.93	2.957e+05	1.596e+04
12	32	1.657e+04	2.017e+05	0.01	0.0	0.0	-5404.31	-107.86	634.02	2078.46	1.148e+04	1.657e+04
		-1.578e+04	1.148e+04	0.09	0.0	300.0	-4729.31	-107.86	634.02	2078.46	2.017e+05	-1.578e+04
12	49	9.339e+04	2.709e+05	-0.08	0.0	0.0	-5690.93	641.16	1147.89	-213.53	-7.345e+04	-9.895e+04
		-9.895e+04	-7.345e+04	-0.05	0.0	300.0	-5015.93	641.16	1147.89	-213.53	2.709e+05	9.339e+04
12	52	9.866e+04	2.264e+05	0.08	0.0	0.0	-5503.78	-639.58	817.77	375.06	-1.890e+04	9.866e+04
		-9.322e+04	-1.890e+04	0.06	0.0	300.0	-4828.78	-639.58	817.77	375.06	2.264e+05	-9.322e+04
12	59	3.547e+04	3.236e+05	0.03	0.0	0.0	-5891.92	-230.20	1539.21	3356.58	-1.381e+05	3.547e+04
		-3.359e+04	-1.381e+05	-0.10	0.0	300.0	-5216.92	-230.20	1539.21	3356.58	3.236e+05	-3.359e+04
12	61	2.525e+04	3.234e+05	-0.02	0.0	0.0	-5895.29	173.00	1537.50	-3088.94	-1.379e+05	-2.665e+04
		-2.665e+04	-1.379e+05	-0.10	0.0	300.0	-5220.29	173.00	1537.50	-3088.94	3.234e+05	2.525e+04
12	64	2.636e+04	1.740e+05	0.02	0.0	0.0	-5299.43	-171.42	428.16	3250.47	4.551e+04	2.636e+04
		-2.507e+04	4.551e+04	0.12	0.0	300.0	-4624.43	-171.42	428.16	3250.47	1.740e+05	-2.507e+04
12	69	88.45	2.487e+05	3.83e-05	0.0	0.0	-5597.36	0.79	982.83	80.77	-4.618e+04	-148.80
		-148.80	-4.618e+04	-0.04	0.0	300.0	-4922.36	0.79	982.83	80.77	2.487e+05	88.45
12	70	106.04	3.130e+05	4.44e-05	0.0	0.0	-6594.42	0.92	1248.72	104.60	-6.166e+04	-170.57
		-170.57	-6.166e+04	-0.05	0.0	300.0	-5919.42	0.92	1248.72	104.60	3.130e+05	106.04
12	71	88.45	2.487e+05	3.83e-05	0.0	0.0	-5597.36	0.79	982.83	80.77	-4.618e+04	-148.80
		-148.80	-4.618e+04	-0.04	0.0	300.0	-4922.36	0.79	982.83	80.77	2.487e+05	88.45
12	72	91.97	2.615e+05	3.95e-05	0.0	0.0	-5796.77	0.82	1036.01	85.53	-4.927e+04	-153.15
		-153.15	-4.927e+04	-0.04	0.0	300.0	-5121.77	0.82	1036.01	85.53	2.615e+05	91.97
15	2	3100.44	9.622e+04	6.29e-04	0.0	0.0	-9981.84	27.76	-1813.43	-40.57	9.622e+04	-5226.61
		-5226.61	-4.478e+05	0.06	0.0	300.0	-9104.34	27.76	-1813.43	-40.57	-4.478e+05	3100.44
15	3	84.70	5.328e+04	3.77e-04	0.0	0.0	-6305.35	6.08	-1056.03	-21.21	5.328e+04	-1738.55
		-1738.55	-2.635e+05	0.04	0.0	300.0	-5630.35	6.08	-1056.03	-21.21	-2.635e+05	84.70
15	4	3243.96	8.023e+04	5.39e-04	0.0	0.0	-8068.72	27.05	-1492.94	-33.91	8.023e+04	-4870.07
		-4870.07	-3.677e+05	0.05	0.0	300.0	-7393.72	27.05	-1492.94	-33.91	-3.677e+05	3243.96
15	10	5.686e+04	6.281e+04	-0.05	0.0	0.0	-6339.72	393.54	-1115.67	1557.36	6.281e+04	-6.120e+04
		-6.120e+04	-2.719e+05	0.04	0.0	300.0	-5664.72	393.54	-1115.67	1557.36	-2.719e+05	5.686e+04
15	11	5.787e+04	4.375e+04	0.05	0.0	0.0	-6289.70	-382.35	-999.59	-1600.05	4.375e+04	5.787e+04
		-5.684e+04	-2.561e+05	-0.04	0.0	300.0	-5614.70	-382.35	-999.59	-1600.05	-2.561e+05	-5.684e+04
15	21	2.009e+04	-1.497e+04	-0.02	0.0	0.0	-6081.17	142.44	-645.98	-455.52	-1.497e+04	-2.264e+04
		-2.264e+04	-2.088e+05	-0.10	0.0	300.0	-5406.17	142.44	-645.98	-455.52	-2.088e+05	2.009e+04
15	24	1.931e+04	1.215e+05	0.02	0.0	0.0	-6548.25	-131.26	-1469.28	412.83	1.215e+05	1.931e+04
		-2.007e+04	-3.193e+05	0.08	0.0	300.0	-5873.25	-131.26	-1469.28	412.83	-3.193e+05	-2.007e+04
15	28	1.374e+04	1.215e+05	0.01	0.0	0.0	-6544.65	-95.03	-1469.28	529.43	1.215e+05	1.374e+04
		-1.477e+04	-3.193e+05	0.08	0.0	300.0	-5869.65	-95.03	-1469.28	529.43	-3.193e+05	-1.477e+04
15	42	9.043e+04	6.847e+04	-0.08	0.0	0.0	-6352.97	622.58	-1150.33	2477.39	6.847e+04	-9.635e+04
		-9.635e+04	-2.766e+05	0.05	0.0	300.0	-5677.97	622.58	-1150.33	2477.39	-2.766e+05	9.043e+04
15	43	9.301e+04	3.809e+04	0.08	0.0	0.0	-6276.44	-611.40	-964.93	-2520.08	3.809e+04	9.301e+04
		-9.041e+04	-2.514e+05	-0.05	0.0	300.0	-5601.44	-611.40	-964.93	-2520.08	-2.514e+05	-9.041e+04
15	53	3.190e+04	-5.522e+04	-0.03	0.0	0.0	-5952.80	222.87	-403.24	-643.77	-5.522e+04	-3.497e+04
		-3.497e+04	-1.762e+05	-0.14	0.0	300.0	-5277.80	222.87	-403.24	-643.77	-1.762e+05	3.190e+04
15	56	3.163e+04	1.618e+05	0.03	0.0	0.0	-6676.61	-211.68	-1712.03	601.08	1.618e+05	3.163e+04
		-3.187e+04	-3.518e+05	0.11	0.0	300.0	-6001.61	-211.68	-1712.03	601.08	-3.518e+05	-3.187e+04

3.187e+04												
15	60	2.272e+04	1.617e+05	0.02	0.0	0.0	-6671.18	-153.71	-1712.04	791.71	1.617e+05	2.272e+04
		-2.339e+04	-3.519e+05	0.11	0.0	300.0	-5996.18	-153.71	-1712.04	791.71	-3.519e+05	-
2.339e+04												
15	69	11.25	5.328e+04	3.74e-04	0.0	0.0	-6314.71	5.59	-1057.63	-21.34	5.328e+04	-1666.80
		-1666.80	-2.640e+05	0.04	0.0	300.0	-5639.71	5.59	-1057.63	-21.34	-2.640e+05	11.25
15	70	2117.43	7.125e+04	4.67e-04	0.0	0.0	-7490.29	19.57	-1348.90	-29.81	7.125e+04	-3754.48
		-3754.48	-3.334e+05	0.05	0.0	300.0	-6815.29	19.57	-1348.90	-29.81	-3.334e+05	2117.43
15	71	11.25	5.328e+04	3.74e-04	0.0	0.0	-6314.71	5.59	-1057.63	-21.34	5.328e+04	-1666.80
		-1666.80	-2.640e+05	0.04	0.0	300.0	-5639.71	5.59	-1057.63	-21.34	-2.640e+05	11.25
15	72	432.49	5.687e+04	3.92e-04	0.0	0.0	-6549.82	8.39	-1115.89	-23.04	5.687e+04	-2084.34
		-2084.34	-2.779e+05	0.04	0.0	300.0	-5874.82	8.39	-1115.89	-23.04	-2.779e+05	432.49
17	2	3049.01	4.478e+05	6.17e-04	0.0	0.0	-9982.33	27.22	1813.37	13.03	-9.625e+04	-5118.38
		-5118.38	-9.625e+04	-0.06	0.0	300.0	-9104.83	27.22	1813.37	13.03	4.478e+05	3049.01
17	3	54.83	2.635e+05	3.70e-04	0.0	0.0	-6305.60	5.77	1056.00	4.85	-5.330e+04	-1676.71
		-1676.71	-5.330e+04	-0.04	0.0	300.0	-5630.60	5.77	1056.00	4.85	2.635e+05	54.83
17	4	3202.79	3.676e+05	5.29e-04	0.0	0.0	-8069.12	26.62	1492.89	11.49	-8.025e+04	-4782.69
		-4782.69	-8.025e+04	-0.05	0.0	300.0	-7394.12	26.62	1492.89	11.49	3.676e+05	3202.79
17	17	5.673e+04	2.717e+05	-0.05	0.0	0.0	-6338.33	392.96	1114.66	-1560.44	-6.267e+04	-
6.115e+04												
		-6.115e+04	-6.267e+04	-0.04	0.0	300.0	-5663.33	392.96	1114.66	-1560.44	2.717e+05	5.673e+04
17	20	5.795e+04	2.562e+05	0.05	0.0	0.0	-6291.58	-382.40	1000.53	1570.22	-4.394e+04	5.795e+04
		-5.677e+04	-4.394e+04	0.04	0.0	300.0	-5616.58	-382.40	1000.53	1570.22	2.562e+05	-
5.677e+04												
17	26	1.997e+04	2.087e+05	-0.02	0.0	0.0	-6081.18	141.59	645.46	443.54	1.504e+04	-
2.251e+04												
		-2.251e+04	1.504e+04	0.10	0.0	300.0	-5406.18	141.59	645.46	443.54	2.087e+05	1.997e+04
17	27	1.930e+04	3.193e+05	0.02	0.0	0.0	-6548.73	-131.03	1469.74	-433.76	-1.216e+05	1.930e+04
		-2.000e+04	-1.216e+05	-0.08	0.0	300.0	-5873.73	-131.03	1469.74	-433.76	3.193e+05	-
2.000e+04												
17	49	9.024e+04	2.763e+05	-0.08	0.0	0.0	-6350.93	621.84	1148.70	-2472.59	-6.824e+04	-
9.631e+04												
		-9.631e+04	-6.824e+04	-0.05	0.0	300.0	-5675.93	621.84	1148.70	-2472.59	2.763e+05	9.024e+04
17	52	9.310e+04	2.516e+05	0.08	0.0	0.0	-6278.98	-611.27	966.49	2482.37	-3.837e+04	9.310e+04
		-9.028e+04	-3.837e+04	0.05	0.0	300.0	-5603.98	-611.27	966.49	2482.37	2.516e+05	-
9.028e+04												
17	58	3.172e+04	1.761e+05	-0.03	0.0	0.0	-5952.49	221.75	402.41	633.98	5.535e+04	-
3.481e+04												
		-3.481e+04	5.535e+04	0.14	0.0	300.0	-5277.49	221.75	402.41	633.98	1.761e+05	3.172e+04
17	59	3.160e+04	3.519e+05	0.03	0.0	0.0	-6677.43	-211.19	1712.78	-624.20	-1.620e+05	3.160e+04
		-3.176e+04	-1.620e+05	-0.11	0.0	300.0	-6002.43	-211.19	1712.78	-624.20	3.519e+05	-
3.176e+04												
17	69	-19.18	2.640e+05	3.67e-04	0.0	0.0	-6314.96	5.28	1057.60	4.89	-5.330e+04	-1603.96
		-1603.96	-5.330e+04	-0.04	0.0	300.0	-5639.96	5.28	1057.60	4.89	2.640e+05	-19.18
17	70	2079.46	3.334e+05	4.57e-04	0.0	0.0	-7490.64	19.18	1348.86	9.31	-7.127e+04	-3674.61
		-3674.61	-7.127e+04	-0.05	0.0	300.0	-6815.64	19.18	1348.86	9.31	3.334e+05	2079.46
17	71	-19.18	2.640e+05	3.67e-04	0.0	0.0	-6314.96	5.28	1057.60	4.89	-5.330e+04	-1603.96
		-1603.96	-5.330e+04	-0.04	0.0	300.0	-5639.96	5.28	1057.60	4.89	2.640e+05	-19.18
17	72	400.55	2.779e+05	3.85e-04	0.0	0.0	-6550.09	8.06	1115.85	5.77	-5.690e+04	-2018.09
		-2018.09	-5.690e+04	-0.04	0.0	300.0	-5875.09	8.06	1115.85	5.77	2.779e+05	400.55
20	2	1.928e+04	1.894e+04	-2.96e-03	0.0	0.0	-4973.73	71.92	-884.30	-26.18	1.894e+04	-2297.74
		-2297.74	-2.464e+05	0.04	0.0	300.0	-4096.23	71.92	-884.30	-26.18	-2.464e+05	1.928e+04
20	3	1.140e+04	9719.97	-2.13e-03	0.0	0.0	-3320.34	35.77	-538.40	-7.38	9719.97	667.84
		667.84	-1.518e+05	0.03	0.0	300.0	-2645.34	35.77	-538.40	-7.38	-1.518e+05	1.140e+04
20	4	1.609e+04	1.614e+04	-2.31e-03	0.0	0.0	-3971.65	62.92	-721.50	-23.52	1.614e+04	-2788.17
		-2788.17	-2.003e+05	0.03	0.0	300.0	-3296.65	62.92	-721.50	-23.52	-2.003e+05	1.609e+04
20	5	5.396e+04	-1.309e+04	-0.05	0.0	0.0	-3498.80	339.45	-404.52	-1647.54	-1.309e+04	-
4.787e+04												
		-4.787e+04	-1.343e+05	-0.04	0.0	300.0	-2823.80	339.45	-404.52	-1647.54	-1.343e+05	5.396e+04
20	6	5.239e+04	1.668e+04	-0.04	0.0	0.0	-3582.76	327.96	-585.94	-753.07	1.668e+04	-
4.600e+04												
		-4.600e+04	-1.589e+05	0.03	0.0	300.0	-2907.76	327.96	-585.94	-753.07	-1.589e+05	5.239e+04
20	7	4.759e+04	2662.55	0.05	0.0	0.0	-3063.11	-257.92	-491.96	737.92	2662.55	4.759e+04
		-2.979e+04	-1.451e+05	-0.03	0.0	300.0	-2388.11	-257.92	-491.96	737.92	-1.451e+05	-
2.979e+04												
20	10	5.397e+04	8291.01	-0.05	0.0	0.0	-3565.78	339.22	-534.70	-684.80	8291.01	-
4.780e+04												
		-4.780e+04	-1.520e+05	0.03	0.0	300.0	-2890.78	339.22	-534.70	-684.80	-1.520e+05	5.397e+04
20	24	1.823e+04	6.165e+04	0.02	0.0	0.0	-3397.52	-73.72	-854.43	1841.02	6.165e+04	1.823e+04
		-3887.30	-1.947e+05	0.06	0.0	300.0	-2722.52	-73.72	-854.43	1841.02	-1.947e+05	-3887.30
20	26	1.691e+04	5.760e+04	-7.38e-03	0.0	0.0	-3514.48	74.99	-830.09	792.79	5.760e+04	-5582.87
		-5582.87	-1.949e+05	0.06	0.0	300.0	-2839.48	74.99	-830.09	792.79	-1.949e+05	1.691e+04
20	37	7.913e+04	-2.639e+04	-0.07	0.0	0.0	-3598.81	519.06	-326.50	-2540.21	-2.639e+04	-
7.659e+04												
		-7.659e+04	-1.241e+05	-0.05	0.0	300.0	-2923.81	519.06	-326.50	-2540.21	-1.241e+05	7.913e+04
20	38	7.666e+04	2.084e+04	-0.07	0.0	0.0	-3731.77	501.02	-614.27	-1139.26	2.084e+04	-

7.364e+04												
		-7.364e+04	-1.632e+05	0.04	0.0	300.0	-3056.77	501.02	-614.27	-1139.26	-1.632e+05	7.666e+04
20	39	7.523e+04	-1499.01	0.08	0.0	0.0	-2914.11	-430.97	-463.64	1124.11	-1499.01	7.523e+04
		-5.406e+04	-1.408e+05	-0.04	0.0	300.0	-2239.11	-430.97	-463.64	1124.11	-1.408e+05	-
5.406e+04												
20	42	7.916e+04	7355.80	-0.07	0.0	0.0	-3704.40	518.77	-531.86	-1029.96	7355.80	-
7.648e+04												
		-7.648e+04	-1.520e+05	0.03	0.0	300.0	-3029.40	518.77	-531.86	-1029.96	-1.520e+05	7.916e+04
20	56	2.848e+04	9.211e+04	0.03	0.0	0.0	-3441.83	-137.55	-1039.13	2877.00	9.211e+04	2.848e+04
		-1.279e+04	-2.197e+05	0.08	0.0	300.0	-2766.83	-137.55	-1039.13	2877.00	-2.197e+05	-
1.279e+04												
20	58	2.024e+04	8.573e+04	-0.01	0.0	0.0	-3625.66	98.64	-1000.92	1238.36	8.573e+04	-9348.49
		-9348.49	-2.199e+05	0.09	0.0	300.0	-2950.66	98.64	-1000.92	1238.36	-2.199e+05	2.024e+04
20	69	1.130e+04	9669.06	-2.13e-03	0.0	0.0	-3322.94	35.02	-538.95	-7.57	9669.06	793.97
		793.97	-1.520e+05	0.03	0.0	300.0	-2647.94	35.02	-538.95	-7.57	-1.520e+05	1.130e+04
20	70	1.443e+04	1.395e+04	-2.25e-03	0.0	0.0	-3757.14	53.12	-661.02	-18.34	1.395e+04	-1510.04
		-1510.04	-1.844e+05	0.03	0.0	300.0	-3082.14	53.12	-661.02	-18.34	-1.844e+05	1.443e+04
20	71	1.130e+04	9669.06	-2.13e-03	0.0	0.0	-3322.94	35.02	-538.95	-7.57	9669.06	793.97
		793.97	-1.520e+05	0.03	0.0	300.0	-2647.94	35.02	-538.95	-7.57	-1.520e+05	1.130e+04
20	72	1.193e+04	1.052e+04	-2.16e-03	0.0	0.0	-3409.78	38.64	-563.37	-9.73	1.052e+04	333.16
		333.16	-1.585e+05	0.03	0.0	300.0	-2734.78	38.64	-563.37	-9.73	-1.585e+05	1.193e+04
22	2	1.936e+04	2.463e+05	-2.93e-03	0.0	0.0	-4973.20	73.15	884.66	69.67	-1.913e+04	-2581.92
		-2581.92	-1.913e+04	-0.04	0.0	300.0	-4095.70	73.15	884.66	69.67	2.463e+05	1.936e+04
22	3	1.146e+04	1.517e+05	-2.10e-03	0.0	0.0	-3320.05	36.62	538.62	36.24	-9837.84	474.91
		474.91	-9837.84	-0.03	0.0	300.0	-2645.05	36.62	538.62	36.24	1.517e+05	1.146e+04
22	4	1.616e+04	2.002e+05	-2.28e-03	0.0	0.0	-3971.22	63.91	721.79	58.69	-1.629e+04	-3018.26
		-3018.26	-1.629e+04	-0.03	0.0	300.0	-3296.22	63.91	721.79	58.69	2.002e+05	1.616e+04
22	13	5.240e+04	1.588e+05	-0.04	0.0	0.0	-3581.70	328.96	585.89	804.79	-1.678e+04	-
4.629e+04												
		-4.629e+04	-1.678e+04	-0.03	0.0	300.0	-2906.70	328.96	585.89	804.79	1.588e+05	5.240e+04
22	14	5.394e+04	1.341e+05	-0.05	0.0	0.0	-3497.54	340.16	404.05	1693.32	1.308e+04	-
4.811e+04												
		-4.811e+04	1.308e+04	0.04	0.0	300.0	-2822.54	340.16	404.05	1693.32	1.341e+05	5.394e+04
22	16	4.749e+04	1.451e+05	0.05	0.0	0.0	-3063.59	-257.24	492.46	-732.23	-2791.52	4.749e+04
		-2.968e+04	-2791.52	0.03	0.0	300.0	-2388.59	-257.24	492.46	-732.23	1.451e+05	-
2.968e+04												
22	17	5.397e+04	1.518e+05	-0.05	0.0	0.0	-3563.80	340.12	534.49	736.64	-8367.95	-
4.806e+04												
		-4.806e+04	-8367.95	-0.03	0.0	300.0	-2888.80	340.12	534.49	736.64	1.518e+05	5.397e+04
22	21	1.700e+04	1.949e+05	-7.34e-03	0.0	0.0	-3514.56	76.19	831.09	-746.13	-5.788e+04	-5848.89
		-5848.89	-5.788e+04	-0.06	0.0	300.0	-2839.56	76.19	831.09	-746.13	1.949e+05	1.700e+04
22	27	1.798e+04	1.948e+05	0.02	0.0	0.0	-3397.80	-72.42	855.49	-1808.44	-6.194e+04	1.798e+04
		-3746.89	-6.194e+04	-0.06	0.0	300.0	-2722.80	-72.42	855.49	-1808.44	1.948e+05	-3746.89
22	45	7.664e+04	1.631e+05	-0.07	0.0	0.0	-3730.88	502.09	614.00	1209.67	-2.093e+04	-
7.398e+04												
		-7.398e+04	-2.093e+04	-0.04	0.0	300.0	-3055.88	502.09	614.00	1209.67	1.631e+05	7.664e+04
22	46	7.906e+04	1.239e+05	-0.07	0.0	0.0	-3597.92	519.73	325.59	2601.07	2.644e+04	-
7.686e+04												
		-7.686e+04	2.644e+04	0.05	0.0	300.0	-2922.92	519.73	325.59	2601.07	1.239e+05	7.906e+04
22	48	7.519e+04	1.409e+05	0.08	0.0	0.0	-2914.40	-430.37	464.35	-1137.10	1356.56	7.519e+04
		-5.392e+04	1356.56	0.04	0.0	300.0	-2239.40	-430.37	464.35	-1137.10	1.409e+05	-
5.392e+04												
22	49	7.912e+04	1.518e+05	-0.07	0.0	0.0	-3702.49	519.71	531.41	1099.12	-7409.90	-
7.679e+04												
		-7.679e+04	-7409.90	-0.03	0.0	300.0	-3027.49	519.71	531.41	1099.12	1.518e+05	7.912e+04
22	53	2.033e+04	2.200e+05	-0.01	0.0	0.0	-3625.22	99.92	1002.39	-1180.81	-8.612e+04	-9640.90
		-9640.90	-8.612e+04	-0.09	0.0	300.0	-2950.22	99.92	1002.39	-1180.81	2.200e+05	2.033e+04
22	59	2.821e+04	2.198e+05	0.03	0.0	0.0	-3441.72	-136.06	1040.68	-2843.45	-9.249e+04	2.821e+04
		-1.262e+04	-9.249e+04	-0.08	0.0	300.0	-2766.72	-136.06	1040.68	-2843.45	2.198e+05	-
1.262e+04												
22	69	1.136e+04	1.520e+05	-2.11e-03	0.0	0.0	-3322.64	35.86	539.18	36.28	-9786.89	602.68
		602.68	-9786.89	-0.03	0.0	300.0	-2647.64	35.86	539.18	36.28	1.520e+05	1.136e+04
22	70	1.449e+04	1.843e+05	-2.23e-03	0.0	0.0	-3756.76	54.05	661.29	51.25	-1.409e+04	-1726.10
		-1726.10	-1.409e+04	-0.03	0.0	300.0	-3081.76	54.05	661.29	51.25	1.843e+05	1.449e+04
22	71	1.136e+04	1.520e+05	-2.11e-03	0.0	0.0	-3322.64	35.86	539.18	36.28	-9786.89	602.68
		602.68	-9786.89	-0.03	0.0	300.0	-2647.64	35.86	539.18	36.28	1.520e+05	1.136e+04
22	72	1.199e+04	1.584e+05	-2.13e-03	0.0	0.0	-3409.46	39.50	563.60	39.28	-1.065e+04	136.92
		136.92	-1.065e+04	-0.03	0.0	300.0	-2734.46	39.50	563.60	39.28	1.584e+05	1.199e+04

Pilas.	**M3 mx/mn**	**M2 mx/mn**	**D 2 / D 3**	**Q 2 / Q 3**	**N**	**V 2**	**V 3**	**T**
	-9.900e+04	-4.478e+05	-0.14	0.0	-9982.33	-640.64	-1813.43	-3829.06
	9.875e+04	4.478e+05	0.14	0.0	-2239.11	641.97	1813.37	3632.60

Trave	**Cmb**	**M3 mx/mn** daN cm	**M2 mx/mn** daN cm	**D 2 / D 3** cm	**Q 2 / Q 3** daN	**Pos.** cm	**N** daN	**V 2** daN	**V 3** daN	**T** daN cm	**M 2** daN cm	**M 3** daN cm

3	2	3.792e+05	233.49	-0.27	-3465.56	0.0	-886.19	3465.61	-0.18	-10.83	233.49	-1.667e+05
		-1.667e+05	177.49	-2.91e-04	0.0	315.0	-886.19	0.05	-0.18	-10.83	177.49	3.792e+05
3	3	2.370e+05	133.04	-0.17	-2182.55	0.0	-539.29	2182.58	-0.11	-7.18	133.04	-1.068e+05
		-1.068e+05	98.53	-1.62e-04	0.0	315.0	-539.29	0.03	-0.11	-7.18	98.53	2.370e+05
3	17	2.325e+05	1.718e+04	-0.17	-2185.62	0.0	-553.17	2117.48	-107.62	2654.20	1.718e+04	-8.944e+04
		-8.944e+04	-1.690e+04	0.02	0.0	315.0	-553.17	-68.15	-107.62	2654.20	-1.690e+04	2.325e+05
3	20	2.422e+05	1.710e+04	-0.17	-2185.62	0.0	-526.53	2253.84	107.40	-2668.53	-1.691e+04	-1.243e+05
		-1.243e+05	-1.691e+04	-0.02	0.0	315.0	-526.53	68.21	107.40	-2668.53	1.710e+04	2.422e+05
3	30	2.377e+05	-4724.45	-0.16	-2185.62	0.0	-637.33	2324.61	5.33	508.61	-6528.61	-1.485e+05
		-1.485e+05	-6528.61	1.61e-03	0.0	315.0	-637.33	138.98	5.33	508.61	-4724.45	2.377e+05
3	31	2.378e+05	6795.03	-0.18	-2185.62	0.0	-442.37	2046.71	-5.55	-522.95	6795.03	-6.524e+04
		-6.524e+04	4921.97	-1.83e-03	0.0	315.0	-442.37	-138.92	-5.55	-522.95	4921.97	2.370e+05
3	36	2.403e+05	5422.63	-0.16	-2185.62	0.0	-612.45	2327.22	58.63	-660.47	-1.329e+04	-1.488e+05
		-1.488e+05	-1.329e+04	-8.86e-03	0.0	315.0	-612.45	141.60	58.63	-660.47	5422.63	2.403e+05
3	49	2.305e+05	2.696e+04	-0.17	-2185.62	0.0	-560.78	2079.62	-168.87	4194.82	2.696e+04	-7.928e+04
		-7.928e+04	-2.649e+04	0.03	0.0	315.0	-560.78	-106.00	-168.87	4194.82	-2.649e+04	2.305e+05
3	52	2.442e+05	2.669e+04	-0.17	-2185.62	0.0	-518.92	2291.69	168.65	-4209.16	-2.669e+04	-1.345e+05
		-1.345e+05	-2.669e+04	-0.03	0.0	315.0	-518.92	106.07	168.65	-4209.16	2.669e+04	2.442e+05
3	62	2.382e+05	-7558.42	-0.15	-2185.62	0.0	-693.18	2404.40	8.64	780.18	-1.040e+04	-1.729e+05
		-1.729e+05	-1.040e+04	2.64e-03	0.0	315.0	-693.18	218.78	8.64	780.18	-7558.42	2.382e+05
3	63	2.397e+05	1.067e+04	-0.18	-2185.62	0.0	-386.53	1966.91	-8.86	-794.52	1.067e+04	-4.090e+04
		-4.090e+04	7755.94	-2.86e-03	0.0	315.0	-386.53	-218.71	-8.86	-794.52	7755.94	2.365e+05
3	68	2.418e+05	8329.41	-0.16	-2185.62	0.0	-653.85	2409.71	92.08	-1047.04	-2.098e+04	-1.734e+05
		-1.734e+05	-2.098e+04	-0.01	0.0	315.0	-653.85	224.08	92.08	-1047.04	8329.41	2.418e+05
3	69	2.373e+05	133.21	-0.17	-2185.62	0.0	-539.85	2185.66	-0.11	-7.17	133.21	-1.069e+05
		-1.069e+05	98.76	-1.63e-04	0.0	315.0	-539.85	0.03	-0.11	-7.17	98.76	2.373e+05
3	70	2.842e+05	173.31	-0.20	-2599.74	0.0	-662.40	2599.78	-0.13	-8.18	173.31	-1.253e+05
		-1.253e+05	131.34	-2.15e-04	0.0	315.0	-662.40	0.04	-0.13	-8.18	131.34	2.842e+05
3	71	2.373e+05	133.21	-0.17	-2185.62	0.0	-539.85	2185.66	-0.11	-7.17	133.21	-1.069e+05
		-1.069e+05	98.76	-1.63e-04	0.0	315.0	-539.85	0.03	-0.11	-7.17	98.76	2.373e+05
3	72	2.467e+05	141.23	-0.18	-2268.45	0.0	-564.36	2268.48	-0.11	-7.37	141.23	-1.106e+05
		-1.106e+05	105.28	-1.73e-04	0.0	315.0	-564.36	0.03	-0.11	-7.37	105.28	2.467e+05
5	1	3.184e+04	183.01	-0.01	-1345.50	0.0	-46.97	602.09	-1.38	4.472e+04	183.01	-1.399e+04
		-3.837e+04	-292.50	0.01	0.0	345.0	-46.97	-743.41	-1.38	4.472e+04	-292.50	3.837e+04
5	2	3.289e+04	252.54	-0.01	-1345.50	0.0	-74.58	632.61	-1.91	6.200e+04	252.54	-1.821e+04
		-3.206e+04	-407.94	0.02	0.0	345.0	-74.58	-712.89	-1.91	6.200e+04	-407.94	3.206e+04
5	3	2.449e+04	140.41	-7.95e-03	-1035.00	0.0	-37.48	463.99	-1.06	3.424e+04	140.41	-1.092e+04
		-2.938e+04	-224.13	9.03e-03	0.0	345.0	-37.48	-571.01	-1.06	3.424e+04	-224.13	2.938e+04
5	14	4.151e+04	1.029e+04	-0.01	-1035.00	0.0	32.35	266.30	-42.39	3.582e+04	1.029e+04	2.950e+04
		-5.634e+04	-4705.23	0.02	0.0	345.0	32.35	-768.70	-42.39	3.582e+04	-4705.23	-5.634e+04
5	17	4.131e+04	4132.39	-0.01	-1035.00	0.0	51.12	266.14	-4.78	3.436e+04	4132.39	2.951e+04
		-5.721e+04	2183.56	8.29e-03	0.0	345.0	51.12	-768.86	-4.78	3.436e+04	2183.56	-5.721e+04
5	20	2.159e+04	-2632.80	-3.12e-03	-1035.00	0.0	-124.55	660.88	2.66	3.430e+04	-3851.15	-5.117e+04
		-5.117e+04	-3851.15	9.81e-03	0.0	345.0	-124.55	-374.12	2.66	3.430e+04	-2632.80	-1701.31
5	30	2.631e+04	1.432e+04	-9.30e-03	-1035.00	0.0	-68.91	434.75	-87.38	3.658e+04	1.432e+04	-4860.95
		-3.340e+04	-1.586e+04	0.02	0.0	345.0	-68.91	-600.25	-87.38	3.658e+04	-1.586e+04	3.340e+04
5	31	2.348e+04	1.541e+04	-6.56e-03	-1035.00	0.0	-4.52	492.28	85.26	3.209e+04	-1.404e+04	-1.680e+04
		-2.551e+04	-1.404e+04	-4.01e-03	0.0	345.0	-4.52	-542.72	85.26	3.209e+04	1.541e+04	-2.551e+04

5	46	5.714e+04	1.593e+04	-0.02	-1035.00	0.0	69.77	149.92	-65.12	3.663e+04	1.593e+04	5.330e+04
		-7.222e+04	-7133.10	0.02	0.0	345.0	69.77	-885.08	-65.12	3.663e+04	-7133.10	-7.222e+04
5	49	5.698e+04	6267.07	-0.02	-1035.00	0.0	99.33	149.74	-6.11	3.434e+04	6267.07	5.332e+04
		-7.357e+04	3673.65	7.78e-03	0.0	345.0	99.33	-885.26	-6.11	3.434e+04	3673.65	-7.357e+04
5	52	2.572e+04	-4122.89	4.04e-03	-1035.00	0.0	-172.76	777.29	4.00	3.433e+04	-5985.83	-7.498e+04
		-7.498e+04	-5985.83	0.01	0.0	345.0	-172.76	-257.71	4.00	3.433e+04	-4122.89	1.466e+04
5	62	2.762e+04	2.246e+04	-0.01	-1035.00	0.0	-90.87	417.57	-137.17	3.783e+04	2.246e+04	-1314.72
		-3.579e+04	-2.491e+04	0.03	0.0	345.0	-90.87	-617.43	-137.17	3.783e+04	-2.491e+04	-3.579e+04
5	63	2.290e+04	2.446e+04	-5.79e-03	-1035.00	0.0	17.44	509.46	135.05	3.084e+04	-2.218e+04	-2.035e+04
		-2.313e+04	-2.218e+04	-0.01	0.0	345.0	17.44	-525.54	135.05	3.084e+04	2.446e+04	-2.313e+04
5	69	2.449e+04	140.62	-7.89e-03	-1035.00	0.0	-36.72	463.51	-1.06	3.433e+04	140.62	-1.083e+04
		-2.946e+04	-224.62	9.05e-03	0.0	345.0	-36.72	-571.49	-1.06	3.433e+04	-224.62	-2.946e+04
5	70	2.519e+04	186.97	-0.01	-1035.00	0.0	-55.12	483.86	-1.42	4.585e+04	186.97	-1.364e+04
		-2.525e+04	-301.58	0.01	0.0	345.0	-55.12	-551.14	-1.42	4.585e+04	-301.58	-2.525e+04
5	71	2.449e+04	140.62	-7.89e-03	-1035.00	0.0	-36.72	463.51	-1.06	3.433e+04	140.62	-1.083e+04
		-2.946e+04	-224.62	9.05e-03	0.0	345.0	-36.72	-571.49	-1.06	3.433e+04	-224.62	-2.946e+04
5	72	2.463e+04	149.89	-8.43e-03	-1035.00	0.0	-40.40	467.58	-1.13	3.664e+04	149.89	-1.139e+04
		-2.861e+04	-240.01	9.66e-03	0.0	345.0	-40.40	-567.42	-1.13	3.664e+04	-240.01	-2.861e+04
7	2	7.374e+05	100.13	-0.50	-1.547e+04	0.0	-1800.02	7736.46	-0.06	2.72	100.13	-4.811e+05
		-4.811e+05	60.57	-1.29e-04	0.0	630.0	-1800.02	-7736.31	-0.06	2.72	60.57	-4.811e+05
7	3	4.350e+05	56.84	-0.29	-9090.39	0.0	-1048.38	4545.24	-0.04	1.54	56.84	-2.808e+05
		-2.808e+05	33.40	-7.27e-05	0.0	630.0	-1048.38	-4545.15	-0.04	1.54	33.40	-2.808e+05
7	10	4.339e+05	7406.28	-0.29	-9108.27	0.0	-1008.93	4611.13	21.71	-582.23	-6295.10	-2.994e+05
		-2.994e+05	-6295.10	-0.02	0.0	630.0	-1008.93	-4497.15	21.71	-582.23	7406.28	-2.672e+05
7	11	4.378e+05	6408.87	-0.30	-9108.27	0.0	-1091.00	4497.23	-21.78	585.30	6408.87	-2.633e+05
		-2.955e+05	-7339.24	0.02	0.0	630.0	-1091.00	-4611.04	-21.78	585.30	-7339.24	-2.955e+05
7	16	4.379e+05	8465.42	-0.29	-9108.27	0.0	-1090.56	4591.94	28.32	-652.54	-9402.31	-2.893e+05
		-2.893e+05	-9402.31	-0.01	0.0	630.0	-1090.56	-4516.33	28.32	-652.54	8465.42	-2.694e+05
7	22	4.353e+05	1.349e+04	-0.29	-9108.27	0.0	-1037.32	4660.42	42.19	-377.11	-1.310e+04	-3.149e+05
		-3.149e+05	-1.310e+04	-2.78e-03	0.0	630.0	-1037.32	-4447.86	42.19	-377.11	1.349e+04	-2.490e+05
7	23	4.365e+05	1.321e+04	-0.30	-9108.27	0.0	-1062.61	4447.94	-42.27	380.17	1.321e+04	-2.479e+05
		-3.137e+05	-1.343e+04	-2.71e-03	0.0	630.0	-1062.61	-4660.33	-42.27	380.17	-1.343e+04	-3.137e+05
7	33	4.353e+05	5689.98	-0.30	-9108.27	0.0	-1038.75	4382.91	-17.41	70.61	5689.98	-2.286e+05
		-3.353e+05	-5284.96	9.69e-03	0.0	630.0	-1038.75	-4725.37	-17.41	70.61	-5284.96	-3.353e+05
7	48	4.391e+05	1.335e+04	-0.29	-9108.27	0.0	-1113.54	4613.93	44.76	-1029.86	-1.489e+04	-2.940e+05
		-2.940e+05	-1.489e+04	-0.02	0.0	630.0	-1113.54	-4494.34	44.76	-1029.86	1.335e+04	-2.623e+05
7	50	4.327e+05	7771.83	-0.29	-9108.27	0.0	-985.89	4624.94	-21.89	995.30	7771.83	-3.098e+05
		-3.098e+05	-6056.75	0.02	0.0	630.0	-985.89	-4483.34	-21.89	995.30	-6056.75	-2.593e+05
7	51	4.391e+05	6123.79	-0.30	-9108.27	0.0	-1114.04	4483.42	21.81	-992.24	-7658.07	-2.529e+05
		-3.035e+05	-7658.07	-0.02	0.0	630.0	-1114.04	-4624.85	21.81	-992.24	6123.79	-3.035e+05

7	54	4.350e+05	2.126e+04	-0.28	-9108.27	0.0	-1030.39	4722.81	66.57	-584.89	-2.069e+04	-
3.346e+05												
		-3.346e+05	-2.069e+04	-4.43e-03	0.0	630.0	-1030.39	-4385.46	66.57	-584.89	2.126e+04	-
2.300e+05												
7	55	4.368e+05	2.080e+04	-0.30	-9108.27	0.0	-1069.54	4385.55	-66.64	587.95	2.080e+04	-
2.282e+05												
		-3.327e+05	-2.120e+04	4.33e-03	0.0	630.0	-1069.54	-4722.73	-66.64	587.95	-2.120e+04	-
3.327e+05												
7	65	4.349e+05	8723.24	-0.31	-9108.27	0.0	-1032.02	4281.91	-26.75	116.14	8723.24	-
1.975e+05												
		-3.672e+05	-8138.19	0.02	0.0	630.0	-1032.02	-4826.36	-26.75	116.14	-8138.19	-
3.672e+05												
7	69	4.359e+05	56.88	-0.29	-9108.27	0.0	-1049.97	4554.18	-0.04	1.53	56.88	-
2.814e+05												
		-2.814e+05	33.52	-7.28e-05	0.0	630.0	-1049.97	-4554.09	-0.04	1.53	33.52	-
2.814e+05												
7	70	5.491e+05	74.31	-0.37	-1.152e+04	0.0	-1338.95	5758.90	-0.05	2.03	74.31	-
3.579e+05												
		-3.579e+05	44.76	-9.54e-05	0.0	630.0	-1338.95	-5758.79	-0.05	2.03	44.76	-
3.579e+05												
7	71	4.359e+05	56.88	-0.29	-9108.27	0.0	-1049.97	4554.18	-0.04	1.53	56.88	-
2.814e+05												
		-2.814e+05	33.52	-7.28e-05	0.0	630.0	-1049.97	-4554.09	-0.04	1.53	33.52	-
2.814e+05												
7	72	4.585e+05	60.37	-0.31	-9590.16	0.0	-1107.76	4795.12	-0.04	1.63	60.37	-
2.967e+05												
		-2.967e+05	35.77	-7.73e-05	0.0	630.0	-1107.76	-4795.03	-0.04	1.63	35.77	-
2.967e+05												
8	2	3.792e+05	177.49	0.27	-3465.56	0.0	-886.19	0.05	-0.18	-10.83	177.49	3.792e+05
		-1.666e+05	121.48	2.92e-04	0.0	315.0	-886.19	-3465.52	-0.18	-10.83	121.48	-
1.666e+05												
8	3	2.370e+05	98.53	0.17	-2182.55	0.0	-539.29	0.03	-0.11	-7.18	98.53	2.370e+05
		-1.068e+05	64.02	1.61e-04	0.0	315.0	-539.29	-2182.52	-0.11	-7.18	64.02	-
1.068e+05												
8	10	2.327e+05	1.722e+04	0.17	-2185.62	0.0	-552.69	68.17	107.55	-2692.75	-1.672e+04	2.324e+05
		-8.946e+04	-1.672e+04	-0.02	0.0	315.0	-552.69	-2117.45	107.55	-2692.75	1.722e+04	-
8.946e+04												
8	11	2.423e+05	1.692e+04	0.17	-2185.62	0.0	-527.02	-68.11	-107.77	2678.42	1.692e+04	2.423e+05
		-1.243e+05	-1.709e+04	0.02	0.0	315.0	-527.02	-2253.73	-107.77	2678.42	-1.709e+04	-
1.243e+05												
8	31	2.405e+05	4921.97	0.16	-2185.62	0.0	-613.66	-141.95	-58.64	655.34	4921.97	2.405e+05
		-1.488e+05	-1.336e+04	8.77e-03	0.0	315.0	-613.66	-2327.58	-58.64	655.34	-1.336e+04	-
1.488e+05												
8	33	2.379e+05	-5225.11	0.16	-2185.62	0.0	-638.52	-139.27	-5.10	-522.79	-5225.11	2.379e+05
		-1.486e+05	-6529.87	3.07e-03	0.0	315.0	-638.52	-2324.90	-5.10	-522.79	-6529.87	-
1.486e+05												
8	36	2.381e+05	6658.50	0.18	-2185.62	0.0	-441.19	139.34	4.89	508.46	5422.63	2.368e+05
		-6.517e+04	5422.63	-2.95e-03	0.0	315.0	-441.19	-2046.29	4.89	508.46	6658.50	-
6.517e+04												
8	42	2.313e+05	2.706e+04	0.17	-2185.62	0.0	-560.17	105.84	168.96	-4246.09	-2.627e+04	2.304e+05
		-7.934e+04	-2.627e+04	-0.03	0.0	315.0	-560.17	-2079.79	168.96	-4246.09	2.706e+04	-
7.934e+04												
8	43	2.442e+05	2.647e+04	0.17	-2185.62	0.0	-519.54	-105.77	-169.18	4231.76	2.647e+04	2.442e+05
		-1.344e+05	-2.694e+04	0.03	0.0	315.0	-519.54	-2291.40	-169.18	4231.76	-2.694e+04	-
1.344e+05												
8	63	2.419e+05	7755.94	0.16	-2185.62	0.0	-655.44	-224.47	-92.22	1041.02	7755.94	2.419e+05
		-1.734e+05	-2.109e+04	0.01	0.0	315.0	-655.44	-2410.10	-92.22	1041.02	-2.109e+04	-
1.734e+05												
8	65	2.384e+05	-8131.88	0.15	-2185.62	0.0	-694.74	-219.18	-8.40	-801.96	-8131.88	2.384e+05
		-1.729e+05	-1.039e+04	4.83e-03	0.0	315.0	-694.74	-2404.80	-8.40	-801.96	-1.039e+04	-
1.729e+05												
8	68	2.396e+05	1.052e+04	0.18	-2185.62	0.0	-384.96	219.24	8.18	787.62	8329.41	2.363e+05
		-4.080e+04	8329.41	-4.70e-03	0.0	315.0	-384.96	-1966.38	8.18	787.62	1.052e+04	-
4.080e+04												
8	69	2.373e+05	98.76	0.17	-2185.62	0.0	-539.85	0.03	-0.11	-7.17	98.76	2.373e+05
		-1.069e+05	64.32	1.62e-04	0.0	315.0	-539.85	-2185.59	-0.11	-7.17	64.32	-
1.069e+05												
8	70	2.842e+05	131.34	0.20	-2599.74	0.0	-662.40	0.04	-0.13	-8.18	131.34	2.842e+05
		-1.253e+05	89.36	2.16e-04	0.0	315.0	-662.40	-2599.71	-0.13	-8.18	89.36	-
1.253e+05												
8	71	2.373e+05	98.76	0.17	-2185.62	0.0	-539.85	0.03	-0.11	-7.17	98.76	2.373e+05
		-1.069e+05	64.32	1.62e-04	0.0	315.0	-539.85	-2185.59	-0.11	-7.17	64.32	-
1.069e+05												
8	72	2.467e+05	105.28	0.18	-2268.45	0.0	-564.36	0.03	-0.11	-7.37	105.28	2.467e+05
		-1.105e+05	69.33	1.72e-04	0.0	315.0	-564.36	-2268.42	-0.11	-7.37	69.33	-
1.105e+05												

9	1	3.188e+04	378.01	-0.01	-1345.50	0.0	-46.16	602.04	1.77	-4.471e+04	-232.67	-
1.395e+04												
		-3.834e+04	-232.67	-0.01	0.0	345.0	-46.16	-743.46	1.77	-4.471e+04	378.01	-
3.834e+04												
9	2	3.294e+04	517.24	-0.01	-1345.50	0.0	-73.68	632.58	2.42	-6.199e+04	-317.89	-
1.816e+04												
		-3.201e+04	-317.89	-0.02	0.0	345.0	-73.68	-712.92	2.42	-6.199e+04	517.24	-
3.201e+04												
9	3	2.452e+04	289.95	-7.97e-03	-1035.00	0.0	-36.84	463.95	1.36	-3.424e+04	-178.60	-
1.088e+04												
		-2.935e+04	-178.60	-9.11e-03	0.0	345.0	-36.84	-571.05	1.36	-3.424e+04	289.95	-
2.935e+04												
9	5	4.157e+04	4739.66	-0.01	-1035.00	0.0	32.96	266.06	42.31	-3.580e+04	-1.024e+04	2.958e+04
		-5.635e+04	-1.024e+04	-0.02	0.0	345.0	32.96	-768.94	42.31	-3.580e+04	4739.66	-
5.635e+04												
9	10	4.137e+04	-2151.88	-0.01	-1035.00	0.0	51.65	265.85	4.66	-3.434e+04	-4068.10	2.960e+04
		-5.723e+04	-4068.10	-8.40e-03	0.0	345.0	51.65	-769.15	4.66	-3.434e+04	-2151.88	-
5.723e+04												
9	11	2.163e+04	3710.48	-3.11e-03	-1035.00	0.0	-123.83	661.10	-1.94	-3.431e+04	3710.48	-
5.118e+04												
		-5.118e+04	2732.71	-9.87e-03	0.0	345.0	-123.83	-373.90	-1.94	-3.431e+04	2732.71	-1635.00
9	17	3.430e+04	9292.41	-0.01	-1035.00	0.0	-16.98	333.52	71.34	-3.545e+04	-1.537e+04	1.626e+04
		-4.722e+04	-1.537e+04	-9.97e-03	0.0	345.0	-16.98	-701.48	71.34	-3.545e+04	9292.41	-
4.722e+04												
9	33	2.637e+04	1.592e+04	-9.34e-03	-1035.00	0.0	-68.38	434.69	87.68	-3.659e+04	-1.437e+04	-4797.30
		-3.336e+04	-1.437e+04	-0.02	0.0	345.0	-68.38	-600.31	87.68	-3.659e+04	1.592e+04	-
3.336e+04												
9	37	5.723e+04	7145.31	-0.02	-1035.00	0.0	70.52	149.55	64.78	-3.661e+04	-1.581e+04	5.341e+04
		-7.225e+04	-1.581e+04	-0.02	0.0	345.0	70.52	-885.45	64.78	-3.661e+04	7145.31	-
7.225e+04												
9	42	5.708e+04	-3664.08	-0.02	-1035.00	0.0	100.03	149.31	5.74	-3.431e+04	-6143.16	5.343e+04
		-7.360e+04	-6143.16	-7.90e-03	0.0	345.0	100.03	-885.69	5.74	-3.431e+04	-3664.08	-
7.360e+04												
9	43	2.578e+04	5785.54	4.11e-03	-1035.00	0.0	-172.21	777.64	-3.02	-3.434e+04	5785.54	-
7.501e+04												
		-7.501e+04	4244.91	-0.01	0.0	345.0	-172.21	-257.36	-3.02	-3.434e+04	4244.91	1.474e+04
9	65	2.769e+04	2.496e+04	-0.01	-1035.00	0.0	-90.57	417.38	137.39	-3.783e+04	-2.249e+04	-1219.35
		-3.575e+04	-2.249e+04	-0.03	0.0	345.0	-90.57	-617.62	137.39	-3.783e+04	2.496e+04	-
3.575e+04												
9	68	2.290e+04	2.214e+04	-5.77e-03	-1035.00	0.0	18.39	509.56	-134.67	-3.082e+04	2.214e+04	-
2.036e+04												
		-2.311e+04	-2.438e+04	0.01	0.0	345.0	18.39	-525.44	-134.67	-3.082e+04	-2.438e+04	-
2.311e+04												
9	69	2.452e+04	290.42	-7.91e-03	-1035.00	0.0	-36.09	463.47	1.36	-3.433e+04	-178.81	-
1.079e+04												
		-2.943e+04	-178.81	-9.14e-03	0.0	345.0	-36.09	-571.53	1.36	-3.433e+04	290.42	-
2.943e+04												
9	70	2.523e+04	383.24	-0.01	-1035.00	0.0	-54.43	483.83	1.79	-4.584e+04	-235.63	-
1.360e+04												
		-2.521e+04	-235.63	-0.01	0.0	345.0	-54.43	-551.17	1.79	-4.584e+04	383.24	-
2.521e+04												
9	71	2.452e+04	290.42	-7.91e-03	-1035.00	0.0	-36.09	463.47	1.36	-3.433e+04	-178.81	-
1.079e+04												
		-2.943e+04	-178.81	-9.14e-03	0.0	345.0	-36.09	-571.53	1.36	-3.433e+04	290.42	-
2.943e+04												
9	72	2.466e+04	308.98	-8.45e-03	-1035.00	0.0	-39.76	467.55	1.45	-3.663e+04	-190.17	-
1.135e+04												
		-2.859e+04	-190.17	-9.75e-03	0.0	345.0	-39.76	-567.45	1.45	-3.663e+04	308.98	-
2.859e+04												
11	2	1.977e+04	339.95	-2.47e-03	-1345.50	0.0	-101.24	651.76	2.22	-8115.86	-427.08	-
3.463e+04												
		-4.187e+04	-427.08	-2.13e-03	0.0	345.0	-101.24	-693.74	2.22	-8115.86	339.95	-
4.187e+04												
11	3	1.435e+04	189.98	-1.55e-03	-1035.00	0.0	-42.95	512.12	1.24	-4505.95	-237.02	-
2.936e+04												
		-3.122e+04	-237.02	-1.18e-03	0.0	345.0	-42.95	-522.88	1.24	-4505.95	189.98	-
3.122e+04												
11	14	1.997e+04	228.38	-2.33e-03	-1035.00	0.0	-43.14	339.49	6.31	-3267.98	-1921.89	770.72
		-6.064e+04	-1921.89	6.63e-03	0.0	345.0	-43.14	-695.51	6.31	-3267.98	228.38	-
6.064e+04												
11	30	1.425e+04	2953.83	-2.04e-03	-1035.00	0.0	-103.73	488.18	39.57	-6255.12	-1.181e+04	-
2.533e+04												
		-3.544e+04	-1.181e+04	-0.01	0.0	345.0	-103.73	-546.82	39.57	-6255.12	2953.83	-
3.544e+04												
11	31	1.439e+04	1.133e+04	2.13e-03	-1035.00	0.0	20.32	535.94	-37.09	-2777.01	1.133e+04	-
3.342e+04												

		-3.342e+04	-2573.11	9.68e-03	0.0	345.0	20.32	-499.06	-37.09	-2777.01	-2573.11	-
2.707e+04												
11	34	1.426e+04	4557.78	-2.09e-03	-1035.00	0.0	-96.16	472.33	49.28	-6235.35	-1.263e+04	-
2.259e+04												
		-3.816e+04	-1.263e+04	-0.01	0.0	345.0	-96.16	-562.67	49.28	-6235.35	4557.78	-
3.816e+04												
11	35	1.457e+04	1.215e+04	2.22e-03	-1035.00	0.0	12.75	551.79	-46.80	-2796.78	1.215e+04	-
3.617e+04												
		-3.617e+04	-4177.06	8.08e-03	0.0	345.0	12.75	-483.21	-46.80	-2796.78	-4177.06	-
2.435e+04												
11	46	2.793e+04	244.51	-2.93e-03	-1035.00	0.0	-47.03	237.61	9.13	-2540.66	-2868.10	1.857e+04
		-7.799e+04	-2868.10	0.01	0.0	345.0	-47.03	-797.39	9.13	-2540.66	244.51	-
7.799e+04												
11	62	1.420e+04	4508.24	-2.36e-03	-1035.00	0.0	-139.31	474.13	62.11	-7278.97	-1.860e+04	-
2.296e+04												
		-3.791e+04	-1.860e+04	-0.02	0.0	345.0	-139.31	-560.87	62.11	-7278.97	4508.24	-
3.791e+04												
11	63	1.461e+04	1.812e+04	2.78e-03	-1035.00	0.0	55.90	549.99	-59.63	-1753.15	1.812e+04	-
3.580e+04												
		-3.580e+04	-4127.52	0.02	0.0	345.0	55.90	-485.01	-59.63	-1753.15	-4127.52	-
2.460e+04												
11	66	1.469e+04	7042.01	-2.43e-03	-1035.00	0.0	-128.76	448.76	77.42	-7237.18	-1.989e+04	-
1.856e+04												
		-4.227e+04	-1.989e+04	-0.02	0.0	345.0	-128.76	-586.24	77.42	-7237.18	7042.01	-
4.227e+04												
11	67	1.490e+04	1.942e+04	2.93e-03	-1035.00	0.0	45.35	575.36	-74.94	-1794.94	1.942e+04	-
4.020e+04												
		-4.020e+04	-6661.29	0.01	0.0	345.0	45.35	-459.64	-74.94	-1794.94	-6661.29	-
2.024e+04												
11	69	1.432e+04	190.36	-1.53e-03	-1035.00	0.0	-41.70	512.06	1.24	-4516.06	-237.58	-
2.938e+04												
		-3.126e+04	-237.58	-1.18e-03	0.0	345.0	-41.70	-522.94	1.24	-4516.06	190.36	-
3.126e+04												
11	70	1.511e+04	251.77	-1.87e-03	-1035.00	0.0	-73.89	502.82	1.65	-6005.97	-316.03	-
2.699e+04												
		-3.206e+04	-316.03	-1.58e-03	0.0	345.0	-73.89	-532.18	1.65	-6005.97	251.77	-
3.206e+04												
11	71	1.432e+04	190.36	-1.53e-03	-1035.00	0.0	-41.70	512.06	1.24	-4516.06	-237.58	-
2.938e+04												
		-3.126e+04	-237.58	-1.18e-03	0.0	345.0	-41.70	-522.94	1.24	-4516.06	190.36	-
3.126e+04												
11	72	1.448e+04	202.64	-1.59e-03	-1035.00	0.0	-48.14	510.21	1.32	-4814.04	-253.27	-
2.890e+04												
		-3.142e+04	-253.27	-1.26e-03	0.0	345.0	-48.14	-524.79	1.32	-4814.04	202.64	-
3.142e+04												
13	1	5.085e+05	32.46	-0.35	-1.010e+04	0.0	-1282.01	5047.96	0.06	-1.48	-4.80	-
2.865e+05												
		-2.865e+05	-4.80	-2.26e-05	0.0	630.0	-1282.01	-5047.86	0.06	-1.48	32.46	-
2.865e+05												
13	2	6.558e+05	40.78	-0.45	-1.303e+04	0.0	-1681.95	6516.21	0.07	-2.07	-3.65	-
3.705e+05												
		-3.705e+05	-3.65	-2.92e-05	0.0	630.0	-1681.95	-6516.09	0.07	-2.07	40.78	-
3.705e+05												
13	3	3.898e+05	25.00	-0.27	-7740.31	0.0	-983.71	3870.19	0.05	-1.15	-3.74	-
2.197e+05												
		-2.197e+05	-3.74	-1.75e-05	0.0	630.0	-983.71	-3870.12	0.05	-1.15	25.00	-
2.197e+05												
13	14	3.907e+05	2397.64	-0.27	-7754.84	0.0	-984.49	3920.88	-8.22	516.52	2397.64	-
2.338e+05												
		-2.338e+05	-2783.37	0.02	0.0	630.0	-984.49	-3833.96	-8.22	516.52	-2783.37	-
2.061e+05												
13	15	3.905e+05	2833.34	-0.27	-7754.84	0.0	-985.70	3834.03	8.31	-518.80	-2405.07	-
2.064e+05												
		-2.340e+05	-2405.07	-0.02	0.0	630.0	-985.70	-3920.80	8.31	-518.80	2833.34	-
2.340e+05												
13	18	3.907e+05	8465.76	-0.27	-7754.84	0.0	-984.59	3920.78	-27.48	634.15	8465.76	-
2.337e+05												
		-2.337e+05	-8851.49	0.01	0.0	630.0	-984.59	-3834.06	-27.48	634.15	-8851.49	-
2.062e+05												
13	24	3.906e+05	8296.55	-0.26	-7754.84	0.0	-984.80	4023.31	26.11	-22.18	-8153.33	-
2.661e+05												
		-2.661e+05	-8153.33	9.67e-03	0.0	630.0	-984.80	-3731.53	26.11	-22.18	8296.55	-
1.741e+05												
13	29	3.906e+05	1.198e+04	-0.28	-7754.84	0.0	-985.06	3731.93	38.19	-372.19	-1.208e+04	-
1.742e+05												
		-2.659e+05	-1.208e+04	2.62e-03	0.0	630.0	-985.06	-4022.91	38.19	-372.19	1.198e+04	-

2.659e+05												
13	32	3.906e+05	1.207e+04	-0.26	-7754.84	0.0	-985.14	4022.98	-38.10	369.91	1.207e+04	-
2.660e+05												
		-2.660e+05	-1.193e+04	-2.64e-03	0.0	630.0	-985.14	-3731.85	-38.10	369.91	-1.193e+04	-
1.742e+05												
13	46	3.908e+05	3777.63	-0.27	-7754.84	0.0	-984.36	3946.55	-12.97	818.06	3777.63	-
2.419e+05												
		-2.419e+05	-4399.16	0.03	0.0	630.0	-984.36	-3808.29	-12.97	818.06	-4399.16	-
1.980e+05												
13	47	3.904e+05	4449.14	-0.27	-7754.84	0.0	-985.84	3808.36	13.06	-820.34	-3785.05	-
1.983e+05												
		-2.422e+05	-3785.05	-0.03	0.0	630.0	-985.84	-3946.48	13.06	-820.34	4449.14	-
2.422e+05												
13	50	3.908e+05	1.340e+04	-0.27	-7754.84	0.0	-984.47	3946.40	-43.53	1004.41	1.340e+04	-
2.418e+05												
		-2.418e+05	-1.403e+04	0.02	0.0	630.0	-984.47	-3808.44	-43.53	1004.41	-1.403e+04	-
1.980e+05												
13	60	3.906e+05	1.862e+04	-0.26	-7754.84	0.0	-984.74	4109.70	58.75	-591.81	-1.840e+04	-
2.932e+05												
		-2.932e+05	-1.840e+04	3.82e-03	0.0	630.0	-984.74	-3645.13	58.75	-591.81	1.862e+04	-
1.470e+05												
13	61	3.906e+05	1.898e+04	-0.28	-7754.84	0.0	-985.09	3646.04	60.53	-588.38	-1.915e+04	-
1.471e+05												
		-2.930e+05	-1.915e+04	4.15e-03	0.0	630.0	-985.09	-4108.80	60.53	-588.38	1.898e+04	-
2.930e+05												
13	64	3.906e+05	1.915e+04	-0.26	-7754.84	0.0	-985.10	4108.87	-60.44	586.10	1.915e+04	-
2.931e+05												
		-2.931e+05	-1.893e+04	-4.16e-03	0.0	630.0	-985.10	-3645.97	-60.44	586.10	-1.893e+04	-
1.472e+05												
13	69	3.906e+05	24.99	-0.27	-7754.84	0.0	-985.10	3877.46	0.05	-1.14	-3.71	-
2.201e+05												
		-2.201e+05	-3.71	-1.74e-05	0.0	630.0	-985.10	-3877.38	0.05	-1.14	24.99	-
2.201e+05												
13	70	4.888e+05	30.53	-0.34	-9712.49	0.0	-1251.73	4856.29	0.05	-1.54	-2.94	-
2.761e+05												
		-2.761e+05	-2.94	-2.18e-05	0.0	630.0	-1251.73	-4856.20	0.05	-1.54	30.53	-
2.761e+05												
13	71	3.906e+05	24.99	-0.27	-7754.84	0.0	-985.10	3877.46	0.05	-1.14	-3.71	-
2.201e+05												
		-2.201e+05	-3.71	-1.74e-05	0.0	630.0	-985.10	-3877.38	0.05	-1.14	24.99	-
2.201e+05												
13	72	4.102e+05	26.10	-0.28	-8146.37	0.0	-1038.42	4073.22	0.05	-1.22	-3.56	-
2.313e+05												
		-2.313e+05	-3.56	-1.83e-05	0.0	630.0	-1038.42	-4073.15	0.05	-1.22	26.10	-
2.313e+05												
14	2	1.975e+04	491.31	-2.46e-03	-1345.50	0.0	-101.07	651.65	-2.45	8112.16	491.31	-
3.463e+04												
		-4.191e+04	-352.80	2.16e-03	0.0	345.0	-101.07	-693.85	-2.45	8112.16	-352.80	-
4.191e+04												
14	3	1.434e+04	275.60	-1.55e-03	-1035.00	0.0	-42.74	512.07	-1.37	4503.92	275.60	-
2.936e+04												
		-3.124e+04	-196.69	1.20e-03	0.0	345.0	-42.74	-522.93	-1.37	4503.92	-196.69	-
3.124e+04												
14	5	2.001e+04	2109.61	-2.35e-03	-1035.00	0.0	-45.10	338.95	-7.26	3290.53	2109.61	871.79
		-6.073e+04	-367.66	-6.72e-03	0.0	345.0	-45.10	-696.05	-7.26	3290.53	-367.66	-
6.073e+04												
14	29	1.427e+04	1.271e+04	-2.10e-03	-1035.00	0.0	-96.75	471.89	-49.62	6244.81	1.271e+04	-
2.250e+04												
		-3.823e+04	-4599.41	0.01	0.0	345.0	-96.75	-563.11	-49.62	6244.81	-4599.41	-
3.823e+04												
14	32	1.455e+04	4205.19	2.24e-03	-1035.00	0.0	13.73	552.11	46.87	2783.28	-1.216e+04	-
3.625e+04												
		-3.625e+04	-1.216e+04	-8.03e-03	0.0	345.0	13.73	-482.89	46.87	2783.28	4205.19	-
2.432e+04												
14	33	1.425e+04	1.179e+04	-2.05e-03	-1035.00	0.0	-103.83	487.69	-39.96	6253.06	1.179e+04	-
2.524e+04												
		-3.552e+04	-2997.82	0.01	0.0	345.0	-103.83	-547.31	-39.96	6253.06	-2997.82	-
3.552e+04												
14	36	1.436e+04	2603.60	2.15e-03	-1035.00	0.0	20.82	536.31	37.21	2775.04	-1.124e+04	-
3.351e+04												
		-3.351e+04	-1.124e+04	-9.62e-03	0.0	345.0	20.82	-498.69	37.21	2775.04	2603.60	-
2.703e+04												
14	37	2.802e+04	3146.27	-2.96e-03	-1035.00	0.0	-49.53	236.78	-10.56	2578.15	3146.27	1.873e+04
		-7.812e+04	-460.43	-0.01	0.0	345.0	-49.53	-798.22	-10.56	2578.15	-460.43	-
7.812e+04												
14	61	1.473e+04	2.000e+04	-2.45e-03	-1035.00	0.0	-129.59	448.11	-77.89	7252.85	2.000e+04	-

1.843e+04													
		-4.236e+04	-7104.25	0.02	0.0	345.0	-129.59	-586.89	-77.89	7252.25	-7104.25		-
4.236e+04													
14	64	1.487e+04	6710.03	2.96e-03	-1035.00	0.0	46.58	575.89	75.14	1775.25	-1.944e+04		-
4.032e+04													
		-4.032e+04	-1.944e+04	-0.01	0.0	345.0	46.58	-459.11	75.14	1775.25	6710.03		-
2.019e+04													
14	65	1.422e+04	1.854e+04	-2.37e-03	-1035.00	0.0	-139.38	473.39	-62.65	7275.36	1.854e+04		-
2.281e+04													
		-3.802e+04	-4573.89	0.02	0.0	345.0	-139.38	-561.61	-62.65	7275.36	-4573.89		-
3.802e+04													
14	68	1.458e+04	4179.67	2.81e-03	-1035.00	0.0	56.36	550.62	59.90	1752.73	-1.799e+04		-
3.594e+04													
		-3.594e+04	-1.799e+04	-0.02	0.0	345.0	56.36	-484.38	59.90	1752.73	4179.67		-
2.453e+04													
14	69	1.431e+04	276.13	-1.52e-03	-1035.00	0.0	-41.51	512.00	-1.37	4514.05	276.13		-
2.938e+04													
		-3.127e+04	-197.11	1.20e-03	0.0	345.0	-41.51	-523.00	-1.37	4514.05	-197.11		-
3.127e+04													
14	70	1.510e+04	364.00	-1.86e-03	-1035.00	0.0	-73.74	502.74	-1.81	6003.23	364.00		-
2.699e+04													
		-3.208e+04	-261.20	1.60e-03	0.0	345.0	-73.74	-532.26	-1.81	6003.23	-261.20		-
3.208e+04													
14	71	1.431e+04	276.13	-1.52e-03	-1035.00	0.0	-41.51	512.00	-1.37	4514.05	276.13		-
2.938e+04													
		-3.127e+04	-197.11	1.20e-03	0.0	345.0	-41.51	-523.00	-1.37	4514.05	-197.11		-
3.127e+04													
14	72	1.447e+04	293.70	-1.59e-03	-1035.00	0.0	-47.95	510.15	-1.46	4811.88	293.70		-
2.890e+04													
		-3.144e+04	-209.93	1.28e-03	0.0	345.0	-47.95	-524.85	-1.46	4811.88	-209.93		-
3.144e+04													
16	2	1.963e+04	239.93	-3.46e-03	-1345.50	0.0	-100.09	692.22	-1.84	7978.02	239.93		-
4.176e+04													
		-4.176e+04	-393.64	2.18e-03	0.0	345.0	-100.09	-653.28	-1.84	7978.02	-393.64		-
3.504e+04													
16	3	1.426e+04	134.28	-2.56e-03	-1035.00	0.0	-42.21	521.97	-1.03	4425.84	134.28		-
3.114e+04													
		-3.114e+04	-220.02	1.21e-03	0.0	345.0	-42.21	-513.03	-1.03	4425.84	-220.02		-
2.960e+04													
16	20	1.974e+04	83.60	-2.83e-03	-1035.00	0.0	-44.44	694.17	-5.64	3165.27	83.60		-
6.047e+04													
		-6.047e+04	-1827.18	-6.98e-03	0.0	345.0	-44.44	-340.83	-5.64	3165.27	-1827.18	487.50	
16	21	1.431e+04	1.100e+04	-3.18e-03	-1035.00	0.0	20.50	497.75	35.70	2739.36	-2395.07		-
2.692e+04													
		-3.373e+04	-2395.07	-9.26e-03	0.0	345.0	20.50	-537.25	35.70	2739.36	1.100e+04		-
3.373e+04													
16	24	1.421e+04	2664.23	-1.96e-03	-1035.00	0.0	-102.42	546.32	-37.76	6132.36	2664.23		-
3.544e+04													
		-3.544e+04	-1.144e+04	0.01	0.0	345.0	-102.42	-488.68	-37.76	6132.36	-1.144e+04		-
2.551e+04													
16	25	1.429e+04	1.183e+04	-3.20e-03	-1035.00	0.0	13.67	481.93	45.18	2758.15	-3948.66		-
2.421e+04													
		-3.647e+04	-3948.66	-7.82e-03	0.0	345.0	13.67	-553.07	45.18	2758.15	1.183e+04		-
3.647e+04													
16	28	1.450e+04	4217.82	-1.93e-03	-1035.00	0.0	-95.59	562.14	-47.24	6113.57	4217.82		-
3.815e+04													
		-3.815e+04	-1.227e+04	0.01	0.0	345.0	-95.59	-472.86	-47.24	6113.57	-1.227e+04		-
2.276e+04													
16	52	2.773e+04	46.68	-3.20e-03	-1035.00	0.0	-48.99	795.79	-8.17	2425.11	46.68		-
7.776e+04													
		-7.776e+04	-2719.38	-0.01	0.0	345.0	-48.99	-239.21	-8.17	2425.11	-2719.38	1.826e+04	
16	53	1.436e+04	1.758e+04	-3.54e-03	-1035.00	0.0	55.39	483.49	57.30	1741.84	-3802.65		-
2.441e+04													
		-3.614e+04	-3802.65	-0.02	0.0	345.0	55.39	-551.51	57.30	1741.84	1.758e+04		-
3.614e+04													
16	56	1.441e+04	4071.80	-1.61e-03	-1035.00	0.0	-137.31	560.58	-59.36	7129.89	4071.80		-
3.795e+04													
		-3.795e+04	-1.802e+04	0.02	0.0	345.0	-137.31	-474.42	-59.36	7129.89	-1.802e+04		-
2.309e+04													
16	57	1.468e+04	1.889e+04	-3.58e-03	-1035.00	0.0	46.09	458.16	72.23	1781.38	-6255.76		-
2.007e+04													
		-4.053e+04	-6255.76	-0.01	0.0	345.0	46.09	-576.84	72.23	1781.38	1.889e+04		-
4.053e+04													
16	60	1.487e+04	6524.92	-1.55e-03	-1035.00	0.0	-128.00	585.91	-74.29	7090.35	6524.92		-
4.229e+04													
		-4.229e+04	-1.933e+04	0.02	0.0	345.0	-128.00	-449.09	-74.29	7090.35	-1.933e+04		-

1.870e+04												
16	69	1.423e+04	134.58	-2.57e-03	-1035.00	0.0	-40.96	522.03	-1.03	4435.86	134.58	-
3.118e+04												
		-3.118e+04	-220.49	1.21e-03	0.0	345.0	-40.96	-512.97	-1.03	4435.86	-220.49	-
2.962e+04												
16	70	1.500e+04	177.70	-2.64e-03	-1035.00	0.0	-73.02	531.04	-1.36	5903.45	177.70	-
3.197e+04												
		-3.197e+04	-291.52	1.61e-03	0.0	345.0	-73.02	-503.96	-1.36	5903.45	-291.52	-
2.730e+04												
16	71	1.423e+04	134.58	-2.57e-03	-1035.00	0.0	-40.96	522.03	-1.03	4435.86	134.58	-
3.118e+04												
		-3.118e+04	-220.49	1.21e-03	0.0	345.0	-40.96	-512.97	-1.03	4435.86	-220.49	-
2.962e+04												
16	72	1.439e+04	143.20	-2.58e-03	-1035.00	0.0	-47.37	523.83	-1.10	4729.38	143.20	-
3.134e+04												
		-3.134e+04	-234.69	1.29e-03	0.0	345.0	-47.37	-511.17	-1.10	4729.38	-234.69	-
2.915e+04												
18	2	7.371e+05	-31.48	-0.50	-1.547e+04	0.0	-1809.64	7736.44	0.13	-1.87	-111.72	-
4.814e+05												
		-4.814e+05	-111.72	1.20e-04	0.0	630.0	-1809.64	-7736.33	0.13	-1.87	-31.48	-
4.814e+05												
18	3	4.348e+05	-14.40	-0.29	-9090.39	0.0	-1053.95	4545.23	0.08	-1.14	-65.81	-
2.810e+05												
		-2.810e+05	-65.81	6.69e-05	0.0	630.0	-1053.95	-4545.16	0.08	-1.14	-14.40	-
2.810e+05												
18	14	4.378e+05	7014.91	-0.29	-9108.27	0.0	-1095.99	4611.44	-20.71	560.94	7014.91	-
2.955e+05												
		-2.955e+05	-6059.04	0.02	0.0	630.0	-1095.99	-4496.83	-20.71	560.94	-6059.04	-
2.634e+05												
18	17	4.378e+05	2366.25	-0.30	-9108.27	0.0	-1096.43	4529.58	-5.95	538.85	2366.25	-
2.698e+05												
		-2.892e+05	-1409.85	0.02	0.0	630.0	-1096.43	-4578.69	-5.95	538.85	-1409.85	-
2.892e+05												
18	20	4.336e+05	1380.74	-0.29	-9108.27	0.0	-1014.65	4578.76	6.11	-541.11	-2497.80	-
2.934e+05												
		-2.934e+05	-2497.80	-0.02	0.0	630.0	-1014.65	-4529.51	6.11	-541.11	1380.74	-
2.739e+05												
18	27	4.351e+05	5370.80	-0.30	-9108.27	0.0	-1043.90	4383.12	17.66	-67.00	-5761.84	-
2.289e+05												
		-3.355e+05	-5761.84	-9.50e-03	0.0	630.0	-1043.90	-4725.16	17.66	-67.00	5370.80	-
3.355e+05												
18	29	4.363e+05	1.341e+04	-0.30	-9108.27	0.0	-1068.59	4448.54	42.18	-373.00	-1.318e+04	-
2.483e+05												
		-3.137e+05	-1.318e+04	2.73e-03	0.0	630.0	-1068.59	-4659.73	42.18	-373.00	1.341e+04	-
3.137e+05												
18	32	4.351e+05	1.304e+04	-0.29	-9108.27	0.0	-1042.49	4659.80	-42.02	370.75	1.304e+04	-
3.149e+05												
		-3.149e+05	-1.344e+04	-2.64e-03	0.0	630.0	-1042.49	-4448.48	-42.02	370.75	-1.344e+04	-
2.494e+05												
18	46	4.389e+05	1.107e+04	-0.29	-9108.27	0.0	-1118.72	4645.02	-32.59	890.24	1.107e+04	-
3.039e+05												
		-3.039e+05	-9504.80	0.03	0.0	630.0	-1118.72	-4463.25	-32.59	890.24	-9504.80	-
2.527e+05												
18	49	4.389e+05	3806.38	-0.30	-9108.27	0.0	-1119.25	4514.92	-9.54	857.85	3806.38	-
2.629e+05												
		-2.937e+05	-2243.81	0.03	0.0	630.0	-1119.25	-4593.35	-9.54	857.85	-2243.81	-
2.937e+05												
18	52	4.325e+05	2214.69	-0.29	-9108.27	0.0	-991.83	4593.42	9.70	-860.11	-3937.93	-
3.002e+05												
		-3.002e+05	-3937.93	-0.03	0.0	630.0	-991.83	-4514.85	9.70	-860.11	2214.69	-
2.694e+05												
18	59	4.347e+05	8261.53	-0.31	-9108.27	0.0	-1037.19	4282.24	27.12	-111.09	-8834.54	-
1.978e+05												
		-3.673e+05	-8834.54	-0.02	0.0	630.0	-1037.19	-4826.03	27.12	-111.09	8261.53	-
3.673e+05												
18	61	4.366e+05	2.115e+04	-0.30	-9108.27	0.0	-1075.59	4386.51	66.47	-575.34	-2.074e+04	-
2.287e+05												
		-3.326e+05	-2.074e+04	4.26e-03	0.0	630.0	-1075.59	-4721.76	66.47	-575.34	2.115e+04	-
3.326e+05												
18	64	4.348e+05	2.060e+04	-0.28	-9108.27	0.0	-1035.49	4721.83	-66.31	573.08	2.060e+04	-
3.344e+05												
		-3.344e+05	-2.118e+04	4.19e-03	0.0	630.0	-1035.49	-4386.44	-66.31	573.08	-2.118e+04	-
2.305e+05												
18	69	4.357e+05	-14.56	-0.29	-9108.27	0.0	-1055.54	4554.17	0.08	-1.13	-65.77	-
2.816e+05												
		-2.816e+05	-65.77	6.71e-05	0.0	630.0	-1055.54	-4554.10	0.08	-1.13	-14.56	-

2.815e+05													
18	70	5.489e+05	-22.82	-0.37	-1.152e+04	0.0	-1346.10	5758.89	0.10	-1.40	-83.27		-
3.581e+05													
		-3.581e+05	-83.27	8.89e-05	0.0	630.0	-1346.10	-5758.81	0.10	-1.40	-22.82		-
3.581e+05													
18	71	4.357e+05	-14.56	-0.29	-9108.27	0.0	-1055.54	4554.17	0.08	-1.13	-65.77		-
2.816e+05													
		-2.816e+05	-65.77	6.71e-05	0.0	630.0	-1055.54	-4554.10	0.08	-1.13	-14.56		-
2.815e+05													
18	72	4.583e+05	-16.21	-0.31	-9590.16	0.0	-1113.65	4795.11	0.08	-1.18	-69.27		-
2.969e+05													
		-2.969e+05	-69.27	7.14e-05	0.0	630.0	-1113.65	-4795.04	0.08	-1.18	-16.21		-
2.968e+05													
19	2	1.963e+04	352.97	-3.49e-03	-1345.50	0.0	-99.96	692.59	1.54	-7968.45	-177.38		-
4.182e+04													
		-4.182e+04	-177.38	-2.06e-03	0.0	345.0	-99.96	-652.91	1.54	-7968.45	352.97		-
3.497e+04													
19	3	1.426e+04	194.34	-2.57e-03	-1035.00	0.0	-42.03	522.18	0.84	-4420.22	-94.78		-
3.118e+04													
		-3.118e+04	-94.78	-1.14e-03	0.0	345.0	-42.03	-512.82	0.84	-4420.22	194.34		-
2.956e+04													
19	11	1.978e+04	1970.07	-2.86e-03	-1035.00	0.0	-41.91	694.80	6.41	-3183.04	-205.44		-
6.057e+04													
		-6.057e+04	-205.44	6.63e-03	0.0	345.0	-41.91	-340.20	6.41	-3183.04	1970.07	596.09	
19	22	1.428e+04	4038.41	-3.22e-03	-1035.00	0.0	13.26	482.18	-45.66	-2747.27	4038.41		-
2.426e+04													
		-3.644e+04	-1.191e+04	8.00e-03	0.0	345.0	13.26	-552.82	-45.66	-2747.27	-1.191e+04		-
3.644e+04													
19	23	1.451e+04	1.230e+04	-1.94e-03	-1035.00	0.0	-94.86	562.31	47.34	-6113.25	-4228.75		-
3.817e+04													
		-3.817e+04	-4228.75	-0.01	0.0	345.0	-94.86	-472.69	47.34	-6113.25	1.230e+04		-
2.272e+04													
19	26	1.430e+04	2487.15	-3.19e-03	-1035.00	0.0	20.66	497.95	-36.23	-2740.14	2487.15		-
2.697e+04													
		-3.370e+04	-1.097e+04	9.42e-03	0.0	345.0	20.66	-537.05	-36.23	-2740.14	-1.097e+04		-
3.370e+04													
19	27	1.422e+04	1.136e+04	-1.97e-03	-1035.00	0.0	-102.26	546.54	37.91	-6120.38	-2677.49		-
3.547e+04													
		-3.547e+04	-2677.49	-0.01	0.0	345.0	-102.26	-488.46	37.91	-6120.38	1.136e+04		-
2.546e+04													
19	43	2.781e+04	2964.03	-3.22e-03	-1035.00	0.0	-45.94	796.67	9.51	-2456.99	-262.77		-
7.790e+04													
		-7.790e+04	-262.77	0.01	0.0	345.0	-45.94	-238.33	9.51	-2456.99	2964.03	1.841e+04	
19	54	1.465e+04	6374.80	-3.60e-03	-1035.00	0.0	45.83	458.42	-72.89	-1767.20	6374.80		-
2.013e+04													
		-4.050e+04	-1.900e+04	0.01	0.0	345.0	45.83	-576.58	-72.89	-1767.20	-1.900e+04		-
4.050e+04													
19	55	1.489e+04	1.939e+04	-1.56e-03	-1035.00	0.0	-127.43	586.07	74.57	-7093.32	-6565.14		-
4.231e+04													
		-4.231e+04	-6565.14	-0.02	0.0	345.0	-127.43	-448.93	74.57	-7093.32	1.939e+04		-
1.866e+04													
19	58	1.434e+04	3925.18	-3.56e-03	-1035.00	0.0	56.04	483.66	-58.02	-1747.15	3925.18		-
2.446e+04													
		-3.613e+04	-1.752e+04	0.02	0.0	345.0	56.04	-551.34	-58.02	-1747.15	-1.752e+04		-
3.613e+04													
19	59	1.443e+04	1.791e+04	-1.61e-03	-1035.00	0.0	-137.64	560.83	59.71	-7113.37	-4115.52		-
3.797e+04													
		-3.797e+04	-4115.52	-0.02	0.0	345.0	-137.64	-474.17	59.71	-7113.37	1.791e+04		-
2.304e+04													
19	69	1.423e+04	194.80	-2.58e-03	-1035.00	0.0	-40.80	522.25	0.84	-4430.26	-95.17		-
3.122e+04													
		-3.122e+04	-95.17	-1.14e-03	0.0	345.0	-40.80	-512.75	0.84	-4430.26	194.80		-
2.958e+04													
19	70	1.500e+04	260.98	-2.66e-03	-1035.00	0.0	-72.91	531.32	1.14	-5896.31	-130.68		-
3.202e+04													
		-3.202e+04	-130.68	-1.52e-03	0.0	345.0	-72.91	-503.68	1.14	-5896.31	260.98		-
2.725e+04													
19	71	1.423e+04	194.80	-2.58e-03	-1035.00	0.0	-40.80	522.25	0.84	-4430.26	-95.17		-
3.122e+04													
		-3.122e+04	-95.17	-1.14e-03	0.0	345.0	-40.80	-512.75	0.84	-4430.26	194.80		-
2.958e+04													
19	72	1.439e+04	208.03	-2.60e-03	-1035.00	0.0	-47.22	524.06	0.90	-4723.47	-102.27		-
3.138e+04													
		-3.138e+04	-102.27	-1.22e-03	0.0	345.0	-47.22	-510.94	0.90	-4723.47	208.03		-
2.911e+04													
21	1	3.243e+04	149.96	7.16e-03	-1345.50	0.0	-45.73	745.23	1.34	-4.465e+04	-312.58		-

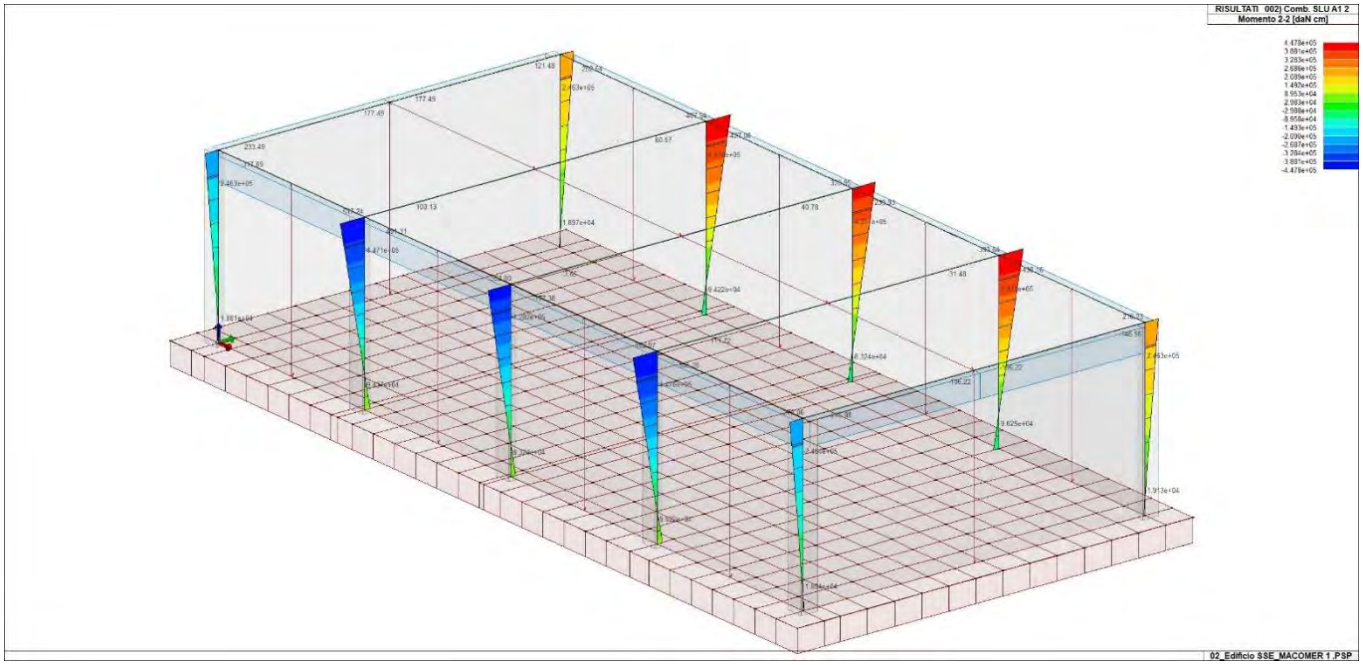
3.874e+04													
		-3.874e+04	-312.58	-0.01	0.0	345.0	-45.73	-600.27	1.34	-4.465e+04	149.96	-	
1.374e+04													
	21	2 3.282e+04	216.23	0.01	-1345.50	0.0	-72.99	715.21	1.90	-6.190e+04	-438.16	-	
3.253e+04													
		-3.253e+04	-438.16	-0.02	0.0	345.0	-72.99	-630.29	1.90	-6.190e+04	216.23	-	
1.788e+04													
	21	3 2.492e+04	114.69	5.66e-03	-1035.00	0.0	-36.52	572.41	1.03	-3.419e+04	-239.27	-	
2.966e+04													
		-2.966e+04	-239.27	-9.01e-03	0.0	345.0	-36.52	-462.59	1.03	-3.419e+04	114.69	-	
1.072e+04													
	21	8 3.460e+04	1.536e+04	0.01	-1035.00	0.0	-16.19	702.88	71.12	-3.540e+04	-9223.02	-	
4.757e+04													
		-4.757e+04	-9223.02	-9.87e-03	0.0	345.0	-16.19	-332.12	71.12	-3.540e+04	1.536e+04	1.639e+04	
	21	14 2.152e+04	-2614.78	-3.64e-03	-1035.00	0.0	-123.18	375.34	-2.88	-3.425e+04	-2614.78	-1928.29	
		-5.098e+04	-3893.06	-9.67e-03	0.0	345.0	-123.18	-659.66	-2.88	-3.425e+04	-3893.06	-	
5.098e+04													
	21	15 4.137e+04	4123.19	0.01	-1035.00	0.0	51.66	770.44	4.94	-3.430e+04	2134.91	-	
5.755e+04													
		-5.755e+04	2134.91	-8.40e-03	0.0	345.0	51.66	-264.56	4.94	-3.430e+04	4123.19	2.971e+04	
	21	19 4.035e+04	4317.76	0.01	-1035.00	0.0	45.52	764.00	10.36	-3.411e+04	516.88	-	
5.756e+04													
		-5.756e+04	516.88	-7.21e-03	0.0	345.0	45.52	-271.00	10.36	-3.411e+04	4317.76	2.835e+04	
	21	20 4.162e+04	1.025e+04	0.01	-1035.00	0.0	33.39	770.59	42.19	-3.576e+04	-4666.89	-	
5.669e+04													
		-5.669e+04	-4666.89	-0.02	0.0	345.0	33.39	-264.41	42.19	-3.576e+04	1.025e+04	2.976e+04	
	21	24 2.663e+04	1.427e+04	7.58e-03	-1035.00	0.0	-66.91	602.36	86.78	-3.655e+04	-1.570e+04	-	
3.379e+04													
		-3.379e+04	-1.570e+04	-0.02	0.0	345.0	-66.91	-432.64	86.78	-3.655e+04	1.427e+04	-4522.95	
	21	46 2.563e+04	-4114.52	-4.46e-03	-1035.00	0.0	-171.37	258.81	-4.21	-3.428e+04	-4114.52	1.447e+04	
		-7.479e+04	-6022.87	-0.01	0.0	345.0	-171.37	-776.19	-4.21	-3.428e+04	-6022.87	-	
7.479e+04													
	21	47 5.717e+04	6252.99	0.02	-1035.00	0.0	99.86	886.96	6.27	-3.427e+04	3634.65	-	
7.395e+04													
		-7.395e+04	3634.65	-8.11e-03	0.0	345.0	99.86	-148.04	6.27	-3.427e+04	6252.99	5.352e+04	
	21	49 2.460e+04	6551.77	-4.23e-03	-1035.00	0.0	-142.59	258.51	-62.61	-3.199e+04	6551.77	1.313e+04	
		-7.487e+04	-1.562e+04	6.04e-03	0.0	345.0	-142.59	-776.49	-62.61	-3.199e+04	-1.562e+04	-	
7.487e+04													
	21	52 5.744e+04	1.585e+04	0.02	-1035.00	0.0	71.08	887.26	64.67	-3.657e+04	-7031.64	-	
7.261e+04													
		-7.261e+04	-7031.64	-0.02	0.0	345.0	71.08	-147.74	64.67	-3.657e+04	1.585e+04	5.360e+04	
	21	53 2.282e+04	2.419e+04	-3.28e-03	-1035.00	0.0	16.85	525.85	-134.17	-3.075e+04	2.419e+04	-	
2.325e+04													
		-2.325e+04	-2.215e+04	0.01	0.0	345.0	16.85	-509.15	-134.17	-3.075e+04	-2.215e+04	-	
2.037e+04													
	21	56 2.770e+04	2.238e+04	8.78e-03	-1035.00	0.0	-88.37	619.92	136.23	-3.781e+04	-2.466e+04	-	
3.623e+04													
		-3.623e+04	-2.466e+04	-0.03	0.0	345.0	-88.37	-415.08	136.23	-3.781e+04	2.238e+04	-899.46	
	21	69 2.493e+04	115.06	5.57e-03	-1035.00	0.0	-35.76	572.89	1.03	-3.428e+04	-239.93	-	
2.974e+04													
		-2.974e+04	-239.93	-9.04e-03	0.0	345.0	-35.76	-462.11	1.03	-3.428e+04	115.06	-	
1.063e+04													
	21	70 2.517e+04	159.24	9.37e-03	-1035.00	0.0	-53.94	552.87	1.40	-4.578e+04	-323.66	-	
2.560e+04													
		-2.560e+04	-323.66	-0.01	0.0	345.0	-53.94	-482.13	1.40	-4.578e+04	159.24	-	
1.340e+04													
	21	71 2.493e+04	115.06	5.57e-03	-1035.00	0.0	-35.76	572.89	1.03	-3.428e+04	-239.93	-	
2.974e+04													
		-2.974e+04	-239.93	-9.04e-03	0.0	345.0	-35.76	-462.11	1.03	-3.428e+04	115.06	-	
1.063e+04													
	21	72 2.498e+04	123.90	6.33e-03	-1035.00	0.0	-39.39	568.88	1.10	-3.658e+04	-256.68	-	
2.891e+04													
		-2.891e+04	-256.68	-9.64e-03	0.0	345.0	-39.39	-466.12	1.10	-3.658e+04	123.90	-	
1.119e+04													
	23	2 3.791e+05	-196.22	-0.27	-3465.56	0.0	-886.55	3465.72	0.16	16.11	-245.88	-	
1.668e+05													
		-1.668e+05	-245.88	3.28e-04	0.0	315.0	-886.55	0.15	0.16	16.11	-196.22	3.791e+05	
	23	3 2.369e+05	-110.31	-0.17	-2182.55	0.0	-539.65	2182.65	0.10	10.13	-142.17	-	
1.068e+05													
		-1.068e+05	-142.17	1.84e-04	0.0	315.0	-539.65	0.10	0.10	10.13	-110.31	2.369e+05	
	23	14 2.422e+05	1.685e+04	-0.17	-2185.62	0.0	-527.34	2254.17	-107.22	2673.07	1.685e+04	-	
1.245e+05													
		-1.245e+05	-1.704e+04	0.02	0.0	315.0	-527.34	68.55	-107.22	2673.07	-1.704e+04	2.422e+05	
	23	15 2.324e+05	1.682e+04	-0.17	-2185.62	0.0	-553.07	2117.27	107.42	-2652.83	-1.713e+04	-	
8.944e+04													
		-8.944e+04	-1.713e+04	-0.02	0.0	315.0	-553.07	-68.35	107.42	-2652.83	1.682e+04	2.324e+05	

23	19	2.326e+05	1.689e+04	-0.17	-2185.62	0.0	-568.13	2138.89	106.50	-2652.14	-1.686e+04	-
9.594e+04												
		-9.594e+04	-1.686e+04	-0.02	0.0	315.0	-568.13	-46.74	106.50	-2652.14	1.689e+04	2.326e+05
23	21	2.376e+05	-5171.20	-0.18	-2185.62	0.0	-443.06	2047.46	5.17	516.28	-6728.45	-
6.553e+04												
		-6.553e+04	-6728.45	1.97e-03	0.0	315.0	-443.06	-138.17	5.17	516.28	-5171.20	2.369e+05
23	24	2.377e+05	6443.93	-0.16	-2185.62	0.0	-637.35	2323.98	-4.97	-496.04	6443.93	-
1.484e+05												
		-1.484e+05	4950.16	-1.72e-03	0.0	315.0	-637.35	138.36	-4.97	-496.04	4950.16	2.377e+05
23	26	2.403e+05	1.319e+04	-0.16	-2185.62	0.0	-612.70	2326.87	-58.25	672.76	1.319e+04	-
1.487e+05												
		-1.487e+05	-5198.34	8.66e-03	0.0	315.0	-612.70	141.25	-58.25	672.76	-5198.34	2.403e+05
23	46	2.442e+05	2.661e+04	-0.17	-2185.62	0.0	-519.75	2291.93	-168.46	4214.21	2.661e+04	-
1.347e+05												
		-1.347e+05	-2.662e+04	0.03	0.0	315.0	-519.75	106.30	-168.46	4214.21	-2.662e+04	2.442e+05
23	47	2.304e+05	2.640e+04	-0.17	-2185.62	0.0	-560.66	2079.51	168.66	-4193.96	-2.690e+04	-
7.927e+04												
		-7.927e+04	-2.690e+04	-0.03	0.0	315.0	-560.66	-106.11	168.66	-4193.96	2.640e+04	2.304e+05
23	53	2.396e+05	-8036.88	-0.18	-2185.62	0.0	-387.54	1968.00	8.43	785.49	-1.058e+04	-
4.130e+04												
		-4.130e+04	-1.058e+04	3.03e-03	0.0	315.0	-387.54	-217.62	8.43	785.49	-8036.88	2.364e+05
23	56	2.382e+05	1.030e+04	-0.15	-2185.62	0.0	-692.87	2403.44	-8.23	-765.25	1.030e+04	-
1.726e+05												
		-1.726e+05	7815.83	-2.77e-03	0.0	315.0	-692.87	217.81	-8.23	-765.25	7815.83	2.382e+05
23	58	2.418e+05	2.085e+04	-0.16	-2185.62	0.0	-653.87	2408.96	-91.64	1061.33	2.085e+04	-
1.732e+05												
		-1.732e+05	-8074.18	0.01	0.0	315.0	-653.87	223.33	-91.64	1061.33	-8074.18	2.418e+05
23	69	2.373e+05	-110.52	-0.17	-2185.62	0.0	-540.20	2185.72	0.10	10.12	-142.26	-
1.070e+05												
		-1.070e+05	-142.26	1.84e-04	0.0	315.0	-540.20	0.10	0.10	10.12	-110.52	2.373e+05
23	70	2.841e+05	-145.41	-0.20	-2599.74	0.0	-662.69	2599.86	0.12	12.09	-182.83	-
1.254e+05												
		-1.254e+05	-182.83	2.43e-04	0.0	315.0	-662.69	0.12	0.12	12.09	-145.41	2.841e+05
23	71	2.373e+05	-110.52	-0.17	-2185.62	0.0	-540.20	2185.72	0.10	10.12	-142.26	-
1.070e+05												
		-1.070e+05	-142.26	1.84e-04	0.0	315.0	-540.20	0.10	0.10	10.12	-110.52	2.373e+05
23	72	2.467e+05	-117.50	-0.18	-2268.45	0.0	-564.70	2268.55	0.10	10.52	-150.37	-
1.106e+05												
		-1.106e+05	-150.37	1.96e-04	0.0	315.0	-564.70	0.10	0.10	10.52	-117.50	2.467e+05
24	1	3.248e+04	367.04	7.21e-03	-1345.50	0.0	-44.91	745.09	-1.63	4.464e+04	367.04	-
3.867e+04												
		-3.867e+04	-195.07	0.01	0.0	345.0	-44.91	-600.41	-1.63	4.464e+04	-195.07	-
1.371e+04												
24	2	3.288e+04	505.25	0.01	-1345.50	0.0	-72.08	714.99	-2.25	6.189e+04	505.25	-
3.243e+04												
		-3.243e+04	-272.06	0.02	0.0	345.0	-72.08	-630.51	-2.25	6.189e+04	-272.06	-
1.786e+04												
24	3	2.496e+04	281.36	5.71e-03	-1035.00	0.0	-35.87	572.31	-1.25	3.418e+04	281.36	-
2.960e+04												
		-2.960e+04	-149.55	9.11e-03	0.0	345.0	-35.87	-462.69	-1.25	3.418e+04	-149.55	-
1.069e+04												
24	5	2.157e+04	3757.75	-3.67e-03	-1035.00	0.0	-123.49	374.98	2.24	3.425e+04	2691.20	-1834.09
		-5.101e+04	2691.20	9.76e-03	0.0	345.0	-123.49	-660.02	2.24	3.425e+04	3757.75	-
5.101e+04												
24	8	4.143e+04	-2127.37	0.01	-1035.00	0.0	53.24	770.58	-4.74	3.429e+04	-2127.37	-
5.753e+04												
		-5.753e+04	-4057.43	8.50e-03	0.0	345.0	53.24	-264.42	-4.74	3.429e+04	-4057.43	2.979e+04
24	11	4.167e+04	4668.33	0.01	-1035.00	0.0	34.81	770.63	-41.92	3.575e+04	4668.33	-
5.666e+04												
		-5.666e+04	-1.017e+04	0.02	0.0	345.0	34.81	-264.37	-41.92	3.575e+04	-1.017e+04	2.981e+04
24	15	3.467e+04	9206.58	0.01	-1035.00	0.0	-16.34	703.09	-70.88	3.539e+04	9206.58	-
4.755e+04												
		-4.755e+04	-1.529e+04	9.96e-03	0.0	345.0	-16.34	-331.91	-70.88	3.539e+04	-1.529e+04	1.648e+04
24	27	2.666e+04	1.573e+04	7.62e-03	-1035.00	0.0	-66.72	602.11	-86.88	3.655e+04	1.573e+04	-
3.371e+04												
		-3.371e+04	-1.428e+04	0.02	0.0	345.0	-66.72	-432.89	-86.88	3.655e+04	-1.428e+04	-4524.97
24	37	2.570e+04	5814.52	-4.50e-03	-1035.00	0.0	-171.96	258.33	3.25	3.429e+04	4218.30	1.458e+04
		-7.485e+04	4218.30	0.01	0.0	345.0	-171.96	-776.67	3.25	3.429e+04	5814.52	-
7.485e+04												
24	40	5.726e+04	-3654.47	0.02	-1035.00	0.0	101.72	887.23	-5.76	3.425e+04	-3654.47	-
7.394e+04												
		-7.394e+04	-6114.20	8.18e-03	0.0	345.0	101.72	-147.77	-5.76	3.425e+04	-6114.20	5.363e+04
24	42	2.467e+04	1.540e+04	-4.27e-03	-1035.00	0.0	-142.92	258.16	61.59	3.199e+04	-6442.02	1.322e+04
		-7.489e+04	-6442.02	-5.94e-03	0.0	345.0	-142.92	-776.84	61.59	3.199e+04	1.540e+04	-
7.489e+04												
24	43	5.750e+04	7005.85	0.02	-1035.00	0.0	72.67	887.41	-64.09	3.655e+04	7005.85	-

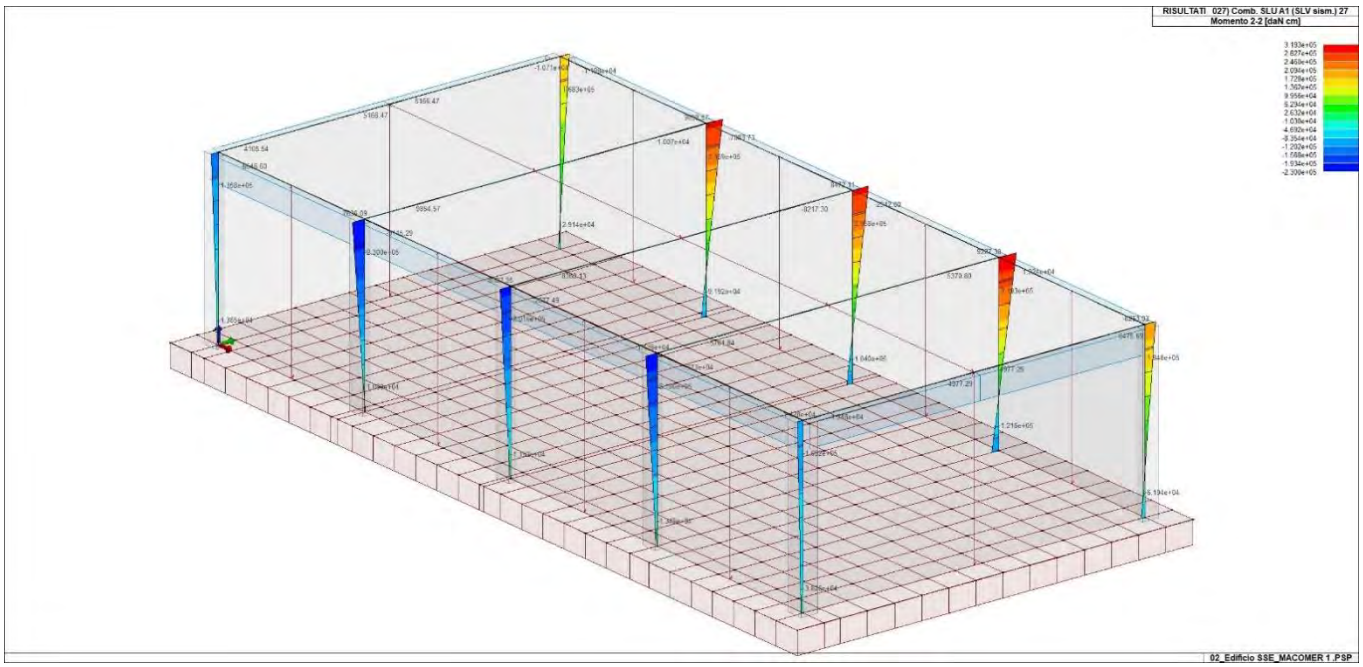
7.259e+04												
		-7.259e+04	-1.570e+04	0.02	0.0	345.0	72.67	-147.59	-64.09	3.655e+04	-1.570e+04	5.367e+04
	24 58	2.287e+04	2.208e+04	-3.28e-03	-1035.00	0.0	18.07	525.87	133.77	3.073e+04	-2.412e+04	-
2.322e+04												
		-2.322e+04	-2.412e+04	-0.01	0.0	345.0	18.07	-509.13	133.77	3.073e+04	2.208e+04	-
2.032e+04												
	24 59	2.773e+04	2.468e+04	8.84e-03	-1035.00	0.0	-88.32	619.69	-136.27	3.781e+04	2.468e+04	-
3.615e+04												
		-3.615e+04	-2.238e+04	0.03	0.0	345.0	-88.32	-415.31	-136.27	3.781e+04	-2.238e+04	-900.85
	24 69	2.497e+04	281.91	5.62e-03	-1035.00	0.0	-35.12	572.78	-1.25	3.427e+04	281.91	-
2.968e+04												
		-2.968e+04	-149.84	9.13e-03	0.0	345.0	-35.12	-462.22	-1.25	3.427e+04	-149.84	-
1.061e+04												
	24 70	2.522e+04	374.06	9.43e-03	-1035.00	0.0	-53.24	552.72	-1.67	4.577e+04	374.06	-
2.552e+04												
		-2.552e+04	-201.16	0.01	0.0	345.0	-53.24	-482.28	-1.67	4.577e+04	-201.16	-
1.338e+04												
	24 71	2.497e+04	281.91	5.62e-03	-1035.00	0.0	-35.12	572.78	-1.25	3.427e+04	281.91	-
2.968e+04												
		-2.968e+04	-149.84	9.13e-03	0.0	345.0	-35.12	-462.22	-1.25	3.427e+04	-149.84	-
1.061e+04												
	24 72	2.502e+04	300.34	6.38e-03	-1035.00	0.0	-38.75	568.77	-1.33	3.657e+04	300.34	-
2.885e+04												
		-2.885e+04	-160.10	9.74e-03	0.0	345.0	-38.75	-466.23	-1.33	3.657e+04	-160.10	-
1.116e+04												
	25 2	3.791e+05	-146.56	0.27	-3465.56	0.0	-886.55	0.15	0.16	16.11	-196.22	3.791e+05
		-1.667e+05	-196.22	-3.16e-04	0.0	315.0	-886.55	-3465.41	0.16	16.11	-146.56	-
1.667e+05												
	25 3	2.369e+05	-78.45	0.17	-2182.55	0.0	-539.65	0.10	0.10	10.13	-110.31	2.369e+05
		-1.068e+05	-110.31	-1.78e-04	0.0	315.0	-539.65	-2182.46	0.10	10.13	-78.45	-
1.068e+05												
	25 5	2.422e+05	1.704e+04	0.17	-2185.62	0.0	-527.26	-68.19	107.72	-2677.46	-1.701e+04	2.422e+05
		-1.244e+05	-1.701e+04	-0.02	0.0	315.0	-527.26	-2253.82	107.72	-2677.46	1.704e+04	-
1.244e+05												
	25 8	2.327e+05	1.679e+04	0.17	-2185.62	0.0	-553.15	68.38	-107.52	2697.70	1.679e+04	2.324e+05
		-8.942e+04	-1.720e+04	0.02	0.0	315.0	-553.15	-2117.24	-107.52	2697.70	-1.720e+04	-
8.942e+04												
	25 21	2.403e+05	1.330e+04	0.16	-2185.62	0.0	-613.53	-141.05	58.56	-659.53	-5171.20	2.403e+05
		-1.486e+05	-5171.20	-8.81e-03	0.0	315.0	-613.53	-2326.67	58.56	-659.53	1.330e+04	-
1.486e+05												
	25 26	2.381e+05	-5198.34	0.18	-2185.62	0.0	-442.02	138.53	-4.82	-498.13	-5198.34	2.369e+05
		-6.541e+04	-6633.25	2.91e-03	0.0	315.0	-442.02	-2047.10	-4.82	-498.13	-6633.25	-
6.541e+04												
	25 27	2.377e+05	6475.69	0.16	-2185.62	0.0	-638.39	-138.34	5.02	518.38	4977.29	2.377e+05
		-1.484e+05	4977.29	-3.04e-03	0.0	315.0	-638.39	-2323.96	5.02	518.38	6475.69	-
1.484e+05												
	25 37	2.441e+05	2.688e+04	0.17	-2185.62	0.0	-519.74	-105.96	169.10	-4233.10	-2.656e+04	2.441e+05
		-1.345e+05	-2.656e+04	-0.03	0.0	315.0	-519.74	-2291.59	169.10	-4233.10	2.688e+04	-
1.345e+05												
	25 40	2.313e+05	2.634e+04	0.17	-2185.62	0.0	-560.67	106.15	-168.89	4253.34	2.634e+04	2.305e+05
		-7.927e+04	-2.704e+04	0.03	0.0	315.0	-560.67	-2079.47	-168.89	4253.34	-2.704e+04	-
7.927e+04												
	25 53	2.417e+05	2.098e+04	0.16	-2185.62	0.0	-655.13	-223.16	92.00	-1052.59	-8036.88	2.417e+05
		-1.731e+05	-8036.88	-0.01	0.0	315.0	-655.13	-2408.79	92.00	-1052.59	2.098e+04	-
1.731e+05												
	25 58	2.396e+05	-8074.18	0.18	-2185.62	0.0	-385.99	218.06	-7.97	-769.72	-8074.18	2.364e+05
		-4.115e+04	-1.046e+04	4.63e-03	0.0	315.0	-385.99	-1967.56	-7.97	-769.72	-1.046e+04	-
4.115e+04												
	25 59	2.382e+05	1.030e+04	0.15	-2185.62	0.0	-694.42	-217.87	8.17	789.97	7853.14	2.382e+05
		-1.727e+05	7853.14	-4.77e-03	0.0	315.0	-694.42	-2403.50	8.17	789.97	1.030e+04	-
1.727e+05												
	25 69	2.373e+05	-78.78	0.17	-2185.62	0.0	-540.20	0.10	0.10	10.12	-110.52	2.373e+05
		-1.069e+05	-110.52	-1.78e-04	0.0	315.0	-540.20	-2185.53	0.10	10.12	-78.78	-
1.069e+05												
	25 70	2.841e+05	-107.99	0.20	-2599.74	0.0	-662.69	0.12	0.12	12.09	-145.41	2.841e+05
		-1.253e+05	-145.41	-2.34e-04	0.0	315.0	-662.69	-2599.63	0.12	12.09	-107.99	-
1.253e+05												
	25 71	2.373e+05	-78.78	0.17	-2185.62	0.0	-540.20	0.10	0.10	10.12	-110.52	2.373e+05
		-1.069e+05	-110.52	-1.78e-04	0.0	315.0	-540.20	-2185.53	0.10	10.12	-78.78	-
1.069e+05												
	25 72	2.467e+05	-84.62	0.18	-2268.45	0.0	-564.70	0.10	0.10	10.52	-117.50	2.467e+05
		-1.106e+05	-117.50	-1.90e-04	0.0	315.0	-564.70	-2268.35	0.10	10.52	-84.62	-
1.106e+05												

Trave	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T
	-4.814e+05	-2.704e+04	-0.50	-1.547e+04	-1809.64	-7736.33	-169.18	-6.199e+04

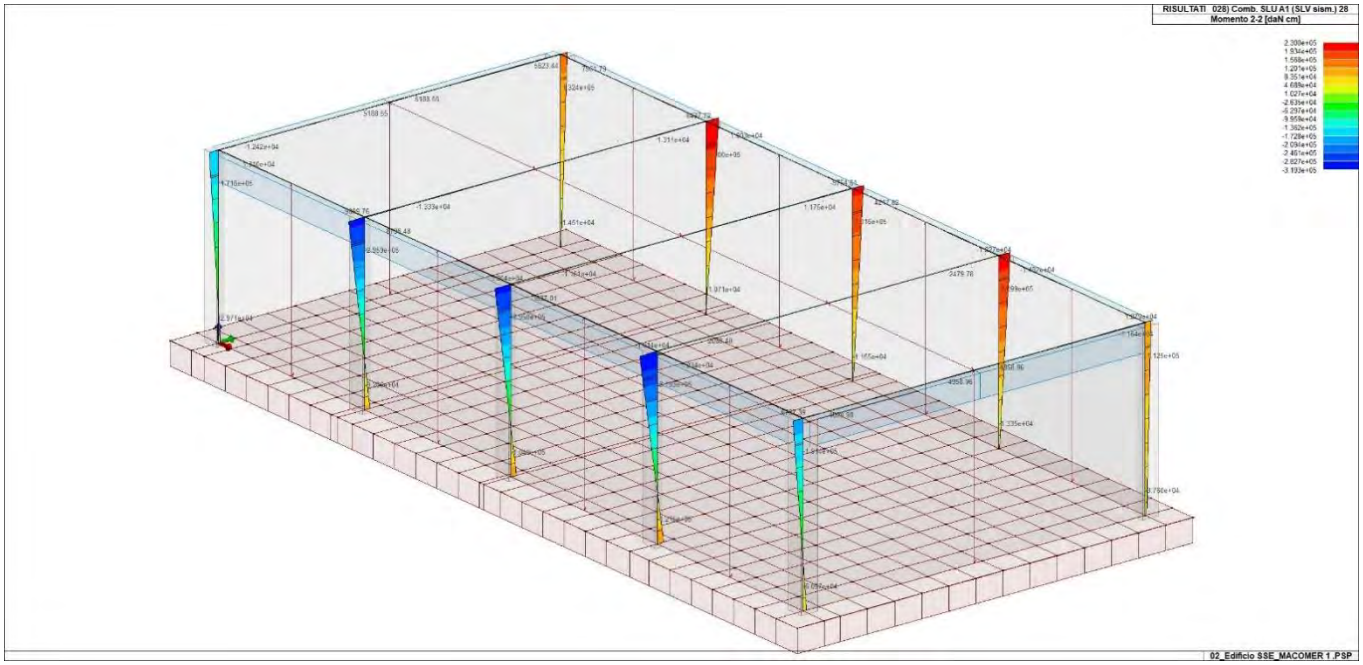
7.374e+05	2.706e+04	0.27	0.0	101.72	7736.46	169.10	6.200e+04



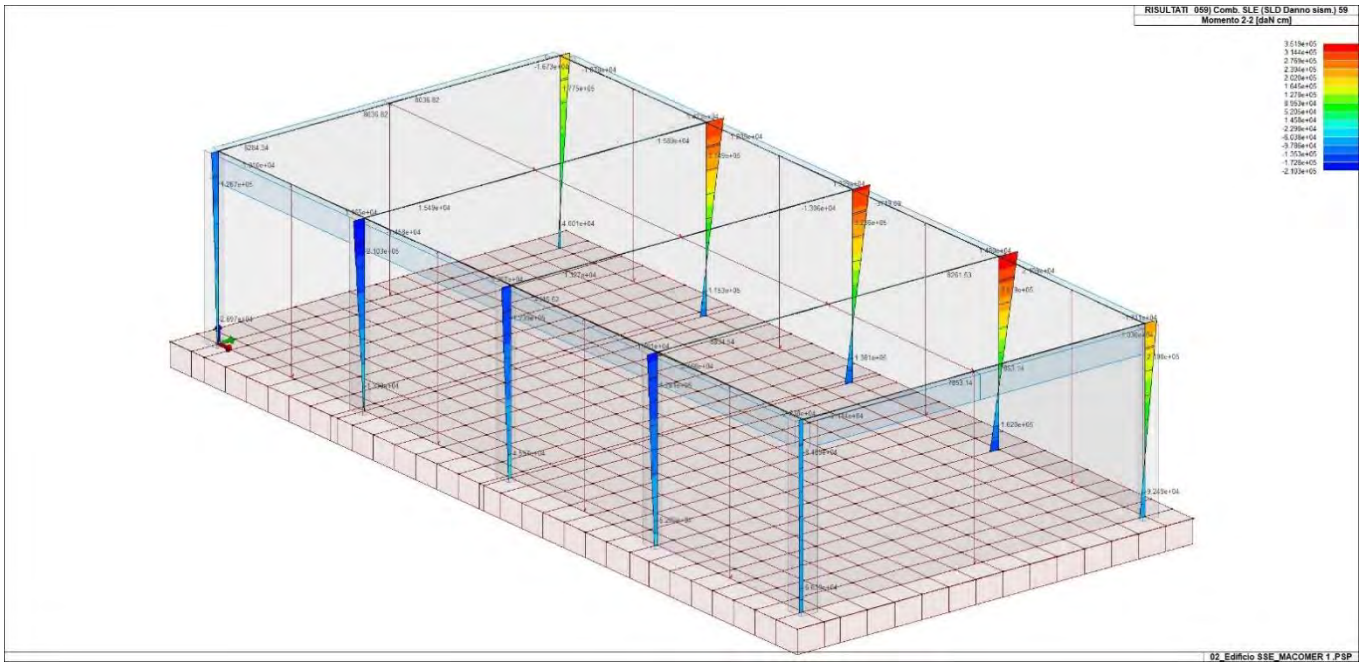
43_RIS_M2_002_Comb. SLU A1 2



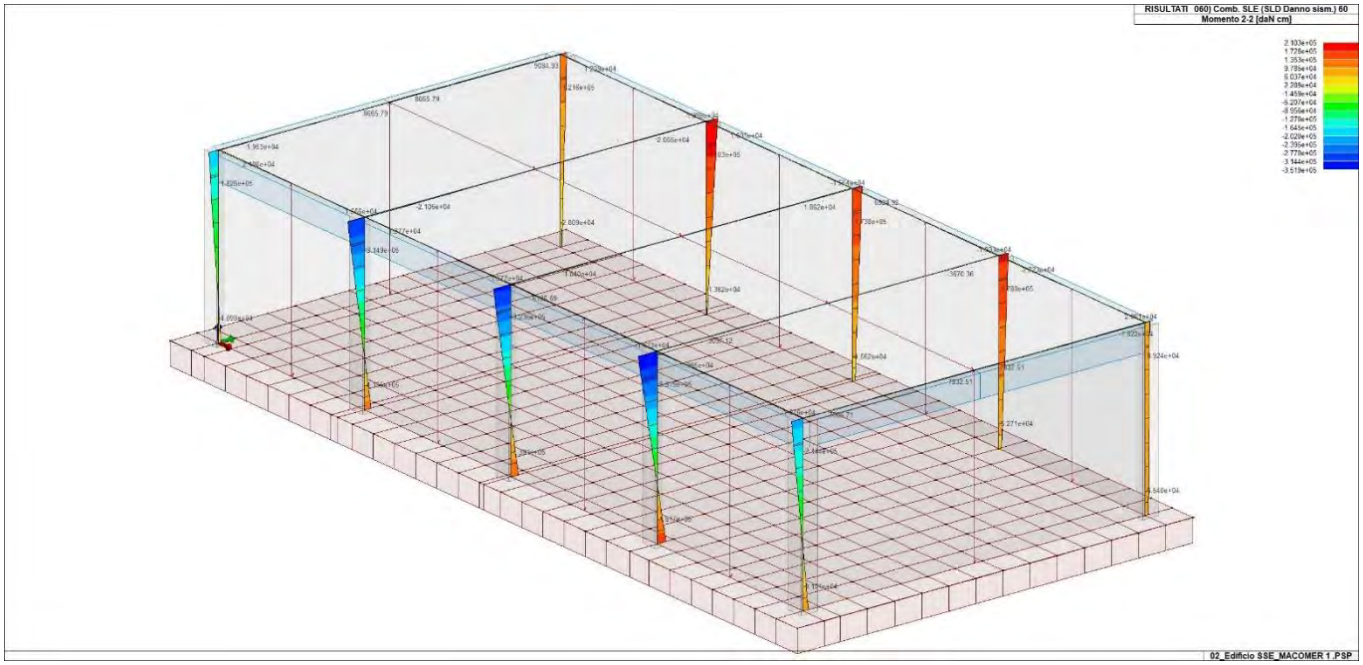
43_RIS_M2_027_Comb. SLU A1 (SLV sism.) 27



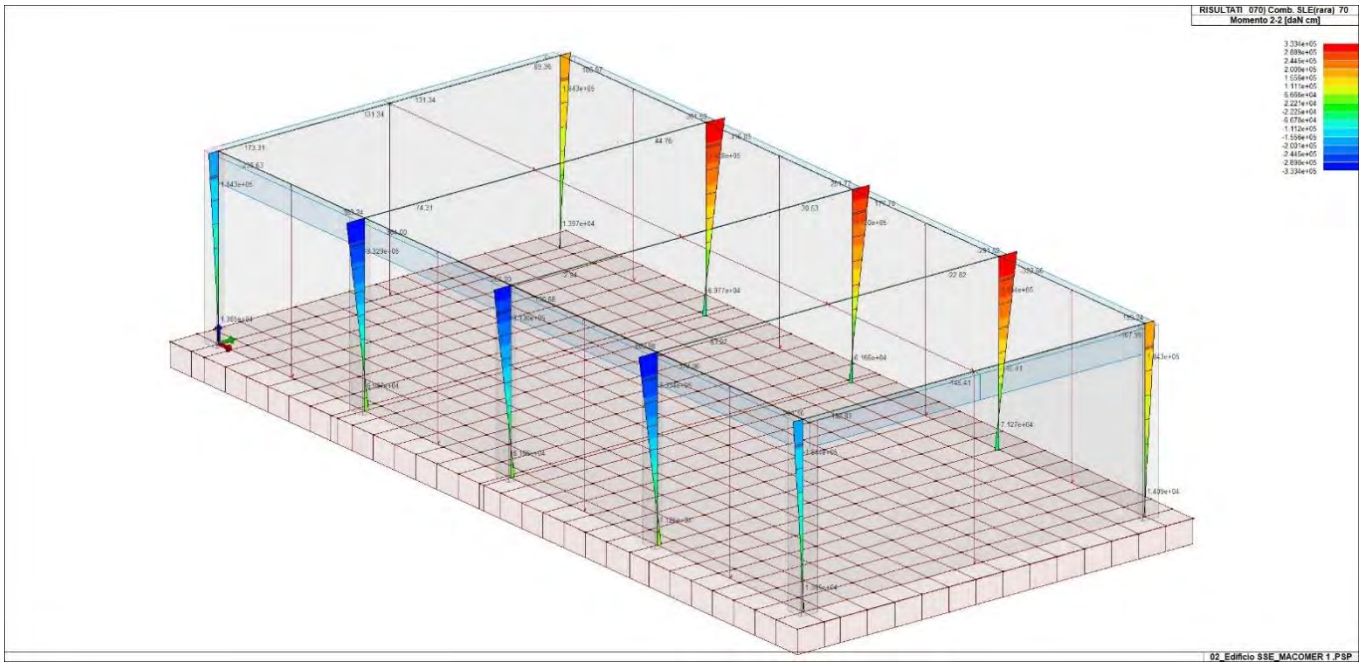
43_RIS_M2_028_Comb. SLU A1 (SLV sism.) 28



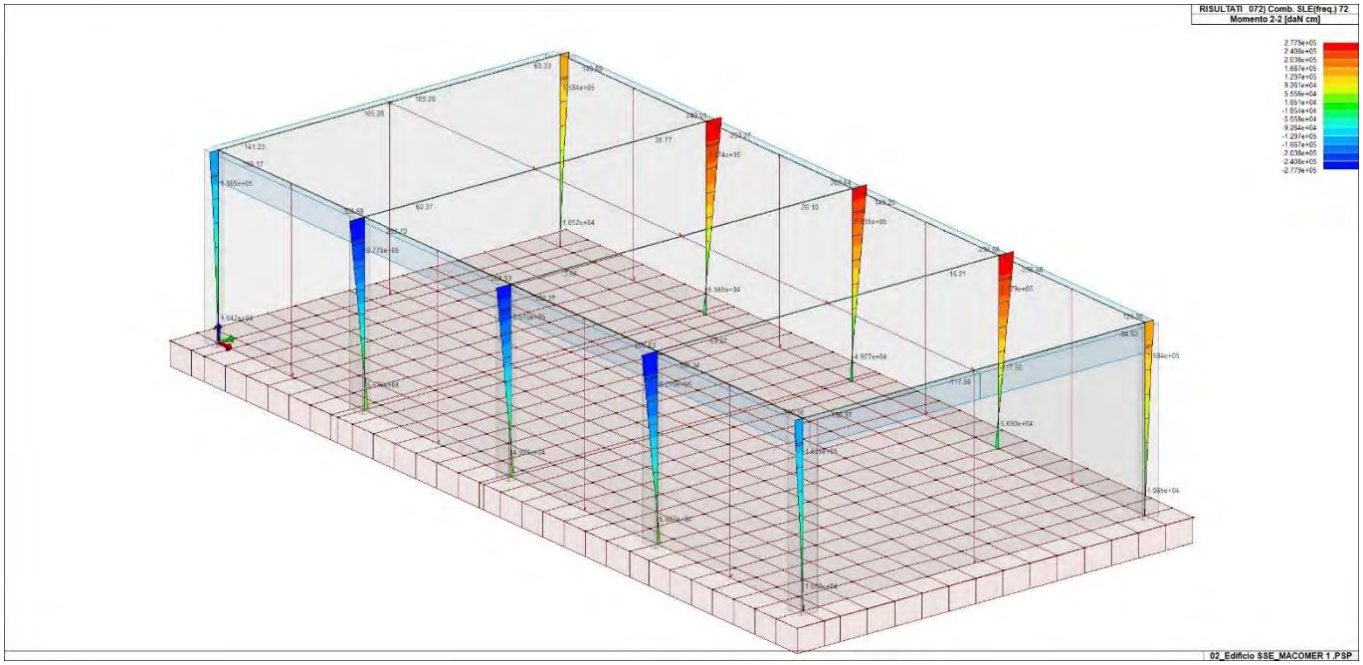
43_RIS_M2_059_Comb. SLE (SLD Danno sism.) 59



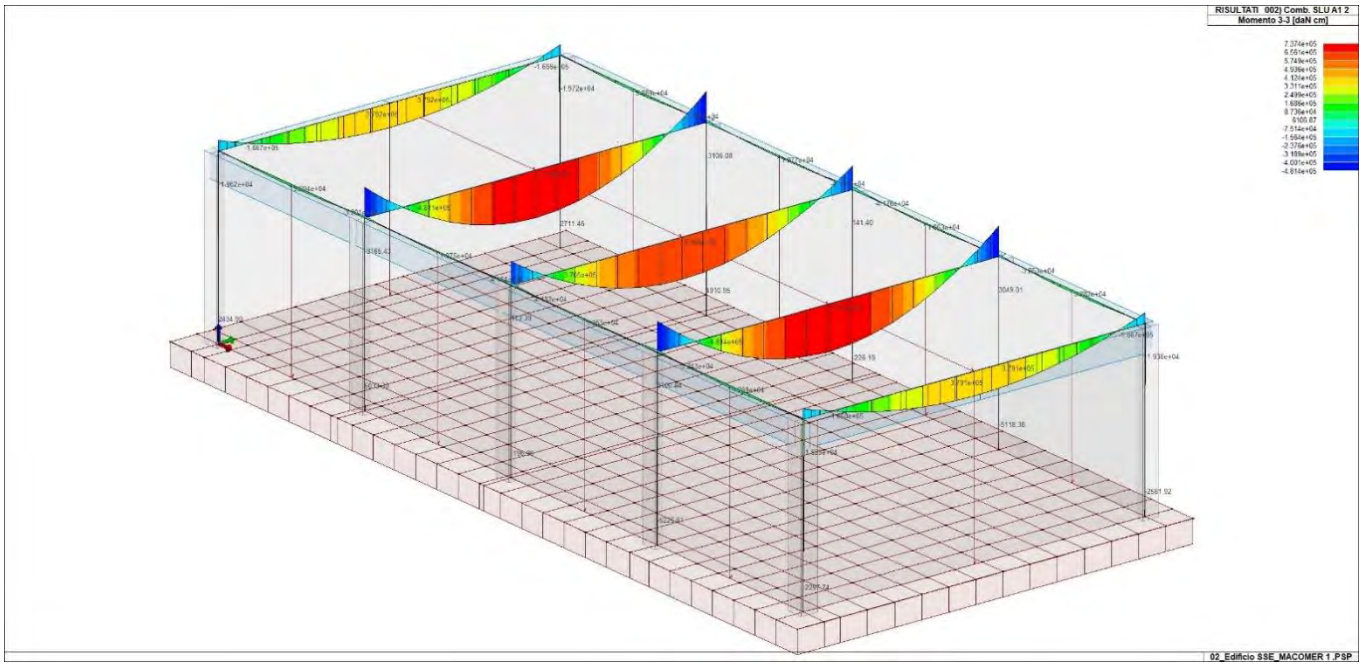
43_RIS_M2_060_Comb. SLE (SLD Danno sism.) 60



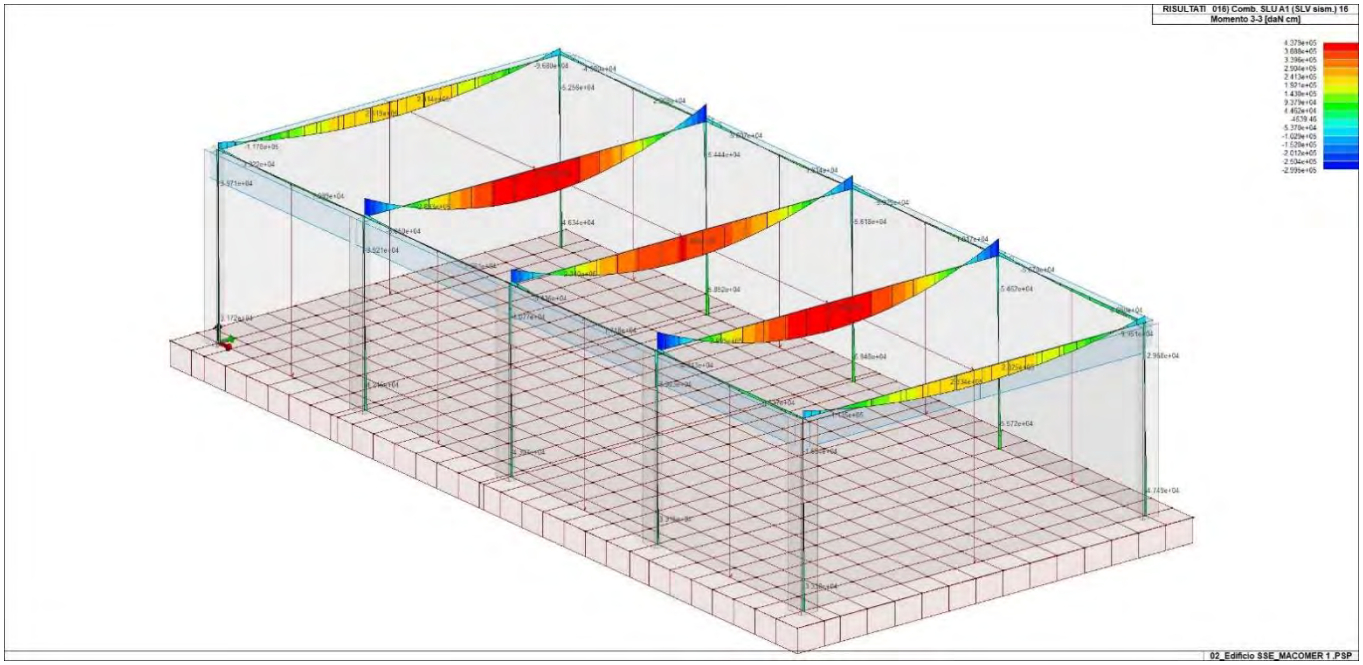
43_RIS_M2_070_Comb. SLE(rara) 70



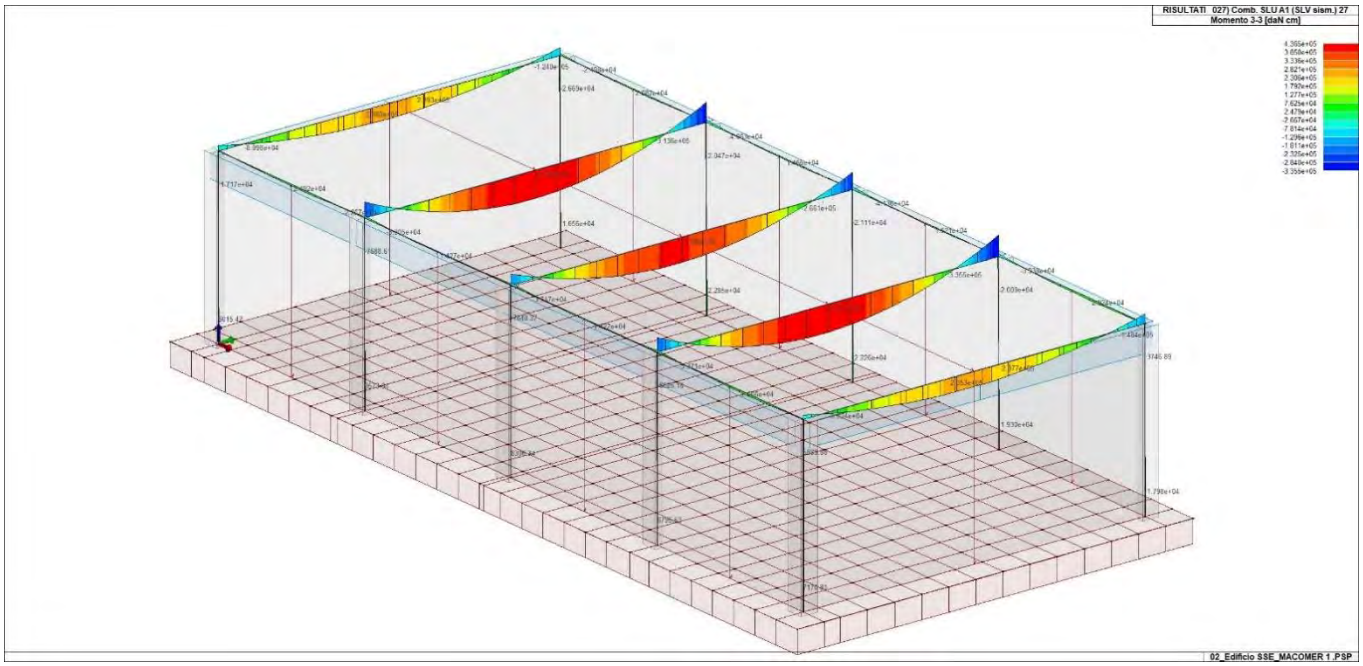
43_RIS_M2_072_Comb. SLE(freq.) 72



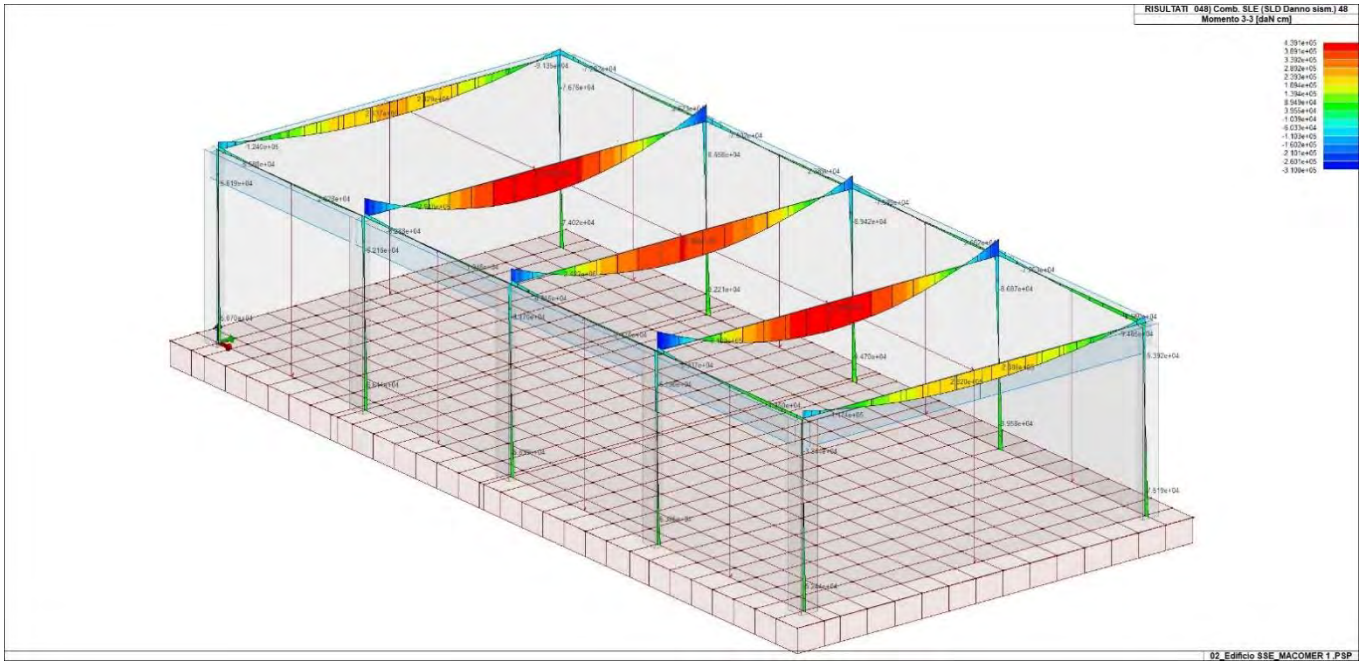
43_RIS_M3_002_Comb. SLU A1 2



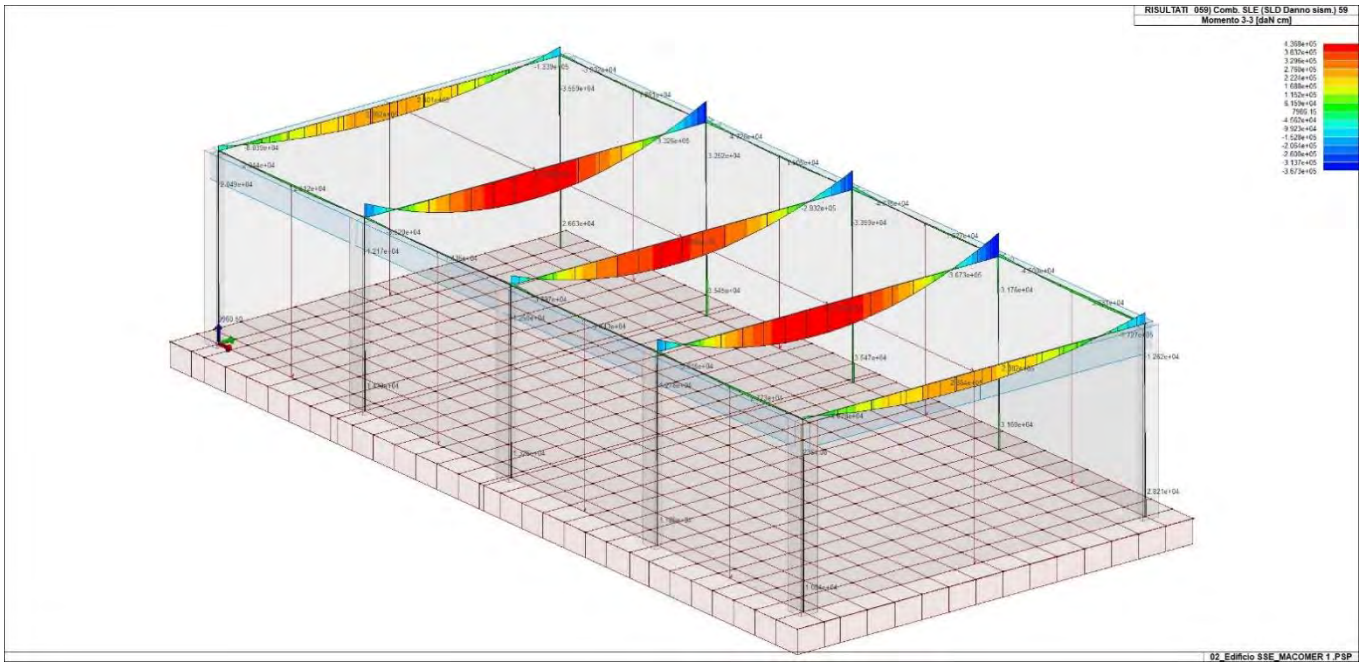
43_RIS_M3_016_Comb. SLU A1 (SLV sism.) 16



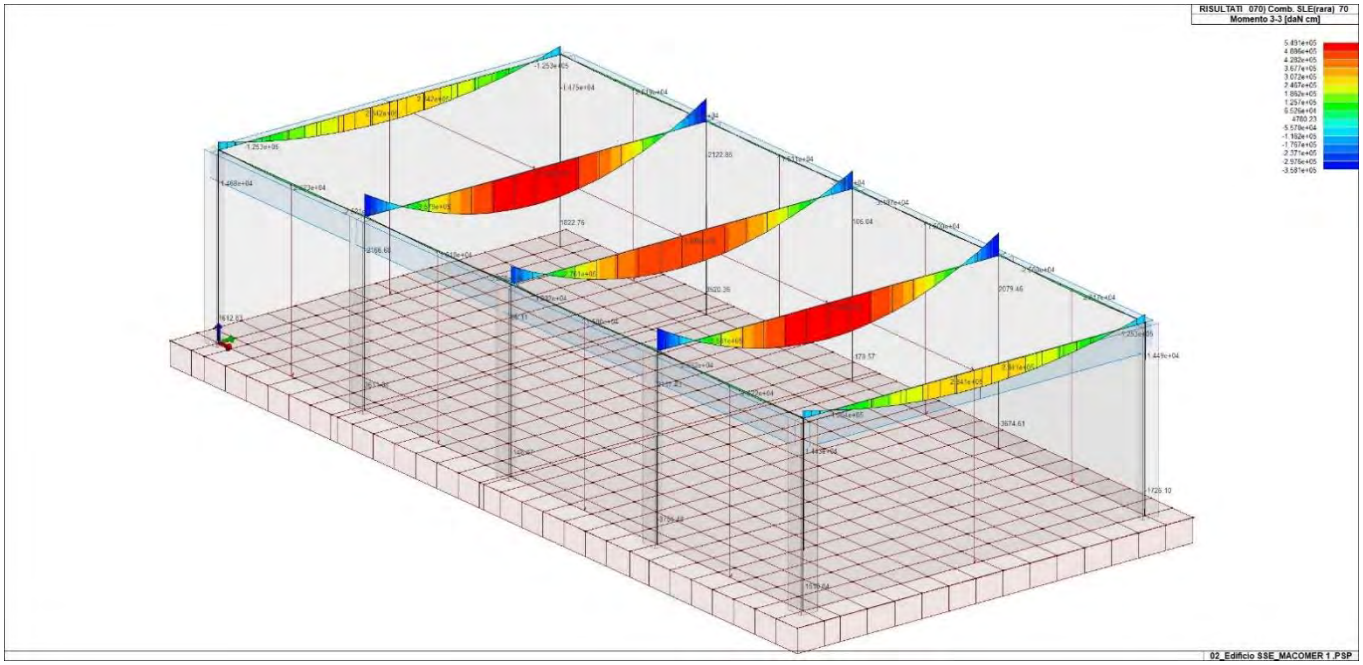
43_RIS_M3_027_Comb. SLU A1 (SLV sism.) 27



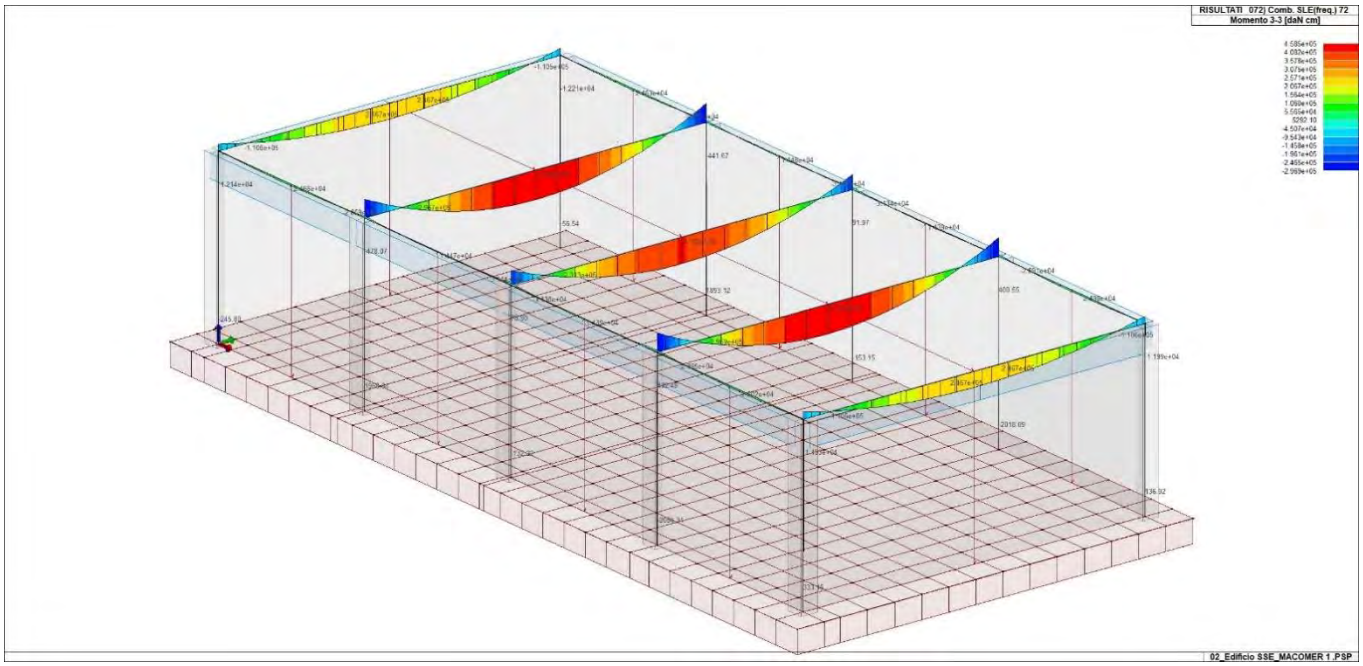
43_RIS_M3_048_Comb. SLE (SLD Danno sism.) 48



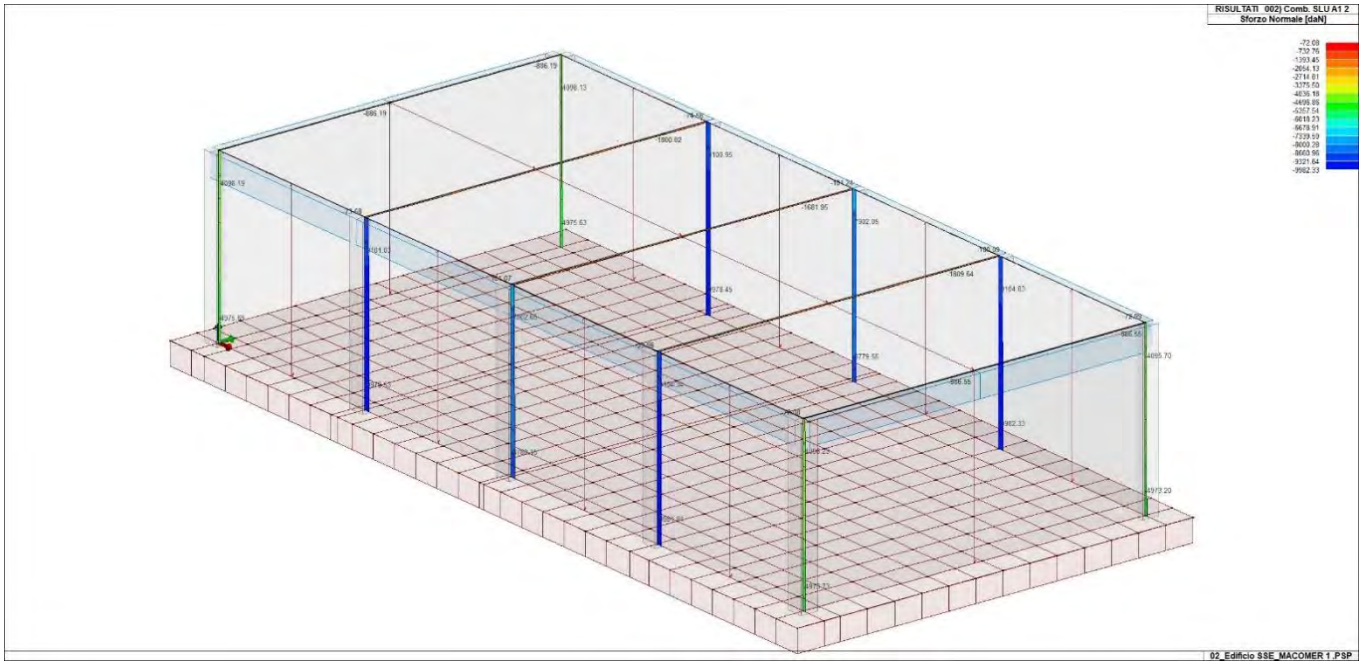
43_RIS_M3_059_Comb. SLE (SLD Danno sism.) 59



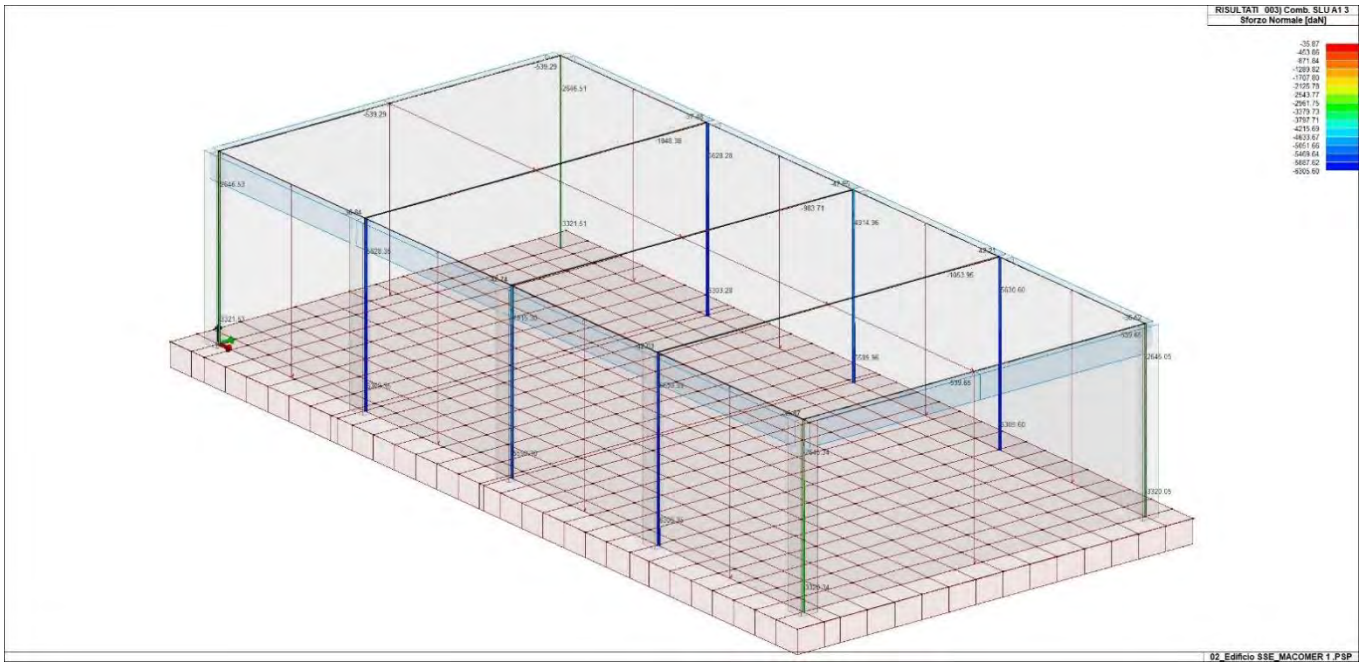
43_RIS_M3_070_Comb. SLE(rara) 70



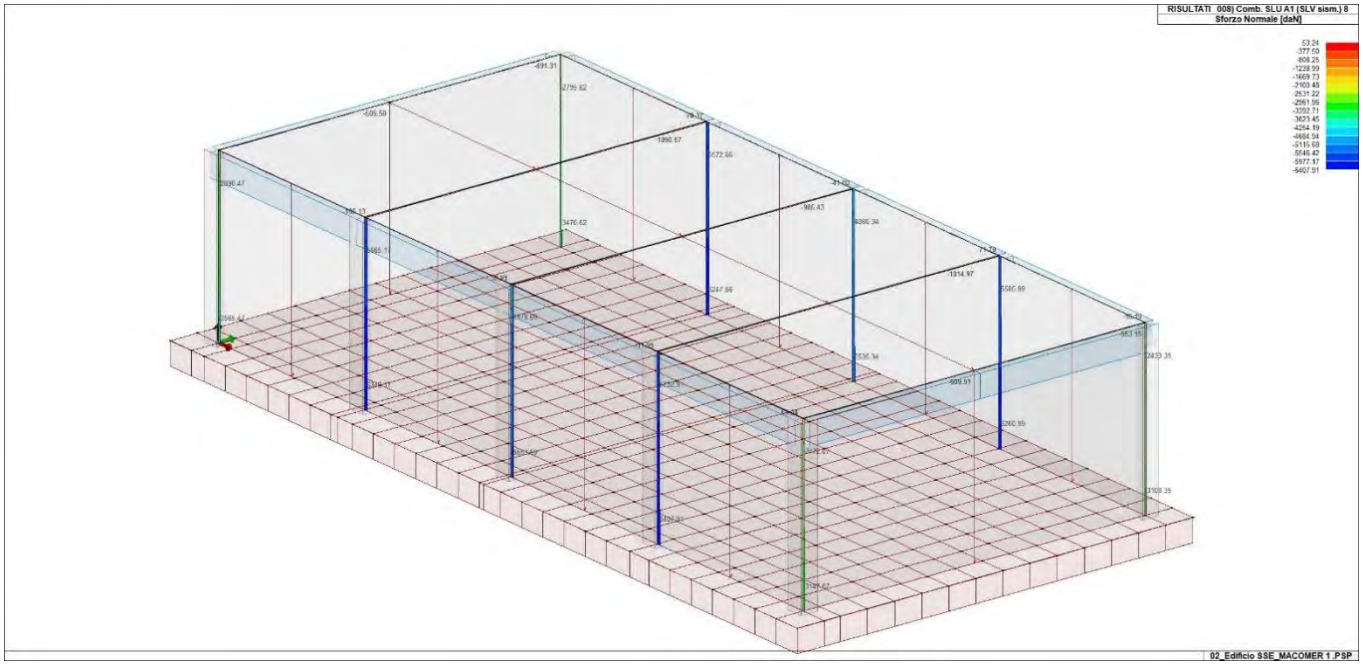
43_RIS_M3_072_Comb. SLE(freq.) 72



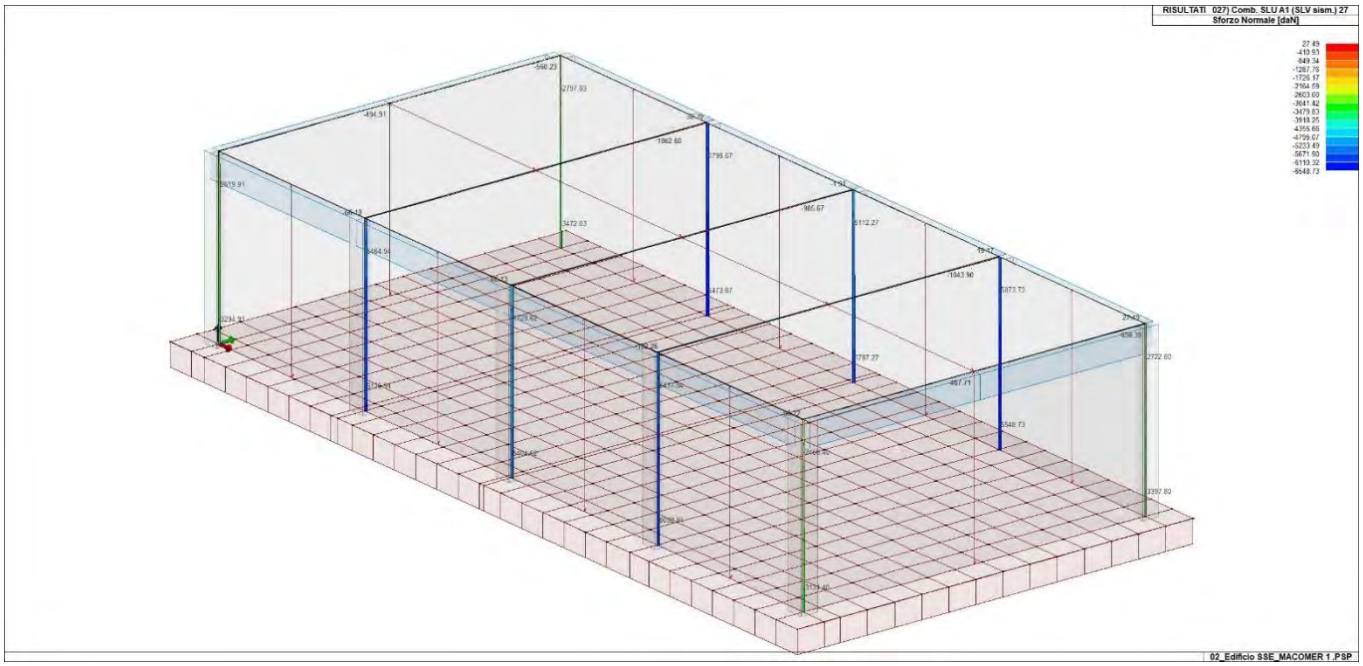
43_RIS_N_002_Comb. SLU A1 2



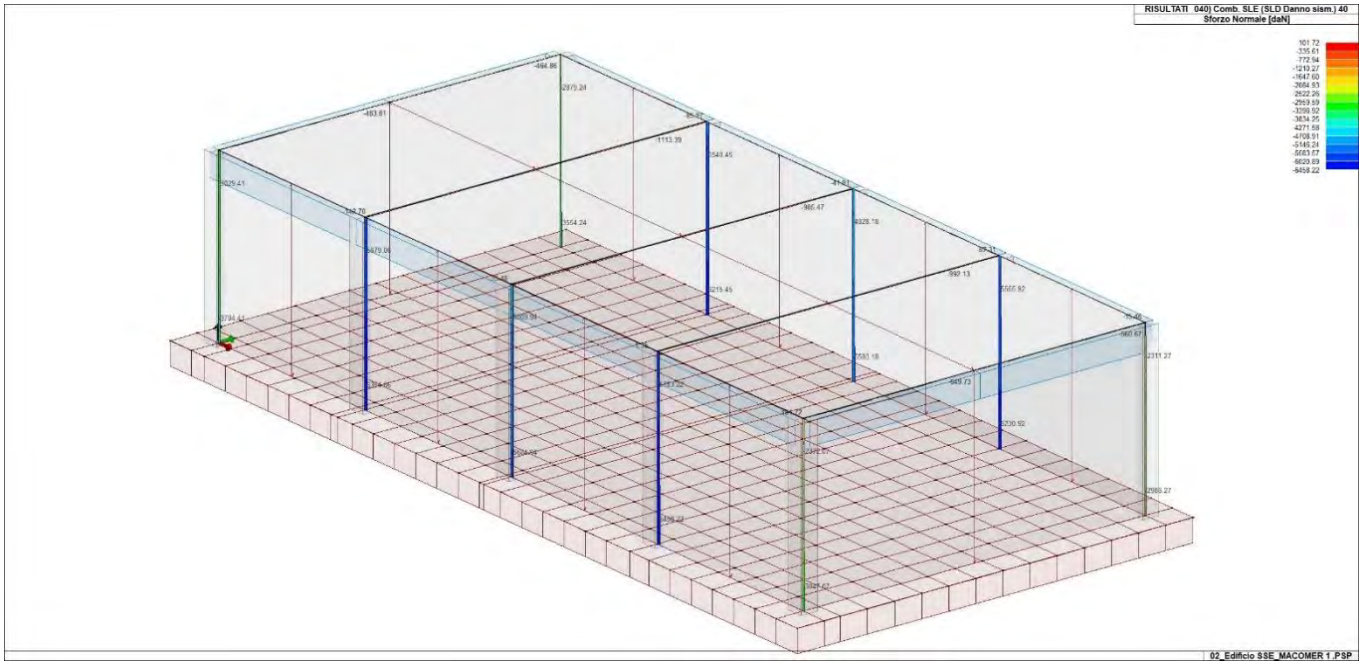
43_RIS_N_003_Comb. SLU A1 3



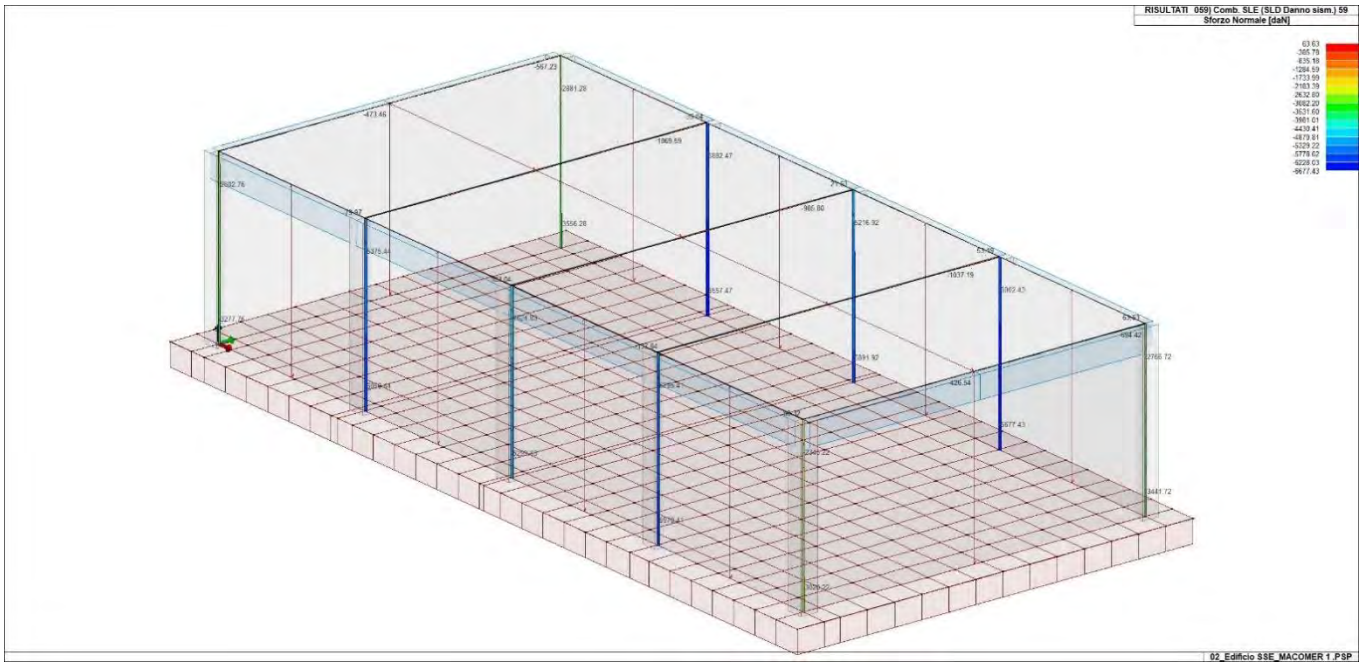
43_RIS_N_008_Comb. SLU A1 (SLV sism.) 8



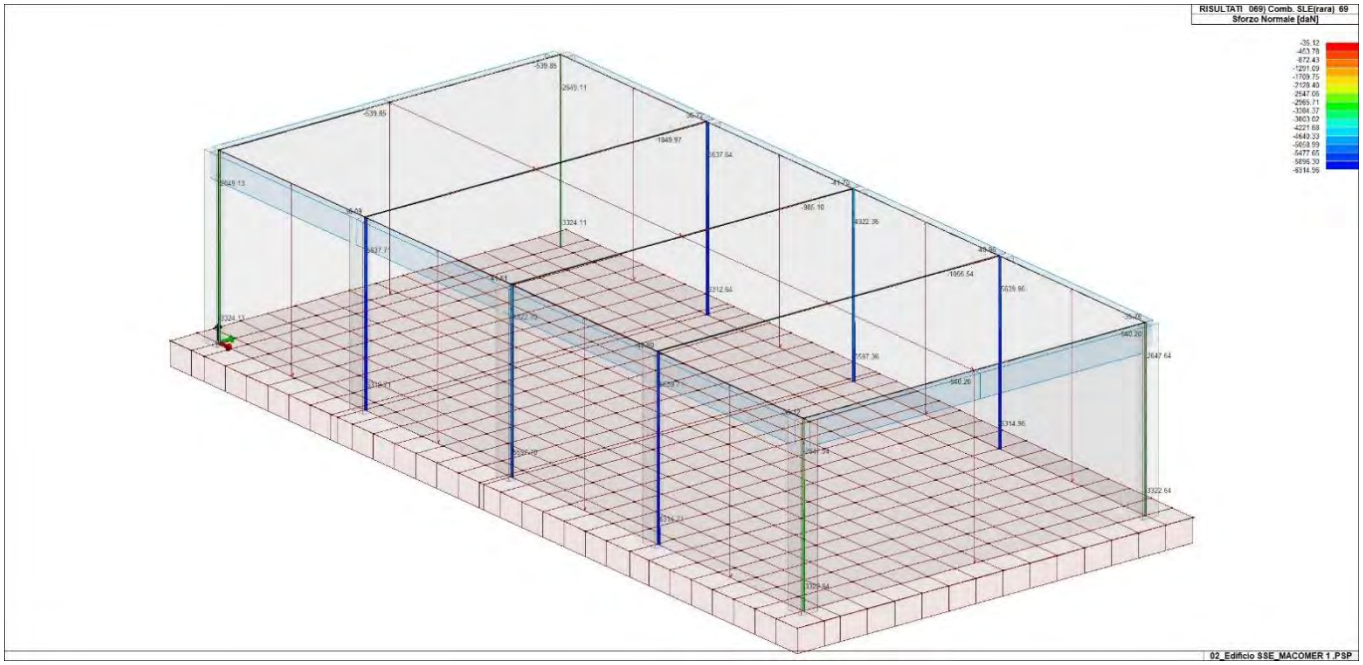
43_RIS_N_027_Comb. SLU A1 (SLV sism.) 27



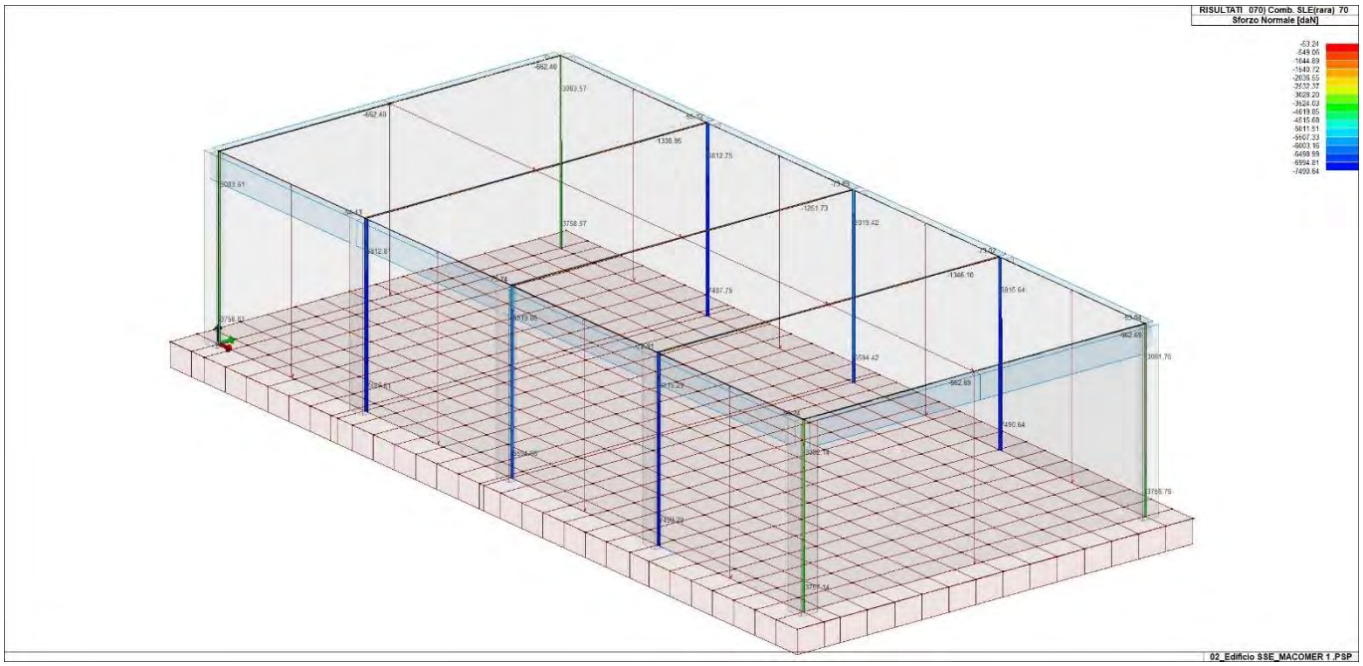
43_RIS_N_040_Comb. SLE (SLD Danno sism.) 40



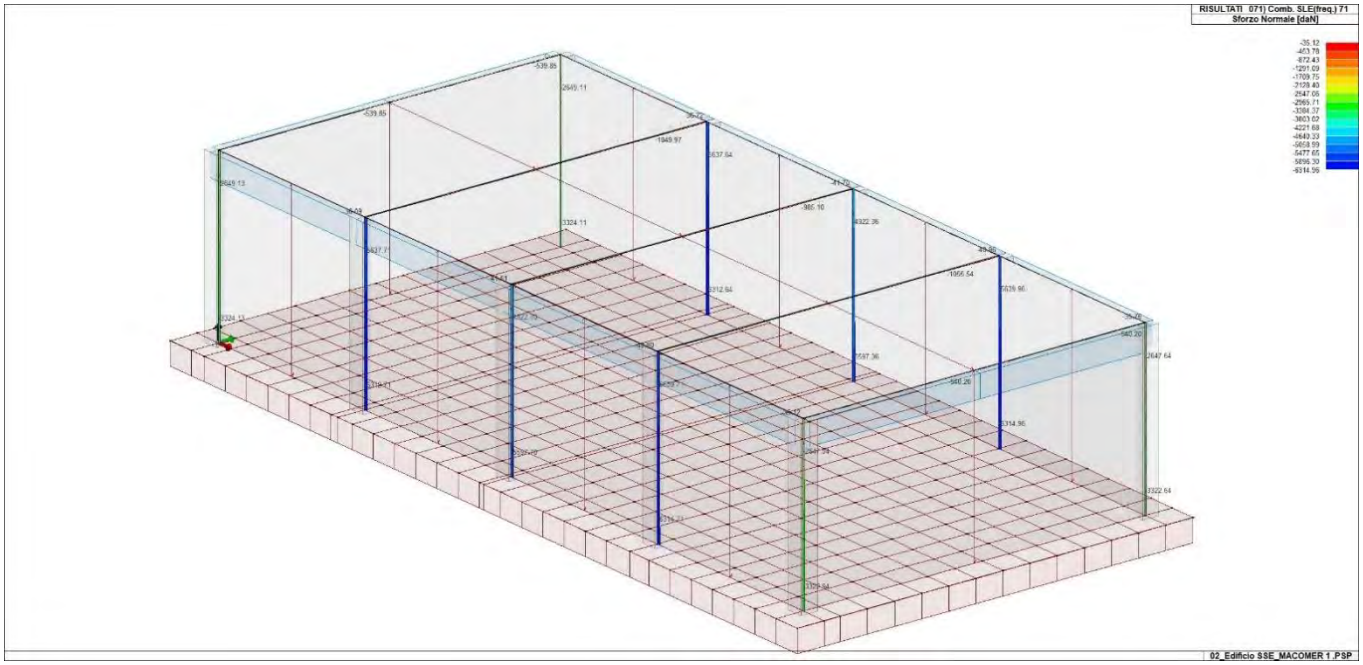
43_RIS_N_059_Comb. SLE (SLD Danno sism.) 59



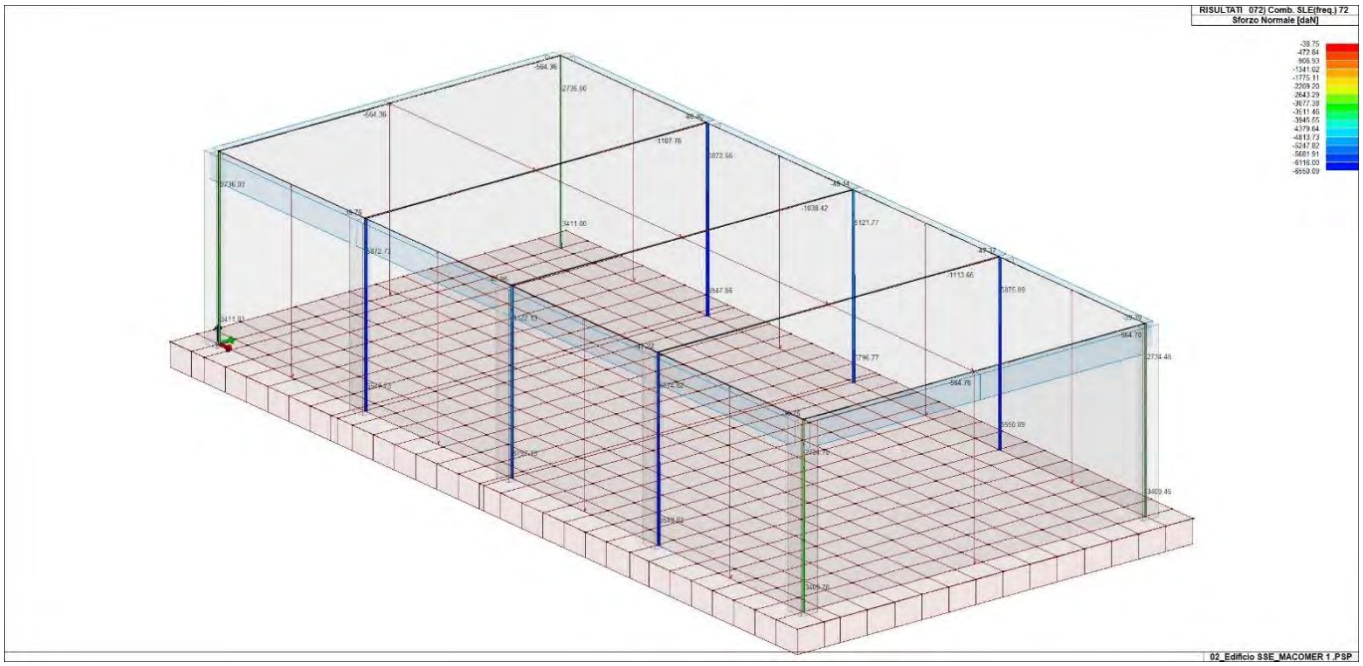
43_RIS_N_069_Comb. SLE(rara) 69



43_RIS_N_070_Comb. SLE(rara) 70



43_RIS_N_071_Comb. SLE(freq.) 71



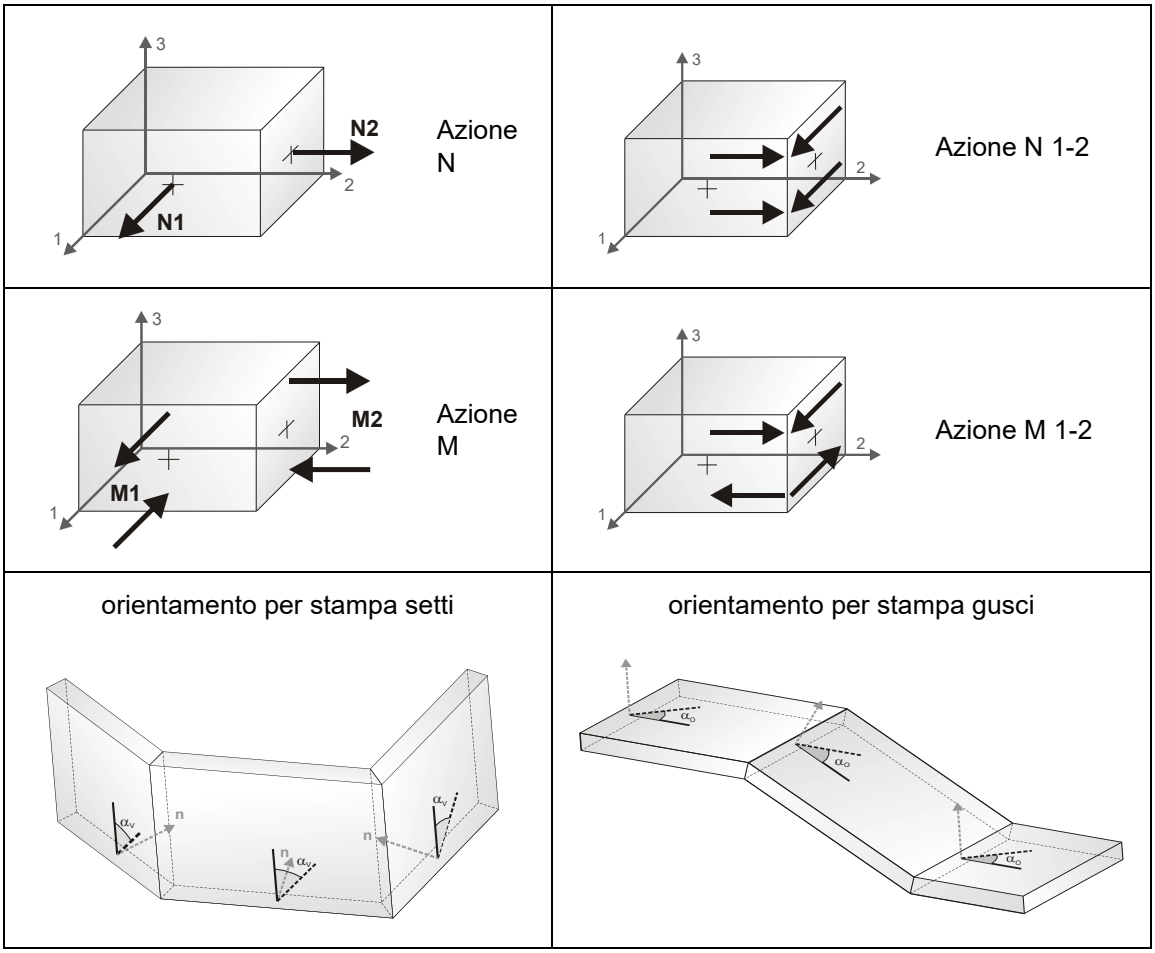
43_RIS_N_072_Comb. SLE(freq.) 72

39. RISULTATI ELEMENTI TIPO SHELL

39.1. LEGENDA RISULTATI ELEMENTI TIPO SHELL

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo shell, è possibile in relazione alle tabelle sottoriportate.

Per ogni elemento, e per ogni combinazione(o caso di carico) vengono riportati i risultati più significativi.



In particolare vengono riportati in ogni nodo di un elemento per ogni combinazione:

tensione di Von Mises		(valore riassuntivo del complessivo stato di sollecitazione)
N max		sforzo membranale principale massimo
N min		sforzo membranale principale minimo
M max		sforzo flessionale principale massimo
M min		sforzo flessionale principale minimo
N1 **N1-2** **M2**	**N2** **M1** **M1-2**	sforzi membranali e flessionali in direzione locale 1 e 2 dell'elemento (lo sforzo 2-1 è uguale allo sforzo 1-2 per la reciprocità delle tensioni tangenziali)

I suddetti risultati possono a scelta del progettista essere preceduti o sostituiti da valori di sollecitazione non più riferiti al sistema locale dell'elemento ma al sistema globale.

In questo caso gli elementi vengono raggruppati in gruppi (M_S: macro gusci o macro setti, raggruppati per materiale, spessore, e posizione fisica) per la valutazione dei valori mediati ai nodi appartenenti agli elementi dei gruppi stessi.

I valori di sollecitazione sono, in questo caso, riferiti ad una terna specifica del gruppo ruotata di α_O attorno all'asse Z per i gusci e ruotata di α_V attorno alla normale (che per definizione è orizzontale) al piano del setto.

Per i setti, in particolare, se α_V è zero, l'asse '1-1 rappresenta la verticale e l'asse '2-2 l'orizzontale contenuta nel setto.

Le azioni sui setti possono essere espresse anche con formato macro, cioè riferite all'intero macroelemento.

In particolare vengono riportati per ogni quota Z dei nodi e per ogni combinazione i seguenti valori:

N memb.	Azione membranale complessiva agente sulla parete in direzione Z
V memb.	Azione complessiva di taglio agente nel piano del macroelemento
V orto	Azione complessiva di taglio agente in direzione perpendicolare al macroelemento
M memb.	Azione flessionale complessiva agente nel piano del macroelemento
M orto	Azione flessionale complessiva agente in direzione perpendicolare al macroelemento
T	Azione torsionale complessiva agente nel piano orizzontale

Macro	Tipo	Angolo 1-X (gradi)
1	**Guscio**	**0.0**

M_G	Cmb	Nodo	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	2	1	1.16	-1.27	-0.72	0.61	-1.02	-594.75	-1310.75	-1035.05	-870.44	348.41
1	2	3	1.76	-1.84	-1.74	1.66	0.61	-560.19	-1247.78	-1004.03	-803.94	-328.91
1	2	6	3.69	-15.11	-3.50	-7.92	9.14	-1876.71	-3599.99	-3584.05	-1892.65	-164.96
1	2	9	9.48	-11.29	-3.45	1.64	-10.07	-1761.88	-3521.38	-3514.82	-1768.44	107.24
1	2	11	8.93	-19.63	-4.68	-6.02	14.27	-1550.67	-2921.36	-2916.88	-1555.14	-78.19
1	2	13	13.87	-15.24	-3.50	2.13	-14.27	-1471.11	-2842.49	-2842.47	-1471.13	5.10
1	2	15	3.99	-3.96	3.74	-3.71	-1.40	-1808.96	-3027.81	-3016.81	-1819.97	115.31
1	2	17	6.12	-3.95	5.96	-3.79	1.24	-1721.52	-2977.72	-2967.30	-1731.94	-113.94
1	2	19	0.98	-0.33	0.41	0.23	0.65	-577.34	-1201.35	-944.04	-834.64	-307.17
1	2	21	0.33	-0.68	-0.59	0.24	0.29	-549.51	-1158.50	-920.33	-787.68	297.19
1	2	22	6.83	-3.35	6.15	-2.66	2.55	662.12	-400.29	-295.88	557.71	-316.27
1	2	23	3.25	-0.85	-0.64	3.04	0.90	909.98	48.04	394.20	563.82	-422.54
1	2	24	4.34	-3.82	1.97	-1.46	3.70	665.40	20.25	545.74	139.90	-250.75
1	2	25	1.45	0.16	0.70	0.91	-0.63	943.09	587.61	829.37	701.33	-165.81
1	2	26	0.93	-3.21	-3.16	0.87	-0.46	940.02	285.00	903.82	321.20	-149.67
1	2	27	0.69	-0.69	-0.63	0.63	-0.27	957.93	717.43	937.09	738.27	67.67
1	2	28	4.44e-02	-2.16	-2.16	4.42e-02	-2.35e-02	1065.36	360.45	1056.19	369.63	79.89
1	2	29	1.57	-1.24	-1.24	1.57	9.69e-02	1058.41	445.85	778.14	726.11	305.17

1	2	30	0.75	-2.91	-2.41	0.25	1.25	1029.93	182.40	874.44	337.89	328.04
1	2	31	3.61	0.20	0.54	3.27	-1.03	981.12	29.60	350.35	660.37	449.80
1	2	32	-0.15	-8.45	-8.00	-0.60	1.89	673.31	-244.10	255.83	173.38	456.85
1	2	33	6.71	-4.21	-2.71	5.21	-3.76	783.54	-837.10	-493.34	439.78	662.53
1	2	34	13.08	-11.91	13.06	-11.89	0.68	-19.45	-665.73	-437.57	-247.60	308.86
1	2	35	19.87	-19.85	19.79	-19.77	-1.80	799.17	-1524.72	-1523.85	798.30	44.84
1	2	36	15.10	-14.30	-1.28	2.08	-14.60	-986.80	-1753.63	-1717.74	-1022.68	161.96
1	2	37	4.02	-4.07	-1.03	0.98	3.92	350.31	-245.18	18.19	86.94	295.75
1	2	38	5.25	-3.93	-3.29	4.61	2.35	707.38	-545.89	-289.43	450.91	-505.61
1	2	39	11.08	-11.96	10.54	-11.42	-3.49	76.58	-354.06	-187.73	-89.75	-209.67
1	2	40	2.84	-0.47	-9.98e-02	2.47	1.04	846.39	258.08	412.27	692.20	-258.72
1	2	41	0.30	-8.19	-7.58	-0.31	-2.20	561.06	20.37	366.38	215.05	-259.54
1	2	42	1.47	-1.43	-1.41	1.45	-0.25	838.20	637.56	725.92	749.84	-99.60
1	2	43	0.76	-3.23	-2.80	0.33	-1.23	842.68	328.75	821.11	350.32	-103.06
1	2	44	1.12	-0.95	-0.95	1.12	-1.25e-02	867.12	617.46	728.15	756.43	124.03
1	2	45	9.82e-02	-2.75	-2.71	6.09e-02	0.32	855.73	318.33	821.24	352.82	131.71
1	2	46	1.88	1.69	1.73	1.83	-8.17e-02	888.80	245.54	422.26	712.09	287.14
1	2	47	-1.53	-6.21	-6.20	-1.55	0.27	575.68	3.87	360.23	219.33	277.09
1	2	48	3.37	1.30	2.10	2.57	-1.00	815.08	-515.42	-289.13	588.78	499.87
1	2	49	12.49	-7.13	12.49	-7.13	0.10	-109.54	-357.38	-252.25	-214.66	122.48
1	2	50	36.73	1.95	36.73	1.95	2.17e-02	1012.60	-624.67	-607.15	995.07	168.48
1	2	51	4.24	-2.08	4.13	-1.97	-0.83	934.60	-996.00	-906.43	845.03	-406.08
1	2	52	17.56	-12.77	0.17	4.62	15.00	-1088.31	-1721.29	-1703.51	-1106.08	-104.57
1	2	53	7.43	-1.54	-1.12	7.01	-1.89	799.49	-168.25	71.51	559.73	-417.78
1	2	54	4.22	-7.24	-4.35	1.33	-4.98	329.01	-246.86	-8.39	90.54	-283.65
1	2	55	2.88	-1.77	-1.19	2.30	-1.53	903.73	394.75	586.21	712.27	-246.56
1	2	56	1.82	-2.86	-1.63	0.59	-2.06	781.88	187.58	657.48	311.98	-241.78
1	2	57	0.99	-0.99	-0.79	0.78	-0.61	794.43	736.43	780.53	750.32	-24.75
1	2	58	0.30	-2.06	-1.93	0.18	-0.52	885.81	367.98	884.85	368.93	-22.19
1	2	59	1.23	-0.72	-0.72	1.23	-3.15e-02	893.62	484.08	642.07	735.64	199.35
1	2	60	0.27	-2.37	-2.15	5.20e-02	0.73	818.78	241.91	726.02	334.67	211.91
1	2	61	2.83	1.73	1.93	2.63	-0.42	834.38	19.02	195.71	657.70	335.92
1	2	62	-2.05	-6.65	-6.43	-2.26	0.96	440.20	-208.33	80.57	151.30	322.33
1	2	63	5.11	-0.67	3.37	1.07	-2.65	723.99	-891.05	-691.55	524.50	531.41
1	2	64	15.47	-7.52	15.27	-7.32	2.14	-433.62	-729.45	-706.94	-456.12	78.43
1	2	65	42.97	-4.46	42.87	-4.36	2.15	969.39	-1012.95	-1009.89	966.34	77.73
1	2	66	6.11	-2.84	5.15	-1.88	2.77	874.81	-1351.15	-1176.40	700.06	-598.71
1	2	67	14.75	-4.69	8.17	1.88	9.20	-1084.85	-1818.42	-1789.99	-1113.28	-141.59
1	2	68	6.93	-1.96e-02	0.27	6.64	-1.39	877.15	-413.00	-71.34	535.50	-569.26
1	2	69	1.50	-7.38	-5.28	-0.60	-3.77	406.33	-581.41	-221.49	46.41	-475.36
1	2	70	2.46	-1.28	-0.94	2.13	-1.07	1058.18	180.95	553.55	685.58	-433.62
1	2	71	1.45	-2.63	-1.55	0.37	-1.80	937.55	-22.98	620.28	294.30	-451.76
1	2	72	0.58	-0.66	-0.54	0.47	-0.36	1034.28	582.46	887.17	729.56	-211.72
1	2	73	0.15	-1.84	-1.71	2.18e-02	-0.49	1077.33	290.74	1001.87	366.19	-231.65
1	2	74	0.69	-0.39	-0.20	0.50	0.42	935.56	718.32	929.37	724.51	36.15
1	2	75	-8.92e-02	-1.64	-1.62	-0.11	0.18	1048.16	359.40	1047.12	360.44	26.77
1	2	76	2.79	0.23	1.43	1.59	1.28	955.89	418.76	715.50	659.15	267.08
1	2	77	0.56	-2.52	-2.49	0.54	0.27	849.96	180.01	760.57	269.39	227.80
1	2	78	3.81	1.76	1.85	3.71	-0.43	871.00	-189.79	157.25	523.96	497.69
1	2	79	6.19	-2.24	2.68	1.27	-4.16	343.74	-221.30	220.24	-97.80	233.52
1	2	80	9.37	-1.15	7.08	1.14	-4.34	698.23	-317.77	-225.82	606.28	291.49
1	2	81	5.57	3.08	3.81	4.85	-1.13	1506.19	-16.86	87.35	1401.99	-384.52
1	2	82	5.46	0.33	1.87	3.91	-2.35	1466.22	280.42	391.96	1354.67	-346.16
1	2	83	3.61	-0.12	1.50	1.99	-1.85	1366.58	635.93	673.81	1328.71	-161.99
1	2	84	1.82	0.32	1.24	0.90	-0.73	1332.70	762.31	767.95	1327.06	56.45
1	2	85	1.37	1.07	1.08	1.36	4.25e-02	1441.79	556.85	646.74	1351.90	267.33
1	2	86	4.87	0.38	0.96	4.29	1.51	1568.69	174.87	310.97	1432.59	413.72
1	2	87	6.35	7.99e-02	9.46e-02	6.34	0.30	1638.70	-248.66	-154.43	1544.46	411.07
1	2	88	10.65	5.33	9.82	6.16	-1.93	1729.80	-338.69	-337.20	1728.32	55.42
1	2	89	1.93	-2.43	-1.23	0.73	1.95	781.91	180.66	655.94	306.63	244.69
1	2	90	5.96	0.35	0.36	5.95	0.29	1584.83	-133.31	-82.58	1534.10	-290.85
1	2	91	4.84	0.27	1.32	3.79	-1.92	1504.20	307.66	361.26	1450.61	-247.50
1	2	92	1.58	1.11	1.27	1.42	-0.22	1414.26	593.32	603.32	1404.26	-90.05
1	2	93	2.20	0.71	1.56	1.34	0.74	1426.28	598.83	610.99	1414.12	99.58
1	2	94	5.63	-2.63e-02	1.89	3.72	2.68	1534.60	333.19	384.18	1483.61	242.19
1	2	95	9.81	-1.37	0.63	7.80	4.29	1626.00	7.08	44.83	1588.25	244.30
1	2	96	14.21	-2.77	-1.63	13.06	-4.26	1716.54	-127.81	-127.38	1716.11	-28.09
1	2	97	7.91	-3.42	0.53	3.96	-5.40	1626.12	-145.64	-137.28	1617.77	-121.36
1	2	98	2.75	-0.14	-0.13	2.74	-0.11	1562.43	53.98	105.61	1510.80	-274.26
1	2	99	2.14	9.74e-02	0.40	1.84	-0.73	1451.25	455.72	500.89	1406.08	-207.19
1	2	100	1.28	0.79	0.88	1.19	-0.19	1387.74	644.06	644.86	1386.94	-24.35
1	2	101	2.11	0.67	1.43	1.35	0.72	1431.74	506.22	536.96	1401.00	165.85
1	2	102	5.62	0.15	1.92	3.84	2.56	1540.83	129.78	189.81	1480.80	284.78
1	2	103	10.77	-2.03	1.04	7.70	5.46	1623.09	-247.55	-220.63	1596.17	222.79
1	2	104	18.05	-1.16	-0.70	17.60	-2.92	1765.15	-337.08	-333.84	1761.91	-82.52
1	2	105	9.63	-4.04	0.66	4.93	-6.50	1645.09	-399.51	-367.43	1613.01	-254.09

1	2	106	3.27	0.25	0.32	3.20	-0.46	1596.56	-140.01	-24.19	1480.74	-433.26
1	2	107	1.95	0.35	0.66	1.64	-0.64	1495.23	333.22	469.89	1358.56	-374.35
1	2	108	0.89	0.84	0.88	0.86	-2.20e-02	1376.24	675.09	728.10	1323.24	-185.35
1	2	109	1.89	0.14	1.17	0.87	0.86	1313.61	755.93	758.39	1311.14	37.00
1	2	110	3.88	-0.21	1.26	2.41	1.96	1398.84	499.70	573.46	1325.08	246.75
1	2	111	6.29	-0.88	0.50	4.91	2.82	1487.63	132.07	250.37	1369.33	382.58
1	2	112	6.09	1.86	1.87	6.09	-4.35e-02	1506.17	-10.68	92.54	1402.95	381.99
1	2	113	4.16	0.12	0.32	3.96	-0.88	2011.80	74.13	133.50	1952.43	-333.94
1	2	114	4.12	7.85e-02	0.91	3.30	-1.63	1930.47	335.09	372.47	1893.10	-241.31
1	2	115	3.42	0.19	1.38	2.23	-1.56	1862.95	557.84	568.05	1852.74	-115.00
1	2	116	2.42	0.83	1.71	1.54	-0.79	1850.98	641.78	643.27	1849.49	42.42
1	2	117	2.07	1.70	1.81	1.95	0.17	1918.41	545.28	571.05	1892.64	186.34
1	2	118	4.03	1.21	1.48	3.75	0.84	2022.76	334.81	375.76	1981.82	259.68
1	2	119	5.45	1.24	1.28	5.40	0.42	2111.68	128.16	151.21	2088.63	212.56
1	2	120	5.83	2.11	2.16	5.78	-0.44	2145.46	59.31	60.95	2143.82	58.48
1	2	121	0.40	-1.83	-1.71	0.27	0.51	883.89	358.88	882.85	359.92	23.31
1	2	122	5.37	1.39	1.63	5.13	-0.94	2106.53	168.44	175.14	2099.84	-113.70
1	2	123	4.11	1.27	1.80	3.58	-1.10	2031.34	384.32	395.46	2020.20	-134.98
1	2	124	2.46	1.90	2.20	2.16	-0.28	1976.84	541.24	543.47	1974.61	-56.60
1	2	125	3.15	1.29	2.16	2.28	0.93	1984.05	554.63	556.74	1981.94	54.80
1	2	126	5.11	0.51	1.49	4.13	1.88	2048.30	433.68	443.27	2038.71	124.07
1	2	127	6.45	-1.67e-02	0.14	6.29	1.00	2113.30	284.80	290.00	2108.10	97.32
1	2	128	6.49	0.73	0.75	6.47	-0.33	2138.24	240.25	240.29	2138.20	8.82
1	2	129	5.92	-0.52	-8.75e-02	5.49	-1.62	2131.37	222.34	222.82	2130.89	-30.31
1	2	130	4.06	0.66	1.33	3.39	-1.35	2087.26	306.34	315.63	2077.97	-128.30
1	2	131	2.36	1.19	1.54	2.01	-0.54	2004.27	477.27	486.64	1994.90	-119.27
1	2	132	1.90	1.51	1.73	1.69	0.19	1957.06	566.96	567.17	1956.85	-16.83
1	2	133	3.28	0.85	1.91	2.22	1.20	1982.51	490.66	496.86	1976.31	95.98
1	2	134	5.60	0.24	1.42	4.42	2.22	2056.39	295.70	306.80	2045.30	139.32
1	2	135	7.39	-0.41	-0.15	7.13	1.40	2118.36	114.45	116.45	2116.37	63.15
1	2	136	7.47	0.93	0.93	7.47	1.84e-02	2136.76	82.30	83.50	2135.57	-49.60
1	2	137	6.98	-0.77	-0.35	6.56	-1.75	2129.51	57.15	63.81	2122.84	-117.32
1	2	138	4.71	0.47	1.26	3.92	-1.65	2074.19	176.61	209.73	2041.07	-248.50
1	2	139	2.48	0.98	1.47	1.99	-0.70	1967.88	412.07	453.55	1926.40	-250.64
1	2	140	1.50	1.31	1.44	1.36	8.98e-02	1869.38	601.57	616.30	1854.65	-135.87
1	2	141	2.36	0.51	1.36	1.51	0.92	1833.98	629.32	629.79	1833.51	23.83
1	2	142	3.53	8.72e-03	0.93	2.61	1.55	1878.73	476.12	497.86	1857.00	173.24
1	2	143	4.35	-0.16	0.33	3.86	1.41	1955.13	235.84	281.22	1909.75	275.62
1	2	144	4.31	-6.87e-03	7.07e-02	4.24	0.57	2007.21	78.79	137.97	1948.03	332.60
1	2	145	2.95	2.86e-05	9.92e-02	2.85	-0.53	2360.39	113.42	139.64	2334.17	-241.32
1	2	146	3.18	0.14	0.53	2.79	-1.02	2286.88	331.56	345.32	2273.13	-163.41
1	2	147	2.90	0.50	1.08	2.33	-1.02	2241.39	494.91	498.17	2238.13	-75.37
1	2	148	2.41	1.14	1.48	2.08	-0.56	2239.00	565.74	566.18	2238.56	27.09
1	2	149	2.50	1.56	1.57	2.49	7.78e-02	2286.92	530.08	537.66	2279.34	115.13
1	2	150	3.64	1.25	1.34	3.55	0.46	2363.47	425.11	437.47	2351.11	154.28
1	2	151	4.62	1.08	1.10	4.61	0.26	2433.09	322.16	329.35	2425.89	123.00
1	2	152	4.99	1.13	1.14	4.98	-0.21	2464.88	283.56	284.55	2463.90	46.37
1	2	153	0.25	-1.99	-1.85	9.91e-02	-0.56	815.80	237.97	724.85	328.92	-210.44
1	2	154	4.68	1.20	1.35	4.54	-0.69	2453.04	337.04	337.91	2452.17	-42.90
1	2	155	3.82	1.49	1.71	3.60	-0.69	2413.53	445.35	447.52	2411.36	-65.30
1	2	156	2.89	1.97	1.99	2.86	-0.15	2383.05	531.15	531.66	2382.54	-30.62
1	2	157	3.23	1.61	1.87	2.97	0.60	2386.55	547.17	547.53	2386.19	25.51
1	2	158	4.22	0.99	1.31	3.91	0.95	2421.24	496.36	498.22	2419.39	59.73
1	2	159	4.84	0.67	0.71	4.79	0.43	2459.31	430.72	431.70	2458.33	44.65
1	2	160	4.67	0.83	0.83	4.66	-0.12	2471.82	412.37	412.38	2471.82	3.42
1	2	161	4.62	0.60	0.71	4.51	-0.65	2470.92	406.83	406.89	2470.86	-11.49
1	2	162	3.65	1.04	1.30	3.39	-0.79	2445.11	438.42	440.16	2443.37	-59.01
1	2	163	2.62	1.52	1.67	2.47	-0.38	2399.61	509.43	511.21	2397.82	-58.03
1	2	164	2.39	1.65	1.78	2.27	0.28	2371.73	543.77	543.82	2371.68	-9.11
1	2	165	3.38	1.07	1.59	2.86	0.97	2383.44	499.70	500.85	2382.30	46.42
1	2	166	4.65	0.53	0.98	4.20	1.28	2422.27	398.72	400.65	2420.35	62.34
1	2	167	5.51	0.20	0.29	5.42	0.67	2454.34	309.46	309.58	2454.22	15.97
1	2	168	5.34	0.38	0.38	5.34	2.64e-03	2455.96	292.66	293.51	2455.11	-42.80
1	2	169	5.29	0.17	0.25	5.21	-0.64	2450.68	287.18	289.63	2448.22	-72.78
1	2	170	4.13	0.60	0.89	3.85	-0.97	2401.87	344.34	354.40	2391.80	-143.57
1	2	171	2.76	1.06	1.30	2.52	-0.60	2323.13	460.63	472.70	2311.07	-149.42
1	2	172	1.90	1.37	1.37	1.90	4.24e-02	2252.01	550.65	555.00	2247.66	-85.89
1	2	173	2.31	0.81	1.18	1.95	0.64	2223.50	547.87	547.99	2223.38	14.12
1	2	174	2.94	0.31	0.74	2.51	0.97	2247.05	436.36	443.56	2239.85	113.93
1	2	175	3.30	6.11e-02	0.26	3.09	0.79	2304.79	253.16	270.93	2287.02	190.09
1	2	176	3.30	-1.86e-03	7.26e-02	3.22	0.49	2354.03	116.11	142.33	2327.81	240.82
1	2	177	2.28	5.64e-02	0.10	2.23	-0.31	2583.89	125.69	134.62	2574.95	-147.92
1	2	178	2.56	0.28	0.42	2.42	-0.56	2522.78	317.23	321.53	2518.49	-97.26
1	2	179	2.54	0.66	0.85	2.35	-0.57	2490.89	454.41	455.36	2489.95	-43.80
1	2	180	2.46	1.10	1.18	2.38	-0.32	2492.65	523.62	523.74	2492.54	14.77
1	2	181	2.76	1.28	1.28	2.76	5.96e-03	2528.71	523.05	525.02	2526.73	62.90

1	2	182	3.48	1.13	1.15	3.46	0.20	2585.23	476.41	479.69	2581.95	83.10
1	2	183	4.13	0.98	0.99	4.13	0.11	2639.25	426.04	428.08	2637.21	67.19
1	2	184	4.41	0.97	0.98	4.41	-0.12	2668.81	405.69	406.10	2668.40	30.42
1	2	185	-2.64	-4.19	-2.64	-4.19	2.20e-02	451.70	-192.67	104.92	154.11	-321.25
1	2	186	4.22	1.15	1.19	4.18	-0.37	2672.53	432.77	432.85	2672.45	-13.63
1	2	187	3.70	1.45	1.50	3.64	-0.34	2655.89	490.63	490.99	2655.53	-28.02
1	2	188	3.24	1.70	1.70	3.23	-6.05e-02	2641.17	539.80	539.90	2641.07	-14.65
1	2	189	3.32	1.56	1.61	3.26	0.30	2643.30	555.30	555.35	2643.24	10.52
1	2	190	3.75	1.21	1.28	3.67	0.43	2661.83	536.67	536.99	2661.51	26.12
1	2	191	4.01	0.98	1.00	4.00	0.19	2682.60	509.23	509.40	2682.43	19.30
1	2	192	3.89	1.01	1.01	3.89	-7.04e-02	2689.59	502.78	502.78	2689.59	1.11
1	2	193	3.85	1.00	1.02	3.83	-0.25	2689.13	500.03	500.04	2689.12	-4.63
1	2	194	3.33	1.23	1.30	3.26	-0.37	2674.93	509.74	510.04	2674.63	-25.50
1	2	195	2.77	1.53	1.56	2.74	-0.18	2650.66	537.40	537.71	2650.35	-25.48
1	2	196	2.70	1.55	1.59	2.66	0.20	2634.93	546.34	546.35	2634.92	-4.21
1	2	197	3.27	1.17	1.34	3.11	0.56	2638.98	517.83	518.01	2638.79	19.82
1	2	198	4.02	0.73	0.86	3.89	0.66	2656.27	462.54	462.81	2656.00	24.47
1	2	199	4.50	0.44	0.47	4.47	0.32	2667.52	416.56	416.56	2667.52	-0.15
1	2	200	4.42	0.42	0.42	4.42	-1.50e-02	2661.60	409.19	409.56	2661.23	-29.04
1	2	201	4.36	0.42	0.43	4.35	-0.23	2654.80	406.80	407.61	2653.99	-42.63
1	2	202	3.70	0.65	0.73	3.62	-0.48	2613.21	433.74	436.46	2610.49	-76.95
1	2	203	2.84	0.98	1.04	2.77	-0.35	2554.42	489.49	492.58	2551.32	-79.92
1	2	204	2.25	1.14	1.14	2.25	2.72e-03	2502.37	524.77	525.88	2501.26	-46.91
1	2	205	2.27	0.89	0.98	2.17	0.35	2478.75	501.17	501.21	2478.72	8.25
1	2	206	2.55	0.49	0.63	2.41	0.52	2491.47	404.81	406.94	2489.35	66.53
1	2	207	2.72	0.20	0.27	2.64	0.43	2535.15	249.06	254.81	2529.40	114.54
1	2	208	2.72	6.74e-02	0.11	2.68	0.31	2576.69	127.47	136.43	2567.73	147.86
1	2	209	1.94	9.53e-02	0.10	1.94	-0.13	2700.55	128.42	129.77	2699.20	-58.97
1	2	210	2.26	0.36	0.38	2.24	-0.21	2647.05	306.75	307.37	2646.43	-38.25
1	2	211	2.37	0.71	0.73	2.35	-0.20	2621.74	433.60	433.73	2621.61	-16.87
1	2	212	2.51	1.01	1.02	2.50	-0.12	2625.01	503.98	504.00	2624.99	5.94
1	2	213	2.86	1.12	1.12	2.86	-1.68e-02	2654.94	520.60	520.88	2654.66	24.35
1	2	214	3.40	1.06	1.06	3.40	4.10e-02	2700.99	501.20	501.67	2700.53	31.96
1	2	215	3.91	0.96	0.96	3.91	1.74e-02	2746.60	474.73	475.03	2746.29	26.15
1	2	216	4.14	0.95	0.96	4.14	-4.23e-02	2774.64	463.12	463.19	2774.57	12.83
1	2	217	10.32	-2.00	10.30	-1.98	0.53	-340.42	-776.95	-738.50	-378.87	-123.71
1	2	218	4.02	1.13	1.14	4.01	-0.11	2785.76	479.62	479.63	2785.76	-3.46
1	2	219	3.66	1.38	1.39	3.66	-8.75e-02	2780.34	516.16	516.20	2780.30	-9.48
1	2	220	3.37	1.54	1.54	3.37	4.12e-03	2773.56	549.12	549.13	2773.55	-5.51
1	2	221	3.35	1.49	1.49	3.35	0.11	2775.47	563.57	563.57	2775.46	3.00
1	2	222	3.54	1.28	1.29	3.53	0.14	2786.67	557.89	557.93	2786.63	8.41
1	2	223	3.66	1.12	1.12	3.66	6.33e-02	2799.24	545.94	545.96	2799.22	6.21
1	2	224	3.56	1.12	1.12	3.56	-2.15e-02	2803.67	544.29	544.29	2803.67	0.21
1	2	225	3.52	1.14	1.14	3.52	-6.38e-02	2803.30	542.14	542.14	2803.30	-1.56
1	2	226	3.18	1.30	1.30	3.17	-0.11	2794.47	543.43	543.46	2794.44	-8.40
1	2	227	2.86	1.46	1.47	2.86	-4.99e-02	2779.77	554.05	554.08	2779.73	-8.33
1	2	228	2.84	1.45	1.45	2.84	8.20e-02	2769.58	553.12	553.12	2769.58	-1.29
1	2	229	3.20	1.19	1.21	3.18	0.20	2770.09	531.38	531.40	2770.07	6.48
1	2	230	3.72	0.82	0.83	3.70	0.22	2776.98	495.54	495.56	2776.95	7.35
1	2	231	4.05	0.54	0.54	4.05	0.10	2777.87	467.60	467.60	2777.86	-1.92
1	2	232	4.01	0.48	0.48	4.01	-1.10e-02	2768.30	464.16	464.22	2768.24	-12.30
1	2	233	3.96	0.50	0.50	3.95	-6.60e-02	2760.90	462.01	462.14	2760.78	-17.01
1	2	234	3.48	0.67	0.68	3.47	-0.17	2723.40	475.31	475.69	2723.02	-29.14
1	2	235	2.86	0.89	0.90	2.85	-0.13	2674.94	503.81	504.23	2674.53	-30.00
1	2	236	2.42	0.99	0.99	2.42	-1.42e-02	2632.68	513.72	513.87	2632.53	-17.67
1	2	237	2.29	0.85	0.86	2.28	0.11	2612.06	478.91	478.92	2612.06	3.35
1	2	238	2.37	0.55	0.57	2.36	0.18	2620.22	387.14	387.45	2619.91	26.20
1	2	239	2.45	0.26	0.27	2.44	0.16	2656.53	243.12	243.98	2655.66	45.70
1	2	240	2.42	0.10	0.11	2.41	0.12	2693.12	129.78	131.15	2691.74	59.42
1	2	241	1.90	9.92e-02	0.10	1.90	4.71e-02	2719.30	128.79	129.09	2719.01	27.51
1	2	242	2.23	0.37	0.37	2.22	0.11	2667.01	305.12	305.26	2666.88	17.85
1	2	243	2.36	0.72	0.73	2.35	0.13	2642.87	430.26	430.29	2642.84	8.28
1	2	244	2.50	1.02	1.02	2.50	7.73e-02	2646.55	500.66	500.66	2646.55	-1.27
1	2	245	2.85	1.14	1.14	2.85	-1.09e-02	2675.64	520.00	520.03	2675.61	-8.51
1	2	246	3.39	1.09	1.09	3.38	-7.43e-02	2719.98	505.25	505.31	2719.93	-11.40
1	2	247	3.90	0.99	0.99	3.90	-5.54e-02	2764.07	483.09	483.13	2764.03	-9.56
1	2	248	4.14	0.98	0.98	4.14	2.48e-02	2791.77	473.15	473.17	2791.76	-5.30
1	2	249	13.30	-8.33	3.33	1.64	-10.78	-975.11	-1890.56	-1840.46	-1025.21	208.20
1	2	250	4.02	1.15	1.16	4.01	0.13	2804.14	487.82	487.82	2804.14	-0.10
1	2	251	3.66	1.40	1.41	3.65	0.13	2800.66	520.51	520.51	2800.66	1.92
1	2	252	3.37	1.55	1.56	3.36	6.03e-02	2795.21	550.49	550.49	2795.21	0.80
1	2	253	3.33	1.50	1.50	3.33	-3.43e-02	2797.00	564.67	564.67	2797.00	-1.83
1	2	254	3.51	1.30	1.30	3.51	-7.28e-02	2806.86	561.15	561.16	2806.85	-3.49
1	2	255	3.63	1.13	1.13	3.63	-2.69e-02	2817.99	551.73	551.74	2817.99	-2.59
1	2	256	3.53	1.13	1.13	3.53	2.69e-02	2821.99	550.81	550.81	2821.99	-0.35
1	2	257	3.49	1.15	1.15	3.49	5.57e-02	2821.64	548.68	548.68	2821.64	0.33

1	2	258	3.16	1.30	1.30	3.15	8.01e-02	2813.69	548.59	548.59	2813.68	3.07
1	2	259	2.86	1.45	1.45	2.86	3.52e-02	2800.49	556.58	556.58	2800.49	3.33
1	2	260	2.85	1.43	1.43	2.85	-5.10e-02	2791.18	554.22	554.22	2791.18	0.91
1	2	261	3.18	1.19	1.19	3.17	-0.13	2791.15	533.66	533.66	2791.15	-1.87
1	2	262	3.68	0.82	0.83	3.67	-0.14	2796.38	501.00	501.00	2796.37	-2.11
1	2	263	4.00	0.55	0.55	4.00	-7.46e-02	2795.59	475.96	475.96	2795.59	1.40
1	2	264	3.96	0.50	0.50	3.96	-6.81e-03	2785.46	473.08	473.09	2785.45	5.31
1	2	265	3.91	0.51	0.51	3.91	2.80e-02	2778.01	470.87	470.89	2777.98	7.11
1	2	266	3.45	0.67	0.68	3.45	7.69e-02	2741.26	481.84	481.90	2741.20	11.85
1	2	267	2.85	0.89	0.89	2.85	4.58e-02	2694.50	505.97	506.03	2694.43	12.29
1	2	268	2.43	0.97	0.97	2.43	-2.73e-02	2653.77	511.94	511.97	2653.75	7.30
1	2	269	2.30	0.83	0.84	2.29	-9.27e-02	2633.62	475.43	475.43	2633.62	-1.53
1	2	270	2.36	0.55	0.56	2.36	-0.12	2641.06	384.37	384.43	2641.00	-11.48
1	2	271	2.42	0.26	0.26	2.41	-8.79e-02	2676.20	242.15	242.32	2676.03	-20.27
1	2	272	2.38	0.11	0.11	2.38	-6.07e-02	2712.00	130.07	130.34	2711.73	-26.48
1	2	273	2.14	6.59e-02	8.94e-02	2.11	0.22	2641.60	128.01	133.32	2636.29	115.38
1	2	274	2.49	0.30	0.40	2.39	0.45	2583.93	313.28	315.76	2581.45	75.03
1	2	275	2.51	0.68	0.83	2.36	0.50	2555.82	444.08	444.62	2555.28	33.72
1	2	276	2.46	1.12	1.19	2.39	0.31	2559.11	512.54	512.58	2559.07	-9.63
1	2	277	2.72	1.34	1.34	2.72	1.84e-03	2592.65	520.50	521.43	2591.71	-43.95
1	2	278	3.41	1.24	1.26	3.39	-0.22	2643.94	489.28	490.83	2642.39	-57.73
1	2	279	4.10	1.08	1.09	4.09	-0.16	2693.30	453.55	454.54	2692.31	-47.03
1	2	280	4.41	1.05	1.06	4.41	8.68e-02	2721.85	438.88	439.11	2721.61	-23.14
1	2	281	1.32	-3.58	-1.14	-1.12	2.45	427.89	-562.66	-185.88	51.11	480.89
1	2	282	4.23	1.21	1.27	4.18	0.39	2729.70	459.13	459.15	2729.69	5.62
1	2	283	3.69	1.50	1.57	3.62	0.38	2719.32	503.30	503.41	2719.21	15.92
1	2	284	3.22	1.73	1.74	3.21	0.10	2708.69	542.33	542.36	2708.66	8.34
1	2	285	3.26	1.60	1.63	3.23	-0.23	2710.23	557.30	557.33	2710.20	-7.43
1	2	286	3.65	1.26	1.31	3.60	-0.35	2724.29	546.65	546.79	2724.15	-17.36
1	2	287	3.89	1.03	1.04	3.88	-0.15	2740.28	528.47	528.54	2740.20	-12.94
1	2	288	3.77	1.05	1.05	3.77	7.59e-02	2745.87	524.69	524.69	2745.87	-1.12
1	2	289	3.73	1.04	1.06	3.71	0.21	2745.48	522.02	522.03	2745.48	2.62
1	2	290	3.25	1.25	1.30	3.20	0.31	2734.27	526.52	526.65	2734.14	16.69
1	2	291	2.77	1.50	1.52	2.75	0.14	2715.07	544.52	544.66	2714.93	17.21
1	2	292	2.73	1.50	1.53	2.70	-0.18	2702.30	548.13	548.14	2702.29	3.36
1	2	293	3.22	1.17	1.28	3.11	-0.47	2704.68	523.54	523.61	2704.61	-12.30
1	2	294	3.90	0.75	0.85	3.80	-0.55	2716.63	479.41	479.50	2716.54	-14.59
1	2	295	4.33	0.48	0.50	4.31	-0.27	2722.44	443.81	443.82	2722.44	2.67
1	2	296	4.26	0.45	0.45	4.26	3.79e-03	2714.68	438.65	438.87	2714.46	22.42
1	2	297	4.20	0.46	0.47	4.19	0.17	2707.65	436.13	436.57	2707.21	31.68
1	2	298	3.58	0.69	0.73	3.53	0.36	2668.36	455.17	456.57	2666.97	55.50
1	2	299	2.80	0.98	1.01	2.77	0.24	2614.85	496.19	497.77	2613.26	57.84
1	2	300	2.31	1.08	1.09	2.30	-4.97e-02	2567.57	518.51	519.08	2567.00	34.25
1	2	301	2.30	0.86	0.93	2.22	-0.32	2545.25	489.79	489.81	2545.23	-6.25
1	2	302	2.51	0.51	0.61	2.41	-0.44	2555.45	396.64	397.80	2554.28	-50.16
1	2	303	2.63	0.21	0.27	2.58	-0.35	2595.47	247.21	250.48	2592.20	-87.55
1	2	304	2.60	7.80e-02	0.10	2.57	-0.24	2634.82	129.44	134.61	2629.64	-113.75
1	2	305	2.72	1.30e-02	7.50e-02	2.66	0.40	2461.71	122.15	140.79	2443.08	207.97
1	2	306	3.09	0.17	0.49	2.77	0.91	2392.52	328.96	338.16	2383.33	137.40
1	2	307	2.89	0.53	1.05	2.37	0.98	2354.08	476.75	478.79	2352.03	61.89
1	2	308	2.48	1.12	1.48	2.12	0.60	2354.84	543.42	543.68	2354.58	-21.54
1	2	309	2.42	1.66	1.66	2.42	2.21e-02	2398.49	523.29	527.67	2394.11	-90.50
1	2	310	3.47	1.47	1.56	3.37	-0.43	2466.62	448.86	455.86	2459.63	-118.59
1	2	311	4.55	1.28	1.32	4.51	-0.36	2528.76	377.05	381.19	2524.62	-94.23
1	2	312	5.03	1.27	1.28	5.02	0.15	2559.13	350.65	351.36	2558.42	-39.68
1	2	313	1.54	-2.21	-1.16	0.50	1.68	938.73	-27.28	620.07	291.39	454.19
1	2	314	4.71	1.34	1.50	4.55	0.73	2555.36	387.51	387.78	2555.09	24.08
1	2	315	3.77	1.62	1.87	3.52	0.68	2527.14	464.77	465.67	2526.23	43.27
1	2	316	2.86	2.03	2.05	2.84	0.12	2503.31	529.51	529.75	2503.08	21.44
1	2	317	3.19	1.64	1.85	2.97	-0.54	2505.12	545.80	545.97	2504.96	-17.94
1	2	318	4.06	1.07	1.32	3.80	-0.83	2531.27	513.66	514.54	2530.39	-42.00
1	2	319	4.59	0.76	0.80	4.56	-0.37	2560.23	469.85	470.33	2559.75	-31.61
1	2	320	4.42	0.91	0.91	4.42	0.13	2570.18	457.86	457.86	2570.17	-2.99
1	2	321	4.36	0.72	0.80	4.27	0.55	2569.40	452.64	452.66	2569.38	7.19
1	2	322	3.49	1.11	1.32	3.28	0.66	2549.63	471.28	472.11	2548.80	41.57
1	2	323	2.59	1.53	1.61	2.51	0.29	2514.01	519.46	520.35	2513.12	42.22
1	2	324	2.47	1.58	1.67	2.38	-0.27	2491.86	541.13	541.15	2491.84	7.11
1	2	325	3.29	1.09	1.48	2.90	-0.84	2500.64	505.02	505.56	2500.11	-32.70
1	2	326	4.41	0.60	0.95	4.06	-1.10	2529.84	428.44	429.27	2529.01	-41.81
1	2	327	5.18	0.29	0.36	5.11	-0.57	2551.86	363.12	363.14	2551.85	-6.06
1	2	328	5.02	0.44	0.44	5.02	1.81e-02	2549.99	351.75	352.38	2549.36	37.24
1	2	329	4.96	0.28	0.34	4.90	0.51	2544.04	346.54	348.13	2542.45	59.02
1	2	330	3.89	0.69	0.89	3.69	0.79	2498.95	386.85	392.85	2492.95	112.37
1	2	331	2.68	1.10	1.24	2.54	0.44	2428.99	472.65	479.83	2421.81	118.27
1	2	332	2.03	1.27	1.29	2.02	-9.44e-02	2366.12	537.00	539.62	2363.50	69.14
1	2	333	2.33	0.83	1.11	2.05	-0.58	2339.64	525.70	525.77	2339.57	-11.27

1	2	334	2.85	0.38	0.72	2.50	-0.85	2357.87	423.58	428.15	2353.31	-93.85
1	2	335	3.14	0.11	0.28	2.97	-0.69	2409.38	254.64	266.63	2397.39	-160.25
1	2	336	3.10	2.28e-02	8.01e-02	3.04	-0.42	2455.98	123.92	142.18	2437.72	-205.58
1	2	337	3.89	0.16	0.31	3.75	0.73	2166.15	100.60	146.38	2120.36	304.11
1	2	338	4.10	0.15	0.94	3.31	1.58	2084.23	343.64	369.22	2058.65	209.48
1	2	339	3.40	0.30	1.39	2.32	1.48	2026.91	530.62	536.88	2020.65	96.58
1	2	340	2.54	0.83	1.67	1.70	0.86	2019.08	603.04	604.00	2018.12	-36.97
1	2	341	2.01	1.76	1.87	1.90	0.12	2079.02	531.71	547.66	2063.08	-156.27
1	2	342	3.53	1.61	1.84	3.30	-0.62	2175.45	372.09	396.54	2151.00	-208.55
1	2	343	5.31	1.61	1.74	5.17	-0.69	2258.54	227.66	241.35	2244.85	-166.14
1	2	344	6.02	2.34	2.36	5.99	0.30	2291.78	184.88	186.21	2290.45	-52.96
1	2	345	0.27	-1.72	-1.55	0.10	0.55	1076.03	282.93	1000.64	358.32	232.61
1	2	346	5.49	1.61	1.98	5.12	1.13	2265.76	255.39	258.06	2263.08	73.30
1	2	347	3.83	1.59	2.11	3.31	0.95	2204.49	405.49	410.87	2199.11	98.20
1	2	348	2.25	2.14	2.22	2.18	4.88e-02	2156.23	526.11	527.36	2154.98	45.08
1	2	349	3.13	1.32	2.03	2.43	-0.88	2160.57	542.39	543.40	2159.56	-40.51
1	2	350	4.82	0.65	1.43	4.03	-1.63	2213.11	458.89	463.59	2208.41	-90.63
1	2	351	6.04	0.19	0.33	5.90	-0.89	2265.19	358.47	361.09	2262.57	-70.63
1	2	352	6.00	0.92	0.95	5.97	0.39	2286.25	328.13	328.16	2286.22	-6.74
1	2	353	5.47	-0.18	0.18	5.10	1.38	2279.85	312.46	312.66	2279.66	19.74
1	2	354	3.76	0.86	1.39	3.22	1.13	2245.50	364.82	369.46	2240.86	93.31
1	2	355	2.29	1.31	1.49	2.11	0.37	2176.78	486.63	491.58	2171.82	91.36
1	2	356	2.05	1.47	1.59	1.93	-0.23	2137.52	550.55	550.66	2137.41	13.26
1	2	357	3.14	0.97	1.72	2.39	-1.03	2158.63	488.61	491.87	2155.36	-73.73
1	2	358	5.17	0.38	1.30	4.25	-1.89	2220.27	340.32	345.65	2214.94	-99.99
1	2	359	6.84	-0.21	1.87e-02	6.62	-1.25	2268.56	211.57	212.28	2267.85	-38.17
1	2	360	6.82	0.94	0.94	6.82	0.11	2281.02	190.22	191.28	2279.97	47.04
1	2	361	6.39	-0.46	-0.14	6.07	1.45	2272.45	169.15	173.53	2268.07	95.92
1	2	362	4.28	0.66	1.26	3.67	1.35	2220.68	252.74	272.99	2200.43	198.61
1	2	363	2.36	1.13	1.40	2.09	0.51	2123.01	431.32	457.04	2097.29	207.03
1	2	364	1.67	1.29	1.36	1.61	-0.14	2035.30	576.57	585.76	2026.12	115.41
1	2	365	2.33	0.67	1.29	1.71	-0.80	2003.82	591.62	591.88	2003.56	-19.30
1	2	366	3.33	0.21	0.97	2.57	-1.33	2039.39	461.68	475.55	2025.51	-147.31
1	2	367	4.13	-5.39e-02	0.41	3.67	-1.32	2108.84	251.83	283.98	2076.68	-242.25
1	2	368	4.04	7.61e-02	0.16	3.96	-0.56	2162.21	102.96	147.74	2117.42	-300.36
1	2	369	6.10	3.16	4.27	4.99	1.43	1741.95	54.35	143.45	1652.85	377.39
1	2	370	5.62	0.39	2.11	3.90	2.46	1663.98	326.56	399.96	1590.59	304.59
1	2	371	3.17	0.37	1.56	1.99	1.38	1571.03	600.63	622.41	1549.25	143.75
1	2	372	2.07	0.45	1.17	1.35	0.80	1543.25	705.94	709.04	1540.15	-50.88
1	2	373	1.76	0.86	0.93	1.69	0.25	1629.38	547.76	603.72	1573.43	-239.56
1	2	374	3.06	1.06	1.06	3.05	-3.77e-02	1757.48	226.00	311.09	1672.40	-350.80
1	2	375	6.21	0.82	1.19	5.84	-1.36	1853.83	-65.82	-8.35	1796.37	-327.12
1	2	376	10.74	6.45	10.19	7.00	1.43	1954.10	-97.63	-96.06	1952.53	-56.81
1	2	377	0.14	-1.46	-1.43	0.11	-0.24	1046.85	351.78	1045.86	352.78	-26.23
1	2	378	5.98	1.29	1.48	5.79	0.92	1823.36	15.37	40.60	1798.14	212.05
1	2	379	3.10	1.20	1.46	2.84	0.65	1728.20	319.16	349.12	1698.24	203.27
1	2	380	1.77	1.13	1.15	1.75	-0.12	1643.58	558.73	564.71	1637.59	80.38
1	2	381	2.55	0.70	1.35	1.91	-0.88	1654.50	570.46	576.80	1648.17	-82.64
1	2	382	4.56	0.53	1.64	3.45	-1.80	1752.77	364.56	390.95	1726.37	-189.60
1	2	383	9.61	-1.38	0.56	7.67	-4.18	1842.22	153.94	174.11	1822.06	-183.41
1	2	384	13.05	-1.45	-0.17	11.77	4.11	1922.86	51.26	51.59	1922.53	24.84
1	2	385	7.49	-2.42	1.33	3.74	4.81	1848.52	43.49	48.19	1843.82	91.96
1	2	386	2.49	0.28	0.28	2.48	-0.12	1784.01	159.42	184.64	1758.78	200.85
1	2	387	2.27	0.27	0.44	2.10	0.55	1680.69	460.27	485.50	1655.46	173.66
1	2	388	1.56	0.88	0.88	1.55	6.20e-02	1623.11	604.76	605.21	1622.67	21.22
1	2	389	2.38	0.73	1.27	1.85	-0.77	1659.16	493.62	510.95	1641.82	-141.08
1	2	390	4.37	0.70	1.70	3.37	-1.64	1763.83	188.02	219.24	1732.61	-219.59
1	2	391	10.58	-2.09	0.69	7.80	-5.24	1845.95	-61.67	-48.36	1832.64	-158.75
1	2	392	15.75	-0.34	0.24	15.17	3.00	1960.40	-134.07	-131.03	1957.35	79.78
1	2	393	8.80	-3.01	0.86	4.93	5.54	1861.07	-174.51	-153.60	1840.16	205.24
1	2	394	2.75	0.69	0.69	2.74	8.85e-02	1799.89	-6.47	62.02	1731.41	344.99
1	2	395	2.17	0.45	0.66	1.96	0.57	1688.37	367.28	454.60	1601.05	328.22
1	2	396	1.21	0.93	0.93	1.21	-2.71e-02	1575.40	645.66	676.70	1544.36	167.02
1	2	397	2.04	0.43	1.15	1.31	-0.80	1530.71	699.72	701.05	1529.37	-33.28
1	2	398	3.27	0.35	1.35	2.26	-1.39	1598.60	493.76	537.85	1554.50	-216.26
1	2	399	5.77	-0.66	0.70	4.42	-2.62	1689.04	194.20	277.80	1605.44	-343.47
1	2	400	5.95	2.39	2.52	5.82	-0.66	1743.08	53.20	141.14	1655.14	-375.31
1	2	401	7.95	-2.81	7.07	-1.94	-2.94	1065.37	-160.59	-43.67	948.45	360.10
1	2	402	3.15	-0.97	1.38	0.80	-2.04	1093.59	141.91	369.33	866.17	405.85
1	2	403	2.95	-3.70e-02	0.41	2.50	1.06	1047.56	655.49	763.83	939.22	175.32
1	2	404	1.20	-0.33	-0.27	1.14	0.29	987.24	832.73	863.32	956.66	-61.56
1	2	405	1.73	-1.10	-1.08	1.71	-0.23	1152.26	516.33	717.10	951.49	-295.58
1	2	406	5.46	-2.07	-1.93	5.32	-1.01	1185.43	70.65	320.00	936.07	-464.54
1	2	407	5.36	-4.32	1.18	-0.14	4.79	1151.46	-623.45	-401.48	929.49	-587.12
1	2	408	19.96	-9.48	19.87	-9.39	1.63	1307.80	-873.64	-872.48	1306.64	-50.18
1	2	409	1.19	-1.70	-1.56	1.05	-0.61	856.48	175.89	769.03	263.34	-227.76

1	2	410	3.64	-3.23	0.58	-0.17	-3.41	1069.02	-420.78	-260.27	908.50	461.92
1	2	411	4.05	-1.97	-1.93	4.01	0.52	1063.51	269.11	375.90	956.72	270.98
1	2	412	1.66	-1.21	-1.19	1.64	0.23	1011.61	639.24	667.19	983.66	98.12
1	2	413	1.51	-0.52	-0.47	1.46	-0.31	1037.26	631.97	672.05	997.18	-120.99
1	2	414	5.07	-0.47	0.39	4.21	-2.01	1126.97	272.42	394.95	1004.44	-299.49
1	2	415	5.26	0.67	5.06	0.87	0.94	1194.78	-307.54	-185.73	1072.97	-410.07
1	2	416	26.40	7.47	25.92	7.94	2.97	1348.72	-135.23	-132.00	1345.49	-69.16
1	2	417	4.62	-3.10	3.44	-1.92	2.78	1282.15	-573.46	-553.05	1261.74	193.52
1	2	418	7.39	-3.24	-2.62	6.77	2.49	1128.34	-112.82	53.61	961.92	422.92
1	2	419	2.80	-1.51	-0.98	2.26	1.42	1082.29	435.76	544.25	973.81	241.60
1	2	420	1.26	-0.48	-0.32	1.10	0.49	993.04	718.40	720.79	990.64	25.52
1	2	421	1.41	-0.26	-0.17	1.32	-0.38	1063.39	513.46	593.34	983.51	-193.77
1	2	422	5.60	-0.64	0.20	4.76	-2.12	1105.74	44.69	181.32	969.11	-355.39
1	2	423	7.46	-0.65	7.18	-0.37	1.48	1175.82	-622.58	-524.44	1077.68	-408.49
1	2	424	32.14	6.72	32.12	6.74	0.75	1367.49	-397.72	-397.68	1367.45	8.39
1	2	425	6.85	-2.68	6.84	-2.67	0.30	1284.96	-868.56	-799.67	1216.07	378.95
1	2	426	8.10	-2.72	-1.93	7.31	2.81	1193.14	-347.01	-79.05	925.18	583.86
1	2	427	2.46	-1.10	-0.63	1.99	1.21	1200.04	253.13	513.48	939.70	422.78
1	2	428	0.88	-0.16	-3.43e-02	0.75	0.35	1103.81	672.73	819.80	956.74	204.37
1	2	429	1.20	-3.72e-02	0.25	0.91	-0.52	963.70	842.81	857.61	948.91	-39.62
1	2	430	4.13	-0.19	0.66	3.28	-1.72	1097.42	476.22	654.15	919.50	-280.84
1	2	431	4.25	0.37	3.65	0.98	1.41	1109.27	-22.63	205.26	881.38	-453.89
1	2	432	8.80	-0.34	6.58	1.88	3.92	1096.51	-88.37	25.61	982.53	-349.37
1	2	433	4.42	-4.25	-1.27	1.44	-4.12	647.13	-7.58	523.01	116.54	256.63
1	2	434	0.94	-2.40	-2.26	0.80	0.67	939.71	273.83	903.57	309.98	150.88
1	2	435	0.31	-1.98	-1.97	0.30	-0.16	1059.09	349.69	1050.61	358.16	-77.09
1	2	436	1.04	-2.82	-2.21	0.43	-1.40	1018.53	178.32	869.08	327.77	-321.30
1	2	437	-2.17	-5.34	-4.18	-3.33	-1.53	674.80	-236.17	273.31	165.31	-452.27
1	2	438	9.34	-5.95	9.22	-5.83	1.34	36.37	-691.20	-456.12	-198.71	-340.25
1	2	439	5.24	-4.12	-2.10	3.21	3.85	317.34	-268.85	174.30	-125.81	-251.77
1	2	440	8.80	-6.67	8.68	-6.56	1.31	129.56	-362.96	-190.75	-42.65	234.86
1	2	441	-1.89	-6.04	-4.55	-3.39	1.99	556.12	14.81	373.96	196.98	255.78
1	2	442	0.98	-3.16	-2.66	0.48	1.35	832.92	318.90	814.67	337.15	95.12
1	2	443	0.25	-2.42	-2.42	0.25	-3.30e-03	851.73	307.13	815.80	343.05	-135.19
1	2	444	-2.67	-3.48	-3.17	-2.98	0.39	587.45	6.24	375.09	218.60	-279.87
1	2	445	8.13	-2.40	7.82	-2.09	1.78	-52.07	-393.07	-281.80	-163.34	-159.88
1	2	447	3.13	-5.17	-2.29	0.24	-3.95	308.36	-212.60	280.36	-184.60	117.47
1	2	448	1.55	-9.37	-2.68	-5.14	5.32	237.08	-201.02	230.51	-194.45	-53.23
1	2	449	13.64	4.00	8.92	8.72	4.82	313.67	35.37	100.79	248.25	118.01
1	2	450	4.14	-2.24	-2.23	4.13	0.13	1374.05	-90.98	-72.65	1355.72	162.82
1	2	451	3.73	-0.50	-0.48	3.71	-0.28	1987.00	-41.01	-30.13	1976.12	148.13
1	2	452	3.06	-6.32e-02	-5.84e-02	3.06	-0.12	2366.01	-27.18	-22.35	2361.17	107.44
1	2	453	2.47	-3.59e-03	-2.00e-03	2.47	-6.27e-02	2601.99	-20.87	-19.20	2600.32	66.15
1	2	454	2.14	5.21e-03	5.50e-03	2.13	-2.46e-02	2723.24	-17.88	-17.62	2722.98	26.62
1	2	455	2.08	6.14e-03	6.20e-03	2.08	1.16e-02	2742.81	-17.42	-17.37	2742.75	-11.86
1	2	456	2.30	-1.26e-03	-1.10e-04	2.30	5.14e-02	2662.80	-19.44	-18.47	2661.84	-50.95
1	2	457	2.77	-6.09e-02	-5.63e-02	2.76	0.11	2475.02	-24.63	-21.23	2471.63	-92.02
1	2	458	3.33	-0.52	-0.50	3.31	0.29	2158.31	-37.65	-29.36	2150.02	-134.68
1	2	459	3.55	-3.07	-3.03	3.51	0.50	1634.79	-95.41	-81.32	1620.70	-155.49
1	2	460	16.31	4.98	12.70	8.60	-5.28	801.38	87.99	137.26	752.12	-180.87
1	2	461	3.60	-3.50	-2.56	2.65	2.41	303.45	-216.16	271.00	-183.70	-125.74
1	2	462	1.53	-7.07	-2.73	-2.81	-4.30	229.53	-202.96	223.17	-196.60	52.07
1	2	463	18.78	6.17	11.14	13.80	-6.16	335.88	47.74	142.45	241.17	-135.35
1	2	464	4.90	-2.82	-2.80	4.88	-0.39	1363.93	-96.46	-79.79	1347.26	-155.14
1	2	465	2.92	-0.54	-0.51	2.89	0.28	1990.55	-41.24	-30.55	1979.86	-146.99
1	2	466	2.21	-8.14e-02	-7.41e-02	2.20	0.13	2372.92	-27.21	-22.43	2368.14	-107.04
1	2	467	1.65	-9.79e-03	-7.02e-03	1.65	6.77e-02	2610.05	-20.89	-19.24	2608.40	-65.84
1	2	468	1.32	4.11e-03	4.62e-03	1.32	2.60e-02	2731.61	-17.90	-17.65	2731.36	-26.30
1	2	469	1.26	5.37e-03	5.52e-03	1.26	-1.38e-02	2751.02	-17.45	-17.40	2750.96	12.22
1	2	470	1.44	-6.65e-03	-4.28e-03	1.44	-5.86e-02	2670.42	-19.51	-18.53	2669.43	51.38
1	2	471	1.81	-8.12e-02	-7.21e-02	1.81	-0.13	2481.33	-24.82	-21.39	2477.90	92.58
1	2	472	2.24	-0.60	-0.56	2.20	-0.33	2161.54	-38.52	-30.19	2153.21	135.13
1	2	473	3.37	-3.66	-3.64	3.36	-0.28	1623.55	-104.13	-90.66	1610.08	151.96
1	2	474	20.39	7.33	14.91	12.81	6.44	782.70	123.34	182.20	723.84	188.00
1	2	475	4.80	-8.19	-0.86	-2.54	6.44	297.30	-305.33	-305.30	297.26	4.30
1	2	476	22.41	-15.21	21.84	-14.64	4.59	928.49	-1529.28	-1529.11	928.32	-20.57
1	2	477	14.36	-20.92	10.59	-17.14	10.90	814.93	-1179.10	-1178.15	813.98	43.35
1	2	478	2.47	-4.24	-3.96	2.19	1.33	764.81	-1963.68	-1963.67	764.81	4.33
1	2	479	4.00	-13.93	-8.26	-1.66	-8.34	266.64	-348.92	-343.47	261.18	-57.70
1	2	480	22.59	14.51	19.25	17.85	3.98	318.59	-1432.77	-1432.38	318.19	26.26
1	2	481	2.66	-4.59	1.85	-3.77	2.29	-64.26	-296.12	-211.86	-148.51	111.52
1	2	482	-1.37	-3.02	-2.99	-1.41	0.25	714.63	-89.38	701.12	-75.87	103.34
1	2	483	-0.58	-4.57	-4.57	-0.58	-8.12e-04	963.24	-66.14	963.17	-66.07	8.93
1	2	484	-0.51	-4.34	-4.30	-0.54	-0.39	797.44	-75.70	787.47	-65.73	-92.78
1	2	485	6.35	-3.27	-0.78	3.87	-4.21	283.21	-178.71	131.57	-27.07	-216.91
1	2	486	15.73	-21.80	6.65	-12.73	16.07	-417.19	-1556.83	-1511.53	-462.49	222.65

1	2	487	22.34	8.50	19.08	11.76	-5.87	88.35	-1984.95	-1983.06	86.47	-62.51
1	2	488	3.83	-4.26	1.82	-2.24	3.50	16.04	-493.50	-361.62	-115.83	223.17
1	2	489	-1.33	-3.00	-2.94	-1.39	0.31	708.32	-117.36	663.02	-72.06	188.00
1	2	490	-0.56	-4.52	-4.52	-0.56	3.39e-02	1096.88	-70.68	1089.18	-62.98	94.51
1	2	491	-0.79	-4.92	-4.92	-0.79	-2.09e-02	1135.47	-64.95	1135.34	-64.83	-12.27
1	2	492	-0.43	-4.30	-3.37	-1.36	-1.65	806.38	-99.01	793.71	-86.34	-106.35
1	2	493	3.26	1.14	1.17	3.23	-0.25	302.36	-74.19	290.51	-62.34	65.75
1	2	494	-0.54	-4.52	-4.14	-0.92	1.17	962.36	-85.63	956.86	-80.13	75.72
1	2	495	-0.73	-5.16	-5.16	-0.73	-1.72e-02	1141.44	-65.47	1140.72	-64.76	-29.39
1	2	496	-0.52	-3.68	-3.58	-0.62	-0.55	958.13	-81.35	940.25	-63.46	-135.16
1	2	497	8.18	-1.47	2.73	3.99	-4.78	462.38	-170.18	316.17	-23.97	-266.66
1	2	498	17.96	-21.22	10.71	-13.96	15.22	-450.40	-1145.90	-1126.29	-470.01	115.13
1	2	499	4.67	3.69	3.89	4.46	0.40	-9.87	-124.45	-111.30	-23.02	-36.52
1	2	500	12.97	-22.86	7.10	-16.98	-13.26	-461.88	-828.16	-773.61	-516.42	-130.40
1	2	501	7.42	-0.95	1.92	4.54	3.98	497.76	-76.13	436.26	-14.63	177.51
1	2	502	-0.31	-4.14	-4.06	-0.39	0.54	886.61	-66.14	884.58	-64.10	43.97
1	2	503	-0.58	-5.35	-5.34	-0.59	-0.22	888.95	-70.40	885.20	-66.65	-59.89
1	2	504	4.89	-4.56	-2.80	3.12	-3.69	485.20	-106.78	416.74	-38.32	-189.32
1	2	505	10.59	-17.63	2.86	-9.89	12.59	-378.77	-968.75	-939.65	-407.87	127.75
1	2	506	0.67	-5.27	-1.77	-2.83	-2.92	-152.15	-269.28	-184.72	-236.71	-52.48
1	2	507	1.47	-5.81	-3.83	-0.51	3.24	-144.42	-272.04	-220.91	-195.56	62.53
1	2	508	-0.53	-5.40	-5.40	-0.53	-1.83e-03	963.01	-66.23	962.94	-66.15	-8.56
1	2	509	-1.24	-3.70	-3.67	-1.27	-0.28	711.81	-88.83	698.68	-75.70	-101.69
1	2	510	-0.18	-5.31	-5.28	-0.21	0.38	794.77	-74.15	784.94	-64.32	91.90
1	2	511	6.93	-2.24	0.80	3.89	4.32	274.81	-170.21	126.71	-22.11	209.69
1	2	512	16.51	-23.26	5.90	-12.65	-17.59	-438.11	-1562.26	-1508.96	-491.41	-238.92
1	2	513	23.10	-17.70	22.14	-16.74	-6.19	954.59	-1516.08	-1515.93	954.43	19.74
1	2	514	23.17	8.63	17.83	13.97	7.01	72.96	-1989.07	-1987.23	71.13	61.49
1	2	515	5.44	-3.93	3.99	-2.48	-3.39	12.91	-486.86	-361.82	-112.13	-216.46
1	2	516	-1.07	-3.47	-3.42	-1.12	-0.35	703.74	-115.83	659.00	-71.08	-186.20
1	2	517	-0.50	-4.95	-4.95	-0.50	-3.48e-02	1096.39	-70.66	1088.72	-62.98	-94.35
1	2	518	-0.63	-5.32	-5.32	-0.63	6.06e-03	1136.06	-64.24	1135.93	-64.11	12.49
1	2	519	-0.38	-4.36	-3.67	-1.07	1.51	814.49	-93.61	801.22	-80.34	108.98
1	2	520	3.75	-1.26	-0.27	2.76	-2.00	-49.94	-116.85	-108.88	-57.91	21.67
1	2	521	2.09	-2.10	-1.65	1.64	1.30	312.94	-103.97	303.71	-94.74	-61.34
1	2	522	3.96	-15.50	-9.84	-1.69	8.84	269.64	-350.24	-345.64	265.04	53.18
1	2	523	-0.37	-4.82	-4.47	-0.72	-1.20	972.69	-80.95	967.16	-75.42	-76.13
1	2	524	-0.55	-6.09	-6.09	-0.55	1.89e-02	1147.21	-64.90	1146.43	-64.12	30.86
1	2	525	-0.23	-5.14	-5.10	-0.27	0.44	962.27	-80.56	944.07	-62.36	136.56
1	2	526	8.56	-1.50	3.35	3.71	5.03	457.41	-165.80	314.85	-23.23	261.77
1	2	527	18.39	-22.45	10.36	-14.43	-16.23	-464.44	-1156.97	-1134.56	-486.85	-122.55
1	2	528	2.04	-3.38	-3.20	1.86	-0.96	774.03	-1970.49	-1970.49	774.03	1.04
1	2	529	4.35	-9.60	-2.85	-2.40	-6.97	303.08	-304.20	-304.18	303.06	-3.78
1	2	530	13.78	-22.73	7.70	-16.65	13.60	-464.33	-842.65	-789.44	-517.53	131.52
1	2	531	7.42	-1.53	1.81	4.08	-4.33	493.60	-77.79	434.54	-18.73	-173.95
1	2	532	-9.36e-02	-6.01	-5.98	-0.12	-0.40	891.74	-65.85	889.53	-63.64	-45.97
1	2	533	-0.25	-6.74	-6.73	-0.26	0.23	891.96	-68.92	888.52	-65.49	57.34
1	2	534	5.23	-3.96	-1.97	3.24	3.79	484.06	-98.37	418.91	-33.22	183.57
1	2	535	10.59	-19.82	1.32	-10.55	-14.00	-404.12	-974.39	-936.87	-441.64	-141.39
1	2	536	15.32	-23.59	10.74	-19.01	-12.54	841.14	-1176.40	-1175.55	840.30	-41.27
1	2	537	24.02	15.57	19.33	20.26	-4.20	315.42	-1438.36	-1437.16	314.22	-45.92
1	2	538	4.01	-4.89	3.36	-4.24	-2.31	-68.87	-291.00	-211.37	-148.50	-106.52
1	2	539	0.56	-4.95	-3.35	-1.04	2.50	-167.94	-252.78	-212.94	-207.78	42.34
1	2	540	2.18	-6.10	-5.17	1.25	-2.61	-142.16	-268.99	-245.64	-165.51	-49.15
1	5	1	4.26	-1.83	2.04	0.39	2.93	-489.68	-927.56	-817.52	-599.72	189.94
1	5	3	1.60	-0.39	0.36	0.84	-0.97	-415.12	-878.76	-757.88	-536.00	-203.55
1	5	6	2.87	-13.20	-6.07	-4.27	7.99	-1216.99	-2257.38	-2244.65	-1229.72	-114.39
1	5	9	5.85	-9.01	-3.69	0.53	-7.13	-1108.91	-2234.27	-2229.34	-1113.83	74.26
1	5	11	4.84	-16.02	-8.33	-2.85	10.06	-1014.02	-1722.70	-1718.78	-1017.94	-52.60
1	5	13	8.24	-11.64	-4.38	0.99	-9.57	-911.38	-1752.86	-1752.20	-912.04	23.55
1	5	15	3.01	-1.45	2.53	-0.97	1.37	-1203.41	-1803.83	-1801.98	-1205.26	33.29
1	5	17	3.58	-2.81	3.58	-2.80	-0.20	-1063.57	-1803.45	-1800.45	-1066.58	-47.05
1	5	19	2.65	-2.26	-0.41	0.80	2.38	-368.24	-846.74	-560.88	-654.10	-234.67
1	5	21	1.05	-2.40	-1.09	-0.26	-1.67	-318.17	-779.15	-575.90	-521.41	228.87
1	5	22	5.96	-3.37	1.12	1.48	4.66	391.67	-373.85	-165.04	182.86	-340.95
1	5	23	5.01	1.67	2.64	4.04	1.52	737.87	66.06	459.16	344.76	-331.00
1	5	24	5.55	-4.43	-3.75	4.87	2.53	703.84	81.51	631.35	154.00	-199.65
1	5	25	2.14	1.08	2.05	1.16	-0.29	774.67	375.67	712.57	437.77	-144.65
1	5	26	0.37	-1.76	-1.69	0.30	-0.38	778.92	162.97	746.40	195.50	-137.75
1	5	27	1.15	-0.53	0.31	0.31	-0.84	731.23	455.55	731.21	455.57	2.12
1	5	28	0.36	-0.31	7.44e-02	-2.07e-02	-0.33	813.27	228.14	813.04	228.36	11.42
1	5	29	1.01	-0.66	-0.30	0.65	-0.69	690.48	342.37	596.48	436.37	154.55
1	5	30	4.65e-02	-1.11	-1.04	-2.12e-02	0.27	702.95	146.20	649.32	199.83	164.26
1	5	31	2.10	-0.30	0.66	1.14	-1.18	558.62	76.55	266.42	368.75	235.54
1	5	32	-0.90	-3.77	-3.76	-0.91	0.16	382.79	-90.55	214.95	77.28	226.44
1	5	33	-1.52	-6.25	-6.24	-1.54	0.23	347.09	-538.02	-354.29	163.36	358.98

1	5	34	15.01	-9.38	14.82	-9.19	2.15	-163.56	-442.02	-372.59	-232.99	120.47
1	5	35	10.04	-7.51	9.83	-7.29	1.93	392.01	-908.43	-900.78	384.36	-99.46
1	5	36	5.92	-16.38	-10.97	0.52	-9.56	-507.65	-916.39	-833.94	-590.11	164.03
1	5	37	2.59	-5.01	-3.72	1.30	2.85	331.92	-121.09	123.38	87.45	225.79
1	5	38	5.45	0.35	1.31	4.49	2.00	496.68	-176.89	40.07	279.72	-314.75
1	5	39	2.11	-2.44	0.48	-0.82	-2.18	269.25	-39.91	196.29	33.05	-131.27
1	5	40	2.26	0.77	0.98	2.06	0.52	553.19	277.56	409.98	420.77	-137.71
1	5	41	3.88e-03	-5.02	-4.53	-0.49	-1.50	439.75	61.65	370.88	130.52	-145.93
1	5	42	1.20	-1.11	-0.64	0.72	-0.93	540.50	431.08	526.18	445.40	-36.91
1	5	43	0.80	-1.62	-0.96	0.13	-1.08	595.89	203.86	591.46	208.29	-41.41
1	5	44	0.87	-1.12	-0.62	0.37	-0.87	539.14	363.82	468.53	434.43	85.99
1	5	45	-7.66e-02	-2.04	-1.99	-0.13	-0.31	535.06	173.40	511.90	196.57	88.54
1	5	46	0.72	-0.25	0.39	7.69e-02	-0.46	482.88	87.60	193.56	376.91	175.09
1	5	47	-1.16	-3.13	-2.82	-1.47	-0.72	280.31	-34.28	154.69	91.35	154.07
1	5	48	-2.01	-6.11	-4.69	-3.42	1.95	348.43	-456.81	-342.11	233.73	281.43
1	5	49	16.45	-8.40	16.32	-8.27	1.80	-254.15	-411.34	-405.46	-260.03	29.82
1	5	50	20.77	3.99	20.04	4.72	3.42	460.93	-517.69	-517.12	460.37	-23.49
1	5	51	9.72	0.94	9.35	1.32	1.77	519.54	-588.41	-496.07	427.20	-306.23
1	5	52	5.75	-21.85	-18.63	2.54	8.86	-599.36	-665.56	-610.60	-654.32	-24.85
1	5	53	5.28	3.38	3.38	5.27	-4.62e-02	517.77	8.19	189.77	336.19	-244.04
1	5	54	1.86	-7.83	-7.18	1.21	-2.42	284.54	-49.95	177.15	57.44	-156.17
1	5	55	2.13	-1.23	-0.51	1.41	-1.38	538.64	293.63	411.00	421.27	-122.40
1	5	56	1.38	-1.77	-0.70	0.31	-1.49	509.17	142.38	464.68	186.87	-119.75
1	5	57	0.95	-1.29	-0.67	0.33	-1.00	482.97	432.96	475.99	439.94	17.33
1	5	58	0.27	-1.61	-1.39	5.25e-02	-0.60	537.83	213.00	536.94	213.90	17.04
1	5	59	0.77	-1.39	-0.97	0.35	-0.85	511.96	237.85	332.97	416.84	130.48
1	5	60	-0.15	-2.33	-2.33	-0.15	-9.08e-02	439.93	109.97	368.31	181.59	136.03
1	5	61	0.45	-0.45	-0.25	0.25	-0.37	430.39	-119.44	-29.21	340.16	203.64
1	5	62	-1.88	-2.82	-2.75	-1.95	-0.25	168.73	-216.13	-97.09	49.69	177.88
1	5	63	-2.72	-5.42	-3.76	-4.38	1.32	282.52	-742.32	-652.14	192.34	290.32
1	5	64	19.32	-9.91	19.00	-9.59	3.02	-425.92	-766.37	-766.24	-426.04	6.42
1	5	65	26.34	-0.68	25.38	0.27	4.99	470.48	-765.38	-759.47	464.57	-85.23
1	5	66	11.96	6.27e-02	10.34	1.68	4.07	528.07	-834.01	-685.32	379.38	-424.76
1	5	67	4.14	-14.65	-12.40	1.89	6.10	-619.63	-827.27	-787.29	-659.61	-81.87
1	5	68	4.86	2.73	2.73	4.86	-2.78e-02	549.18	-219.85	14.59	314.75	-354.02
1	5	69	0.60	-7.56	-7.02	5.71e-02	-2.03	289.15	-300.34	-42.34	31.14	-292.45
1	5	70	1.80	-1.23	-0.76	1.32	-1.10	624.87	103.93	324.88	403.93	-257.45
1	5	71	1.10	-1.87	-0.99	0.23	-1.35	558.53	-9.95	372.85	175.73	-266.60
1	5	72	0.61	-1.24	-0.87	0.24	-0.74	584.81	323.13	482.55	425.39	-127.68
1	5	73	0.15	-1.86	-1.71	5.84e-03	-0.53	599.19	162.01	549.43	211.77	-138.85
1	5	74	0.21	-1.15	-1.04	0.10	-0.36	462.45	410.15	460.72	411.88	9.34
1	5	75	-0.11	-2.39	-2.37	-0.14	-0.22	517.06	198.75	516.86	198.95	8.06
1	5	76	0.58	-1.90	-1.34	1.88e-02	1.04	449.58	153.35	249.21	353.72	138.59
1	5	77	3.81e-02	-0.73	-0.63	-6.31e-02	-0.26	328.67	75.65	274.93	129.38	103.48
1	5	78	-0.47	-5.80	-3.98	-2.29	2.53	337.19	-270.36	-156.01	222.85	237.48
1	5	79	10.73	-4.42	10.69	-4.38	-0.79	-101.41	-287.66	-204.53	-184.54	92.58
1	5	80	5.57	0.36	5.31	0.61	1.13	350.78	-232.53	-229.22	347.47	43.81
1	5	81	4.06	1.85	2.55	3.36	-1.03	1000.80	-43.92	111.88	845.00	-372.15
1	5	82	2.72	-1.66	0.69	0.38	-2.18	965.48	186.59	351.14	800.93	-317.95
1	5	83	2.89	-9.84e-02	1.31	1.48	-1.49	907.04	496.03	572.70	830.38	-160.10
1	5	84	1.81	-0.48	0.83	0.50	-1.13	829.39	619.78	619.80	829.38	-1.54
1	5	85	1.32	-0.20	0.63	0.49	-0.76	888.74	458.01	511.24	835.52	141.75
1	5	86	1.69	6.83e-02	0.12	1.64	0.29	947.36	184.53	263.05	868.85	231.79
1	5	87	3.33	-0.33	-0.31	3.31	-0.27	962.85	-86.11	-42.33	919.07	209.78
1	5	88	7.76	2.86	5.67	4.94	-2.42	1035.21	-138.69	-137.21	1033.72	-41.69
1	5	89	1.54	-1.88	-0.97	0.62	1.51	542.05	131.04	463.21	209.89	161.83
1	5	90	2.22	-0.71	-0.16	1.66	-1.15	943.04	1.10	53.08	891.06	-215.08
1	5	91	3.79	1.81e-03	1.26	2.53	-1.78	914.63	304.91	342.93	876.61	-147.43
1	5	92	1.73	-0.31	0.65	0.77	-1.01	852.00	446.02	449.10	848.92	-35.23
1	5	93	1.07	2.97e-02	0.68	0.42	-0.50	860.38	384.17	398.28	846.26	80.77
1	5	94	1.78	-0.13	0.40	1.25	0.86	913.47	171.29	207.86	876.90	160.63
1	5	95	5.44	-6.08e-02	0.41	4.97	1.54	957.10	-32.08	-14.45	939.46	130.88
1	5	96	9.39	-2.92	-1.10	7.57	-4.36	1005.09	-99.16	-94.86	1000.79	-68.75
1	5	97	5.32	-4.48	-0.54	1.38	-4.80	958.44	-98.21	-82.28	942.50	-128.78
1	5	98	2.08	-0.34	0.16	1.58	-0.98	933.64	63.42	101.99	895.06	-179.10
1	5	99	2.14	-0.30	0.67	1.17	-1.20	864.27	325.68	348.40	841.56	-108.24
1	5	100	1.47	-0.45	0.50	0.52	-0.96	831.52	391.96	392.31	831.18	12.27
1	5	101	0.94	1.57e-02	0.63	0.32	-0.43	861.75	250.08	277.67	834.16	126.95
1	5	102	1.85	-0.12	0.47	1.26	0.90	907.04	-15.22	22.83	869.00	183.41
1	5	103	6.28	-0.22	0.66	5.40	2.22	961.76	-243.37	-234.62	953.01	102.32
1	5	104	11.24	-1.83	-0.79	10.20	-3.54	1040.99	-292.82	-283.28	1031.45	-112.38
1	5	105	6.08	-4.61	-0.44	1.91	-5.21	983.00	-316.76	-280.40	946.64	-214.35
1	5	106	2.53	2.28e-03	0.54	1.99	-1.04	960.16	-114.11	-30.77	876.82	-287.38
1	5	107	1.93	-0.22	0.62	1.08	-1.05	892.07	188.14	270.54	809.68	-226.30
1	5	108	1.11	-0.34	0.30	0.47	-0.72	817.58	362.05	390.41	789.22	-110.06
1	5	109	0.45	0.14	0.29	0.29	-0.16	778.60	368.56	368.83	778.33	10.53

1	5	110	1.40	-0.36	0.12	0.92	0.78	808.41	206.25	231.44	783.22	120.55
1	5	111	4.59	-1.35e-02	0.24	4.33	1.06	862.86	20.98	50.21	833.64	154.10
1	5	112	4.28	0.24	0.47	4.05	-0.95	873.43	-34.48	-14.48	853.43	133.27
1	5	113	1.43	-0.18	0.11	1.14	-0.62	1330.31	46.74	127.08	1249.97	-310.91
1	5	114	2.16	-0.39	0.42	1.35	-1.19	1267.02	261.45	324.19	1204.28	-243.21
1	5	115	2.19	-0.50	0.62	1.07	-1.33	1199.05	449.53	474.83	1173.75	-135.36
1	5	116	1.88	-0.22	0.85	0.81	-1.05	1172.83	524.42	524.73	1172.52	-14.16
1	5	117	1.44	0.26	0.86	0.85	-0.59	1205.22	450.64	461.44	1194.42	89.60
1	5	118	1.81	0.63	0.66	1.78	-0.20	1263.58	297.46	316.85	1244.20	135.48
1	5	119	2.75	0.42	0.49	2.68	-0.39	1312.16	156.08	164.37	1303.87	97.54
1	5	120	3.58	0.71	1.06	3.23	-0.94	1323.90	114.14	114.14	1323.90	-0.94
1	5	121	0.35	-1.43	-1.26	0.18	0.52	565.79	234.59	565.05	235.33	15.69
1	5	122	3.49	9.27e-02	0.76	2.82	-1.35	1294.32	188.96	197.73	1285.54	-98.10
1	5	123	2.94	-0.16	0.83	1.95	-1.44	1240.04	323.13	331.73	1231.44	-88.40
1	5	124	2.16	0.16	1.13	1.19	-1.00	1210.16	400.16	400.84	1209.48	-23.47
1	5	125	1.36	0.70	1.06	1.00	-0.33	1217.17	368.43	371.37	1214.22	49.94
1	5	126	2.07	0.75	0.81	2.02	0.26	1258.32	262.85	270.14	1251.03	84.88
1	5	127	3.19	1.87e-02	2.61e-02	3.18	-0.15	1293.75	161.97	164.13	1291.58	49.44
1	5	128	3.64	0.31	0.46	3.48	-0.71	1300.95	136.70	136.96	1300.69	-17.41
1	5	129	3.87	-0.53	3.84e-02	3.30	-1.47	1299.73	139.92	141.63	1298.02	-44.46
1	5	130	3.21	-0.29	0.73	2.19	-1.59	1261.09	203.81	212.29	1252.62	-94.28
1	5	131	2.21	-0.20	0.87	1.15	-1.20	1211.65	310.95	315.93	1206.68	-66.77
1	5	132	1.71	0.16	1.08	0.80	-0.76	1188.97	342.85	342.94	1188.89	8.54
1	5	133	1.11	0.82	1.06	0.86	-0.11	1209.45	259.58	265.77	1203.26	76.46
1	5	134	2.37	0.61	0.83	2.15	0.58	1257.75	117.93	124.89	1250.79	88.80
1	5	135	3.84	-0.16	-0.15	3.83	0.18	1289.16	0.63	1.00	1288.79	21.88
1	5	136	4.33	0.49	0.56	4.25	-0.53	1297.84	-13.46	-10.76	1295.14	-59.37
1	5	137	4.59	-0.66	-0.10	4.04	-1.62	1295.23	-16.59	-7.79	1286.43	-107.05
1	5	138	3.51	-0.30	0.76	2.45	-1.70	1252.69	68.17	95.88	1224.98	-179.04
1	5	139	2.23	-0.13	0.89	1.22	-1.17	1187.19	215.74	244.20	1158.73	-163.81
1	5	140	1.50	0.16	0.88	0.77	-0.67	1128.39	316.23	325.37	1119.25	-85.64
1	5	141	0.86	0.72	0.80	0.79	-6.99e-02	1109.52	311.11	311.11	1109.52	0.73
1	5	142	1.75	0.34	0.54	1.55	0.49	1133.03	216.30	222.15	1127.18	73.03
1	5	143	2.81	-8.53e-02	3.87e-02	2.68	0.59	1164.49	88.53	99.11	1153.92	106.13
1	5	144	3.49	-4.85e-02	-4.24e-02	3.49	0.15	1190.57	28.09	44.82	1173.83	138.48
1	5	145	0.72	-0.22	-5.48e-02	0.55	-0.36	1582.55	88.49	125.90	1545.14	-233.44
1	5	146	1.37	-0.33	8.63e-02	0.96	-0.73	1510.55	265.57	291.38	1484.75	-177.37
1	5	147	1.64	-0.23	0.37	1.04	-0.87	1459.95	401.87	412.03	1449.79	-103.19
1	5	148	1.57	1.83e-02	0.58	1.01	-0.75	1442.03	461.33	461.80	1441.56	-21.62
1	5	149	1.49	0.40	0.68	1.21	-0.48	1463.51	435.80	437.73	1461.59	44.43
1	5	150	1.78	0.51	0.57	1.72	-0.27	1505.36	359.10	363.64	1500.82	71.98
1	5	151	2.42	0.38	0.45	2.36	-0.35	1540.78	285.57	287.64	1538.71	50.92
1	5	152	2.84	0.28	0.45	2.67	-0.64	1550.42	256.73	256.73	1550.42	2.34
1	5	153	-8.94e-02	-1.69	-1.69	-9.20e-02	-6.41e-02	490.54	132.30	415.15	207.69	-146.04
1	5	154	2.93	0.15	0.57	2.51	-0.99	1531.07	286.26	288.05	1529.28	-47.20
1	5	155	2.62	0.19	0.80	2.02	-1.05	1500.27	347.82	349.76	1498.33	-47.23
1	5	156	2.10	0.42	0.98	1.54	-0.79	1478.63	385.26	385.46	1478.42	-14.97
1	5	157	1.70	0.79	0.98	1.50	-0.37	1483.77	372.59	373.10	1483.26	23.80
1	5	158	1.95	0.71	0.72	1.94	-0.11	1507.39	321.58	322.97	1506.00	40.65
1	5	159	2.54	0.33	0.38	2.50	-0.31	1527.69	271.10	271.39	1527.41	18.79
1	5	160	2.77	0.27	0.43	2.62	-0.61	1528.86	258.58	258.65	1528.78	-9.66
1	5	161	2.84	-5.48e-02	0.28	2.51	-0.93	1526.22	256.62	257.02	1525.82	-22.44
1	5	162	2.64	0.12	0.70	2.06	-1.07	1501.83	276.34	278.32	1499.85	-49.23
1	5	163	2.15	0.21	0.91	1.45	-0.93	1471.57	316.92	318.05	1470.44	-36.05
1	5	164	1.67	0.51	1.03	1.15	-0.58	1457.94	324.62	324.63	1457.93	4.39
1	5	165	1.40	0.96	1.00	1.36	-0.12	1471.08	278.48	279.65	1469.90	37.45
1	5	166	2.11	0.64	0.66	2.09	0.16	1496.20	201.71	202.83	1495.08	38.03
1	5	167	2.94	0.26	0.27	2.93	-0.11	1512.29	141.12	141.12	1512.28	-2.20
1	5	168	3.12	0.21	0.29	3.05	-0.47	1508.37	131.71	133.10	1506.99	-43.62
1	5	169	3.24	-7.49e-02	0.16	3.00	-0.85	1503.31	130.14	133.68	1499.77	-69.58
1	5	170	2.89	5.41e-02	0.58	2.36	-1.10	1466.00	167.76	177.16	1456.60	-110.09
1	5	171	2.21	0.17	0.83	1.55	-0.95	1415.24	238.80	249.01	1405.03	-109.12
1	5	172	1.60	0.46	0.94	1.12	-0.56	1372.07	287.46	291.22	1368.31	-63.75
1	5	173	1.19	0.84	0.87	1.16	-9.10e-02	1356.14	277.86	277.93	1356.07	-8.94
1	5	174	1.70	0.53	0.60	1.64	0.27	1366.30	212.38	213.65	1365.04	38.17
1	5	175	2.47	0.29	0.33	2.43	0.29	1388.84	114.27	117.95	1385.16	68.38
1	5	176	2.81	0.11	0.13	2.79	0.22	1407.35	52.93	60.32	1399.96	99.78
1	5	177	0.32	-0.16	-7.30e-02	0.23	-0.19	1746.97	105.11	119.08	1733.01	-150.79
1	5	178	0.91	-0.16	8.94e-03	0.74	-0.39	1683.96	259.27	268.63	1674.60	-115.08
1	5	179	1.21	-2.46e-02	0.20	0.98	-0.48	1643.36	370.77	374.61	1639.52	-69.77
1	5	180	1.33	0.19	0.39	1.13	-0.44	1628.53	426.37	426.78	1628.12	-22.19
1	5	181	1.47	0.37	0.48	1.36	-0.32	1640.12	426.82	427.04	1639.90	16.13
1	5	182	1.79	0.40	0.44	1.75	-0.24	1666.43	391.88	392.72	1665.59	32.73
1	5	183	2.20	0.32	0.37	2.15	-0.30	1690.05	352.89	353.32	1689.61	24.17
1	5	184	2.46	0.27	0.36	2.36	-0.44	1698.61	333.81	333.82	1698.60	2.85
1	5	185	-0.10	-3.17	-0.18	-3.09	0.48	247.94	-173.84	-16.86	90.95	-203.88

1	5	186	2.51	0.28	0.49	2.30	-0.65	1689.34	343.26	343.60	1689.00	-21.40
1	5	187	2.32	0.39	0.69	2.02	-0.70	1671.33	370.11	370.50	1670.94	-22.51
1	5	188	2.04	0.56	0.83	1.76	-0.57	1658.59	387.37	387.43	1658.53	-8.57
1	5	189	1.85	0.69	0.83	1.72	-0.37	1659.65	381.04	381.12	1659.57	9.73
1	5	190	1.97	0.64	0.69	1.92	-0.25	1670.63	355.48	355.72	1670.38	18.05
1	5	191	2.23	0.47	0.54	2.16	-0.35	1679.85	328.74	328.81	1679.78	9.53
1	5	192	2.30	0.42	0.55	2.17	-0.47	1679.21	320.33	320.38	1679.16	-7.92
1	5	193	2.34	0.35	0.54	2.16	-0.57	1677.72	316.81	316.89	1677.64	-10.39
1	5	194	2.21	0.39	0.70	1.89	-0.69	1663.08	319.67	320.06	1662.69	-23.03
1	5	195	1.93	0.51	0.87	1.57	-0.62	1644.67	330.62	330.84	1644.45	-16.83
1	5	196	1.67	0.69	0.94	1.42	-0.43	1635.56	326.25	326.26	1635.56	1.66
1	5	197	1.63	0.81	0.87	1.58	-0.20	1639.85	296.76	296.95	1639.67	15.63
1	5	198	2.02	0.62	0.62	2.02	-7.98e-02	1650.52	252.24	252.37	1650.39	13.48
1	5	199	2.46	0.37	0.40	2.44	-0.22	1654.20	217.92	217.96	1654.16	-8.00
1	5	200	2.56	0.29	0.36	2.50	-0.37	1646.51	211.40	211.95	1645.96	-28.18
1	5	201	2.60	0.26	0.36	2.50	-0.48	1640.65	209.57	210.71	1639.51	-40.30
1	5	202	2.39	0.31	0.54	2.16	-0.66	1609.06	225.35	228.31	1606.11	-63.85
1	5	203	1.99	0.45	0.76	1.68	-0.62	1568.68	257.79	261.04	1565.43	-65.18
1	5	204	1.59	0.66	0.87	1.38	-0.39	1534.66	276.38	277.81	1533.23	-42.42
1	5	205	1.41	0.80	0.82	1.39	-0.10	1518.19	259.88	260.02	1518.05	-13.16
1	5	206	1.74	0.60	0.61	1.73	0.11	1520.21	205.02	205.18	1520.05	14.49
1	5	207	2.25	0.35	0.37	2.24	0.16	1535.30	119.25	120.12	1534.43	35.12
1	5	208	2.57	0.16	0.17	2.55	0.17	1552.38	61.76	64.00	1550.14	57.68
1	5	209	0.14	-8.32e-02	-7.04e-02	0.13	-5.21e-02	1840.09	111.08	114.13	1837.05	-72.51
1	5	210	0.68	-2.82e-02	-1.13e-02	0.66	-0.11	1783.12	253.76	255.93	1780.95	-57.54
1	5	211	1.00	0.12	0.14	0.98	-0.14	1748.06	355.21	356.22	1747.05	-37.52
1	5	212	1.21	0.28	0.30	1.19	-0.15	1734.14	410.27	410.49	1733.92	-17.21
1	5	213	1.45	0.37	0.39	1.43	-0.15	1740.01	422.95	422.95	1740.01	-0.22
1	5	214	1.77	0.37	0.39	1.75	-0.16	1757.51	407.27	407.32	1757.46	7.92
1	5	215	2.09	0.32	0.35	2.07	-0.21	1774.93	384.55	384.57	1774.90	6.39
1	5	216	2.28	0.32	0.36	2.24	-0.26	1782.32	370.42	370.42	1782.32	-0.24
1	5	217	12.70	-4.34	12.69	-4.33	0.41	-282.91	-693.03	-676.84	-299.10	-79.87
1	5	218	2.29	0.40	0.47	2.22	-0.36	1778.11	371.84	371.88	1778.06	-7.93
1	5	219	2.15	0.53	0.64	2.04	-0.40	1767.24	384.36	384.42	1767.18	-9.09
1	5	220	1.98	0.65	0.76	1.87	-0.37	1758.34	392.78	392.79	1758.33	-3.35
1	5	221	1.92	0.68	0.77	1.83	-0.32	1756.95	388.70	388.71	1756.94	3.55
1	5	222	1.99	0.61	0.67	1.93	-0.28	1761.40	372.90	372.94	1761.37	6.95
1	5	223	2.10	0.53	0.59	2.04	-0.30	1765.42	356.27	356.29	1765.41	4.78
1	5	224	2.10	0.51	0.59	2.02	-0.34	1764.23	350.18	350.18	1764.23	0.48
1	5	225	2.09	0.51	0.60	2.00	-0.36	1762.53	345.62	345.62	1762.53	-0.67
1	5	226	1.96	0.59	0.72	1.83	-0.40	1752.29	341.35	341.37	1752.28	-4.59
1	5	227	1.77	0.69	0.85	1.62	-0.38	1740.02	341.08	341.08	1740.01	-3.52
1	5	228	1.68	0.75	0.89	1.54	-0.33	1732.55	332.02	332.02	1732.55	1.03
1	5	229	1.75	0.73	0.80	1.68	-0.26	1732.48	309.37	309.39	1732.46	4.96
1	5	230	2.01	0.58	0.61	1.98	-0.21	1735.33	278.96	278.97	1735.32	3.38
1	5	231	2.27	0.42	0.45	2.24	-0.25	1732.23	256.07	256.09	1732.21	-6.13
1	5	232	2.32	0.38	0.42	2.28	-0.27	1722.85	251.29	251.43	1722.72	-13.91
1	5	233	2.31	0.39	0.43	2.27	-0.26	1716.37	248.40	248.60	1716.17	-17.17
1	5	234	2.13	0.49	0.56	2.06	-0.33	1687.76	254.77	255.43	1687.10	-30.82
1	5	235	1.83	0.63	0.73	1.73	-0.32	1653.12	270.35	271.05	1652.42	-31.08
1	5	236	1.57	0.76	0.82	1.51	-0.22	1623.28	274.45	274.86	1622.87	-23.56
1	5	237	1.53	0.77	0.77	1.52	-8.43e-02	1606.43	253.05	253.19	1606.30	-13.65
1	5	238	1.78	0.59	0.59	1.78	1.44e-02	1605.01	201.04	201.05	1605.00	-3.56
1	5	239	2.18	0.37	0.37	2.18	5.45e-02	1617.03	120.24	120.25	1617.01	4.35
1	5	240	2.43	0.17	0.18	2.43	7.17e-02	1632.29	64.53	64.66	1632.16	14.46
1	5	241	0.23	-8.32e-02	-6.86e-02	0.22	6.64e-02	1867.28	113.24	113.37	1867.14	15.41
1	5	242	0.78	-3.18e-02	-5.73e-03	0.75	0.14	1811.35	253.83	253.83	1811.34	3.79
1	5	243	1.07	0.12	0.16	1.03	0.17	1777.67	352.98	353.01	1777.64	-6.73
1	5	244	1.23	0.31	0.33	1.21	0.13	1764.12	407.48	407.55	1764.05	-10.06
1	5	245	1.44	0.43	0.43	1.44	4.18e-02	1768.89	422.18	422.28	1768.79	-11.20
1	5	246	1.76	0.43	0.43	1.76	-3.82e-02	1784.45	410.33	410.41	1784.37	-10.46
1	5	247	2.09	0.39	0.39	2.09	-5.13e-02	1800.24	391.05	391.09	1800.21	-7.09
1	5	248	2.28	0.39	0.39	2.28	-9.81e-03	1807.26	378.15	378.15	1807.25	-1.98
1	5	249	4.70	-11.59	-7.60	0.71	-7.01	-535.50	-1042.86	-971.43	-606.92	176.46
1	5	250	2.26	0.50	0.50	2.26	2.71e-02	1803.99	378.20	378.21	1803.98	2.06
1	5	251	2.08	0.66	0.66	2.08	5.28e-03	1794.41	388.17	388.18	1794.40	3.17
1	5	252	1.90	0.78	0.78	1.90	-4.42e-02	1785.97	394.96	394.97	1785.96	2.97
1	5	253	1.87	0.77	0.78	1.87	-9.67e-02	1783.65	391.31	391.31	1783.65	1.84
1	5	254	1.98	0.67	0.68	1.97	-0.10	1786.42	377.65	377.65	1786.42	1.03
1	5	255	2.08	0.59	0.60	2.08	-0.10	1789.11	362.85	362.86	1789.10	3.38
1	5	256	2.05	0.60	0.60	2.05	-5.42e-02	1787.63	357.18	357.21	1787.60	6.55
1	5	257	2.03	0.62	0.62	2.03	2.41e-02	1785.99	352.11	352.14	1785.96	6.96
1	5	258	1.85	0.73	0.73	1.85	4.05e-02	1776.44	346.71	346.73	1776.42	4.97
1	5	259	1.64	0.86	0.86	1.64	6.33e-03	1764.93	344.65	344.67	1764.91	5.15
1	5	260	1.57	0.89	0.90	1.56	-8.06e-02	1757.30	335.06	335.07	1757.29	3.01
1	5	261	1.74	0.78	0.81	1.71	-0.15	1755.93	313.83	313.83	1755.93	0.79

1	5	262	2.03	0.61	0.62	2.01	-0.15	1756.94	286.11	286.11	1756.94	0.32
1	5	263	2.25	0.47	0.47	2.25	-0.11	1752.23	265.42	265.43	1752.23	1.80
1	5	264	2.29	0.44	0.44	2.29	-3.59e-02	1742.53	261.03	261.03	1742.52	3.62
1	5	265	2.28	0.45	0.45	2.28	1.02e-02	1735.99	257.89	257.89	1735.98	3.17
1	5	266	2.07	0.58	0.58	2.07	1.91e-02	1707.52	262.83	262.83	1707.52	-0.83
1	5	267	1.75	0.74	0.74	1.75	-1.75e-02	1673.57	275.46	275.47	1673.57	-1.72
1	5	268	1.54	0.83	0.83	1.54	-4.33e-02	1644.11	277.23	277.25	1644.09	-5.58
1	5	269	1.56	0.77	0.77	1.56	-5.93e-02	1627.04	254.63	254.76	1626.91	-13.33
1	5	270	1.81	0.58	0.59	1.80	-6.68e-02	1625.21	202.48	202.81	1624.89	-21.44
1	5	271	2.18	0.36	0.37	2.18	-4.91e-02	1636.82	122.01	122.12	1636.71	-12.85
1	5	272	2.40	0.17	0.17	2.40	-3.13e-02	1652.29	65.61	65.79	1652.10	-17.05
1	5	273	0.56	-0.12	-6.96e-02	0.51	0.18	1829.86	112.20	117.30	1824.77	93.43
1	5	274	1.16	-0.13	2.56e-02	1.01	0.41	1769.99	259.53	262.65	1766.88	68.48
1	5	275	1.40	8.33e-03	0.25	1.15	0.53	1733.26	363.35	364.60	1732.01	41.39
1	5	276	1.41	0.28	0.48	1.21	0.43	1719.23	417.29	417.35	1719.16	9.05
1	5	277	1.44	0.53	0.60	1.38	0.23	1727.25	424.47	424.77	1726.94	-19.96
1	5	278	1.76	0.57	0.57	1.76	5.24e-02	1747.33	402.00	402.51	1746.82	-26.19
1	5	279	2.21	0.48	0.49	2.21	5.04e-02	1766.40	374.46	374.67	1766.18	-17.41
1	5	280	2.48	0.44	0.46	2.47	0.18	1773.87	359.14	359.14	1773.86	-3.42
1	5	281	0.99	-4.26	-3.32	5.25e-02	2.01	331.51	-334.47	-56.69	53.74	328.38
1	5	282	2.49	0.51	0.58	2.42	0.36	1767.89	363.16	363.27	1767.78	12.28
1	5	283	2.21	0.68	0.77	2.12	0.36	1753.95	380.33	380.51	1753.76	15.91
1	5	284	1.90	0.86	0.90	1.86	0.21	1742.74	392.16	392.22	1742.68	9.07
1	5	285	1.84	0.87	0.87	1.84	2.03e-02	1740.69	388.25	388.25	1740.69	-0.95
1	5	286	2.06	0.70	0.70	2.06	-4.19e-02	1745.98	369.87	369.89	1745.96	-4.75
1	5	287	2.29	0.55	0.55	2.28	5.35e-02	1751.17	349.81	349.81	1751.17	-0.19
1	5	288	2.29	0.53	0.55	2.27	0.21	1750.04	342.39	342.46	1749.98	9.51
1	5	289	2.32	0.49	0.57	2.24	0.36	1748.32	337.88	338.02	1748.18	13.81
1	5	290	2.08	0.60	0.74	1.94	0.43	1736.02	335.99	336.08	1735.92	11.47
1	5	291	1.75	0.79	0.92	1.61	0.33	1720.51	340.14	340.30	1720.36	14.52
1	5	292	1.51	0.96	0.98	1.49	0.11	1710.84	333.69	333.71	1710.83	4.51
1	5	293	1.69	0.86	0.87	1.67	-0.11	1711.16	309.06	309.08	1711.14	-5.18
1	5	294	2.12	0.62	0.64	2.10	-0.18	1716.06	273.99	274.01	1716.04	-4.98
1	5	295	2.47	0.43	0.43	2.47	-3.26e-02	1715.02	247.18	247.22	1714.98	7.46
1	5	296	2.54	0.41	0.42	2.53	0.15	1706.38	242.12	242.41	1706.08	20.63
1	5	297	2.55	0.39	0.42	2.52	0.26	1699.82	239.40	239.78	1699.45	23.48
1	5	298	2.27	0.51	0.60	2.18	0.39	1669.24	250.02	250.94	1668.32	36.20
1	5	299	1.83	0.72	0.81	1.73	0.30	1630.71	273.29	274.01	1629.98	31.43
1	5	300	1.49	0.87	0.89	1.47	0.12	1597.80	284.07	284.31	1597.57	17.54
1	5	301	1.50	0.82	0.82	1.50	-5.27e-02	1580.11	264.95	264.96	1580.10	3.67
1	5	302	1.83	0.58	0.61	1.81	-0.17	1580.02	210.88	211.26	1579.64	-22.76
1	5	303	2.25	0.34	0.36	2.24	-0.16	1594.86	125.59	126.89	1593.56	-43.70
1	5	304	2.49	0.16	0.16	2.49	-0.13	1612.57	65.78	68.19	1610.17	-60.97
1	5	305	1.16	-0.14	-4.52e-02	1.07	0.33	1722.55	106.76	125.20	1704.10	171.64
1	5	306	1.80	-0.24	0.13	1.43	0.79	1653.40	270.96	282.15	1642.20	123.92
1	5	307	1.92	-0.14	0.46	1.32	0.94	1609.32	388.42	392.36	1605.37	69.30
1	5	308	1.71	0.14	0.72	1.13	0.76	1593.83	441.38	441.51	1593.70	12.23
1	5	309	1.48	0.60	0.85	1.24	0.40	1609.22	429.50	430.76	1607.96	-38.59
1	5	310	1.74	0.80	0.80	1.73	6.58e-02	1641.48	378.68	381.19	1638.97	-56.23
1	5	311	2.44	0.66	0.66	2.43	2.39e-02	1669.41	328.61	329.81	1668.22	-40.03
1	5	312	2.88	0.59	0.62	2.85	0.26	1678.20	307.32	307.35	1678.18	-6.26
1	5	313	1.23	-1.85	-1.10	0.48	1.32	591.37	-15.13	386.31	189.92	286.91
1	5	314	2.89	0.57	0.74	2.73	0.59	1664.73	323.26	323.88	1664.12	28.70
1	5	315	2.41	0.71	0.96	2.16	0.60	1639.90	361.58	362.46	1639.02	33.56
1	5	316	1.81	0.98	1.10	1.69	0.29	1621.46	387.35	387.55	1621.25	15.86
1	5	317	1.72	1.01	1.03	1.70	-0.11	1621.07	381.29	381.35	1621.00	-8.88
1	5	318	2.26	0.66	0.72	2.20	-0.31	1634.84	347.95	348.31	1634.48	-21.46
1	5	319	2.75	0.40	0.40	2.75	-3.31e-02	1647.29	312.45	312.48	1647.26	-6.76
1	5	320	2.78	0.39	0.42	2.75	0.30	1647.82	301.52	301.65	1647.70	12.96
1	5	321	2.80	0.24	0.38	2.66	0.57	1645.97	298.78	298.97	1645.78	15.89
1	5	322	2.38	0.46	0.74	2.09	0.68	1626.27	305.41	306.01	1625.68	28.10
1	5	323	1.81	0.70	0.99	1.52	0.49	1600.55	329.18	329.81	1599.92	28.37
1	5	324	1.37	1.03	1.09	1.31	0.13	1585.71	331.68	331.70	1585.69	4.86
1	5	325	1.64	0.90	1.00	1.53	-0.26	1590.72	297.02	297.31	1590.42	-19.42
1	5	326	2.37	0.56	0.69	2.23	-0.47	1606.95	240.81	241.13	1606.62	-21.04
1	5	327	3.01	0.33	0.34	3.00	-0.18	1615.69	196.17	196.19	1615.67	5.64
1	5	328	3.08	0.34	0.36	3.07	0.20	1609.77	189.15	189.98	1608.93	34.40
1	5	329	3.13	0.19	0.30	3.03	0.54	1603.78	187.04	188.26	1602.56	41.56
1	5	330	2.67	0.37	0.67	2.37	0.77	1568.22	211.95	215.88	1564.29	72.95
1	5	331	1.97	0.58	0.92	1.63	0.60	1519.84	263.22	267.43	1515.63	72.63
1	5	332	1.43	0.84	0.99	1.29	0.26	1478.59	297.04	298.70	1476.92	44.34
1	5	333	1.35	0.88	0.89	1.34	-7.85e-02	1459.93	285.34	285.34	1459.93	-1.56
1	5	334	1.86	0.54	0.63	1.77	-0.32	1466.25	224.20	226.07	1464.38	-48.14
1	5	335	2.47	0.29	0.34	2.43	-0.31	1488.05	127.98	132.94	1483.08	-82.04
1	5	336	2.72	0.11	0.13	2.70	-0.21	1509.22	61.76	70.28	1500.70	-110.69
1	5	337	2.14	-1.82e-02	0.20	1.92	0.65	1537.00	87.45	134.13	1490.32	255.91

1	5	338	2.76	-0.18	0.61	1.97	1.30	1460.17	281.52	312.79	1428.91	189.41
1	5	339	2.50	-0.23	0.83	1.44	1.33	1401.98	430.00	441.01	1390.97	102.84
1	5	340	1.99	-1.93e-02	0.95	1.01	1.00	1378.20	487.35	487.41	1378.14	7.04
1	5	341	1.54	0.41	0.99	0.96	0.57	1402.92	438.55	444.89	1396.58	-77.93
1	5	342	1.73	0.98	0.99	1.72	8.47e-02	1456.21	331.49	342.05	1445.65	-108.48
1	5	343	2.76	0.92	0.92	2.76	-4.25e-02	1500.04	236.28	240.92	1495.39	-76.49
1	5	344	3.50	1.20	1.28	3.42	0.43	1512.86	207.51	207.53	1512.83	-5.75
1	5	345	0.28	-1.56	-1.39	0.11	0.53	637.02	178.48	590.70	224.81	138.18
1	5	346	3.53	0.72	1.06	3.19	0.92	1486.37	248.66	252.08	1482.95	64.98
1	5	347	2.63	0.64	1.13	2.14	0.86	1439.38	334.02	338.33	1435.08	68.85
1	5	348	1.68	0.93	1.23	1.38	0.37	1407.08	389.77	390.55	1406.30	28.24
1	5	349	1.48	1.00	1.12	1.36	-0.21	1408.58	376.58	377.23	1407.94	-25.75
1	5	350	2.61	0.52	0.79	2.33	-0.71	1441.63	307.56	309.90	1439.29	-51.44
1	5	351	3.63	6.41e-02	8.69e-02	3.61	-0.28	1468.66	237.95	238.61	1468.00	-28.50
1	5	352	3.88	0.57	0.64	3.81	0.48	1475.71	220.06	220.19	1475.58	12.64
1	5	353	3.78	-0.14	0.22	3.42	1.13	1469.58	213.38	213.88	1469.07	25.18
1	5	354	2.73	0.20	0.82	2.11	1.09	1440.40	247.70	251.68	1436.42	68.75
1	5	355	1.81	0.47	0.96	1.33	0.64	1393.39	317.08	320.26	1390.21	58.47
1	5	356	1.29	0.75	0.98	1.06	0.26	1366.42	338.60	338.63	1366.38	6.27
1	5	357	1.41	0.89	1.12	1.18	-0.26	1380.76	283.02	285.07	1378.71	-47.40
1	5	358	2.70	0.50	0.89	2.31	-0.85	1422.54	180.01	182.58	1419.97	-56.45
1	5	359	3.99	-9.15e-03	5.49e-02	3.92	-0.50	1443.24	97.18	97.24	1443.18	-8.89
1	5	360	4.34	0.72	0.75	4.31	0.34	1447.44	88.44	89.89	1445.99	44.35
1	5	361	4.32	-0.21	0.15	3.96	1.23	1438.66	79.77	83.48	1434.95	70.95
1	5	362	3.11	0.16	0.88	2.39	1.27	1398.02	136.04	149.51	1384.56	129.66
1	5	363	1.99	0.42	1.02	1.40	0.76	1332.08	245.37	260.35	1317.11	126.67
1	5	364	1.36	0.65	0.97	1.03	0.35	1275.28	323.44	328.52	1270.21	69.30
1	5	365	1.09	0.85	0.91	1.04	-9.99e-02	1254.62	320.33	320.40	1254.54	-8.27
1	5	366	1.91	0.44	0.67	1.68	-0.54	1274.13	239.01	244.98	1268.17	-78.34
1	5	367	2.87	5.30e-02	0.22	2.71	-0.67	1306.86	120.29	133.31	1293.84	-123.65
1	5	368	3.36	6.08e-02	7.75e-02	3.34	-0.23	1335.83	48.87	68.73	1315.97	-158.65
1	5	369	4.09	1.25	3.10	2.25	1.36	1268.94	44.26	141.98	1171.22	331.84
1	5	370	3.84	0.18	1.79	2.23	1.82	1202.09	264.85	348.85	1118.08	267.72
1	5	371	2.71	0.42	1.43	1.70	1.14	1118.23	480.16	513.58	1084.80	142.16
1	5	372	1.81	-0.11	0.80	0.90	0.96	1064.43	564.83	564.84	1064.41	2.71
1	5	373	1.26	-5.26e-02	0.36	0.84	0.61	1099.18	455.13	480.98	1073.33	-126.41
1	5	374	1.64	8.96e-02	0.19	1.54	0.38	1173.49	238.05	281.75	1129.80	-197.39
1	5	375	3.84	0.69	0.70	3.83	-0.11	1241.25	56.54	80.59	1217.20	-167.07
1	5	376	6.69	2.84	5.93	3.61	1.54	1299.53	33.18	33.25	1299.45	9.83
1	5	377	-8.03e-03	-1.54	-1.54	-1.16e-02	7.40e-02	581.74	211.87	580.23	213.38	-23.56
1	5	378	3.63	0.67	0.93	3.37	0.83	1216.21	108.62	131.62	1193.22	157.91
1	5	379	2.56	0.76	1.03	2.30	0.64	1145.98	294.02	315.72	1124.28	134.21
1	5	380	1.39	0.41	0.59	1.20	0.38	1083.21	416.89	420.47	1079.64	48.66
1	5	381	1.01	0.55	0.59	0.97	-0.12	1084.61	385.40	389.87	1080.15	-55.71
1	5	382	2.26	0.26	0.71	1.82	-0.83	1145.23	234.86	250.04	1130.04	-116.61
1	5	383	6.13	-0.26	0.44	5.43	-1.99	1210.51	104.33	111.88	1202.95	-91.12
1	5	384	8.52	-2.02	-0.68	7.18	3.51	1248.79	48.84	50.92	1246.71	49.94
1	5	385	4.84	-2.72	0.21	1.91	3.68	1209.62	54.09	60.76	1202.95	87.54
1	5	386	1.81	0.42	0.52	1.72	0.35	1162.46	129.71	149.62	1142.55	142.01
1	5	387	1.84	8.24e-02	0.48	1.45	0.74	1085.25	310.84	327.36	1068.73	111.91
1	5	388	1.23	0.17	0.53	0.87	0.50	1042.11	376.59	376.75	1041.95	10.46
1	5	389	0.80	0.60	0.61	0.79	-4.48e-02	1061.75	277.94	288.95	1050.74	-92.23
1	5	390	2.01	0.40	0.80	1.61	-0.69	1121.86	72.18	89.48	1104.56	-133.64
1	5	391	6.52	-0.41	0.68	5.44	-2.52	1185.92	-80.21	-76.03	1181.74	-72.62
1	5	392	9.86	-1.02	-0.23	9.07	2.82	1245.49	-118.69	-113.78	1240.59	81.66
1	5	393	5.61	-2.77	0.19	2.65	4.01	1196.52	-130.83	-112.39	1178.08	155.36
1	5	394	2.13	0.71	0.92	1.92	0.50	1145.15	-14.99	32.36	1097.80	229.55
1	5	395	1.88	0.17	0.65	1.40	0.77	1063.76	215.59	268.73	1010.62	205.54
1	5	396	1.15	0.21	0.56	0.79	0.46	987.01	369.59	386.37	970.24	100.38
1	5	397	0.72	0.51	0.53	0.69	-6.39e-02	957.23	377.46	378.57	956.12	-25.36
1	5	398	1.58	0.25	0.58	1.26	-0.57	993.47	243.94	265.91	971.49	-126.45
1	5	399	4.09	0.15	0.53	3.71	-1.17	1048.57	81.15	114.04	1015.68	-175.32
1	5	400	4.09	1.12	1.13	4.08	0.13	1071.08	12.77	47.74	1036.11	-189.17
1	5	401	6.50	-4.78	4.97	-3.25	-3.86	823.03	-111.59	37.05	674.40	341.79
1	5	402	6.70	1.21	4.31	3.61	-2.72	884.51	150.26	377.81	656.96	339.55
1	5	403	2.58	0.51	0.81	2.28	0.73	826.39	475.19	624.37	677.21	173.60
1	5	404	1.03	-0.25	-1.59e-02	0.80	0.50	677.96	665.47	671.63	671.80	6.25
1	5	405	0.91	-0.88	-0.87	0.90	0.12	770.70	445.29	559.66	656.33	-155.36
1	5	406	2.60	-2.48	-2.40	2.51	-0.66	780.61	122.10	268.76	633.95	-273.99
1	5	407	0.96	-3.82	-1.90	-0.96	2.34	751.67	-328.62	-209.34	632.39	-338.57
1	5	408	11.53	-8.12	11.52	-8.11	-0.49	930.83	-439.15	-437.80	929.49	42.91
1	5	409	0.20	6.04e-02	0.17	9.35e-02	6.04e-02	429.41	82.56	365.53	146.45	-134.45
1	5	410	6.07	-0.15	3.01	2.92	-3.11	777.36	-140.42	-15.04	651.98	315.20
1	5	411	3.29	-1.28	-1.21	3.23	0.53	739.29	266.97	352.09	654.18	181.54
1	5	412	1.32	-1.01	-0.83	1.14	0.63	678.74	468.96	489.63	658.06	62.52
1	5	413	0.74	-0.62	-0.58	0.70	0.23	686.81	417.54	448.33	656.02	-85.69

1	5	414	2.15	-1.47	-0.90	1.58	-1.32	725.29	142.91	219.44	648.76	-196.76
1	5	415	0.89	-0.33	0.81	-0.26	-0.29	761.23	-219.94	-156.95	698.24	-240.49
1	5	416	17.94	3.74	17.93	3.75	-0.37	929.85	-83.64	-83.08	929.29	23.72
1	5	417	7.93	1.31	7.91	1.33	-0.42	896.75	-318.99	-296.47	874.23	163.92
1	5	418	5.25	-0.24	2.85e-02	4.98	1.17	761.17	-25.67	97.79	637.71	286.18
1	5	419	2.16	-1.04	-0.54	1.66	1.16	714.33	301.63	376.72	639.24	159.22
1	5	420	1.00	-0.74	-0.38	0.64	0.70	640.38	451.25	452.41	639.22	14.79
1	5	421	0.54	-0.46	-0.44	0.51	0.17	677.50	287.22	339.08	625.64	-132.48
1	5	422	2.25	-1.89	-1.32	1.68	-1.43	685.66	-55.73	27.68	602.25	-234.27
1	5	423	1.87	-1.55	1.86	-1.54	-0.19	718.02	-463.46	-415.94	670.49	-232.15
1	5	424	21.85	2.90	21.73	3.02	-1.51	912.38	-287.06	-282.73	908.05	71.99
1	5	425	10.08	0.68	9.82	0.94	-1.54	865.81	-542.62	-486.58	809.78	275.28
1	5	426	5.53	-0.24	0.14	5.15	1.43	775.20	-210.00	-28.39	593.60	382.02
1	5	427	1.94	-0.89	-0.43	1.48	1.05	760.70	151.95	313.70	598.95	268.89
1	5	428	0.82	-0.63	-0.32	0.51	0.60	677.82	399.13	475.74	601.21	124.42
1	5	429	0.41	-0.33	-0.33	0.41	3.10e-02	595.71	464.08	471.87	587.92	-31.06
1	5	430	1.74	-1.78	-1.23	1.19	-1.28	643.65	209.72	296.75	556.62	-173.76
1	5	431	-0.21	-1.14	-0.34	-1.01	-0.33	634.58	-91.62	6.76	536.20	-248.53
1	5	432	5.50	0.70	5.40	0.80	0.69	711.12	-51.71	-18.53	677.94	-155.61
1	5	433	4.82	-6.26	-4.53	3.08	-4.02	640.26	11.95	508.70	143.51	255.64
1	5	434	1.13	-2.34	-2.14	0.94	0.80	774.59	183.32	719.51	238.39	171.84
1	5	435	0.25	-0.99	-0.99	0.25	3.09e-02	809.36	261.10	809.33	261.12	3.83
1	5	436	0.53	-1.87	-1.55	0.21	-0.82	722.18	178.50	665.92	234.76	-165.59
1	5	437	-1.10	-2.99	-1.93	-2.16	-0.94	457.63	-82.71	251.24	123.68	-262.53
1	5	438	10.01	-5.40	9.95	-5.33	0.98	1.77	-458.97	-323.88	-133.32	-209.74
1	5	439	5.28	-1.44	4.50	-0.67	2.14	10.36	-265.49	-114.02	-141.11	-137.26
1	5	440	1.10	-1.41	1.10	-1.41	1.08e-02	272.73	-135.27	85.41	52.05	203.32
1	5	441	-0.44	-4.71	-3.65	-1.50	1.84	467.61	49.00	356.83	159.79	184.67
1	5	442	0.89	-2.20	-1.71	0.40	1.13	605.61	223.28	594.42	234.47	64.43
1	5	443	7.93e-02	-2.00	-1.97	4.61e-02	0.26	565.79	202.11	539.20	228.70	-94.67
1	5	444	-0.68	-2.44	-0.90	-2.22	0.57	360.91	-10.61	207.15	143.15	-182.99
1	5	445	10.63	-4.11	10.51	-3.98	1.35	-91.31	-389.31	-336.41	-144.21	-113.87
1	5	447	3.86	-10.93	-10.92	3.85	-0.11	380.93	-44.79	380.02	-43.88	19.66
1	5	448	0.32	-7.41	-6.65	-0.44	2.31	267.29	-92.64	266.20	-91.56	19.76
1	5	449	18.39	5.00	13.77	9.63	6.36	211.23	130.99	131.05	211.18	2.17
1	5	450	2.07	-2.77	-2.75	2.05	-0.28	823.73	-96.35	-96.30	823.67	7.21
1	5	451	3.67	-0.15	-0.11	3.63	-0.37	1174.01	-43.19	-43.09	1173.91	11.07
1	5	452	3.45	7.21e-02	7.45e-02	3.45	-9.05e-02	1405.91	-36.31	-36.22	1405.82	11.47
1	5	453	3.06	0.14	0.14	3.06	-3.23e-02	1558.39	-30.00	-29.99	1558.38	4.03
1	5	454	2.80	0.12	0.12	2.80	-9.91e-03	1641.12	-26.94	-26.92	1641.10	-5.72
1	5	455	2.73	0.12	0.12	2.73	9.89e-03	1661.72	-25.81	-25.78	1661.69	-6.82
1	5	456	2.84	0.12	0.12	2.84	3.26e-02	1620.73	-26.68	-26.49	1620.54	-17.77
1	5	457	3.10	6.32e-02	6.55e-02	3.10	8.43e-02	1512.66	-29.89	-29.20	1511.97	-32.66
1	5	458	3.25	-0.22	-0.20	3.22	0.31	1325.11	-36.96	-35.45	1323.60	-45.35
1	5	459	2.42	-2.64	-2.61	2.39	0.38	1041.19	-74.75	-72.65	1039.09	-48.36
1	5	460	16.98	5.54	13.53	8.99	-5.25	528.89	86.75	99.73	515.91	-74.63
1	5	461	11.24	-3.19	8.06	-1.63e-02	5.98	55.47	-305.71	-3.29	-246.94	-133.31
1	5	462	5.09	-5.32	3.57	-3.80	-3.67	47.39	-170.12	39.94	-162.67	39.55
1	5	463	1.10	-4.58	-4.19	0.71	1.43	90.60	-142.40	-15.04	-36.76	-115.99
1	5	464	1.27	-0.91	-0.91	1.27	4.64e-02	817.07	-53.30	-6.84	770.62	-195.64
1	5	465	2.93e-02	-0.52	-0.51	2.43e-02	5.18e-02	1306.27	-27.95	-1.69	1280.01	-185.34
1	5	466	-0.12	-0.39	-0.13	-0.38	6.27e-02	1594.15	-8.69	3.21	1582.25	-137.59
1	5	467	-0.13	-0.63	-0.13	-0.63	5.48e-02	1773.64	-2.36	2.38	1768.90	-91.70
1	5	468	-0.12	-0.69	-0.12	-0.69	3.56e-02	1873.27	1.03	2.29	1872.02	-48.43
1	5	469	-0.11	-0.59	-0.11	-0.59	1.17e-02	1901.96	2.26	2.27	1901.95	3.26
1	5	470	-0.13	-0.37	-0.13	-0.37	-1.66e-02	1862.01	1.24	2.41	1860.84	46.69
1	5	471	-1.80e-02	-0.17	-0.15	-3.74e-02	-5.09e-02	1747.31	-1.49	3.10	1742.72	89.51
1	5	472	0.45	-0.47	-0.47	0.45	-2.35e-02	1540.66	-12.28	0.38	1528.00	139.66
1	5	473	3.40	-0.97	-0.86	3.29	0.68	1173.68	-45.71	-20.44	1148.41	173.73
1	5	474	9.17	3.66	6.07	6.75	2.73	553.85	28.56	99.28	483.13	179.30
1	5	475	6.14	-7.02	-0.49	-0.40	6.58	179.70	-236.33	-235.97	179.34	-12.21
1	5	476	18.18	-5.62	16.95	-4.39	5.27	504.78	-1041.99	-1041.55	504.34	-26.18
1	5	477	13.60	-9.36	9.56	-5.32	8.74	403.33	-840.20	-840.19	403.32	3.48
1	5	478	5.17	-4.36	-3.57	4.39	2.62	406.13	-1184.30	-1183.00	404.83	-45.48
1	5	479	4.10	-8.68	-6.31	1.74	-4.96	100.11	-230.17	-218.34	88.28	-61.37
1	5	480	22.99	9.60	21.53	11.06	4.18	117.47	-922.04	-921.54	116.97	22.78
1	5	481	7.89	-1.03	6.37	0.49	3.36	55.43	-135.95	-27.71	-52.81	94.87
1	5	482	-0.31	-1.68	-1.36	-0.63	0.59	515.52	-45.18	505.00	-34.65	76.11
1	5	483	-0.32	-3.08	-3.08	-0.32	8.67e-02	616.78	-34.09	616.73	-34.04	5.33
1	5	484	-0.38	-3.19	-3.19	-0.38	-8.64e-02	464.57	-49.27	454.16	-38.85	-72.41
1	5	485	1.66	-3.99	-3.75	1.42	-1.14	98.20	-168.43	-46.74	-23.50	-132.81
1	5	486	5.02	-23.06	-3.35	-14.68	12.85	-281.47	-1117.14	-1073.38	-325.22	186.14
1	5	487	21.17	7.43	21.05	7.56	-1.29	-2.48	-1271.35	-1270.92	-2.91	-23.28
1	5	488	7.33	-1.23	5.15	0.96	3.73	62.98	-280.56	-171.04	-46.54	160.10
1	5	489	-0.44	-1.94	-1.72	-0.66	0.53	459.18	-73.69	424.85	-39.35	130.84
1	5	490	-0.30	-3.32	-3.32	-0.30	7.76e-02	652.58	-45.62	646.89	-39.92	62.81

1	5	491	-0.48	-3.78	-3.78	-0.48	9.31e-02	632.37	-45.05	632.36	-45.04	-2.61
1	5	492	-1.92	-5.30	-5.29	-1.92	0.12	358.12	-69.32	352.17	-63.37	-50.07
1	5	493	3.04	2.83	2.99	2.87	8.22e-02	308.84	-62.82	277.97	-31.95	102.57
1	5	494	2.06	-1.87	-0.55	0.74	1.85	797.26	-29.66	782.66	-15.06	108.89
1	5	495	-0.49	-3.16	-3.16	-0.49	5.66e-02	880.11	-22.96	879.75	-22.59	18.18
1	5	496	-0.24	-2.16	-2.07	-0.33	-0.42	731.00	-32.29	725.08	-26.36	-66.98
1	5	497	4.11	-0.81	1.01	2.29	-2.37	337.09	-80.81	265.39	-9.11	-157.55
1	5	498	6.83	-20.04	0.54	-13.76	11.37	-264.48	-693.55	-668.27	-289.76	101.04
1	5	499	0.47	-5.97	-3.66	-1.83	3.09	-25.37	-197.74	-194.39	-28.72	23.80
1	5	500	9.91	-11.05	7.32	-8.46	-6.90	-265.50	-359.94	-345.83	-279.60	-33.66
1	5	501	7.29	-5.36e-02	3.25	3.98	3.65	472.64	-20.14	432.63	19.86	134.59
1	5	502	-9.53e-02	-2.88	-2.77	-0.20	0.54	647.92	-27.62	646.51	-26.21	30.81
1	5	503	-0.44	-3.92	-3.92	-0.44	-1.16e-03	592.78	-36.80	588.72	-32.74	-50.39
1	5	504	1.60	-4.58	-4.38	1.40	-1.10	250.02	-77.04	194.76	-21.78	-122.56
1	5	505	1.88	-20.91	-5.62	-13.41	10.71	-254.58	-723.06	-689.22	-288.42	121.27
1	5	506	2.66	0.28	2.58	0.36	-0.42	-142.59	-167.56	-150.56	-159.59	-11.64
1	5	507	-2.90	-12.41	-8.99	-6.32	4.57	4.58	-204.25	-102.53	-97.15	104.38
1	5	508	-0.34	-3.52	-3.52	-0.34	-8.95e-02	578.35	-51.64	577.36	-50.65	24.94
1	5	509	-0.80	-2.35	-2.27	-0.88	-0.34	502.06	-45.96	500.43	-44.33	-29.87
1	5	510	-1.03e-02	-3.75	-3.75	-1.04e-02	-1.97e-02	399.95	-63.03	391.92	-54.99	60.47
1	5	511	0.97	-3.98	-3.84	0.83	0.81	27.54	-200.28	-121.68	-51.06	108.30
1	5	512	4.43	-24.28	-5.62	-14.24	-13.69	-286.99	-1138.78	-1083.70	-342.07	-209.48
1	5	513	21.75	-12.85	19.59	-10.69	-8.37	630.79	-988.68	-986.19	628.30	63.42
1	5	514	25.66	13.55	25.61	13.60	-0.78	38.62	-1241.52	-1240.76	37.85	31.33
1	5	515	7.71	-1.10	5.79	0.81	-3.64	41.04	-244.23	-137.95	-65.25	-137.93
1	5	516	-0.71	-2.85	-2.78	-0.78	-0.38	432.86	-70.78	409.41	-47.33	-106.12
1	5	517	-0.32	-3.92	-3.92	-0.32	-7.39e-02	600.40	-56.12	594.53	-50.26	-61.77
1	5	518	-0.18	-4.22	-4.22	-0.18	-8.48e-02	559.22	-55.65	558.98	-55.40	-12.22
1	5	519	-2.06	-6.41	-6.37	-2.10	-0.42	267.58	-87.79	265.43	-85.64	27.58
1	5	520	-1.24	-10.62	-7.95	-3.91	-4.23	-27.70	-251.39	-233.51	-45.58	-60.66
1	5	521	10.38	4.98	5.86	9.51	-1.99	400.93	-49.89	378.63	-27.59	-97.76
1	5	522	-1.46	-8.35	-5.75	-4.06	3.34	241.89	-174.85	-148.68	215.72	101.10
1	5	523	1.58	-1.82	-5.02e-02	-0.19	-1.70	843.25	-43.51	836.06	-36.32	-79.54
1	5	524	-0.39	-2.34	-2.34	-0.39	-2.96e-02	865.30	-43.94	865.30	-43.94	-1.05
1	5	525	-6.55e-02	-1.92	-1.92	-6.55e-02	-1.56e-03	694.81	-51.91	690.12	-47.22	58.97
1	5	526	2.63	-0.97	0.45	1.21	1.76	268.14	-91.44	221.23	-44.53	121.12
1	5	527	6.79	-18.03	-0.36	-10.88	-11.24	-253.56	-717.02	-670.56	-300.02	-139.19
1	5	528	1.16	-6.27	-2.45	-2.66	-3.71	551.64	-1084.36	-1080.46	547.73	79.81
1	5	529	5.80	-8.62	-0.96	-1.86	-7.19	233.50	-239.54	-238.11	232.07	25.96
1	5	530	12.52	-2.35	10.74	-0.58	4.82	-217.13	-295.35	-255.41	-257.07	39.10
1	5	531	5.76	-1.11	2.35	2.30	-3.43	494.47	-18.13	476.43	-8.86e-02	-94.46
1	5	532	-0.12	-3.25	-3.22	-0.14	-0.27	627.52	-45.84	627.48	-45.80	-4.99
1	5	533	-3.84e-02	-3.84	-3.84	-4.14e-02	-0.11	546.04	-56.03	543.00	-52.99	42.67
1	5	534	0.88	-4.16	-4.03	0.76	0.79	185.26	-93.59	146.14	-54.47	96.84
1	5	535	1.83	-20.67	-7.44	-11.39	-11.07	-258.70	-716.90	-669.02	-306.59	-140.17
1	5	536	18.08	-18.37	12.98	-13.27	-12.64	594.20	-753.71	-752.89	593.37	33.38
1	5	537	32.48	13.33	27.89	17.92	-8.18	222.20	-851.85	-851.40	221.75	-21.92
1	5	538	8.17	-1.11	6.79	0.27	-3.31	46.08	-115.78	23.74	-93.45	-55.83
1	5	539	5.87	3.61	5.54	3.93	-0.79	-137.59	-212.41	-197.17	-152.83	-30.14
1	5	540	0.12	-9.93	-9.17	-0.64	-2.66	-25.63	-202.56	-108.05	-120.14	-88.26
1	34	1	2.09	-3.70	0.60	-2.21	-2.53	-308.08	-886.34	-736.24	-458.18	253.51
1	34	3	3.72	-2.36	-0.38	1.75	-2.85	-494.18	-855.94	-690.94	-659.18	-180.18
1	34	6	2.07	-13.61	-2.37	-9.17	7.07	-1060.35	-2305.74	-2293.16	-1072.94	-124.55
1	34	9	4.75	-6.87	-3.24	1.12	-5.38	-1222.05	-2120.60	-2118.92	-1223.73	38.78
1	34	11	4.96	-15.51	-3.75	-6.80	10.12	-873.88	-1877.11	-1869.43	-881.57	-87.45
1	34	13	6.71	-8.99	-3.49	1.21	-7.49	-1030.72	-1714.86	-1713.89	-1031.69	-25.69
1	34	15	2.55	-4.41	2.39	-4.25	-1.04	-1071.73	-1875.64	-1870.45	-1076.92	64.40
1	34	17	3.22	-0.96	3.20	-0.93	-0.32	-1162.39	-1813.48	-1810.32	-1165.54	-45.22
1	34	19	1.40	-2.03	0.26	-0.89	1.62	-340.61	-799.17	-621.96	-517.82	-223.29
1	34	21	0.75	-0.68	-0.60	0.67	0.33	-399.69	-802.92	-600.33	-602.27	201.61
1	34	22	5.60	-5.78	5.01	-5.19	2.52	585.95	-251.33	-154.69	489.31	-267.54
1	34	23	5.20	1.06	1.87	4.39	1.64	726.53	56.93	324.94	458.51	-328.07
1	34	24	3.67	-4.21	0.27	-0.81	3.90	539.25	-6.77	399.83	132.65	-238.09
1	34	25	1.03	-0.21	0.16	0.67	-0.57	726.74	396.32	604.00	519.06	-159.65
1	34	26	0.75	-2.45	-2.37	0.68	-0.49	710.21	193.85	659.37	244.69	-153.84
1	34	27	0.51	-0.54	-0.50	0.48	-0.20	679.21	536.23	679.02	536.42	-5.24
1	34	28	8.25e-02	-1.58	-1.58	8.24e-02	-1.63e-02	766.31	270.91	766.31	270.91	0.73
1	34	29	1.11	-1.06	-1.05	1.11	0.11	753.37	347.16	572.16	528.37	201.92
1	34	30	0.59	-2.30	-1.97	0.26	0.92	735.49	156.62	641.52	250.60	213.47
1	34	31	1.93	-1.13	-1.12	1.93	-0.15	711.45	48.46	271.01	488.90	313.08
1	34	32	0.70	-5.52	-4.92	0.10	1.83	514.98	-126.80	231.61	156.57	318.69
1	34	33	6.42	-2.54	-1.29	5.17	-3.10	605.40	-487.91	-266.67	384.17	439.24
1	34	34	9.28	-8.79	9.23	-8.74	-0.93	53.41	-469.84	-283.39	-133.04	250.59
1	34	35	12.33	-18.66	12.31	-18.64	-0.82	720.01	-851.77	-851.76	720.00	4.10
1	34	36	4.59	-7.24	-4.73	2.08	-4.84	-727.10	-924.72	-913.09	-738.73	-46.51
1	34	37	0.76	-2.75	-2.18	0.19	1.30	132.52	-103.32	61.66	-32.46	108.13

1	34	38	6.73	-1.46	-0.58	5.85	2.54	569.05	-275.72	-98.74	392.07	-343.78
1	34	39	4.98	-6.70	4.91	-6.63	-0.89	158.30	-202.55	-43.79	-0.46	-179.12
1	34	40	1.80	-1.22	-1.22	1.80	0.10	633.65	218.35	332.23	519.77	-185.27
1	34	41	1.00	-5.90	-5.14	0.24	-2.16	459.75	44.05	315.88	187.93	-197.76
1	34	42	1.16	-1.32	-1.23	1.07	-0.48	564.40	502.94	517.27	550.07	-25.99
1	34	43	0.74	-2.55	-2.15	0.34	-1.08	594.16	260.74	591.51	263.40	-29.63
1	34	44	0.91	-0.88	-0.85	0.88	-0.22	664.15	391.74	495.55	560.34	132.30
1	34	45	0.15	-2.41	-2.41	0.15	6.57e-02	615.63	210.54	560.21	265.96	139.20
1	34	46	0.88	-0.45	-0.20	0.64	0.51	691.51	113.20	261.14	543.56	252.33
1	34	47	-0.52	-3.46	-3.33	-0.65	0.60	468.60	-40.81	229.03	198.76	254.25
1	34	48	6.53	3.16	4.24	5.45	-1.57	691.40	-316.03	-160.35	535.72	364.14
1	34	49	11.21	-7.68	10.86	-7.33	-2.56	33.98	-383.96	-237.19	-112.79	199.50
1	34	50	30.17	-8.19	30.05	-8.06	2.21	1012.71	-244.57	-236.68	1004.82	99.30
1	34	51	9.98	0.39	8.66	1.71	3.30	877.79	-524.63	-470.99	824.15	-268.98
1	34	52	11.65	-14.41	-4.24	1.49	12.71	-496.89	-1132.07	-1029.15	-599.81	-234.05
1	34	53	4.98	-3.13	-2.84	4.70	-1.50	610.87	-102.89	61.44	446.53	-300.48
1	34	54	3.94	-6.41	-4.05	1.58	-4.34	340.62	-183.01	31.64	125.98	-257.53
1	34	55	2.35	-1.96	-1.42	1.81	-1.43	672.93	292.39	416.40	548.92	-178.36
1	34	56	1.84	-2.60	-1.44	0.68	-1.95	565.93	153.56	468.91	250.58	-174.91
1	34	57	0.87	-1.21	-0.92	0.58	-0.72	567.19	523.09	529.02	561.25	15.05
1	34	58	0.39	-1.78	-1.60	0.20	-0.61	615.03	280.48	614.35	281.16	15.07
1	34	59	1.05	-0.87	-0.84	1.02	-0.21	683.12	305.00	427.78	560.34	177.06
1	34	60	0.27	-2.25	-2.18	0.20	0.40	592.07	155.05	486.09	261.03	187.30
1	34	61	1.24	-1.02	-0.92	1.15	0.45	666.84	-43.59	100.63	522.62	285.76
1	34	62	-0.37	-3.91	-3.36	-0.91	1.28	398.04	-190.15	41.67	166.22	287.43
1	34	63	8.08	2.14	5.28	4.94	-2.96	663.18	-550.43	-417.56	530.32	378.94
1	34	64	13.04	-8.29	12.86	-8.11	-1.94	-159.87	-631.87	-534.18	-257.56	191.22
1	34	65	34.39	-15.70	34.20	-15.51	3.11	1033.07	-467.30	-466.32	1032.08	38.44
1	34	66	12.96	-0.27	9.90	2.78	5.57	848.36	-732.06	-629.26	745.56	-389.75
1	34	67	9.97	-9.68	0.68	-0.40	9.81	-483.40	-1191.90	-1073.89	-601.41	-263.97
1	34	68	4.62	-2.75	-2.46	4.33	-1.43	676.74	-248.98	-23.75	451.51	-397.21
1	34	69	2.70	-6.15	-3.99	0.54	-3.80	395.94	-368.12	-84.94	112.76	-369.02
1	34	70	2.10	-1.72	-1.31	1.69	-1.18	764.35	182.64	401.95	545.04	-281.92
1	34	71	1.55	-2.65	-1.64	0.54	-1.80	661.28	39.12	453.33	247.07	-293.49
1	34	72	0.56	-1.09	-0.86	0.33	-0.58	684.73	476.72	602.85	558.60	-101.63
1	34	73	0.26	-1.89	-1.70	6.22e-02	-0.62	725.82	255.79	696.32	285.30	-114.00
1	34	74	0.50	-0.55	-0.54	0.49	9.15e-02	671.40	504.93	613.50	562.83	79.28
1	34	75	4.62e-02	-2.05	-2.04	4.46e-02	5.68e-02	710.27	267.91	696.01	282.17	78.13
1	34	76	1.53	-1.79	-0.98	0.71	1.43	736.01	217.92	423.93	530.01	253.56
1	34	77	0.94	-1.75	-1.54	0.73	0.73	623.06	86.69	470.20	239.55	242.13
1	34	78	7.28	3.17	4.41	6.04	-1.88	768.86	-113.63	104.06	551.17	380.42
1	34	79	8.04	-5.57	4.78	-2.30	-5.81	297.93	-278.38	46.69	-27.13	285.78
1	34	80	10.18	-8.62	9.56	-8.00	-3.37	800.81	-120.64	-69.21	749.38	211.53
1	34	81	3.37	1.38	2.71	2.05	-0.94	1106.95	-3.77	82.68	1020.50	-297.57
1	34	82	4.13	0.88	1.74	3.27	-1.43	1073.23	211.86	303.64	981.44	-265.78
1	34	83	2.73	0.10	1.25	1.58	-1.30	986.80	453.75	497.19	943.36	-145.84
1	34	84	1.34	0.12	0.83	0.63	-0.60	933.78	557.58	557.86	933.50	10.26
1	34	85	0.92	0.55	0.56	0.91	-6.02e-02	1004.08	420.58	476.08	948.59	171.18
1	34	86	3.06	7.43e-02	0.28	2.85	0.76	1091.93	175.10	260.66	1006.37	266.69
1	34	87	5.53	0.38	0.46	5.45	-0.64	1170.09	-75.74	-20.73	1115.08	255.95
1	34	88	6.21	1.01	5.76	1.46	-1.47	1225.75	-135.22	-134.32	1224.85	35.01
1	34	89	0.55	-0.99	-0.64	0.19	0.65	447.44	82.75	402.40	127.79	119.99
1	34	90	4.81	0.57	0.65	4.74	0.55	1131.76	-4.67	28.39	1098.70	-190.99
1	34	91	3.36	0.10	0.64	2.82	-1.21	1051.39	257.23	290.41	1018.21	-158.89
1	34	92	1.24	0.50	0.68	1.05	-0.32	987.81	425.24	426.43	986.62	-25.86
1	34	93	1.42	0.58	1.08	0.92	0.41	1017.97	400.07	416.91	1001.13	100.61
1	34	94	3.94	0.24	1.45	2.73	1.74	1105.30	233.13	271.78	1066.65	179.49
1	34	95	7.87	8.59e-02	0.69	7.27	2.08	1217.53	49.64	72.40	1194.76	161.45
1	34	96	8.28	-3.14	-2.16	7.30	-3.20	1265.30	-33.35	-33.13	1265.08	-16.98
1	34	97	4.55	-2.24	-7.61e-04	2.31	-3.19	1220.04	-35.85	-32.21	1216.40	-67.53
1	34	98	2.23	0.44	0.45	2.22	-9.34e-02	1123.36	85.15	112.41	1096.10	-166.01
1	34	99	1.69	-0.27	-1.70e-02	1.44	-0.66	1032.58	318.67	343.26	1008.00	-130.18
1	34	100	1.05	9.43e-02	0.25	0.89	-0.36	990.22	425.85	426.06	990.00	11.04
1	34	101	1.15	0.35	0.53	0.96	0.34	1037.89	320.06	347.92	1010.03	138.65
1	34	102	3.87	0.41	1.36	2.92	1.54	1127.12	98.58	141.31	1084.39	205.24
1	34	103	8.28	0.31	1.16	7.43	2.46	1248.61	-101.49	-86.17	1233.29	143.02
1	34	104	10.08	-2.00	-1.50	9.59	-2.39	1321.51	-155.61	-153.87	1319.78	-50.63
1	34	105	5.88	-2.02	0.38	3.48	-3.63	1261.66	-179.95	-165.07	1246.77	-145.71
1	34	106	2.67	0.76	0.85	2.59	-0.40	1158.40	-23.15	39.08	1096.18	-263.90
1	34	107	1.60	-9.33e-02	0.23	1.27	-0.67	1058.05	265.65	328.59	995.10	-214.29
1	34	108	0.82	0.31	0.48	0.65	-0.24	980.26	468.49	483.84	964.90	-87.32
1	34	109	1.22	0.22	0.79	0.65	0.49	975.09	482.80	490.84	967.04	62.42
1	34	110	3.06	0.28	1.23	2.11	1.32	1057.43	315.34	370.63	1002.14	194.87
1	34	111	6.04	0.93	1.18	5.79	1.11	1173.87	103.95	174.13	1103.69	264.88
1	34	112	2.64	1.09	1.12	2.61	-0.19	1177.99	-0.37	65.08	1112.54	269.90
1	34	113	2.84	7.67e-02	0.25	2.67	-0.67	1417.92	61.61	107.64	1371.89	-245.59

1	34	114	2.97	3.69e-02	0.67	2.34	-1.20	1350.25	249.52	280.71	1319.06	-182.65
1	34	115	2.50	2.73e-02	0.96	1.56	-1.20	1294.40	408.60	418.13	1284.87	-91.39
1	34	116	1.77	0.36	1.12	1.01	-0.70	1276.05	469.70	470.03	1275.71	16.44
1	34	117	1.28	1.07	1.12	1.23	-9.07e-02	1314.69	411.63	424.79	1301.53	108.21
1	34	118	2.50	0.88	0.93	2.45	0.30	1383.74	282.44	303.51	1362.67	150.87
1	34	119	3.40	0.87	0.87	3.40	2.13e-02	1442.55	152.02	164.75	1429.81	127.55
1	34	120	3.40	1.31	1.38	3.33	-0.37	1465.61	108.20	109.43	1464.39	40.75
1	34	121	1.98e-02	-0.99	-0.96	-1.06e-02	0.17	521.34	160.44	518.20	163.57	33.49
1	34	122	3.39	0.97	1.10	3.27	-0.54	1435.86	174.28	177.09	1433.05	-59.53
1	34	123	2.70	0.89	1.19	2.40	-0.67	1385.01	301.65	305.70	1380.96	-66.10
1	34	124	1.63	1.26	1.44	1.45	-0.18	1352.78	385.20	385.36	1352.62	-12.47
1	34	125	2.13	0.85	1.44	1.55	0.64	1368.06	382.33	385.07	1365.31	51.97
1	34	126	3.60	0.31	0.90	3.01	1.26	1420.96	307.66	313.19	1415.42	78.30
1	34	127	4.88	-3.73e-02	2.20e-02	4.82	0.54	1464.60	218.66	221.88	1461.37	63.27
1	34	128	4.94	0.47	0.57	4.84	-0.66	1482.47	197.77	198.09	1482.16	20.20
1	34	129	4.45	-0.29	0.25	3.90	-1.51	1473.12	186.51	186.51	1473.12	-2.94
1	34	130	2.76	0.16	0.82	2.10	-1.13	1444.67	230.42	233.61	1441.48	-62.18
1	34	131	1.72	0.70	1.06	1.37	-0.49	1385.21	329.86	332.70	1382.36	-54.71
1	34	132	1.13	1.09	1.09	1.13	9.44e-03	1356.67	375.58	375.70	1356.54	11.06
1	34	133	2.14	0.70	1.33	1.52	0.71	1384.25	326.97	332.57	1378.65	76.73
1	34	134	3.84	0.25	0.91	3.18	1.39	1446.26	213.20	220.78	1438.67	96.42
1	34	135	5.42	-0.37	-0.27	5.32	0.77	1485.56	109.62	111.01	1484.17	43.78
1	34	136	5.81	0.73	0.78	5.76	-0.49	1501.05	106.63	106.90	1500.78	-19.50
1	34	137	5.18	-0.49	6.81e-02	4.62	-1.69	1489.16	89.38	91.89	1486.65	-59.23
1	34	138	3.29	7.70e-02	0.87	2.50	-1.39	1452.21	158.24	172.90	1437.54	-136.98
1	34	139	1.89	0.64	1.17	1.36	-0.62	1374.06	298.76	316.00	1356.83	-135.03
1	34	140	1.11	0.92	1.11	0.92	-1.63e-02	1313.08	403.71	407.90	1308.89	-61.57
1	34	141	1.75	0.46	1.10	1.11	0.64	1306.53	408.72	410.25	1305.01	36.99
1	34	142	2.88	0.13	0.82	2.19	1.19	1353.62	309.83	325.10	1338.35	125.34
1	34	143	3.87	-6.82e-02	0.32	3.48	1.17	1410.06	160.02	188.39	1381.69	186.18
1	34	144	4.28	-6.42e-05	5.73e-02	4.23	0.49	1457.60	60.76	96.82	1421.55	221.49
1	34	145	1.94	-4.04e-02	3.64e-02	1.86	-0.38	1624.36	88.06	107.59	1604.82	-172.13
1	34	146	2.19	-4.01e-02	0.28	1.87	-0.79	1564.33	244.74	255.91	1553.16	-120.88
1	34	147	2.04	0.14	0.65	1.52	-0.84	1525.66	362.11	365.36	1522.41	-61.40
1	34	148	1.69	0.50	0.91	1.29	-0.56	1516.77	414.64	414.69	1516.72	7.25
1	34	149	1.55	0.92	0.96	1.51	-0.16	1541.94	396.53	399.50	1538.98	58.21
1	34	150	2.16	0.82	0.83	2.16	9.63e-02	1585.95	333.08	337.59	1581.44	75.03
1	34	151	2.77	0.69	0.69	2.77	1.49e-02	1628.94	265.54	269.44	1625.03	72.85
1	34	152	3.00	0.70	0.72	2.98	-0.19	1646.61	238.85	239.63	1645.84	33.12
1	34	153	-0.22	-1.09	-1.09	-0.22	-4.99e-02	436.91	112.86	413.77	136.00	-83.44
1	34	154	2.86	0.78	0.86	2.78	-0.40	1636.85	268.31	268.51	1636.65	-16.68
1	34	155	2.34	0.99	1.09	2.24	-0.36	1612.12	329.62	330.16	1611.58	-26.33
1	34	156	1.80	1.27	1.27	1.80	-6.75e-03	1595.99	374.78	374.78	1595.99	-2.50
1	34	157	2.15	0.85	1.06	1.95	0.48	1602.56	376.86	377.06	1602.36	15.71
1	34	158	2.93	0.52	0.72	2.73	0.66	1626.50	344.65	345.37	1625.78	30.34
1	34	159	3.44	0.35	0.36	3.43	0.20	1650.87	302.46	303.67	1649.66	40.39
1	34	160	3.24	0.28	0.30	3.21	-0.26	1657.64	289.64	289.79	1657.48	14.70
1	34	161	3.27	0.24	0.37	3.14	-0.63	1657.79	286.95	286.98	1657.75	6.63
1	34	162	2.50	0.44	0.74	2.20	-0.73	1641.88	302.91	303.21	1641.58	-19.95
1	34	163	1.76	0.90	1.15	1.51	-0.39	1615.10	344.98	345.24	1614.84	-18.27
1	34	164	1.47	1.17	1.23	1.41	0.12	1601.12	361.50	361.59	1601.03	10.78
1	34	165	2.17	0.66	0.97	1.86	0.61	1612.96	332.44	333.23	1612.18	31.66
1	34	166	3.15	0.35	0.61	2.90	0.80	1640.08	275.36	276.42	1639.02	37.99
1	34	167	3.88	0.16	0.19	3.86	0.32	1660.22	224.72	225.01	1659.93	20.48
1	34	168	3.72	0.13	0.15	3.71	-0.22	1660.02	216.66	216.84	1659.84	-16.07
1	34	169	3.78	6.11e-02	0.19	3.64	-0.68	1657.67	214.65	215.39	1656.93	-32.70
1	34	170	2.89	0.34	0.70	2.53	-0.89	1627.53	250.85	254.77	1623.61	-73.38
1	34	171	1.87	0.72	1.02	1.57	-0.51	1579.90	318.01	322.43	1575.49	-74.50
1	34	172	1.23	1.08	1.10	1.22	4.57e-02	1539.79	366.12	367.23	1538.68	-36.05
1	34	173	1.74	0.59	0.95	1.38	0.53	1529.59	358.14	358.50	1529.23	20.45
1	34	174	2.41	0.23	0.61	2.04	0.82	1551.11	285.35	290.29	1546.17	78.90
1	34	175	2.97	5.90e-02	0.23	2.81	0.68	1592.53	168.01	178.51	1582.02	121.89
1	34	176	3.08	1.58e-02	6.37e-02	3.03	0.38	1626.79	79.49	95.06	1611.23	154.43
1	34	177	1.34	-2.25e-02	2.12e-02	1.29	-0.24	1746.99	95.50	101.77	1740.72	-101.60
1	34	178	1.63	4.33e-02	0.19	1.48	-0.46	1696.76	232.95	236.27	1693.43	-69.67
1	34	179	1.65	0.23	0.45	1.43	-0.52	1667.33	331.37	332.32	1666.38	-35.62
1	34	180	1.57	0.50	0.67	1.41	-0.38	1660.95	382.06	382.07	1660.95	2.46
1	34	181	1.64	0.70	0.74	1.61	-0.17	1677.74	384.83	385.81	1676.76	35.55
1	34	182	2.02	0.67	0.67	2.02	-3.38e-02	1707.44	356.51	357.63	1706.32	38.88
1	34	183	2.42	0.57	0.57	2.42	-6.25e-02	1737.78	322.49	323.83	1736.44	43.53
1	34	184	2.59	0.57	0.57	2.59	-0.11	1752.79	306.93	307.31	1752.40	23.53
1	34	185	-1.15	-4.17	-1.61	-3.71	1.09	115.44	-99.59	20.44	-4.59	-106.79
1	34	186	2.48	0.69	0.71	2.47	-0.16	1752.17	319.34	319.34	1752.17	1.14
1	34	187	2.18	0.89	0.90	2.17	-0.12	1740.85	350.09	350.11	1740.83	-5.70
1	34	188	1.95	1.01	1.02	1.94	7.75e-02	1732.50	374.96	374.97	1732.49	3.61
1	34	189	2.10	0.85	0.93	2.03	0.29	1734.83	379.13	379.28	1734.68	14.37

1	34	190	2.44	0.59	0.65	2.38	0.32	1746.46	362.88	363.30	1746.03	24.29
1	34	191	2.64	0.44	0.44	2.63	7.39e-02	1759.22	343.03	343.42	1758.82	23.64
1	34	192	2.56	0.48	0.49	2.55	-0.17	1763.49	339.19	339.29	1763.39	12.29
1	34	193	2.54	0.49	0.54	2.49	-0.31	1762.73	336.07	336.13	1762.67	9.25
1	34	194	2.15	0.66	0.77	2.04	-0.39	1754.36	340.61	340.62	1754.36	-1.63
1	34	195	1.71	0.94	1.01	1.65	-0.22	1741.14	355.98	355.98	1741.14	-1.74
1	34	196	1.60	1.03	1.04	1.58	9.25e-02	1733.99	359.48	359.55	1733.91	10.34
1	34	197	2.03	0.74	0.85	1.92	0.36	1738.39	341.03	341.31	1738.11	19.78
1	34	198	2.59	0.41	0.49	2.51	0.41	1749.81	307.33	307.67	1749.47	22.12
1	34	199	2.94	0.25	0.26	2.93	0.19	1757.10	281.79	281.88	1757.02	10.87
1	34	200	2.91	0.24	0.24	2.91	-8.45e-02	1754.00	279.38	279.41	1753.96	-7.18
1	34	201	2.87	0.29	0.32	2.84	-0.28	1749.49	278.18	278.34	1749.33	-15.54
1	34	202	2.38	0.47	0.56	2.30	-0.39	1724.74	294.71	295.51	1723.93	-34.01
1	34	203	1.76	0.75	0.80	1.71	-0.22	1691.09	326.83	327.69	1690.23	-34.32
1	34	204	1.41	0.87	0.88	1.40	7.39e-02	1662.94	344.82	345.04	1662.72	-17.11
1	34	205	1.64	0.61	0.77	1.48	0.37	1652.31	326.26	326.35	1652.22	11.11
1	34	206	2.01	0.33	0.50	1.84	0.51	1663.52	262.85	264.25	1662.13	44.22
1	34	207	2.31	0.16	0.25	2.23	0.43	1693.60	162.58	165.77	1690.42	69.74
1	34	208	2.39	6.12e-02	9.58e-02	2.36	0.28	1721.46	84.47	89.39	1716.54	89.59
1	34	209	0.99	1.54e-03	1.95e-02	0.97	-0.13	1796.98	96.00	96.82	1796.16	-37.36
1	34	210	1.27	0.11	0.15	1.23	-0.23	1752.41	223.29	223.73	1751.97	-25.93
1	34	211	1.39	0.28	0.35	1.33	-0.26	1727.31	313.62	313.72	1727.20	-12.02
1	34	212	1.46	0.47	0.52	1.41	-0.22	1721.29	363.75	363.77	1721.28	4.88
1	34	213	1.63	0.57	0.59	1.61	-0.14	1733.26	376.78	377.02	1733.03	17.98
1	34	214	1.92	0.55	0.56	1.92	-8.82e-02	1756.19	364.49	364.89	1755.79	23.62
1	34	215	2.22	0.50	0.50	2.21	-8.82e-02	1779.34	345.57	345.85	1779.06	20.24
1	34	216	2.36	0.50	0.50	2.36	-1.21e-02	1792.62	335.06	335.21	1792.47	14.85
1	34	217	9.15	-1.50	8.18	-0.53	-3.07	-348.01	-530.70	-511.30	-367.41	56.29
1	34	218	2.30	0.61	0.61	2.29	6.73e-02	1795.32	340.90	340.95	1795.27	8.68
1	34	219	2.10	0.76	0.77	2.10	0.10	1789.37	359.03	359.05	1789.34	5.60
1	34	220	1.97	0.82	0.84	1.94	0.18	1783.68	374.21	374.26	1783.63	8.21
1	34	221	2.00	0.76	0.81	1.95	0.23	1784.07	377.98	378.11	1783.95	13.49
1	34	222	2.12	0.66	0.69	2.10	0.19	1790.36	370.30	370.51	1790.16	17.01
1	34	223	2.21	0.59	0.59	2.20	5.81e-02	1797.32	359.82	359.98	1797.15	15.56
1	34	224	2.14	0.59	0.59	2.14	-4.79e-02	1799.33	357.36	357.46	1799.24	11.70
1	34	225	2.12	0.60	0.61	2.12	-9.59e-02	1798.83	354.51	354.60	1798.74	11.00
1	34	226	1.89	0.72	0.73	1.88	-0.13	1792.97	354.21	354.25	1792.92	8.01
1	34	227	1.66	0.87	0.87	1.65	-5.19e-02	1784.15	360.14	360.17	1784.12	7.08
1	34	228	1.63	0.87	0.88	1.62	8.91e-02	1778.76	358.65	358.72	1778.69	10.46
1	34	229	1.87	0.70	0.73	1.84	0.19	1780.05	343.86	343.99	1779.91	13.80
1	34	230	2.21	0.48	0.50	2.19	0.20	1785.03	321.18	321.31	1784.90	14.00
1	34	231	2.44	0.33	0.34	2.43	0.13	1785.94	304.74	304.81	1785.88	9.53
1	34	232	2.42	0.31	0.31	2.42	5.65e-02	1780.33	303.42	303.44	1780.31	5.08
1	34	233	2.39	0.33	0.33	2.39	8.10e-03	1775.80	301.68	301.69	1775.79	3.26
1	34	234	2.09	0.46	0.46	2.09	-2.45e-02	1753.42	310.43	310.44	1753.41	-3.66
1	34	235	1.70	0.63	0.63	1.70	1.62e-02	1725.14	327.28	327.30	1725.13	-4.49
1	34	236	1.48	0.68	0.70	1.46	0.11	1701.49	331.27	331.27	1701.49	0.39
1	34	237	1.52	0.55	0.62	1.46	0.25	1691.32	307.19	307.22	1691.30	6.16
1	34	238	1.70	0.36	0.43	1.63	0.31	1698.53	247.73	247.85	1698.41	13.41
1	34	239	1.87	0.19	0.23	1.83	0.26	1722.46	154.99	155.26	1722.18	20.83
1	34	240	1.93	8.31e-02	9.90e-02	1.92	0.17	1746.19	83.40	83.87	1745.72	27.97
1	34	241	0.82	1.35e-02	1.45e-02	0.82	-2.74e-02	1781.12	94.25	94.93	1780.44	33.87
1	34	242	1.10	0.13	0.14	1.10	-2.48e-02	1737.81	219.46	219.90	1737.37	25.85
1	34	243	1.24	0.32	0.32	1.24	-2.69e-02	1713.20	308.20	308.39	1713.01	16.62
1	34	244	1.35	0.48	0.48	1.35	-5.21e-02	1706.96	357.94	357.99	1706.91	8.32
1	34	245	1.55	0.55	0.55	1.54	-8.71e-02	1717.81	371.64	371.64	1717.80	2.53
1	34	246	1.85	0.52	0.53	1.84	-0.11	1739.18	360.92	360.92	1739.18	0.72
1	34	247	2.14	0.47	0.47	2.13	-8.75e-02	1760.99	343.88	343.88	1760.98	2.49
1	34	248	2.28	0.46	0.46	2.28	7.48e-02	1773.16	334.09	334.13	1773.12	7.84
1	34	249	3.44	-3.21	-2.29	2.52	-2.30	-743.96	-999.54	-996.89	-746.61	-25.90
1	34	250	2.27	0.52	0.56	2.23	0.26	1775.21	338.89	339.02	1775.07	13.72
1	34	251	2.09	0.64	0.71	2.02	0.30	1768.57	355.00	355.16	1768.41	14.89
1	34	252	1.92	0.73	0.80	1.85	0.28	1761.98	368.79	368.92	1761.85	13.29
1	34	253	1.85	0.74	0.79	1.81	0.22	1761.16	372.21	372.29	1761.08	10.64
1	34	254	1.91	0.66	0.68	1.89	0.14	1766.04	364.72	364.78	1765.97	9.59
1	34	255	1.98	0.58	0.59	1.97	8.29e-02	1771.67	354.80	354.88	1771.60	10.13
1	34	256	1.94	0.58	0.59	1.94	6.33e-02	1772.79	352.42	352.54	1772.68	12.79
1	34	257	1.92	0.59	0.59	1.92	5.98e-02	1772.07	350.26	350.39	1771.94	13.63
1	34	258	1.76	0.68	0.68	1.76	7.61e-02	1765.26	349.49	349.66	1765.10	15.49
1	34	259	1.60	0.77	0.78	1.59	0.10	1755.62	354.03	354.19	1755.46	15.09
1	34	260	1.57	0.78	0.80	1.55	0.11	1749.36	351.92	352.01	1749.27	11.39
1	34	261	1.71	0.68	0.69	1.70	8.11e-02	1749.86	337.72	337.77	1749.81	8.27
1	34	262	1.97	0.49	0.49	1.97	5.56e-02	1753.99	315.82	315.86	1753.95	7.94
1	34	263	2.18	0.33	0.34	2.17	8.91e-02	1754.12	299.64	299.74	1754.02	11.85
1	34	264	2.19	0.30	0.31	2.18	0.13	1748.06	298.00	298.19	1747.87	16.60
1	34	265	2.17	0.30	0.31	2.16	0.14	1743.38	296.69	296.94	1743.13	19.10

1	34	266	1.97	0.39	0.41	1.95	0.18	1720.55	304.74	305.10	1720.19	22.47
1	34	267	1.67	0.51	0.54	1.64	0.18	1691.87	320.55	320.84	1691.57	20.21
1	34	268	1.45	0.56	0.59	1.42	0.16	1667.73	323.88	324.02	1667.59	13.53
1	34	269	1.39	0.50	0.54	1.36	0.17	1656.95	299.56	299.57	1656.94	3.74
1	34	270	1.46	0.36	0.38	1.44	0.15	1663.14	240.82	240.84	1663.12	-5.45
1	34	271	1.58	0.19	0.20	1.57	0.12	1685.46	149.74	149.88	1685.32	-14.54
1	34	272	1.62	8.98e-02	9.24e-02	1.62	6.34e-02	1707.71	80.43	80.71	1707.44	-21.06
1	34	273	0.84	-3.69e-03	4.49e-03	0.83	8.28e-02	1702.47	90.07	96.21	1696.33	99.25
1	34	274	1.14	9.79e-02	0.13	1.10	0.19	1655.97	220.59	224.18	1652.38	71.69
1	34	275	1.24	0.29	0.35	1.18	0.22	1628.27	313.34	314.64	1626.96	41.45
1	34	276	1.27	0.52	0.54	1.24	0.14	1620.92	362.03	362.11	1620.83	10.48
1	34	277	1.42	0.63	0.63	1.42	-1.89e-02	1634.16	367.72	367.87	1634.01	-13.72
1	34	278	1.79	0.57	0.58	1.77	-0.14	1660.37	344.61	345.48	1659.50	-33.80
1	34	279	2.17	0.48	0.48	2.16	-0.11	1684.88	317.86	318.15	1684.59	-20.07
1	34	280	2.37	0.44	0.45	2.36	0.12	1697.08	304.79	304.79	1697.08	0.73
1	34	281	-0.95	-2.22	-2.07	-1.11	0.42	141.76	-277.53	-73.53	-62.24	209.57
1	34	282	2.36	0.46	0.55	2.27	0.42	1694.81	313.67	314.01	1694.46	21.82
1	34	283	2.12	0.56	0.73	1.95	0.48	1682.11	338.09	338.62	1681.58	26.66
1	34	284	1.82	0.71	0.84	1.68	0.36	1670.55	357.86	358.15	1670.26	19.45
1	34	285	1.65	0.80	0.83	1.61	0.17	1668.76	361.13	361.14	1668.75	3.18
1	34	286	1.74	0.69	0.69	1.74	3.20e-02	1676.29	347.52	347.53	1676.29	-3.11
1	34	287	1.90	0.53	0.53	1.90	4.73e-02	1684.52	330.53	330.55	1684.50	5.96
1	34	288	1.91	0.56	0.57	1.90	9.91e-02	1685.73	326.62	326.79	1685.56	15.23
1	34	289	1.91	0.49	0.50	1.89	0.15	1685.12	324.16	324.39	1684.88	17.71
1	34	290	1.75	0.59	0.64	1.70	0.23	1674.40	327.94	328.46	1673.88	26.38
1	34	291	1.54	0.68	0.73	1.48	0.21	1659.13	339.93	340.41	1658.64	25.23
1	34	292	1.41	0.75	0.77	1.39	0.11	1649.40	341.85	341.98	1649.28	12.93
1	34	293	1.52	0.72	0.72	1.52	-5.00e-02	1651.14	324.70	324.70	1651.14	0.56
1	34	294	1.84	0.50	0.51	1.83	-0.13	1659.91	293.49	293.49	1659.91	-0.91
1	34	295	2.12	0.34	0.34	2.12	-1.26e-03	1664.32	269.18	269.29	1664.20	12.62
1	34	296	2.15	0.28	0.28	2.14	0.10	1659.27	265.03	265.57	1658.73	27.36
1	34	297	2.15	0.23	0.24	2.14	0.12	1654.83	263.94	264.64	1654.13	31.13
1	34	298	1.96	0.33	0.38	1.90	0.29	1629.27	278.73	280.50	1627.50	48.87
1	34	299	1.64	0.42	0.51	1.55	0.32	1595.04	306.26	308.12	1593.18	48.88
1	34	300	1.35	0.51	0.56	1.29	0.21	1565.69	321.76	322.43	1565.02	28.82
1	34	301	1.22	0.49	0.51	1.21	9.72e-02	1553.15	302.18	302.18	1553.15	-1.42
1	34	302	1.27	0.36	0.36	1.27	2.11e-02	1560.66	240.98	241.70	1559.94	-30.87
1	34	303	1.38	0.18	0.18	1.38	4.33e-03	1584.59	146.35	148.54	1582.41	-56.05
1	34	304	1.44	8.00e-02	8.10e-02	1.44	-3.66e-02	1607.84	75.85	79.54	1604.15	-75.12
1	34	305	1.06	-4.29e-02	-7.65e-03	1.02	0.19	1558.75	80.01	99.16	1539.59	167.20
1	34	306	1.40	3.95e-04	0.17	1.23	0.46	1505.71	224.72	236.17	1494.26	120.57
1	34	307	1.45	0.17	0.45	1.17	0.53	1470.88	330.78	334.87	1466.78	68.23
1	34	308	1.29	0.46	0.67	1.07	0.36	1460.63	380.48	380.59	1460.52	10.76
1	34	309	1.21	0.78	0.79	1.20	6.34e-02	1479.85	367.29	369.08	1478.06	-44.56
1	34	310	1.71	0.68	0.73	1.67	-0.20	1517.21	313.42	317.82	1512.80	-72.67
1	34	311	2.32	0.55	0.57	2.31	-0.16	1549.24	262.13	263.98	1547.38	-48.87
1	34	312	2.66	0.50	0.52	2.65	0.19	1561.94	241.28	241.29	1561.93	-3.44
1	34	313	0.35	-0.85	-0.58	8.47e-02	0.50	512.67	-32.40	367.61	112.65	240.88
1	34	314	2.63	0.42	0.62	2.43	0.63	1551.77	261.77	263.00	1550.54	39.83
1	34	315	2.21	0.48	0.82	1.87	0.69	1526.98	309.58	311.52	1525.03	48.63
1	34	316	1.67	0.68	0.94	1.41	0.43	1505.25	346.63	347.44	1504.45	30.49
1	34	317	1.36	0.92	0.93	1.35	7.02e-02	1502.39	348.68	348.96	1502.10	-18.22
1	34	318	1.65	0.66	0.70	1.62	-0.17	1517.43	317.76	318.42	1516.77	-28.04
1	34	319	2.01	0.44	0.44	2.00	-6.82e-02	1533.66	283.68	283.69	1533.65	-3.62
1	34	320	2.12	0.53	0.54	2.11	0.12	1536.98	273.92	274.17	1536.74	17.74
1	34	321	2.09	0.27	0.33	2.03	0.33	1535.00	270.78	271.29	1534.50	25.30
1	34	322	1.88	0.41	0.55	1.73	0.43	1518.00	284.67	286.42	1516.26	46.39
1	34	323	1.49	0.55	0.71	1.34	0.35	1491.69	319.84	321.47	1490.06	43.62
1	34	324	1.17	0.73	0.77	1.13	0.13	1475.11	334.22	334.44	1474.89	15.92
1	34	325	1.34	0.75	0.81	1.28	-0.18	1479.41	307.29	307.63	1479.07	-19.87
1	34	326	1.85	0.46	0.57	1.74	-0.38	1498.60	251.55	252.17	1497.99	-27.65
1	34	327	2.28	0.26	0.28	2.26	-0.20	1513.74	206.52	206.55	1513.70	6.71
1	34	328	2.37	0.30	0.30	2.37	2.26e-02	1512.48	197.92	198.88	1511.52	35.58
1	34	329	2.35	0.10	0.13	2.33	0.23	1507.55	196.04	198.02	1505.57	50.83
1	34	330	2.07	0.26	0.38	1.95	0.45	1477.80	226.31	232.05	1472.06	84.58
1	34	331	1.58	0.38	0.55	1.41	0.42	1433.25	286.10	292.48	1426.87	85.31
1	34	332	1.16	0.48	0.58	1.07	0.23	1394.28	327.88	330.17	1391.98	49.40
1	34	333	1.03	0.52	0.52	1.03	5.24e-03	1378.70	317.26	317.29	1378.66	-6.28
1	34	334	1.17	0.33	0.35	1.14	-0.13	1390.17	249.15	252.14	1387.18	-58.32
1	34	335	1.30	0.14	0.15	1.29	-0.11	1418.52	142.33	149.93	1410.92	-98.17
1	34	336	1.37	4.88e-02	5.81e-02	1.36	-0.11	1444.22	66.50	78.55	1432.17	-128.29
1	34	337	1.55	1.36e-02	9.12e-02	1.47	0.34	1338.08	55.82	98.88	1295.02	231.01
1	34	338	1.99	-4.32e-02	0.39	1.55	0.84	1285.67	223.69	253.10	1256.27	174.25
1	34	339	1.81	-4.42e-02	0.60	1.16	0.88	1238.67	360.26	371.42	1227.51	98.38
1	34	340	1.40	0.21	0.79	0.82	0.59	1222.15	420.19	420.29	1222.05	9.00
1	34	341	1.05	0.67	0.90	0.82	0.19	1249.62	373.55	381.38	1241.79	-82.46

1	34	342	1.62	0.77	0.86	1.53	-0.27	1299.44	261.87	275.08	1286.22	-116.34
1	34	343	2.62	0.68	0.73	2.57	-0.33	1344.86	159.88	165.73	1339.02	-83.03
1	34	344	3.26	1.00	1.04	3.22	0.31	1358.15	126.22	126.22	1358.15	-2.27
1	34	345	-1.92e-02	-0.88	-0.84	-5.89e-02	0.18	615.91	115.68	572.87	158.72	140.29
1	34	346	3.13	0.43	0.81	2.74	0.94	1339.26	170.77	176.04	1333.98	78.33
1	34	347	2.28	0.31	0.90	1.68	0.90	1294.48	269.36	277.14	1286.71	88.92
1	34	348	1.42	0.56	1.00	0.98	0.43	1259.53	345.25	347.90	1256.89	49.13
1	34	349	0.99	0.82	0.88	0.93	-7.89e-02	1252.92	343.44	344.37	1252.00	-28.95
1	34	350	1.86	0.45	0.70	1.62	-0.53	1278.80	270.70	275.12	1274.38	-66.65
1	34	351	2.34	0.11	0.16	2.29	-0.32	1309.34	197.90	199.08	1308.16	-36.20
1	34	352	2.67	0.35	0.35	2.66	0.11	1316.18	172.56	172.97	1315.77	21.68
1	34	353	2.57	-0.29	-0.14	2.42	0.63	1316.41	168.93	170.30	1315.03	39.72
1	34	354	2.23	0.31	0.66	1.88	0.74	1289.22	212.52	219.39	1282.34	85.75
1	34	355	1.35	0.31	0.65	1.01	0.49	1246.55	299.42	305.63	1240.33	76.48
1	34	356	1.10	0.68	0.98	0.80	0.19	1220.78	345.77	346.28	1220.27	21.19
1	34	357	1.06	0.56	0.77	0.84	-0.25	1227.21	291.98	293.80	1225.39	-41.24
1	34	358	2.11	0.27	0.67	1.71	-0.76	1260.25	182.72	186.73	1256.24	-65.65
1	34	359	2.77	-0.11	-7.58e-03	2.67	-0.54	1291.14	93.50	93.78	1290.86	-18.11
1	34	360	2.91	0.37	0.37	2.91	-8.00e-02	1294.78	75.19	76.91	1293.05	45.78
1	34	361	2.99	-0.36	-0.25	2.89	0.60	1295.05	69.65	74.71	1289.99	78.57
1	34	362	2.42	0.26	0.61	2.08	0.79	1260.35	134.59	152.87	1242.08	142.25
1	34	363	1.38	0.24	0.57	1.05	0.52	1204.92	257.25	278.21	1183.96	139.38
1	34	364	0.92	0.46	0.62	0.77	0.22	1153.44	350.91	358.22	1146.14	76.20
1	34	365	0.77	0.44	0.50	0.71	-0.13	1130.12	351.74	351.90	1129.96	-11.15
1	34	366	1.24	0.17	0.31	1.10	-0.37	1146.80	259.62	268.85	1137.56	-90.05
1	34	367	1.52	-4.53e-03	6.00e-02	1.45	-0.31	1182.95	126.07	145.31	1163.71	-141.30
1	34	368	1.34	1.22e-03	2.72e-03	1.34	-4.48e-02	1203.50	43.29	70.69	1176.10	-176.19
1	34	369	3.48	2.07	2.41	3.14	0.60	1045.38	12.35	92.67	965.06	276.62
1	34	370	2.83	-0.72	0.67	1.44	1.73	993.74	188.65	264.56	917.83	235.27
1	34	371	1.83	-5.04e-02	0.77	1.01	0.93	941.80	397.85	427.24	912.41	122.97
1	34	372	1.30	-2.98e-03	0.68	0.61	0.65	907.85	489.44	489.59	907.70	-8.05
1	34	373	0.94	0.23	0.55	0.62	0.35	942.41	394.87	419.04	918.23	-112.47
1	34	374	0.99	0.35	0.35	0.99	-1.14e-02	1003.80	175.06	219.28	959.59	-186.25
1	34	375	2.96	-0.36	0.12	2.48	-1.16	1037.92	-34.07	-4.99	1008.84	-174.15
1	34	376	6.57	4.38	5.73	5.21	1.06	1110.23	-61.39	-61.35	1110.19	7.07
1	34	377	-0.12	-0.71	-0.70	-0.13	8.01e-02	587.48	148.01	587.23	148.25	10.44
1	34	378	2.95	-0.41	0.21	2.33	1.30	1021.43	7.22	33.49	995.16	161.10
1	34	379	1.83	0.30	0.85	1.28	0.74	990.61	214.11	247.02	957.70	156.44
1	34	380	0.89	0.39	0.59	0.70	0.24	932.07	366.90	377.15	921.83	75.40
1	34	381	0.76	0.54	0.67	0.63	-0.11	916.01	368.74	370.11	914.65	-27.31
1	34	382	1.35	-0.23	0.25	0.87	-0.72	953.61	202.76	219.84	936.53	-111.94
1	34	383	4.36	-1.26	7.78e-02	3.03	-2.39	975.24	45.31	56.10	964.45	-99.60
1	34	384	7.03	-0.62	0.21	6.21	2.37	1045.49	-16.58	-14.28	1043.19	49.35
1	34	385	4.34	-1.93	0.30	2.11	3.00	995.51	-21.75	-13.67	987.43	90.32
1	34	386	1.07	-0.30	-0.23	1.00	0.30	968.87	76.54	101.22	944.19	146.34
1	34	387	1.29	0.16	0.52	0.92	0.53	928.10	285.68	311.17	902.61	125.41
1	34	388	0.86	0.30	0.63	0.53	0.28	887.87	378.54	380.17	886.24	28.73
1	34	389	0.80	0.47	0.76	0.51	-0.11	894.55	301.51	310.45	885.60	-72.27
1	34	390	1.33	-0.19	0.45	0.69	-0.75	934.43	81.63	101.32	914.74	-128.08
1	34	391	5.09	-1.78	0.17	3.14	-3.09	950.62	-104.48	-96.64	942.78	-90.60
1	34	392	8.40	0.19	0.60	8.00	1.78	1042.33	-144.91	-140.54	1037.97	71.86
1	34	393	5.00	-2.33	0.12	2.55	3.46	976.65	-169.51	-148.48	955.62	153.83
1	34	394	1.14	-0.11	-1.80e-04	1.04	0.35	962.72	-33.45	20.94	908.33	226.32
1	34	395	1.24	0.27	0.61	0.90	0.47	924.43	218.42	285.99	856.86	207.70
1	34	396	0.66	0.33	0.51	0.48	0.17	856.94	388.99	413.92	832.01	105.10
1	34	397	0.67	0.24	0.47	0.43	-0.21	816.16	413.77	414.32	815.61	-14.88
1	34	398	0.95	-0.48	-3.21e-03	0.47	-0.68	836.30	261.82	290.21	807.91	-124.53
1	34	399	2.58	-1.26	-0.47	1.79	-1.56	858.72	64.03	113.64	809.12	-192.24
1	34	400	3.65	1.12	1.16	3.61	0.32	887.31	1.91	48.09	841.13	-196.86
1	34	401	4.04	-1.01	1.49	1.53	-2.53	556.17	-177.88	-66.35	444.64	263.49
1	34	402	1.22	-0.72	0.56	-6.65e-02	-0.92	655.04	53.11	255.04	453.11	284.21
1	34	403	2.02	0.85	1.19	1.67	0.54	657.87	407.30	530.67	534.50	125.27
1	34	404	0.72	-9.62e-02	0.13	0.50	0.37	598.81	529.75	582.45	546.10	-29.36
1	34	405	0.64	-0.35	-0.32	0.61	0.18	644.78	377.03	488.45	533.36	-131.98
1	34	406	2.45	-0.14	-0.12	2.43	-0.20	635.71	102.82	237.02	501.51	-231.31
1	34	407	-1.03	-3.85	-1.65	-3.24	1.16	554.60	-384.63	-259.50	429.47	-319.17
1	34	408	9.17	-0.12	9.17	-0.12	-3.08e-02	614.55	-591.01	-590.88	614.42	12.56
1	34	409	0.21	-1.01	-0.40	-0.40	0.61	410.51	51.57	400.54	61.54	-58.98
1	34	410	1.42	-1.78	0.74	-1.10	-1.31	569.76	-240.17	-120.95	450.53	286.97
1	34	411	2.24	0.22	0.22	2.24	2.20e-02	599.46	191.95	280.76	510.65	168.23
1	34	412	0.68	-0.48	-0.45	0.65	0.18	585.45	380.16	437.01	528.60	91.86
1	34	413	0.40	-0.16	-0.14	0.39	7.80e-02	530.74	418.23	428.52	520.46	-32.42
1	34	414	2.04	0.32	0.62	1.74	-0.65	548.95	180.20	237.70	491.44	-133.79
1	34	415	-1.30	-4.87	-1.83	-4.33	-1.27	499.09	-282.11	-214.10	431.08	-220.23
1	34	416	10.81	8.12	9.38	9.56	1.34	500.06	-255.95	-255.94	500.05	2.74
1	34	417	3.90	-2.76	2.12	-0.98	2.95	530.09	-439.86	-411.34	501.58	163.84

1	34	418	4.29	1.18	1.46	4.01	0.90	587.40	-46.03	70.45	470.92	245.39
1	34	419	1.31	-0.22	6.57e-02	1.02	0.60	569.22	267.69	344.97	491.94	131.65
1	34	420	0.53	-0.23	-5.97e-02	0.36	0.32	526.02	428.84	443.57	511.29	34.85
1	34	421	0.24	-0.16	-0.14	0.21	9.12e-02	531.24	313.61	354.61	490.23	-85.11
1	34	422	2.28	0.56	0.93	1.91	-0.71	518.50	22.36	93.41	447.46	-173.79
1	34	423	-0.47	-5.74	-0.89	-5.32	-1.43	449.81	-495.76	-437.97	392.02	-226.51
1	34	424	11.86	10.69	11.86	10.69	2.00e-02	468.63	-444.87	-442.78	466.55	43.57
1	34	425	3.59	-3.07	3.09	-2.57	1.76	512.64	-630.81	-566.75	448.58	262.95
1	34	426	4.57	1.47	1.81	4.23	0.97	610.02	-193.61	-13.53	429.93	335.10
1	34	427	1.09	7.73e-03	0.22	0.88	0.43	637.45	143.74	320.21	460.98	236.61
1	34	428	0.37	-8.02e-03	0.11	0.26	0.18	615.41	362.79	493.08	485.12	126.24
1	34	429	0.23	1.49e-02	9.24e-02	0.16	-0.10	500.14	467.67	499.70	468.11	-3.77
1	34	430	1.93	0.33	0.98	1.28	-0.79	531.24	257.11	364.57	423.77	-133.83
1	34	431	-1.48	-4.97	-2.61	-3.84	-1.64	420.04	-135.42	1.25	283.36	-239.24
1	34	432	6.67	-1.60	-1.54	6.61	0.71	358.63	-169.83	-117.47	306.27	-157.89
1	34	433	3.22	-2.63	-2.05	2.64	-1.75	431.52	-19.65	372.73	39.14	151.88
1	34	434	0.25	-1.37	-1.35	0.23	0.18	620.06	132.82	597.32	155.56	102.77
1	34	435	7.34e-02	-0.66	-0.66	7.23e-02	-2.88e-02	690.68	189.99	687.96	192.70	-36.79
1	34	436	0.24	-1.17	-0.96	3.37e-02	-0.50	614.11	125.84	570.40	169.56	-139.41
1	34	437	-2.13	-2.81	-2.14	-2.80	-7.36e-02	335.94	-91.28	194.56	50.11	-201.03
1	34	438	7.41	-3.02	7.28	-2.90	-1.14	-102.63	-364.49	-271.03	-196.09	-125.46
1	34	439	2.86	0.76	1.49	2.13	-1.00	23.59	-219.96	19.83	-216.20	-30.02
1	34	440	4.06	-2.29	3.57	-1.80	1.70	93.57	-165.92	-10.22	-62.14	127.13
1	34	441	-2.12	-3.17	-2.74	-2.55	0.52	318.19	15.89	260.29	73.79	118.95
1	34	442	0.32	-1.46	-1.24	0.10	0.59	533.28	140.40	510.73	162.95	91.38
1	34	443	-6.63e-02	-1.28	-1.27	-8.12e-02	0.13	498.67	153.77	495.97	156.47	-30.40
1	34	444	-1.23	-3.48	-1.88	-2.83	1.03	244.34	11.25	206.88	48.71	-85.60
1	34	445	6.97	-1.00	6.54	-0.56	-1.81	-195.86	-236.84	-216.63	-216.06	20.49
1	34	447	1.13	-3.21	-3.15	1.07	0.51	218.11	-61.70	217.83	-61.42	8.88
1	34	448	4.52	-7.53	-3.28	0.27	5.76	222.22	-222.90	214.14	-214.82	-59.45
1	34	449	19.79	6.99	13.00	13.79	6.39	382.84	40.66	86.08	337.42	116.10
1	34	450	6.59	-0.42	-9.47e-02	6.26	1.48	1144.52	-38.27	-25.72	1131.97	121.22
1	34	451	3.38	-0.45	-0.44	3.37	-0.18	1450.70	-21.05	-15.23	1444.87	92.40
1	34	452	3.00	-1.10e-02	-1.01e-02	3.00	-5.25e-02	1639.23	-15.57	-13.53	1637.18	58.12
1	34	453	2.42	3.30e-02	3.31e-02	2.42	1.09e-02	1738.66	-15.04	-14.53	1738.15	29.91
1	34	454	1.93	3.92e-02	4.01e-02	1.93	3.95e-02	1765.07	-15.12	-15.11	1765.07	2.49
1	34	455	1.61	3.34e-02	3.58e-02	1.61	6.24e-02	1725.30	-16.84	-16.72	1725.18	-14.32
1	34	456	1.47	3.19e-02	3.69e-02	1.47	8.49e-02	1621.36	-20.27	-19.54	1620.62	-34.73
1	34	457	1.51	-9.14e-03	-3.18e-04	1.50	0.12	1447.28	-27.24	-25.34	1445.38	-52.94
1	34	458	1.70	-0.18	-0.14	1.67	0.26	1190.02	-37.53	-34.31	1186.80	-62.81
1	34	459	0.14	-3.37	-2.69	-0.54	1.39	772.40	-88.32	-85.44	769.52	-49.73
1	34	460	3.98	0.24	3.02	1.20	-1.63	253.71	23.77	26.69	250.78	-25.76
1	34	461	2.75	2.65e-02	0.85	1.93	1.25	135.52	-145.56	122.78	-132.82	-58.47
1	34	462	4.88	-5.80	0.71	-1.63	-5.21	128.55	-218.67	119.22	-209.34	56.15
1	34	463	13.82	4.55	7.31	11.06	-4.24	266.23	2.59	71.18	197.63	-115.67
1	34	464	5.57	-0.67	-0.39	5.29	-1.30	1019.51	-43.82	-25.40	1001.09	-138.74
1	34	465	1.83	-0.34	-0.34	1.83	2.48e-02	1408.31	-18.87	-9.01	1398.45	-118.21
1	34	466	1.22	-9.36e-02	-8.97e-02	1.21	7.14e-02	1639.87	-10.06	-6.43	1636.24	-77.30
1	34	467	0.79	-5.44e-02	-5.35e-02	0.79	2.70e-02	1770.72	-8.02	-7.00	1769.70	-42.64
1	34	468	0.49	-3.39e-02	-3.35e-02	0.49	-1.45e-02	1823.26	-7.26	-7.18	1823.18	-12.28
1	34	469	0.34	-3.74e-02	-3.31e-02	0.34	-4.03e-02	1806.68	-8.28	-7.96	1806.35	24.28
1	34	470	0.34	-3.95e-02	-3.19e-02	0.33	-5.31e-02	1723.57	-11.00	-9.25	1721.83	55.03
1	34	471	0.47	-6.57e-02	-5.44e-02	0.46	-7.70e-02	1569.04	-16.72	-11.95	1564.27	86.86
1	34	472	0.66	-0.41	-0.37	0.62	-0.21	1328.03	-28.25	-18.66	1318.44	113.64
1	34	473	0.59	-2.48	-2.29	0.40	-0.74	922.76	-72.09	-57.66	908.33	118.94
1	34	474	5.00	1.76	3.36	3.40	1.62	347.22	23.04	64.60	305.65	108.38
1	34	475	2.83	-11.61	2.22	-11.01	2.90	380.26	-149.87	-146.77	377.17	40.40
1	34	476	16.55	-23.91	16.11	-23.47	4.21	882.95	-753.77	-753.70	882.88	-11.01
1	34	477	11.65	-23.11	9.83	-21.29	7.74	779.64	-565.16	-564.18	778.65	36.42
1	34	478	-0.45	-4.84	-0.56	-4.73	0.67	609.86	-1088.49	-1088.29	609.66	-18.58
1	34	479	0.93	-8.50	-3.16	-4.41	-4.68	252.90	-216.66	-203.24	239.48	-78.25
1	34	480	21.46	8.92	15.95	14.43	6.23	352.12	-789.68	-789.64	352.08	6.27
1	34	481	0.23	-2.63	-0.27	-2.13	1.09	-86.77	-175.68	-100.66	-161.79	32.28
1	34	482	-0.85	-2.38	-2.32	-0.90	-0.28	414.65	-72.81	413.00	-71.16	28.32
1	34	483	-0.40	-2.40	-2.39	-0.41	-0.16	541.58	-76.24	540.72	-75.38	23.02
1	34	484	-0.22	-2.33	-2.33	-0.22	2.28e-02	426.53	-74.91	426.46	-74.85	-5.65
1	34	485	0.90	-3.48	-2.84	0.27	-1.54	80.78	-96.06	62.94	-78.22	-53.26
1	34	486	9.41	-5.63	4.04	-0.26	7.21	-187.53	-887.16	-838.55	-236.14	177.90
1	34	487	17.13	12.87	16.68	13.33	1.31	195.93	-1098.08	-1096.93	194.78	-38.57
1	34	488	0.79	-2.87	-0.34	-1.74	1.69	-76.78	-248.96	-180.97	-144.77	84.16
1	34	489	-0.79	-2.15	-2.09	-0.85	-0.28	389.29	-87.77	377.16	-75.64	75.10
1	34	490	-0.34	-2.21	-2.20	-0.36	-0.15	604.76	-84.11	598.40	-77.75	65.89
1	34	491	-0.35	-2.46	-2.45	-0.36	0.19	617.66	-79.79	615.70	-77.82	37.01
1	34	492	-2.66	-4.09	-4.08	-2.66	-9.89e-02	415.36	-120.07	415.19	-119.91	9.44
1	34	493	7.12	3.72	4.43	6.41	1.39	232.16	-47.13	225.12	-40.09	43.80
1	34	494	-4.63e-02	-2.39	-1.77	-0.66	1.03	636.43	-68.96	633.47	-65.99	45.66

1	34	495	-0.41	-2.43	-2.43	-0.41	-2.50e-02	730.58	-58.87	729.92	-58.21	-22.83
1	34	496	-0.38	-1.84	-1.84	-0.38	-2.92e-02	601.17	-61.67	599.12	-59.63	-36.80
1	34	497	2.47	-1.65	-0.24	1.07	-1.95	256.71	-82.09	223.02	-48.40	-101.39
1	34	498	9.65	-8.79	5.39	-4.53	7.77	-233.58	-669.04	-631.63	-271.00	122.04
1	34	499	9.15	2.79	3.39	8.56	-1.85	56.24	-88.68	-69.70	37.26	48.90
1	34	500	8.96	-7.48	6.12	-4.64	-6.22	-262.71	-455.85	-397.50	-321.06	-88.69
1	34	501	3.62	-1.10	0.33	2.19	2.17	329.70	-44.56	311.62	-26.48	80.24
1	34	502	-0.27	-1.95	-1.95	-0.27	5.79e-02	540.81	-70.36	535.95	-65.50	54.29
1	34	503	-0.23	-2.56	-2.56	-0.23	-7.40e-03	516.85	-69.80	516.36	-69.31	16.93
1	34	504	0.80	-3.58	-2.97	0.18	-1.52	257.75	-78.21	253.03	-73.49	-39.54
1	34	505	7.05	-4.18	2.21	0.66	5.56	-174.73	-536.89	-493.86	-217.75	117.17
1	34	506	8.22	4.51	5.13	7.61	1.38	-140.11	-234.33	-149.64	-224.80	28.41
1	34	507	2.20	-2.27	-1.92	1.84	1.21	-102.49	-190.37	-139.78	-153.08	43.43
1	34	508	-0.23	-4.05	-4.03	-0.24	-0.22	687.47	-8.96	686.82	-8.31	21.23
1	34	509	1.58e-02	-2.12	-1.64	-0.47	-0.90	536.56	-33.30	521.69	-18.43	-90.85
1	34	510	-0.11	-4.06	-4.01	-0.15	0.40	568.25	-31.94	546.26	-9.95	112.76
1	34	511	5.28	-1.09	0.27	3.93	2.61	234.18	-167.54	32.47	34.17	200.85
1	34	512	6.08	-29.70	-2.55	-21.06	-15.31	-340.47	-1099.27	-1068.45	-371.29	-149.77
1	34	513	16.27	6.82	14.09	9.00	-3.98	258.73	-1147.45	-1147.15	258.43	20.60
1	34	514	16.48	-2.02	13.12	1.35	7.14	-105.03	-1343.42	-1341.61	-106.84	47.38
1	34	515	8.04	-0.92	6.32	0.81	-3.53	122.60	-283.87	-172.41	11.14	-181.33
1	34	516	-1.98e-02	-2.46	-2.02	-0.46	-0.93	546.04	-51.49	507.97	-13.42	-145.94
1	34	517	-0.28	-4.33	-4.31	-0.29	-0.25	780.20	-7.91	777.97	-5.68	-41.86
1	34	518	-0.43	-4.68	-4.68	-0.43	0.14	779.81	-13.43	775.66	-9.27	57.24
1	34	519	0.84	-3.35	-3.05	0.53	1.09	520.79	-34.99	482.75	3.04	140.33
1	34	520	-1.64	-13.86	-6.77	-8.73	-6.03	-87.63	-205.56	-187.96	-105.23	42.02
1	34	521	-1.97e-02	-4.09	-2.44	-1.67	2.00	234.42	-80.68	216.06	-62.31	-73.83
1	34	522	5.64	-10.80	-7.79	2.63	6.35	109.20	-246.61	-243.40	106.00	33.62
1	34	523	0.84	-2.78	-2.33	0.39	-1.19	731.67	-26.54	720.53	-15.40	-91.23
1	34	524	-0.38	-4.32	-4.32	-0.38	-4.17e-02	841.32	-18.36	841.07	-18.11	-14.69
1	34	525	-2.07e-02	-3.57	-3.50	-9.79e-02	0.52	717.31	-32.93	701.83	-17.45	106.65
1	34	526	6.51	-0.35	2.82	3.34	3.42	367.72	-98.78	257.61	11.33	198.10
1	34	527	8.57	-21.37	2.76	-15.57	-11.84	-307.78	-711.67	-704.09	-315.36	-54.82
1	34	528	8.11	-3.21	-2.93	7.82	-1.78	342.01	-1281.10	-1280.60	341.50	28.51
1	34	529	12.77	-7.75	-3.82	8.84	-8.08	23.22	-289.87	-285.81	19.15	35.45
1	34	530	8.29	-16.90	4.75	-13.36	8.76	-278.36	-451.40	-435.27	-294.48	50.31
1	34	531	6.69	-0.59	2.38	3.72	-3.58	419.66	-29.54	369.85	20.27	-141.04
1	34	532	5.34e-02	-4.39	-4.31	-2.38e-02	-0.58	654.07	-11.63	654.06	-11.61	3.50
1	34	533	-0.24	-5.08	-5.07	-0.25	0.19	637.77	-26.66	624.50	-13.39	92.95
1	34	534	4.07	-2.61	-1.86	3.31	2.12	339.45	-85.48	233.60	20.37	183.78
1	34	535	2.25	-26.12	-5.26	-18.61	-12.52	-307.67	-745.35	-726.49	-326.52	-88.87
1	34	536	12.98	-2.38	7.09	3.52	-7.47	226.98	-937.77	-937.67	226.88	10.70
1	34	537	15.39	7.79	15.39	7.79	0.11	18.76	-1002.89	-1002.47	18.35	-20.54
1	34	538	7.87	-1.51	6.73	-0.36	-3.07	67.20	-148.25	-72.44	-8.61	-102.89
1	34	539	-3.24	-10.91	-5.71	-8.44	3.58	-18.07	-188.81	-132.58	-74.30	80.24
1	34	540	-1.98	-9.84	-7.91	-3.91	-3.38	-24.67	-190.10	-135.36	-79.42	-77.85
1	37	1	7.03	-3.22	3.48	0.34	4.88	-520.65	-960.64	-883.82	-597.47	167.03
1	37	3	2.67	-0.74	1.22	0.71	-1.69	-425.19	-901.12	-801.21	-525.10	-193.82
1	37	6	3.65	-16.17	-8.36	-4.15	9.69	-1222.21	-2267.87	-2251.73	-1238.36	-128.92
1	37	9	6.27	-10.49	-4.55	0.32	-8.01	-1098.40	-2261.79	-2255.47	-1104.72	85.50
1	37	11	5.14	-19.23	-11.52	-2.56	11.33	-1014.16	-1645.56	-1640.05	-1019.67	-58.71
1	37	13	8.63	-13.36	-5.60	0.86	-10.51	-885.92	-1724.69	-1723.04	-887.57	37.20
1	37	15	4.35	-1.90	2.83	-0.37	2.68	-1229.17	-1757.32	-1756.81	-1229.68	16.37
1	37	17	3.80	-3.27	3.73	-3.20	-0.73	-1042.57	-1775.69	-1773.55	-1044.71	-39.55
1	37	19	3.96	-3.59	-0.83	1.20	3.64	-337.78	-874.32	-512.71	-699.39	-251.51
1	37	21	1.86	-3.88	-1.53	-0.50	-2.82	-282.30	-772.84	-546.62	-508.52	244.53
1	37	22	8.12	-5.34	-0.37	3.15	6.49	408.09	-454.10	-139.32	93.31	-415.11
1	37	23	7.07	2.63	4.36	5.33	2.17	840.93	89.46	585.23	345.16	-356.05
1	37	24	8.88	-7.24	-6.81	8.45	2.59	867.04	132.61	799.80	199.86	-211.81
1	37	25	3.04	1.53	2.99	1.58	-0.26	869.37	381.00	814.37	436.00	-154.39
1	37	26	0.39	-1.63	-1.48	0.24	-0.53	874.69	160.58	841.63	193.64	-150.05
1	37	27	1.81	-0.75	0.76	0.30	-1.26	797.76	448.94	797.60	449.10	-7.48
1	37	28	1.18	-0.27	0.94	-2.94e-02	-0.54	883.44	225.84	883.42	225.86	3.22
1	37	29	1.42	-0.90	-4.79e-03	0.53	-1.13	711.31	351.01	638.58	423.74	144.62
1	37	30	-0.10	-0.74	-0.74	-0.10	-7.99e-03	730.34	148.01	686.45	191.90	153.73
1	37	31	2.35	-0.68	0.92	0.74	-1.51	529.30	88.06	273.56	343.80	217.81
1	37	32	-1.10	-3.25	-3.18	-1.18	-0.38	359.13	-79.11	222.02	58.00	203.20
1	37	33	-3.65	-9.48	-9.01	-4.11	1.58	272.08	-563.33	-396.94	105.69	333.65
1	37	34	19.40	-10.85	19.09	-10.53	3.08	-244.24	-485.28	-452.23	-277.29	82.92
1	37	35	9.86	-5.94	8.94	-5.03	3.68	353.52	-899.80	-876.17	329.89	-170.45
1	37	36	5.09	-21.83	-16.84	9.20e-02	-10.47	-398.22	-833.59	-687.06	-544.75	205.73
1	37	37	2.98	-6.67	-5.46	1.77	3.19	402.92	-105.17	184.62	113.14	251.52
1	37	38	7.19	1.64	3.15	5.67	2.47	540.80	-94.96	159.90	285.93	-311.57
1	37	39	3.63	-3.73	-2.96	2.86	-2.25	416.57	38.71	367.03	88.25	-127.54
1	37	40	2.66	1.46	1.63	2.49	0.42	578.25	325.08	486.31	417.01	-121.75
1	37	41	7.87e-02	-5.11	-4.46	-0.57	-1.71	490.25	78.33	439.21	129.37	-135.72

1	37	42	1.65	-1.42	-0.45	0.69	-1.42	558.78	429.45	555.19	433.03	-21.23
1	37	43	1.17	-1.51	-0.46	0.12	-1.31	625.83	201.18	624.05	202.95	-27.39
1	37	44	1.26	-1.62	-0.60	0.24	-1.38	534.65	344.19	464.86	413.99	91.77
1	37	45	-2.83e-02	-2.31	-2.14	-0.21	-0.61	525.36	158.29	499.78	183.87	93.46
1	37	46	0.54	-0.93	7.83e-02	-0.47	-0.68	442.77	44.42	144.97	342.22	173.04
1	37	47	-0.73	-3.21	-2.22	-1.71	-1.22	231.45	-59.34	104.78	67.33	144.18
1	37	48	-3.77	-10.72	-8.23	-6.26	3.34	266.92	-534.23	-435.45	168.14	263.40
1	37	49	21.80	-10.79	21.56	-10.56	2.76	-326.99	-555.90	-555.90	-326.99	5.88e-02
1	37	50	21.28	4.83	19.26	6.85	5.40	391.56	-593.33	-583.90	382.12	-95.94
1	37	51	14.24	1.80	13.39	2.66	3.15	509.39	-566.76	-444.93	387.56	-340.98
1	37	52	4.98	-32.06	-29.58	2.51	9.25	-336.65	-616.33	-336.70	-616.28	-3.80
1	37	53	6.49	5.36	5.82	6.03	0.56	540.25	68.07	272.91	335.41	-234.02
1	37	54	1.91	-10.24	-9.85	1.52	-2.13	352.28	-9.87	279.37	63.05	-145.22
1	37	55	2.48	-1.34	-0.34	1.48	-1.68	524.00	314.18	428.11	410.07	-104.52
1	37	56	1.62	-1.81	-0.49	0.30	-1.67	518.87	152.56	487.28	184.15	-102.83
1	37	57	1.24	-1.70	-0.74	0.28	-1.38	479.62	400.81	456.40	424.03	35.93
1	37	58	0.36	-1.81	-1.48	3.36e-02	-0.78	518.88	201.38	515.09	205.18	34.50
1	37	59	0.96	-2.02	-1.23	0.18	-1.32	481.00	190.97	278.57	393.40	133.16
1	37	60	-0.19	-2.94	-2.88	-0.24	-0.39	389.46	81.11	304.01	166.56	138.01
1	37	61	-0.24	-1.24	-1.03	-0.45	-0.41	380.09	-208.73	-132.04	303.40	198.18
1	37	62	-1.43	-2.81	-2.03	-2.21	-0.68	111.89	-285.94	-199.54	25.48	164.04
1	37	63	-4.41	-10.10	-7.19	-7.33	2.85	197.25	-859.24	-787.99	126.00	264.95
1	37	64	25.25	-12.94	24.82	-12.52	4.02	-502.54	-971.80	-970.59	-503.75	-23.81
1	37	65	27.82	-0.13	25.80	1.89	7.23	421.88	-854.59	-832.81	400.10	-165.30
1	37	66	16.86	1.00	14.56	3.30	5.58	540.88	-840.73	-662.12	362.27	-463.53
1	37	67	4.07	-23.95	-22.20	2.31	6.79	-537.52	-703.45	-611.79	-629.18	-82.51
1	37	68	5.63	4.18	4.32	5.49	0.42	555.46	-216.60	31.62	307.25	-360.59
1	37	69	0.67	-9.68	-9.32	0.31	-1.90	312.59	-288.34	-9.58	33.84	-299.68
1	37	70	2.06	-1.49	-0.84	1.41	-1.37	604.43	74.96	290.52	388.87	-260.13
1	37	71	1.28	-2.01	-0.98	0.25	-1.52	538.47	-26.23	341.71	170.53	-269.06
1	37	72	0.80	-1.70	-1.15	0.24	-1.04	548.43	275.39	418.83	404.99	-136.34
1	37	73	0.20	-2.25	-2.06	1.51e-02	-0.65	545.55	137.79	482.47	200.87	-147.46
1	37	74	0.28	-1.83	-1.56	2.07e-02	-0.70	390.89	367.42	372.66	385.65	-9.77
1	37	75	-0.11	-3.19	-3.14	-0.16	-0.39	418.76	182.80	418.40	183.16	-9.19
1	37	76	4.21e-02	-3.21	-2.68	-0.48	1.19	368.83	74.95	123.29	320.48	108.95
1	37	77	0.29	-0.54	-5.38e-02	-0.19	-0.41	201.16	57.46	149.00	109.61	69.10
1	37	78	-1.92	-10.16	-7.04	-5.03	4.00	232.78	-359.80	-297.60	170.58	181.63
1	37	79	15.77	-7.24	15.76	-7.24	0.25	-228.70	-414.96	-399.54	-244.13	51.33
1	37	80	7.62	-1.26	6.05	0.31	3.38	341.24	-271.92	-268.09	337.40	-48.35
1	37	81	4.56	1.78	2.74	3.59	-1.32	1034.23	-68.52	148.25	817.45	-438.24
1	37	82	2.50	-2.88	0.47	-0.85	-2.61	991.50	182.82	409.98	764.34	-363.45
1	37	83	3.31	-9.05e-02	1.56	1.66	-1.70	935.30	535.29	649.52	821.08	-180.67
1	37	84	2.26	-0.85	0.90	0.51	-1.54	822.00	683.17	684.08	821.09	-11.23
1	37	85	1.74	-0.74	0.65	0.35	-1.23	879.43	497.64	553.43	823.64	134.86
1	37	86	1.19	-0.14	-0.13	1.18	-7.94e-02	927.17	206.50	283.21	850.46	222.26
1	37	87	3.18	-0.60	-0.51	3.09	-0.59	927.80	-61.25	-24.57	891.11	186.91
1	37	88	8.92	2.47	5.68	5.70	-3.22	1013.26	-108.41	-102.28	1007.13	-82.69
1	37	89	1.82	-2.07	-1.00	0.75	1.73	568.18	140.76	485.88	223.06	168.53
1	37	90	2.09	-1.82	-0.31	0.58	-1.90	916.67	39.54	104.67	851.54	-229.97
1	37	91	4.42	-8.39e-02	1.56	2.78	-2.17	898.65	359.26	398.78	859.13	-140.55
1	37	92	2.27	-0.84	0.64	0.79	-1.55	832.60	477.46	478.79	831.28	-21.66
1	37	93	1.51	-0.65	0.61	0.25	-1.07	843.12	378.83	397.65	824.30	91.56
1	37	94	0.94	-0.16	3.19e-02	0.75	0.41	887.58	144.11	182.38	849.32	164.27
1	37	95	5.39	0.32	0.50	5.21	0.93	924.85	-53.37	-39.36	910.84	116.22
1	37	96	10.14	-3.77	-1.14	7.51	-5.44	970.70	-112.05	-102.82	961.47	-99.54
1	37	97	5.74	-5.91	-1.00	0.82	-5.75	929.07	-104.28	-78.75	903.54	-160.41
1	37	98	2.60	-0.66	0.34	1.60	-1.50	909.74	77.49	119.19	868.04	-181.57
1	37	99	2.77	-0.54	0.97	1.26	-1.65	838.84	341.57	360.51	819.90	-95.18
1	37	100	1.95	-0.96	0.52	0.46	-1.45	811.35	372.56	374.33	809.57	27.86
1	37	101	1.27	-0.63	0.55	9.22e-02	-0.93	840.83	198.61	230.11	809.33	138.70
1	37	102	1.05	-0.20	0.12	0.72	0.55	873.72	-82.49	-46.26	837.48	182.57
1	37	103	6.41	0.29	0.77	5.93	1.64	932.95	-304.94	-300.18	928.19	76.59
1	37	104	11.80	-2.63	-0.99	10.16	-4.57	1010.57	-354.06	-336.80	993.31	-152.51
1	37	105	6.34	-5.91	-0.91	1.33	-6.02	959.22	-370.89	-321.21	909.53	-252.23
1	37	106	3.03	-0.18	0.76	2.10	-1.46	938.54	-149.32	-57.95	847.17	-301.74
1	37	107	2.44	-0.47	0.77	1.20	-1.44	866.37	151.88	236.25	782.00	-230.57
1	37	108	1.48	-0.80	0.20	0.48	-1.13	790.18	302.41	332.30	760.29	-116.98
1	37	109	0.69	-0.42	6.65e-02	0.20	-0.55	746.61	290.28	290.42	746.47	-8.13
1	37	110	0.86	-0.49	-0.25	0.61	0.52	761.41	134.76	147.12	749.05	87.14
1	37	111	5.16	0.20	0.29	5.07	0.66	822.17	-22.93	-13.03	812.28	90.91
1	37	112	4.66	-0.26	0.17	4.24	-1.39	834.97	-58.91	-54.90	830.96	59.71
1	37	113	0.96	-0.49	7.70e-02	0.39	-0.70	1354.17	43.66	151.11	1246.73	-359.53
1	37	114	2.02	-0.68	0.38	0.96	-1.32	1286.86	281.97	371.31	1197.53	-285.99
1	37	115	2.28	-0.85	0.51	0.92	-1.55	1204.80	494.15	532.86	1166.09	-161.29
1	37	116	2.16	-0.61	0.76	0.79	-1.39	1169.15	578.84	580.16	1167.82	-27.95
1	37	117	1.73	-0.27	0.75	0.72	-1.00	1198.82	494.78	504.30	1189.30	81.32

1	37	118	1.88	0.26	0.56	1.58	-0.63	1255.00	330.25	347.48	1237.77	125.08
1	37	119	2.70	9.07e-02	0.36	2.43	-0.79	1300.46	185.30	191.12	1294.64	80.34
1	37	120	3.80	0.32	0.98	3.15	-1.36	1307.25	147.01	147.34	1306.93	-19.39
1	37	121	0.44	-1.54	-1.30	0.20	0.65	562.33	241.80	561.43	242.70	16.98
1	37	122	3.80	-0.37	0.69	2.74	-1.82	1274.86	226.94	238.67	1263.13	-110.24
1	37	123	3.32	-0.67	0.74	1.92	-1.91	1217.04	360.74	369.91	1207.86	-88.17
1	37	124	2.64	-0.36	1.07	1.20	-1.50	1190.62	425.26	425.56	1190.32	-15.20
1	37	125	1.78	6.55e-02	0.98	0.87	-0.86	1200.13	371.74	375.94	1195.92	58.85
1	37	126	1.88	0.75	0.81	1.83	-0.25	1241.60	252.10	259.91	1233.80	87.54
1	37	127	3.03	-8.41e-02	3.82e-02	2.91	-0.60	1273.86	149.45	150.99	1272.32	41.62
1	37	128	3.65	0.20	0.53	3.32	-1.01	1276.36	126.20	127.02	1275.54	-30.65
1	37	129	4.16	-0.64	0.15	3.38	-1.78	1276.98	137.64	140.70	1273.91	-58.97
1	37	130	3.75	-0.65	0.74	2.35	-2.05	1231.61	206.25	216.31	1221.55	-101.06
1	37	131	2.75	-0.67	0.90	1.18	-1.71	1183.46	310.50	314.86	1179.11	-61.51
1	37	132	2.22	-0.34	1.15	0.73	-1.26	1165.16	325.07	325.50	1164.72	19.15
1	37	133	1.48	0.26	1.08	0.66	-0.58	1187.53	220.38	227.73	1180.18	83.98
1	37	134	1.96	0.84	0.86	1.94	0.16	1236.02	67.38	73.81	1229.59	86.41
1	37	135	3.67	-0.16	-0.15	3.66	-0.19	1263.11	-52.52	-52.48	1263.06	7.76
1	37	136	4.39	0.43	0.61	4.21	-0.83	1269.79	-64.14	-59.40	1265.04	-79.42
1	37	137	4.95	-0.77	-1.68e-03	4.18	-1.95	1268.28	-61.40	-48.54	1255.42	-130.12
1	37	138	3.99	-0.62	0.80	2.57	-2.12	1220.12	25.61	58.89	1186.85	-196.58
1	37	139	2.72	-0.51	0.92	1.29	-1.60	1153.80	170.68	202.47	1122.01	-173.90
1	37	140	1.94	-0.23	0.91	0.79	-1.09	1094.48	260.83	271.72	1083.58	-94.67
1	37	141	1.21	0.34	0.81	0.75	-0.43	1074.26	246.51	246.89	1073.88	-17.67
1	37	142	1.58	0.50	0.55	1.53	0.23	1092.97	157.44	159.21	1091.20	40.67
1	37	143	2.94	-9.31e-02	-2.45e-02	2.88	0.45	1114.82	46.28	49.20	1111.90	55.85
1	37	144	4.03	-7.54e-02	-7.46e-02	4.03	5.72e-02	1135.08	11.91	18.56	1128.43	86.13
1	37	145	0.27	-0.52	-0.11	-0.14	-0.39	1618.67	94.87	145.42	1568.13	-272.88
1	37	146	1.11	-0.60	-3.08e-02	0.54	-0.81	1534.69	290.04	327.62	1497.11	-212.98
1	37	147	1.60	-0.53	0.22	0.85	-1.02	1473.33	442.50	458.61	1457.22	-127.83
1	37	148	1.69	-0.36	0.43	0.90	-0.99	1448.32	508.00	509.46	1446.86	-37.06
1	37	149	1.66	-1.88e-02	0.54	1.10	-0.79	1467.49	479.21	480.38	1466.32	34.00
1	37	150	1.83	0.19	0.46	1.55	-0.61	1507.79	396.75	400.19	1504.36	61.67
1	37	151	2.41	0.13	0.35	2.19	-0.67	1539.77	319.92	321.15	1538.54	38.66
1	37	152	2.92	3.87e-03	0.37	2.56	-0.96	1544.39	290.22	290.31	1544.30	-10.41
1	37	153	-0.15	-1.92	-1.92	-0.16	7.39e-02	471.20	119.06	379.84	210.42	-154.35
1	37	154	3.14	-0.19	0.48	2.46	-1.34	1518.94	318.96	321.58	1516.32	-56.04
1	37	155	2.94	-0.21	0.72	2.01	-1.44	1485.66	377.56	379.76	1483.46	-49.23
1	37	156	2.46	-4.01e-02	0.91	1.51	-1.21	1463.80	406.20	406.33	1463.68	-11.53
1	37	157	2.03	0.35	0.95	1.42	-0.81	1471.47	381.65	382.39	1470.74	28.28
1	37	158	1.99	0.53	0.73	1.78	-0.51	1496.18	321.52	323.00	1494.70	41.68
1	37	159	2.56	0.20	0.40	2.36	-0.66	1514.26	267.36	267.50	1514.12	13.20
1	37	160	2.93	8.87e-02	0.43	2.59	-0.93	1511.44	254.47	254.68	1511.23	-16.31
1	37	161	3.03	-0.31	0.25	2.47	-1.25	1507.64	253.36	254.12	1506.88	-30.96
1	37	162	3.02	-0.16	0.71	2.14	-1.42	1478.51	272.00	274.59	1475.92	-55.86
1	37	163	2.58	-0.16	0.91	1.50	-1.34	1447.25	308.45	309.56	1446.14	-35.59
1	37	164	2.08	7.66e-02	1.06	1.10	-1.00	1435.91	305.92	306.00	1435.83	9.74
1	37	165	1.68	0.63	1.08	1.23	-0.52	1451.71	247.58	248.96	1450.33	40.70
1	37	166	1.95	0.72	0.74	1.92	-0.18	1476.26	162.23	163.17	1475.32	35.08
1	37	167	2.90	0.29	0.35	2.84	-0.40	1489.14	97.92	98.02	1489.04	-11.99
1	37	168	3.23	0.16	0.35	3.04	-0.74	1481.41	88.00	90.28	1479.13	-56.38
1	37	169	3.41	-0.20	0.19	3.02	-1.13	1475.21	86.75	92.15	1469.81	-86.40
1	37	170	3.23	-0.13	0.63	2.47	-1.41	1432.67	123.24	135.30	1420.62	-125.05
1	37	171	2.61	-8.82e-02	0.89	1.63	-1.30	1379.48	191.65	204.40	1366.73	-122.39
1	37	172	1.99	0.19	1.03	1.15	-0.90	1334.81	236.10	241.33	1329.58	-75.62
1	37	173	1.46	0.71	0.98	1.19	-0.36	1317.18	224.26	224.92	1316.52	-26.92
1	37	174	1.73	0.70	0.70	1.72	8.78e-02	1321.93	164.96	165.05	1321.84	10.26
1	37	175	2.78	0.43	0.44	2.76	0.19	1334.29	80.49	81.21	1333.57	30.01
1	37	176	3.30	0.17	0.18	3.29	0.18	1343.25	37.28	40.10	1340.43	60.59
1	37	177	-4.63e-02	-0.53	-0.15	-0.43	-0.20	1793.00	116.43	135.79	1773.63	-179.12
1	37	178	0.58	-0.38	-0.12	0.33	-0.42	1718.66	285.44	299.55	1704.54	-141.55
1	37	179	1.06	-0.27	3.57e-02	0.75	-0.56	1668.67	408.46	414.85	1662.27	-89.55
1	37	180	1.31	-8.86e-02	0.22	1.00	-0.58	1647.26	468.90	470.01	1646.15	-36.17
1	37	181	1.48	9.13e-02	0.33	1.25	-0.52	1655.00	468.85	468.88	1654.97	6.04
1	37	182	1.77	0.17	0.32	1.62	-0.47	1678.14	430.93	431.40	1677.67	24.06
1	37	183	2.18	0.12	0.27	2.03	-0.52	1697.47	388.88	389.07	1697.28	15.72
1	37	184	2.49	6.41e-02	0.27	2.28	-0.68	1701.50	367.50	367.52	1701.48	-4.76
1	37	185	0.84	-3.45	0.73	-3.34	0.69	227.88	-217.17	-80.15	90.86	-205.44
1	37	186	2.64	3.30e-02	0.40	2.27	-0.91	1686.89	374.02	374.57	1686.34	-26.94
1	37	187	2.53	9.39e-02	0.61	2.01	-0.99	1665.65	396.41	396.88	1665.18	-24.41
1	37	188	2.28	0.25	0.78	1.75	-0.89	1651.98	406.84	406.88	1651.93	-7.61
1	37	189	2.05	0.41	0.80	1.66	-0.69	1653.56	392.45	392.56	1653.45	11.58
1	37	190	2.07	0.47	0.70	1.84	-0.55	1664.33	360.19	360.46	1664.06	18.63
1	37	191	2.32	0.33	0.55	2.10	-0.62	1671.26	329.00	329.04	1671.22	7.65
1	37	192	2.43	0.29	0.56	2.15	-0.72	1667.69	318.23	318.35	1667.57	-12.73
1	37	193	2.51	0.20	0.55	2.16	-0.83	1665.49	313.78	313.94	1665.33	-14.62

1	37	194	2.46	0.19	0.71	1.94	-0.96	1647.55	313.96	314.51	1647.00	-27.02
1	37	195	2.23	0.26	0.89	1.60	-0.92	1627.26	319.84	320.07	1627.03	-17.31
1	37	196	1.97	0.42	0.99	1.39	-0.75	1618.42	308.05	308.06	1618.41	3.74
1	37	197	1.80	0.65	0.95	1.50	-0.51	1623.22	270.38	270.58	1623.02	16.46
1	37	198	2.02	0.63	0.72	1.93	-0.34	1632.73	218.95	219.04	1632.64	11.03
1	37	199	2.49	0.39	0.49	2.38	-0.45	1633.03	180.17	180.31	1632.89	-14.21
1	37	200	2.65	0.29	0.45	2.50	-0.58	1621.91	171.53	172.43	1621.02	-36.01
1	37	201	2.72	0.24	0.45	2.52	-0.68	1614.74	168.98	170.73	1612.99	-50.26
1	37	202	2.61	0.24	0.62	2.22	-0.87	1578.41	182.57	186.64	1574.34	-75.27
1	37	203	2.27	0.35	0.86	1.76	-0.85	1534.10	212.50	216.98	1529.61	-76.87
1	37	204	1.88	0.57	1.00	1.44	-0.62	1496.85	229.26	231.56	1494.56	-53.87
1	37	205	1.59	0.85	0.97	1.47	-0.27	1476.63	213.42	214.07	1475.98	-28.58
1	37	206	1.91	0.77	0.77	1.91	-1.72e-03	1472.22	164.75	164.78	1472.19	-6.69
1	37	207	2.63	0.49	0.49	2.62	0.11	1477.26	89.82	89.87	1477.21	8.15
1	37	208	3.11	0.23	0.24	3.11	0.17	1486.88	46.85	47.53	1486.20	31.19
1	37	209	-0.14	-0.49	-0.14	-0.49	-4.07e-02	1895.70	124.78	129.46	1891.02	-90.97
1	37	210	0.30	-0.17	-0.14	0.28	-0.10	1828.05	280.67	284.32	1824.40	-75.07
1	37	211	0.78	-5.37e-02	-2.13e-02	0.74	-0.16	1784.59	391.68	393.57	1782.70	-51.28
1	37	212	1.09	9.44e-02	0.14	1.04	-0.20	1764.15	451.07	451.65	1763.57	-27.68
1	37	213	1.37	0.19	0.24	1.32	-0.24	1765.08	464.24	464.28	1765.03	-7.89
1	37	214	1.71	0.21	0.26	1.65	-0.28	1778.17	446.76	446.76	1778.17	1.86
1	37	215	2.05	0.18	0.24	1.98	-0.34	1790.97	421.45	421.45	1790.97	1.32
1	37	216	2.27	0.18	0.27	2.19	-0.41	1793.88	404.48	404.49	1793.87	-4.35
1	37	217	16.45	-6.06	16.44	-6.05	0.52	-315.27	-826.56	-814.81	-327.02	-76.62
1	37	218	2.34	0.24	0.39	2.20	-0.53	1784.80	402.10	402.19	1784.72	-10.66
1	37	219	2.26	0.35	0.57	2.04	-0.61	1770.80	409.74	409.82	1770.72	-10.45
1	37	220	2.11	0.46	0.71	1.86	-0.59	1760.23	412.20	412.20	1760.22	-3.05
1	37	221	2.04	0.51	0.74	1.81	-0.54	1757.98	401.71	401.72	1757.96	4.55
1	37	222	2.08	0.48	0.66	1.90	-0.50	1761.19	380.00	380.05	1761.15	7.81
1	37	223	2.19	0.43	0.59	2.03	-0.51	1762.98	358.86	358.88	1762.96	5.13
1	37	224	2.21	0.42	0.59	2.04	-0.53	1759.46	349.92	349.92	1759.46	0.59
1	37	225	2.21	0.42	0.61	2.02	-0.55	1756.91	343.55	343.55	1756.91	-0.56
1	37	226	2.12	0.48	0.73	1.87	-0.59	1743.93	335.78	335.79	1743.92	-4.20
1	37	227	1.96	0.57	0.88	1.65	-0.58	1729.81	330.31	330.31	1729.81	-2.58
1	37	228	1.86	0.62	0.95	1.53	-0.55	1721.42	314.92	314.92	1721.41	1.92
1	37	229	1.87	0.66	0.89	1.64	-0.48	1720.47	285.64	285.66	1720.45	5.07
1	37	230	2.05	0.60	0.72	1.93	-0.40	1721.37	249.32	249.32	1721.36	2.00
1	37	231	2.32	0.46	0.56	2.22	-0.42	1714.76	221.97	222.03	1714.70	-9.54
1	37	232	2.39	0.43	0.53	2.29	-0.42	1702.18	214.68	214.91	1701.96	-18.33
1	37	233	2.38	0.45	0.53	2.30	-0.39	1694.14	210.47	210.79	1693.81	-21.94
1	37	234	2.26	0.53	0.67	2.12	-0.47	1660.85	214.37	215.42	1659.80	-39.03
1	37	235	1.99	0.67	0.86	1.80	-0.46	1621.64	227.86	228.97	1620.53	-39.33
1	37	236	1.74	0.83	0.98	1.59	-0.33	1587.36	230.93	231.70	1586.59	-32.32
1	37	237	1.68	0.91	0.94	1.65	-0.16	1565.41	211.18	211.63	1564.96	-24.66
1	37	238	2.01	0.75	0.75	2.01	-3.27e-02	1557.12	165.07	165.28	1556.90	-17.30
1	37	239	2.61	0.50	0.50	2.61	3.74e-02	1559.79	93.70	93.80	1559.69	-12.07
1	37	240	3.00	0.24	0.24	3.00	7.42e-02	1568.51	50.30	50.30	1568.51	-1.33
1	37	241	-0.11	-0.36	-0.14	-0.33	8.85e-02	1931.34	128.39	128.48	1931.24	13.17
1	37	242	0.47	-0.19	-0.13	0.41	0.19	1864.89	281.72	281.72	1864.89	-1.52
1	37	243	0.90	-5.39e-02	5.37e-03	0.84	0.23	1823.39	389.56	389.71	1823.25	-14.58
1	37	244	1.12	0.15	0.18	1.09	0.18	1803.46	448.03	448.23	1803.27	-16.30
1	37	245	1.34	0.29	0.30	1.34	6.21e-02	1802.99	463.39	463.57	1802.81	-15.37
1	37	246	1.67	0.32	0.32	1.67	-4.46e-02	1813.69	450.23	450.35	1813.56	-13.05
1	37	247	2.02	0.29	0.29	2.02	-7.16e-02	1824.48	428.74	428.79	1824.43	-8.30
1	37	248	2.24	0.31	0.31	2.24	-3.12e-02	1826.98	413.06	413.06	1826.97	-1.70
1	37	249	3.98	-16.40	-12.90	0.47	-7.69	-470.50	-992.56	-886.67	-576.39	209.92
1	37	250	2.26	0.43	0.43	2.26	-3.15e-03	1818.98	409.14	409.15	1818.97	2.87
1	37	251	2.10	0.60	0.60	2.10	-3.78e-02	1806.29	414.13	414.14	1806.28	4.08
1	37	252	1.92	0.73	0.74	1.92	-9.10e-02	1795.96	415.11	415.12	1795.95	4.29
1	37	253	1.89	0.73	0.75	1.87	-0.14	1792.26	405.42	405.43	1792.25	3.57
1	37	254	1.99	0.66	0.67	1.98	-0.14	1793.29	386.31	386.31	1793.28	2.95
1	37	255	2.12	0.58	0.60	2.10	-0.16	1793.52	367.09	367.12	1793.49	6.28
1	37	256	2.10	0.60	0.61	2.10	-9.55e-02	1789.73	358.53	358.61	1789.65	10.43
1	37	257	2.08	0.63	0.63	2.08	1.78e-02	1787.25	351.39	351.47	1787.17	10.83
1	37	258	1.91	0.75	0.76	1.91	3.40e-02	1775.00	342.29	342.33	1774.97	6.68
1	37	259	1.67	0.91	0.91	1.67	-5.90e-03	1761.51	334.97	335.00	1761.48	6.91
1	37	260	1.59	0.95	0.98	1.57	-0.11	1752.52	319.29	319.31	1752.51	4.53
1	37	261	1.73	0.86	0.91	1.69	-0.20	1749.68	291.86	291.86	1749.68	2.19
1	37	262	2.02	0.71	0.74	1.99	-0.19	1748.26	258.65	258.65	1748.26	1.60
1	37	263	2.26	0.58	0.59	2.25	-0.14	1739.71	233.76	233.77	1739.71	2.64
1	37	264	2.33	0.56	0.56	2.33	-5.76e-02	1726.78	226.88	226.89	1726.77	4.00
1	37	265	2.33	0.57	0.57	2.33	-1.08e-03	1718.65	222.32	222.33	1718.64	2.61
1	37	266	2.14	0.70	0.70	2.14	6.44e-04	1685.22	224.91	224.93	1685.20	-5.15
1	37	267	1.84	0.88	0.89	1.83	-3.79e-02	1646.45	235.35	235.38	1646.42	-6.47
1	37	268	1.64	0.99	0.99	1.64	-4.88e-02	1612.18	236.19	236.27	1612.09	-10.58
1	37	269	1.70	0.94	0.95	1.70	-5.15e-02	1589.61	215.20	215.47	1589.34	-19.42

1	37	270	2.05	0.75	0.75	2.05	-5.74e-02	1580.87	168.63	169.20	1580.29	-28.51
1	37	271	2.61	0.49	0.49	2.61	-4.15e-02	1583.12	97.26	97.36	1583.03	-11.87
1	37	272	2.97	0.24	0.24	2.97	-2.53e-02	1592.53	52.21	52.38	1592.36	-16.23
1	37	273	0.20	-0.27	-0.14	6.04e-02	0.21	1901.65	127.55	133.29	1895.91	100.80
1	37	274	0.99	-0.32	-8.81e-02	0.76	0.50	1830.94	288.19	291.98	1827.14	76.42
1	37	275	1.37	-0.23	0.12	1.02	0.66	1786.15	401.06	402.79	1784.42	48.94
1	37	276	1.42	4.69e-02	0.36	1.12	0.57	1765.75	458.99	459.15	1765.60	14.25
1	37	277	1.43	0.36	0.49	1.29	0.35	1768.88	466.44	466.70	1768.62	-18.37
1	37	278	1.69	0.47	0.49	1.67	0.15	1784.18	442.56	442.94	1783.80	-22.65
1	37	279	2.15	0.40	0.41	2.14	0.13	1798.12	413.13	413.24	1798.01	-12.33
1	37	280	2.47	0.36	0.39	2.44	0.26	1800.89	395.51	395.51	1800.89	1.35
1	37	281	1.36	-5.68	-4.80	0.48	2.32	371.26	-346.40	-44.23	69.10	354.33
1	37	282	2.55	0.42	0.51	2.46	0.43	1790.06	395.84	396.02	1789.88	16.02
1	37	283	2.30	0.59	0.72	2.17	0.44	1773.07	407.88	408.13	1772.82	18.37
1	37	284	1.98	0.79	0.87	1.90	0.30	1760.24	413.45	413.53	1760.16	10.78
1	37	285	1.88	0.84	0.86	1.87	0.11	1757.03	403.11	403.12	1757.03	1.17
1	37	286	2.09	0.70	0.71	2.09	5.40e-02	1760.43	379.30	379.30	1760.43	-0.99
1	37	287	2.35	0.55	0.56	2.34	0.13	1762.75	355.18	355.20	1762.73	4.55
1	37	288	2.40	0.51	0.56	2.35	0.31	1758.92	345.09	345.26	1758.75	15.39
1	37	289	2.46	0.45	0.58	2.33	0.50	1756.34	338.84	339.14	1756.04	20.76
1	37	290	2.25	0.55	0.76	2.03	0.57	1740.89	333.55	333.65	1740.79	11.82
1	37	291	1.90	0.74	0.98	1.67	0.46	1723.33	332.17	332.37	1723.13	16.62
1	37	292	1.59	0.98	1.07	1.50	0.22	1712.43	319.16	319.19	1712.40	6.26
1	37	293	1.65	0.98	0.98	1.65	-2.28e-02	1711.40	287.88	287.88	1711.39	-2.85
1	37	294	2.10	0.75	0.76	2.09	-0.11	1713.68	247.38	247.38	1713.67	-1.28
1	37	295	2.50	0.55	0.55	2.50	3.85e-02	1708.55	216.74	216.84	1708.45	12.21
1	37	296	2.63	0.51	0.53	2.61	0.22	1696.44	209.59	210.03	1696.00	25.69
1	37	297	2.66	0.48	0.54	2.60	0.35	1688.15	205.80	206.29	1687.66	26.88
1	37	298	2.42	0.59	0.72	2.29	0.48	1652.39	214.23	215.27	1651.34	38.68
1	37	299	1.99	0.79	0.95	1.84	0.40	1608.93	235.17	235.88	1608.23	31.12
1	37	300	1.65	0.97	1.05	1.57	0.22	1571.60	244.35	244.61	1571.34	18.56
1	37	301	1.63	0.99	0.99	1.62	3.71e-02	1548.86	226.14	226.25	1548.76	11.79
1	37	302	2.04	0.75	0.76	2.03	-0.11	1541.72	177.64	177.78	1541.58	-13.79
1	37	303	2.65	0.47	0.48	2.65	-0.13	1547.38	101.36	102.12	1546.62	-33.26
1	37	304	3.03	0.22	0.23	3.03	-0.12	1559.00	53.05	54.76	1557.29	-50.72
1	37	305	0.91	-0.25	-9.07e-02	0.75	0.40	1800.17	122.26	143.53	1778.90	187.72
1	37	306	1.79	-0.45	4.69e-02	1.29	0.93	1718.92	301.53	315.17	1705.28	138.38
1	37	307	2.05	-0.41	0.37	1.27	1.14	1666.37	429.10	434.27	1661.21	79.78
1	37	308	1.87	-0.15	0.64	1.09	0.98	1645.04	485.16	485.53	1644.67	20.74
1	37	309	1.62	0.33	0.79	1.16	0.62	1656.33	472.27	473.19	1655.41	-32.92
1	37	310	1.70	0.68	0.75	1.63	0.25	1684.62	419.52	421.47	1682.68	-49.53
1	37	311	2.37	0.60	0.62	2.35	0.17	1707.59	368.24	369.01	1706.83	-31.97
1	37	312	2.89	0.51	0.57	2.83	0.36	1711.48	345.89	345.89	1711.48	1.89
1	37	313	1.44	-2.10	-1.26	0.60	1.50	590.89	-33.10	363.25	194.54	300.38
1	37	314	3.01	0.48	0.68	2.81	0.69	1692.70	359.01	359.88	1691.83	34.09
1	37	315	2.57	0.61	0.92	2.26	0.71	1664.97	392.08	393.08	1663.97	35.63
1	37	316	1.96	0.88	1.07	1.76	0.42	1645.54	410.06	410.27	1645.32	16.38
1	37	317	1.74	1.03	1.03	1.74	5.96e-03	1644.80	395.95	396.00	1644.75	-7.47
1	37	318	2.26	0.70	0.73	2.23	-0.21	1657.05	356.82	357.07	1656.80	-18.06
1	37	319	2.84	0.41	0.42	2.84	7.45e-02	1666.07	318.04	318.04	1666.07	1.17
1	37	320	2.95	0.34	0.42	2.88	0.43	1663.21	305.80	306.14	1662.87	21.50
1	37	321	2.99	0.18	0.37	2.80	0.71	1660.48	303.04	303.40	1660.12	22.31
1	37	322	2.62	0.39	0.77	2.24	0.84	1636.52	305.82	306.45	1635.89	28.79
1	37	323	2.04	0.62	1.06	1.60	0.66	1608.87	323.89	324.56	1608.20	29.28
1	37	324	1.55	0.96	1.19	1.32	0.29	1593.28	318.14	318.16	1593.25	5.63
1	37	325	1.53	1.08	1.12	1.49	-0.13	1597.44	275.28	275.51	1597.22	-17.30
1	37	326	2.30	0.72	0.81	2.21	-0.37	1611.46	213.49	213.67	1611.28	-15.87
1	37	327	3.07	0.46	0.46	3.06	-9.18e-02	1615.93	165.73	165.86	1615.80	13.48
1	37	328	3.22	0.42	0.45	3.19	0.30	1606.07	157.71	158.99	1604.78	43.09
1	37	329	3.32	0.23	0.38	3.17	0.67	1598.30	155.69	157.20	1596.79	46.67
1	37	330	2.94	0.37	0.78	2.53	0.94	1557.10	178.48	182.84	1552.74	77.38
1	37	331	2.27	0.53	1.04	1.76	0.79	1504.33	226.88	231.42	1499.79	76.00
1	37	332	1.72	0.79	1.13	1.38	0.45	1459.56	257.19	259.31	1457.44	50.46
1	37	333	1.45	1.03	1.05	1.43	8.92e-02	1436.54	245.08	245.13	1436.49	8.06
1	37	334	1.97	0.72	0.76	1.94	-0.21	1436.47	189.42	190.40	1435.49	-34.88
1	37	335	2.82	0.43	0.45	2.80	-0.25	1449.03	103.26	106.33	1445.97	-64.17
1	37	336	3.21	0.17	0.18	3.20	-0.18	1463.44	49.65	55.73	1457.37	-92.48
1	37	337	2.06	-0.13	0.23	1.71	0.80	1619.10	101.79	156.74	1564.14	283.49
1	37	338	2.94	-0.34	0.66	1.95	1.51	1529.84	314.91	353.43	1491.31	212.89
1	37	339	2.77	-0.45	0.84	1.47	1.58	1461.68	476.01	490.14	1447.55	117.15
1	37	340	2.27	-0.29	0.94	1.05	1.28	1431.01	535.03	535.30	1430.74	15.63
1	37	341	1.77	6.56e-02	0.93	0.91	0.85	1451.52	481.48	486.96	1446.05	-72.65
1	37	342	1.79	0.80	0.95	1.64	0.36	1502.74	371.20	380.17	1493.78	-100.32
1	37	343	2.66	0.86	0.88	2.64	0.19	1542.92	276.18	279.44	1539.66	-64.18
1	37	344	3.54	1.10	1.25	3.39	0.59	1551.63	249.07	249.11	1551.60	6.80
1	37	345	0.36	-1.79	-1.59	0.15	0.63	605.60	167.77	548.98	224.39	146.92

1	37	346	3.74	0.62	1.04	3.32	1.06	1519.80	289.68	293.99	1515.49	72.72
1	37	347	2.90	0.51	1.10	2.30	1.03	1468.82	369.83	374.40	1464.25	70.71
1	37	348	1.95	0.78	1.22	1.51	0.57	1436.18	414.29	415.01	1435.46	27.08
1	37	349	1.38	1.11	1.11	1.38	-1.70e-02	1437.48	388.98	389.61	1436.84	-25.76
1	37	350	2.55	0.63	0.81	2.37	-0.56	1470.65	313.38	315.30	1468.72	-47.13
1	37	351	3.73	7.70e-02	8.22e-02	3.73	-0.14	1494.24	242.48	242.75	1493.97	-18.47
1	37	352	4.12	0.62	0.73	4.01	0.62	1497.62	225.55	225.95	1497.23	22.35
1	37	353	4.15	-0.11	0.34	3.70	1.31	1490.06	220.42	221.25	1489.23	32.40
1	37	354	3.08	7.44e-02	0.87	2.29	1.33	1456.44	253.86	258.40	1451.90	73.76
1	37	355	2.14	0.34	1.05	1.43	0.88	1407.10	316.41	319.59	1403.93	58.75
1	37	356	1.56	0.58	1.06	1.07	0.49	1378.60	325.25	325.29	1378.57	5.70
1	37	357	1.25	1.08	1.22	1.11	-6.47e-02	1392.99	258.45	260.32	1391.12	-46.12
1	37	358	2.57	0.70	1.01	2.25	-0.70	1435.77	149.37	151.29	1433.85	-49.69
1	37	359	4.03	8.85e-02	0.12	3.99	-0.38	1450.15	64.98	64.99	1450.14	3.21
1	37	360	4.60	0.84	0.90	4.53	0.48	1451.32	57.78	60.05	1449.06	56.16
1	37	361	4.70	-0.16	0.31	4.23	1.44	1440.18	50.72	55.42	1435.48	80.68
1	37	362	3.50	6.05e-02	0.99	2.57	1.53	1393.86	106.34	121.03	1379.18	136.72
1	37	363	2.39	0.30	1.15	1.53	1.03	1323.79	211.79	227.41	1308.17	130.87
1	37	364	1.72	0.49	1.09	1.12	0.62	1263.43	282.78	288.62	1257.60	75.42
1	37	365	1.17	0.90	1.00	1.07	0.13	1238.55	276.02	276.02	1238.54	2.98
1	37	366	1.87	0.63	0.75	1.75	-0.37	1252.86	200.09	203.52	1249.42	-60.06
1	37	367	3.11	0.10	0.23	2.98	-0.60	1276.81	93.78	101.82	1268.77	-97.21
1	37	368	3.89	7.10e-02	8.04e-02	3.88	-0.19	1301.27	38.55	52.29	1287.53	-131.00
1	37	369	4.52	0.70	3.42	1.80	1.73	1358.40	53.77	173.20	1238.97	376.23
1	37	370	4.10	0.13	2.11	2.11	1.99	1279.97	299.27	401.49	1177.75	299.67
1	37	371	3.17	0.55	1.72	2.00	1.30	1183.24	532.14	573.87	1141.51	159.46
1	37	372	2.16	-0.31	0.86	0.99	1.23	1114.33	618.05	618.34	1114.04	12.04
1	37	373	1.45	-0.39	0.26	0.81	0.88	1141.61	498.34	521.82	1118.13	-120.63
1	37	374	1.68	-0.29	-5.19e-02	1.45	0.64	1214.48	273.61	313.80	1174.29	-190.26
1	37	375	4.13	0.68	0.71	4.10	0.32	1288.09	97.50	116.71	1268.88	-150.00
1	37	376	7.00	2.24	5.93	3.30	1.98	1345.28	77.95	78.78	1344.45	32.43
1	37	377	-1.78e-02	-1.88	-1.87	-3.38e-02	0.17	520.84	208.32	520.27	208.88	-13.31
1	37	378	3.72	0.66	1.01	3.37	0.98	1258.65	156.68	183.20	1232.14	168.87
1	37	379	3.05	0.84	1.16	2.73	0.78	1182.04	337.80	360.15	1159.69	135.54
1	37	380	1.74	0.22	0.59	1.37	0.66	1114.03	444.48	447.72	1110.79	46.48
1	37	381	0.97	0.49	0.52	0.94	0.12	1112.98	392.39	397.07	1108.30	-57.87
1	37	382	2.07	0.28	0.60	1.75	-0.69	1173.80	233.09	247.04	1159.85	-113.70
1	37	383	6.47	7.61e-02	0.55	6.00	-1.68	1245.57	107.65	112.75	1240.47	-76.02
1	37	384	9.04	-2.65	-0.95	7.34	4.12	1277.39	57.11	61.21	1273.30	70.56
1	37	385	5.10	-3.44	-8.90e-02	1.75	4.17	1241.34	68.78	78.36	1231.76	105.57
1	37	386	2.16	0.52	0.78	1.91	0.59	1189.07	143.03	164.96	1167.14	149.86
1	37	387	2.22	6.82e-02	0.67	1.62	0.97	1103.94	316.39	333.00	1087.33	113.16
1	37	388	1.52	-1.86e-02	0.60	0.90	0.76	1056.42	364.88	365.00	1056.29	9.39
1	37	389	0.83	0.46	0.61	0.67	0.18	1073.66	248.31	258.82	1063.15	-92.54
1	37	390	1.74	0.44	0.74	1.45	-0.54	1131.02	34.31	49.38	1115.95	-127.69
1	37	391	6.78	7.55e-02	0.89	5.97	-2.19	1203.09	-114.70	-112.54	1200.93	-53.36
1	37	392	10.27	-1.48	-0.40	9.19	3.39	1256.96	-151.28	-143.50	1249.19	104.37
1	37	393	5.87	-3.33	1.47e-02	2.52	4.43	1213.64	-157.01	-134.00	1190.64	176.08
1	37	394	2.55	0.83	1.23	2.15	0.73	1153.41	-40.17	11.04	1102.20	241.86
1	37	395	2.29	0.12	0.83	1.58	1.02	1064.50	184.78	240.00	1009.27	213.38
1	37	396	1.48	-1.17e-02	0.59	0.88	0.73	982.10	327.28	345.66	963.72	108.16
1	37	397	0.78	0.34	0.45	0.67	0.19	945.55	327.15	327.58	945.11	-16.43
1	37	398	1.36	0.28	0.45	1.19	-0.39	974.02	199.40	214.77	958.66	-108.02
1	37	399	4.48	0.42	0.65	4.26	-0.92	1028.95	55.94	76.41	1008.47	-139.66
1	37	400	4.43	0.91	0.94	4.40	0.36	1044.97	2.02	24.25	1022.75	-150.61
1	37	401	7.50	-6.61	5.44	-4.55	-4.98	911.91	-109.03	82.23	720.65	398.36
1	37	402	9.53	2.22	6.32	5.43	-3.63	991.49	197.00	463.39	725.11	375.07
1	37	403	3.06	0.81	1.12	2.74	0.78	909.15	514.92	697.62	726.45	196.59
1	37	404	1.30	-0.32	8.93e-02	0.90	0.70	742.24	698.62	730.10	710.76	19.54
1	37	405	0.93	-1.01	-0.97	0.89	0.27	801.37	491.08	603.22	689.22	-149.07
1	37	406	2.33	-3.19	-3.10	2.23	-0.71	805.73	144.99	287.67	663.05	-271.88
1	37	407	-5.05e-02	-4.81	-3.44	-1.41	2.15	777.20	-309.10	-199.48	667.58	-327.20
1	37	408	11.62	-9.80	11.54	-9.72	-1.30	1005.11	-388.04	-383.21	1000.28	81.93
1	37	409	0.92	-0.19	0.88	-0.14	0.22	353.68	75.76	290.52	138.91	-116.46
1	37	410	8.50	0.79	4.54	4.75	-3.86	844.53	-75.52	61.66	707.35	327.71
1	37	411	3.91	-1.31	-1.22	3.82	0.69	782.26	314.59	407.24	689.61	186.40
1	37	412	1.65	-1.18	-0.82	1.29	0.94	705.14	498.39	519.15	684.39	62.14
1	37	413	0.81	-0.82	-0.67	0.66	0.47	710.11	421.17	454.25	677.03	-91.99
1	37	414	1.74	-2.11	-1.49	1.12	-1.41	741.01	121.62	196.40	666.23	-201.81
1	37	415	0.15	-1.30	-0.46	-0.69	-0.71	779.60	-233.68	-178.51	724.43	-229.91
1	37	416	19.65	3.21	19.50	3.35	-1.54	990.38	-77.51	-73.92	986.79	61.79
1	37	417	11.62	2.37	11.34	2.65	-1.60	961.78	-292.45	-263.25	932.58	189.14
1	37	418	5.85	0.79	1.00	5.64	1.02	799.13	-1.31	132.02	665.80	298.24
1	37	419	2.51	-1.07	-0.45	1.89	1.36	736.99	311.81	389.24	659.56	164.09
1	37	420	1.21	-0.94	-0.40	0.66	0.94	652.84	441.07	442.09	651.82	14.70
1	37	421	0.53	-0.68	-0.54	0.40	0.38	683.76	256.76	307.23	633.29	-137.84

1	37	422	1.73	-2.72	-2.09	1.10	-1.55	683.59	-114.75	-35.58	604.42	-238.62
1	37	423	0.69	-2.53	0.52	-2.36	-0.72	716.79	-512.84	-473.88	677.82	-215.39
1	37	424	23.85	2.29	23.52	2.62	-2.66	954.59	-313.86	-303.42	944.16	114.59
1	37	425	13.74	1.73	13.16	2.31	-2.57	911.60	-552.61	-486.86	845.86	303.22
1	37	426	6.08	0.59	0.93	5.74	1.33	796.73	-226.07	-34.95	605.61	398.69
1	37	427	2.26	-0.98	-0.41	1.70	1.24	768.05	123.42	287.82	603.65	280.98
1	37	428	1.02	-0.90	-0.45	0.57	0.82	673.34	359.08	433.62	598.80	133.67
1	37	429	0.41	-0.64	-0.59	0.36	0.22	583.02	414.69	417.44	580.27	-21.33
1	37	430	1.30	-2.75	-2.20	0.74	-1.39	607.44	157.69	222.08	543.06	-157.51
1	37	431	-0.99	-2.92	-1.87	-2.04	-0.96	596.56	-129.90	-60.35	527.01	-213.75
1	37	432	6.33	0.47	6.30	0.50	-0.39	725.09	-47.98	-33.00	710.12	-106.55
1	37	433	6.27	-8.60	-6.82	4.49	-4.83	768.37	37.29	612.93	192.74	299.13
1	37	434	1.57	-2.83	-2.53	1.27	1.12	867.41	197.11	798.35	266.17	203.77
1	37	435	0.32	-0.83	-0.82	0.30	0.13	880.01	281.70	879.35	282.36	19.83
1	37	436	0.51	-1.92	-1.61	0.21	-0.81	764.14	202.29	714.89	251.54	-158.88
1	37	437	-0.87	-2.90	-1.56	-2.21	-0.97	475.28	-65.47	274.10	135.71	-261.37
1	37	438	12.69	-6.55	12.61	-6.47	1.21	-6.63	-492.29	-365.63	-133.29	-213.24
1	37	439	8.10	-2.48	7.71	-2.09	1.99	-80.01	-319.77	-236.14	-163.64	-114.27
1	37	440	0.30	-1.47	-1.35	0.18	-0.45	384.73	-89.77	191.49	103.47	233.13
1	37	441	0.17	-5.37	-4.10	-1.10	2.33	528.20	68.92	414.21	182.91	198.39
1	37	442	1.14	-2.33	-1.68	0.49	1.35	642.75	238.32	631.49	249.58	66.55
1	37	443	8.27e-02	-2.26	-2.18	5.00e-03	0.42	576.62	208.11	545.88	238.85	-101.89
1	37	444	-5.39e-03	-2.63	-0.24	-2.39	0.75	356.97	-22.90	183.26	150.82	-189.24
1	37	445	14.01	-5.66	13.88	-5.52	1.61	-113.88	-478.60	-433.39	-159.08	-120.19
1	37	447	5.71	-16.83	-16.71	5.59	1.61	494.02	8.39	493.92	8.49	-7.08
1	37	448	1.06	-9.85	-9.68	0.88	1.37	335.94	-65.32	331.22	-60.60	43.26
1	37	449	24.92	6.46	18.99	12.39	8.62	272.12	164.36	178.06	258.42	-35.90
1	37	450	1.93	-3.67	-3.63	1.89	-0.51	805.63	-129.85	-126.79	802.56	-53.46
1	37	451	4.51	-5.54e-02	-5.50e-03	4.46	-0.47	1119.10	-58.33	-56.88	1117.65	-41.29
1	37	452	4.39	0.14	0.14	4.38	-9.60e-02	1336.70	-49.19	-48.74	1336.25	-25.03
1	37	453	3.97	0.22	0.22	3.97	-2.53e-02	1486.08	-40.25	-39.98	1485.81	-20.34
1	37	454	3.66	0.20	0.20	3.66	-3.99e-03	1569.88	-35.94	-35.69	1569.63	-19.82
1	37	455	3.56	0.19	0.19	3.56	1.37e-02	1594.60	-33.99	-33.97	1594.57	-6.07
1	37	456	3.67	0.19	0.19	3.67	3.46e-02	1560.40	-34.72	-34.68	1560.36	-8.01
1	37	457	3.91	0.12	0.13	3.90	9.26e-02	1461.54	-38.13	-37.98	1461.38	-15.18
1	37	458	3.96	-0.17	-0.13	3.92	0.39	1286.99	-45.25	-44.99	1286.73	-18.50
1	37	459	2.59	-3.15	-3.11	2.55	0.47	1039.49	-86.35	-86.17	1039.31	-14.26
1	37	460	21.34	6.98	17.09	11.23	-6.56	552.96	108.53	114.66	546.83	-51.83
1	37	461	17.25	-5.11	13.59	-1.44	8.28	-14.20	-411.19	-112.10	-313.30	-171.11
1	37	462	7.70	-6.44	6.54	-5.27	-3.88	-9.38	-187.25	-24.83	-171.80	50.10
1	37	463	-1.60	-12.53	-10.43	-3.69	4.31	39.77	-244.19	-70.41	-134.00	-138.37
1	37	464	0.38	-0.56	-0.50	0.31	0.24	799.00	-61.29	17.97	719.74	-248.81
1	37	465	-0.63	-0.98	-0.63	-0.98	-2.25e-02	1326.28	-33.16	9.13	1283.99	-236.01
1	37	466	-0.18	-1.40	-0.19	-1.40	4.98e-02	1632.58	-5.08	13.98	1613.52	-175.64
1	37	467	-0.21	-1.61	-0.21	-1.61	6.01e-02	1824.82	3.66	11.49	1817.00	-119.15
1	37	468	-0.19	-1.59	-0.19	-1.59	4.51e-02	1935.56	8.46	10.74	1933.28	-66.26
1	37	469	-0.18	-1.41	-0.18	-1.41	2.25e-02	1973.30	10.61	10.61	1973.30	0.16
1	37	470	-0.20	-1.12	-0.20	-1.12	-4.80e-03	1941.03	9.80	11.26	1939.58	53.00
1	37	471	-0.21	-0.72	-0.21	-0.71	-3.13e-02	1832.20	7.39	13.41	1826.18	104.68
1	37	472	-4.89e-02	-0.56	-0.55	-6.34e-02	8.52e-02	1628.49	-5.12	12.26	1611.10	167.63
1	37	473	4.36	-0.40	-9.79e-02	4.06	1.15	1255.17	-36.29	0.41	1218.48	214.57
1	37	474	7.68	3.04	4.49	6.22	2.15	599.69	4.74	97.46	506.97	215.79
1	37	475	7.34	-8.15	-0.90	8.49e-02	7.73	170.89	-252.44	-250.85	169.31	-25.84
1	37	476	20.81	-4.54	18.84	-2.58	6.78	465.29	-1108.98	-1107.99	464.30	-39.48
1	37	477	16.28	-8.61	10.82	-3.16	10.30	343.13	-905.84	-905.76	343.05	-9.66
1	37	478	7.21	-6.07	-4.83	5.97	3.86	367.25	-1175.77	-1172.72	364.20	-68.53
1	37	479	4.90	-8.93	-7.29	3.26	-4.47	56.58	-224.51	-206.37	38.44	-69.06
1	37	480	29.10	10.15	27.34	11.90	5.49	73.81	-934.68	-933.55	72.68	33.80
1	37	481	11.70	-0.14	9.58	1.98	4.54	115.13	-117.40	28.66	-30.93	112.38
1	37	482	0.10	-1.66	-1.02	-0.53	0.84	547.95	-39.66	535.75	-27.46	83.79
1	37	483	-0.30	-3.21	-3.20	-0.31	0.14	614.36	-29.84	614.32	-29.80	5.37
1	37	484	-0.43	-3.46	-3.46	-0.43	-1.98e-03	433.14	-51.59	419.20	-37.65	-81.02
1	37	485	0.85	-5.57	-5.55	0.83	-0.34	61.08	-225.43	-136.21	-28.14	-132.67
1	37	486	2.80	-28.49	-7.34	-18.35	14.64	-295.90	-1213.98	-1162.83	-347.05	210.58
1	37	487	26.57	8.44	26.57	8.44	-3.14e-02	-35.63	-1307.10	-1307.04	-35.69	-8.39
1	37	488	10.37	-0.53	7.63	2.20	4.73	92.96	-288.10	-162.65	-32.49	179.07
1	37	489	-0.21	-2.00	-1.62	-0.59	0.73	450.81	-78.73	408.22	-36.14	144.02
1	37	490	-0.28	-3.59	-3.59	-0.28	0.11	613.03	-47.39	605.55	-39.91	69.89
1	37	491	-0.47	-4.15	-4.14	-0.48	0.15	570.62	-47.35	570.56	-47.28	6.33
1	37	492	-2.48	-7.20	-7.05	-2.63	0.81	265.51	-73.29	261.96	-69.74	-34.49
1	37	493	4.59	3.48	4.43	3.64	0.39	387.41	-68.60	340.30	-21.49	138.79
1	37	494	3.55	-1.45	0.67	1.44	2.47	900.96	-16.57	879.46	4.93	138.79
1	37	495	-0.52	-3.13	-3.12	-0.53	9.73e-02	959.06	-12.84	957.89	-11.67	33.73
1	37	496	-0.20	-2.08	-1.96	-0.32	-0.47	786.82	-23.12	781.99	-18.29	-62.36
1	37	497	3.76	-0.76	0.78	2.21	-2.14	349.55	-75.75	279.38	-5.57	-157.87
1	37	498	4.94	-24.31	-2.64	-16.73	12.82	-259.12	-703.95	-672.78	-290.30	113.55

1	37	499	-0.86	-10.25	-6.97	-4.14	4.48	-20.30	-262.73	-252.75	-30.29	48.17
1	37	500	11.54	-9.17	9.48	-7.11	-6.20	-253.29	-279.41	-278.71	-253.99	-4.22
1	37	501	9.01	0.24	4.60	4.65	4.39	554.77	-6.76	511.70	36.31	149.42
1	37	502	-4.43e-02	-3.05	-2.90	-0.20	0.67	690.28	-19.67	688.77	-18.15	32.73
1	37	503	-0.49	-4.30	-4.30	-0.50	7.74e-02	604.76	-33.06	599.36	-27.65	-58.47
1	37	504	1.09	-5.93	-5.90	1.06	-0.47	216.65	-89.19	149.00	-21.54	-126.94
1	37	505	-0.48	-26.62	-9.75	-17.36	12.50	-266.77	-792.73	-752.14	-307.36	140.36
1	37	506	4.92	1.79	4.88	1.83	0.36	-157.48	-173.53	-168.14	-162.88	7.58
1	37	507	-4.96	-17.44	-12.70	-9.69	6.06	57.31	-214.96	-78.54	-79.11	136.14
1	37	508	-0.36	-3.67	-3.66	-0.36	-0.14	554.06	-59.11	551.11	-56.15	42.47
1	37	509	-0.84	-2.39	-2.25	-0.98	-0.45	530.29	-43.07	530.08	-42.86	-10.98
1	37	510	5.21e-02	-4.07	-4.06	4.56e-02	-0.16	329.91	-73.70	320.00	-63.79	62.48
1	37	511	-0.11	-6.30	-6.30	-0.12	-0.23	-32.20	-296.57	-255.13	-73.63	96.11
1	37	512	1.62	-30.13	-10.79	-17.72	-15.49	-297.74	-1247.72	-1181.38	-364.08	-242.12
1	37	513	26.17	-15.19	22.86	-11.88	-11.22	656.94	-1033.05	-1027.21	651.10	99.19
1	37	514	35.05	16.60	34.29	17.36	-3.67	34.78	-1258.37	-1258.04	34.45	20.77
1	37	515	10.50	-0.48	7.96	2.06	-4.63	60.40	-234.90	-111.13	-63.36	-145.70
1	37	516	-0.77	-3.23	-3.14	-0.87	-0.48	408.70	-73.42	384.24	-48.95	-105.82
1	37	517	-0.33	-4.42	-4.41	-0.33	-0.10	529.88	-64.19	522.10	-56.40	-67.55
1	37	518	-6.45e-02	-4.75	-4.75	-6.83e-02	-0.13	454.40	-65.47	452.92	-63.99	-27.69
1	37	519	-2.76	-8.97	-8.71	-3.02	-1.25	119.47	-106.96	119.47	-106.96	-0.48
1	37	520	-3.27	-15.96	-12.32	-6.91	-5.74	-11.65	-350.60	-317.59	-44.67	-100.49
1	37	521	16.94	7.93	10.05	14.82	-3.82	528.85	-35.06	495.97	-2.17	-132.15
1	37	522	-4.17	-7.61	-5.82	-5.96	1.72	286.00	-142.71	-95.38	238.67	134.35
1	37	523	3.11	-1.64	1.59	-0.12	-2.22	969.10	-39.08	960.66	-30.64	-91.83
1	37	524	-0.43	-1.49	-1.49	-0.44	-5.45e-02	933.08	-46.04	933.03	-45.99	-7.25
1	37	525	5.32e-03	-1.21	-1.18	-1.56e-02	-0.16	727.89	-55.00	724.77	-51.88	49.35
1	37	526	1.31	-1.02	-0.30	0.59	1.07	244.44	-96.12	210.44	-62.12	102.10
1	37	527	4.92	-20.91	-3.97	-12.02	-12.28	-233.44	-737.71	-670.31	-300.84	-171.60
1	37	528	1.55	-10.03	-3.35	-5.14	-5.72	597.35	-1016.99	-1007.77	588.14	121.63
1	37	529	7.03	-10.16	-0.93	-2.20	-8.57	253.87	-260.24	-255.73	249.36	47.94
1	37	530	15.48	4.58	14.73	5.33	2.76	-126.03	-219.11	-127.65	-217.49	12.19
1	37	531	6.65	-1.28	3.24	2.14	-3.93	595.40	-6.76	582.49	6.15	-87.22
1	37	532	-0.17	-3.00	-2.97	-0.20	-0.29	656.23	-49.55	656.12	-49.44	8.82
1	37	533	3.19e-02	-3.71	-3.70	1.43e-02	-0.26	528.56	-64.06	524.78	-60.28	47.22
1	37	534	3.06e-04	-5.67	-5.66	-8.75e-04	-8.18e-02	111.36	-116.80	69.84	-75.27	88.03
1	37	535	-0.42	-25.72	-12.20	-13.95	-12.62	-264.86	-783.17	-723.21	-324.82	-165.78
1	37	536	22.88	-21.89	16.17	-15.18	-15.98	638.58	-773.34	-770.04	635.28	68.11
1	37	537	43.87	15.66	37.51	22.02	-11.79	241.44	-822.16	-821.51	240.79	-26.25
1	37	538	11.78	-0.20	9.77	1.81	-4.47	123.79	-107.89	111.43	-95.53	-52.08
1	37	539	11.20	5.77	10.20	6.77	-2.11	-119.08	-275.09	-231.60	-162.57	-69.95
1	37	540	-0.45	-13.39	-12.49	-1.35	-3.30	15.95	-220.42	-77.64	-126.83	-115.60
1	66	1	3.22	-5.81	1.17	-3.77	-3.78	-235.44	-892.70	-754.43	-373.71	267.88
1	66	3	5.86	-3.68	3.42e-02	2.15	-4.65	-550.30	-865.18	-695.42	-720.05	-156.96
1	66	6	2.28	-16.70	-2.47	-11.96	8.22	-973.77	-2345.42	-2329.90	-989.29	-145.06
1	66	9	4.54	-7.13	-3.85	1.27	-5.24	-1278.18	-2079.25	-2078.19	-1279.24	29.09
1	66	11	5.11	-18.20	-4.24	-8.84	11.42	-790.85	-1892.18	-1880.23	-802.79	-114.07
1	66	13	6.20	-9.17	-4.19	1.22	-7.20	-1074.93	-1663.62	-1660.75	-1077.81	-41.07
1	66	15	2.78	-5.74	2.62	-5.58	-1.17	-1020.79	-1871.78	-1866.63	-1025.94	66.00
1	66	17	3.37	-0.47	3.12	-0.22	-0.94	-1199.63	-1790.26	-1788.00	-1201.89	-36.50
1	66	19	1.92	-3.15	0.24	-1.47	2.39	-306.10	-788.37	-609.95	-484.52	-232.84
1	66	21	1.03	-0.81	-0.75	0.97	0.33	-407.28	-813.85	-585.27	-635.86	201.71
1	66	22	6.45	-8.03	5.76	-7.35	3.08	685.99	-233.02	-123.88	576.86	-297.30
1	66	23	7.15	1.75	3.08	5.83	2.33	805.84	89.66	371.34	524.17	-349.84
1	66	24	4.25	-5.21	-0.42	-0.54	4.73	600.40	-3.28	431.53	165.59	-270.97
1	66	25	1.19	-0.40	-3.66e-03	0.79	-0.69	783.79	423.15	641.82	565.12	-176.19
1	66	26	0.97	-2.69	-2.55	0.83	-0.70	763.94	210.66	703.11	271.49	-173.07
1	66	27	0.61	-0.57	-0.52	0.56	-0.24	717.09	575.32	714.75	577.66	-18.07
1	66	28	0.13	-1.66	-1.66	0.13	-3.88e-02	809.92	293.21	809.65	293.48	-11.85
1	66	29	1.26	-1.18	-1.17	1.26	0.13	804.49	366.45	600.69	570.26	218.49
1	66	30	0.71	-2.56	-2.20	0.34	1.03	779.29	168.01	674.62	272.68	230.27
1	66	31	1.99	-1.90	-1.90	1.99	0.12	770.41	44.65	280.08	534.98	339.77
1	66	32	1.25	-5.82	-5.01	0.43	2.26	565.15	-133.91	247.21	184.02	348.10
1	66	33	8.06	-2.64	-1.13	6.56	-3.72	682.15	-483.25	-257.40	456.31	460.65
1	66	34	10.36	-9.98	10.20	-9.82	-1.81	91.05	-519.50	-309.94	-118.51	289.88
1	66	35	12.88	-23.07	12.87	-23.06	-0.69	863.93	-802.71	-802.69	863.91	-5.58
1	66	36	3.42	-7.81	-6.96	2.57	-2.97	-667.82	-927.86	-814.73	-780.95	-128.92
1	66	37	0.18	-3.20	-3.04	1.47e-02	0.72	107.51	-100.03	84.90	-77.41	64.67
1	66	38	9.06	-1.09	0.15	7.82	3.33	645.94	-241.49	-59.94	464.40	-357.98
1	66	39	4.09	-6.39	4.09	-6.39	-0.21	215.38	-194.59	-14.14	34.93	-203.51
1	66	40	2.10	-1.83	-1.82	2.08	-0.24	692.10	245.16	362.99	574.27	-196.93
1	66	41	1.68	-6.44	-5.36	0.60	-2.75	513.86	59.28	352.55	220.58	-217.50
1	66	42	1.42	-1.51	-1.33	1.24	-0.71	599.80	542.05	542.31	599.54	-3.85
1	66	43	0.97	-2.83	-2.30	0.44	-1.31	625.51	290.35	625.28	290.57	-8.64
1	66	44	1.10	-0.97	-0.91	1.04	-0.35	734.83	387.81	508.47	614.17	165.27
1	66	45	0.23	-2.75	-2.75	0.23	-1.41e-02	660.21	211.57	577.55	294.23	173.93

1	66	46	0.86	-1.28	-0.84	0.42	0.86	774.23	84.64	251.67	607.20	295.43
1	66	47	-0.14	-3.32	-3.05	-0.40	0.88	534.24	-72.99	223.12	238.12	303.52
1	66	48	9.36	4.47	5.99	7.84	-2.27	811.04	-308.99	-146.27	648.32	394.68
1	66	49	13.64	-9.82	12.88	-9.05	-4.17	96.75	-476.66	-287.06	-92.84	269.76
1	66	50	35.41	-13.72	35.17	-13.47	3.47	1254.99	-144.86	-137.77	1247.90	99.36
1	66	51	14.94	0.62	12.29	3.28	5.57	1072.36	-458.27	-404.61	1018.70	-281.52
1	66	52	12.91	-18.75	-6.68	0.84	15.38	-354.41	-1175.35	-1000.19	-529.56	-336.33
1	66	53	5.43	-4.38	-4.06	5.11	-1.75	681.06	-103.04	67.22	510.81	-323.28
1	66	54	4.88	-7.59	-4.81	2.10	-5.19	423.58	-200.82	50.82	171.94	-306.27
1	66	55	2.79	-2.41	-1.74	2.12	-1.74	737.08	313.19	437.26	613.01	-192.87
1	66	56	2.35	-3.05	-1.59	0.89	-2.40	607.18	173.34	495.08	285.43	-189.91
1	66	57	1.08	-1.46	-1.06	0.68	-0.93	628.97	530.24	542.26	616.95	32.29
1	66	58	0.54	-1.99	-1.71	0.27	-0.79	642.90	309.15	639.93	312.12	31.31
1	66	59	1.28	-0.99	-0.95	1.24	-0.30	754.15	298.01	430.73	621.42	207.18
1	66	60	0.37	-2.64	-2.59	0.32	0.40	633.68	151.42	492.28	292.83	219.54
1	66	61	1.23	-2.29	-2.05	0.98	0.90	752.50	-84.68	74.51	593.32	328.53
1	66	62	0.35	-3.92	-3.01	-0.56	1.75	467.13	-234.91	21.45	210.77	338.02
1	66	63	11.31	3.38	7.19	7.50	-3.96	798.71	-550.26	-414.67	663.12	405.61
1	66	64	15.62	-10.74	15.05	-10.16	-3.86	-92.95	-743.74	-600.70	-235.99	269.49
1	66	65	40.09	-23.49	39.81	-23.20	4.24	1302.00	-367.40	-366.82	1301.42	31.19
1	66	66	18.54	0.36	13.85	5.05	7.96	1046.82	-675.50	-572.80	944.13	-407.83
1	66	67	11.35	-14.05	-1.37	-1.32	12.70	-344.65	-1256.54	-1064.49	-536.70	-371.81
1	66	68	5.02	-4.30	-3.93	4.66	-1.81	756.90	-264.49	-31.76	524.17	-428.42
1	66	69	3.77	-7.21	-4.53	1.08	-4.72	480.98	-393.76	-76.18	163.41	-420.64
1	66	70	2.52	-2.23	-1.70	1.99	-1.50	825.95	199.58	412.57	612.95	-296.72
1	66	71	1.99	-3.24	-1.99	0.74	-2.23	700.45	52.43	468.99	283.89	-310.51
1	66	72	0.72	-1.45	-1.12	0.39	-0.78	710.97	515.73	610.29	616.40	-97.57
1	66	73	0.37	-2.28	-2.02	0.11	-0.79	745.20	288.61	716.26	317.56	-111.26
1	66	74	0.64	-0.75	-0.75	0.64	2.06e-02	719.31	521.54	615.68	625.17	98.77
1	66	75	0.13	-2.61	-2.61	0.13	5.19e-02	727.71	291.18	703.61	315.29	99.71
1	66	76	1.53	-3.00	-2.09	0.62	1.81	807.30	194.16	401.43	600.03	290.04
1	66	77	1.52	-1.95	-1.50	1.07	1.16	672.89	71.35	459.76	284.48	287.72
1	66	78	10.37	4.08	6.27	8.17	-3.00	902.54	-95.93	115.73	690.87	408.09
1	66	79	10.46	-8.04	6.34	-3.92	-7.69	359.74	-353.93	7.53e-02	5.73	356.82
1	66	80	13.29	-13.86	12.76	-13.33	-3.76	1019.25	-60.41	-14.43	973.27	218.02
1	66	81	3.63	0.87	2.98	1.52	-1.17	1188.50	8.13	101.42	1095.22	-318.44
1	66	82	4.53	1.29	2.11	3.72	-1.41	1146.39	237.67	333.74	1050.32	-279.42
1	66	83	3.02	0.24	1.45	1.81	-1.38	1048.14	481.45	528.82	1000.76	-156.85
1	66	84	1.51	0.12	0.90	0.73	-0.69	986.99	584.86	585.01	986.85	7.69
1	66	85	1.05	0.52	0.54	1.03	-0.11	1062.21	439.15	497.72	1003.65	181.82
1	66	86	3.26	2.48e-02	0.17	3.12	0.68	1156.94	192.78	280.45	1069.27	277.21
1	66	87	6.72	0.50	0.72	6.49	-1.16	1256.45	-44.74	9.32	1202.39	259.65
1	66	88	6.30	-0.30	5.82	0.17	-1.70	1312.66	-99.56	-98.50	1311.60	38.75
1	66	89	0.23	-0.76	-0.59	6.24e-02	0.37	419.88	60.54	387.86	92.56	102.38
1	66	90	5.61	0.83	0.97	5.46	0.81	1213.89	32.23	64.28	1181.84	-191.95
1	66	91	3.74	0.14	0.65	3.23	-1.26	1115.85	284.80	316.16	1084.49	-158.38
1	66	92	1.49	0.46	0.71	1.24	-0.44	1050.52	442.69	442.76	1050.45	-6.74
1	66	93	1.52	0.73	1.20	1.05	0.39	1093.20	402.97	425.64	1070.53	123.03
1	66	94	4.34	0.44	1.68	3.10	1.82	1192.52	241.00	282.51	1151.01	194.37
1	66	95	9.25	0.57	0.95	8.86	1.79	1338.62	76.54	98.46	1316.71	164.87
1	66	96	8.25	-3.95	-2.79	7.09	-3.58	1381.88	-5.04	-4.83	1381.66	-17.23
1	66	97	4.49	-2.33	-0.14	2.30	-3.19	1341.95	-3.09	-0.12	1338.98	-63.06
1	66	98	2.63	0.81	0.82	2.62	-9.69e-02	1211.66	110.74	134.75	1187.65	-160.79
1	66	99	1.99	-0.37	-7.09e-02	1.69	-0.79	1106.87	330.15	352.53	1084.50	-129.92
1	66	100	1.27	-2.08e-02	0.20	1.05	-0.49	1063.07	427.75	428.80	1062.02	25.83
1	66	101	1.23	0.35	0.46	1.11	0.30	1120.72	310.84	342.66	1088.90	157.34
1	66	102	4.26	0.64	1.53	3.37	1.56	1223.06	97.60	141.33	1179.32	217.50
1	66	103	9.67	1.05	1.56	9.16	2.02	1387.15	-78.78	-65.06	1373.43	141.14
1	66	104	9.82	-2.73	-2.10	9.19	-2.74	1452.99	-133.37	-131.50	1451.12	-54.41
1	66	105	6.02	-1.79	0.39	3.83	-3.51	1400.04	-152.35	-139.01	1386.70	-143.29
1	66	106	3.15	1.16	1.26	3.05	-0.44	1254.14	-6.43	52.18	1195.54	-265.41
1	66	107	1.89	-0.22	0.18	1.50	-0.83	1133.03	271.94	328.56	1076.40	-213.43
1	66	108	1.02	0.24	0.49	0.77	-0.36	1051.14	468.75	480.80	1039.09	-82.88
1	66	109	1.28	0.33	0.85	0.76	0.48	1054.91	474.68	483.86	1045.74	72.37
1	66	110	3.46	0.55	1.52	2.49	1.37	1149.24	314.65	368.07	1095.82	204.28
1	66	111	7.47	1.67	1.77	7.37	0.74	1303.41	120.34	183.83	1239.92	266.61
1	66	112	2.00	1.15	1.19	1.95	-0.19	1304.47	9.56	71.60	1242.43	276.56
1	66	113	3.01	7.90e-02	0.30	2.79	-0.77	1487.59	72.49	120.09	1439.99	-255.13
1	66	114	3.22	5.06e-02	0.77	2.51	-1.32	1412.14	269.71	301.97	1379.88	-189.25
1	66	115	2.73	1.66e-02	1.05	1.70	-1.32	1352.13	433.21	442.38	1342.97	-91.32
1	66	116	1.96	0.34	1.19	1.10	-0.81	1332.72	492.36	492.85	1332.23	20.26
1	66	117	1.44	1.04	1.16	1.32	-0.18	1373.09	432.62	445.84	1359.87	110.72
1	66	118	2.66	0.96	0.98	2.64	0.19	1446.30	306.16	326.12	1426.34	149.53
1	66	119	3.57	0.95	0.95	3.56	-0.13	1507.51	178.89	191.36	1495.04	128.12
1	66	120	3.42	1.37	1.47	3.31	-0.45	1532.20	137.63	139.19	1530.64	46.65
1	66	121	-8.75e-02	-0.95	-0.93	-9.82e-02	9.51e-02	490.58	123.02	484.98	128.62	45.02

1	66	122	3.56	1.09	1.21	3.44	-0.53	1500.14	203.12	204.98	1498.28	-49.09
1	66	123	2.91	1.01	1.29	2.63	-0.68	1448.35	325.04	327.51	1445.88	-52.54
1	66	124	1.78	1.38	1.54	1.61	-0.20	1418.23	399.98	399.98	1418.23	2.32
1	66	125	2.33	0.96	1.56	1.73	0.68	1439.88	392.83	396.52	1436.19	62.06
1	66	126	4.00	0.38	0.97	3.40	1.34	1500.24	323.07	328.18	1495.13	77.36
1	66	127	5.56	4.89e-03	4.92e-02	5.52	0.49	1545.30	239.78	242.88	1542.19	63.56
1	66	128	5.66	0.53	0.71	5.48	-0.94	1564.61	223.66	224.29	1563.99	28.98
1	66	129	5.06	-0.27	0.46	4.33	-1.84	1552.26	211.12	211.16	1552.22	6.79
1	66	130	3.02	8.89e-02	0.90	2.21	-1.31	1523.74	248.06	250.04	1521.76	-50.22
1	66	131	1.96	0.75	1.19	1.53	-0.58	1459.96	339.09	340.70	1458.36	-42.41
1	66	132	1.28	1.16	1.17	1.26	-4.45e-02	1431.55	376.47	376.97	1431.05	23.06
1	66	133	2.32	0.85	1.47	1.70	0.72	1465.02	326.62	332.91	1458.72	84.39
1	66	134	4.23	0.36	1.00	3.58	1.45	1535.56	218.85	226.23	1528.17	98.34
1	66	135	6.11	-0.38	-0.30	6.02	0.74	1574.32	121.69	122.93	1573.07	42.58
1	66	136	6.71	0.85	0.95	6.61	-0.77	1591.76	126.97	127.15	1591.58	-16.20
1	66	137	5.87	-0.51	0.25	5.11	-2.07	1575.44	107.10	109.13	1573.41	-54.56
1	66	138	3.64	1.47e-03	0.98	2.66	-1.62	1537.07	168.66	181.24	1524.49	-130.60
1	66	139	2.18	0.70	1.37	1.52	-0.74	1451.38	301.49	316.31	1436.57	-129.66
1	66	140	1.28	1.01	1.27	1.03	-6.64e-02	1387.90	399.34	402.69	1384.54	-57.48
1	66	141	1.96	0.59	1.29	1.25	0.69	1385.41	402.69	404.25	1383.85	39.08
1	66	142	3.32	0.23	0.99	2.55	1.33	1439.45	309.13	322.81	1425.78	123.57
1	66	143	4.59	-3.18e-02	0.42	4.14	1.37	1498.59	165.58	191.17	1473.00	182.91
1	66	144	5.26	1.47e-02	8.42e-02	5.19	0.60	1553.87	68.57	101.23	1521.20	217.82
1	66	145	2.00	-5.81e-02	3.18e-02	1.91	-0.42	1682.33	96.67	116.29	1662.70	-175.30
1	66	146	2.33	-8.87e-02	0.28	1.96	-0.87	1617.07	259.99	271.19	1605.87	-122.78
1	66	147	2.19	7.89e-02	0.67	1.60	-0.95	1576.03	381.18	384.29	1572.92	-60.95
1	66	148	1.83	0.45	0.93	1.34	-0.66	1566.79	434.34	434.42	1566.71	9.28
1	66	149	1.66	0.90	0.99	1.57	-0.25	1592.41	416.82	419.54	1589.69	56.49
1	66	150	2.24	0.87	0.87	2.24	1.75e-02	1636.37	355.15	358.75	1632.77	67.80
1	66	151	2.86	0.74	0.74	2.85	-5.57e-02	1679.94	288.15	292.08	1676.01	73.87
1	66	152	3.08	0.75	0.78	3.06	-0.24	1697.30	261.76	262.79	1696.27	38.45
1	66	153	-0.35	-1.07	-1.06	-0.36	9.78e-02	386.49	85.96	376.03	96.42	-55.09
1	66	154	2.96	0.85	0.93	2.88	-0.40	1687.58	290.01	290.05	1687.53	-8.17
1	66	155	2.45	1.08	1.17	2.36	-0.34	1664.22	347.84	348.03	1664.03	-15.84
1	66	156	1.93	1.35	1.35	1.93	3.36e-02	1650.90	388.73	388.78	1650.85	8.23
1	66	157	2.36	0.85	1.08	2.12	0.54	1660.30	388.46	388.65	1660.11	15.52
1	66	158	3.24	0.54	0.74	3.04	0.71	1685.58	358.25	358.74	1685.09	25.56
1	66	159	3.85	0.38	0.39	3.84	0.16	1710.00	317.26	318.86	1708.40	47.10
1	66	160	3.58	0.23	0.27	3.54	-0.37	1716.11	304.56	304.91	1715.76	22.17
1	66	161	3.65	0.22	0.41	3.47	-0.77	1716.71	301.59	301.75	1716.55	14.97
1	66	162	2.75	0.39	0.77	2.37	-0.87	1701.25	313.92	313.98	1701.19	-9.26
1	66	163	1.94	0.94	1.28	1.60	-0.47	1675.65	351.98	352.03	1675.61	-7.41
1	66	164	1.57	1.32	1.37	1.52	9.82e-02	1663.42	363.73	364.04	1663.12	19.84
1	66	165	2.34	0.72	1.04	2.02	0.64	1677.10	333.26	334.00	1676.36	31.54
1	66	166	3.46	0.42	0.67	3.21	0.84	1704.80	279.32	280.17	1703.94	34.89
1	66	167	4.33	0.23	0.25	4.31	0.28	1723.67	231.08	231.46	1723.30	23.67
1	66	168	4.12	0.13	0.15	4.09	-0.33	1721.89	223.69	223.79	1721.79	-12.55
1	66	169	4.22	6.95e-02	0.25	4.04	-0.85	1719.85	221.49	222.01	1719.33	-28.00
1	66	170	3.20	0.36	0.83	2.73	-1.06	1688.99	255.29	258.43	1685.84	-67.09
1	66	171	2.07	0.78	1.19	1.67	-0.60	1640.92	317.43	320.99	1637.37	-68.49
1	66	172	1.34	1.26	1.28	1.31	3.92e-02	1600.82	361.19	362.06	1599.95	-32.76
1	66	173	1.97	0.68	1.11	1.54	0.61	1591.48	352.60	352.91	1591.17	19.52
1	66	174	2.80	0.28	0.72	2.36	0.96	1613.30	282.65	286.87	1609.08	74.84
1	66	175	3.55	8.44e-02	0.28	3.35	0.80	1654.80	168.57	177.52	1645.85	115.01
1	66	176	3.71	3.09e-02	8.31e-02	3.66	0.44	1689.28	81.69	95.34	1675.64	147.49
1	66	177	1.30	-4.98e-02	3.49e-03	1.24	-0.26	1791.82	102.27	108.29	1785.81	-100.64
1	66	178	1.67	-9.60e-03	0.17	1.49	-0.52	1737.73	244.92	248.10	1734.56	-68.82
1	66	179	1.73	0.16	0.43	1.46	-0.59	1706.10	346.67	347.55	1705.22	-34.56
1	66	180	1.65	0.45	0.66	1.43	-0.46	1698.69	398.86	398.87	1698.68	3.72
1	66	181	1.69	0.68	0.74	1.63	-0.24	1714.98	402.25	403.32	1713.90	37.50
1	66	182	2.06	0.67	0.68	2.05	-9.13e-02	1743.59	374.74	375.63	1742.70	34.89
1	66	183	2.46	0.58	0.59	2.46	-0.12	1773.51	340.61	342.15	1771.97	46.91
1	66	184	2.64	0.59	0.60	2.63	-0.13	1787.81	324.73	325.27	1787.27	28.18
1	66	185	-0.79	-5.10	-1.57	-4.32	1.67	14.02	-96.20	-21.14	-61.05	-51.37
1	66	186	2.54	0.73	0.74	2.53	-0.14	1787.12	335.75	335.80	1787.07	8.23
1	66	187	2.24	0.94	0.94	2.24	-7.26e-02	1776.59	364.18	364.19	1776.59	2.37
1	66	188	2.05	1.04	1.06	2.03	0.14	1769.78	386.67	386.76	1769.68	11.67
1	66	189	2.26	0.85	0.95	2.16	0.36	1773.16	389.26	389.52	1772.90	18.92
1	66	190	2.63	0.58	0.65	2.57	0.36	1784.89	372.24	372.82	1784.31	28.59
1	66	191	2.86	0.42	0.42	2.86	4.94e-02	1797.45	352.12	352.75	1796.82	30.16
1	66	192	2.78	0.47	0.49	2.76	-0.24	1801.66	348.44	348.70	1801.41	19.18
1	66	193	2.77	0.48	0.55	2.69	-0.41	1800.64	344.30	344.49	1800.45	16.52
1	66	194	2.33	0.66	0.82	2.17	-0.49	1792.70	346.98	347.01	1792.67	7.14
1	66	195	1.83	0.98	1.09	1.73	-0.28	1780.67	359.57	359.60	1780.63	6.81
1	66	196	1.67	1.12	1.13	1.66	8.04e-02	1774.79	360.32	360.53	1774.57	17.43
1	66	197	2.16	0.80	0.92	2.04	0.38	1779.50	340.50	340.87	1779.13	22.96

1	66	198	2.78	0.44	0.52	2.70	0.42	1790.10	306.65	307.05	1789.70	24.35
1	66	199	3.18	0.28	0.29	3.17	0.18	1796.20	281.88	282.03	1796.05	15.21
1	66	200	3.15	0.27	0.27	3.15	-0.12	1792.41	279.74	279.74	1792.41	-2.54
1	66	201	3.11	0.34	0.39	3.07	-0.36	1787.34	278.08	278.16	1787.26	-10.74
1	66	202	2.56	0.54	0.65	2.45	-0.46	1761.89	292.77	293.31	1761.36	-27.97
1	66	203	1.86	0.86	0.92	1.79	-0.25	1728.27	322.25	322.84	1727.68	-28.77
1	66	204	1.50	1.00	1.02	1.48	9.29e-02	1700.18	338.22	338.37	1700.03	-14.54
1	66	205	1.83	0.67	0.89	1.61	0.45	1688.88	319.41	319.48	1688.81	9.66
1	66	206	2.31	0.36	0.59	2.08	0.63	1698.69	257.55	258.67	1697.56	40.29
1	66	207	2.71	0.19	0.30	2.60	0.52	1727.26	159.91	162.45	1724.72	63.03
1	66	208	2.82	7.81e-02	0.12	2.78	0.33	1754.29	83.87	87.90	1750.26	81.91
1	66	209	0.87	-2.81e-02	-1.62e-03	0.84	-0.15	1826.78	101.29	101.99	1826.08	-34.83
1	66	210	1.23	5.31e-02	0.12	1.16	-0.26	1778.87	232.85	233.23	1778.48	-24.29
1	66	211	1.38	0.22	0.31	1.30	-0.30	1751.47	326.09	326.16	1751.40	-10.08
1	66	212	1.47	0.41	0.48	1.40	-0.26	1743.81	377.50	377.55	1743.76	8.13
1	66	213	1.63	0.53	0.56	1.60	-0.18	1754.56	391.00	391.35	1754.21	21.75
1	66	214	1.92	0.53	0.54	1.91	-0.12	1776.31	378.77	379.31	1775.78	27.44
1	66	215	2.22	0.48	0.49	2.21	-0.12	1798.20	359.49	359.89	1797.81	23.84
1	66	216	2.36	0.50	0.50	2.36	-2.96e-03	1810.49	348.24	348.50	1810.23	19.64
1	66	217	11.47	-2.19	9.29	-1.39e-02	-5.00	-342.79	-645.81	-552.86	-435.73	139.73
1	66	218	2.32	0.60	0.61	2.31	0.13	1812.42	352.76	352.92	1812.26	15.42
1	66	219	2.15	0.74	0.77	2.12	0.19	1806.27	369.21	369.33	1806.16	12.69
1	66	220	2.04	0.78	0.84	1.98	0.27	1800.73	382.46	382.62	1800.57	15.20
1	66	221	2.09	0.72	0.80	2.01	0.32	1801.24	384.59	384.88	1800.95	20.24
1	66	222	2.22	0.65	0.69	2.17	0.25	1807.31	375.84	376.23	1806.92	23.73
1	66	223	2.30	0.59	0.60	2.29	6.97e-02	1813.74	364.48	364.82	1813.40	22.30
1	66	224	2.23	0.60	0.60	2.23	-6.74e-02	1815.31	361.32	361.55	1815.07	18.55
1	66	225	2.21	0.61	0.62	2.20	-0.13	1814.65	357.60	357.83	1814.43	18.10
1	66	226	1.97	0.73	0.76	1.94	-0.16	1808.64	355.93	356.10	1808.47	15.94
1	66	227	1.70	0.91	0.91	1.70	-6.23e-02	1799.96	360.21	360.35	1799.82	14.44
1	66	228	1.68	0.91	0.93	1.66	0.11	1794.78	356.85	357.05	1794.59	16.74
1	66	229	1.94	0.73	0.78	1.89	0.23	1795.87	340.15	340.40	1795.62	18.92
1	66	230	2.29	0.52	0.55	2.26	0.23	1800.11	316.24	316.47	1799.88	18.58
1	66	231	2.54	0.37	0.38	2.52	0.16	1799.82	299.21	299.35	1799.68	14.69
1	66	232	2.52	0.35	0.35	2.52	8.34e-02	1793.34	297.39	297.47	1793.25	11.45
1	66	233	2.48	0.37	0.37	2.48	2.87e-02	1788.42	295.00	295.07	1788.35	10.25
1	66	234	2.17	0.52	0.52	2.17	3.06e-03	1764.97	302.69	302.70	1764.96	3.46
1	66	235	1.77	0.71	0.71	1.76	4.38e-02	1735.82	318.26	318.26	1735.82	1.90
1	66	236	1.56	0.75	0.78	1.52	0.16	1711.28	321.34	321.36	1711.27	4.85
1	66	237	1.66	0.58	0.70	1.54	0.34	1699.77	297.49	297.51	1699.74	6.25
1	66	238	1.89	0.38	0.50	1.77	0.41	1705.11	239.64	239.70	1705.05	9.28
1	66	239	2.12	0.21	0.27	2.05	0.35	1726.67	149.35	149.47	1726.55	13.87
1	66	240	2.20	9.75e-02	0.12	2.18	0.22	1748.95	80.60	80.84	1748.71	20.03
1	66	241	0.63	-1.21e-02	-8.97e-03	0.63	-4.50e-02	1794.74	98.10	99.18	1793.66	42.76
1	66	242	0.98	8.93e-02	9.21e-02	0.98	-4.99e-02	1748.33	227.04	227.80	1747.57	33.93
1	66	243	1.17	0.26	0.26	1.16	-5.18e-02	1721.17	318.45	318.83	1720.79	23.05
1	66	244	1.31	0.41	0.42	1.30	-6.97e-02	1712.85	369.37	369.51	1712.71	13.60
1	66	245	1.51	0.49	0.50	1.51	-9.34e-02	1722.05	383.10	383.14	1722.01	7.18
1	66	246	1.81	0.47	0.48	1.80	-0.11	1741.97	371.70	371.73	1741.95	5.38
1	66	247	2.10	0.42	0.43	2.09	-9.03e-02	1762.31	353.73	353.77	1762.27	7.47
1	66	248	2.25	0.41	0.42	2.24	0.11	1773.04	342.95	343.09	1772.90	13.99
1	66	249	3.35	-4.50	-4.49	3.35	-0.20	-734.61	-993.09	-929.04	-798.66	-111.60
1	66	250	2.28	0.45	0.52	2.21	0.36	1773.45	346.56	346.88	1773.14	21.18
1	66	251	2.14	0.55	0.67	2.01	0.42	1765.50	361.32	361.68	1765.14	22.48
1	66	252	1.98	0.62	0.77	1.84	0.42	1758.03	373.47	373.77	1757.73	20.51
1	66	253	1.90	0.65	0.77	1.78	0.36	1756.65	375.00	375.22	1756.43	17.42
1	66	254	1.90	0.62	0.67	1.86	0.24	1761.00	365.64	365.84	1760.80	16.46
1	66	255	1.95	0.57	0.58	1.94	0.14	1765.87	354.23	354.43	1765.66	17.06
1	66	256	1.93	0.58	0.59	1.92	9.20e-02	1766.22	350.91	351.21	1765.92	20.47
1	66	257	1.91	0.59	0.59	1.91	7.58e-02	1765.20	348.26	348.59	1764.88	21.53
1	66	258	1.77	0.67	0.68	1.76	9.27e-02	1757.32	346.59	346.98	1756.93	23.47
1	66	259	1.62	0.75	0.78	1.60	0.15	1746.75	349.78	350.15	1746.38	22.64
1	66	260	1.59	0.76	0.81	1.54	0.19	1739.84	346.00	346.22	1739.61	17.67
1	66	261	1.70	0.68	0.71	1.67	0.16	1739.88	329.73	329.87	1739.75	13.82
1	66	262	1.94	0.51	0.52	1.93	0.12	1743.39	305.77	305.90	1743.27	13.34
1	66	263	2.14	0.36	0.37	2.13	0.15	1742.49	288.02	288.24	1742.26	18.16
1	66	264	2.18	0.32	0.34	2.16	0.20	1735.49	285.46	285.87	1735.08	24.35
1	66	265	2.16	0.31	0.34	2.14	0.20	1730.34	283.79	284.32	1729.81	27.66
1	66	266	1.99	0.39	0.43	1.96	0.24	1705.84	291.35	292.04	1705.15	31.26
1	66	267	1.72	0.51	0.56	1.67	0.24	1675.37	306.90	307.45	1674.82	27.41
1	66	268	1.51	0.56	0.62	1.44	0.24	1649.50	310.29	310.56	1649.23	18.93
1	66	269	1.47	0.48	0.57	1.38	0.28	1636.90	286.60	286.64	1636.86	7.02
1	66	270	1.54	0.35	0.42	1.47	0.27	1640.88	229.61	229.62	1640.87	-3.74
1	66	271	1.67	0.21	0.24	1.64	0.22	1660.28	141.32	141.46	1660.14	-14.83
1	66	272	1.73	0.10	0.11	1.73	0.12	1680.50	75.75	76.08	1680.18	-22.74
1	66	273	0.59	-2.86e-02	-2.04e-02	0.58	7.05e-02	1699.85	92.14	99.79	1692.19	110.67

1	66	274	0.95	5.00e-02	8.44e-02	0.92	0.17	1650.34	226.12	230.91	1645.55	82.40
1	66	275	1.12	0.22	0.28	1.07	0.21	1619.71	321.58	323.51	1617.78	50.02
1	66	276	1.20	0.43	0.46	1.17	0.15	1609.81	371.25	371.49	1609.57	17.37
1	66	277	1.35	0.54	0.54	1.35	1.07e-02	1621.17	376.36	376.41	1621.12	-7.81
1	66	278	1.69	0.50	0.51	1.69	-0.10	1646.06	351.58	352.46	1645.19	-33.60
1	66	279	2.07	0.41	0.41	2.07	-8.08e-02	1668.66	323.44	323.62	1668.48	-15.78
1	66	280	2.29	0.36	0.38	2.28	0.17	1679.03	309.35	309.40	1678.98	8.24
1	66	281	-1.34	-2.85	-2.82	-1.37	-0.20	73.67	-261.66	-72.93	-115.06	166.33
1	66	282	2.35	0.33	0.48	2.21	0.52	1674.20	317.38	318.08	1673.49	30.86
1	66	283	2.17	0.39	0.65	1.91	0.63	1659.15	341.02	341.96	1658.21	35.26
1	66	284	1.89	0.52	0.78	1.63	0.54	1645.69	359.22	359.79	1645.12	27.13
1	66	285	1.65	0.66	0.80	1.51	0.35	1642.75	360.24	360.28	1642.70	7.63
1	66	286	1.61	0.65	0.68	1.58	0.17	1649.69	343.87	343.87	1649.69	1.60
1	66	287	1.75	0.51	0.53	1.73	0.13	1656.92	324.48	324.63	1656.77	14.34
1	66	288	1.78	0.56	0.57	1.77	0.13	1656.82	319.73	320.19	1656.36	24.61
1	66	289	1.80	0.46	0.48	1.78	0.17	1655.98	317.03	317.58	1655.43	27.13
1	66	290	1.72	0.55	0.61	1.66	0.26	1643.12	320.72	321.68	1642.16	35.61
1	66	291	1.55	0.59	0.69	1.46	0.28	1625.86	331.93	332.80	1624.99	33.58
1	66	292	1.42	0.67	0.74	1.35	0.22	1614.74	332.28	332.57	1614.45	19.49
1	66	293	1.42	0.72	0.73	1.41	7.43e-02	1615.88	312.65	312.68	1615.85	6.08
1	66	294	1.66	0.55	0.55	1.66	-3.08e-02	1624.29	278.15	278.17	1624.27	4.79
1	66	295	1.93	0.38	0.39	1.93	7.53e-02	1627.77	251.37	251.66	1627.48	20.00
1	66	296	2.00	0.30	0.32	1.98	0.15	1621.57	245.70	246.66	1620.61	36.43
1	66	297	2.02	0.24	0.25	2.01	0.13	1616.64	244.58	245.72	1615.51	39.43
1	66	298	1.92	0.30	0.38	1.85	0.33	1588.95	259.61	262.21	1586.34	58.79
1	66	299	1.68	0.34	0.47	1.54	0.40	1552.27	287.44	290.11	1549.60	58.03
1	66	300	1.40	0.42	0.53	1.29	0.32	1520.53	304.12	305.16	1519.48	35.64
1	66	301	1.25	0.41	0.49	1.17	0.25	1505.83	285.39	285.40	1505.82	3.47
1	66	302	1.22	0.33	0.36	1.19	0.18	1510.78	225.70	226.25	1510.23	-26.67
1	66	303	1.30	0.19	0.20	1.28	0.12	1530.91	134.56	136.55	1528.92	-52.67
1	66	304	1.38	9.61e-02	9.64e-02	1.38	1.98e-02	1551.39	69.21	72.81	1547.80	-72.91
1	66	305	0.74	-7.64e-02	-3.22e-02	0.69	0.18	1540.75	79.40	102.17	1517.98	181.00
1	66	306	1.17	-6.40e-02	0.11	0.99	0.43	1485.02	227.76	242.16	1470.62	133.78
1	66	307	1.33	8.10e-02	0.36	1.05	0.52	1446.95	337.40	343.05	1441.30	78.97
1	66	308	1.23	0.32	0.57	0.99	0.40	1433.57	388.54	388.90	1433.21	19.30
1	66	309	1.15	0.64	0.68	1.11	0.13	1450.69	373.74	375.34	1449.08	-41.52
1	66	310	1.55	0.61	0.63	1.54	-0.13	1486.97	316.27	320.97	1482.26	-74.07
1	66	311	2.16	0.47	0.47	2.15	-9.68e-02	1516.48	263.08	264.71	1514.86	-45.10
1	66	312	2.55	0.38	0.41	2.51	0.26	1526.83	241.30	241.34	1526.79	6.73
1	66	313	5.21e-02	-0.55	-0.48	-2.36e-02	0.20	466.00	-61.36	332.83	71.81	229.12
1	66	314	2.60	0.24	0.50	2.33	0.74	1513.59	261.55	263.68	1511.46	51.61
1	66	315	2.27	0.23	0.71	1.80	0.86	1485.84	309.75	312.76	1482.84	59.35
1	66	316	1.76	0.39	0.83	1.32	0.64	1461.07	345.74	347.14	1459.67	39.46
1	66	317	1.37	0.69	0.88	1.18	0.30	1456.20	344.48	344.93	1455.75	-22.28
1	66	318	1.32	0.68	0.69	1.32	1.85e-02	1470.42	308.96	309.66	1469.72	-28.47
1	66	319	1.65	0.46	0.46	1.65	2.42e-02	1485.54	272.09	272.12	1485.51	6.21
1	66	320	1.88	0.54	0.56	1.87	0.14	1487.21	260.97	261.66	1486.51	29.15
1	66	321	1.86	0.23	0.29	1.79	0.33	1484.38	258.22	259.35	1483.24	37.32
1	66	322	1.82	0.32	0.47	1.67	0.45	1464.79	272.88	275.70	1461.97	57.95
1	66	323	1.54	0.40	0.62	1.32	0.45	1436.09	309.24	311.78	1433.55	53.41
1	66	324	1.19	0.53	0.70	1.03	0.29	1417.54	322.46	322.95	1417.06	23.06
1	66	325	1.09	0.81	0.81	1.09	1.32e-03	1420.38	291.54	291.83	1420.09	-18.14
1	66	326	1.48	0.54	0.61	1.42	-0.23	1439.01	230.32	230.90	1438.43	-26.49
1	66	327	1.89	0.33	0.34	1.88	-0.13	1453.67	181.69	181.87	1453.49	15.02
1	66	328	2.08	0.33	0.33	2.08	2.48e-02	1451.48	171.08	172.68	1449.88	45.23
1	66	329	2.07	8.89e-02	0.11	2.05	0.19	1445.54	169.58	172.55	1442.57	61.50
1	66	330	1.98	0.21	0.32	1.86	0.44	1413.71	200.91	208.54	1406.07	95.93
1	66	331	1.62	0.25	0.46	1.40	0.50	1366.99	262.92	271.25	1358.66	95.58
1	66	332	1.22	0.29	0.48	1.03	0.38	1325.66	306.18	309.46	1322.38	57.71
1	66	333	1.01	0.38	0.45	0.93	0.20	1307.33	296.07	296.07	1307.33	0.48
1	66	334	0.95	0.30	0.31	0.94	8.11e-02	1315.25	229.49	231.89	1312.85	-50.98
1	66	335	0.99	0.16	0.16	0.99	4.86e-02	1338.14	126.63	133.30	1331.47	-89.63
1	66	336	1.08	6.81e-02	6.96e-02	1.08	-3.92e-02	1359.88	57.64	68.84	1348.68	-120.21
1	66	337	1.11	-3.99e-02	4.87e-02	1.02	0.31	1304.23	51.06	100.83	1254.46	244.72
1	66	338	1.74	-0.12	0.32	1.29	0.79	1253.48	222.76	258.74	1217.49	189.20
1	66	339	1.70	-0.17	0.48	1.04	0.89	1203.04	364.95	379.83	1188.15	110.70
1	66	340	1.38	4.56e-02	0.69	0.73	0.66	1183.36	428.49	428.97	1182.88	19.02
1	66	341	1.03	0.44	0.79	0.68	0.29	1207.82	378.61	386.32	1200.10	-79.60
1	66	342	1.38	0.71	0.75	1.33	-0.17	1253.34	261.19	274.10	1240.43	-112.43
1	66	343	2.36	0.56	0.59	2.33	-0.25	1296.01	155.62	160.46	1291.17	-74.15
1	66	344	3.15	0.81	0.89	3.07	0.42	1305.88	120.46	120.58	1305.75	12.13
1	66	345	-0.10	-0.76	-0.75	-0.11	8.03e-02	568.69	70.60	519.86	119.43	148.11
1	66	346	3.11	0.16	0.66	2.62	1.10	1286.66	166.10	174.01	1278.76	93.76
1	66	347	2.35	-1.12e-02	0.75	1.58	1.10	1239.32	267.24	278.14	1228.42	102.35
1	66	348	1.53	0.21	0.88	0.87	0.66	1202.14	344.00	348.22	1197.92	60.05
1	66	349	0.92	0.54	0.76	0.70	0.19	1190.06	337.22	338.34	1188.95	-30.86

1	66	350	1.33	0.54	0.65	1.22	-0.27	1211.90	254.52	259.84	1206.58	-71.17
1	66	351	1.66	0.14	0.16	1.63	-0.19	1240.81	178.43	179.31	1239.93	-30.63
1	66	352	2.19	0.29	0.29	2.19	3.24e-02	1244.43	149.85	151.09	1243.19	36.77
1	66	353	2.22	-0.33	-0.22	2.11	0.52	1247.21	149.93	152.74	1244.39	55.51
1	66	354	2.28	0.24	0.60	1.92	0.78	1217.03	197.19	207.24	1206.97	100.77
1	66	355	1.41	8.54e-02	0.57	0.93	0.64	1174.33	288.29	296.96	1165.66	87.24
1	66	356	1.26	0.44	1.04	0.66	0.36	1147.31	336.13	337.19	1146.25	29.23
1	66	357	0.71	0.55	0.69	0.57	-5.08e-02	1148.89	273.26	274.78	1147.37	-36.49
1	66	358	1.62	0.33	0.65	1.30	-0.55	1177.62	153.79	157.84	1173.57	-64.29
1	66	359	2.09	-9.33e-02	-2.14e-04	1.99	-0.44	1208.01	58.98	59.09	1207.90	-11.34
1	66	360	2.31	0.29	0.30	2.30	-0.18	1208.88	36.62	39.54	1205.96	58.46
1	66	361	2.59	-0.38	-0.31	2.52	0.44	1212.38	34.48	41.81	1205.04	92.65
1	66	362	2.39	0.21	0.54	2.07	0.77	1175.93	102.83	126.10	1152.66	156.30
1	66	363	1.39	2.19e-02	0.43	0.98	0.63	1122.49	229.91	255.86	1096.53	149.98
1	66	364	0.99	0.23	0.52	0.70	0.37	1070.37	326.10	336.05	1060.43	85.45
1	66	365	0.57	0.33	0.35	0.55	6.64e-02	1040.65	326.39	326.40	1040.64	-1.78
1	66	366	0.85	0.16	0.18	0.83	-0.12	1049.77	233.93	241.59	1042.10	-78.69
1	66	367	1.00	-2.97e-02	-2.82e-02	1.00	-3.95e-02	1078.68	104.51	120.84	1062.35	-125.07
1	66	368	0.73	-5.27e-02	-3.83e-02	0.72	0.11	1090.14	31.03	55.37	1065.79	-158.72
1	66	369	3.47	2.08	2.34	3.21	0.54	1004.57	2.65	95.12	912.10	290.00
1	66	370	2.50	-1.27	0.35	0.88	1.86	951.47	177.13	268.18	860.42	249.42
1	66	371	1.80	-0.20	0.69	0.91	0.99	904.34	401.01	437.31	868.04	130.21
1	66	372	1.37	-0.16	0.68	0.54	0.76	865.26	499.21	499.27	865.20	-4.70
1	66	373	1.00	1.45e-02	0.56	0.45	0.49	893.06	402.21	423.59	871.68	-100.19
1	66	374	0.58	0.18	0.19	0.58	2.48e-02	945.04	173.50	214.79	903.74	-173.66
1	66	375	2.59	-0.82	-0.19	1.95	-1.33	964.30	-44.70	-18.18	937.78	-161.42
1	66	376	6.98	4.49	5.61	5.86	1.24	1044.34	-71.56	-70.85	1043.63	28.11
1	66	377	-0.15	-0.64	-0.56	-0.23	0.18	534.32	101.87	530.74	105.45	39.18
1	66	378	2.75	-1.16	-0.12	1.71	1.73	950.13	-4.14	28.72	917.27	174.01
1	66	379	1.93	3.94e-02	0.86	1.12	0.94	937.44	208.99	251.40	895.02	170.58
1	66	380	1.01	0.13	0.57	0.57	0.44	875.75	363.32	379.18	859.88	88.75
1	66	381	0.71	0.33	0.65	0.40	0.14	845.52	365.41	365.76	845.17	-12.92
1	66	382	0.61	-0.48	-0.11	0.24	-0.51	869.08	182.73	199.61	852.20	-106.31
1	66	383	3.64	-1.49	-2.10e-02	2.18	-2.32	870.78	14.80	24.25	861.33	-89.44
1	66	384	6.66	-0.43	0.44	5.79	2.32	954.63	-47.37	-42.50	949.76	69.65
1	66	385	4.31	-2.20	4.66e-02	2.07	3.09	902.02	-52.18	-39.31	889.15	110.06
1	66	386	0.96	-0.62	-0.43	0.78	0.51	882.77	57.63	88.57	851.82	156.77
1	66	387	1.38	9.66e-02	0.69	0.79	0.64	856.11	273.94	306.82	823.24	134.39
1	66	388	0.97	8.80e-02	0.70	0.36	0.41	812.04	366.09	369.39	808.74	38.21
1	66	389	0.79	0.22	0.78	0.23	7.94e-02	807.84	284.66	291.87	800.63	-60.99
1	66	390	0.71	-0.57	0.16	-1.73e-02	-0.63	832.33	49.52	68.02	813.82	-118.93
1	66	391	4.50	-2.10	7.10e-02	2.33	-3.10	827.98	-151.90	-145.01	821.09	-81.90
1	66	392	7.92	0.47	0.91	7.48	1.75	934.11	-192.97	-185.94	927.08	88.75
1	66	393	4.90	-2.63	-9.23e-02	2.36	3.56	865.50	-219.52	-190.99	836.97	173.60
1	66	394	0.95	-0.44	-0.23	0.74	0.50	865.35	-71.29	-7.00	801.06	236.82
1	66	395	1.30	0.23	0.74	0.79	0.53	844.80	187.16	267.05	764.91	214.84
1	66	396	0.71	0.17	0.50	0.38	0.26	777.65	355.87	389.41	744.10	114.12
1	66	397	0.38	0.23	0.36	0.25	-5.65e-02	721.96	384.82	384.82	721.96	-0.31
1	66	398	0.34	-0.87	-0.47	-5.73e-02	-0.57	722.76	230.09	253.72	699.13	-105.27
1	66	399	2.02	-1.74	-0.94	1.22	-1.54	723.85	33.06	75.89	681.02	-166.59
1	66	400	3.81	0.85	1.00	3.66	0.66	750.28	-11.83	24.76	713.68	-162.94
1	66	401	4.73	-1.78	-3.96e-02	2.99	-2.88	489.92	-213.87	-81.32	357.37	275.17
1	66	402	0.91	-0.83	0.42	-0.35	-0.78	632.24	39.38	268.95	402.67	288.79
1	66	403	2.23	1.29	1.73	1.79	0.47	649.59	399.53	548.98	500.15	122.62
1	66	404	0.87	-0.13	0.32	0.42	0.50	601.80	498.00	588.61	511.19	-34.58
1	66	405	0.61	-0.30	-0.11	0.42	0.37	605.03	378.73	489.94	493.81	-113.14
1	66	406	2.11	0.49	0.49	2.11	2.95e-02	577.09	113.13	237.72	452.49	-205.63
1	66	407	-3.01	-5.08	-3.04	-5.05	0.27	463.70	-398.98	-280.44	345.15	-297.01
1	66	408	7.90	2.90	7.83	2.97	-0.58	501.00	-623.84	-622.80	499.97	34.13
1	66	409	0.69	-1.65	-4.23e-02	-0.92	1.08	346.20	4.20	346.19	4.21	2.12
1	66	410	1.29	-1.97	0.96	-1.63	-1.00	516.07	-236.07	-107.45	387.46	283.18
1	66	411	2.26	1.04	1.05	2.25	-0.12	563.11	192.58	294.13	461.57	165.27
1	66	412	0.58	-0.35	-0.28	0.51	0.24	567.38	345.94	434.76	478.56	108.53
1	66	413	0.32	-0.20	-4.65e-02	0.16	0.24	462.85	420.25	421.63	461.47	-7.54
1	66	414	1.56	0.72	0.91	1.37	-0.35	460.35	181.36	225.68	416.03	-101.98
1	66	415	-3.34	-8.53	-4.68	-7.18	-2.27	361.52	-332.64	-270.71	299.59	-197.87
1	66	416	12.79	5.71	5.91	12.59	1.17	305.58	-350.63	-349.37	304.32	28.70
1	66	417	4.65	-3.50	2.16	-1.01	3.75	383.38	-488.08	-444.84	340.14	189.24
1	66	418	4.39	2.98	3.28	4.09	0.58	525.96	-35.52	89.77	400.67	233.78
1	66	419	1.19	0.18	0.48	0.88	0.46	510.04	253.88	338.52	425.40	120.49
1	66	420	0.48	-0.21	4.14e-02	0.23	0.33	485.23	390.07	426.87	448.43	46.34
1	66	421	0.15	-0.37	-0.15	-7.18e-02	0.26	450.70	297.76	330.46	418.01	-62.70
1	66	422	1.86	1.03	1.44	1.46	-0.41	416.71	10.06	68.53	358.25	-142.68
1	66	423	-2.62	-9.63	-3.88	-8.37	-2.69	288.63	-563.26	-509.88	235.25	-206.46
1	66	424	14.81	7.82	7.82	14.80	-0.24	248.42	-564.30	-558.29	242.41	69.64
1	66	425	3.54	-4.31	2.48	-3.25	2.68	354.62	-697.07	-614.28	271.83	283.22

1	66	426	4.61	3.23	3.57	4.28	0.59	538.57	-203.65	-10.67	345.59	325.56
1	66	427	0.94	0.40	0.60	0.74	0.26	576.10	106.19	297.87	384.43	230.94
1	66	428	0.34	4.43e-02	0.20	0.18	0.15	574.68	300.47	460.77	414.38	135.13
1	66	429	6.68e-02	-4.14e-02	6.67e-02	-4.12e-02	3.77e-03	467.20	384.38	461.56	390.02	20.87
1	66	430	1.74	0.44	1.29	0.89	-0.62	425.72	235.81	329.40	332.13	-94.95
1	66	431	-2.92	-9.06	-5.46	-6.52	-3.03	250.82	-193.29	-69.27	126.79	-199.24
1	66	432	9.72	-4.67	-4.66	9.71	-0.38	157.46	-224.68	-189.66	122.44	-110.26
1	66	433	4.00	-3.13	-2.90	3.78	-1.25	442.65	-17.44	397.69	27.52	136.62
1	66	434	0.16	-1.30	-1.28	0.15	0.14	623.75	115.65	604.40	135.00	97.26
1	66	435	3.15e-02	-0.32	-0.32	2.87e-02	3.16e-02	689.69	170.39	686.33	173.75	-41.62
1	66	436	4.91e-02	-0.83	-0.71	-7.71e-02	-0.31	594.07	116.85	562.98	147.95	-117.78
1	66	437	-1.76	-3.34	-1.87	-3.23	0.41	286.68	-82.21	185.70	18.77	-164.48
1	66	438	8.82	-3.03	8.41	-2.62	-2.17	-175.45	-342.15	-284.10	-233.50	-79.41
1	66	439	5.62	-0.35	2.94	2.33	-2.97	-13.30	-293.97	-24.55	-282.72	55.05
1	66	440	3.76	-1.61	2.57	-0.42	2.23	106.97	-145.71	38.92	-77.66	112.09
1	66	441	-2.53	-2.97	-2.74	-2.75	0.22	295.67	10.62	260.01	46.28	94.30
1	66	442	0.22	-1.21	-1.00	1.41e-02	0.50	527.71	105.52	497.34	135.89	109.08
1	66	443	-0.15	-1.18	-1.13	-0.20	0.22	475.86	123.99	475.86	123.99	-2.73e-02
1	66	444	-0.92	-4.24	-1.81	-3.35	1.47	188.92	-5.75	182.58	0.60	-34.57
1	66	445	8.89	-1.40	7.59	-9.71e-02	-3.43	-164.14	-353.27	-243.82	-273.58	93.39
1	66	447	2.17	-5.35	-4.33	1.15	2.57	237.71	-21.52	235.51	-19.31	-23.81
1	66	448	6.39	-8.71	-4.35	2.03	6.84	261.98	-268.05	249.16	-255.22	-81.45
1	66	449	26.96	9.67	17.71	18.92	8.62	509.77	54.40	106.28	457.90	144.68
1	66	450	9.11	-2.23e-02	0.59	8.51	2.28	1302.95	-27.21	-14.88	1290.61	127.51
1	66	451	4.02	-0.54	-0.53	4.02	-0.18	1552.25	-17.50	-12.57	1547.33	87.80
1	66	452	3.64	4.79e-03	5.23e-03	3.64	-3.97e-02	1704.78	-14.07	-12.66	1703.36	49.24
1	66	453	2.93	5.36e-02	5.41e-02	2.93	3.84e-02	1771.36	-15.65	-15.40	1771.12	20.84
1	66	454	2.29	6.05e-02	6.26e-02	2.28	6.92e-02	1766.41	-16.95	-16.92	1766.39	-6.83
1	66	455	1.80	5.09e-02	5.57e-02	1.80	9.16e-02	1695.59	-19.76	-19.57	1695.40	-18.05
1	66	456	1.50	5.12e-02	5.99e-02	1.50	0.11	1561.39	-24.40	-23.64	1560.64	-34.65
1	66	457	1.40	7.05e-03	2.09e-02	1.38	0.14	1357.52	-33.43	-31.83	1355.92	-47.14
1	66	458	1.53	-0.10	-4.58e-02	1.48	0.30	1071.89	-45.09	-43.19	1069.99	-46.00
1	66	459	-0.51	-4.78	-3.23	-2.06	2.05	612.67	-106.76	-106.38	612.29	-16.58
1	66	460	0.86	-1.43	0.48	-1.05	-0.85	132.23	-5.72	-0.93	127.43	25.28
1	66	461	2.69	1.03	2.11	1.61	0.79	100.51	-144.27	88.69	-132.45	-52.46
1	66	462	6.69	-6.50	2.01	-1.83	-6.31	116.93	-260.92	100.64	-244.63	76.74
1	66	463	15.44	4.95	7.80	12.59	-4.67	312.94	-8.70	66.90	237.33	-136.38
1	66	464	7.12	-0.21	0.30	6.61	-1.86	1106.29	-33.87	-11.74	1084.16	-157.28
1	66	465	1.84	-0.36	-0.36	1.84	-6.04e-02	1482.56	-13.76	-2.57	1471.37	-128.91
1	66	466	1.10	-0.12	-0.11	1.10	6.49e-02	1702.52	-5.10	-1.36	1698.77	-79.87
1	66	467	0.63	-8.16e-02	-8.10e-02	0.63	2.05e-02	1818.92	-4.34	-3.42	1817.99	-41.02
1	66	468	0.28	-5.60e-02	-5.39e-02	0.28	-2.65e-02	1855.61	-4.34	-4.30	1855.57	-8.69
1	66	469	8.91e-02	-7.28e-02	-5.38e-02	7.01e-02	-5.21e-02	1822.16	-6.26	-5.64	1821.54	33.68
1	66	470	4.33e-02	-8.56e-02	-4.89e-02	6.63e-03	-5.81e-02	1721.67	-9.84	-7.27	1719.10	66.68
1	66	471	0.12	-8.77e-02	-5.99e-02	9.61e-02	-7.14e-02	1549.69	-16.97	-10.48	1543.21	100.60
1	66	472	0.30	-0.45	-0.39	0.24	-0.20	1291.18	-30.24	-17.96	1278.90	126.81
1	66	473	3.31e-02	-2.85	-2.36	-0.46	-1.09	856.61	-76.47	-58.30	838.44	128.93
1	66	474	1.15	4.35e-02	0.22	0.98	0.40	274.24	-4.60	42.34	227.30	104.33
1	66	475	3.55	-16.88	3.37	-16.69	1.92	488.09	-115.50	-110.05	482.64	57.07
1	66	476	17.86	-33.41	17.34	-32.90	5.12	1066.17	-655.20	-655.08	1066.04	-14.42
1	66	477	12.99	-30.38	11.15	-28.55	8.73	940.97	-472.18	-470.90	939.69	42.50
1	66	478	-9.22e-02	-8.59	-0.16	-8.52	0.77	690.08	-1027.30	-1026.92	689.69	-25.63
1	66	479	0.16	-8.89	-2.32	-6.41	-4.04	295.16	-201.85	-182.86	276.18	-95.26
1	66	480	26.67	9.11	18.51	17.26	8.76	446.24	-726.42	-726.36	446.19	7.83
1	66	481	-0.43	-2.67	-0.93	-2.17	0.94	-84.17	-205.54	-85.58	-204.12	13.04
1	66	482	-0.80	-2.77	-2.61	-0.96	-0.54	391.62	-85.61	391.49	-85.47	8.09
1	66	483	-0.42	-2.25	-2.21	-0.45	-0.25	493.59	-97.37	491.71	-95.49	33.24
1	66	484	-0.16	-2.20	-2.18	-0.18	0.17	374.74	-96.25	373.42	-94.93	24.89
1	66	485	-0.74	-4.47	-4.19	-1.01	-0.98	36.26	-115.39	36.00	-115.12	-6.33
1	66	486	10.14	-1.27	4.33	4.54	5.70	-145.37	-855.54	-795.38	-205.54	197.76
1	66	487	22.89	14.39	19.65	17.63	4.13	278.68	-1034.17	-1033.37	277.88	-32.44
1	66	488	9.22e-03	-3.15	-1.07	-2.07	1.50	-124.55	-242.32	-178.41	-188.47	58.67
1	66	489	-0.68	-2.42	-2.22	-0.88	-0.55	339.83	-101.01	332.54	-93.72	56.20
1	66	490	-0.33	-1.88	-1.84	-0.37	-0.26	535.89	-108.34	527.62	-100.07	72.54
1	66	491	-0.24	-2.11	-2.06	-0.30	0.31	550.15	-106.44	543.10	-99.40	67.65
1	66	492	-3.66	-5.32	-5.17	-3.81	0.48	366.91	-165.89	360.31	-159.29	58.93
1	66	493	10.64	5.19	6.68	9.16	2.43	263.41	-42.78	256.00	-35.37	47.05
1	66	494	0.18	-2.22	-1.26	-0.77	1.17	645.52	-77.89	643.18	-75.56	41.06
1	66	495	-0.40	-1.98	-1.98	-0.40	-3.16e-02	720.69	-69.37	719.65	-68.33	-28.57
1	66	496	-0.38	-1.60	-1.58	-0.40	0.15	582.87	-71.49	582.51	-71.13	-15.28
1	66	497	1.17	-2.10	-1.19	0.27	-1.46	228.95	-84.62	212.63	-68.30	-69.65
1	66	498	9.43	-6.47	5.06	-2.09	7.10	-207.13	-664.13	-610.63	-260.63	146.93
1	66	499	13.44	2.96	4.14	12.26	-3.31	117.56	-100.62	-56.74	73.68	87.45
1	66	500	9.95	-3.41	7.57	-1.03	-5.11	-246.88	-432.10	-359.11	-319.86	-90.51
1	66	501	3.15	-1.31	3.26e-02	1.81	2.04	331.38	-48.20	320.48	-37.30	63.41
1	66	502	-0.30	-1.69	-1.68	-0.31	-9.68e-02	519.67	-88.74	511.54	-80.62	69.84

1	66	503	-0.16	-2.19	-2.19	-0.16	6.82e-02	487.39	-89.87	483.32	-85.81	48.28
1	66	504	-0.49	-4.08	-3.68	-0.88	-1.12	240.43	-103.81	240.36	-103.74	4.97
1	66	505	8.31	-0.66	2.65	5.00	4.32	-137.03	-504.16	-446.03	-195.16	134.02
1	66	506	15.02	7.20	8.91	13.31	3.23	-129.75	-303.11	-166.73	-266.12	71.02
1	66	507	3.31	-1.66	-1.54	3.19	0.76	-109.78	-194.70	-137.34	-167.15	39.76
1	66	508	-0.18	-4.42	-4.40	-0.21	-0.35	728.35	9.28	726.49	11.14	36.54
1	66	509	0.64	-2.16	-1.21	-0.32	-1.33	581.67	-21.52	561.88	-1.72	-107.46
1	66	510	-0.11	-4.46	-4.40	-0.17	0.51	602.45	-27.78	566.79	7.87	145.61
1	66	511	6.02	-0.90	0.32	4.80	2.64	272.80	-219.29	-8.20	61.70	243.55
1	66	512	4.12	-38.52	-5.86	-28.55	-18.05	-382.79	-1189.68	-1161.94	-410.53	-147.01
1	66	513	21.79	11.88	14.26	19.41	-4.23	64.06	-1279.06	-1278.28	63.28	32.31
1	66	514	18.32	-6.03	14.42	-2.14	8.93	-194.37	-1418.69	-1416.93	-196.13	46.41
1	66	515	11.01	-0.17	8.79	2.05	-4.46	188.09	-295.19	-165.06	57.96	-214.37
1	66	516	0.44	-2.72	-1.93	-0.35	-1.36	588.22	-43.24	540.15	4.83	-167.46
1	66	517	-0.26	-5.05	-5.02	-0.29	-0.38	815.76	12.65	813.86	14.56	-39.05
1	66	518	-0.45	-5.45	-5.44	-0.46	0.22	805.94	1.17	797.84	9.28	80.35
1	66	519	1.44	-3.69	-3.41	1.16	1.16	529.38	-29.53	466.18	33.67	177.00
1	66	520	-3.62	-21.23	-10.36	-14.49	-8.56	-109.88	-272.41	-243.36	-138.93	62.27
1	66	521	-0.47	-5.39	-3.05	-2.81	2.46	265.51	-83.16	238.64	-56.29	-92.99
1	66	522	7.16	-11.59	-9.01	4.58	6.46	68.58	-246.85	-244.36	66.09	27.93
1	66	523	1.37	-2.62	-2.03	0.78	-1.42	791.75	-12.74	776.79	2.22	-108.67
1	66	524	-0.41	-4.61	-4.61	-0.42	-7.32e-02	895.95	-5.68	895.14	-4.87	-27.04
1	66	525	5.21e-02	-3.77	-3.65	-6.77e-02	0.67	764.49	-24.36	744.73	-4.60	123.29
1	66	526	7.44	-1.02e-02	3.45	3.98	3.71	402.30	-106.81	268.82	26.67	223.92
1	66	527	7.50	-25.95	1.00	-19.46	-13.23	-321.72	-730.71	-727.15	-325.28	-37.97
1	66	528	11.96	-4.43	-3.99	11.52	-2.65	261.26	-1320.99	-1319.96	260.22	40.38
1	66	529	18.80	-9.53	-5.45	14.72	-9.95	-72.70	-345.92	-330.79	-87.83	62.49
1	66	530	8.67	-18.41	5.23	-14.97	9.02	-270.25	-423.13	-416.44	-276.94	31.28
1	66	531	8.05	-0.32	3.34	4.39	-4.15	473.60	-20.75	414.42	38.43	-160.48
1	66	532	0.12	-4.73	-4.60	-5.27e-03	-0.78	700.92	4.19	700.20	4.90	22.34
1	66	533	-0.30	-5.62	-5.61	-0.31	0.21	679.03	-21.19	655.14	2.69	127.10
1	66	534	4.67	-2.79	-2.19	4.06	2.04	367.71	-114.48	209.63	43.59	226.35
1	66	535	3.95e-02	-34.15	-8.70	-25.41	-14.91	-341.37	-824.27	-809.17	-356.47	-84.04
1	66	536	17.29	1.12	6.90	11.52	-7.75	53.58	-1061.04	-1060.13	52.67	31.92
1	66	537	17.78	5.74	17.62	5.91	1.39	-81.70	-1059.42	-1058.83	-82.29	-24.00
1	66	538	11.24	-0.80	9.65	0.79	-4.08	131.15	-135.32	-43.49	39.32	-126.64
1	66	539	-4.76	-15.74	-7.67	-12.84	4.84	31.03	-198.19	-128.96	-38.20	105.24
1	66	540	-3.59	-13.28	-10.41	-6.47	-4.42	10.74	-194.97	-121.42	-62.82	-98.59
1	70	1	0.86	-0.93	-0.53	0.46	-0.74	-451.22	-992.23	-783.32	-660.13	263.40
1	70	3	1.32	-1.38	-1.31	1.25	0.44	-424.48	-944.80	-759.78	-609.51	-249.07
1	70	6	2.71	-11.21	-2.62	-5.87	6.77	-1410.57	-2697.05	-2685.47	-1422.15	-121.49
1	70	9	7.00	-8.38	-2.59	1.21	-7.46	-1323.38	-2637.96	-2633.25	-1328.08	78.49
1	70	11	6.60	-14.56	-3.51	-4.46	10.57	-1167.53	-2193.60	-2190.33	-1170.79	-57.80
1	70	13	10.26	-11.32	-2.64	1.58	-10.58	-1106.70	-2134.23	-2134.22	-1106.71	3.48
1	70	15	2.96	-2.93	2.77	-2.74	-1.04	-1359.05	-2268.36	-2260.40	-1367.00	84.67
1	70	17	4.54	-2.93	4.42	-2.81	0.92	-1292.88	-2230.68	-2223.18	-1300.38	-83.54
1	70	19	0.72	-0.24	0.32	0.17	0.47	-437.33	-910.05	-714.36	-633.02	-232.84
1	70	21	0.25	-0.51	-0.44	0.18	0.23	-415.83	-877.76	-696.43	-597.16	225.57
1	70	22	5.11	-2.49	4.59	-1.97	1.92	496.09	-304.39	-224.46	416.15	-240.00
1	70	23	2.43	-0.62	-0.47	2.28	0.66	685.29	31.54	295.38	421.44	-320.74
1	70	24	3.28	-2.90	1.51	-1.13	2.80	501.97	11.71	409.88	103.80	-191.49
1	70	25	1.08	0.12	0.53	0.67	-0.47	712.11	437.63	624.09	525.65	-128.11
1	70	26	0.67	-2.41	-2.37	0.64	-0.32	708.60	212.10	679.88	240.82	-115.91
1	70	27	0.51	-0.52	-0.48	0.47	-0.20	719.39	540.19	705.96	553.62	47.18
1	70	28	2.91e-02	-1.62	-1.62	2.90e-02	-1.28e-02	801.49	271.55	795.48	277.55	56.10
1	70	29	1.16	-0.94	-0.93	1.16	7.23e-02	792.41	339.18	587.33	544.26	225.59
1	70	30	0.55	-2.18	-1.81	0.18	0.93	772.99	140.64	659.85	253.78	242.37
1	70	31	2.68	0.13	0.39	2.42	-0.77	733.85	26.80	266.42	494.23	334.67
1	70	32	-0.13	-6.30	-5.97	-0.46	1.40	504.65	-177.62	196.64	130.38	339.52
1	70	33	4.96	-3.12	-2.01	3.85	-2.78	584.48	-624.12	-367.06	327.41	494.58
1	70	34	9.74	-8.87	9.72	-8.85	0.53	-14.82	-494.91	-323.98	-185.75	229.88
1	70	35	14.77	-14.72	14.71	-14.66	-1.33	595.40	-1141.86	-1141.25	594.79	32.43
1	70	36	11.16	-10.59	-0.98	1.55	-10.81	-743.29	-1315.91	-1289.36	-769.84	120.41
1	70	37	2.98	-3.04	-0.78	0.72	2.91	261.79	-183.62	14.12	64.05	221.30
1	70	38	3.88	-2.90	-2.43	3.40	1.73	529.42	-408.73	-215.27	335.95	-379.57
1	70	39	8.27	-8.95	7.87	-8.55	-2.60	59.32	-264.83	-137.98	-67.53	-158.20
1	70	40	2.11	-0.36	-8.15e-02	1.82	0.79	634.64	194.28	311.24	517.67	-194.49
1	70	41	0.19	-6.12	-5.67	-0.25	-1.61	422.67	15.93	277.40	161.19	-194.89
1	70	42	1.08	-1.08	-1.07	1.07	-0.18	629.09	478.41	546.29	561.21	-74.97
1	70	43	0.55	-2.42	-2.11	0.24	-0.91	633.97	246.43	617.78	262.62	-77.53
1	70	44	0.83	-0.72	-0.72	0.83	-9.16e-03	649.92	463.58	547.52	565.99	92.71
1	70	45	6.98e-02	-2.06	-2.04	4.18e-02	0.24	642.96	238.82	617.41	264.37	98.35
1	70	46	1.39	1.24	1.28	1.36	-6.65e-02	665.10	184.32	317.39	532.03	215.11
1	70	47	-1.16	-4.65	-4.64	-1.17	0.20	431.78	3.52	271.33	163.97	207.29
1	70	48	2.48	0.99	1.57	1.90	-0.73	607.84	-387.77	-217.79	437.86	374.62
1	70	49	9.32	-5.34	9.32	-5.34	9.24e-02	-82.32	-268.73	-188.79	-162.26	92.26

1	70	50	27.34	1.44	27.34	1.44	2.23e-02	754.63	-471.76	-458.77	741.64	125.52
1	70	51	3.18	-1.53	3.09	-1.45	-0.63	695.47	-748.98	-682.08	628.58	-303.55
1	70	52	12.98	-9.46	0.10	3.42	11.10	-819.10	-1291.70	-1278.53	-832.27	-77.78
1	70	53	5.51	-1.16	-0.85	5.20	-1.40	597.67	-126.64	53.57	417.46	-313.13
1	70	54	3.12	-5.40	-3.25	0.98	-3.70	246.00	-184.63	-5.63	67.00	-212.23
1	70	55	2.13	-1.33	-0.90	1.71	-1.14	676.98	296.42	440.66	532.73	-184.63
1	70	56	1.35	-2.14	-1.23	0.43	-1.53	586.81	141.00	494.17	233.64	-180.88
1	70	57	0.73	-0.75	-0.60	0.58	-0.45	596.58	551.97	586.93	561.62	-18.36
1	70	58	0.22	-1.55	-1.45	0.13	-0.39	665.93	275.84	665.24	276.53	-16.43
1	70	59	0.91	-0.55	-0.55	0.91	-2.87e-02	670.42	363.64	483.53	550.52	149.69
1	70	60	0.20	-1.78	-1.62	3.48e-02	0.54	615.84	181.61	546.61	250.85	158.96
1	70	61	2.10	1.27	1.43	1.94	-0.32	625.18	15.20	148.92	491.47	252.36
1	70	62	-1.55	-4.97	-4.81	-1.71	0.71	331.30	-154.84	63.26	113.20	241.79
1	70	63	3.79	-0.47	2.52	0.79	-1.95	540.16	-667.90	-517.57	389.83	398.76
1	70	64	11.55	-5.64	11.40	-5.49	1.60	-324.76	-545.37	-527.45	-342.67	60.25
1	70	65	31.95	-3.32	31.88	-3.25	1.59	722.56	-760.24	-757.91	720.23	58.82
1	70	66	4.56	-2.10	3.86	-1.40	2.05	650.61	-1011.23	-881.16	520.53	-446.37
1	70	67	10.88	-3.46	6.02	1.40	6.78	-814.98	-1358.93	-1337.91	-836.00	-104.84
1	70	68	5.14	-2.53e-02	0.19	4.93	-1.03	655.48	-305.47	-50.08	400.10	-424.49
1	70	69	1.12	-5.50	-3.94	-0.45	-2.81	303.61	-430.26	-161.41	34.76	-353.59
1	70	70	1.82	-0.96	-0.71	1.57	-0.80	791.89	140.72	418.98	513.63	-322.13
1	70	71	1.08	-1.97	-1.16	0.27	-1.34	702.72	-12.42	469.33	220.96	-335.31
1	70	72	0.43	-0.50	-0.41	0.34	-0.27	774.89	441.05	668.87	547.06	-155.42
1	70	73	0.11	-1.38	-1.29	1.34e-02	-0.37	809.26	220.90	755.14	275.02	-170.04
1	70	74	0.51	-0.29	-0.15	0.37	0.31	705.61	537.48	699.79	543.30	30.74
1	70	75	-7.27e-02	-1.23	-1.22	-8.78e-02	0.13	789.36	269.50	788.26	270.60	23.88
1	70	76	2.09	0.17	1.08	1.18	0.96	721.22	310.57	538.03	493.76	204.13
1	70	77	0.40	-1.88	-1.87	0.38	0.18	640.90	132.46	571.71	201.64	174.32
1	70	78	2.85	1.34	1.40	2.79	-0.29	654.64	-147.45	116.35	390.84	376.83
1	70	79	4.67	-1.69	2.05	0.92	-3.13	258.76	-170.59	163.96	-75.79	178.09
1	70	80	7.02	-0.84	5.27	0.91	-3.26	523.48	-242.16	-171.60	452.92	221.46
1	70	81	4.14	2.32	2.84	3.62	-0.82	1131.93	-14.27	65.44	1052.22	-291.55
1	70	82	4.09	0.24	1.40	2.94	-1.77	1102.45	208.63	294.52	1016.56	-263.43
1	70	83	2.70	-9.25e-02	1.12	1.49	-1.38	1026.89	477.08	507.23	996.75	-125.17
1	70	84	1.36	0.23	0.92	0.67	-0.55	998.81	575.06	578.69	995.18	39.05
1	70	85	1.01	0.79	0.80	1.00	3.13e-02	1079.38	422.09	488.19	1013.28	197.69
1	70	86	3.61	0.28	0.71	3.18	1.12	1174.16	135.03	236.27	1072.92	308.14
1	70	87	4.72	5.69e-02	6.89e-02	4.71	0.24	1226.50	-183.96	-113.80	1156.34	306.65
1	70	88	7.92	3.98	7.30	4.59	-1.43	1294.66	-252.90	-251.84	1293.61	40.40
1	70	89	1.43	-1.82	-0.93	0.54	1.45	586.79	135.76	493.01	229.55	183.04
1	70	90	4.44	0.25	0.26	4.43	0.21	1186.69	-99.02	-60.52	1148.19	-219.13
1	70	91	3.59	0.20	0.98	2.81	-1.43	1126.31	232.02	272.66	1085.66	-186.27
1	70	92	1.16	0.82	0.94	1.04	-0.16	1058.72	446.40	454.02	1051.11	-67.87
1	70	93	1.63	0.51	1.15	0.99	0.55	1067.50	450.21	459.35	1058.35	74.58
1	70	94	4.19	-3.07e-02	1.40	2.76	2.00	1148.48	250.09	288.54	1110.03	181.83
1	70	95	7.30	-1.04	0.46	5.81	3.20	1216.75	4.29	32.72	1188.32	183.46
1	70	96	10.58	-2.08	-1.22	9.73	-3.18	1284.42	-96.88	-96.56	1284.10	-20.92
1	70	97	5.89	-2.56	0.39	2.95	-4.03	1216.96	-110.28	-104.03	1210.71	-90.86
1	70	98	2.04	-0.11	-0.11	2.03	-8.15e-02	1169.35	40.27	79.19	1130.44	-205.98
1	70	99	1.59	6.44e-02	0.29	1.36	-0.54	1086.32	342.41	376.43	1052.31	-155.39
1	70	100	0.95	0.58	0.64	0.88	-0.14	1038.77	484.33	484.92	1038.18	-18.08
1	70	101	1.56	0.49	1.05	0.99	0.53	1072.01	381.02	404.35	1048.68	124.80
1	70	102	4.17	0.10	1.42	2.85	1.91	1153.70	98.54	144.07	1108.17	214.40
1	70	103	8.02	-1.52	0.77	5.73	4.07	1215.15	-184.86	-164.37	1194.66	168.14
1	70	104	13.44	-0.87	-0.52	13.10	-2.19	1320.99	-251.42	-249.08	1318.65	-60.58
1	70	105	7.18	-3.02	0.49	3.66	-4.84	1231.42	-297.65	-273.94	1207.70	-188.94
1	70	106	2.43	0.18	0.24	2.37	-0.35	1195.07	-101.59	-15.27	1108.75	-323.22
1	70	107	1.45	0.25	0.49	1.21	-0.48	1119.38	254.22	355.60	1018.00	-278.27
1	70	108	0.66	0.62	0.65	0.63	-1.66e-02	1030.54	510.66	549.07	992.12	-136.00
1	70	109	1.41	0.10	0.87	0.64	0.64	985.80	568.86	571.21	983.45	31.20
1	70	110	2.91	-0.17	0.94	1.80	1.47	1051.67	373.96	431.45	994.18	188.83
1	70	111	4.71	-0.67	0.36	3.69	2.11	1118.45	97.19	187.88	1027.76	290.50
1	70	112	4.55	1.38	1.38	4.55	-5.78e-02	1131.91	-9.59	69.36	1052.96	289.64
1	70	113	3.10	9.11e-02	0.24	2.96	-0.65	1512.47	55.39	100.93	1466.93	-253.55
1	70	114	3.08	5.63e-02	0.67	2.47	-1.22	1450.66	251.43	280.39	1421.70	-184.10
1	70	115	2.56	0.14	1.03	1.66	-1.17	1398.86	419.54	427.76	1390.65	-89.31
1	70	116	1.81	0.61	1.28	1.14	-0.59	1388.41	483.80	484.74	1387.48	29.10
1	70	117	1.53	1.26	1.35	1.44	0.13	1437.93	412.02	430.80	1419.14	137.53
1	70	118	2.99	0.90	1.10	2.78	0.63	1515.68	253.84	284.12	1485.41	193.10
1	70	119	4.05	0.92	0.95	4.01	0.32	1582.13	98.08	115.13	1565.08	158.16
1	70	120	4.34	1.57	1.61	4.30	-0.32	1607.34	45.80	46.97	1606.17	42.76
1	70	121	0.29	-1.38	-1.29	0.20	0.38	664.49	268.99	663.74	269.75	17.27
1	70	122	3.99	1.03	1.21	3.81	-0.70	1578.02	127.39	132.54	1572.87	-86.24
1	70	123	3.05	0.94	1.33	2.66	-0.82	1521.45	289.34	297.84	1512.96	-101.93
1	70	124	1.82	1.41	1.64	1.59	-0.21	1480.36	407.00	408.71	1478.66	-42.80
1	70	125	2.34	0.95	1.60	1.68	0.69	1485.63	416.70	418.28	1484.05	41.07

1	70	126	3.80	0.37	1.11	3.07	1.41	1533.79	325.32	332.57	1526.55	93.27
1	70	127	4.80	-2.06e-02	9.92e-02	4.68	0.75	1582.57	213.04	216.96	1578.64	73.19
1	70	128	4.82	0.53	0.55	4.81	-0.25	1601.27	179.49	179.52	1601.24	6.58
1	70	129	4.40	-0.40	-7.23e-02	4.08	-1.21	1596.14	166.13	166.49	1595.78	-22.78
1	70	130	3.02	0.48	0.98	2.52	-1.01	1563.06	229.55	236.56	1556.05	-96.44
1	70	131	1.75	0.87	1.14	1.48	-0.40	1500.86	358.38	365.44	1493.80	-89.52
1	70	132	1.41	1.12	1.28	1.25	0.14	1465.51	426.15	426.30	1465.36	-12.44
1	70	133	2.43	0.63	1.41	1.64	0.90	1484.75	369.11	373.84	1480.02	72.48
1	70	134	4.16	0.17	1.05	3.28	1.65	1540.34	222.84	231.32	1531.86	105.34
1	70	135	5.49	-0.31	-0.12	5.30	1.04	1586.99	86.91	88.48	1585.43	48.40
1	70	136	5.56	0.69	0.69	5.56	9.88e-03	1600.87	63.03	63.88	1600.02	-36.16
1	70	137	5.19	-0.58	-0.27	4.88	-1.31	1595.47	44.48	49.36	1590.59	-86.86
1	70	138	3.50	0.35	0.93	2.91	-1.23	1554.14	134.88	159.42	1529.60	-184.99
1	70	139	1.84	0.72	1.09	1.47	-0.52	1474.74	312.11	342.68	1444.17	-186.04
1	70	140	1.12	0.97	1.07	1.01	6.79e-02	1401.57	454.15	464.71	1391.02	-99.44
1	70	141	1.76	0.38	1.01	1.13	0.69	1376.33	473.95	474.42	1375.86	20.75
1	70	142	2.64	2.01e-03	0.69	1.95	1.16	1411.29	357.73	374.81	1394.22	133.05
1	70	143	3.25	-0.12	0.24	2.89	1.05	1469.51	176.81	211.79	1434.54	209.74
1	70	144	3.22	-7.43e-03	4.89e-02	3.16	0.42	1509.07	58.91	104.30	1463.68	252.52
1	70	145	2.20	-5.99e-04	7.23e-02	2.13	-0.39	1774.48	85.69	105.85	1754.32	-183.42
1	70	146	2.37	9.90e-02	0.39	2.08	-0.76	1718.29	249.57	260.27	1707.59	-124.88
1	70	147	2.16	0.37	0.80	1.73	-0.77	1683.05	372.62	375.26	1680.41	-58.78
1	70	148	1.80	0.85	1.10	1.55	-0.42	1680.12	426.31	426.58	1679.85	18.31
1	70	149	1.85	1.16	1.17	1.85	5.73e-02	1715.14	399.82	405.29	1709.67	84.70
1	70	150	2.71	0.93	1.00	2.64	0.34	1771.95	320.90	329.98	1762.87	114.43
1	70	151	3.44	0.80	0.82	3.42	0.20	1823.76	243.26	248.54	1818.48	91.25
1	70	152	3.71	0.83	0.84	3.70	-0.15	1847.33	213.93	214.64	1846.62	33.91
1	70	153	0.18	-1.50	-1.39	6.95e-02	-0.41	613.60	178.61	545.73	246.48	-157.86
1	70	154	3.48	0.89	1.00	3.37	-0.51	1838.11	253.79	254.47	1837.43	-32.90
1	70	155	2.84	1.10	1.27	2.67	-0.51	1808.20	334.92	336.58	1806.53	-49.51
1	70	156	2.14	1.46	1.48	2.12	-0.11	1785.11	399.12	399.51	1784.72	-23.25
1	70	157	2.40	1.19	1.39	2.20	0.45	1787.61	410.82	411.09	1787.35	19.09
1	70	158	3.13	0.73	0.97	2.90	0.71	1813.63	372.28	373.68	1812.23	44.90
1	70	159	3.59	0.49	0.52	3.56	0.32	1842.21	322.69	323.43	1841.47	33.58
1	70	160	3.47	0.61	0.61	3.46	-8.57e-02	1851.61	308.85	308.85	1851.61	2.55
1	70	161	3.43	0.44	0.52	3.35	-0.49	1850.94	304.72	304.77	1850.89	-8.65
1	70	162	2.71	0.77	0.96	2.51	-0.59	1831.56	328.65	329.96	1830.25	-44.37
1	70	163	1.94	1.12	1.24	1.83	-0.29	1797.43	382.32	383.66	1796.08	-43.55
1	70	164	1.77	1.23	1.32	1.68	0.21	1776.57	408.45	408.49	1776.54	-6.67
1	70	165	2.51	0.79	1.18	2.11	0.72	1785.53	375.62	376.50	1784.65	35.23
1	70	166	3.45	0.39	0.72	3.11	0.95	1814.91	299.98	301.46	1813.42	47.39
1	70	167	4.09	0.15	0.21	4.03	0.49	1839.26	233.17	233.27	1839.16	12.76
1	70	168	3.96	0.28	0.28	3.96	-1.73e-05	1840.68	220.77	221.38	1840.08	-31.26
1	70	169	3.93	0.13	0.19	3.87	-0.47	1836.81	216.80	218.58	1835.02	-53.70
1	70	170	3.07	0.44	0.66	2.85	-0.72	1800.53	260.14	267.55	1793.12	-106.59
1	70	171	2.05	0.79	0.97	1.86	-0.44	1741.95	347.73	356.56	1733.12	-110.62
1	70	172	1.41	1.02	1.02	1.41	3.25e-02	1689.35	415.23	418.32	1686.27	-62.59
1	70	173	1.72	0.60	0.88	1.45	0.48	1669.00	412.71	412.84	1668.88	12.73
1	70	174	2.19	0.23	0.55	1.87	0.72	1687.82	328.45	334.14	1682.13	87.75
1	70	175	2.46	4.39e-02	0.19	2.31	0.58	1732.18	190.66	204.40	1718.44	144.87
1	70	176	2.46	-2.15e-03	5.27e-02	2.41	0.36	1769.76	87.72	107.88	1749.60	183.03
1	70	177	1.70	4.15e-02	7.52e-02	1.67	-0.23	1942.42	95.33	102.21	1935.54	-112.51
1	70	178	1.91	0.21	0.31	1.80	-0.42	1895.50	239.18	242.53	1892.15	-74.43
1	70	179	1.89	0.49	0.63	1.75	-0.42	1870.52	342.32	343.09	1869.75	-34.27
1	70	180	1.83	0.82	0.88	1.77	-0.24	1870.84	394.47	394.54	1870.77	9.80
1	70	181	2.05	0.95	0.95	2.05	4.06e-03	1897.03	394.11	395.53	1895.61	46.11
1	70	182	2.58	0.84	0.86	2.57	0.15	1938.75	359.00	361.39	1936.36	61.49
1	70	183	3.07	0.73	0.73	3.07	8.43e-02	1978.75	320.94	322.44	1977.26	49.72
1	70	184	3.28	0.72	0.72	3.27	-8.50e-02	2000.54	305.43	305.72	2000.25	22.25
1	70	185	-1.98	-3.15	-1.98	-3.15	3.03e-02	339.81	-143.30	81.39	115.13	-240.97
1	70	186	3.13	0.85	0.88	3.10	-0.27	2002.91	325.49	325.56	2002.85	-10.69
1	70	187	2.74	1.07	1.11	2.70	-0.26	1990.12	368.72	369.00	1989.84	-21.36
1	70	188	2.40	1.26	1.26	2.40	-4.46e-02	1978.85	405.39	405.47	1978.77	-11.18
1	70	189	2.46	1.16	1.20	2.42	0.22	1980.31	416.75	416.79	1980.27	7.85
1	70	190	2.78	0.89	0.95	2.72	0.32	1994.18	402.47	402.71	1993.94	19.62
1	70	191	2.98	0.73	0.74	2.97	0.14	2009.77	381.67	381.80	2009.64	14.52
1	70	192	2.89	0.75	0.75	2.89	-5.24e-02	2015.01	376.78	376.78	2015.01	0.83
1	70	193	2.86	0.74	0.76	2.84	-0.19	2014.67	374.73	374.73	2014.66	-3.49
1	70	194	2.47	0.91	0.96	2.42	-0.28	2004.01	382.16	382.39	2003.79	-19.17
1	70	195	2.05	1.14	1.16	2.03	-0.13	1985.82	403.19	403.42	1985.59	-19.11
1	70	196	2.00	1.15	1.18	1.97	0.15	1974.10	410.19	410.19	1974.10	-3.04
1	70	197	2.42	0.87	0.99	2.30	0.42	1977.32	389.02	389.17	1977.17	15.13
1	70	198	2.98	0.54	0.64	2.88	0.49	1990.56	347.73	347.94	1990.35	18.75
1	70	199	3.34	0.32	0.34	3.32	0.24	1999.34	313.43	313.43	1999.34	0.39
1	70	200	3.28	0.31	0.31	3.28	-1.23e-02	1995.18	308.08	308.35	1994.91	-21.22
1	70	201	3.24	0.31	0.32	3.23	-0.17	1990.20	306.38	306.96	1989.61	-31.38

1	70	202	2.75	0.48	0.54	2.69	-0.36	1959.45	326.89	328.88	1957.46	-56.99
1	70	203	2.10	0.73	0.78	2.05	-0.26	1915.94	368.93	371.18	1913.68	-59.01
1	70	204	1.67	0.85	0.85	1.67	2.56e-03	1877.65	395.43	396.21	1876.87	-34.02
1	70	205	1.69	0.66	0.73	1.62	0.26	1860.86	377.56	377.60	1860.82	7.54
1	70	206	1.90	0.36	0.47	1.79	0.39	1871.44	305.01	306.70	1869.76	51.36
1	70	207	2.03	0.15	0.20	1.97	0.32	1905.25	187.99	192.45	1900.79	87.38
1	70	208	2.03	4.97e-02	7.78e-02	2.00	0.23	1937.07	96.67	103.57	1930.18	112.46
1	70	209	1.45	7.05e-02	7.71e-02	1.45	-9.50e-02	2030.07	97.57	98.62	2029.03	-44.89
1	70	210	1.68	0.27	0.28	1.67	-0.15	1988.87	231.46	231.95	1988.38	-29.29
1	70	211	1.77	0.53	0.55	1.75	-0.15	1968.87	326.74	326.84	1968.76	-13.23
1	70	212	1.87	0.75	0.76	1.86	-9.10e-02	1970.37	379.62	379.63	1970.36	3.93
1	70	213	2.12	0.84	0.84	2.12	-1.26e-02	1991.99	392.08	392.28	1991.79	17.82
1	70	214	2.53	0.79	0.79	2.53	3.09e-02	2025.83	377.41	377.75	2025.49	23.61
1	70	215	2.90	0.71	0.71	2.90	1.36e-02	2059.46	357.35	357.57	2059.24	19.33
1	70	216	3.07	0.71	0.71	3.07	-3.09e-02	2080.06	348.43	348.48	2080.01	9.38
1	70	217	7.71	-1.52	7.70	-1.50	0.38	-255.58	-581.11	-551.20	-285.49	-94.03
1	70	218	2.98	0.84	0.84	2.98	-7.90e-02	2087.95	360.57	360.58	2087.94	-2.78
1	70	219	2.71	1.03	1.03	2.71	-6.49e-02	2083.56	387.78	387.81	2083.53	-7.24
1	70	220	2.50	1.14	1.14	2.50	3.33e-03	2078.24	412.28	412.29	2078.23	-4.21
1	70	221	2.49	1.10	1.11	2.48	8.25e-02	2079.53	422.87	422.87	2079.53	2.22
1	70	222	2.62	0.95	0.95	2.62	0.11	2087.88	418.37	418.39	2087.85	6.31
1	70	223	2.72	0.83	0.83	2.72	4.73e-02	2097.29	409.24	409.25	2097.28	4.67
1	70	224	2.64	0.83	0.83	2.64	-1.60e-02	2100.62	407.96	407.96	2100.62	0.15
1	70	225	2.61	0.84	0.84	2.61	-4.75e-02	2100.34	406.35	406.35	2100.34	-1.17
1	70	226	2.36	0.96	0.97	2.35	-8.29e-02	2093.72	407.43	407.46	2093.70	-6.31
1	70	227	2.12	1.09	1.09	2.11	-3.75e-02	2082.72	415.62	415.64	2082.70	-6.24
1	70	228	2.10	1.07	1.08	2.10	6.07e-02	2075.18	415.17	415.17	2075.18	-0.92
1	70	229	2.37	0.88	0.90	2.35	0.15	2075.74	399.09	399.10	2075.73	4.97
1	70	230	2.75	0.61	0.62	2.74	0.16	2081.19	372.41	372.43	2081.17	5.68
1	70	231	3.00	0.40	0.40	3.00	7.68e-02	2082.22	351.66	351.66	2082.22	-1.23
1	70	232	2.98	0.36	0.36	2.98	-8.70e-03	2075.35	349.24	349.28	2075.30	-8.99
1	70	233	2.93	0.37	0.37	2.93	-4.95e-02	2069.93	347.70	347.79	2069.84	-12.51
1	70	234	2.58	0.49	0.50	2.58	-0.12	2042.31	357.91	358.19	2042.04	-21.54
1	70	235	2.12	0.67	0.67	2.12	-9.97e-02	2006.59	379.47	379.77	2006.29	-22.11
1	70	236	1.79	0.73	0.73	1.79	-1.04e-02	1975.66	386.97	387.07	1975.55	-12.77
1	70	237	1.70	0.63	0.64	1.69	8.50e-02	1961.09	360.80	360.81	1961.08	3.07
1	70	238	1.77	0.41	0.43	1.75	0.14	1968.19	291.84	292.09	1967.94	20.25
1	70	239	1.83	0.19	0.20	1.82	0.12	1996.45	183.71	184.38	1995.78	34.89
1	70	240	1.81	7.77e-02	8.27e-02	1.80	9.29e-02	2024.56	98.60	99.66	2023.50	45.22
1	70	241	1.42	7.34e-02	7.43e-02	1.41	3.47e-02	2044.16	97.89	98.11	2043.94	20.92
1	70	242	1.66	0.27	0.28	1.66	7.92e-02	2003.87	230.27	230.37	2003.77	13.65
1	70	243	1.76	0.53	0.54	1.75	9.38e-02	1984.75	324.23	324.26	1984.73	6.46
1	70	244	1.86	0.76	0.76	1.86	5.78e-02	1986.57	377.11	377.11	1986.57	-0.73
1	70	245	2.11	0.85	0.85	2.11	-7.94e-03	2007.56	391.60	391.62	2007.53	-6.20
1	70	246	2.51	0.81	0.81	2.51	-5.54e-02	2040.11	380.42	380.46	2040.07	-8.41
1	70	247	2.90	0.73	0.73	2.89	-4.15e-02	2072.60	363.59	363.62	2072.57	-7.05
1	70	248	3.07	0.73	0.73	3.07	1.83e-02	2092.93	355.94	355.95	2092.92	-3.87
1	70	249	9.82	-6.15	2.43	1.23	-7.96	-733.25	-1412.80	-1375.73	-770.32	154.33
1	70	250	2.98	0.86	0.86	2.98	9.36e-02	2101.75	366.71	366.71	2101.75	8.88e-03
1	70	251	2.71	1.04	1.04	2.71	0.10	2098.82	391.02	391.02	2098.81	1.51
1	70	252	2.49	1.15	1.15	2.49	4.49e-02	2094.49	413.30	413.30	2094.49	0.64
1	70	253	2.47	1.11	1.11	2.47	-2.57e-02	2095.69	423.68	423.69	2095.69	-1.36
1	70	254	2.60	0.96	0.96	2.60	-5.44e-02	2103.03	420.81	420.82	2103.03	-2.62
1	70	255	2.69	0.84	0.84	2.69	-2.02e-02	2111.37	413.59	413.59	2111.37	-1.94
1	70	256	2.61	0.84	0.84	2.61	2.00e-02	2114.37	412.86	412.86	2114.37	-0.26
1	70	257	2.59	0.85	0.85	2.58	4.15e-02	2114.10	411.27	411.27	2114.10	0.25
1	70	258	2.34	0.96	0.97	2.34	5.98e-02	2108.14	411.30	411.31	2108.14	2.31
1	70	259	2.12	1.08	1.08	2.12	2.64e-02	2098.28	417.51	417.51	2098.28	2.50
1	70	260	2.11	1.06	1.06	2.11	-3.78e-02	2091.40	415.98	415.98	2091.40	0.66
1	70	261	2.36	0.88	0.89	2.35	-9.50e-02	2091.56	400.78	400.78	2091.56	-1.46
1	70	262	2.73	0.61	0.62	2.72	-0.11	2095.76	376.49	376.49	2095.76	-1.66
1	70	263	2.97	0.41	0.41	2.97	-5.55e-02	2095.54	357.92	357.92	2095.54	0.96
1	70	264	2.94	0.37	0.37	2.94	-5.01e-03	2088.24	355.91	355.92	2088.24	3.88
1	70	265	2.90	0.38	0.38	2.90	2.09e-02	2082.79	354.33	354.35	2082.77	5.23
1	70	266	2.56	0.50	0.50	2.56	5.73e-02	2055.75	362.78	362.83	2055.70	8.76
1	70	267	2.12	0.66	0.66	2.11	3.41e-02	2021.31	381.05	381.10	2021.26	9.05
1	70	268	1.80	0.72	0.72	1.80	-2.04e-02	1991.52	385.60	385.62	1991.50	5.27
1	70	269	1.71	0.62	0.62	1.70	-6.91e-02	1977.29	358.18	358.18	1977.29	-1.39
1	70	270	1.76	0.41	0.42	1.75	-8.68e-02	1983.85	289.78	289.82	1983.80	-8.87
1	70	271	1.80	0.19	0.20	1.80	-6.52e-02	2011.23	183.00	183.13	2011.10	-15.47
1	70	272	1.78	8.00e-02	8.12e-02	1.77	-4.50e-02	2038.75	98.84	99.05	2038.54	-20.15
1	70	273	1.59	4.86e-02	6.58e-02	1.58	0.16	1985.78	97.17	101.26	1981.70	87.76
1	70	274	1.85	0.22	0.29	1.78	0.34	1941.44	236.30	238.23	1939.51	57.41
1	70	275	1.87	0.51	0.62	1.76	0.37	1919.32	334.59	335.03	1918.88	26.38
1	70	276	1.83	0.83	0.89	1.77	0.23	1920.82	386.10	386.13	1920.79	-6.25
1	70	277	2.02	1.00	1.00	2.02	1.86e-03	1945.12	392.11	392.77	1944.46	-32.16

1	70	278	2.53	0.92	0.94	2.51	-0.16	1982.91	368.55	369.68	1981.78	-42.66
1	70	279	3.04	0.81	0.81	3.04	-0.12	2019.39	341.51	342.23	2018.67	-34.76
1	70	280	3.28	0.78	0.78	3.28	6.37e-02	2040.39	330.27	330.44	2040.22	-16.92
1	70	281	0.98	-2.68	-0.86	-0.84	1.83	319.56	-416.54	-134.96	37.99	357.75
1	70	282	3.14	0.90	0.94	3.10	0.29	2045.85	345.23	345.24	2045.83	4.58
1	70	283	2.74	1.12	1.17	2.69	0.28	2037.74	378.18	378.27	2037.65	12.21
1	70	284	2.38	1.29	1.29	2.38	7.79e-02	2029.53	407.25	407.27	2029.51	6.41
1	70	285	2.42	1.19	1.21	2.39	-0.17	2030.55	418.22	418.23	2030.54	-5.53
1	70	286	2.70	0.93	0.97	2.66	-0.26	2041.06	409.95	410.05	2040.95	-13.04
1	70	287	2.88	0.76	0.77	2.88	-0.11	2053.05	396.11	396.17	2053.00	-9.73
1	70	288	2.80	0.78	0.78	2.80	5.64e-02	2057.25	393.24	393.24	2057.25	-0.83
1	70	289	2.77	0.77	0.78	2.75	0.16	2056.96	391.25	391.25	2056.96	1.97
1	70	290	2.41	0.93	0.97	2.37	0.23	2048.54	394.75	394.85	2048.45	12.55
1	70	291	2.05	1.11	1.13	2.04	0.10	2034.17	408.51	408.61	2034.06	12.90
1	70	292	2.02	1.11	1.13	2.00	-0.13	2024.68	411.48	411.48	2024.67	2.42
1	70	293	2.39	0.87	0.95	2.30	-0.35	2026.64	393.26	393.32	2026.59	-9.43
1	70	294	2.89	0.56	0.63	2.82	-0.41	2035.88	360.34	360.42	2035.81	-11.26
1	70	295	3.21	0.35	0.37	3.20	-0.20	2040.60	333.85	333.85	2040.60	1.62
1	70	296	3.16	0.33	0.33	3.16	3.47e-03	2035.06	330.14	330.29	2034.90	16.38
1	70	297	3.11	0.34	0.35	3.11	0.13	2029.91	328.33	328.65	2029.59	23.31
1	70	298	2.66	0.51	0.55	2.62	0.27	2000.93	342.89	343.90	1999.91	41.06
1	70	299	2.08	0.73	0.75	2.05	0.18	1961.39	373.86	375.00	1960.24	42.66
1	70	300	1.71	0.81	0.81	1.71	-3.75e-02	1926.69	390.64	391.05	1926.29	24.79
1	70	301	1.71	0.64	0.69	1.65	-0.24	1910.86	369.00	369.02	1910.84	-5.73
1	70	302	1.87	0.38	0.45	1.79	-0.33	1919.52	298.93	299.85	1918.59	-38.74
1	70	303	1.96	0.16	0.20	1.92	-0.26	1950.57	186.69	189.23	1948.04	-66.80
1	70	304	1.94	5.77e-02	7.52e-02	1.92	-0.18	1980.75	98.25	102.23	1976.77	-86.52
1	70	305	2.03	9.06e-03	5.45e-02	1.98	0.30	1850.62	92.44	106.77	1836.29	158.08
1	70	306	2.31	0.12	0.36	2.07	0.68	1797.64	247.80	254.96	1790.49	105.05
1	70	307	2.16	0.39	0.78	1.77	0.73	1767.72	359.05	360.71	1766.06	48.34
1	70	308	1.84	0.83	1.10	1.58	0.45	1767.22	409.47	409.62	1767.07	-14.44
1	70	309	1.79	1.24	1.24	1.79	1.74e-02	1799.07	394.53	397.68	1795.92	-66.47
1	70	310	2.57	1.09	1.16	2.50	-0.32	1849.54	338.53	343.66	1844.41	-87.85
1	70	311	3.38	0.95	0.98	3.35	-0.27	1895.68	284.30	287.33	1892.65	-69.81
1	70	312	3.74	0.95	0.95	3.73	0.11	1918.13	264.17	264.68	1917.62	-29.01
1	70	313	1.15	-1.66	-0.88	0.37	1.25	703.54	-15.69	469.16	218.69	337.10
1	70	314	3.50	0.99	1.12	3.38	0.54	1914.92	291.59	291.80	1914.71	18.70
1	70	315	2.80	1.20	1.39	2.61	0.51	1893.45	349.41	350.12	1892.75	32.93
1	70	316	2.11	1.51	1.52	2.10	8.97e-02	1875.36	397.81	397.99	1875.18	16.34
1	70	317	2.36	1.21	1.38	2.20	-0.40	1876.60	409.73	409.85	1876.48	-13.41
1	70	318	3.01	0.79	0.98	2.82	-0.62	1896.20	385.24	385.90	1895.54	-31.58
1	70	319	3.41	0.56	0.59	3.38	-0.27	1917.95	352.08	352.44	1917.59	-23.78
1	70	320	3.28	0.67	0.67	3.28	9.99e-02	1925.42	343.02	343.03	1925.42	-2.23
1	70	321	3.24	0.53	0.59	3.17	0.41	1924.84	339.13	339.15	1924.82	5.42
1	70	322	2.59	0.82	0.98	2.43	0.50	1909.99	353.32	353.94	1909.36	31.26
1	70	323	1.92	1.13	1.20	1.86	0.22	1883.28	389.80	390.47	1882.61	31.67
1	70	324	1.82	1.17	1.24	1.76	-0.20	1866.74	406.38	406.40	1866.72	5.18
1	70	325	2.44	0.81	1.10	2.15	-0.62	1873.49	379.53	379.94	1873.07	-24.88
1	70	326	3.27	0.44	0.70	3.01	-0.82	1895.65	322.22	322.86	1895.01	-31.91
1	70	327	3.84	0.21	0.26	3.79	-0.43	1912.49	273.39	273.40	1912.48	-5.22
1	70	328	3.73	0.32	0.32	3.73	1.49e-02	1911.33	265.04	265.49	1910.88	27.20
1	70	329	3.68	0.20	0.25	3.64	0.38	1906.97	261.26	262.41	1905.82	43.49
1	70	330	2.89	0.51	0.67	2.73	0.59	1873.54	291.89	296.29	1869.13	83.33
1	70	331	1.99	0.82	0.92	1.88	0.33	1821.59	356.54	361.78	1816.35	87.46
1	70	332	1.51	0.95	0.96	1.50	-7.13e-02	1775.18	404.82	406.67	1773.33	50.29
1	70	333	1.73	0.62	0.83	1.52	-0.43	1756.30	396.03	396.11	1756.22	-10.28
1	70	334	2.12	0.28	0.54	1.87	-0.63	1771.07	318.99	322.60	1767.45	-72.36
1	70	335	2.34	8.13e-02	0.20	2.22	-0.51	1810.75	191.97	201.24	1801.48	-122.17
1	70	336	2.31	1.64e-02	5.86e-02	2.27	-0.31	1846.37	93.78	107.82	1832.33	-156.28
1	70	337	2.91	0.12	0.23	2.80	0.54	1628.51	75.61	110.75	1593.37	230.93
1	70	338	3.06	0.11	0.69	2.47	1.18	1566.11	258.23	278.09	1546.25	159.93
1	70	339	2.54	0.22	1.03	1.73	1.11	1521.96	399.30	404.36	1516.91	75.18
1	70	340	1.89	0.61	1.25	1.26	0.64	1514.81	454.55	455.16	1514.20	-25.28
1	70	341	1.49	1.30	1.39	1.41	9.40e-02	1558.76	401.49	413.08	1547.18	-115.20
1	70	342	2.62	1.20	1.37	2.45	-0.46	1630.52	281.50	299.53	1612.49	-154.92
1	70	343	3.95	1.20	1.30	3.84	-0.52	1692.52	172.52	182.62	1682.43	-123.45
1	70	344	4.47	1.74	1.75	4.46	0.22	1717.25	139.88	140.83	1716.30	-38.71
1	70	345	0.20	-1.29	-1.16	7.39e-02	0.42	808.28	215.02	754.21	269.09	170.74
1	70	346	4.08	1.20	1.47	3.81	0.84	1697.50	192.56	194.64	1695.42	55.87
1	70	347	2.85	1.18	1.56	2.46	0.71	1651.32	305.16	309.28	1647.20	74.31
1	70	348	1.67	1.59	1.65	1.61	3.58e-02	1614.92	395.55	396.50	1613.97	34.14
1	70	349	2.33	0.97	1.50	1.80	-0.66	1618.06	407.41	408.17	1617.30	-30.35
1	70	350	3.58	0.47	1.06	2.99	-1.22	1657.45	344.21	347.76	1653.90	-68.15
1	70	351	4.49	0.13	0.24	4.39	-0.67	1696.56	268.38	270.36	1694.58	-53.12
1	70	352	4.46	0.68	0.70	4.44	0.29	1712.35	245.53	245.54	1712.33	-5.03
1	70	353	4.06	-0.14	0.13	3.79	1.03	1707.57	233.83	233.97	1707.42	14.85

1	70	354	2.79	0.63	1.03	2.39	0.84	1681.79	273.45	276.95	1678.29	70.15
1	70	355	1.70	0.97	1.10	1.56	0.28	1630.27	365.33	369.06	1626.54	68.57
1	70	356	1.51	1.09	1.18	1.42	-0.17	1600.88	413.71	413.79	1600.80	9.77
1	70	357	2.32	0.72	1.28	1.77	-0.76	1616.86	367.47	369.96	1614.36	-55.77
1	70	358	3.84	0.28	0.96	3.15	-1.40	1663.30	256.26	260.35	1659.21	-75.77
1	70	359	5.09	-0.16	9.71e-03	4.92	-0.93	1699.76	159.74	160.31	1699.19	-29.56
1	70	360	5.07	0.69	0.69	5.07	8.33e-02	1709.25	143.95	144.70	1708.50	34.31
1	70	361	4.75	-0.35	-0.11	4.51	1.08	1702.89	128.39	131.59	1699.69	70.90
1	70	362	3.18	0.49	0.94	2.73	1.01	1664.29	191.75	206.71	1649.33	147.68
1	70	363	1.75	0.84	1.04	1.55	0.38	1591.44	326.19	345.10	1572.53	153.52
1	70	364	1.24	0.96	1.01	1.19	-0.10	1526.39	435.07	441.63	1519.83	84.34
1	70	365	1.74	0.50	0.96	1.27	-0.60	1503.94	445.62	445.89	1503.66	-17.07
1	70	366	2.48	0.16	0.72	1.92	-1.00	1531.88	347.19	358.12	1520.95	-113.28
1	70	367	3.09	-4.16e-02	0.30	2.74	-0.98	1584.98	189.21	214.02	1560.16	-184.44
1	70	368	3.02	5.55e-02	0.11	2.96	-0.41	1625.58	77.40	111.77	1591.21	-228.10
1	70	369	4.54	2.38	3.19	3.72	1.05	1309.32	39.74	107.91	1241.15	286.18
1	70	370	4.21	0.29	1.58	2.92	1.84	1250.78	244.14	300.78	1194.14	231.97
1	70	371	2.37	0.27	1.16	1.49	1.04	1179.95	451.22	468.62	1162.55	111.26
1	70	372	1.54	0.33	0.87	1.00	0.60	1157.18	532.36	534.34	1155.20	-35.08
1	70	373	1.30	0.64	0.69	1.24	0.19	1220.54	414.69	455.69	1179.54	-177.08
1	70	374	2.26	0.79	0.79	2.26	-3.05e-02	1316.16	172.95	236.10	1253.01	-261.16
1	70	375	4.62	0.61	0.89	4.34	-1.02	1388.19	-47.09	-4.41	1345.52	-243.78
1	70	376	7.99	4.81	7.59	5.21	1.05	1463.15	-72.18	-71.06	1462.03	-41.47
1	70	377	9.99e-02	-1.10	-1.07	7.48e-02	-0.17	788.36	263.77	787.31	264.83	-23.50
1	70	378	4.45	0.95	1.09	4.31	0.69	1365.57	12.54	31.73	1346.38	160.01
1	70	379	2.30	0.89	1.08	2.10	0.48	1294.16	240.67	263.43	1271.41	153.14
1	70	380	1.31	0.83	0.85	1.29	-9.07e-02	1230.56	420.36	424.92	1226.00	60.62
1	70	381	1.89	0.51	1.00	1.41	-0.66	1238.56	428.80	433.56	1233.80	-61.92
1	70	382	3.39	0.39	1.21	2.56	-1.34	1312.10	273.58	293.50	1292.18	-142.44
1	70	383	7.16	-1.04	0.41	5.71	-3.12	1379.08	114.60	129.78	1363.89	-137.73
1	70	384	9.72	-1.09	-0.14	8.76	3.07	1439.40	37.63	37.88	1439.15	18.53
1	70	385	5.58	-1.81	0.99	2.78	3.58	1383.87	31.72	35.23	1380.35	68.84
1	70	386	1.84	0.20	0.21	1.84	-8.73e-02	1335.62	119.40	138.43	1316.60	150.91
1	70	387	1.68	0.19	0.32	1.56	0.41	1258.28	345.75	364.75	1239.28	130.29
1	70	388	1.15	0.64	0.65	1.14	4.79e-02	1215.16	454.71	455.04	1214.84	15.74
1	70	389	1.76	0.54	0.93	1.36	-0.57	1242.37	371.51	384.67	1229.21	-106.27
1	70	390	3.24	0.51	1.26	2.50	-1.22	1320.89	142.22	165.96	1297.16	-165.57
1	70	391	7.87	-1.57	0.51	5.80	-3.91	1382.46	-45.39	-35.22	1372.29	-120.05
1	70	392	11.73	-0.27	0.17	11.29	2.25	1467.86	-99.12	-96.93	1465.66	58.58
1	70	393	6.55	-2.25	0.64	3.67	4.13	1393.70	-129.07	-113.65	1378.28	152.44
1	70	394	2.03	0.51	0.52	2.03	6.84e-02	1347.99	-1.84	49.09	1297.06	257.18
1	70	395	1.61	0.33	0.49	1.45	0.42	1264.58	279.25	343.85	1199.97	243.90
1	70	396	0.90	0.69	0.70	0.89	-2.09e-02	1180.46	487.94	510.31	1158.09	122.46
1	70	397	1.52	0.31	0.86	0.97	-0.60	1148.67	526.78	528.06	1147.38	-28.21
1	70	398	2.45	0.26	1.01	1.69	-1.04	1201.24	370.29	404.78	1166.75	-165.73
1	70	399	4.32	-0.50	0.51	3.32	-1.96	1269.69	144.64	208.82	1205.52	-260.93
1	70	400	4.44	1.79	1.87	4.35	-0.47	1310.18	38.90	106.18	1242.90	-284.62
1	70	401	5.95	-2.11	5.28	-1.44	-2.23	800.69	-123.34	-33.88	711.22	273.25
1	70	402	2.36	-0.72	1.04	0.60	-1.52	822.92	102.78	276.90	648.80	308.34
1	70	403	2.20	-2.39e-02	0.31	1.87	0.80	789.57	489.59	574.89	704.26	135.32
1	70	404	0.89	-0.25	-0.20	0.85	0.21	738.12	629.71	650.48	717.35	-42.66
1	70	405	1.28	-0.82	-0.81	1.26	-0.17	862.07	392.41	541.34	713.14	-218.55
1	70	406	4.04	-1.54	-1.44	3.94	-0.75	886.66	57.49	243.46	700.70	-345.85
1	70	407	3.97	-3.20	0.89	-0.12	3.55	860.56	-464.49	-298.68	694.75	-438.42
1	70	408	14.85	-7.05	14.78	-6.98	1.20	978.22	-653.78	-652.97	977.41	-36.35
1	70	409	0.87	-1.27	-1.17	0.78	-0.43	645.76	129.35	578.05	197.06	-174.31
1	70	410	2.69	-2.39	0.44	-0.14	-2.53	800.07	-314.87	-193.64	678.84	347.08
1	70	411	3.00	-1.47	-1.44	2.97	0.38	796.70	202.93	283.91	715.71	203.78
1	70	412	1.23	-0.91	-0.90	1.21	0.16	757.57	480.76	502.15	736.18	73.90
1	70	413	1.11	-0.40	-0.36	1.08	-0.24	776.35	475.13	505.35	746.12	-90.51
1	70	414	3.76	-0.36	0.28	3.12	-1.50	843.11	204.54	296.82	750.83	-224.53
1	70	415	3.92	0.50	3.77	0.64	0.68	892.76	-231.97	-140.38	801.17	-307.60
1	70	416	19.67	5.53	19.32	5.88	2.20	1008.76	-104.01	-101.61	1006.36	-51.58
1	70	417	3.45	-2.28	2.57	-1.41	2.06	958.38	-431.52	-416.22	943.07	145.03
1	70	418	5.48	-2.42	-1.96	5.02	1.85	843.76	-85.05	40.10	718.62	317.13
1	70	419	2.07	-1.13	-0.74	1.68	1.06	810.19	327.39	409.12	728.46	181.05
1	70	420	0.93	-0.37	-0.25	0.82	0.37	743.20	540.25	542.04	741.42	18.94
1	70	421	1.04	-0.21	-0.14	0.98	-0.28	796.61	386.25	446.87	736.00	-145.60
1	70	422	4.15	-0.48	0.14	3.53	-1.58	827.99	34.59	137.98	724.59	-267.10
1	70	423	5.55	-0.48	5.35	-0.27	1.08	879.03	-466.54	-392.36	804.85	-307.10
1	70	424	23.93	4.97	23.91	4.98	0.57	1022.98	-298.54	-298.52	1022.96	5.22
1	70	425	5.11	-1.98	5.10	-1.97	0.23	960.22	-649.72	-598.55	909.06	282.41
1	70	426	6.01	-2.03	-1.44	5.42	2.09	892.02	-256.24	-56.11	691.90	435.60
1	70	427	1.82	-0.83	-0.47	1.47	0.90	897.88	194.79	388.69	703.97	314.22
1	70	428	0.65	-0.13	-2.93e-02	0.56	0.26	825.71	509.74	618.15	717.29	150.01
1	70	429	0.89	-2.73e-02	0.19	0.68	-0.39	725.53	631.89	645.84	711.58	-33.33

1	70	430	3.09	-0.14	0.50	2.45	-1.29	826.84	354.48	491.98	689.34	-214.58
1	70	431	3.18	0.30	2.73	0.74	1.04	834.07	-20.85	153.09	660.13	-344.16
1	70	432	6.59	-0.27	4.89	1.44	2.96	824.27	-68.99	18.30	736.98	-265.24
1	70	433	3.32	-3.20	-0.94	1.06	-3.11	488.04	-9.43	392.63	85.98	195.86
1	70	434	0.69	-1.80	-1.70	0.59	0.48	708.36	203.73	679.69	232.40	116.81
1	70	435	0.23	-1.49	-1.48	0.22	-0.12	796.83	263.43	791.31	268.95	-53.98
1	70	436	0.77	-2.11	-1.66	0.32	-1.05	764.49	137.50	655.83	246.16	-237.32
1	70	437	-1.64	-3.99	-3.13	-2.50	-1.14	505.67	-171.91	209.60	124.17	-336.09
1	70	438	6.96	-4.43	6.87	-4.34	0.97	26.51	-514.07	-337.86	-149.70	-253.39
1	70	439	3.92	-3.08	-1.55	2.40	2.89	238.64	-206.67	129.17	-97.20	-191.74
1	70	440	6.58	-5.01	6.49	-4.92	0.97	98.44	-271.58	-140.36	-32.78	177.02
1	70	441	-1.46	-4.50	-3.41	-2.55	1.46	418.96	11.63	283.01	147.58	192.08
1	70	442	0.72	-2.37	-2.00	0.35	1.00	626.69	239.00	612.97	252.72	71.62
1	70	443	0.18	-1.82	-1.82	0.18	-3.71e-03	639.94	230.41	613.34	257.01	-100.92
1	70	444	-2.00	-2.62	-2.38	-2.24	0.30	440.48	5.16	282.38	163.26	-209.35
1	70	445	6.08	-1.80	5.85	-1.58	1.31	-39.82	-295.41	-210.95	-124.28	-120.22
1	70	447	2.49	-3.91	-1.68	0.27	-3.05	232.06	-161.30	211.82	-141.06	86.90
1	70	448	1.29	-7.09	-1.98	-3.82	4.09	178.83	-153.64	174.34	-149.15	-38.39
1	70	449	10.10	3.00	6.61	6.48	3.55	231.63	25.11	74.10	182.64	87.85
1	70	450	3.08	-1.66	-1.66	3.07	0.10	1031.49	-68.42	-54.38	1017.45	123.48
1	70	451	2.78	-0.37	-0.36	2.77	-0.21	1493.18	-31.03	-22.72	1484.87	112.25
1	70	452	2.29	-4.74e-02	-4.38e-02	2.29	-9.19e-02	1778.60	-20.59	-16.90	1774.90	81.49
1	70	453	1.85	-2.78e-03	-1.58e-03	1.85	-4.72e-02	1956.23	-15.82	-14.54	1954.95	50.21
1	70	454	1.60	3.83e-03	4.04e-03	1.60	-1.85e-02	2047.48	-13.55	-13.35	2047.28	20.21
1	70	455	1.56	4.52e-03	4.57e-03	1.56	8.78e-03	2062.20	-13.20	-13.16	2062.16	-9.01
1	70	456	1.72	-1.04e-03	-1.67e-04	1.72	3.87e-02	2002.00	-14.73	-13.99	2001.26	-38.67
1	70	457	2.07	-4.57e-02	-4.22e-02	2.07	8.59e-02	1860.66	-18.66	-16.06	1858.06	-69.81
1	70	458	2.49	-0.39	-0.37	2.47	0.22	1622.19	-28.48	-22.14	1615.85	-102.09
1	70	459	2.64	-2.28	-2.25	2.62	0.36	1227.97	-71.65	-60.85	1217.16	-118.02
1	70	460	12.12	3.73	9.44	6.41	-3.91	599.19	64.22	101.22	562.20	-135.73
1	70	461	2.84	-2.65	-1.89	2.08	1.89	228.22	-163.90	204.75	-140.43	-93.02
1	70	462	1.28	-5.37	-2.02	-2.07	-3.32	173.12	-155.09	168.79	-150.77	37.44
1	70	463	13.97	4.62	8.29	10.31	-4.56	248.53	34.27	105.50	177.30	-100.94
1	70	464	3.65	-2.10	-2.08	3.63	-0.31	1023.82	-72.56	-59.77	1011.03	-117.73
1	70	465	2.17	-0.40	-0.39	2.16	0.21	1495.80	-31.21	-23.04	1487.63	-111.41
1	70	466	1.65	-6.11e-02	-5.56e-02	1.64	9.76e-02	1783.73	-20.62	-16.96	1780.07	-81.20
1	70	467	1.23	-7.41e-03	-5.31e-03	1.23	5.10e-02	1962.22	-15.83	-14.57	1960.95	-49.98
1	70	468	0.99	3.01e-03	3.40e-03	0.99	1.96e-02	2053.70	-13.56	-13.37	2053.51	-19.98
1	70	469	0.94	3.96e-03	4.08e-03	0.94	-1.04e-02	2068.30	-13.23	-13.19	2068.26	9.28
1	70	470	1.08	-5.07e-03	-3.27e-03	1.08	-4.41e-02	2007.65	-14.78	-14.03	2006.90	39.00
1	70	471	1.35	-6.10e-02	-5.42e-02	1.35	-9.83e-02	1865.34	-18.80	-16.18	1862.71	70.23
1	70	472	1.67	-0.45	-0.42	1.64	-0.25	1624.57	-29.14	-22.77	1618.20	102.43
1	70	473	2.51	-2.72	-2.72	2.50	-0.20	1219.47	-78.23	-67.89	1209.13	115.38
1	70	474	15.19	5.49	11.12	9.57	4.79	585.13	90.84	135.09	540.88	141.12
1	70	475	3.75	-6.16	-0.54	-1.87	4.91	224.41	-231.47	-231.43	224.37	4.19
1	70	476	16.82	-11.18	16.40	-10.76	3.42	694.87	-1142.63	-1142.52	694.76	-14.47
1	70	477	10.83	-15.41	8.05	-12.63	8.08	610.45	-882.95	-882.25	609.75	32.28
1	70	478	1.88	-3.01	-2.82	1.69	0.95	572.72	-1468.78	-1468.78	572.71	2.22
1	70	479	3.12	-10.48	-6.14	-1.22	-6.34	201.52	-264.98	-260.67	197.22	-44.63
1	70	480	16.75	10.81	14.38	13.18	2.91	237.84	-1074.92	-1074.67	237.59	18.04
1	70	481	1.97	-3.40	1.36	-2.79	1.70	-48.33	-220.98	-158.36	-110.95	83.01
1	70	482	-1.02	-2.27	-2.24	-1.04	0.19	536.74	-66.85	526.69	-56.80	77.26
1	70	483	-0.43	-3.42	-3.42	-0.43	-7.28e-04	723.89	-49.57	723.84	-49.51	6.63
1	70	484	-0.37	-3.25	-3.22	-0.40	-0.29	600.01	-56.68	592.57	-49.24	-69.52
1	70	485	4.75	-2.45	-0.60	2.90	-3.14	213.84	-132.71	101.26	-20.13	-162.30
1	70	486	11.69	-16.37	4.91	-9.59	12.01	-312.16	-1164.15	-1129.85	-346.47	167.49
1	70	487	16.65	6.24	14.25	8.64	-4.38	65.98	-1484.08	-1482.57	64.47	-48.39
1	70	488	2.84	-3.16	1.33	-1.65	2.60	12.00	-364.92	-266.38	-86.54	165.62
1	70	489	-0.99	-2.25	-2.21	-1.03	0.23	534.50	-87.10	501.40	-54.00	139.57
1	70	490	-0.42	-3.38	-3.38	-0.42	2.61e-02	826.14	-52.81	820.62	-47.28	69.46
1	70	491	-0.59	-3.69	-3.69	-0.59	-1.47e-02	854.46	-48.81	854.33	-48.69	-10.64
1	70	492	-0.31	-3.24	-2.54	-1.01	-1.25	606.05	-74.51	596.22	-64.67	-81.22
1	70	493	2.40	0.83	0.86	2.37	-0.22	225.35	-56.93	216.35	-47.93	49.59
1	70	494	-0.39	-3.40	-3.11	-0.68	0.89	723.82	-64.35	719.48	-60.00	58.35
1	70	495	-0.55	-3.87	-3.87	-0.55	-1.35e-02	859.33	-49.09	858.86	-48.62	-20.58
1	70	496	-0.38	-2.76	-2.69	-0.46	-0.41	722.22	-60.57	709.25	-47.60	-99.93
1	70	497	6.09	-1.09	2.01	2.98	-3.56	348.97	-125.05	241.80	-17.89	-198.28
1	70	498	13.33	-15.88	7.93	-10.48	11.34	-336.66	-854.75	-839.48	-351.92	87.61
1	70	499	3.49	2.70	2.90	3.29	0.34	-8.97	-95.91	-86.55	-18.33	-26.94
1	70	500	9.62	-17.15	5.22	-12.76	-9.92	-345.74	-618.76	-577.27	-387.23	-98.01
1	70	501	5.54	-0.73	1.41	3.41	2.97	375.42	-56.58	329.64	-10.80	132.98
1	70	502	-0.23	-3.10	-3.04	-0.29	0.40	666.83	-49.55	665.30	-48.02	33.04
1	70	503	-0.43	-4.00	-3.99	-0.44	-0.17	668.03	-52.70	665.25	-49.91	-44.71
1	70	504	3.66	-3.41	-2.09	2.35	-2.75	364.47	-79.39	313.54	-28.45	-141.48
1	70	505	7.87	-13.26	2.10	-7.49	9.41	-283.65	-726.31	-703.94	-306.03	96.98
1	70	506	0.47	-3.99	-1.35	-2.17	-2.19	-113.47	-204.00	-139.08	-178.39	-40.77

1	70	507	1.07	-4.39	-2.90	-0.42	2.44	-107.61	-206.12	-166.32	-147.41	48.34
1	70	508	-0.39	-4.04	-4.04	-0.39	-1.27e-03	723.73	-49.63	723.68	-49.58	-6.35
1	70	509	-0.92	-2.77	-2.75	-0.95	-0.21	534.66	-66.45	524.88	-56.67	-76.03
1	70	510	-0.13	-3.97	-3.95	-0.15	0.28	598.03	-55.52	590.69	-48.19	68.86
1	70	511	5.18	-1.68	0.58	2.92	3.22	207.55	-126.36	97.62	-16.43	156.91
1	70	512	12.28	-17.46	4.36	-9.54	-13.14	-327.72	-1168.27	-1127.94	-368.05	-179.65
1	70	513	17.34	-13.03	16.63	-12.31	-4.60	714.48	-1132.84	-1132.74	714.38	13.79
1	70	514	17.25	6.35	13.33	10.27	5.23	54.45	-1487.20	-1485.72	52.96	47.80
1	70	515	4.03	-2.91	2.94	-1.82	-2.52	9.68	-359.97	-266.52	-83.77	-160.66
1	70	516	-0.79	-2.60	-2.56	-0.83	-0.26	531.10	-85.97	498.41	-53.27	-138.23
1	70	517	-0.37	-3.71	-3.71	-0.37	-2.66e-02	825.79	-52.79	820.28	-47.28	-69.35
1	70	518	-0.47	-3.99	-3.99	-0.47	3.85e-03	854.91	-48.28	854.78	-48.15	10.80
1	70	519	-0.27	-3.29	-2.77	-0.79	1.14	612.19	-70.43	601.90	-60.13	83.20
1	70	520	2.79	-1.03	-0.24	2.00	-1.55	-39.23	-90.16	-84.73	-44.66	15.72
1	70	521	1.54	-1.63	-1.26	1.17	1.02	233.36	-79.41	226.36	-72.41	-46.25
1	70	522	3.08	-11.66	-7.33	-1.25	6.71	203.79	-265.93	-262.29	200.16	41.15
1	70	523	-0.25	-3.62	-3.36	-0.52	-0.91	731.60	-60.79	727.23	-56.42	-58.66
1	70	524	-0.41	-4.56	-4.56	-0.41	1.45e-02	863.64	-48.65	863.13	-48.14	21.69
1	70	525	-0.17	-3.85	-3.82	-0.20	0.33	725.32	-59.98	712.11	-46.78	100.98
1	70	526	6.37	-1.12	2.47	2.77	3.74	345.28	-121.84	240.80	-17.36	194.65
1	70	527	13.64	-16.80	7.67	-10.82	-12.09	-347.05	-863.04	-845.65	-364.45	-93.13
1	70	528	1.57	-2.38	-2.26	1.45	-0.67	579.66	-1473.95	-1473.95	579.66	1.73
1	70	529	3.40	-7.21	-2.04	-1.77	-5.30	228.81	-230.59	-230.56	228.78	-3.74
1	70	530	10.22	-17.06	5.67	-12.52	10.17	-347.64	-629.51	-589.03	-388.13	98.85
1	70	531	5.54	-1.16	1.32	3.07	-3.23	372.34	-57.83	328.37	-13.86	-130.31
1	70	532	-6.72e-02	-4.50	-4.48	-8.76e-02	-0.30	670.66	-49.34	669.00	-47.68	-34.52
1	70	533	-0.19	-5.03	-5.03	-0.19	0.17	670.28	-51.60	667.73	-49.05	42.82
1	70	534	3.92	-2.96	-1.48	2.43	2.83	363.60	-73.13	315.13	-24.67	137.18
1	70	535	7.87	-14.88	0.96	-7.98	-10.46	-302.42	-730.61	-701.86	-331.17	-107.15
1	70	536	11.55	-17.39	8.17	-14.01	-9.29	630.13	-880.90	-880.27	629.50	-30.83
1	70	537	17.79	11.62	14.43	14.97	-3.07	235.35	-1079.18	-1078.37	234.55	-32.52
1	70	538	2.97	-3.62	2.48	-3.13	-1.72	-51.72	-217.15	-157.94	-110.93	-79.30
1	70	539	0.38	-3.75	-2.55	-0.82	1.87	-125.27	-191.72	-160.39	-156.59	33.17
1	70	540	1.61	-4.62	-3.92	0.91	-1.96	-106.18	-203.61	-185.02	-124.77	-38.28
1	72	1	0.64	-0.61	-0.41	0.44	-0.46	-425.47	-909.10	-720.73	-613.84	235.83
1	72	3	1.14	-1.16	-1.13	1.11	0.27	-397.16	-867.44	-698.60	-566.00	-225.60
1	72	6	2.07	-9.09	-2.27	-4.74	5.44	-1247.73	-2331.33	-2322.73	-1256.33	-96.14
1	72	9	5.53	-6.88	-2.29	0.95	-5.99	-1166.01	-2278.72	-2275.49	-1169.24	59.85
1	72	11	5.14	-11.75	-3.04	-3.56	8.44	-1043.82	-1921.82	-1919.47	-1046.17	-45.38
1	72	13	8.15	-9.25	-2.38	1.27	-8.50	-984.22	-1868.86	-1868.86	-984.22	1.02
1	72	15	2.35	-2.31	2.17	-2.14	-0.88	-1198.63	-1960.44	-1954.60	-1204.47	66.45
1	72	17	3.64	-2.37	3.54	-2.27	0.76	-1137.59	-1926.97	-1921.66	-1142.91	-64.54
1	72	19	0.53	-8.60e-02	0.31	0.14	0.30	-408.48	-837.16	-656.98	-588.67	-211.60
1	72	21	0.27	-0.48	-0.37	0.15	0.27	-385.89	-808.68	-640.34	-554.24	206.96
1	72	22	4.30	-1.94	3.83	-1.48	1.63	427.10	-287.81	-211.85	351.13	-220.32
1	72	23	2.03	-0.41	-0.32	1.94	0.47	606.90	8.22	255.54	359.58	-294.79
1	72	24	2.95	-2.70	1.45	-1.21	2.50	448.04	-7.68	358.69	81.67	-180.93
1	72	25	0.86	0.11	0.47	0.50	-0.38	643.73	370.27	556.90	457.10	-127.30
1	72	26	0.46	-2.12	-2.11	0.45	-0.16	635.63	175.42	604.13	206.91	-116.20
1	72	27	0.38	-0.47	-0.45	0.35	-0.14	640.22	479.26	636.00	483.48	25.72
1	72	28	1.12e-03	-1.44	-1.44	9.90e-04	1.35e-02	716.01	239.20	713.81	241.41	32.36
1	72	29	0.92	-0.84	-0.84	0.91	6.85e-02	690.46	320.99	536.96	474.49	182.07
1	72	30	0.43	-1.90	-1.60	0.13	0.78	682.79	138.86	600.51	221.14	194.89
1	72	31	2.15	3.85e-02	0.26	1.94	-0.64	635.05	49.88	257.67	427.27	280.02
1	72	32	-0.19	-5.29	-5.01	-0.46	1.15	443.34	-127.42	202.03	113.89	281.95
1	72	33	3.91	-2.51	-1.64	3.03	-2.20	497.41	-520.73	-298.11	274.79	420.83
1	72	34	8.03	-7.31	8.01	-7.29	0.56	-10.63	-407.55	-254.86	-163.33	193.11
1	72	35	12.05	-11.89	12.00	-11.84	-1.09	499.14	-981.25	-980.88	498.78	23.18
1	72	36	8.82	-8.47	-0.97	1.31	-8.57	-666.61	-1146.90	-1125.68	-687.83	98.70
1	72	37	2.38	-2.59	-0.73	0.53	2.40	223.56	-157.64	18.10	47.82	190.02
1	72	38	3.02	-2.27	-1.93	2.68	1.30	456.50	-347.54	-173.54	282.50	-331.10
1	72	39	6.95	-7.67	6.62	-7.35	-2.16	61.22	-224.89	-101.81	-61.86	-141.65
1	72	40	1.69	-0.41	-0.14	1.42	0.70	554.48	177.52	286.66	445.33	-170.97
1	72	41	-2.88e-02	-5.18	-4.86	-0.35	-1.24	379.34	18.24	259.41	138.18	-170.07
1	72	42	0.84	-1.00	-0.99	0.84	-0.11	553.94	421.55	490.35	485.14	-66.14
1	72	43	0.41	-2.11	-1.88	0.17	-0.73	565.73	212.70	552.07	226.36	-68.09
1	72	44	0.65	-0.70	-0.70	0.65	-4.73e-03	568.10	409.27	488.91	488.46	79.41
1	72	45	3.82e-02	-1.83	-1.81	1.44e-02	0.21	569.57	206.81	549.09	227.28	83.71
1	72	46	1.12	0.93	0.98	1.07	-7.91e-02	574.59	164.89	284.49	454.99	186.27
1	72	47	-1.08	-3.99	-3.98	-1.08	0.14	378.14	6.36	246.07	138.43	177.93
1	72	48	1.89	0.94	1.35	1.49	-0.47	513.19	-340.69	-190.96	363.46	324.71
1	72	49	7.81	-4.59	7.81	-4.59	0.16	-71.62	-237.35	-159.26	-149.71	82.73
1	72	50	22.55	1.16	22.55	1.17	6.04e-02	633.07	-425.61	-415.20	622.66	104.49
1	72	51	2.71	-1.14	2.63	-1.06	-0.57	577.87	-659.53	-602.85	521.19	-258.70
1	72	52	10.23	-7.54	-6.50e-02	2.75	8.78	-730.83	-1126.03	-1115.37	-741.49	-64.02
1	72	53	4.49	-1.03	-0.78	4.24	-1.14	513.12	-109.12	50.47	353.54	-271.72

1	72	54	2.52	-4.54	-2.78	0.75	-3.06	210.71	-156.93	1.99	51.79	-182.13
1	72	55	1.72	-1.18	-0.83	1.37	-0.93	588.88	263.47	393.59	458.76	-159.41
1	72	56	1.07	-1.85	-1.12	0.34	-1.27	515.77	123.57	439.41	199.92	-155.29
1	72	57	0.57	-0.72	-0.59	0.45	-0.38	529.35	480.39	523.95	485.79	-15.33
1	72	58	0.17	-1.39	-1.32	9.40e-02	-0.33	591.93	237.72	591.40	238.25	-13.66
1	72	59	0.71	-0.56	-0.56	0.71	-5.19e-02	588.00	323.99	436.42	475.57	130.55
1	72	60	0.13	-1.58	-1.46	6.04e-03	0.44	547.93	158.76	490.80	215.89	137.73
1	72	61	1.70	0.95	1.11	1.54	-0.31	543.39	22.89	145.70	420.58	220.99
1	72	62	-1.44	-4.23	-4.13	-1.55	0.52	294.43	-125.28	73.88	95.26	209.59
1	72	63	2.99	-0.21	2.14	0.64	-1.41	456.01	-575.28	-441.30	322.02	346.73
1	72	64	9.72	-4.94	9.59	-4.81	1.37	-282.24	-463.70	-442.03	-303.90	58.84
1	72	65	26.18	-2.68	26.12	-2.62	1.27	607.15	-661.84	-659.66	604.97	52.54
1	72	66	3.87	-1.66	3.34	-1.13	1.63	540.71	-865.59	-756.10	431.21	-376.82
1	72	67	8.43	-2.67	4.55	1.22	5.29	-718.18	-1153.17	-1135.53	-735.83	-85.81
1	72	68	4.18	-9.60e-02	7.07e-02	4.02	-0.83	563.91	-240.42	-19.20	342.69	-359.16
1	72	69	0.93	-4.61	-3.29	-0.38	-2.35	261.89	-343.69	-110.17	28.37	-294.76
1	72	70	1.47	-0.86	-0.65	1.26	-0.67	687.28	150.62	391.24	446.66	-266.90
1	72	71	0.87	-1.70	-1.05	0.21	-1.12	615.69	11.76	435.57	191.89	-276.29
1	72	72	0.33	-0.48	-0.40	0.25	-0.24	678.82	405.45	606.34	477.92	-120.67
1	72	73	7.94e-02	-1.24	-1.15	-5.50e-03	-0.32	717.90	203.17	681.55	239.52	-131.87
1	72	74	0.37	-0.27	-0.17	0.27	0.23	638.75	463.50	627.91	474.34	42.20
1	72	75	-9.38e-02	-1.10	-1.09	-0.10	7.96e-02	707.44	232.03	704.54	234.92	36.98
1	72	76	1.75	0.13	0.96	0.93	0.81	647.73	257.47	477.47	427.73	193.54
1	72	77	0.20	-1.66	-1.66	0.20	3.04e-02	573.39	102.56	504.98	170.98	165.93
1	72	78	2.47	1.27	1.27	2.47	-4.73e-02	571.69	-152.23	90.77	328.70	341.85
1	72	79	4.12	-1.49	2.08	0.56	-2.70	224.80	-172.86	133.43	-81.49	167.29
1	72	80	5.96	-0.56	4.34	1.06	-2.81	452.33	-232.20	-164.33	384.46	204.58
1	72	81	3.41	2.02	2.34	3.09	-0.58	998.46	-21.73	53.41	923.33	-266.48
1	72	82	3.54	0.16	1.14	2.56	-1.53	976.89	176.27	260.20	892.96	-245.26
1	72	83	2.30	-0.11	0.94	1.24	-1.19	909.49	421.42	455.71	875.20	-124.74
1	72	84	1.11	0.16	0.76	0.51	-0.46	874.12	523.45	524.58	872.99	19.84
1	72	85	0.79	0.63	0.64	0.78	3.61e-02	938.87	396.86	449.19	886.53	160.09
1	72	86	2.94	0.19	0.58	2.56	0.96	1019.35	144.52	229.73	934.14	259.39
1	72	87	3.90	1.54e-02	3.40e-02	3.88	0.27	1063.87	-140.21	-80.92	1004.59	260.52
1	72	88	6.47	3.35	5.99	3.84	-1.13	1121.39	-208.10	-207.40	1120.69	30.62
1	72	89	1.14	-1.58	-0.88	0.43	1.19	515.52	118.71	438.32	195.91	157.08
1	72	90	3.69	0.13	0.14	3.68	0.13	1031.08	-74.81	-39.28	995.56	-195.01
1	72	91	2.92	0.11	0.78	2.25	-1.19	979.15	215.39	252.90	941.65	-165.03
1	72	92	0.88	0.63	0.72	0.79	-0.12	920.01	402.63	409.78	912.85	-60.41
1	72	93	1.30	0.35	0.89	0.75	0.47	926.56	403.83	411.97	918.42	64.71
1	72	94	3.44	-0.11	1.11	2.23	1.68	995.50	224.56	259.17	960.90	159.63
1	72	95	6.08	-0.96	0.30	4.81	2.70	1053.43	3.50	28.86	1028.07	161.19
1	72	96	8.80	-1.81	-1.09	8.09	-2.66	1111.02	-84.61	-84.36	1110.77	-17.38
1	72	97	4.88	-2.17	0.26	2.45	-3.36	1054.33	-96.42	-91.08	1048.99	-78.20
1	72	98	1.65	-0.15	-0.15	1.65	-8.44e-02	1013.71	39.51	74.43	978.79	-181.11
1	72	99	1.27	-1.62e-02	0.17	1.08	-0.46	943.46	307.38	337.73	913.10	-135.59
1	72	100	0.74	0.40	0.46	0.68	-0.13	902.50	434.70	435.19	902.01	-15.12
1	72	101	1.21	0.36	0.81	0.76	0.43	932.37	345.59	367.12	910.84	110.33
1	72	102	3.41	2.44e-02	1.12	2.31	1.58	1002.55	98.81	140.85	960.51	190.33
1	72	103	6.62	-1.33	0.54	4.74	3.38	1054.69	-150.41	-131.28	1035.56	150.61
1	72	104	11.13	-0.77	-0.47	10.83	-1.86	1143.23	-205.14	-203.47	1141.56	-47.40
1	72	105	5.96	-2.54	0.37	3.05	-4.04	1068.46	-242.26	-223.01	1049.21	-157.70
1	72	106	1.97	0.12	0.18	1.91	-0.33	1037.46	-63.64	9.79	964.03	-274.71
1	72	107	1.17	0.16	0.38	0.96	-0.41	973.48	250.30	334.30	889.48	-231.71
1	72	108	0.53	0.47	0.52	0.48	-2.41e-02	897.80	473.02	501.06	869.75	-105.48
1	72	109	1.16	5.75e-02	0.72	0.50	0.54	868.56	510.74	515.73	863.58	41.94
1	72	110	2.48	-0.18	0.78	1.53	1.28	932.88	326.26	385.82	873.33	180.50
1	72	111	4.06	-0.64	0.22	3.21	1.81	989.79	76.98	163.62	903.16	267.54
1	72	112	3.90	1.06	1.07	3.89	-0.17	998.53	-17.29	57.13	924.11	264.69
1	72	113	2.62	7.11e-02	0.18	2.52	-0.52	1340.67	45.69	89.29	1297.07	-233.57
1	72	114	2.61	2.97e-02	0.53	2.11	-1.02	1285.06	222.52	251.61	1255.97	-173.39
1	72	115	2.15	8.56e-02	0.84	1.40	-1.00	1236.11	377.17	386.88	1226.40	-90.80
1	72	116	1.49	0.48	1.05	0.92	-0.50	1221.15	441.43	441.68	1220.91	13.75
1	72	117	1.24	1.01	1.11	1.14	0.11	1259.77	382.97	397.12	1245.63	110.46
1	72	118	2.44	0.71	0.90	2.25	0.55	1325.33	243.89	268.59	1300.62	161.59
1	72	119	3.33	0.72	0.76	3.29	0.30	1382.13	104.16	118.14	1368.15	132.93
1	72	120	3.57	1.25	1.28	3.55	-0.24	1403.50	54.91	55.71	1402.70	32.88
1	72	121	0.22	-1.25	-1.18	0.15	0.32	590.64	231.61	590.06	232.19	14.37
1	72	122	3.28	0.80	0.94	3.14	-0.59	1377.30	124.31	129.35	1372.26	-79.31
1	72	123	2.48	0.73	1.06	2.15	-0.69	1327.15	265.45	273.47	1319.12	-91.94
1	72	124	1.45	1.11	1.31	1.25	-0.16	1290.34	367.52	369.15	1288.71	-38.74
1	72	125	1.90	0.71	1.28	1.33	0.59	1294.27	373.78	375.18	1292.87	35.91
1	72	126	3.12	0.23	0.86	2.49	1.19	1336.05	290.34	296.91	1329.48	82.64
1	72	127	3.95	-9.01e-02	1.33e-02	3.85	0.64	1378.70	188.90	192.46	1375.14	64.93
1	72	128	3.98	0.37	0.38	3.96	-0.21	1394.95	158.95	158.97	1394.92	5.53
1	72	129	3.63	-0.40	-0.13	3.36	-1.01	1390.62	147.74	148.07	1390.29	-20.11

1	72	130	2.47	0.33	0.76	2.04	-0.85	1361.80	205.35	211.68	1355.47	-85.33
1	72	131	1.41	0.66	0.89	1.17	-0.35	1307.87	321.27	327.57	1301.57	-78.59
1	72	132	1.10	0.88	1.01	0.97	0.11	1277.41	383.22	383.33	1277.30	-10.18
1	72	133	1.95	0.47	1.12	1.29	0.73	1294.85	334.89	339.36	1290.39	65.32
1	72	134	3.39	9.06e-02	0.82	2.66	1.37	1344.12	207.43	215.52	1336.03	95.57
1	72	135	4.51	-0.31	-0.15	4.35	0.86	1385.66	89.27	90.94	1383.99	46.50
1	72	136	4.57	0.52	0.52	4.57	-1.36e-02	1398.11	69.91	70.47	1397.55	-27.48
1	72	137	4.28	-0.53	-0.26	4.01	-1.10	1393.66	55.59	59.40	1389.85	-71.29
1	72	138	2.88	0.24	0.75	2.37	-1.04	1358.35	138.73	158.97	1338.10	-155.81
1	72	139	1.50	0.56	0.88	1.17	-0.45	1290.70	296.27	320.74	1266.23	-154.06
1	72	140	0.90	0.77	0.88	0.80	5.19e-02	1230.01	418.88	426.10	1222.79	-76.17
1	72	141	1.46	0.29	0.83	0.92	0.58	1213.47	429.70	430.88	1212.29	30.39
1	72	142	2.23	-2.54e-02	0.55	1.65	0.98	1249.17	319.71	338.00	1230.89	129.08
1	72	143	2.75	-0.13	0.16	2.46	0.87	1302.47	155.07	189.30	1268.24	195.21
1	72	144	2.73	-2.02e-02	1.95e-02	2.69	0.33	1337.91	48.93	92.34	1294.50	232.55
1	72	145	1.86	-5.53e-03	5.05e-02	1.81	-0.32	1574.77	75.90	95.43	1555.24	-169.98
1	72	146	2.00	6.94e-02	0.31	1.76	-0.63	1522.70	225.08	236.00	1511.78	-118.55
1	72	147	1.81	0.29	0.65	1.44	-0.65	1488.14	338.30	341.52	1484.92	-60.75
1	72	148	1.48	0.68	0.90	1.26	-0.35	1481.19	390.06	390.11	1481.14	7.45
1	72	149	1.49	0.95	0.96	1.49	5.18e-02	1508.01	369.36	373.31	1504.06	66.94
1	72	150	2.20	0.75	0.81	2.14	0.30	1555.04	300.04	307.21	1547.87	94.59
1	72	151	2.81	0.63	0.65	2.79	0.18	1598.55	230.08	234.27	1594.36	75.58
1	72	152	3.03	0.65	0.66	3.03	-0.11	1617.85	202.27	202.75	1617.37	26.08
1	72	153	0.11	-1.35	-1.27	3.10e-02	-0.32	545.95	155.81	489.99	211.77	-136.75
1	72	154	2.84	0.69	0.78	2.75	-0.42	1608.29	235.18	235.91	1607.56	-31.78
1	72	155	2.29	0.87	1.01	2.15	-0.42	1580.82	304.93	306.56	1579.20	-45.50
1	72	156	1.70	1.17	1.18	1.69	-8.55e-02	1559.56	359.71	360.09	1559.18	-21.44
1	72	157	1.93	0.93	1.10	1.76	0.38	1561.17	367.90	368.13	1560.93	16.65
1	72	158	2.55	0.54	0.75	2.34	0.60	1583.82	331.68	332.95	1582.55	39.86
1	72	159	2.93	0.34	0.37	2.90	0.28	1608.94	286.37	287.05	1608.26	29.83
1	72	160	2.83	0.44	0.44	2.82	-7.10e-02	1617.19	273.90	273.90	1617.19	2.14
1	72	161	2.79	0.30	0.37	2.73	-0.40	1616.60	270.42	270.47	1616.56	-7.73
1	72	162	2.20	0.57	0.74	2.03	-0.50	1599.61	292.67	293.85	1598.43	-39.36
1	72	163	1.56	0.87	0.97	1.45	-0.25	1569.83	341.89	343.09	1568.64	-38.28
1	72	164	1.40	0.97	1.04	1.32	0.16	1551.96	366.96	366.98	1551.94	-5.19
1	72	165	2.01	0.61	0.93	1.68	0.59	1560.59	339.88	340.74	1559.72	32.49
1	72	166	2.79	0.28	0.55	2.52	0.79	1587.47	274.86	276.34	1585.99	44.10
1	72	167	3.33	8.05e-02	0.13	3.28	0.40	1610.14	217.80	217.95	1609.99	14.36
1	72	168	3.23	0.19	0.19	3.23	-1.25e-02	1612.36	208.40	208.81	1611.95	-23.90
1	72	169	3.21	6.42e-02	0.12	3.16	-0.40	1609.34	205.80	207.14	1608.00	-43.31
1	72	170	2.51	0.33	0.52	2.32	-0.61	1579.12	246.23	252.14	1573.20	-88.59
1	72	171	1.66	0.62	0.78	1.50	-0.38	1530.02	324.33	331.16	1523.19	-90.48
1	72	172	1.13	0.83	0.83	1.13	2.47e-02	1487.21	382.40	384.39	1485.22	-46.86
1	72	173	1.42	0.48	0.71	1.19	0.40	1473.62	376.47	376.84	1473.25	20.15
1	72	174	1.83	0.18	0.44	1.57	0.61	1494.31	297.42	303.66	1488.07	86.16
1	72	175	2.08	2.51e-02	0.15	1.96	0.48	1536.33	171.41	185.06	1522.68	135.82
1	72	176	2.09	-7.19e-03	3.57e-02	2.05	0.30	1570.93	77.75	97.26	1551.43	169.55
1	72	177	1.44	3.04e-02	5.70e-02	1.42	-0.19	1724.60	86.30	93.02	1717.88	-104.72
1	72	178	1.60	0.16	0.25	1.52	-0.35	1680.32	217.97	221.43	1676.86	-71.06
1	72	179	1.57	0.39	0.51	1.45	-0.35	1654.92	312.73	313.69	1653.96	-35.84
1	72	180	1.50	0.66	0.72	1.44	-0.20	1651.44	361.63	361.63	1651.43	3.20
1	72	181	1.66	0.78	0.78	1.66	5.91e-03	1670.91	362.90	363.88	1669.93	35.81
1	72	182	2.09	0.68	0.69	2.08	0.13	1704.60	332.03	333.86	1702.77	50.20
1	72	183	2.49	0.58	0.58	2.49	8.06e-02	1737.36	297.39	298.54	1736.21	40.66
1	72	184	2.66	0.56	0.56	2.66	-6.16e-02	1754.69	282.21	282.40	1754.49	17.09
1	72	185	-1.76	-2.78	-1.77	-2.77	9.59e-02	301.26	-116.54	88.85	95.88	-208.87
1	72	186	2.54	0.66	0.69	2.51	-0.22	1754.88	297.87	297.96	1754.80	-11.27
1	72	187	2.21	0.85	0.88	2.17	-0.21	1742.22	334.14	334.43	1741.93	-20.08
1	72	188	1.92	1.00	1.00	1.92	-3.34e-02	1731.24	364.60	364.68	1731.16	-10.51
1	72	189	1.97	0.91	0.95	1.93	0.19	1731.90	372.66	372.69	1731.86	6.75
1	72	190	2.24	0.69	0.74	2.19	0.28	1743.83	358.29	358.51	1743.61	17.41
1	72	191	2.41	0.55	0.55	2.40	0.12	1757.48	338.78	338.90	1757.36	12.89
1	72	192	2.33	0.56	0.56	2.33	-4.33e-02	1762.09	334.27	334.27	1762.09	0.70
1	72	193	2.31	0.55	0.57	2.30	-0.15	1761.78	332.52	332.52	1761.78	-3.13
1	72	194	1.98	0.70	0.74	1.94	-0.23	1752.45	339.89	340.10	1752.24	-17.01
1	72	195	1.63	0.89	0.91	1.61	-0.12	1736.64	359.96	360.16	1736.44	-16.75
1	72	196	1.58	0.91	0.93	1.56	0.12	1726.83	367.93	367.93	1726.83	-2.19
1	72	197	1.93	0.68	0.78	1.83	0.34	1730.52	351.11	351.26	1730.37	14.34
1	72	198	2.40	0.40	0.49	2.32	0.40	1743.42	316.50	316.73	1743.19	18.08
1	72	199	2.70	0.23	0.25	2.69	0.19	1752.70	288.12	288.13	1752.69	2.41
1	72	200	2.66	0.22	0.22	2.66	-1.76e-02	1750.28	284.74	284.92	1750.10	-16.24
1	72	201	2.63	0.22	0.23	2.62	-0.15	1746.45	283.84	284.26	1746.02	-25.00
1	72	202	2.23	0.37	0.42	2.17	-0.30	1721.54	303.53	305.08	1719.99	-46.78
1	72	203	1.70	0.58	0.63	1.65	-0.22	1685.94	341.26	342.95	1684.25	-47.62
1	72	204	1.35	0.69	0.69	1.35	6.82e-04	1655.57	363.83	364.31	1655.10	-24.80
1	72	205	1.38	0.53	0.59	1.32	0.22	1644.55	345.79	345.90	1644.44	12.25

1	72	206	1.58	0.29	0.38	1.49	0.33	1657.55	278.43	280.31	1655.68	50.86
1	72	207	1.71	0.11	0.16	1.67	0.27	1690.47	171.15	175.63	1685.99	82.33
1	72	208	1.72	3.78e-02	6.04e-02	1.70	0.19	1720.26	87.53	94.26	1713.53	104.63
1	72	209	1.23	5.47e-02	6.00e-02	1.23	-7.91e-02	1802.78	89.16	90.19	1801.76	-41.91
1	72	210	1.41	0.21	0.23	1.40	-0.13	1763.46	212.06	212.56	1762.95	-28.10
1	72	211	1.46	0.43	0.44	1.44	-0.13	1742.54	299.47	299.61	1742.40	-13.99
1	72	212	1.52	0.61	0.62	1.52	-7.64e-02	1740.35	348.38	348.38	1740.35	1.23
1	72	213	1.72	0.68	0.68	1.72	-9.30e-03	1755.97	360.48	360.62	1755.83	13.70
1	72	214	2.04	0.63	0.63	2.04	2.89e-02	1782.69	347.52	347.77	1782.44	19.13
1	72	215	2.35	0.56	0.56	2.35	1.54e-02	1809.66	328.88	329.05	1809.49	15.69
1	72	216	2.49	0.55	0.55	2.49	-2.18e-02	1825.76	319.68	319.72	1825.72	7.20
1	72	217	6.57	-1.42	6.56	-1.42	0.25	-226.21	-495.11	-463.01	-258.31	-87.18
1	72	218	2.41	0.66	0.66	2.41	-6.32e-02	1830.61	328.46	328.47	1830.60	-3.22
1	72	219	2.18	0.81	0.81	2.18	-5.23e-02	1825.24	350.60	350.64	1825.21	-6.89
1	72	220	2.00	0.91	0.91	2.00	4.62e-03	1819.46	370.33	370.34	1819.45	-3.98
1	72	221	1.99	0.87	0.87	1.98	7.09e-02	1819.91	377.83	377.84	1819.91	1.89
1	72	222	2.11	0.73	0.74	2.10	9.12e-02	1826.93	372.30	372.32	1826.91	5.60
1	72	223	2.18	0.63	0.63	2.18	4.07e-02	1835.10	363.27	363.28	1835.09	4.15
1	72	224	2.12	0.63	0.63	2.12	-1.33e-02	1838.01	361.97	361.97	1838.01	0.13
1	72	225	2.10	0.64	0.64	2.10	-3.92e-02	1837.76	360.58	360.58	1837.76	-1.05
1	72	226	1.88	0.74	0.75	1.88	-7.04e-02	1832.00	362.21	362.23	1831.98	-5.59
1	72	227	1.68	0.85	0.85	1.68	-3.34e-02	1822.56	370.75	370.77	1822.54	-5.46
1	72	228	1.67	0.84	0.85	1.67	4.79e-02	1816.46	372.03	372.03	1816.46	-0.60
1	72	229	1.89	0.69	0.70	1.87	0.12	1817.87	359.66	359.67	1817.86	4.80
1	72	230	2.21	0.46	0.47	2.20	0.13	1823.98	337.98	338.00	1823.96	5.65
1	72	231	2.42	0.29	0.30	2.42	6.08e-02	1826.56	321.53	321.53	1826.56	-0.21
1	72	232	2.40	0.26	0.26	2.40	-1.05e-02	1821.90	320.63	320.66	1821.87	-6.88
1	72	233	2.37	0.28	0.28	2.37	-4.40e-02	1817.76	319.79	319.85	1817.69	-9.90
1	72	234	2.09	0.38	0.39	2.08	-0.11	1795.81	330.17	330.38	1795.60	-17.54
1	72	235	1.71	0.53	0.54	1.71	-8.48e-02	1767.21	349.77	349.99	1766.99	-17.68
1	72	236	1.45	0.59	0.59	1.45	-9.19e-03	1743.25	355.88	355.94	1743.19	-9.14
1	72	237	1.39	0.51	0.52	1.39	7.13e-02	1733.95	331.13	331.15	1733.93	4.99
1	72	238	1.47	0.33	0.34	1.46	0.12	1743.68	267.53	267.80	1743.41	20.15
1	72	239	1.54	0.15	0.16	1.53	9.99e-02	1771.72	168.30	168.98	1771.04	32.97
1	72	240	1.53	6.16e-02	6.57e-02	1.53	7.78e-02	1798.30	90.10	91.15	1797.26	42.18
1	72	241	1.20	5.71e-02	5.78e-02	1.20	2.72e-02	1815.36	89.57	89.79	1815.14	19.44
1	72	242	1.39	0.22	0.22	1.39	6.46e-02	1776.83	211.13	211.24	1776.72	13.00
1	72	243	1.45	0.43	0.44	1.44	7.80e-02	1756.70	297.34	297.37	1756.67	6.68
1	72	244	1.52	0.62	0.62	1.51	4.85e-02	1754.83	346.16	346.16	1754.83	0.29
1	72	245	1.71	0.69	0.69	1.71	-6.70e-03	1769.91	359.97	359.99	1769.90	-4.66
1	72	246	2.03	0.65	0.65	2.03	-4.69e-02	1795.50	350.05	350.08	1795.46	-6.75
1	72	247	2.35	0.58	0.58	2.34	-3.56e-02	1821.43	334.26	334.28	1821.41	-5.69
1	72	248	2.49	0.57	0.57	2.49	1.44e-02	1837.26	326.19	326.20	1837.26	-2.96
1	72	249	7.67	-4.87	1.66	1.14	-6.27	-650.28	-1199.36	-1168.51	-681.12	126.43
1	72	250	2.41	0.67	0.68	2.41	7.79e-02	1842.90	333.79	333.79	1842.90	0.38
1	72	251	2.18	0.82	0.83	2.18	8.37e-02	1838.79	353.40	353.40	1838.79	1.61
1	72	252	1.99	0.91	0.91	1.99	3.70e-02	1833.88	371.18	371.18	1833.88	0.73
1	72	253	1.97	0.88	0.88	1.97	-2.25e-02	1834.25	378.53	378.53	1834.25	-1.14
1	72	254	2.08	0.75	0.75	2.08	-4.68e-02	1840.37	374.46	374.46	1840.37	-2.31
1	72	255	2.16	0.64	0.64	2.16	-1.79e-02	1847.59	367.13	367.13	1847.59	-1.72
1	72	256	2.10	0.64	0.64	2.10	1.65e-02	1850.21	366.31	366.31	1850.21	-0.22
1	72	257	2.08	0.65	0.65	2.07	3.43e-02	1849.97	364.95	364.95	1849.97	0.24
1	72	258	1.87	0.74	0.75	1.87	5.07e-02	1844.80	365.63	365.63	1844.79	2.05
1	72	259	1.68	0.84	0.84	1.68	2.33e-02	1836.36	372.39	372.40	1836.36	2.17
1	72	260	1.67	0.83	0.84	1.67	-3.02e-02	1830.85	372.70	372.70	1830.85	0.47
1	72	261	1.88	0.69	0.69	1.87	-7.83e-02	1831.92	361.10	361.10	1831.92	-1.49
1	72	262	2.19	0.47	0.47	2.18	-8.85e-02	1836.94	341.52	341.53	1836.94	-1.76
1	72	263	2.39	0.30	0.30	2.39	-4.59e-02	1838.44	326.99	326.99	1838.44	0.46
1	72	264	2.37	0.27	0.27	2.37	-3.64e-03	1833.43	326.44	326.45	1833.42	2.97
1	72	265	2.34	0.28	0.28	2.34	1.78e-02	1829.26	325.55	325.56	1829.25	4.13
1	72	266	2.06	0.39	0.39	2.06	4.85e-02	1807.86	334.35	334.38	1807.83	7.11
1	72	267	1.71	0.53	0.53	1.70	2.91e-02	1780.40	351.05	351.09	1780.37	7.20
1	72	268	1.46	0.58	0.58	1.46	-1.66e-02	1757.45	354.61	354.62	1757.44	3.73
1	72	269	1.40	0.50	0.51	1.39	-5.72e-02	1748.41	328.83	328.84	1748.41	-2.22
1	72	270	1.46	0.33	0.34	1.46	-7.17e-02	1757.64	265.81	265.86	1757.58	-8.82
1	72	271	1.52	0.15	0.16	1.52	-5.32e-02	1784.90	167.82	167.95	1784.77	-14.60
1	72	272	1.51	6.36e-02	6.46e-02	1.51	-3.66e-02	1810.96	90.45	90.66	1810.75	-18.76
1	72	273	1.35	3.63e-02	4.95e-02	1.34	0.13	1763.32	88.36	92.35	1759.33	81.63
1	72	274	1.55	0.17	0.23	1.49	0.28	1721.27	215.88	217.88	1719.27	54.80
1	72	275	1.55	0.41	0.50	1.46	0.31	1698.41	306.18	306.73	1697.87	27.55
1	72	276	1.49	0.68	0.73	1.45	0.19	1696.08	354.21	354.21	1696.08	-1.39
1	72	277	1.63	0.82	0.82	1.63	2.51e-04	1713.98	360.84	361.30	1713.52	-24.71
1	72	278	2.05	0.74	0.76	2.03	-0.14	1744.18	340.06	340.91	1743.33	-34.63
1	72	279	2.47	0.64	0.65	2.46	-0.11	1773.75	315.13	315.68	1773.20	-28.28
1	72	280	2.66	0.62	0.62	2.66	4.70e-02	1790.30	303.77	303.88	1790.18	-12.97
1	72	281	0.80	-2.30	-0.79	-0.71	1.55	274.70	-333.88	-88.66	29.48	298.50

1	72	282	2.55	0.71	0.74	2.51	0.24	1793.08	315.03	315.05	1793.06	5.54
1	72	283	2.20	0.88	0.93	2.16	0.23	1784.47	342.31	342.41	1784.37	11.82
1	72	284	1.90	1.02	1.03	1.90	6.25e-02	1776.18	366.11	366.13	1776.15	6.23
1	72	285	1.93	0.94	0.96	1.91	-0.15	1776.44	373.89	373.90	1776.42	-4.72
1	72	286	2.18	0.72	0.75	2.14	-0.22	1785.40	364.90	364.99	1785.31	-11.57
1	72	287	2.33	0.58	0.58	2.32	-9.46e-02	1795.89	351.61	351.66	1795.83	-8.64
1	72	288	2.26	0.59	0.59	2.26	4.66e-02	1799.57	348.88	348.88	1799.57	-0.70
1	72	289	2.23	0.58	0.59	2.22	0.13	1799.31	347.18	347.18	1799.30	1.79
1	72	290	1.93	0.71	0.75	1.90	0.19	1791.95	351.03	351.12	1791.86	11.14
1	72	291	1.63	0.87	0.88	1.62	9.17e-02	1779.52	364.59	364.68	1779.43	11.29
1	72	292	1.60	0.88	0.89	1.58	-0.10	1771.68	368.95	368.95	1771.67	1.73
1	72	293	1.90	0.68	0.75	1.83	-0.29	1774.29	354.69	354.75	1774.24	-9.13
1	72	294	2.33	0.42	0.48	2.26	-0.33	1783.70	327.47	327.55	1783.62	-11.16
1	72	295	2.60	0.26	0.27	2.59	-0.16	1789.47	305.94	305.94	1789.47	-0.19
1	72	296	2.56	0.24	0.24	2.56	7.33e-03	1785.92	303.96	304.06	1785.81	12.54
1	72	297	2.52	0.25	0.26	2.52	0.11	1781.98	302.93	303.16	1781.75	18.49
1	72	298	2.15	0.40	0.43	2.12	0.23	1758.72	317.28	318.06	1757.94	33.55
1	72	299	1.68	0.58	0.61	1.65	0.15	1726.70	345.23	346.08	1725.85	34.24
1	72	300	1.38	0.66	0.66	1.38	-2.99e-02	1699.46	359.38	359.62	1699.22	17.89
1	72	301	1.40	0.52	0.56	1.35	-0.20	1689.16	338.31	338.37	1689.09	-9.35
1	72	302	1.56	0.30	0.36	1.49	-0.27	1700.36	273.42	274.46	1699.33	-38.45
1	72	303	1.65	0.12	0.16	1.62	-0.21	1730.86	170.47	173.02	1728.31	-62.99
1	72	304	1.65	4.48e-02	5.87e-02	1.63	-0.15	1759.23	89.35	93.24	1755.34	-80.53
1	72	305	1.72	2.67e-03	3.69e-02	1.68	0.24	1642.79	82.71	96.60	1628.89	146.57
1	72	306	1.94	9.29e-02	0.29	1.75	0.57	1593.34	224.49	231.82	1586.01	99.89
1	72	307	1.80	0.31	0.64	1.47	0.61	1563.48	326.94	328.99	1561.43	50.24
1	72	308	1.52	0.67	0.91	1.28	0.38	1558.96	375.12	375.15	1558.93	-5.35
1	72	309	1.44	1.02	1.02	1.44	1.18e-02	1583.17	364.10	366.33	1580.94	-52.07
1	72	310	2.09	0.88	0.95	2.02	-0.28	1624.56	314.82	318.81	1620.57	-72.19
1	72	311	2.76	0.76	0.79	2.73	-0.24	1662.91	265.53	267.90	1660.55	-57.46
1	72	312	3.05	0.75	0.75	3.05	7.90e-02	1681.05	245.96	246.30	1680.70	-22.27
1	72	313	0.93	-1.45	-0.81	0.29	1.05	616.06	8.61	435.32	189.35	277.71
1	72	314	2.85	0.78	0.88	2.75	0.45	1676.51	268.11	268.37	1676.26	19.04
1	72	315	2.26	0.95	1.11	2.10	0.42	1656.32	317.48	318.19	1655.61	30.79
1	72	316	1.68	1.21	1.22	1.67	7.10e-02	1639.43	358.38	358.56	1639.25	15.30
1	72	317	1.90	0.95	1.10	1.75	-0.34	1639.96	366.82	366.92	1639.85	-11.64
1	72	318	2.44	0.59	0.76	2.28	-0.53	1656.99	343.13	343.73	1656.39	-28.07
1	72	319	2.78	0.41	0.43	2.75	-0.24	1676.11	312.45	312.78	1675.79	-21.14
1	72	320	2.67	0.49	0.50	2.67	8.28e-02	1682.68	304.23	304.23	1682.68	-1.87
1	72	321	2.63	0.38	0.43	2.58	0.34	1682.17	300.93	300.95	1682.15	4.88
1	72	322	2.09	0.62	0.75	1.96	0.42	1669.14	314.48	315.05	1668.57	27.76
1	72	323	1.53	0.88	0.94	1.47	0.19	1645.86	348.39	348.98	1645.27	27.81
1	72	324	1.44	0.92	0.98	1.38	-0.16	1631.78	364.92	364.94	1631.77	3.92
1	72	325	1.95	0.63	0.87	1.71	-0.51	1638.50	343.09	343.51	1638.08	-23.26
1	72	326	2.65	0.32	0.54	2.43	-0.67	1659.13	294.24	294.91	1658.46	-30.22
1	72	327	3.13	0.14	0.18	3.09	-0.35	1675.35	252.99	253.03	1675.32	-7.34
1	72	328	3.04	0.23	0.23	3.04	2.15e-02	1675.44	247.07	247.37	1675.13	20.78
1	72	329	3.00	0.13	0.17	2.96	0.33	1672.07	244.52	245.37	1671.21	34.86
1	72	330	2.35	0.39	0.53	2.22	0.50	1644.54	273.52	276.98	1641.08	68.87
1	72	331	1.61	0.66	0.75	1.52	0.28	1601.41	331.31	335.30	1597.42	71.11
1	72	332	1.21	0.78	0.78	1.20	-5.75e-02	1563.99	372.71	373.88	1562.83	37.25
1	72	333	1.43	0.50	0.68	1.25	-0.36	1551.41	361.94	362.17	1551.18	-16.69
1	72	334	1.77	0.22	0.43	1.56	-0.53	1568.32	289.88	293.88	1564.32	-71.34
1	72	335	1.98	5.88e-02	0.16	1.88	-0.42	1606.33	173.53	182.78	1597.09	-114.74
1	72	336	1.96	9.26e-03	4.23e-02	1.93	-0.25	1639.34	83.94	97.57	1625.72	-144.95
1	72	337	2.46	9.82e-02	0.18	2.38	0.43	1444.49	64.99	98.70	1410.77	213.00
1	72	338	2.59	8.08e-02	0.56	2.11	0.99	1387.62	230.47	250.54	1367.55	151.08
1	72	339	2.14	0.16	0.85	1.45	0.94	1345.23	360.64	366.72	1339.15	77.14
1	72	340	1.57	0.48	1.03	1.02	0.54	1333.92	415.45	415.59	1333.77	-11.62
1	72	341	1.21	1.06	1.15	1.12	7.33e-02	1368.06	372.54	381.12	1359.48	-91.99
1	72	342	2.14	0.96	1.12	1.97	-0.41	1428.18	267.03	281.54	1413.66	-129.01
1	72	343	3.24	0.95	1.05	3.15	-0.46	1480.85	168.56	176.72	1472.69	-103.14
1	72	344	3.68	1.40	1.41	3.67	0.16	1501.51	136.86	137.50	1500.86	-29.70
1	72	345	0.15	-1.16	-1.05	4.38e-02	0.36	717.01	197.87	680.71	234.17	132.39
1	72	346	3.35	0.94	1.17	3.13	0.70	1483.14	181.30	183.43	1481.02	52.58
1	72	347	2.31	0.92	1.25	1.98	0.59	1441.78	279.28	283.24	1437.82	67.69
1	72	348	1.33	1.25	1.32	1.26	2.45e-02	1409.10	357.28	358.20	1408.18	31.10
1	72	349	1.88	0.74	1.20	1.42	-0.56	1411.27	365.43	366.11	1410.59	-26.56
1	72	350	2.93	0.32	0.82	2.42	-1.03	1445.51	307.02	310.25	1442.28	-60.54
1	72	351	3.69	4.10e-02	0.13	3.60	-0.57	1479.85	237.94	239.74	1478.05	-47.17
1	72	352	3.67	0.50	0.52	3.65	0.24	1493.60	217.50	217.51	1493.59	-4.23
1	72	353	3.34	-0.18	4.07e-02	3.11	0.86	1489.54	207.61	207.74	1489.40	13.19
1	72	354	2.28	0.46	0.80	1.93	0.71	1466.98	244.15	247.31	1463.81	62.16
1	72	355	1.35	0.74	0.86	1.23	0.24	1422.20	327.27	330.59	1418.88	60.21
1	72	356	1.18	0.86	0.92	1.11	-0.13	1396.88	372.03	372.09	1396.82	7.85
1	72	357	1.86	0.55	1.01	1.39	-0.62	1411.50	333.21	335.59	1409.11	-50.65

1	72	358	3.12	0.18	0.75	2.55	-1.16	1452.97	236.69	240.67	1448.98	-69.50
1	72	359	4.17	-0.18	-4.01e-02	4.03	-0.76	1485.97	153.15	153.81	1485.31	-29.67
1	72	360	4.17	0.53	0.53	4.16	8.65e-02	1494.89	140.82	141.32	1494.39	26.11
1	72	361	3.91	-0.33	-0.12	3.70	0.91	1489.68	128.72	131.17	1487.23	57.74
1	72	362	2.61	0.36	0.75	2.21	0.86	1457.02	187.63	199.80	1444.84	123.72
1	72	363	1.42	0.66	0.85	1.24	0.33	1395.29	307.22	322.14	1380.37	126.54
1	72	364	0.99	0.79	0.83	0.95	-8.43e-02	1341.68	401.04	405.43	1337.30	64.09
1	72	365	1.44	0.39	0.79	1.04	-0.51	1326.89	405.13	405.86	1326.16	-25.92
1	72	366	2.09	0.11	0.58	1.62	-0.84	1355.98	312.15	323.98	1344.15	-110.50
1	72	367	2.61	-4.85e-02	0.23	2.33	-0.81	1405.29	167.86	192.28	1380.87	-172.10
1	72	368	2.56	3.78e-02	8.07e-02	2.51	-0.33	1442.12	66.70	99.68	1409.13	-210.44
1	72	369	3.74	2.09	2.68	3.16	0.79	1157.75	28.22	92.66	1093.31	261.98
1	72	370	3.62	0.22	1.31	2.54	1.59	1108.22	211.57	267.43	1052.36	216.72
1	72	371	2.01	0.21	0.98	1.24	0.89	1043.30	402.17	422.25	1023.21	111.70
1	72	372	1.27	0.25	0.72	0.80	0.51	1015.64	485.02	485.59	1015.07	-17.29
1	72	373	1.02	0.51	0.56	0.98	0.15	1065.52	388.40	420.16	1033.76	-143.16
1	72	374	1.81	0.64	0.64	1.81	-5.05e-02	1146.65	176.30	228.82	1094.13	-219.55
1	72	375	3.83	0.45	0.71	3.57	-0.90	1208.15	-21.55	14.02	1172.58	-206.09
1	72	376	6.57	4.03	6.26	4.34	0.83	1271.56	-50.48	-49.72	1270.80	-31.64
1	72	377	4.94e-02	-0.99	-0.97	3.74e-02	-0.11	706.53	226.89	703.70	229.72	-36.73
1	72	378	3.69	0.72	0.84	3.57	0.60	1188.99	23.14	41.07	1171.06	143.45
1	72	379	1.84	0.69	0.85	1.67	0.41	1126.70	223.54	244.65	1105.59	136.46
1	72	380	1.02	0.63	0.65	1.00	-8.80e-02	1070.87	379.87	384.14	1066.60	54.14
1	72	381	1.51	0.35	0.76	1.10	-0.56	1076.93	384.95	389.18	1072.71	-53.92
1	72	382	2.77	0.24	0.95	2.06	-1.13	1140.04	245.27	263.26	1122.05	-125.59
1	72	383	5.95	-0.96	0.27	4.72	-2.64	1197.74	100.91	114.43	1184.22	-121.02
1	72	384	8.09	-1.01	-0.20	7.28	2.58	1249.36	34.20	34.39	1249.16	15.55
1	72	385	4.63	-1.55	0.78	2.30	3.00	1202.33	28.51	31.51	1199.34	59.21
1	72	386	1.48	0.11	0.11	1.48	-6.57e-02	1161.07	109.13	126.25	1143.95	133.11
1	72	387	1.34	9.31e-02	0.20	1.24	0.35	1094.53	310.35	327.29	1077.59	113.98
1	72	388	0.90	0.46	0.47	0.89	5.15e-02	1057.39	408.60	408.86	1057.13	13.09
1	72	389	1.38	0.39	0.71	1.07	-0.46	1081.77	337.34	349.53	1069.58	-94.47
1	72	390	2.63	0.37	0.99	2.01	-1.00	1150.04	137.31	159.47	1127.88	-148.16
1	72	391	6.50	-1.36	0.36	4.78	-3.25	1203.46	-27.97	-18.34	1193.83	-108.45
1	72	392	9.73	-0.30	8.48e-02	9.35	1.91	1275.58	-71.50	-69.93	1274.02	45.86
1	72	393	5.45	-1.90	0.52	3.03	3.45	1213.22	-95.58	-83.24	1200.88	126.51
1	72	394	1.64	0.40	0.41	1.64	8.56e-02	1174.43	21.96	64.76	1131.63	217.93
1	72	395	1.30	0.24	0.39	1.15	0.36	1103.05	270.32	323.09	1050.28	202.87
1	72	396	0.70	0.56	0.56	0.70	-1.11e-02	1032.44	450.87	466.70	1016.61	94.64
1	72	397	1.26	0.24	0.71	0.78	-0.51	1012.07	475.14	477.91	1009.29	-38.50
1	72	398	2.08	0.19	0.84	1.44	-0.90	1064.00	327.01	363.25	1027.76	-159.36
1	72	399	3.70	-0.47	0.37	2.87	-1.67	1124.51	122.38	184.11	1062.79	-240.93
1	72	400	3.74	1.49	1.53	3.70	-0.30	1158.62	27.75	91.38	1095.00	-260.58
1	72	401	5.05	-1.77	4.41	-1.13	-1.99	704.69	-123.24	-38.57	620.01	250.87
1	72	402	1.98	-0.55	0.91	0.53	-1.25	729.15	74.77	240.90	563.02	284.80
1	72	403	1.85	-1.85e-02	0.28	1.55	0.69	708.31	421.77	514.48	615.60	134.05
1	72	404	0.69	-0.23	-0.20	0.67	0.16	637.71	577.86	587.58	627.99	-22.08
1	72	405	1.01	-0.73	-0.72	1.00	-0.15	747.54	372.07	496.55	623.07	-176.75
1	72	406	3.27	-1.33	-1.25	3.18	-0.62	767.08	78.20	237.35	607.93	-290.35
1	72	407	3.19	-2.58	0.76	-0.15	2.85	739.88	-383.38	-240.77	597.27	-373.96
1	72	408	12.18	-5.76	12.13	-5.71	0.96	842.94	-556.48	-555.99	842.44	-26.32
1	72	409	0.59	-1.09	-1.05	0.55	-0.25	577.53	99.60	510.49	166.64	-165.97
1	72	410	2.11	-1.89	0.39	-0.17	-1.98	691.74	-264.82	-155.33	582.24	304.55
1	72	411	2.39	-1.28	-1.26	2.37	0.29	693.42	188.24	263.22	618.44	179.59
1	72	412	0.95	-0.84	-0.84	0.94	0.11	658.72	431.32	452.06	637.97	65.48
1	72	413	0.87	-0.43	-0.40	0.84	-0.20	673.08	424.86	452.35	645.59	-77.90
1	72	414	3.04	-0.38	0.15	2.52	-1.23	728.23	184.05	266.70	645.57	-195.31
1	72	415	3.22	0.44	3.14	0.52	0.47	764.43	-204.75	-123.73	683.41	-268.26
1	72	416	16.33	4.45	16.07	4.71	1.74	868.66	-100.73	-98.80	866.73	-43.21
1	72	417	2.89	-1.75	2.16	-1.02	1.69	822.13	-379.20	-365.89	808.82	125.74
1	72	418	4.48	-2.07	-1.70	4.10	1.52	726.52	-71.71	39.09	615.72	275.99
1	72	419	1.67	-1.02	-0.69	1.35	0.87	702.83	293.00	366.32	629.50	157.08
1	72	420	0.73	-0.40	-0.30	0.64	0.31	644.16	483.42	485.00	642.58	15.88
1	72	421	0.80	-0.25	-0.20	0.75	-0.21	693.68	348.21	404.51	637.38	-127.60
1	72	422	3.35	-0.46	4.23e-02	2.85	-1.29	718.41	41.52	136.06	623.86	-234.65
1	72	423	4.54	-0.30	4.41	-0.17	0.78	754.29	-399.06	-331.99	687.22	-269.92
1	72	424	19.76	3.95	19.74	3.96	0.48	881.81	-257.09	-257.09	881.81	0.47
1	72	425	4.33	-1.53	4.32	-1.52	0.21	823.02	-551.68	-508.94	780.28	238.58
1	72	426	4.88	-1.72	-1.24	4.41	1.71	768.87	-197.15	-25.07	596.80	369.62
1	72	427	1.48	-0.74	-0.44	1.18	0.76	778.26	199.57	364.32	613.50	261.15
1	72	428	0.52	-0.16	-6.36e-02	0.42	0.23	715.80	473.71	561.87	627.63	116.49
1	72	429	0.70	-3.58e-02	0.14	0.53	-0.31	651.12	552.76	580.93	622.94	-44.47
1	72	430	2.63	-0.13	0.45	2.05	-1.12	738.91	300.41	437.82	601.50	-203.40
1	72	431	2.66	0.40	2.33	0.72	0.79	735.01	-35.57	127.42	572.01	-314.69
1	72	432	5.64	-0.26	4.02	1.37	2.63	726.18	-74.96	8.03	643.19	-244.14
1	72	433	2.87	-2.81	-0.68	0.75	-2.75	434.89	-27.10	342.98	64.82	184.43

1	72	434	0.47	-1.57	-1.53	0.42	0.30	635.36	168.04	604.00	199.41	116.94
1	72	435	0.17	-1.34	-1.33	0.16	-0.13	712.18	231.89	710.23	233.84	-30.53
1	72	436	0.61	-1.85	-1.48	0.24	-0.88	675.77	135.54	597.06	214.25	-190.59
1	72	437	-1.44	-3.40	-2.68	-2.15	-0.94	443.89	-123.88	212.37	107.64	-279.01
1	72	438	5.73	-3.61	5.68	-3.56	0.67	21.91	-424.71	-267.00	-135.80	-213.46
1	72	439	3.31	-2.48	-1.09	1.92	2.47	205.77	-205.65	101.91	-101.78	-178.73
1	72	440	5.58	-4.37	5.52	-4.30	0.82	91.66	-231.04	-104.44	-34.94	157.57
1	72	441	-1.46	-3.79	-2.98	-2.27	1.11	376.15	13.59	263.81	125.93	167.66
1	72	442	0.54	-2.07	-1.79	0.27	0.80	559.62	205.95	547.95	217.62	63.16
1	72	443	0.13	-1.63	-1.63	0.13	-9.62e-03	566.87	199.38	545.61	220.64	-85.79
1	72	444	-1.76	-2.33	-2.09	-2.00	0.28	385.03	6.93	255.10	136.86	-179.57
1	72	445	5.12	-1.55	4.97	-1.40	0.99	-38.56	-259.68	-178.53	-119.72	-106.58
1	72	447	2.95	-3.41	-1.24	0.78	-3.02	206.12	-149.22	192.13	-135.23	69.10
1	72	448	1.76	-6.27	-1.57	-2.94	3.96	161.08	-148.40	159.03	-146.35	-25.11
1	72	449	8.05	2.52	5.28	5.29	2.77	182.45	15.91	56.15	142.22	71.28
1	72	450	2.55	-1.34	-1.34	2.54	0.11	906.32	-59.76	-46.35	892.91	113.03
1	72	451	2.37	-0.31	-0.30	2.35	-0.18	1321.33	-28.16	-20.32	1313.48	102.59
1	72	452	1.97	-4.13e-02	-3.80e-02	1.97	-8.15e-02	1578.27	-18.90	-15.38	1574.75	74.92
1	72	453	1.60	-3.67e-03	-2.56e-03	1.60	-4.21e-02	1737.95	-14.57	-13.34	1736.72	46.34
1	72	454	1.39	1.94e-03	2.13e-03	1.39	-1.65e-02	1819.90	-12.49	-12.30	1819.71	18.70
1	72	455	1.35	2.53e-03	2.57e-03	1.35	7.87e-03	1833.12	-12.18	-12.14	1833.09	-8.32
1	72	456	1.49	-2.26e-03	-1.46e-03	1.49	3.45e-02	1779.06	-13.57	-12.86	1778.35	-35.71
1	72	457	1.78	-4.04e-02	-3.73e-02	1.78	7.60e-02	1652.05	-17.13	-14.66	1649.57	-64.25
1	72	458	2.12	-0.33	-0.32	2.10	0.19	1437.49	-25.83	-19.83	1431.49	-93.48
1	72	459	2.21	-1.88	-1.86	2.19	0.27	1083.45	-62.41	-52.04	1073.08	-108.50
1	72	460	9.96	3.16	7.79	5.33	-3.17	513.33	47.60	79.30	481.63	-117.30
1	72	461	3.25	-2.32	-1.43	2.36	2.04	202.03	-151.05	185.78	-134.79	-74.00
1	72	462	1.80	-4.84	-1.61	-1.43	-3.32	155.93	-149.57	154.05	-147.69	23.87
1	72	463	11.49	3.91	6.76	8.63	-3.67	197.88	23.56	83.88	137.57	-82.92
1	72	464	3.04	-1.73	-1.71	3.02	-0.29	899.37	-63.45	-51.16	887.07	-108.09
1	72	465	1.84	-0.34	-0.33	1.82	0.18	1323.39	-28.34	-20.61	1315.66	-101.90
1	72	466	1.42	-5.31e-02	-4.80e-02	1.42	8.69e-02	1582.48	-18.93	-15.44	1578.98	-74.69
1	72	467	1.08	-7.56e-03	-5.64e-03	1.07	4.55e-02	1742.86	-14.58	-13.36	1741.65	-46.16
1	72	468	0.87	1.33e-03	1.68e-03	0.87	1.75e-02	1825.01	-12.51	-12.32	1824.83	-18.50
1	72	469	0.83	2.14e-03	2.25e-03	0.83	-9.29e-03	1838.13	-12.20	-12.16	1838.10	8.55
1	72	470	0.94	-5.64e-03	-4.00e-03	0.94	-3.93e-02	1783.70	-13.62	-12.90	1782.98	36.00
1	72	471	1.17	-5.37e-02	-4.75e-02	1.16	-8.72e-02	1655.87	-17.26	-14.76	1653.37	64.63
1	72	472	1.41	-0.38	-0.36	1.38	-0.22	1439.36	-26.42	-20.39	1433.33	93.81
1	72	473	2.08	-2.27	-2.26	2.08	-0.13	1075.85	-68.22	-58.26	1065.89	106.28
1	72	474	12.67	4.68	9.27	8.08	3.95	500.86	71.11	109.16	462.80	122.09
1	72	475	4.04	-5.37	8.90e-02	-1.42	4.64	203.10	-214.16	-213.91	202.85	10.29
1	72	476	14.67	-8.49	14.32	-8.14	2.83	596.91	-969.73	-969.71	596.89	-5.65
1	72	477	9.72	-11.88	7.56	-9.73	6.47	527.00	-758.83	-758.25	526.43	27.21
1	72	478	1.81	-1.79	-1.70	1.71	0.58	493.51	-1254.87	-1254.86	493.50	-4.36
1	72	479	3.32	-9.20	-4.96	-0.92	-5.92	183.99	-248.50	-243.27	178.76	-47.27
1	72	480	13.56	8.93	12.15	10.33	2.13	201.36	-934.94	-934.90	201.32	6.88
1	72	481	1.51	-2.74	0.98	-2.21	1.41	-41.63	-184.04	-131.46	-94.20	68.72
1	72	482	-0.83	-1.99	-1.97	-0.85	0.15	474.99	-57.20	466.67	-48.88	66.01
1	72	483	-0.36	-2.94	-2.94	-0.36	-1.36e-03	641.81	-42.96	641.76	-42.91	5.63
1	72	484	-0.30	-2.80	-2.78	-0.32	-0.24	536.40	-48.72	530.22	-42.54	-59.81
1	72	485	4.01	-2.13	-0.64	2.53	-2.63	195.94	-106.89	105.56	-16.52	-138.57
1	72	486	9.53	-14.39	3.78	-8.64	10.22	-267.51	-992.77	-960.69	-299.60	149.13
1	72	487	13.95	4.76	12.16	6.55	-3.64	57.36	-1264.33	-1262.54	55.57	-48.65
1	72	488	2.27	-2.56	0.99	-1.27	2.14	12.38	-287.28	-201.09	-73.81	135.64
1	72	489	-0.81	-1.98	-1.95	-0.84	0.19	488.25	-71.50	463.52	-46.77	115.03
1	72	490	-0.35	-2.94	-2.94	-0.35	2.52e-02	742.32	-45.17	738.57	-41.42	54.19
1	72	491	-0.50	-3.23	-3.23	-0.50	-9.07e-03	761.89	-42.99	761.59	-42.69	-15.46
1	72	492	-0.20	-2.89	-2.31	-0.78	-1.11	535.08	-65.31	525.08	-55.31	-76.84
1	72	493	1.82	0.43	0.57	1.69	-0.41	187.83	-57.34	180.06	-49.57	42.96
1	72	494	-0.23	-3.02	-2.76	-0.49	0.82	642.88	-56.07	638.11	-51.30	57.51
1	72	495	-0.46	-3.37	-3.37	-0.46	-1.30e-02	769.08	-42.74	768.91	-42.58	-11.57
1	72	496	-0.31	-2.42	-2.36	-0.37	-0.35	653.18	-50.84	643.83	-41.49	-80.60
1	72	497	5.01	-0.95	1.52	2.54	-2.93	320.77	-95.93	240.39	-15.55	-164.42
1	72	498	10.81	-13.50	6.36	-9.04	9.40	-285.04	-714.54	-698.45	-301.13	81.56
1	72	499	2.93	1.72	2.22	2.43	0.59	-18.71	-96.82	-91.96	-23.57	-18.87
1	72	500	7.72	-14.98	3.93	-11.18	-8.47	-296.11	-523.71	-483.73	-336.08	-86.61
1	72	501	4.68	-0.70	1.02	2.96	2.51	341.21	-45.95	303.86	-8.60	114.30
1	72	502	-0.18	-2.69	-2.64	-0.23	0.34	594.38	-42.81	593.07	-41.50	28.80
1	72	503	-0.35	-3.41	-3.41	-0.35	-0.14	592.44	-45.32	590.17	-43.05	-37.99
1	72	504	3.13	-2.90	-1.83	2.06	-2.30	323.52	-65.06	281.82	-23.36	-120.27
1	72	505	6.40	-11.68	1.57	-6.85	8.00	-243.44	-627.77	-605.19	-266.03	90.38
1	72	506	0.17	-3.61	-1.32	-2.12	-1.85	-94.94	-188.40	-124.24	-159.09	-43.36
1	72	507	0.73	-3.98	-2.69	-0.55	2.10	-89.37	-190.67	-148.12	-131.92	50.00
1	72	508	-0.32	-3.47	-3.47	-0.32	-5.20e-04	641.74	-43.01	641.70	-42.97	-5.39
1	72	509	-0.75	-2.42	-2.40	-0.77	-0.17	473.35	-56.85	465.26	-48.77	-64.98
1	72	510	-9.76e-02	-3.41	-3.40	-0.11	0.24	534.80	-47.76	528.70	-41.66	59.29

1	72	511	4.35	-1.47	0.34	2.54	2.69	190.50	-101.60	102.40	-13.51	134.06
1	72	512	10.04	-15.26	3.37	-8.59	-11.15	-280.10	-996.55	-959.17	-317.47	-159.32
1	72	513	15.10	-9.96	14.53	-9.38	-3.75	614.15	-961.87	-961.86	614.14	4.82
1	72	514	14.30	4.93	11.38	7.85	4.34	47.22	-1267.38	-1265.53	45.37	49.30
1	72	515	3.21	-2.33	2.28	-1.41	-2.07	10.56	-283.07	-201.10	-71.42	-131.72
1	72	516	-0.64	-2.28	-2.25	-0.67	-0.21	485.54	-70.58	461.12	-46.16	-113.94
1	72	517	-0.31	-3.21	-3.21	-0.31	-2.52e-02	742.07	-45.15	738.33	-41.42	-54.11
1	72	518	-0.40	-3.47	-3.47	-0.40	7.94e-04	762.28	-42.50	761.98	-42.20	15.59
1	72	519	-0.15	-2.92	-2.49	-0.58	1.01	540.52	-61.68	530.09	-51.25	78.55
1	72	520	2.28	-1.51	-0.51	1.29	-1.67	-45.13	-92.21	-90.47	-46.87	8.89
1	72	521	1.13	-1.79	-1.27	0.61	1.12	194.98	-77.29	188.98	-71.29	-39.96
1	72	522	3.26	-10.18	-5.98	-0.93	6.23	185.95	-249.24	-244.79	181.49	43.83
1	72	523	-0.11	-3.18	-2.94	-0.35	-0.83	649.64	-52.86	644.86	-48.08	-57.76
1	72	524	-0.34	-3.95	-3.95	-0.34	1.33e-02	772.73	-42.33	772.54	-42.14	12.51
1	72	525	-0.14	-3.33	-3.31	-0.16	0.28	655.85	-50.35	646.31	-40.81	81.51
1	72	526	5.21	-0.98	1.88	2.36	3.09	317.88	-93.46	239.58	-15.16	161.49
1	72	527	11.05	-14.24	6.13	-9.33	-10.01	-293.63	-721.55	-703.45	-311.73	-86.13
1	72	528	1.56	-1.27	-1.22	1.51	-0.38	499.72	-1259.75	-1259.72	499.69	7.46
1	72	529	3.69	-6.23	-1.22	-1.32	-4.96	207.11	-213.33	-213.11	206.90	-9.46
1	72	530	8.24	-14.90	4.32	-10.98	8.68	-297.95	-532.39	-493.46	-336.89	87.25
1	72	531	4.67	-1.06	0.93	2.67	-2.73	338.70	-47.10	302.82	-11.22	-112.05
1	72	532	-4.41e-02	-3.87	-3.85	-6.07e-02	-0.25	597.65	-42.63	596.24	-41.22	-30.04
1	72	533	-0.14	-4.29	-4.29	-0.15	0.15	594.40	-44.42	592.32	-42.34	36.43
1	72	534	3.33	-2.53	-1.32	2.12	2.37	322.71	-59.97	283.04	-20.30	116.65
1	72	535	6.41	-12.99	0.67	-7.25	-8.86	-258.45	-631.82	-603.47	-286.80	-98.91
1	72	536	10.29	-13.46	7.66	-10.83	-7.46	544.27	-756.97	-756.43	543.73	-26.60
1	72	537	14.23	9.70	12.16	11.77	-2.26	198.62	-939.09	-938.80	198.34	-18.02
1	72	538	2.31	-2.91	1.89	-2.49	-1.42	-44.21	-180.77	-130.88	-94.09	-65.76
1	72	539	3.77e-02	-3.37	-2.41	-0.92	1.53	-104.67	-178.32	-143.04	-139.96	36.79
1	72	540	1.20	-4.19	-3.63	0.64	-1.65	-89.46	-187.23	-164.67	-112.03	-41.19

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		-38.52	-29.58	-32.90	-18.05		-3599.99	-3584.05	-1892.65	-598.71
	43.87		42.87	22.02	16.07	2821.99		1146.43	2821.99	662.53

40. VERIFICHE ELEMENTI TRAVE E/O PILASTRO IN C.A.

40.1. LEGENDA TABELLA VERIFICHE ELEMENTI TRAVE E/O PILASTRO IN C.A.

In tabella vengono riportati per ogni elemento il numero identificativo ed il codice di verifica con le sigle **Ok** o **NV**.

Nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite (**S.L.**) vengono riportati: il rapporto x/d, le verifiche per sollecitazioni proporzionali e la verifica per compressione media con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

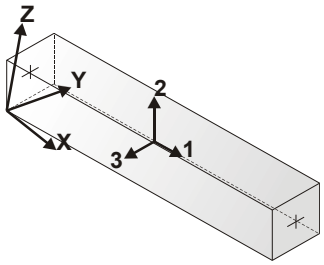
Nel caso in cui si sia proceduto alla progettazione con le tensioni ammissibili (**T.A.**) vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima compressione media nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale) con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

Nel caso in cui la struttura abbia comportamento dissipativo e sia prevista la progettazione con il criterio della gerarchia delle resistenze **(G.R.)** vengono riportate le verifiche di sovraresistenza e del nodo.

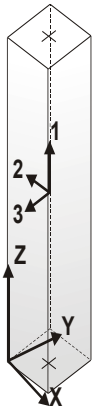
Per gli elementi tipo pilastro sono riportati numero e diametro dei ferri di vertice, numero e diametro di ferri disposti lungo i lati L1 (paralleli alla base della sezione) e lungo i lati L2 (paralleli all'altezza della sezione).

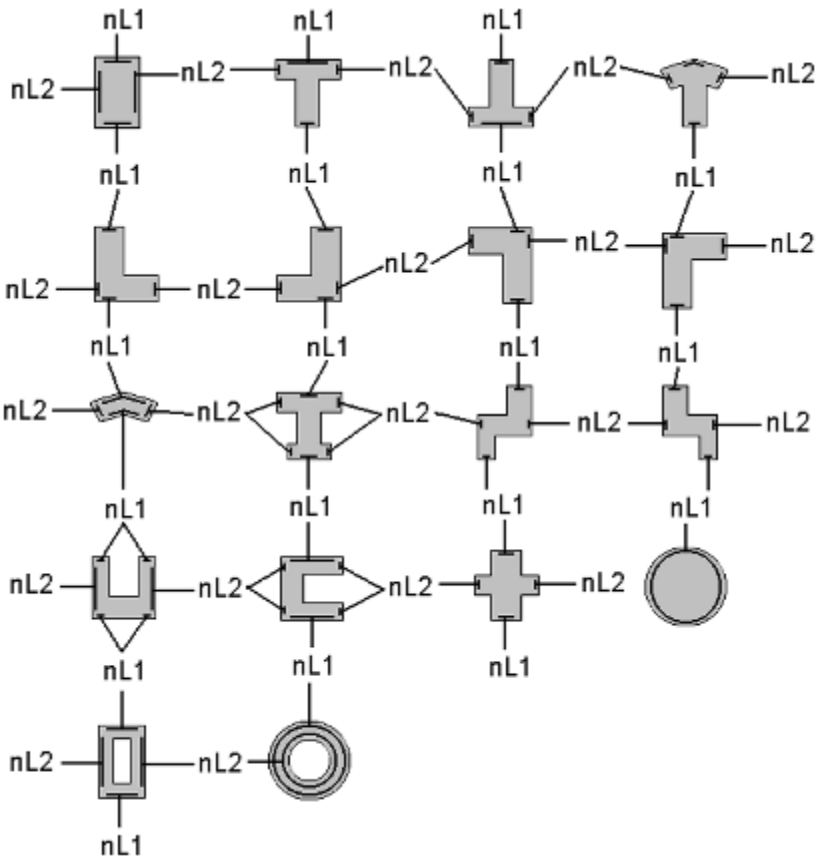
Per gli elementi tipo trave sono riportati infine le quantità di armatura inferiore e superiore.

Schema della distribuzione delle armature longitudinali



Orientamento elementi 2D non verticali





Orientamento elementi 2D verticali

40.2. PROGETTAZIONE DELLE FONDAZIONI

Il D.M.17/01/2018 - par: 7.2.5 prevede:

"Sia per CD"A" sia per CD"B" il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:

- quella derivante dall'analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;
- […];
- quella trasferita dagli elementi soprastanti nell'ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD"A" e 1,10 in CD"B";

Nel contesto visualizzazione risultati e nella stampa della relazione sulle fondazioni PRO_SAP mostra le sollecitazioni che derivano dall'analisi non incrementate sia in termini di pressioni sul terreno che in termini di sollecitazioni.

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO_SAP (per travi e platee) o da PRO_CAD Plinti (per plinti e pali di fondazione) incrementando le sollecitazioni delle combinazioni con sisma di un coefficiente pari 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l'incremento delle sollecitazioni ha un fattore pari a 1.2 in CDB e 1.35 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

N.B.: nel caso di comportamento strutturale non dissipativo le verifiche geotecniche vengono effettuate senza nessun incremento.

Simbologia adottata nelle tabelle di verifica

Per le verifiche agli S.L. dei pilastri è presente una tabella con i simboli di seguito descritti:

M_P X Y	Numero della pilastrata (P) e posizione in pianta (X,Y)
Pilas.	numero identificativo dell'elemento D2
Note	Codici identificativi delle sezione (s) e materiale (m) pilastro
Stato	Codici relativi all'esito delle verifiche effettuate appresso descritte
Quota	Quota sezione di verifica
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
r. snell.	Rapporto di snellezza λ su λ^*: valore superiore a 1 per elementi snelli nel caso in cui viene effettuata la verifica con il metodo diretto dello stato di equilibrio
Armat. long.	Numero e diametro (d) dei ferri di armatura longitudinale distinti in ferri di vertice + ferri di lato nelle posizioni nL1 e nL2, come da schemi in figura precedente

V N/M	Verifica a pressoflessione con rapporto Ed/Rd: valore minore o uguale a 1 per verifica positiva
V N sis	Verifica a compressione solo calcestruzzo con rapporto Nsd/Nrd ed Nrd calcolato come al punto 7.4.4.2.1: valore minore o uguale a 1 per verifica positiva
Staffe	Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls	Verifica a taglio/torsione con rapporto Ved/Vrd: valore minore o uguale a 1 per verifica positiva
Rif. cmb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il pilastro

Per le verifiche alla G.R. dei pilastri è presente una tabella con i simboli di seguito descritti:

Pilas.	numero identificativo dell'elemento D2 pilastro
sovr. Xi (Xf)	Verifica sovraresistenza come da formula 7.4.4 in direzione X, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato
sovr. Yi (Yf)	Verifica sovraresistenza come da formula 7.4.4 in direzione Y, alla base (i) ed alla sommità (f): rapporto tra i momenti resistenti dei pilastri e delle travi. La verifica è positiva se maggiore del γ_{Rd} adottato
M 2-2 i (f)	Valore del momento resistente 2-2 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
M 3-3 i (f)	Valore del momento resistente 3-3 alla base (i) ed alla sommità (f) con massimo momento in presenza dello sforzo normale di calcolo
Luce per V	Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M2-2 (M3-3)	Valore del taglio generato dai momenti resistenti 2-2 (3-3)

Per le verifiche dei dettagli costruttivi per la duttilità è presente una tabella con i simboli di seguito descritti:

(Non presente nel caso di comportamento strutturale non dissipativo)

Pilas	Numero identificativo D2 pilastro
ni	Sforzo assiale adimensionalizzato di progetto relativo alla combinazione sismica SLV
alfaomega	Prodotto tra il coefficiente di efficacia del confinamento e il rapporto meccanico dell'armatura trasversale di confinamento all'interno del nodo
V.7.4.29 2-2 (3-3)	Rapporto tra la domanda di staffe minima nel nodo e il rapporto meccanico dell'armatura trasversale di confinamento inserito all'interno del nodo in direzione 2 (3)
V. 7.4.29 Stato	Codici relativi all'esito della verifica 7.4.29
dmu_fi 2-2 (3-3)	Domanda in duttilità di curvatura in direzione 2 (3)

cmu_fi 2-2 (3-3)	Capacità in duttilità di curvatura in direzione 2 (3)
V. dutt. 2-2 (3-3)	Rapporto tra la domanda in duttilità di curvatura e la capacità in duttilità di curvatura in direzione 2 (3)

Per le verifiche nodi trave-pilastro di elementi nuovi è presente una tabella con i simboli di seguito descritti:

Nodo	Numero identificativo del nodo trave-pilastro
Stato	Esito delle verifiche
Pilastro	Numero identificativo D2 pilastro
Diam st	Diametro staffe nodo
Passo	Passo staffe nodo
n. br. 2 (3)	Numero braccia staffe per il taglio in direzione 2 (3)
Bj2 (3)	Larghezza effettiva del nodo per il taglio in direzione 2 (3)
Hjc2 (3)	Distanza tra le giaciture più esterne delle armature del pilastro per il taglio in direzione 2 (3)
V. 7.4.8	Rapporto tra il taglio Vjbd e il taglio resistente come da formula 7.4.8
V. Ash	Rapporto tra il passo staffe calcolato secondo il capitolo 7.4.4.3.1. e il passo staffe effattivamente inserita nel nodo. Nel caso di valore indica passo staffe utilizzato deriva dalle formule presenti nel paragrafo 7.4.4.3.1. Nel caso di valore minore di 1 il passo staffe utilizzato deriva del pilastro superiore o inferiore al nodo
7.4.10	Check passo staffe valutato in funzione della formula 7.4.10: • SI il passo staffe è calcolato utilizzando la formula 7.4.10; • NO il passo staffe è calcolato utilizzando le formule 7.4.11 e/o 7.4.12; • NR calcolo passo staffe non richiesto;
Rif. comb.	Riferimento combinazioni da cui si generano le verifiche più gravose per il nodo

Per le verifiche nodi trave-pilastro di elementi esistenti è presente una tabella con i simboli di seguito descritti:

Pilastro I	Numero identificativo D2 del pilastro inferiore.
Pilastro S	Numero identificativo D2 del pilastro superiore.
Nodo	Numero identificativo del nodo trave-pilastro.
SL cod	Stato limite di riferimento e relativo esito delle verifiche.
ver. (+)	Fattore di sicurezza nei riguardi della verifica di resistenza a compressione (verificato se < 1.00).
V +	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a compressione.

V + af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella verifica di resistenza a compressione.
N +	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a compressione.
ver. (-)	Fattore di sicurezza nei riguardi della verifica di resistenza a trazione (verificato se < 1.00).
V -	Azione di Taglio presente al di sopra del nodo nella verifica di resistenza a trazione.
V - af s	Sollecitazione di trazione presente nell' armatura longitudinale superiore della trave nella verifica di resistenza a trazione.
N -	Azione Assiale presente al di sopra del nodo nella verifica di resistenza a trazione.
AreaV2	Area resistente del nodo in direzione 2 ($A_{j2}=b_{j2}*h_{jc2}$).
AreaV3	Area resistente del nodo in direzione 3 ($A_{j3}=b_{j3}*h_{jc3}$).
Rif. comb.	Combinazione (direzione) di riferimento nella verifica di trazione.

Per le verifiche agli S.L. delle travi è presente una tabella con i simboli di seguito descritti:

M_T Z P P	Numero della travata (T), quota media (Z), n° pilastrata iniziale (P) e finale (P) (nodo in assenza di pilastrata)
Trave	numero identificativo dell'elemento D2
Note	Codici identificativi sezione (s) e materiale (m) trave; sono inoltre presenti le sigle relative all'esito delle verifiche effettuate appresso descritte
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
Af inf.	Area di armatura longitudinale posta all'intradosso
Af sup	Area di armatura longitudinale posta all'estradosso
Af long.	Area complessiva armatura longitudinale
x/d	rapporto tra posizione dell'asse neutro e altezza utile
V N/M	Verifica a pressoflessione rapporto Ed/Rd: valore minore o uguale a 1 per verifica positiva
Staffe	Dati tratto di staffatura oggetto di verifica, nello specifico: numero delle braccia, diametro, passo, lunghezza L tratto
V V/T cls	Verifica a taglio/torsione con rapporto Ved/Vrd: valore minore o uguale a 1 per verifica positiva
Rif. cmb.	Riferimento combinazioni da cui si generano le verifiche più gravose per la trave

Per le verifiche alla G.R. delle travi è presente una tabella con i simboli di seguito descritti:

Trave	numero identificativo dell'elemento D2 trave

M negativo i (f)	Valore del momento resistente negativo all' estremità iniziale i (finale f) della trave
M positivo i (f)	Valore del momento resistente positivo all' estremità iniziale i (finale f) della trave
Luce per V	Luce di calcolo per la definizione del taglio (generato dai momenti resistenti)
V M-i M+f	Taglio generato dai momenti resistenti negativo i e positivo f
V M+i M-f	Taglio generato dai momenti resistenti positivo i e negativo f
VEd, min	Valore di taglio minimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
VEd, max	Valore di taglio massimo per verifica condizioni p.to 7.4.4.1.1 armatura diagonale (solo per CD "A")
Vr1	Valore di taglio come da formula 7.4.1 per armatura diagonale (solo per CD "A")
As	Area singolo ordine armature diagonali come da formula 7.4.2 (solo per CD "A")

Per le verifiche a taglio ciclico di travi e pilastri esistenti è presente una tabella con i simboli di seguito descritti:

Trave/Pilastro	Numero identificativo dell'elemento D2 trave/pilastro
V. SLV	Codice relativo all'esito delle verifiche
Nodo	Numero identificativo del nodo di verifica
Ver. VC	Fattore di sicurezza nei confronti della verifica a taglio ciclico (verificato se < 1.00)
Direz.	Direzione di verifica
N fr	Valore di sforzo normale calcolato con fattore di comportamento fragile
V fr	Valore di taglio calcolato con fattore di comportamento fragile
M fr	Valore di momento calcolato con fattore di comportamento fragile
N dutt	Valore di sforzo normale calcolato con fattore di comportamento duttile
LV	Lunghezza di taglio
Mud,pl	Parte plastica della domanda di duttilità
V cic	Resistenza a taglio in condizioni cicliche (C8.7.2.8)
Cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

Per le verifiche alle T.A. di pilastri e travi è presente una tabella con i simboli di seguito descritti:

M_P X Y	Numero della pilastrata (P) e posizione in pianta (X,Y)

M_T Z P P	Numero della travata, quota media pilastrata iniziale e finale (nodo in assenza di pilastrata)
Pilas. o Trave	numero identificativo dell'elemento D2
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m); nella terza riga viene riportato il valore delle snellezze in direzione 2-2 e 3-3
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Quota	Ascissa del punto di verifica
%Af	Percentuale di area di armatura rispetto a quella di calcestruzzo
Armat. long.	Numero e diametro dei ferri di armatura longitudinale: ferri di vertice + ferri di lato (come da fig. precedente)
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup	Area di armatura longitudinale posta all'estradosso della trave
Sc max	Massima tensione di compressione del calcestruzzo
Sc med	Massima tensione media di compressione del calcestruzzo
Sf max	Tensione massima nell'acciaio
staffe	Vengono riportati i dati del tratto di staffatura in cui cade la sezione di verifica; in particolare: numero dei bracci, diametro, passo, lunghezza tratto
Tau max	Tensione massima tangenziale nel cls
Rif. comb	Combinazioni in cui si generano i seguenti valori di tensione: Sc max, Sc med, Sf max, Tau max
AfV	area dell'armatura atta ad assorbire le azioni di taglio
AfT	area dell'armatura atta ad assorbire le azioni di torsione
Scorr. P	Scorrimento dei piegati
Af long.	Area del ferro longitudinale aggiuntivo per assorbire la torsione

Con riferimento al **Documento di Affidabilità** "*Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST*" - versione Maggio 2011, disponibile per il download sul sito **www.2si.it**, si segnalano i seguenti esempi applicativi:

Test N°	Titolo
24	TENSIONI E ROTAZIONI RISPETTO ALLA CORDA DI ELEMENTI TRAVE
27	FRECCIA DI ELEMENTI TRAVE

41	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
42	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
43	VERIFICA ALLE TA DI STRUTTURE IN C.A.
44	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
46	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
47	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
49	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
50	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
52	SOVRARESISTENZE
53	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
68	VALUTAZIONE EFFETTO P-δ SU PILASTRATA
69	VALUTAZIONE EFFETTO P-δ SU TELAIO 3D
120	PROGETTO E VERIFICA DI TRAVI PREM

					M_P= 1	**X=0.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota cm	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe L=cm	V V/T cls	V V/T acc	Rif. cmb
1	s=1,m=5	ok,ok	0.0	1.79	0.24	4d16 2+2 d16	0.08	0.03	3+3d8/12 L=50	0.32	0.24	30,12,18,15
			150.0	1.79	0.24	4d16 2+2 d16	0.14	0.03	3+3d8/15 L=200	0.32	0.29	2,12,18,15
	[b=1.0;1.0]		300.0	1.79	0.24	4d16 2+2 d16	0.31	0.03	3+3d8/12 L=50	0.32	0.24	2,12,18,15
					M_P= 2	**X=345.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
4	s=1,m=5	ok,ok	0.0	1.79	0.34	4d16 2+2 d16	0.15	0.06	3+3d8/12 L=50	0.34	0.25	30,30,8,24
			150.0	1.79	0.34	4d16 2+2 d16	0.21	0.06	3+3d8/15 L=200	0.34	0.30	2,30,8,24
	[b=1.0;1.0]		300.0	1.79	0.34	4d16 2+2 d16	0.53	0.05	3+3d8/12 L=50	0.34	0.25	2,30,8,24
					M_P= 3	**X=690.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
10	s=1,m=5	ok,ok	0.0	1.79	0.32	4d16 2+2 d16	0.13	0.05	3+3d8/12 L=50	0.33	0.25	24,22,14,26
			150.0	1.79	0.32	4d16 2+2 d16	0.20	0.05	3+3d8/15 L=200	0.34	0.30	2,22,14,26
	[b=1.0;1.0]		300.0	1.79	0.32	4d16 2+2 d16	0.50	0.05	3+3d8/12 L=50	0.34	0.25	2,22,14,26
					M_P= 4	**X=1035.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
15	s=1,m=5	ok,ok	0.0	1.79	0.34	4d16 2+2 d16	0.15	0.06	3+3d8/12 L=50	0.34	0.25	24,24,10,31
			150.0	1.79	0.34	4d16 2+2 d16	0.21	0.06	3+3d8/15 L=200	0.34	0.30	2,24,10,31
	[b=1.0;1.0]		300.0	1.79	0.34	4d16 2+2 d16	0.53	0.05	3+3d8/12 L=50	0.34	0.25	2,24,10,31
					M_P= 5	**X=1380.0**	**Y=0.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
20	s=1,m=5	ok,ok	0.0	1.79	0.24	4d16 2+2 d16	0.08	0.03	3+3d8/12 L=50	0.32	0.24	24,6,16,17
			150.0	1.79	0.24	4d16 2+2 d16	0.14	0.03	3+3d8/15 L=200	0.32	0.29	2,6,16,17
	[b=1.0;1.0]		300.0	1.79	0.24	4d16 2+2 d16	0.31	0.03	3+3d8/12 L=50	0.32	0.24	2,6,16,17
					M_P= 6	**X=0.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb

2	s=1,m=5	ok,ok	0.0	1.79	0.24	4d16 2+2 d16	0.08	0.03	3+3d8/12 L=50	0.32	0.24	33,19,9,8
			150.0	1.79	0.24	4d16 2+2 d16	0.14	0.03	3+3d8/15 L=200	0.32	0.29	2,19,9,8
	[b=1.0;1.0]		300.0	1.79	0.24	4d16 2+2 d16	0.31	0.03	3+3d8/12 L=50	0.32	0.24	2,19,9,8
					M_P= 7	**X=345.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
6	s=1,m=5	ok,ok	0.0	1.79	0.34	4d16 2+2 d16	0.15	0.06	3+3d8/12 L=50	0.34	0.25	
33,33,15,27												
			150.0	1.79	0.34	4d16 2+2 d16	0.21	0.06	3+3d8/15 L=200	0.34	0.30	2,33,15,27
	[b=1.0;1.0]		300.0	1.79	0.34	4d16 2+2 d16	0.53	0.05	3+3d8/12 L=50	0.34	0.25	2,33,15,27
					M_P= 8	**X=690.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
12	s=1,m=5	ok,ok	0.0	1.79	0.32	4d16 2+2 d16	0.13	0.05	3+3d8/12 L=50	0.33	0.25	27,29,5,21
			150.0	1.79	0.32	4d16 2+2 d16	0.20	0.05	3+3d8/15 L=200	0.34	0.30	2,29,5,21
	[b=1.0;1.0]		300.0	1.79	0.32	4d16 2+2 d16	0.50	0.05	3+3d8/12 L=50	0.34	0.25	2,29,5,21
					M_P= 9	**X=1035.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
17	s=1,m=5	ok,ok	0.0	1.79	0.34	4d16 2+2 d16	0.15	0.06	3+3d8/12 L=50	0.34	0.25	
27,27,17,36												
			150.0	1.79	0.34	4d16 2+2 d16	0.21	0.06	3+3d8/15 L=200	0.34	0.30	2,27,17,36
	[b=1.0;1.0]		300.0	1.79	0.34	4d16 2+2 d16	0.53	0.05	3+3d8/12 L=50	0.34	0.25	2,27,17,36
					M_P= 10	**X=1380.0**	**Y=630.0**					
Pilas.	Note	Stato	Quota	%Af	r. snell.	Armat. long.	V N/M	V N sis	Staffe	V V/T cls	V V/T acc	Rif. cmb
22	s=1,m=5	ok,ok	0.0	1.79	0.24	4d16 2+2 d16	0.08	0.03	3+3d8/12 L=50	0.32	0.24	27,13,7,10
			150.0	1.79	0.24	4d16 2+2 d16	0.14	0.03	3+3d8/15 L=200	0.32	0.29	2,13,7,10
	[b=1.0;1.0]		300.0	1.79	0.24	4d16 2+2 d16	0.31	0.03	3+3d8/12 L=50	0.32	0.24	2,13,7,10

Pilas.	**%Af**	**r. snell.**	**V N/M**	**V N sis**	**V V/T cls**	**V V/T acc**
	1.79	0.34	0.53	0.06	0.34	0.30

Pilas.	**sovr. Xi**	**sovr. Xf**	**sovr. Yi**	**sovr. Yf**	**M 2-2 i**	**M 2-2 f**	**M 3-3 i**	**M 3-3 f**	**Luce per V**	**V M2-2**	**V M3-3**
					daN cm	daN cm	daN cm	daN cm	cm	daN	daN
1	0.0	0.0	0.0	0.0	7.896e+05	7.823e+05	7.896e+05	7.823e+05	240.00	6579.90	6579.90
2	0.0	0.0	0.0	0.0	7.896e+05	7.823e+05	7.896e+05	7.823e+05	240.00	6579.91	6579.91
4	0.0	0.0	0.0	0.0	8.212e+05	8.140e+05	8.212e+05	8.140e+05	240.00	6843.29	6843.29
6	0.0	0.0	0.0	0.0	8.212e+05	8.140e+05	8.212e+05	8.140e+05	240.00	6843.27	6843.27
10	0.0	0.0	0.0	0.0	8.132e+05	8.060e+05	8.132e+05	8.060e+05	240.00	6776.63	6776.63
12	0.0	0.0	0.0	0.0	8.132e+05	8.060e+05	8.132e+05	8.060e+05	240.00	6776.59	6776.59
15	0.0	0.0	0.0	0.0	8.212e+05	8.141e+05	8.212e+05	8.141e+05	240.00	6843.53	6843.53
17	0.0	0.0	0.0	0.0	8.212e+05	8.141e+05	8.212e+05	8.141e+05	240.00	6843.57	6843.57
20	0.0	0.0	0.0	0.0	7.896e+05	7.823e+05	7.896e+05	7.823e+05	240.00	6579.86	6579.86
22	0.0	0.0	0.0	0.0	7.896e+05	7.823e+05	7.896e+05	7.823e+05	240.00	6579.77	6579.77

Pilas.	**M 2-2 i**	**M 2-2 f**	**M 3-3 i**	**M 3-3 f**	**V M2-2**	**V M3-3**
	8.212e+05	8.141e+05	8.212e+05	8.141e+05	6843.57	6843.57

Pilas.	**nid**	**alfaomega**	**V. 7.4.29 2-2**	**V. 7.4.29 3-3**	**V. 7.4.29 Stato**	**dmu_fi 2-2**	**dmu_fi 3-3**	**cmu_fi 2-2**	**cmu_fi 3-3**	**V. dut. 2-2**	**V. dut. 3-3**
1	0.02	0.08	0.0	0.0	ok	15.3	17.4	16.0	16.0	0.96	1.09
	0.02	0.08	0.0	0.0	ok			16.6	16.6	0.92	1.05
2	0.02	0.08	0.0	0.0	ok	15.3	17.4	16.0	16.0	0.96	1.09
	0.02	0.08	0.0	0.0	ok			16.6	16.6	0.92	1.05
4	0.04	0.08	0.08	0.15	ok	15.3	17.4	13.6	13.6	1.13	1.28
	0.03	0.08	0.03	0.09	ok			14.1	14.1	1.09	1.23
6	0.04	0.08	0.08	0.15	ok	15.3	17.4	13.6	13.6	1.13	1.28
	0.03	0.08	0.03	0.09	ok			14.1	14.1	1.09	1.23
10	0.03	0.08	0.02	0.08	ok	15.3	17.4	14.1	14.1	1.08	1.23
	0.03	0.08	0.0	0.02	ok			14.7	14.7	1.05	1.19
12	0.03	0.08	0.02	0.08	ok	15.3	17.4	14.1	14.1	1.08	1.23
	0.03	0.08	0.0	0.02	ok			14.7	14.7	1.05	1.19
15	0.04	0.08	0.08	0.15	ok	15.3	17.4	13.6	13.6	1.13	1.28
	0.03	0.08	0.03	0.09	ok			14.1	14.1	1.09	1.23
17	0.04	0.08	0.08	0.15	ok	15.3	17.4	13.6	13.6	1.13	1.28
	0.03	0.08	0.03	0.09	ok			14.1	14.1	1.09	1.23
20	0.02	0.08	0.0	0.0	ok	15.3	17.4	16.0	16.0	0.96	1.09
	0.02	0.08	0.0	0.0	ok			16.6	16.6	0.92	1.05
22	0.02	0.08	0.0	0.0	ok	15.3	17.4	16.0	16.0	0.96	1.09
	0.02	0.08	0.0	0.0	ok			16.6	16.6	0.92	1.05

2-2	**3-3**	**2-2**	**3-3**
0.08	0.15	1.13	1.28

Nodo	**Conf.**	**Stato**	**Pilas.**	**Diam st**	**Passo**	**n. br. 2**	**Bj2**	**Hjc2**	**n. br. 3**	**Bj3**	**Hjc3**	**V. 7.4.8**	**V. Ash**	**7.4.10**	**Rif.**

cmb

				mm	cm		cm	cm		cm	cm				
2	NO	ok	1	8	10.0	3	30.0	22.8	3	30.0	22.8	0.3	0.8	NO	5,9
4	NO	ok	2	8	10.0	3	30.0	22.8	3	30.0	22.8	0.3	0.8	NO	5,18
5	NO	ok	6	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
8	NO	ok	4	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
10	NO	ok	12	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
12	NO	ok	10	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
14	NO	ok	17	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
16	NO	ok	15	8	5.0	3	30.0	22.8	3	30.0	22.8	0.5	0.8	NO	5,5
18	NO	ok	22	8	10.0	3	30.0	22.8	3	30.0	22.8	0.3	0.8	NO	5,16
20	NO	ok	20	8	10.0	3	30.0	22.8	3	30.0	22.8	0.3	0.8	NO	5,7

Nodo	**Passo**	**V. 7.4.8**	**V. Ash**
	5.00		
		0.47	0.81

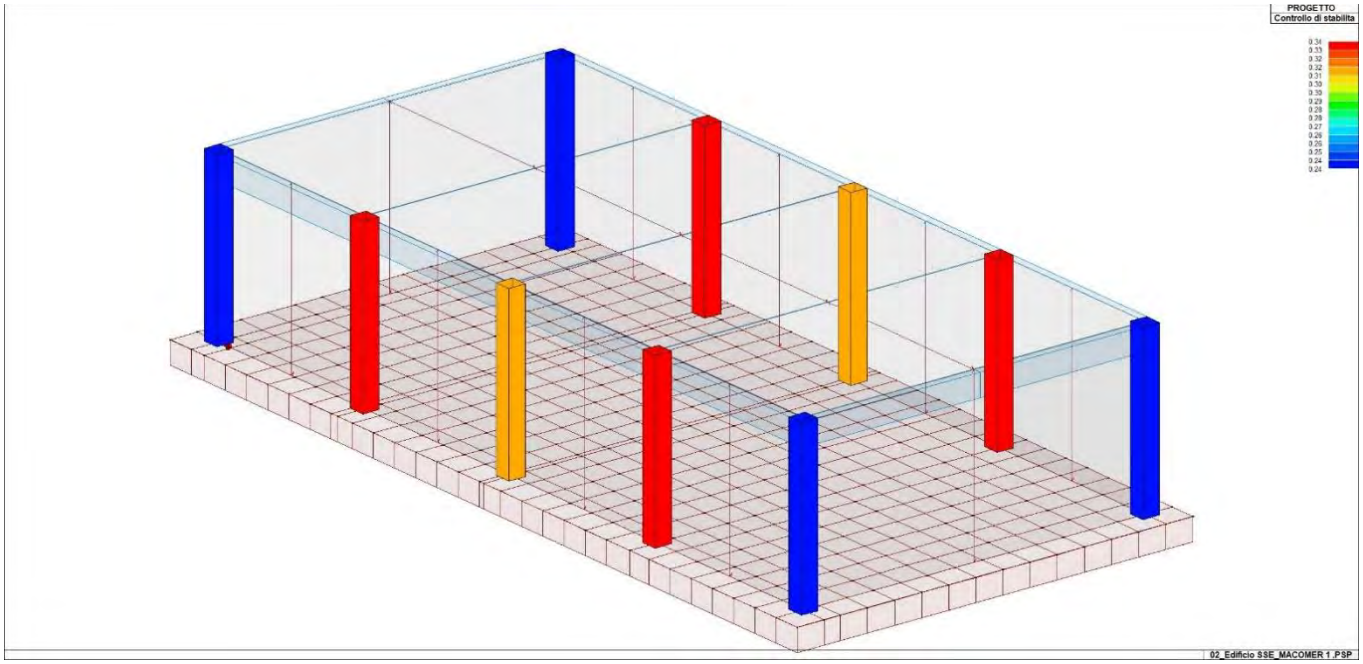
							M_T= 1	**Z=300.0**	**P=1**	**P=6**		
Trave	Note	Pos. cm	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe L=cm	Rif. cmb
3	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.29	0.14	0.10	2d8/8 L=50	2,20,36
	s=2,m=5	315.0	0.33	4.0	4.0	0.0	0.10	0.67	0.07	0.11	2d8/20 L=250	2,20,36
8	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.67	0.07	0.11	2d8/20 L=250	2,10,36
	s=2,m=5	315.0	0.33	4.0	4.0	0.0	0.10	0.29	0.14	0.10	2d8/8 L=50	2,10,36
							M_T= 2	**Z=300.0**	**P=6**	**P=10**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
5	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.09	0.23	0.10	2d8/8 L=50	15,22,36
	s=2,m=5	172.5	0.33	4.0	4.0	0.0	0.10	0.06	0.21	0.22	2d8/20 L=215	2,22,36
		345.0	0.33	4.0	4.0	0.0	0.10	0.10	0.23	0.10	2d8/8 L=50	17,22,36
11	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.11	0.15	0.10	2d8/8 L=50	15,23,36
	s=2,m=5	172.5	0.33	4.0	4.0	0.0	0.10	0.04	0.13	0.22	2d8/20 L=215	2,23,36
		345.0	0.33	4.0	4.0	0.0	0.10	0.11	0.15	0.10	2d8/8 L=50	14,23,36
16	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.11	0.15	0.10	2d8/8 L=50	20,29,36
	s=2,m=5	172.5	0.33	4.0	4.0	0.0	0.10	0.04	0.13	0.22	2d8/20 L=215	2,29,36
		345.0	0.33	4.0	4.0	0.0	0.10	0.11	0.15	0.10	2d8/8 L=50	17,29,36
21	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.10	0.23	0.10	2d8/8 L=50	15,32,36
	s=2,m=5	172.5	0.33	4.0	4.0	0.0	0.10	0.06	0.21	0.22	2d8/20 L=215	2,32,36
		345.0	0.33	4.0	4.0	0.0	0.10	0.09	0.23	0.10	2d8/8 L=50	17,32,36
							M_T= 3	**Z=300.0**	**P=2**	**P=7**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
7	ok,ok	0.0	0.50	6.0	4.0	0.0	0.10	0.83	0.24	0.19	2d8/8 L=50	2,2,2
	s=2,m=5	315.0	0.50	6.0	4.0	0.0	0.12	0.88	0.07	0.14	2d8/20 L=500	2,6,36
		630.0	0.50	6.0	4.0	0.0	0.10	0.83	0.24	0.19	2d8/8 L=50	2,2,2
							M_T= 4	**Z=300.0**	**P=1**	**P=5**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
9	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.09	0.23	0.10	2d8/8 L=50	11,25,36
	s=2,m=5	172.5	0.33	4.0	4.0	0.0	0.10	0.06	0.21	0.22	2d8/20 L=215	2,25,36
		345.0	0.33	4.0	4.0	0.0	0.10	0.10	0.23	0.10	2d8/8 L=50	10,25,36
14	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.11	0.15	0.10	2d8/8 L=50	8,28,36
	s=2,m=5	172.5	0.33	4.0	4.0	0.0	0.10	0.04	0.13	0.22	2d8/20 L=215	2,28,36
		345.0	0.33	4.0	4.0	0.0	0.10	0.11	0.15	0.10	2d8/8 L=50	5,28,36
19	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.11	0.15	0.10	2d8/8 L=50	11,34,36
	s=2,m=5	172.5	0.33	4.0	4.0	0.0	0.10	0.04	0.13	0.22	2d8/20 L=215	2,34,36
		345.0	0.33	4.0	4.0	0.0	0.10	0.11	0.15	0.10	2d8/8 L=50	10,34,36
24	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.10	0.23	0.10	2d8/8 L=50	8,35,36
	s=2,m=5	172.5	0.33	4.0	4.0	0.0	0.10	0.06	0.21	0.22	2d8/20 L=215	2,35,36
		345.0	0.33	4.0	4.0	0.0	0.10	0.09	0.23	0.10	2d8/8 L=50	10,35,36
							M_T= 5	**Z=300.0**	**P=3**	**P=8**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
13	ok,ok	0.0	0.50	6.0	4.0	0.0	0.10	0.64	0.20	0.16	2d8/8 L=50	2,2,2
	s=2,m=5	315.0	0.50	6.0	4.0	0.0	0.12	0.78	0.07	0.14	2d8/20 L=500	2,9,36
		630.0	0.50	6.0	4.0	0.0	0.10	0.64	0.20	0.16	2d8/8 L=50	2,2,2
							M_T= 6	**Z=300.0**	**P=4**	**P=9**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
18	ok,ok	0.0	0.50	6.0	4.0	0.0	0.10	0.83	0.24	0.19	2d8/8 L=50	2,2,2
	s=2,m=5	315.0	0.50	6.0	4.0	0.0	0.12	0.88	0.07	0.14	2d8/20 L=500	2,12,36
		630.0	0.50	6.0	4.0	0.0	0.10	0.83	0.24	0.19	2d8/8 L=50	2,2,2
							M_T= 7	**Z=300.0**	**P=5**	**P=10**		
Trave	Note	Pos.	%Af	Af inf.	Af. sup	Af long.	x/d	V N/M	V V/T cls	V V/T acc	Staffe	Rif. cmb
23	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.30	0.14	0.10	2d8/8 L=50	2,14,36
	s=2,m=5	315.0	0.33	4.0	4.0	0.0	0.10	0.67	0.07	0.11	2d8/20 L=250	2,14,36
25	ok,ok	0.0	0.33	4.0	4.0	0.0	0.10	0.67	0.07	0.11	2d8/20 L=250	2,8,36
	s=2,m=5	315.0	0.33	4.0	4.0	0.0	0.10	0.29	0.14	0.10	2d8/8 L=50	2,8,36

Trave	**%Af**	**Af inf.**	**Af. sup**	**Af long.**	**x/d**	**V N/M**	**V V/T cls**	**V V/T acc**

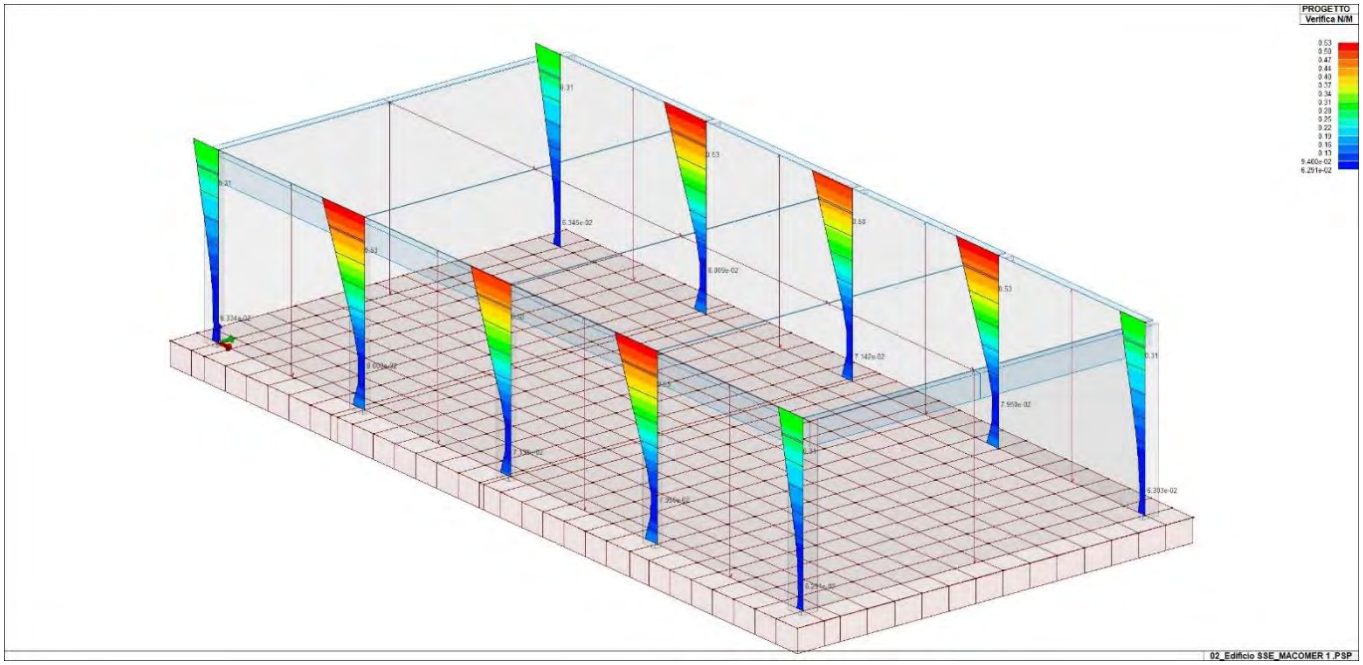
0.50	6.03	4.02	0.0	0.12	0.88	0.24	0.22	

Trave	M negativo i	M positivo i	M negativo f	M positivo f	Luce per V	V M-i M+f	V M+i M-f	VEd,min	VEd,max	Vr1	As
	daN cm	daN cm	daN cm	daN cm	cm	daN	daN	daN	daN	daN	cm2
3	5.505e+05	5.505e+05	5.505e+05	5.505e+05	599.98	1834.96	1834.96	0.0	0.0	0.0	0.0
5	5.505e+05	5.505e+05	5.505e+05	5.505e+05	315.00	3495.06	3495.06	0.0	0.0	0.0	0.0
7	5.505e+05	8.095e+05	5.505e+05	8.095e+05	599.98	2266.70	2266.70	0.0	0.0	0.0	0.0
8	5.505e+05	5.505e+05	5.505e+05	5.505e+05	599.98	1834.96	1834.96	0.0	0.0	0.0	0.0
9	5.505e+05	5.505e+05	5.505e+05	5.505e+05	315.00	3495.06	3495.06	0.0	0.0	0.0	0.0
11	5.505e+05	5.505e+05	5.505e+05	5.505e+05	315.00	3495.06	3495.06	0.0	0.0	0.0	0.0
13	5.505e+05	8.095e+05	5.505e+05	8.095e+05	599.98	2266.70	2266.70	0.0	0.0	0.0	0.0
14	5.505e+05	5.505e+05	5.505e+05	5.505e+05	315.00	3495.06	3495.06	0.0	0.0	0.0	0.0
16	5.505e+05	5.505e+05	5.505e+05	5.505e+05	315.00	3495.06	3495.06	0.0	0.0	0.0	0.0
18	5.505e+05	8.095e+05	5.505e+05	8.095e+05	599.98	2266.70	2266.70	0.0	0.0	0.0	0.0
19	5.505e+05	5.505e+05	5.505e+05	5.505e+05	315.00	3495.06	3495.06	0.0	0.0	0.0	0.0
21	5.505e+05	5.505e+05	5.505e+05	5.505e+05	315.00	3495.06	3495.06	0.0	0.0	0.0	0.0
23	5.505e+05	5.505e+05	5.505e+05	5.505e+05	599.98	1834.96	1834.96	0.0	0.0	0.0	0.0
24	5.505e+05	5.505e+05	5.505e+05	5.505e+05	315.00	3495.06	3495.06	0.0	0.0	0.0	0.0
25	5.505e+05	5.505e+05	5.505e+05	5.505e+05	599.98	1834.96	1834.96	0.0	0.0	0.0	0.0

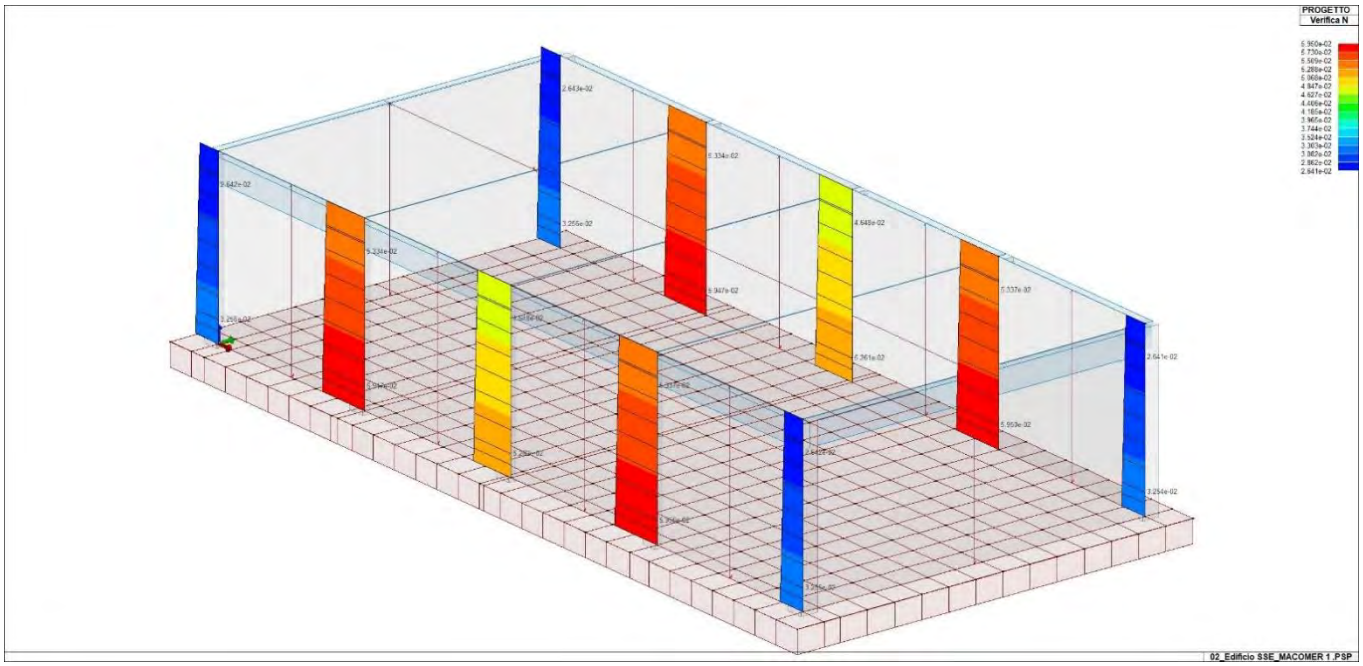
Trave	M negativo i	M positivo i	M negativo f	M positivo f		V M-i M+f	V M+i M-f	VEd,min	VEd,max	Vr1	As
								0.0			
	5.505e+05	8.095e+05	5.505e+05	8.095e+05		3495.06	3495.06		0.0	0.0	0.0



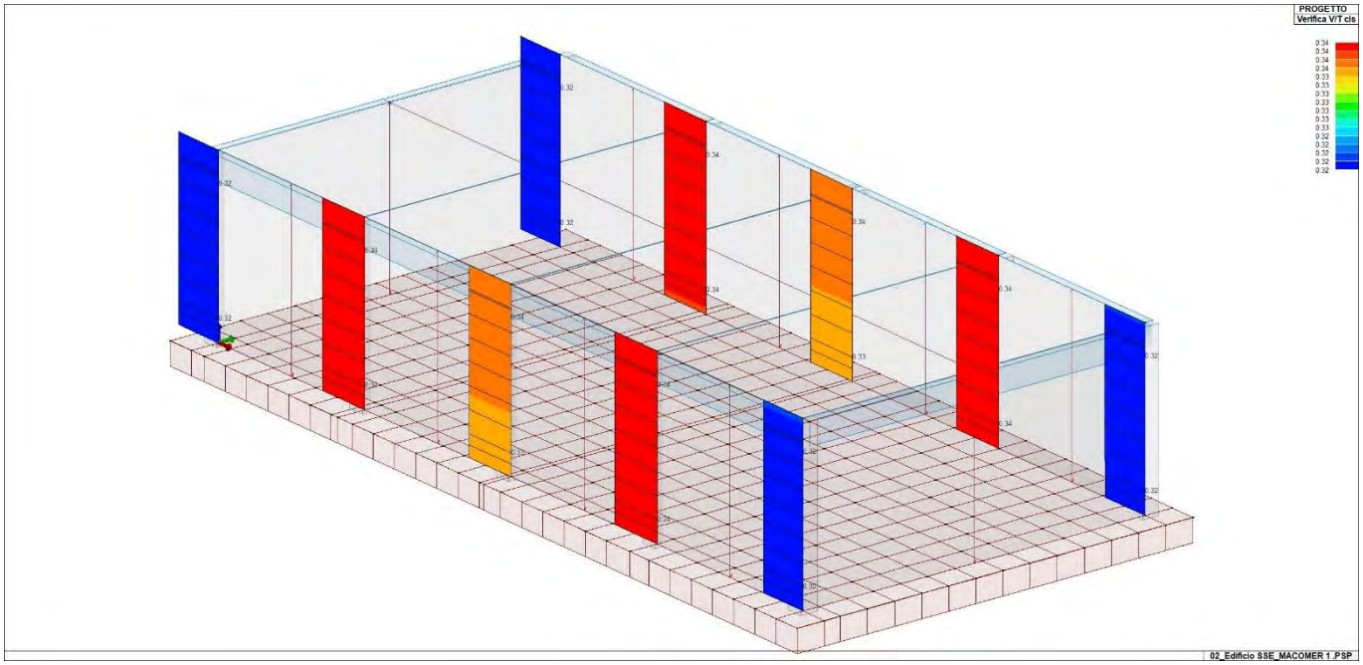
71_PRO_CA_PIL_STAB



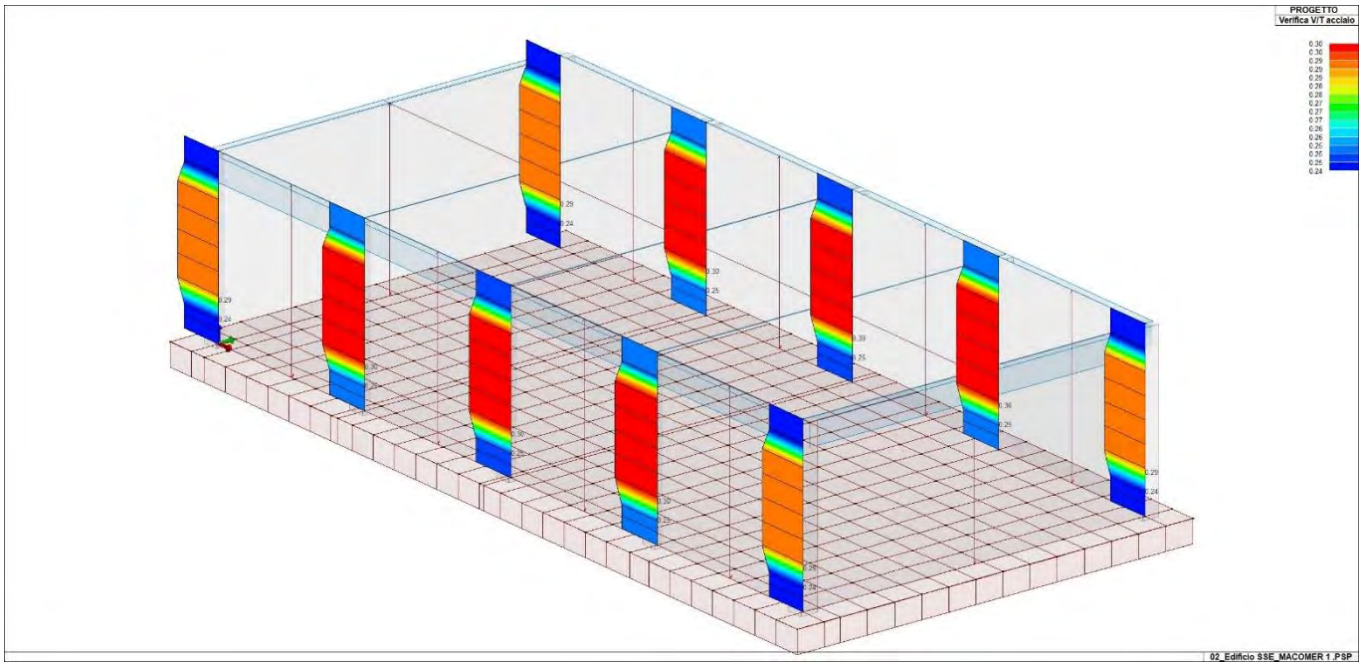
71_PRO_CA_PIL_VER_NM



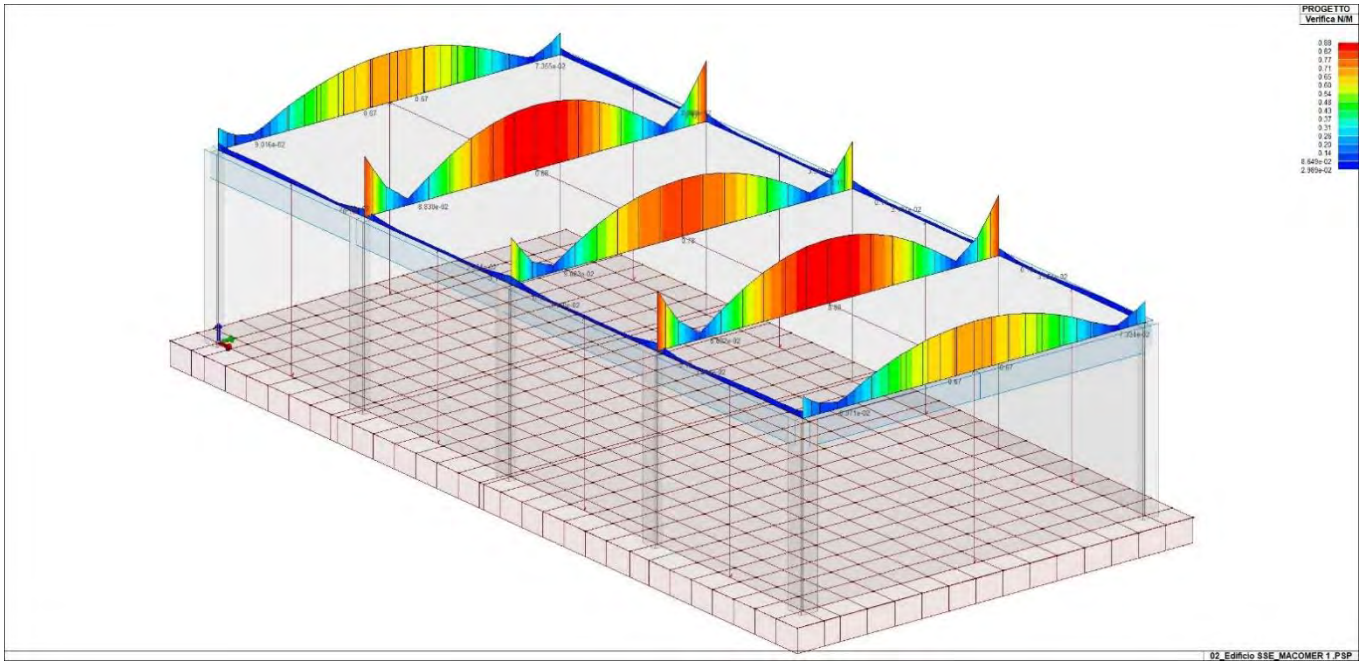
71_PRO_CA_PIL_VER_NSIS



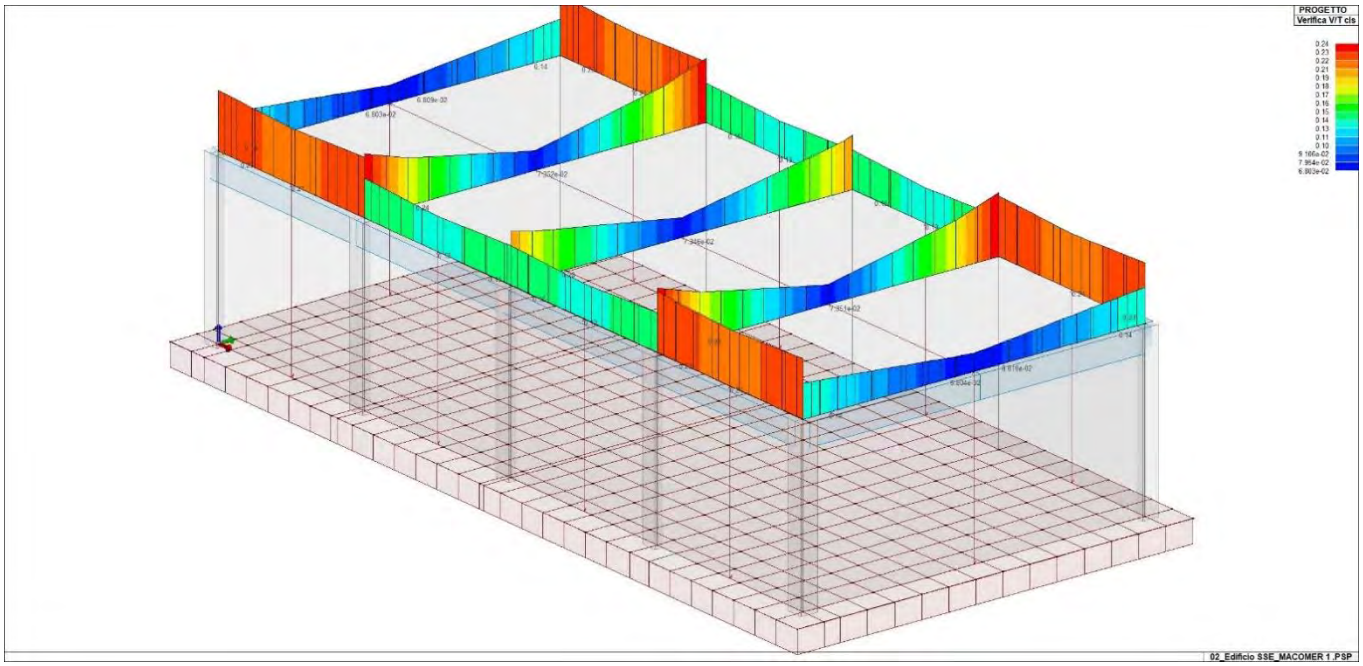
71_PRO_CA_PIL_VER_VRCD



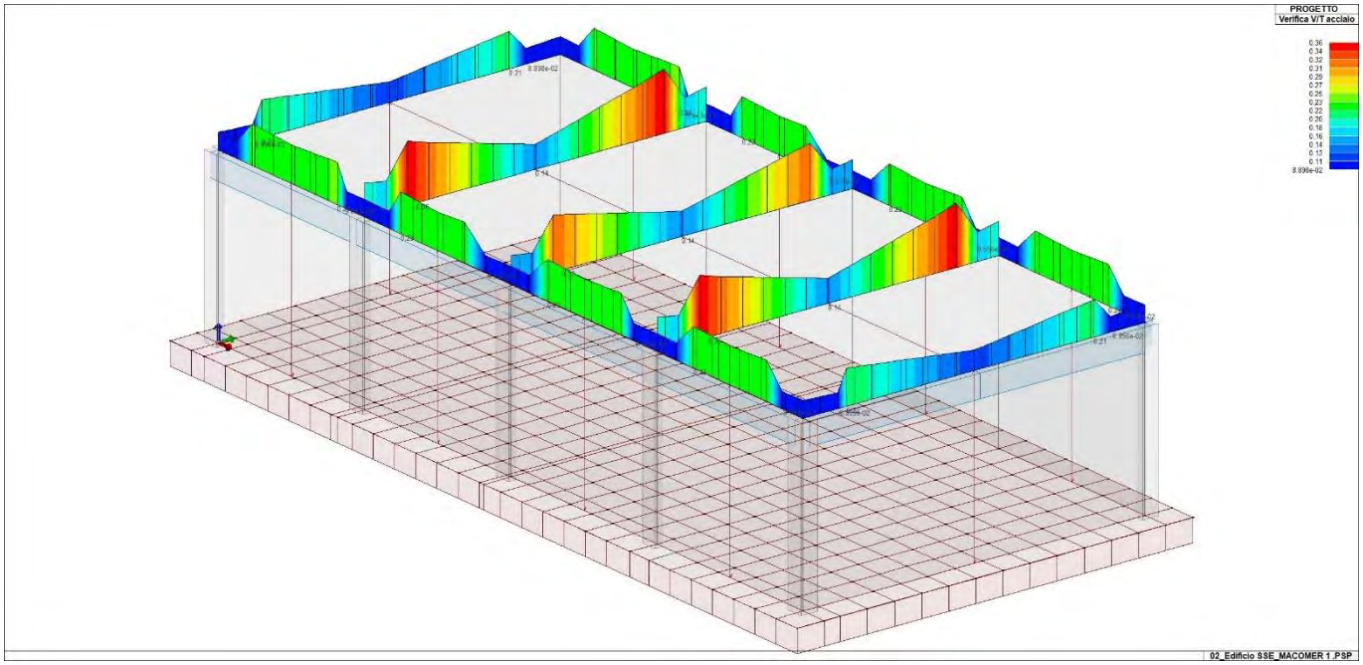
71_PRO_CA_PIL_VER_VRSD



71_PRO_CA_TRV_VER_NM



71_PRO_CA_TRV_VER_VRCD



71_PRO_CA_TRV_VER_VRSD

41. VERIFICHE ELEMENTI PARETE E/O GUSCIO IN C.A.

41.1. LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

Per le pareti in c.a., in ottemperanza al cap. 7 del DM 17-01-18, viene effettuata una doppia progettazione: sia come *Singolo Elemento* sia come *Parete Sismica* o *Parete Debolmente Armata.*

Per la progettazione come *Singolo Elemento* di ogni elemento vengono riportati il codice dello stato di verifica con le sigle **Ok e NV,** il rapporto x/d, la verifica per sollecitazioni ultime (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti), gli sforzi membranali e flessionali, il quantitativo di armatura nella direzione principale e secondaria sia inferiore che superiore e il quantitativo di armatura a taglio.

Per la progettazione come *Parete Sismica* o *Parete Debolmente Armata* vengono riportate invece le caratteristiche geometriche della parete e delle zone dissipative (quest'ultime solo nel caso di parete sismica), i coefficienti di verifica a compressione assiale, pressoflessione e sollecitazioni taglianti.

Inoltre vengono riportate per ogni quota significativa l'armatura principale e secondaria, l'armatura in zona confinata (solo per parete sismica) e non confinata, l'armatura concentrata all'estremità (per pareti debolmente armate), lo sforzo assiale aggiuntivo per q superiore a 2 e i valori di inviluppo di taglio e momento. Per le pareti debolmente armate viene riportato anche lo stato di verifica relativo alla snellezza.

Le azioni derivate dall'analisi, in ogni combinazione di calcolo, sono elaborate come previsto al punto 7.4.4.5.1: traslazione del momento, incremento e variazione diagramma taglio, incremento e decremento sforzo assiale

La progettazione nel caso dei gusci viene effettuata una progettazione come *Singolo Elemento,* riportando in tabella il rapporto x/d, la verifica per sollecitazioni ultime, (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti) di ogni elemento.

Per ogni elemento, viene riportata inoltre la maglia di armatura necessaria in relazione alle risultanze della progettazione dei nodi dell'elemento stesso. Le quantità di armature necessarie sono armature (disposte rispettivamente in direzione principale e secondaria, inferiore e superiore) distribuite nell'elemento ed espresse in centimetri quadri per sviluppo lineare pari ad un metro.

Nel caso dei gusci viene effettuata, inoltre, la verifica a punzonamento, riportando in tabella il codice dello stato di verifica, il coefficiente di verifica per piastre prive di armature a taglio lungo il perimetro resistente e lungo il perimetro del pilastro, coefficiente di incremento dovuto ai momenti flettenti, fattore di amplificazione per le fondazioni, il fattorei di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta, il quantitativo di armatura a punzonamento, il numero di serie di armature, il numero di braccia di armatura ed il riferimento alla combinazione più gravosa.

Simbologia adottata nelle tabelle di verifica

Per gli elementi con progettazione "*Singolo Elemento …*" è presente una tabella con i simboli di seguito descritti:

Macro Guscio	Numero del macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)
Macro Setto	Numero del macroelemento di tipo setto (elementi verticali contigui ed analoghi per

	proprietà)
Spessore	Spessore della parete
Id Materiale	Codice del materiale assegnato all'elemento
Id Criterio	Codice del criterio di progetto assegnato all'elemento
Progettazione	Sigla tipo di Elemento: - Singolo Elemento; - Singolo Elemento FONDAZIONE; - Singolo Elemento NON DISSIPATIVO

Per gli elementi con progettazione "*Parete Sismica o Parete Debolmente Armata*" è presente una tabella con i simboli di seguito descritti:

Parete	Numero della PARETE SISMICA
Parete PDA	Numero della PARETE DEBOLMENTE ARMATA
H totale	Altezza complessiva della parete
Spessore	Spessore della parete
H critica	Altezza come da punto 7.4.4.5.1 per traslazione momento (solo in Parete Sismica)
H critica V	Altezza della zona dissipativa (solo in Parete Sismica)
L totale	Larghezza di base della parete
L confinata	Lunghezza della zona dissipativa (solo in Parete Sismica)
Verif. N	Verifica di cui al punto 7.4.4.5.1 compressione semplice
Verif. N-M	Verifica di cui al punto 7.4.4.5.1 pressoflessione
Fattore V	Fattore di amplificazione del taglio di cui al punto 7.4.4.5.1
Diagramma V	Diagramma elaborato per effetto modi superiori come da fig. 7.4.4
Verif. V	Verifica di cui al punto 7.4.4.5.1 taglio (compressione cls, trazione acciaio, scorrimento in zona critica) (solo in Parete Sismica)
Verifica Snellezza	Verifica di cui al punto 7.4.4.5.1 limitazione compressione per prevenire l'instabilità (solo in Parete Debolmente Armata)
Prog. composta	Sigla per la progettazione composta

Per le verifiche degli elementi con progettazione "*Singolo Elemento …*" e *Progettazione Composta* è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento **ok** o **NV**
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola

	flessione)
V N/M	Verifica delle sollecitazioni Normali (momento e sforzo normale)
Ver. rid	Rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd)
Af pr+	quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af pr-	quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec+	quantità di armatura richiesta in direzione secondaria relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	quantità di armatura richiesta in direzione secondaria relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Nz No Nzo	Sforzi membranali per pareti e\o setti verticali
Mz Mo Mzo	Sforzi flessionali per pareti e\o setti verticali
Nx Ny Nxy	Sforzi membranali per gusci orizzontali
Mx Mx Mxy	Sforzi flessionali per gusci orizzontali

Nodo	numero del nodo
Stato	codice di verifica dell'elemento **ok** o **NV**
Max tau	Tensione tangenziale Massima
Ver V pr	Verifica a taglio nella direzione principale lato calcestruzzo
Ver V sec	Verifica a taglio nella direzione secondaria lato calcestruzzo
Af V pr	Armatura nella direzione principale
V pr-	Verifica dell'armatura nella direzione principale
Af V sec	Armatura nella direzione secondaria
V sec-	Verifica dell'armatura nella direzione secondaria

Per le verifiche degli elementi con progettazione "*Parete Sismica o Parete Debolmente Armata*", oltre alla tabella con le verifiche per gli elementi con progettazione "*Singolo Elemento …*", è presente una tabella con i simboli di seguito descritti:

Quota	Ascissa verticale di riferimento
Af conf.	Numero e diametro armatura presente in una zona confinata
Af std	Diametro e passo armatura in zona non confinata (doppia maglia)

Af estremi	Diametro dei ferri di estremità del pannello; se posto uguale 0, viene utilizzato il diametro standard
Af V (ori)	Diametro e passo armatura orizzontale (doppia maglia)
Ver. N	Rapporto tra azione di calcolo e resistenza a compressione (normalizzato a 1 in quanto da confrontare con 40% in CDB e 35 % in CDA)
Ver. N/M	Rapporto tra azione di calcolo e resistenza a pressoflessione
Ver. V acc(7)	Rapporto tra azione di calcolo e resistenza a taglio-trazione per alfaS minore di 2 secondo paragrafo 7.4.4.5.1
Ver. V cls	Rapporto tra azione di calcolo e resistenza a taglio-compressione
Ver. V acc	Rapporto tra azione di calcolo e resistenza a taglio-trazione
Ver. V scorr.	Rapporto tra azione di calcolo e resistenza a taglio scorrimento
N add	Sforzo assiale di cui al punto 7.4.4.5.1 da sommare e sottrarre nelle verifiche quando q supera 2
N invil M invil	Inviluppo del Momento e Sforzo Normale come al punto 7.4.4.5.1 (informativo) (solo in Parete Sismica)

Quota	Ascissa verticale di riferimento
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore
N v.Vacc, M v.Vacc, V v.Vacc,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. acc attinge il massimo valore
N v.Vscorr, M v.Vscorr, V v.Vscorr,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. scorr.e
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore

Quota	Ascissa verticale di riferimento
CtgT Vcls	Valore di ctg(teta) adottato nella verifica V compressione cls
Vrsd Vcls	Valore della resistenza a taglio trazione (armatura di calcolo)
Vrcd Vcls	Valore della resistenza a taglio compressione
CtgT Vacc	Valore di ctg(teta) adottato nella verifica V trazione armatura
Vrsd Vacc	Valore della resistenza a taglio trazione (armatura presente)
Vrcd Vacc	Valore della resistenza a taglio compressione
Vdd	Valore del contributo alla resistenza allo scorrimento come da [7.4.20]
Vid	Valore del contributo alla resistenza allo scorrimento come da [7.4.21]
A s.i.	Somma delle aree di armature
Incli.	Angolo di inclinazione delle armature
Dist.	Distanza alla base tra le armature inclinate

Quota	Ascissa verticale di riferimento
V[7.4.16]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.16)
N M V	Sollecitazioni di calcolo della condizione più gravosa
Alfas	Rapporto di Taglio
Vrd,c	Resistenza a taglio degli elementi non armati
VRd,s	Resistenza a taglio nei confronti dello scorrimento
V[7.4.17]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.17)
roH	Rapporto tra l'armatura orizzontale e l'area della sezione relativa di calcestruzzo
roV	Rapporto tra l'armatura verticale e l'area della sezione relativa di calcestruzzo
roN	Sforzo normale adimensionalizzato Ned/(bw fyd)

Per la verifica a *Punzonamento* è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento **ok** o **NV**
V. 6.47	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro resistente U1

V. 6.53	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro del pilastro U0
Beta	Fattore di incremento dovuto ai momenti flettenti
f. a fon	fattore di amplificazione per le fondazioni (solo per gusci di fondazione)
f. Uout	fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta
Aw tot	Quantitativo di armatura per la verifica di piastre munite di armatura (formula 6.52 dell'EC2)
Asw,min	Quantitativo minimo di armatura previsto dai dettagli costruttivi (formula 9.11 dell'EC2)
n. x serie	Numero di serie di armature
n.ser 0(R)	Numero di braccia delle armatura in direzione 0 (o numero di braccia radiale)
n.ser 90	Numero di braccia delle armatura in direzione 90 (solo se armatura cruciforme)
Rif. cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

41.2. **PROGETTAZIONE DELLE FONDAZIONI**

Il D.M.17/01/2018 - par: 7.2.5 prevede:

"Sia per CD"A" sia per CD"B" il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:

- quella derivante dall'analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;
- […];
- quella trasferita dagli elementi soprastanti nell'ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD"A" e 1,10 in CD"B";

Nel contesto visualizzazione risultati e nella stampa della relazione sulle fondazioni PRO_SAP mostra le sollecitazioni che derivano dall'analisi non incrementate sia in termini di pressioni sul terreno che in termini di sollecitazioni.

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO_SAP (per travi e platee) o da PRO_CAD Plinti (per plinti e pali di fondazione) incrementando le sollecitazioni delle combinazioni con sisma di un coefficiente pari 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l'incremento delle sollecitazioni ha un fattore pari a 1.2 in CDB e 1.35 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

N.B.: nel caso di comportamento strutturale non dissipativo le verifiche geotecniche vengono effettuate senza

nessun incremento.

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
1	40.00	1	1	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok	0.08	0.1	5.37e-03	12.7	12.7	12.7	12.7	-12.9	-19.5	-3.8	-1269.3	-894.5	631.7
3	ok	0.08	9.94e-02	4.92e-03	12.7	12.7	12.7	12.7	-14.1	-18.9	6.3	-1216.6	-759.2	-549.9
6	ok	0.08	0.3	2.36e-02	12.7	12.7	12.7	12.7	-10.6	82.7	46.1	-4037.6	-3171.1	-888.9
9	ok	0.08	0.3	1.78e-02	12.7	12.7	12.7	12.7	-12.1	76.9	-37.7	-4065.6	-3191.5	849.5
11	ok	0.08	0.2	2.14e-02	12.7	12.7	12.7	12.7	-14.5	68.1	44.3	-3370.9	-2994.0	-721.9
13	ok	0.08	0.2	1.58e-02	12.7	12.7	12.7	12.7	-13.9	62.4	-38.2	-3371.9	-2991.8	648.0
15	ok	0.08	0.2	1.35e-02	12.7	12.7	12.7	12.7	11.7	54.7	-31.1	-3147.9	-2369.5	427.7
17	ok	0.08	0.2	1.29e-02	12.7	12.7	12.7	12.7	11.2	53.4	26.3	-3182.5	-2366.8	-439.9
19	ok	0.08	8.88e-02	4.63e-03	12.7	12.7	12.7	12.7	-13.3	-14.9	5.5	-1094.5	-831.9	-517.2
21	ok	0.08	8.47e-02	4.64e-03	12.7	12.7	12.7	12.7	-3.1	4.1	9.5	-1006.6	-994.8	369.9
22	ok	0.08	6.28e-02	3.78e-03	12.7	12.7	12.7	12.7	-9.2	-10.1	-4.2	-533.2	354.1	-374.4
23	ok	0.08	6.25e-02	3.20e-03	12.7	12.7	12.7	12.7	-2.5	12.2	-2.4	379.5	747.4	-421.2
24	ok	0.08	5.55e-02	4.78e-03	12.7	12.7	12.7	12.7	-4.5	16.8	17.1	865.7	445.5	-157.1
25	ok	0.08	5.49e-02	6.87e-04	12.7	12.7	12.7	12.7	2.2	6.2	0.4	857.5	796.1	-144.5
26	ok	0.08	5.44e-02	1.19e-03	12.7	12.7	12.7	12.7	-3.4	7.4	0.2	923.6	424.6	-126.6
27	ok	0.08	5.42e-02	2.36e-04	12.7	12.7	12.7	12.7	-0.6	1.6	-0.4	940.9	755.8	61.9
28	ok	0.08	6.08e-02	5.69e-04	12.7	12.7	12.7	12.7	-2.0	1.0	0.1	1070.6	360.7	93.3
29	ok	0.08	6.10e-02	3.62e-04	12.7	12.7	12.7	12.7	-1.8	5.0	-0.9	783.9	781.2	304.0
30	ok	0.08	5.94e-02	1.12e-03	12.7	12.7	12.7	12.7	-1.5	1.6	0.2	894.5	340.5	342.2
31	ok	0.08	6.66e-02	2.62e-03	12.7	12.7	12.7	12.7	3.6	26.3	-10.5	440.6	1050.6	293.5
32	ok	0.08	4.43e-02	4.33e-03	12.7	12.7	12.7	12.7	-2.9	5.9	-1.3	309.0	293.5	429.2
33	ok	0.08	0.1	1.26e-02	12.7	12.7	12.7	12.7	-22.3	38.6	4.7	-766.3	1096.6	688.1
34	ok	0.08	8.70e-02	1.15e-02	12.7	12.7	12.7	12.7	19.3	-33.5	19.1	-599.6	-817.3	821.4
35	ok	0.08	9.32e-02	6.91e-03	12.7	12.7	12.7	12.7	20.3	-6.9	0.9	-1614.1	1108.4	-197.5
36	ok	0.08	0.1	1.17e-02	12.7	12.7	12.7	12.7	-3.1	-43.7	-31.8	-2020.7	-2060.8	-377.0
37	ok	0.08	4.26e-02	4.13e-03	12.7	12.7	12.7	12.7	-8.2	11.4	4.7	321.4	346.8	198.9
38	ok	0.08	8.21e-02	1.11e-02	12.7	12.7	12.7	12.7	-18.1	33.3	-6.6	-493.0	1051.6	-542.8
39	ok	0.08	6.28e-02	9.04e-03	12.7	12.7	12.7	12.7	15.7	-24.4	-15.9	-370.5	-567.6	-621.7
40	ok	0.08	6.06e-02	2.39e-03	12.7	12.7	12.7	12.7	1.3	21.7	10.0	472.3	1034.1	-129.0
41	ok	0.08	3.65e-02	3.64e-03	12.7	12.7	12.7	12.7	-3.5	4.0	1.4	403.3	313.1	-239.4
42	ok	0.08	4.87e-02	4.05e-04	12.7	12.7	12.7	12.7	-2.0	4.1	0.8	729.4	796.1	-97.9
43	ok	0.08	4.82e-02	1.07e-03	12.7	12.7	12.7	12.7	-2.0	1.0	-0.3	838.2	344.1	-97.2
44	ok	0.08	5.02e-02	3.04e-04	12.7	12.7	12.7	12.7	-1.4	3.6	-0.9	732.7	798.1	125.1
45	ok	0.08	4.90e-02	8.85e-04	12.7	12.7	12.7	12.7	-2.2	1.0	-0.6	838.3	350.0	130.3
46	ok	0.08	6.00e-02	1.99e-03	12.7	12.7	12.7	12.7	3.8	18.2	-7.0	490.0	1002.1	173.3
47	ok	0.08	3.73e-02	3.30e-03	12.7	12.7	12.7	12.7	-2.5	3.6	-1.8	398.6	321.8	266.7
48	ok	0.08	8.33e-02	9.07e-03	12.7	12.7	12.7	12.7	-13.0	28.2	4.9	-489.1	1047.5	479.8
49	ok	0.08	6.40e-02	9.52e-03	12.7	12.7	12.7	12.7	19.4	-25.6	15.9	-370.2	-657.8	587.7
50	ok	0.08	7.69e-02	4.21e-03	12.7	12.7	12.7	12.7	39.9	13.8	-2.7	-754.6	1239.4	-84.9
51	ok	0.08	0.1	9.52e-03	12.7	12.7	12.7	12.7	-36.5	-21.3	-19.4	-1599.8	453.4	-882.2
52	ok	0.08	0.1	1.17e-02	12.7	12.7	12.7	12.7	1.2	-46.3	30.7	-1936.7	-1999.0	440.1
53	ok	0.08	4.80e-02	1.41e-03	12.7	12.7	12.7	12.7	4.8	24.8	2.5	197.8	637.4	-321.0
54	ok	0.08	4.26e-02	4.99e-03	12.7	12.7	12.7	12.7	-1.6	19.4	-3.2	102.5	483.2	-200.8
55	ok	0.08	5.30e-02	4.03e-04	12.7	12.7	12.7	12.7	-0.7	5.5	-1.6	597.2	748.3	-255.9
56	ok	0.08	4.57e-02	1.11e-03	12.7	12.7	12.7	12.7	-0.8	3.8	-1.8	676.8	341.9	-254.0
57	ok	0.08	4.53e-02	2.62e-04	12.7	12.7	12.7	12.7	-0.7	1.2	-0.8	784.9	759.6	-31.8
58	ok	0.08	5.06e-02	4.76e-04	12.7	12.7	12.7	12.7	-2.1	-0.5	-0.9	872.4	387.6	-25.7
59	ok	0.08	5.20e-02	3.26e-04	12.7	12.7	12.7	12.7	-1.4	4.3	-1.1	646.8	786.1	197.9
60	ok	0.08	4.71e-02	9.98e-04	12.7	12.7	12.7	12.7	-1.4	1.1	-0.4	745.0	334.2	216.3
61	ok	0.08	5.96e-02	2.31e-03	12.7	12.7	12.7	12.7	4.4	23.3	-9.7	282.1	1003.5	173.6
62	ok	0.08	2.96e-02	4.20e-03	12.7	12.7	12.7	12.7	-1.8	2.0	-1.2	174.6	271.1	259.4
63	ok	0.08	0.1	1.17e-02	12.7	12.7	12.7	12.7	-18.4	32.0	3.0	-995.3	1056.7	483.0
64	ok	0.08	7.93e-02	1.06e-02	12.7	12.7	12.7	12.7	25.5	-27.4	19.3	-792.7	-873.9	564.9
65	ok	0.08	8.53e-02	5.41e-03	12.7	12.7	12.7	12.7	46.9	10.5	3.8	-1200.5	1272.0	-166.1
66	ok	0.08	0.1	1.22e-02	12.7	12.7	12.7	12.7	-41.4	-27.5	-28.5	-1958.9	104.0	-1193.7
67	ok	0.08	0.1	1.33e-02	12.7	12.7	12.7	12.7	4.4	-60.5	26.1	-2072.4	-1772.3	470.8
68	ok	0.08	5.35e-02	1.59e-03	12.7	12.7	12.7	12.7	-4.1	4.6	-1.0	-157.6	578.0	-591.4
69	ok	0.08	4.28e-02	5.90e-03	12.7	12.7	12.7	12.7	-13.4	-26.9	-8.3	-258.5	-308.8	-442.5

70	ok	0.08	6.17e-02	3.32e-04	12.7	12.7	12.7	12.7	-0.7	5.9	-0.7	564.8	732.8	-439.1
71	ok	0.08	5.56e-02	1.22e-03	12.7	12.7	12.7	12.7	-0.6	3.6	-1.1	641.2	321.4	-482.0
72	ok	0.08	5.88e-02	2.62e-04	12.7	12.7	12.7	12.7	-0.5	1.0	-0.6	892.1	740.6	-218.5
73	ok	0.08	6.19e-02	4.29e-04	12.7	12.7	12.7	12.7	-1.5	0.6	-0.5	1018.6	350.5	-250.2
74	ok	0.08	5.30e-02	2.25e-04	12.7	12.7	12.7	12.7	-0.1	1.9	0.7	934.6	747.2	43.3
75	ok	0.08	5.98e-02	5.17e-04	12.7	12.7	12.7	12.7	-1.4	1.3	4.58e-02	1062.8	358.1	22.8
76	ok	0.08	5.69e-02	6.78e-04	12.7	12.7	12.7	12.7	3.8	8.2	0.7	762.3	758.6	244.0
77	ok	0.08	4.98e-02	2.14e-03	12.7	12.7	12.7	12.7	-2.9	10.3	-1.1	777.8	420.4	203.4
78	ok	0.08	6.16e-02	3.62e-03	12.7	12.7	12.7	12.7	18.6	12.3	-8.8	378.0	750.6	264.0
79	ok	0.08	6.27e-02	5.49e-03	12.7	12.7	12.7	12.7	5.5	17.8	6.0	244.2	363.2	462.3
80	ok	0.08	6.49e-02	3.63e-03	12.7	12.7	12.7	12.7	-8.5	-5.8	2.1	-493.5	389.9	395.8
81	ok	0.08	8.91e-02	1.02e-03	12.7	12.7	12.7	12.7	13.9	6.0	-3.6	237.1	1433.0	-435.5
82	ok	0.08	8.57e-02	1.28e-03	12.7	12.7	12.7	12.7	1.2	4.9	-6.3	356.1	1367.4	-412.2
83	ok	0.08	7.80e-02	2.58e-04	12.7	12.7	12.7	12.7	1.2	3.6	-2.5	670.2	1340.6	-173.6
84	ok	0.08	7.50e-02	8.13e-05	12.7	12.7	12.7	12.7	1.2	0.7	-0.6	767.3	1328.6	60.9
85	ok	0.08	8.14e-02	4.61e-05	12.7	12.7	12.7	12.7	0.8	2.0	0.3	647.3	1352.0	278.3
86	ok	0.08	9.21e-02	4.66e-04	12.7	12.7	12.7	12.7	-1.7	9.0	2.9	282.8	1479.5	444.1
87	ok	0.08	9.57e-02	3.65e-03	12.7	12.7	12.7	12.7	-15.2	5.0	9.7	-411.0	1527.1	587.3
88	ok	0.08	0.1	1.47e-03	12.7	12.7	12.7	12.7	16.7	6.9	6.6	-248.4	1794.2	165.0
89	ok	0.08	4.58e-02	8.06e-04	12.7	12.7	12.7	12.7	-0.8	3.9	1.8	674.2	343.8	256.7
90	ok	0.08	9.11e-02	2.49e-03	12.7	12.7	12.7	12.7	-11.6	4.6	-4.9	-304.4	1520.6	-424.5
91	ok	0.08	8.80e-02	3.63e-04	12.7	12.7	12.7	12.7	-0.6	7.6	-3.4	346.9	1490.3	-277.7
92	ok	0.08	7.97e-02	7.66e-05	12.7	12.7	12.7	12.7	1.0	2.0	-0.4	603.9	1404.6	-100.2
93	ok	0.08	8.03e-02	9.97e-05	12.7	12.7	12.7	12.7	1.4	1.8	0.9	610.8	1412.6	109.3
94	ok	0.08	8.91e-02	3.19e-04	12.7	12.7	12.7	12.7	-0.1	7.0	3.5	356.4	1517.3	265.0
95	ok	0.08	9.34e-02	3.42e-03	12.7	12.7	12.7	12.7	-10.7	6.0	13.1	-135.3	1567.4	377.6
96	ok	0.08	0.1	1.16e-03	12.7	12.7	12.7	12.7	-0.6	21.3	-8.7	-85.2	1845.1	-104.9
97	ok	0.08	9.35e-02	6.74e-03	12.7	12.7	12.7	12.7	-24.0	-0.1	-19.9	-493.4	1539.9	-318.7
98	ok	0.08	8.87e-02	8.89e-04	12.7	12.7	12.7	12.7	1.0	3.2	-0.7	139.7	1505.9	-287.3
99	ok	0.08	8.21e-02	1.23e-04	12.7	12.7	12.7	12.7	0.5	1.8	-1.0	496.4	1412.0	-213.5
100	ok	0.08	7.82e-02	9.54e-05	12.7	12.7	12.7	12.7	0.9	1.1	-0.3	643.3	1390.2	-30.0
101	ok	0.08	8.06e-02	5.61e-05	12.7	12.7	12.7	12.7	1.1	1.8	0.8	536.1	1398.5	176.7
102	ok	0.08	8.98e-02	3.91e-04	12.7	12.7	12.7	12.7	-1.1	7.8	3.0	145.1	1520.6	308.2
103	ok	0.08	9.34e-02	4.87e-03	12.7	12.7	12.7	12.7	-16.1	5.1	17.0	-481.7	1557.8	389.2
104	ok	0.08	0.1	9.80e-04	12.7	12.7	12.7	12.7	3.2	26.8	-8.3	-245.2	1912.0	-174.6
105	ok	0.08	9.46e-02	7.96e-03	12.7	12.7	12.7	12.7	-28.0	1.0	-24.1	-788.9	1532.1	-492.2
106	ok	0.08	9.11e-02	9.09e-04	12.7	12.7	12.7	12.7	-4.5	6.0	1.6	-126.8	1512.6	-424.8
107	ok	0.08	8.45e-02	7.88e-05	12.7	12.7	12.7	12.7	0.8	1.5	-0.9	465.5	1363.4	-379.5
108	ok	0.08	7.75e-02	7.82e-05	12.7	12.7	12.7	12.7	0.9	0.7	-0.2	726.7	1325.2	-189.5
109	ok	0.08	7.39e-02	7.25e-05	12.7	12.7	12.7	12.7	1.3	1.1	1.1	759.3	1309.0	41.9
110	ok	0.08	7.96e-02	2.30e-04	12.7	12.7	12.7	12.7	0.8	3.9	2.2	559.2	1334.4	255.8
111	ok	0.08	8.69e-02	1.62e-03	12.7	12.7	12.7	12.7	3.9	3.0	1.8	299.1	1355.4	372.4
112	ok	0.08	8.87e-02	1.43e-03	12.7	12.7	12.7	12.7	11.3	6.5	1.5	233.0	1430.5	428.9
113	ok	0.08	0.1	1.17e-04	12.7	12.7	12.7	12.7	1.3	4.3	-1.2	142.4	1960.8	-367.6
114	ok	0.08	0.1	8.42e-05	12.7	12.7	12.7	12.7	1.3	3.6	-2.2	370.3	1897.6	-248.0
115	ok	0.08	0.1	8.10e-05	12.7	12.7	12.7	12.7	1.5	2.6	-1.8	566.4	1855.1	-118.9
116	ok	0.08	0.1	4.01e-05	12.7	12.7	12.7	12.7	1.8	1.6	-0.7	643.3	1849.5	46.5
117	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.9	2.1	0.4	568.7	1894.1	191.6
118	ok	0.08	0.1	4.43e-05	12.7	12.7	12.7	12.7	1.6	3.7	0.7	378.7	1983.4	257.1
119	ok	0.08	0.1	1.77e-04	12.7	12.7	12.7	12.7	2.3	4.9	-1.37e-02	167.2	2087.0	212.4
120	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	2.4	5.9	0.8	68.6	2148.3	65.3
121	ok	0.08	5.05e-02	4.05e-04	12.7	12.7	12.7	12.7	-1.6	0.8	0.6	898.2	351.0	23.4
122	ok	0.08	0.1	1.77e-04	12.7	12.7	12.7	12.7	2.6	4.8	-0.6	193.2	2097.1	-111.9
123	ok	0.08	0.1	5.66e-05	12.7	12.7	12.7	12.7	1.8	3.4	-1.3	393.4	2019.4	-139.9
124	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	2.3	2.3	-0.5	542.0	1975.8	-61.9
125	ok	0.08	0.1	4.48e-05	12.7	12.7	12.7	12.7	2.3	2.4	1.1	554.3	1983.6	59.8
126	ok	0.08	0.1	1.33e-04	12.7	12.7	12.7	12.7	1.5	3.9	2.1	441.2	2037.6	129.3
127	ok	0.08	0.1	3.41e-04	12.7	12.7	12.7	12.7	1.0	6.1	0.8	302.4	2108.7	98.1
128	ok	0.08	0.1	3.75e-04	12.7	12.7	12.7	12.7	0.8	8.6	3.9	247.1	2152.9	36.6
129	ok	0.08	0.1	1.29e-03	12.7	12.7	12.7	12.7	1.6	4.6	-0.8	245.2	2133.4	-29.5
130	ok	0.08	0.1	1.15e-04	12.7	12.7	12.7	12.7	1.9	3.3	-1.4	324.1	2080.6	-129.2
131	ok	0.08	0.1	6.67e-05	12.7	12.7	12.7	12.7	1.6	1.9	-0.8	484.8	1995.0	-123.7
132	ok	0.08	0.1	2.81e-05	12.7	12.7	12.7	12.7	1.7	1.6	1.89e-02	567.5	1957.0	-22.0
133	ok	0.08	0.1	5.91e-05	12.7	12.7	12.7	12.7	2.0	2.3	1.4	493.1	1978.2	101.4
134	ok	0.08	0.1	1.26e-04	12.7	12.7	12.7	12.7	1.7	4.4	2.1	310.9	2047.1	137.2
135	ok	0.08	0.1	6.14e-04	12.7	12.7	12.7	12.7	1.1	6.7	1.1	132.9	2117.5	65.0
136	ok	0.08	0.1	4.15e-04	12.7	12.7	12.7	12.7	2.6	6.4	-1.9	105.7	2136.5	-61.5
137	ok	0.08	0.1	1.34e-03	12.7	12.7	12.7	12.7	1.6	5.4	-0.8	89.5	2124.6	-117.2
138	ok	0.08	0.1	1.32e-04	12.7	12.7	12.7	12.7	1.8	3.8	-1.6	218.3	2044.1	-249.8
139	ok	0.08	0.1	4.51e-05	12.7	12.7	12.7	12.7	1.5	2.2	-0.6	457.0	1927.2	-248.2
140	ok	0.08	0.1	1.68e-05	12.7	12.7	12.7	12.7	1.4	1.3	-7.64e-02	615.7	1854.7	-139.7
141	ok	0.08	0.1	6.07e-05	12.7	12.7	12.7	12.7	1.4	1.7	1.1	628.7	1834.2	27.4
142	ok	0.08	0.1	8.87e-05	12.7	12.7	12.7	12.7	1.0	2.6	1.4	500.8	1857.5	171.2
143	ok	0.08	0.1	1.46e-04	12.7	12.7	12.7	12.7	0.3	4.3	2.3	282.0	1916.8	284.3
144	ok	0.08	0.1	1.70e-04	12.7	12.7	12.7	12.7	1.0	4.2	1.0	143.5	1954.1	368.5
145	ok	0.08	0.1	5.93e-05	12.7	12.7	12.7	12.7	0.2	2.9	-0.6	134.4	2342.6	-264.4

146	ok	0.08	0.1	6.19e-05	12.7	12.7	12.7	12.7	0.6	2.9	-1.1	344.4	2275.7	-165.8
147	ok	0.08	0.1	5.05e-05	12.7	12.7	12.7	12.7	1.1	2.5	-1.1	497.1	2240.0	-77.4
148	ok	0.08	0.1	6.37e-06	12.7	12.7	12.7	12.7	1.5	2.2	-0.5	565.6	2239.8	29.8
149	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.6	2.6	0.2	535.5	2281.7	117.7
150	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.4	3.6	0.4	440.1	2352.0	152.5
151	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.0	4.7	0.4	329.1	2429.9	122.8
152	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.2	5.1	-0.4	291.8	2466.2	46.0
153	ok	0.08	4.70e-02	6.53e-04	12.7	12.7	12.7	12.7	-1.7	1.8	0.2	740.9	339.9	-216.7
154	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.4	4.6	-0.6	343.9	2452.6	-41.2
155	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.7	3.8	-0.8	444.5	2414.9	-67.1
156	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	2.0	3.0	-0.2	530.1	2384.6	-33.5
157	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.9	3.1	0.7	545.8	2388.5	28.0
158	ok	0.08	0.1	8.46e-06	12.7	12.7	12.7	12.7	1.3	4.1	1.0	495.7	2422.7	60.5
159	ok	0.08	0.1	2.70e-05	12.7	12.7	12.7	12.7	0.5	5.2	0.5	432.0	2462.5	43.4
160	ok	0.08	0.1	5.35e-05	12.7	12.7	12.7	12.7	1.1	5.5	1.5	420.0	2477.7	12.9
161	ok	0.08	0.1	1.37e-04	12.7	12.7	12.7	12.7	0.3	5.4	-2.1	408.6	2476.4	-19.4
162	ok	0.08	0.1	4.46e-06	12.7	12.7	12.7	12.7	1.4	3.4	-0.7	443.8	2444.3	-57.9
163	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.7	2.6	-0.5	508.1	2401.2	-59.8
164	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.8	2.4	0.2	542.4	2373.4	-12.2
165	ok	0.08	0.1	2.86e-05	12.7	12.7	12.7	12.7	1.6	3.0	1.1	498.4	2385.0	48.9
166	ok	0.08	0.1	4.52e-05	12.7	12.7	12.7	12.7	1.0	4.3	1.2	403.5	2421.3	60.4
167	ok	0.08	0.1	7.53e-05	12.7	12.7	12.7	12.7	7.05e-02	5.9	0.9	311.1	2458.9	14.8
168	ok	0.08	0.1	4.79e-05	12.7	12.7	12.7	12.7	0.6	5.7	1.4	301.8	2459.1	-34.1
169	ok	0.08	0.1	1.09e-04	12.7	12.7	12.7	12.7	-0.1	6.0	-1.7	292.4	2453.3	-78.5
170	ok	0.08	0.1	9.42e-06	12.7	12.7	12.7	12.7	1.0	3.8	-0.9	358.5	2392.9	-142.8
171	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.3	2.6	-0.7	469.2	2314.6	-151.2
172	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.4	2.0	-3.03e-02	553.2	2249.4	-88.8
173	ok	0.08	0.1	3.23e-05	12.7	12.7	12.7	12.7	1.2	2.1	0.7	547.2	2224.8	16.3
174	ok	0.08	0.1	5.38e-05	12.7	12.7	12.7	12.7	0.8	2.7	1.1	442.1	2242.2	115.2
175	ok	0.08	0.1	5.19e-05	12.7	12.7	12.7	12.7	0.3	3.2	0.9	273.4	2290.9	192.3
176	ok	0.08	0.1	4.87e-05	12.7	12.7	12.7	12.7	0.2	3.3	0.6	134.5	2334.9	265.3
177	ok	0.08	0.1	4.31e-05	12.7	12.7	12.7	12.7	8.43e-02	2.2	-0.4	127.7	2580.0	-166.6
178	ok	0.08	0.1	4.02e-05	12.7	12.7	12.7	12.7	0.4	2.5	-0.6	320.8	2520.2	-98.4
179	ok	0.08	0.1	1.80e-05	12.7	12.7	12.7	12.7	0.9	2.4	-0.6	454.8	2491.2	-44.8
180	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.2	2.4	-0.3	523.2	2493.8	16.2
181	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.3	2.8	4.62e-02	523.6	2528.6	64.0
182	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.2	3.5	0.2	478.3	2584.3	83.4
183	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.0	4.2	0.1	429.1	2639.3	67.1
184	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.0	4.5	-0.1	410.2	2669.8	30.4
185	ok	0.08	3.04e-02	4.67e-03	12.7	12.7	12.7	12.7	-1.0	2.7	-0.2	129.5	222.7	-331.4
186	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	4.2	-0.3	436.1	2673.0	-12.6
187	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.5	3.7	-0.4	489.6	2657.8	-28.7
188	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.7	3.3	-9.75e-02	538.9	2642.7	-16.0
189	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.6	3.4	0.3	554.5	2644.9	11.7
190	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	3.8	0.5	536.0	2663.6	26.4
191	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.0	4.2	0.2	511.3	2684.9	18.7
192	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	4.2	0.4	507.6	2692.6	4.9
193	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	4.2	-0.7	505.6	2692.5	-7.9
194	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	3.3	-0.3	511.7	2675.2	-24.8
195	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.6	2.8	-0.2	536.5	2652.5	-26.1
196	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.6	2.7	0.2	545.6	2636.4	-5.7
197	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.3	3.2	0.6	516.8	2640.8	20.9
198	ok	0.08	0.1	9.11e-06	12.7	12.7	12.7	12.7	0.9	4.0	0.7	461.6	2658.4	24.4
199	ok	0.08	0.2	1.78e-05	12.7	12.7	12.7	12.7	0.5	4.6	0.4	419.9	2670.0	-0.8
200	ok	0.08	0.2	1.37e-05	12.7	12.7	12.7	12.7	0.5	4.6	0.3	413.9	2663.1	-26.2
201	ok	0.08	0.1	8.21e-06	12.7	12.7	12.7	12.7	0.5	4.6	-0.5	413.8	2656.6	-44.7
202	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	0.8	3.6	-0.4	438.6	2610.9	-76.5
203	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.1	2.9	-0.4	490.9	2553.7	-80.5
204	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.2	2.3	-3.64e-02	524.6	2502.9	-48.2
205	ok	0.08	0.1	2.89e-06	12.7	12.7	12.7	12.7	1.0	2.2	0.4	500.9	2479.8	9.4
206	ok	0.08	0.1	2.85e-05	12.7	12.7	12.7	12.7	0.6	2.5	0.5	406.3	2490.8	67.0
207	ok	0.08	0.1	4.01e-05	12.7	12.7	12.7	12.7	0.3	2.7	0.4	256.3	2532.1	115.4
208	ok	0.08	0.1	2.94e-05	12.7	12.7	12.7	12.7	8.45e-02	2.6	0.4	127.5	2572.0	167.6
209	ok	0.08	0.2	3.14e-05	12.7	12.7	12.7	12.7	8.59e-02	1.9	-0.2	123.1	2704.8	-68.0
210	ok	0.08	0.1	2.15e-05	12.7	12.7	12.7	12.7	0.4	2.2	-0.3	306.5	2646.4	-39.8
211	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	0.7	2.3	-0.3	433.5	2621.2	-18.1
212	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.0	2.5	-0.1	503.6	2625.7	6.3
213	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.1	2.8	4.75e-02	520.1	2654.7	25.6
214	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	3.4	5.61e-02	502.8	2700.4	31.6
215	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.0	3.9	2.34e-03	475.8	2747.3	26.0
216	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.0	4.2	-2.15e-02	465.9	2775.1	13.0
217	ok	0.08	8.22e-02	1.00e-02	12.7	12.7	12.7	12.7	21.4	-27.8	-21.3	-811.2	-893.2	-597.6
218	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	4.0	-0.1	481.7	2785.9	-3.1
219	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.4	3.6	-0.2	515.5	2780.2	-10.8
220	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.5	3.3	-6.82e-02	548.9	2773.2	-6.8
221	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.5	3.3	0.2	563.5	2775.1	4.3

222	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	3.5	0.2	557.3	2786.5	9.8
223	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	3.6	0.1	547.1	2799.0	7.5
224	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	3.7	4.27e-02	547.7	2805.0	2.1
225	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	3.6	-0.1	547.1	2804.9	-3.3
226	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	3.1	-0.2	542.7	2794.2	-10.1
227	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.5	2.8	-0.1	553.6	2779.5	-9.7
228	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.4	2.8	8.91e-03	553.2	2769.0	-2.5
229	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	3.2	0.3	531.0	2769.9	7.9
230	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.8	3.7	0.3	494.7	2776.9	8.9
231	ok	0.08	0.2	1.02e-06	12.7	12.7	12.7	12.7	0.6	4.1	8.40e-02	470.4	2779.0	-2.7
232	ok	0.08	0.2	1.81e-06	12.7	12.7	12.7	12.7	0.5	4.1	-3.00e-02	466.9	2769.0	-11.0
233	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.5	4.0	-4.58e-02	467.3	2761.9	-18.1
234	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.7	3.5	-0.2	476.9	2722.9	-29.1
235	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.9	2.9	-0.1	505.3	2674.4	-29.6
236	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.0	2.4	-7.70e-02	513.3	2632.5	-18.8
237	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	0.8	2.3	0.2	479.1	2611.5	4.6
238	ok	0.08	0.1	1.02e-05	12.7	12.7	12.7	12.7	0.6	2.3	0.3	387.1	2619.6	27.7
239	ok	0.08	0.1	2.81e-05	12.7	12.7	12.7	12.7	0.3	2.5	0.1	245.0	2657.5	45.7
240	ok	0.08	0.2	2.52e-05	12.7	12.7	12.7	12.7	8.98e-02	2.4	0.2	122.9	2696.5	69.0
241	ok	0.08	0.2	2.83e-05	12.7	12.7	12.7	12.7	8.24e-02	1.9	0.1	122.5	2724.9	33.0
242	ok	0.08	0.2	1.79e-05	12.7	12.7	12.7	12.7	0.4	2.2	0.2	304.5	2667.1	19.0
243	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	0.7	2.3	0.2	430.1	2642.7	9.1
244	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.0	2.5	3.05e-02	500.4	2646.6	-1.9
245	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	2.8	-6.03e-02	519.3	2676.0	-9.3
246	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	3.4	-0.1	506.3	2719.5	-11.3
247	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.0	3.9	-0.1	483.4	2764.3	-10.0
248	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.0	4.1	-1.26e-02	475.5	2792.0	-5.5
249	ok	0.08	0.1	1.34e-02	12.7	12.7	12.7	12.7	-2.1	-57.2	-29.9	-2157.3	-1874.1	-445.1
250	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	4.0	0.2	489.6	2804.0	-0.2
251	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.4	3.6	0.2	519.8	2800.9	2.9
252	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.5	3.4	0.1	550.2	2795.2	1.6
253	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.5	3.3	-9.26e-02	564.5	2796.9	-2.7
254	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	3.5	-0.1	560.7	2807.0	-4.6
255	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	3.6	-7.34e-02	553.0	2818.1	-3.7
256	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	3.6	5.96e-03	553.9	2822.8	-2.0
257	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	3.6	6.09e-02	553.3	2822.7	1.8
258	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	3.1	0.1	548.0	2813.8	4.5
259	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.4	2.9	9.13e-02	556.1	2800.6	4.3
260	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.4	2.8	5.21e-03	554.2	2790.9	1.7
261	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	3.2	-0.2	533.2	2791.2	-2.8
262	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.8	3.7	-0.2	500.3	2796.6	-3.3
263	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.6	4.0	-3.84e-02	478.5	2796.3	2.2
264	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.5	3.9	-8.65e-02	475.0	2785.2	6.1
265	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.5	3.9	-1.94e-02	475.7	2778.6	8.1
266	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.7	3.4	0.1	481.0	2741.5	13.2
267	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.9	2.8	9.45e-02	505.1	2694.9	13.3
268	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.0	2.4	1.95e-02	511.4	2654.0	8.1
269	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	0.8	2.3	-0.2	475.6	2633.3	-2.3
270	ok	0.08	0.1	7.52e-06	12.7	12.7	12.7	12.7	0.5	2.4	-0.2	384.1	2640.9	-12.7
271	ok	0.08	0.2	2.46e-05	12.7	12.7	12.7	12.7	0.3	2.4	-0.2	243.2	2677.1	-21.0
272	ok	0.08	0.2	2.36e-05	12.7	12.7	12.7	12.7	8.85e-02	2.4	-0.1	122.2	2716.7	-32.2
273	ok	0.08	0.1	3.55e-05	12.7	12.7	12.7	12.7	7.23e-02	2.1	0.3	126.5	2641.7	130.5
274	ok	0.08	0.1	3.54e-05	12.7	12.7	12.7	12.7	0.4	2.4	0.5	315.1	2582.8	75.8
275	ok	0.08	0.1	1.37e-05	12.7	12.7	12.7	12.7	0.8	2.4	0.5	444.3	2556.3	34.3
276	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.2	2.4	0.3	512.0	2560.2	-10.6
277	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.4	2.8	-2.21e-02	520.3	2593.4	-44.5
278	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.3	3.4	-0.2	492.3	2642.6	-57.0
279	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	4.1	-0.2	455.5	2693.9	-47.0
280	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	4.5	9.41e-02	442.4	2722.6	-23.0
281	ok	0.08	4.23e-02	5.37e-03	12.7	12.7	12.7	12.7	-1.5	19.7	-5.0	-123.4	459.7	363.5
282	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	4.2	0.4	461.8	2730.1	4.8
283	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.6	3.7	0.4	502.5	2721.0	16.2
284	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.7	3.3	0.1	541.6	2710.1	9.2
285	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.6	3.3	-0.2	556.8	2711.5	-8.2
286	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	3.7	-0.4	546.1	2725.8	-17.4
287	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	4.0	-0.2	530.3	2742.2	-12.4
288	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.2	4.0	-0.2	529.0	2748.3	-4.2
289	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.1	4.0	0.5	527.0	2748.2	5.3
290	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	3.2	0.3	527.9	2734.5	16.2
291	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.5	2.8	0.2	543.8	2716.7	17.5
292	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.5	2.8	-0.2	547.6	2703.5	4.3
293	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	1.3	3.2	-0.5	522.7	2706.2	-12.9
294	ok	0.08	0.2	1.81e-06	12.7	12.7	12.7	12.7	0.9	3.8	-0.5	480.8	2716.9	-13.7
295	ok	0.08	0.2	1.26e-05	12.7	12.7	12.7	12.7	0.5	4.4	-0.3	446.8	2724.3	3.3
296	ok	0.08	0.2	4.98e-06	12.7	12.7	12.7	12.7	0.5	4.4	-0.2	442.5	2715.9	20.1
297	ok	0.08	0.2	2.14e-06	12.7	12.7	12.7	12.7	0.5	4.4	0.3	441.9	2709.2	33.4

298	ok	0.08	0.2	0.0	12.7	12.7	12.7	12.7	0.8	3.5	0.3	458.3	2667.2	55.2
299	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.0	2.8	0.3	496.5	2615.3	58.0
300	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.1	2.4	-2.77e-02	518.0	2568.5	35.1
301	ok	0.08	0.1	2.08e-06	12.7	12.7	12.7	12.7	0.9	2.3	-0.3	489.7	2546.0	-7.0
302	ok	0.08	0.1	2.47e-05	12.7	12.7	12.7	12.7	0.6	2.4	-0.5	397.3	2553.6	-52.2
303	ok	0.08	0.1	3.76e-05	12.7	12.7	12.7	12.7	0.3	2.6	-0.3	251.7	2594.6	-88.1
304	ok	0.08	0.1	2.76e-05	12.7	12.7	12.7	12.7	8.12e-02	2.5	-0.3	126.0	2634.1	-129.6
305	ok	0.08	0.1	5.36e-05	12.7	12.7	12.7	12.7	4.31e-02	2.6	0.5	133.1	2448.0	233.1
306	ok	0.08	0.1	5.31e-05	12.7	12.7	12.7	12.7	0.5	2.9	1.0	337.5	2385.5	139.6
307	ok	0.08	0.1	4.35e-05	12.7	12.7	12.7	12.7	1.1	2.5	1.1	478.1	2353.7	63.4
308	ok	0.08	0.1	8.59e-06	12.7	12.7	12.7	12.7	1.5	2.2	0.5	542.9	2356.0	-23.8
309	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.7	2.5	-4.63e-02	525.7	2396.5	-92.3
310	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.6	3.4	-0.4	458.3	2460.6	-117.2
311	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.2	4.6	-0.5	381.0	2527.6	-94.4
312	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.3	5.1	0.3	357.0	2560.1	-38.8
313	ok	0.08	5.57e-02	8.41e-04	12.7	12.7	12.7	12.7	-0.8	3.8	1.3	638.4	326.9	484.4
314	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.6	4.5	0.7	392.9	2555.6	22.7
315	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.8	3.7	0.7	463.5	2529.3	44.2
316	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	2.1	2.9	0.2	528.3	2505.2	23.5
317	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.9	3.1	-0.6	544.6	2507.2	-19.8
318	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.3	4.0	-0.9	512.8	2533.2	-42.4
319	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	0.7	4.9	-0.5	470.8	2563.1	-31.0
320	ok	0.08	0.1	2.37e-05	12.7	12.7	12.7	12.7	1.2	5.0	-1.1	465.2	2575.2	-10.2
321	ok	0.08	0.1	8.55e-05	12.7	12.7	12.7	12.7	0.5	5.0	1.6	454.7	2573.8	13.6
322	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.4	3.3	0.6	474.9	2549.6	40.6
323	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.6	2.6	0.4	518.1	2516.2	43.4
324	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.7	2.5	-0.2	540.0	2493.6	9.5
325	ok	0.08	0.1	1.75e-05	12.7	12.7	12.7	12.7	1.5	3.0	-0.9	503.6	2502.7	-34.4
326	ok	0.08	0.1	3.37e-05	12.7	12.7	12.7	12.7	1.0	4.1	-1.1	431.7	2529.9	-40.2
327	ok	0.08	0.1	4.95e-05	12.7	12.7	12.7	12.7	0.2	5.5	-0.7	364.5	2555.5	-5.5
328	ok	0.08	0.1	1.65e-05	12.7	12.7	12.7	12.7	0.7	5.3	-1.0	359.6	2552.5	30.6
329	ok	0.08	0.1	6.10e-05	12.7	12.7	12.7	12.7	2.94e-02	5.5	1.3	350.4	2546.2	63.6
330	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.0	3.7	0.7	396.2	2493.9	111.8
331	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.3	2.6	0.5	477.1	2425.0	119.4
332	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	1.3	2.1	-3.47e-02	538.0	2365.4	71.4
333	ok	0.08	0.1	2.99e-05	12.7	12.7	12.7	12.7	1.1	2.1	-0.6	525.2	2340.9	-13.0
334	ok	0.08	0.1	4.54e-05	12.7	12.7	12.7	12.7	0.7	2.7	-0.9	427.2	2355.3	-94.7
335	ok	0.08	0.1	4.81e-05	12.7	12.7	12.7	12.7	0.3	3.1	-0.8	268.4	2400.9	-162.2
336	ok	0.08	0.1	4.49e-05	12.7	12.7	12.7	12.7	5.09e-02	3.0	-0.5	132.3	2441.8	-232.1
337	ok	0.08	0.1	1.19e-04	12.7	12.7	12.7	12.7	1.3	4.0	1.1	153.6	2129.5	335.9
338	ok	0.08	0.1	5.88e-05	12.7	12.7	12.7	12.7	1.1	3.6	2.2	367.1	2062.7	216.2
339	ok	0.08	0.1	6.81e-05	12.7	12.7	12.7	12.7	1.4	2.6	1.7	535.4	2023.2	98.9
340	ok	0.08	0.1	3.94e-05	12.7	12.7	12.7	12.7	1.7	1.8	0.7	603.6	2018.6	-40.8
341	ok	0.08	0.1	9.02e-06	12.7	12.7	12.7	12.7	2.0	1.9	1.39e-02	544.6	2065.1	-160.6
342	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	2.1	3.3	-0.6	400.1	2153.8	-207.2
343	ok	0.08	0.1	1.30e-04	12.7	12.7	12.7	12.7	3.1	4.7	-0.4	260.2	2244.2	-167.2
344	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	2.7	6.0	-0.9	193.0	2292.4	-60.9
345	ok	0.08	6.19e-02	3.74e-04	12.7	12.7	12.7	12.7	-1.4	0.7	0.7	1018.4	349.4	251.7
346	ok	0.08	0.1	1.34e-04	12.7	12.7	12.7	12.7	3.3	4.8	0.9	277.9	2261.5	72.9
347	ok	0.08	0.1	1.97e-05	12.7	12.7	12.7	12.7	2.2	3.1	1.2	409.9	2197.9	103.3
348	ok	0.08	0.1	0.0	12.7	12.7	12.7	12.7	2.3	2.2	0.2	525.1	2156.8	49.6
349	ok	0.08	0.1	3.59e-05	12.7	12.7	12.7	12.7	2.1	2.5	-1.0	540.7	2161.8	-44.5
350	ok	0.08	0.1	1.05e-04	12.7	12.7	12.7	12.7	1.5	3.8	-1.8	462.3	2207.2	-95.8
351	ok	0.08	0.1	2.77e-04	12.7	12.7	12.7	12.7	1.2	5.7	-0.8	374.1	2262.8	-71.4
352	ok	0.08	0.1	1.96e-04	12.7	12.7	12.7	12.7	1.7	7.7	-2.9	342.2	2299.5	-25.3
353	ok	0.08	0.1	9.31e-04	12.7	12.7	12.7	12.7	1.3	4.4	0.7	328.0	2280.5	18.6
354	ok	0.08	0.1	7.11e-05	12.7	12.7	12.7	12.7	1.7	3.1	1.1	375.9	2243.0	93.7
355	ok	0.08	0.1	4.11e-05	12.7	12.7	12.7	12.7	1.5	2.0	0.6	489.8	2171.5	95.6
356	ok	0.08	0.1	2.66e-05	12.7	12.7	12.7	12.7	1.5	1.8	-7.58e-02	551.2	2136.8	18.0
357	ok	0.08	0.1	4.29e-05	12.7	12.7	12.7	12.7	1.7	2.3	-1.2	490.8	2155.0	-77.9
358	ok	0.08	0.1	1.03e-04	12.7	12.7	12.7	12.7	1.6	4.3	-1.8	349.9	2217.5	-98.6
359	ok	0.08	0.1	5.20e-04	12.7	12.7	12.7	12.7	1.3	6.3	-1.1	229.5	2268.6	-40.1
360	ok	0.08	0.1	2.23e-04	12.7	12.7	12.7	12.7	2.1	6.0	1.8	203.4	2281.0	57.2
361	ok	0.08	0.1	9.96e-04	12.7	12.7	12.7	12.7	1.3	5.2	0.8	193.7	2269.2	96.1
362	ok	0.08	0.1	8.71e-05	12.7	12.7	12.7	12.7	1.6	3.6	1.3	280.0	2203.2	199.6
363	ok	0.08	0.1	1.74e-05	12.7	12.7	12.7	12.7	1.4	2.2	0.4	459.9	2098.2	204.6
364	ok	0.08	0.1	1.81e-05	12.7	12.7	12.7	12.7	1.4	1.7	-2.95e-02	584.1	2026.8	119.6
365	ok	0.08	0.1	4.40e-05	12.7	12.7	12.7	12.7	1.4	1.8	-0.9	590.7	2004.8	-22.4
366	ok	0.08	0.1	6.91e-05	12.7	12.7	12.7	12.7	1.0	2.6	-1.2	477.9	2026.6	-145.4
367	ok	0.08	0.1	1.37e-04	12.7	12.7	12.7	12.7	0.2	4.2	-2.1	282.4	2083.1	-250.4
368	ok	0.08	0.1	1.89e-04	12.7	12.7	12.7	12.7	1.0	4.0	-1.0	151.6	2124.2	-333.6
369	ok	0.08	0.1	6.00e-04	12.7	12.7	12.7	12.7	13.8	7.1	4.9	285.2	1699.9	435.6
370	ok	0.08	9.59e-02	9.78e-04	12.7	12.7	12.7	12.7	-0.3	5.2	6.1	357.6	1598.5	361.7
371	ok	0.08	8.91e-02	2.24e-04	12.7	12.7	12.7	12.7	1.3	3.0	1.6	612.9	1558.7	151.5
372	ok	0.08	8.68e-02	6.07e-05	12.7	12.7	12.7	12.7	1.2	1.2	0.7	708.8	1541.1	-55.3
373	ok	0.08	9.19e-02	9.85e-05	12.7	12.7	12.7	12.7	0.9	2.4	-0.1	603.8	1573.3	-250.4

374	ok	0.08	0.1	2.62e-04	12.7	12.7	12.7	12.7	2.3	2.0	-1.0	322.4	1667.3	-358.0
375	ok	0.08	0.1	3.86e-03	12.7	12.7	12.7	12.7	-16.5	6.0	-9.9	-271.2	1767.2	-472.6
376	ok	0.08	0.1	8.59e-04	12.7	12.7	12.7	12.7	17.2	7.7	-7.6	-13.0	2011.3	-146.7
377	ok	0.08	5.97e-02	3.91e-04	12.7	12.7	12.7	12.7	-1.2	1.7	-0.1	1062.0	359.0	-23.4
378	ok	0.08	0.1	2.92e-03	12.7	12.7	12.7	12.7	-13.4	5.6	6.3	-187.2	1773.8	325.5
379	ok	0.08	9.93e-02	2.41e-04	12.7	12.7	12.7	12.7	-0.4	5.1	0.8	317.2	1727.4	218.9
380	ok	0.08	9.25e-02	1.13e-04	12.7	12.7	12.7	12.7	1.0	2.4	0.2	564.7	1637.6	90.6
381	ok	0.08	9.31e-02	9.35e-05	12.7	12.7	12.7	12.7	1.4	2.4	-1.2	576.1	1647.7	-92.1
382	ok	0.08	0.1	2.04e-04	12.7	12.7	12.7	12.7	2.5	2.6	-2.6	398.9	1722.3	-196.6
383	ok	0.08	0.1	3.31e-03	12.7	12.7	12.7	12.7	10.4	5.1	-2.9	318.8	1808.2	-162.2
384	ok	0.08	0.1	9.40e-04	12.7	12.7	12.7	12.7	-1.4	18.0	8.9	27.0	2016.3	93.1
385	ok	0.08	0.1	5.13e-03	12.7	12.7	12.7	12.7	-16.0	0.6	17.2	-211.2	1788.0	249.1
386	ok	0.08	0.1	3.98e-04	12.7	12.7	12.7	12.7	0.4	2.6	-0.2	203.6	1762.0	210.8
387	ok	0.08	9.47e-02	1.25e-04	12.7	12.7	12.7	12.7	0.3	1.9	0.7	481.1	1659.0	178.4
388	ok	0.08	9.13e-02	6.61e-05	12.7	12.7	12.7	12.7	0.8	1.4	0.2	604.3	1624.7	26.6
389	ok	0.08	9.34e-02	3.77e-05	12.7	12.7	12.7	12.7	1.2	2.4	-1.1	509.4	1640.5	-151.6
390	ok	0.08	0.1	2.65e-04	12.7	12.7	12.7	12.7	3.0	2.3	-2.7	232.0	1727.9	-229.3
391	ok	0.08	0.1	4.55e-03	12.7	12.7	12.7	12.7	-16.7	6.7	-14.7	-291.2	1789.8	-305.0
392	ok	0.08	0.1	7.75e-04	12.7	12.7	12.7	12.7	1.5	22.0	8.6	-115.3	2069.8	156.4
393	ok	0.08	0.1	6.13e-03	12.7	12.7	12.7	12.7	-21.7	2.3	18.9	-494.0	1772.8	390.5
394	ok	0.08	0.1	3.75e-04	12.7	12.7	12.7	12.7	2.5	1.1	1.3	80.1	1727.7	362.9
395	ok	0.08	9.52e-02	5.78e-05	12.7	12.7	12.7	12.7	0.7	2.5	0.9	451.2	1596.9	339.8
396	ok	0.08	8.86e-02	3.97e-05	12.7	12.7	12.7	12.7	1.0	1.4	0.2	677.3	1542.0	172.7
397	ok	0.08	8.61e-02	3.87e-05	12.7	12.7	12.7	12.7	1.3	1.7	-1.1	701.6	1528.8	-39.2
398	ok	0.08	9.05e-02	2.19e-04	12.7	12.7	12.7	12.7	1.5	1.8	-1.8	539.0	1553.2	-221.6
399	ok	0.08	9.72e-02	1.46e-03	12.7	12.7	12.7	12.7	4.3	3.0	-2.2	336.3	1600.2	-338.3
400	ok	0.08	0.1	8.78e-04	12.7	12.7	12.7	12.7	10.8	7.3	-3.3	265.0	1699.4	-430.9
401	ok	0.08	6.96e-02	3.64e-03	12.7	12.7	12.7	12.7	22.1	-4.8	-14.9	347.1	1122.5	226.2
402	ok	0.08	6.75e-02	2.89e-03	12.7	12.7	12.7	12.7	10.3	7.5	-12.1	495.5	1062.3	236.3
403	ok	0.08	6.26e-02	4.51e-04	12.7	12.7	12.7	12.7	1.5	8.7	1.4	787.8	1019.6	165.6
404	ok	0.08	5.56e-02	1.80e-04	12.7	12.7	12.7	12.7	-0.2	2.2	0.5	865.7	962.6	-57.7
405	ok	0.08	6.59e-02	2.73e-04	12.7	12.7	12.7	12.7	-1.3	4.4	-8.56e-03	720.7	973.2	-298.8
406	ok	0.08	7.75e-02	1.50e-03	12.7	12.7	12.7	12.7	-3.00e-02	25.5	2.0	382.7	1205.7	-377.5
407	ok	0.08	9.93e-02	1.02e-02	12.7	12.7	12.7	12.7	-23.0	27.8	3.4	-741.5	1384.1	-501.2
408	ok	0.08	9.77e-02	4.97e-03	12.7	12.7	12.7	12.7	21.8	3.6	3.2	-907.0	1648.0	-73.5
409	ok	0.08	4.97e-02	2.21e-03	12.7	12.7	12.7	12.7	-1.4	13.0	1.3	796.0	444.5	-199.2
410	ok	0.08	9.36e-02	9.90e-03	12.7	12.7	12.7	12.7	-20.5	25.9	-0.5	-532.0	1364.1	405.5
411	ok	0.08	7.14e-02	1.60e-03	12.7	12.7	12.7	12.7	-1.1	21.4	-3.5	418.4	1209.9	179.8
412	ok	0.08	5.79e-02	2.75e-04	12.7	12.7	12.7	12.7	-1.4	3.8	-0.1	669.7	1001.9	99.0
413	ok	0.08	5.92e-02	1.89e-04	12.7	12.7	12.7	12.7	-0.6	3.4	-0.1	674.1	1010.1	-125.3
414	ok	0.08	7.23e-02	1.04e-03	12.7	12.7	12.7	12.7	1.9	18.6	-0.6	439.3	1190.5	-249.5
415	ok	0.08	9.21e-02	6.58e-03	12.7	12.7	12.7	12.7	-12.2	20.8	0.3	-413.6	1360.6	-316.5
416	ok	0.08	9.98e-02	3.13e-03	12.7	12.7	12.7	12.7	33.7	23.8	7.0	-101.7	1659.8	362.5
417	ok	0.08	8.99e-02	7.81e-03	12.7	12.7	12.7	12.7	-24.2	-17.9	11.1	-1068.8	1089.3	463.1
418	ok	0.08	6.78e-02	1.33e-03	12.7	12.7	12.7	12.7	0.2	21.2	2.6	84.8	1003.7	444.7
419	ok	0.08	6.17e-02	3.52e-04	12.7	12.7	12.7	12.7	-0.7	4.7	1.8	548.5	978.8	251.0
420	ok	0.08	5.60e-02	1.99e-04	12.7	12.7	12.7	12.7	-0.4	0.7	0.6	718.4	993.5	29.7
421	ok	0.08	6.07e-02	1.83e-04	12.7	12.7	12.7	12.7	-0.3	3.6	-0.1	595.7	998.6	-197.5
422	ok	0.08	7.17e-02	1.26e-03	12.7	12.7	12.7	12.7	1.8	21.9	0.1	235.3	1173.1	-284.0
423	ok	0.08	0.1	8.40e-03	12.7	12.7	12.7	12.7	-16.3	22.9	2.2	-855.9	1386.9	-275.6
424	ok	0.08	0.1	3.54e-03	12.7	12.7	12.7	12.7	38.4	24.0	-0.3	-420.3	1707.0	459.8
425	ok	0.08	0.1	7.63e-03	12.7	12.7	12.7	12.7	-27.8	-23.1	14.2	-1414.8	887.9	730.2
426	ok	0.08	7.33e-02	1.08e-03	12.7	12.7	12.7	12.7	1.2	25.5	2.9	-25.2	1023.4	573.6
427	ok	0.08	6.86e-02	2.94e-04	12.7	12.7	12.7	12.7	-0.4	4.8	1.5	518.4	949.1	431.9
428	ok	0.08	6.23e-02	1.90e-04	12.7	12.7	12.7	12.7	5.56e-02	1.2	0.6	823.2	955.2	209.1
429	ok	0.08	5.48e-02	1.65e-04	12.7	12.7	12.7	12.7	0.3	2.3	-0.8	860.5	955.7	-44.8
430	ok	0.08	6.59e-02	8.37e-04	12.7	12.7	12.7	12.7	2.2	10.5	-3.1	685.9	987.6	-287.7
431	ok	0.08	6.57e-02	3.40e-03	12.7	12.7	12.7	12.7	14.4	8.5	9.8	403.1	1059.1	-269.3
432	ok	0.08	7.20e-02	3.43e-03	12.7	12.7	12.7	12.7	21.7	-1.6	16.6	448.2	1198.1	-196.8
433	ok	0.08	5.67e-02	5.09e-03	12.7	12.7	12.7	12.7	3.4	14.6	3.1	501.2	351.6	374.8
434	ok	0.08	5.41e-02	1.59e-03	12.7	12.7	12.7	12.7	-1.7	9.2	-0.7	934.1	444.3	122.2
435	ok	0.08	6.05e-02	4.80e-04	12.7	12.7	12.7	12.7	-1.8	1.5	-0.3	1065.7	358.6	-88.7
436	ok	0.08	5.88e-02	8.55e-04	12.7	12.7	12.7	12.7	-1.9	2.4	-0.6	885.9	341.0	-335.6
437	ok	0.08	4.43e-02	5.03e-03	12.7	12.7	12.7	12.7	-2.2	-2.4	-5.5	306.9	136.1	-559.8
438	ok	0.08	8.89e-02	1.13e-02	12.7	12.7	12.7	12.7	15.7	-32.7	-20.0	-620.6	-812.9	-849.0
439	ok	0.08	6.39e-02	5.83e-03	12.7	12.7	12.7	12.7	-4.8	-17.9	-9.1	37.5	-482.1	-456.3
440	ok	0.08	6.29e-02	8.54e-03	12.7	12.7	12.7	12.7	14.3	-22.7	15.5	-377.3	-533.5	640.5
441	ok	0.08	3.63e-02	4.16e-03	12.7	12.7	12.7	12.7	-2.8	-1.4	5.0	407.0	185.0	330.6
442	ok	0.08	4.77e-02	8.53e-04	12.7	12.7	12.7	12.7	-2.4	1.7	0.6	829.7	341.8	90.0
443	ok	0.08	4.89e-02	5.76e-04	12.7	12.7	12.7	12.7	-2.3	1.7	0.6	831.1	351.1	-135.9
444	ok	0.08	3.78e-02	3.92e-03	12.7	12.7	12.7	12.7	-1.8	2.7	1.09e-02	390.3	285.4	-290.4
445	ok	0.08	6.68e-02	9.26e-03	12.7	12.7	12.7	12.7	15.1	-25.8	-17.5	-397.5	-679.3	-614.4
447	ok	0.08	2.97e-02	2.54e-03	12.7	12.7	12.7	12.7	-9.3	-2.3	-3.5	234.9	-342.2	125.1
448	ok	0.08	2.52e-02	3.19e-03	12.7	12.7	12.7	12.7	-10.0	-11.8	4.2	138.2	-428.7	-39.7
449	ok	0.08	5.89e-02	2.61e-03	12.7	12.7	12.7	12.7	14.9	17.9	5.9	154.7	631.8	131.6
450	ok	0.08	8.09e-02	1.29e-03	12.7	12.7	12.7	12.7	-6.3	3.8	-1.76e-02	-131.0	1343.9	174.3

451	ok	0.08	0.1	2.21e-04	12.7	12.7	12.7	12.7	-1.1	3.9	-0.4	-34.2	1982.4	160.0
452	ok	0.08	0.1	2.94e-05	12.7	12.7	12.7	12.7	-9.05e-02	3.2	-0.1	-21.4	2364.4	115.5
453	ok	0.08	0.1	4.31e-05	12.7	12.7	12.7	12.7	2.04e-02	2.5	-6.56e-02	-18.2	2602.1	72.5
454	ok	0.08	0.2	4.50e-05	12.7	12.7	12.7	12.7	1.68e-02	2.2	-2.75e-02	-17.2	2723.7	32.1
455	ok	0.08	0.2	4.84e-05	12.7	12.7	12.7	12.7	1.11e-02	2.1	1.49e-02	-17.2	2743.1	-17.2
456	ok	0.08	0.1	6.14e-05	12.7	12.7	12.7	12.7	1.59e-02	2.4	5.52e-02	-17.7	2663.2	-56.8
457	ok	0.08	0.1	5.11e-05	12.7	12.7	12.7	12.7	-9.38e-02	2.9	0.1	-20.5	2474.2	-99.2
458	ok	0.08	0.1	2.32e-04	12.7	12.7	12.7	12.7	-1.2	3.5	0.5	-34.7	2154.8	-144.4
459	ok	0.08	9.34e-02	1.57e-03	12.7	12.7	12.7	12.7	-8.0	2.8	1.5	-155.5	1598.5	-152.1
460	ok	0.08	8.00e-02	2.48e-03	12.7	12.7	12.7	12.7	14.6	19.0	-9.6	222.3	998.7	-270.9
461	ok	0.08	2.95e-02	2.67e-03	12.7	12.7	12.7	12.7	-5.5	-7.3	7.3	90.2	-288.1	-148.1
462	ok	0.08	2.51e-02	2.67e-03	12.7	12.7	12.7	12.7	-11.6	-6.7	-3.2	110.4	-377.3	44.8
463	ok	0.08	6.75e-02	2.03e-03	12.7	12.7	12.7	12.7	12.7	24.3	-8.3	192.4	511.9	-170.1
464	ok	0.08	8.25e-02	1.65e-03	12.7	12.7	12.7	12.7	-7.5	4.3	-5.44e-02	-146.5	1329.0	-159.8
465	ok	0.08	0.1	2.39e-04	12.7	12.7	12.7	12.7	-1.2	2.9	0.4	-34.9	1985.6	-158.5
466	ok	0.08	0.1	6.89e-05	12.7	12.7	12.7	12.7	-0.1	2.3	0.1	-21.4	2371.3	-115.1
467	ok	0.08	0.1	9.96e-05	12.7	12.7	12.7	12.7	9.06e-03	1.7	6.74e-02	-18.2	2610.1	-72.1
468	ok	0.08	0.2	1.13e-04	12.7	12.7	12.7	12.7	1.52e-02	1.4	2.66e-02	-17.2	2732.0	-31.7
469	ok	0.08	0.2	1.15e-04	12.7	12.7	12.7	12.7	9.49e-03	1.3	-1.46e-02	-17.2	2751.3	17.5
470	ok	0.08	0.2	1.20e-04	12.7	12.7	12.7	12.7	5.20e-03	1.5	-5.88e-02	-17.8	2670.8	57.2
471	ok	0.08	0.1	1.03e-04	12.7	12.7	12.7	12.7	-0.1	1.9	-0.1	-20.7	2480.5	99.8
472	ok	0.08	0.1	2.66e-04	12.7	12.7	12.7	12.7	-1.3	2.2	-0.5	-36.2	2157.9	144.6
473	ok	0.08	9.32e-02	1.83e-03	12.7	12.7	12.7	12.7	-9.4	2.4	-1.4	-176.1	1582.6	144.5
474	ok	0.08	8.64e-02	2.07e-03	12.7	12.7	12.7	12.7	16.8	24.9	11.6	266.7	1005.0	288.7
475	ok	0.08	2.49e-02	3.06e-03	12.7	12.7	12.7	12.7	-6.8	-9.3	6.1	-403.7	253.6	58.6
476	ok	0.08	0.1	5.29e-03	12.7	12.7	12.7	12.7	13.6	-4.6	-3.9	-1882.9	873.4	278.6
477	ok	0.08	9.37e-02	6.34e-03	12.7	12.7	12.7	12.7	-3.3	-7.7	2.3	-1628.0	697.7	311.0
478	ok	0.08	0.1	2.31e-03	12.7	12.7	12.7	12.7	-1.4	4.3	-0.6	-1985.1	772.9	-227.4
479	ok	0.08	3.39e-02	4.41e-03	12.7	12.7	12.7	12.7	-19.1	-6.6	-8.0	-556.7	197.8	-118.5
480	ok	0.08	9.14e-02	1.67e-03	12.7	12.7	12.7	12.7	14.1	13.4	-6.2	-1586.4	251.8	-200.3
481	ok	0.08	2.60e-02	2.51e-03	12.7	12.7	12.7	12.7	1.4	-11.5	4.9	-306.3	-269.8	160.6
482	ok	0.08	4.11e-02	7.23e-04	12.7	12.7	12.7	12.7	-3.1	-3.3	0.6	707.1	-91.6	135.9
483	ok	0.08	5.44e-02	8.79e-04	12.7	12.7	12.7	12.7	-4.6	-0.7	0.2	963.9	-67.2	33.9
484	ok	0.08	4.58e-02	8.75e-04	12.7	12.7	12.7	12.7	-4.3	-1.1	-1.0	793.4	-67.7	-124.7
485	ok	0.08	5.01e-02	1.42e-03	12.7	12.7	12.7	12.7	1.3	7.4	-10.5	177.9	19.0	-356.8
486	ok	0.08	0.1	9.13e-03	12.7	12.7	12.7	12.7	-18.1	-21.9	27.7	-1733.5	-369.8	550.9
487	ok	0.08	0.1	3.06e-03	12.7	12.7	12.7	12.7	2.3	5.0	-17.8	-2264.2	61.2	-375.4
488	ok	0.08	3.60e-02	2.44e-03	12.7	12.7	12.7	12.7	2.4	-8.4	8.2	-404.5	-195.8	311.6
489	ok	0.08	4.12e-02	7.54e-04	12.7	12.7	12.7	12.7	-3.0	-3.3	0.8	671.5	-85.4	219.9
490	ok	0.08	6.22e-02	8.66e-04	12.7	12.7	12.7	12.7	-4.5	-0.8	0.2	1092.1	-63.5	117.7
491	ok	0.08	6.41e-02	9.67e-04	12.7	12.7	12.7	12.7	-5.0	-1.7	-0.3	1137.1	-71.4	-37.4
492	ok	0.08	5.66e-02	1.75e-03	12.7	12.7	12.7	12.7	-3.4	-4.5	-3.6	785.5	-128.5	-155.9
493	ok	0.08	3.79e-02	2.22e-03	12.7	12.7	12.7	12.7	0.5	3.6	1.1	185.0	-140.0	120.1
494	ok	0.08	5.84e-02	1.38e-03	12.7	12.7	12.7	12.7	-4.2	-3.0	2.6	947.6	-113.0	119.4
495	ok	0.08	6.44e-02	1.00e-03	12.7	12.7	12.7	12.7	-5.1	-0.3	-0.3	1141.0	-60.2	-54.3
496	ok	0.08	5.47e-02	7.85e-04	12.7	12.7	12.7	12.7	-3.6	-1.2	-1.2	945.1	-65.8	-166.0
497	ok	0.08	4.30e-02	9.74e-04	12.7	12.7	12.7	12.7	4.8	7.6	-11.2	348.1	18.4	-404.1
498	ok	0.08	8.02e-02	7.97e-03	12.7	12.7	12.7	12.7	-9.4	-21.2	25.7	-1251.2	-346.3	413.4
499	ok	0.08	2.57e-02	2.30e-03	12.7	12.7	12.7	12.7	3.4	4.6	-2.2	-205.9	-77.6	-118.1
500	ok	0.08	6.15e-02	7.66e-03	12.7	12.7	12.7	12.7	-10.4	-23.1	-22.4	-846.0	-372.6	-390.9
501	ok	0.08	5.22e-02	7.36e-04	12.7	12.7	12.7	12.7	3.8	9.7	9.4	464.4	44.7	302.3
502	ok	0.08	5.03e-02	8.48e-04	12.7	12.7	12.7	12.7	-4.1	-0.5	1.2	886.3	-63.8	75.3
503	ok	0.08	5.07e-02	1.04e-03	12.7	12.7	12.7	12.7	-5.3	-1.1	-0.8	889.6	-68.8	-91.1
504	ok	0.08	4.64e-02	1.39e-03	12.7	12.7	12.7	12.7	-1.0	5.9	-9.1	451.7	-6.7	-312.5
505	ok	0.08	7.12e-02	7.47e-03	12.7	12.7	12.7	12.7	-15.7	-17.7	22.3	-1062.3	-300.0	414.0
506	ok	0.08	2.05e-02	2.31e-03	12.7	12.7	12.7	12.7	-1.8	-2.8	-2.9	-184.7	-236.7	-52.5
507	ok	0.08	1.90e-02	2.25e-03	12.7	12.7	12.7	12.7	-3.8	-0.5	3.2	-220.9	-195.6	62.5
508	ok	0.08	5.45e-02	1.04e-03	12.7	12.7	12.7	12.7	-5.4	-0.7	-0.3	963.7	-67.5	-34.4
509	ok	0.08	4.10e-02	8.13e-04	12.7	12.7	12.7	12.7	-3.9	-2.9	-0.6	703.3	-91.0	-134.3
510	ok	0.08	4.57e-02	1.10e-03	12.7	12.7	12.7	12.7	-5.5	-0.3	1.0	789.6	-63.6	124.1
511	ok	0.08	4.86e-02	9.54e-04	12.7	12.7	12.7	12.7	3.7	8.8	10.0	177.8	37.7	345.3
512	ok	0.08	0.1	9.63e-03	12.7	12.7	12.7	12.7	-19.4	-23.8	-28.7	-1755.3	-389.0	-562.5
513	ok	0.08	0.1	6.08e-03	12.7	12.7	12.7	12.7	14.5	-7.0	5.6	-1868.3	897.4	-285.2
514	ok	0.08	0.1	2.85e-03	12.7	12.7	12.7	12.7	2.2	4.6	17.8	-2250.4	54.5	377.2
515	ok	0.08	3.47e-02	2.10e-03	12.7	12.7	12.7	12.7	5.2	-7.7	-7.3	-398.0	-183.9	-300.2
516	ok	0.08	4.09e-02	7.98e-04	12.7	12.7	12.7	12.7	-3.7	-2.7	-0.8	665.8	-83.0	-218.2
517	ok	0.08	6.22e-02	9.59e-04	12.7	12.7	12.7	12.7	-5.0	-0.7	-0.3	1091.5	-63.7	-118.3
518	ok	0.08	6.42e-02	1.04e-03	12.7	12.7	12.7	12.7	-5.4	-1.3	0.3	1137.5	-69.2	38.1
519	ok	0.08	5.52e-02	1.35e-03	12.7	12.7	12.7	12.7	-3.1	-3.4	3.3	800.5	-111.7	161.1
520	ok	0.08	2.30e-02	2.85e-03	12.7	12.7	12.7	12.7	-9.9	-7.5	-6.3	-365.4	-60.6	-105.8
521	ok	0.08	3.35e-02	2.58e-03	12.7	12.7	12.7	12.7	-0.9	2.0	-0.7	229.2	-176.4	-125.4
522	ok	0.08	3.65e-02	5.07e-03	12.7	12.7	12.7	12.7	-23.0	-5.1	8.7	-598.3	219.7	121.9
523	ok	0.08	5.79e-02	1.10e-03	12.7	12.7	12.7	12.7	-4.0	-2.1	-2.5	963.5	-98.5	-120.8
524	ok	0.08	6.48e-02	1.17e-03	12.7	12.7	12.7	12.7	-6.1	-0.3	0.3	1146.7	-60.8	56.4
525	ok	0.08	5.50e-02	1.08e-03	12.7	12.7	12.7	12.7	-5.4	-0.4	1.1	948.3	-62.1	167.7
526	ok	0.08	4.31e-02	6.81e-04	12.7	12.7	12.7	12.7	6.4	8.2	10.8	352.4	29.5	393.5

527	ok	0.08	8.22e-02	8.33e-03	12.7	12.7	12.7	12.7	-10.7	-22.2	-26.5	-1288.3	-354.5	-419.3
528	ok	0.08	0.1	2.21e-03	12.7	12.7	12.7	12.7	-0.1	3.4	1.94e-03	-1984.3	777.1	234.4
529	ok	0.08	2.66e-02	3.38e-03	12.7	12.7	12.7	12.7	-11.3	-7.5	-6.5	-448.8	276.3	-64.0
530	ok	0.08	6.28e-02	7.69e-03	12.7	12.7	12.7	12.7	-10.1	-23.1	22.7	-878.4	-363.7	392.7
531	ok	0.08	5.08e-02	6.56e-04	12.7	12.7	12.7	12.7	7.2	7.4	-8.0	566.3	77.6	-221.9
532	ok	0.08	5.07e-02	1.23e-03	12.7	12.7	12.7	12.7	-6.2	9.56e-02	-1.0	891.0	-61.6	-77.8
533	ok	0.08	5.09e-02	1.33e-03	12.7	12.7	12.7	12.7	-6.9	-0.3	0.8	892.1	-65.4	89.1
534	ok	0.08	4.50e-02	1.04e-03	12.7	12.7	12.7	12.7	0.5	7.2	8.7	459.5	11.7	304.5
535	ok	0.08	7.35e-02	8.18e-03	12.7	12.7	12.7	12.7	-18.3	-19.7	-23.7	-1090.0	-324.5	-431.1
536	ok	0.08	9.45e-02	7.23e-03	12.7	12.7	12.7	12.7	-3.6	-9.0	-1.6	-1637.9	721.8	-325.4
537	ok	0.08	9.23e-02	1.29e-03	12.7	12.7	12.7	12.7	15.8	14.4	5.5	-1559.1	255.9	196.7
538	ok	0.08	2.52e-02	2.49e-03	12.7	12.7	12.7	12.7	3.3	-11.9	-4.3	-300.8	-268.4	-151.7
539	ok	0.08	2.04e-02	2.24e-03	12.7	12.7	12.7	12.7	-3.4	-1.0	2.5	-212.9	-207.8	42.3
540	ok	0.08	1.85e-02	2.20e-03	12.7	12.7	12.7	12.7	-5.2	1.3	-2.6	-245.6	-165.5	-49.2

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
								-41.37	-60.48	-38.17	-4065.65	-3191.54	-1193.73
	0.08	0.27	0.02	12.72	12.72	12.72	12.72	46.88	82.66	46.06	1146.71	2822.83	849.46

Nodo	Stato	Max tau daN/cm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr daN/cm	V sec daN/cm
1	ok	0.0						
3	ok	0.0						
6	ok	0.0						
9	ok	0.0						
11	ok	0.0						
13	ok	0.0						
15	ok	0.0						
17	ok	0.0						
19	ok	0.0						
21	ok	0.0						
22	ok	0.0						
23	ok	0.0						
24	ok	0.0						
25	ok	0.45						
26	ok	0.43						
27	ok	0.25						
28	ok	0.27						
29	ok	0.36						
30	ok	0.33						
31	ok	0.82						
32	ok	0.72						
33	ok	0.0						
34	ok	0.0						
35	ok	0.0						
36	ok	0.0						
37	ok	0.0						
38	ok	0.0						
39	ok	0.0						
40	ok	0.81						
41	ok	0.69						
42	ok	0.34						
43	ok	0.31						
44	ok	0.34						
45	ok	0.31						
46	ok	0.73						
47	ok	0.70						
48	ok	0.0						
49	ok	0.0						
50	ok	0.0						
51	ok	0.0						
52	ok	0.0						
53	ok	0.0						
54	ok	0.0						
55	ok	0.42						
56	ok	0.36						
57	ok	0.28						
58	ok	0.28						
59	ok	0.39						
60	ok	0.33						
61	ok	0.0						
62	ok	0.0						
63	ok	0.0						
64	ok	0.0						
65	ok	0.0						

66	ok	0.0
67	ok	0.0
68	ok	0.0
69	ok	0.0
70	ok	0.45
71	ok	0.45
72	ok	0.29
73	ok	0.26
74	ok	0.27
75	ok	0.28
76	ok	0.0
77	ok	0.0
78	ok	0.0
79	ok	0.0
80	ok	0.0
81	ok	0.0
82	ok	0.37
83	ok	0.30
84	ok	0.26
85	ok	0.32
86	ok	0.42
87	ok	0.0
88	ok	0.0
89	ok	0.36
90	ok	0.58
91	ok	0.40
92	ok	0.33
93	ok	0.33
94	ok	0.42
95	ok	0.0
96	ok	0.0
97	ok	0.0
98	ok	0.57
99	ok	0.38
100	ok	0.31
101	ok	0.36
102	ok	0.49
103	ok	0.0
104	ok	0.0
105	ok	0.0
106	ok	0.60
107	ok	0.39
108	ok	0.28
109	ok	0.27
110	ok	0.35
111	ok	0.0
112	ok	0.0
113	ok	0.29
114	ok	0.27
115	ok	0.24
116	ok	0.22
117	ok	0.25
118	ok	0.31
119	ok	0.35
120	ok	0.37
121	ok	0.28
122	ok	0.35
123	ok	0.31
124	ok	0.27
125	ok	0.27
126	ok	0.30
127	ok	0.35
128	ok	0.38
129	ok	0.41
130	ok	0.34
131	ok	0.29
132	ok	0.26
133	ok	0.28
134	ok	0.33
135	ok	0.38
136	ok	0.38
137	ok	0.41
138	ok	0.35
139	ok	0.29
140	ok	0.23
141	ok	0.22

142	ok	0.26
143	ok	0.29
144	ok	0.30
145	ok	0.19
146	ok	0.19
147	ok	0.17
148	ok	0.17
149	ok	0.18
150	ok	0.21
151	ok	0.23
152	ok	0.24
153	ok	0.32
154	ok	0.23
155	ok	0.21
156	ok	0.20
157	ok	0.20
158	ok	0.21
159	ok	0.24
160	ok	0.27
161	ok	0.28
162	ok	0.23
163	ok	0.21
164	ok	0.20
165	ok	0.21
166	ok	0.23
167	ok	0.25
168	ok	0.25
169	ok	0.27
170	ok	0.23
171	ok	0.20
172	ok	0.17
173	ok	0.17
174	ok	0.19
175	ok	0.20
176	ok	0.20
177	ok	0.12
178	ok	0.13
179	ok	0.12
180	ok	0.12
181	ok	0.12
182	ok	0.13
183	ok	0.14
184	ok	0.15
185	ok	0.0
186	ok	0.15
187	ok	0.14
188	ok	0.13
189	ok	0.13
190	ok	0.14
191	ok	0.15
192	ok	0.17
193	ok	0.18
194	ok	0.15
195	ok	0.13
196	ok	0.13
197	ok	0.14
198	ok	0.15
199	ok	0.16
200	ok	0.16
201	ok	0.17
202	ok	0.15
203	ok	0.13
204	ok	0.12
205	ok	0.12
206	ok	0.13
207	ok	0.14
208	ok	0.13
209	ok	0.09
210	ok	0.10
211	ok	0.09
212	ok	0.08
213	ok	0.07
214	ok	0.07
215	ok	0.08
216	ok	0.08
217	ok	0.0

218	ok	0.08
219	ok	0.08
220	ok	0.08
221	ok	0.07
222	ok	0.08
223	ok	0.08
224	ok	0.10
225	ok	0.11
226	ok	0.08
227	ok	0.07
228	ok	0.08
229	ok	0.08
230	ok	0.08
231	ok	0.09
232	ok	0.09
233	ok	0.10
234	ok	0.08
235	ok	0.07
236	ok	0.08
237	ok	0.08
238	ok	0.09
239	ok	0.10
240	ok	0.08
241	ok	0.08
242	ok	0.09
243	ok	0.08
244	ok	0.07
245	ok	0.06
246	ok	0.06
247	ok	0.06
248	ok	0.06
249	ok	0.0
250	ok	0.06
251	ok	0.06
252	ok	0.06
253	ok	0.06
254	ok	0.06
255	ok	0.06
256	ok	0.08
257	ok	0.09
258	ok	0.06
259	ok	0.06
260	ok	0.06
261	ok	0.06
262	ok	0.06
263	ok	0.07
264	ok	0.06
265	ok	0.08
266	ok	0.06
267	ok	0.06
268	ok	0.06
269	ok	0.07
270	ok	0.08
271	ok	0.09
272	ok	0.08
273	ok	0.09
274	ok	0.12
275	ok	0.11
276	ok	0.10
277	ok	0.10
278	ok	0.11
279	ok	0.11
280	ok	0.12
281	ok	0.0
282	ok	0.12
283	ok	0.11
284	ok	0.11
285	ok	0.11
286	ok	0.11
287	ok	0.12
288	ok	0.14
289	ok	0.15
290	ok	0.12
291	ok	0.11
292	ok	0.11
293	ok	0.11

294	ok	0.12
295	ok	0.13
296	ok	0.13
297	ok	0.14
298	ok	0.12
299	ok	0.10
300	ok	0.10
301	ok	0.10
302	ok	0.11
303	ok	0.12
304	ok	0.11
305	ok	0.16
306	ok	0.16
307	ok	0.15
308	ok	0.15
309	ok	0.15
310	ok	0.17
311	ok	0.19
312	ok	0.20
313	ok	0.43
314	ok	0.19
315	ok	0.18
316	ok	0.17
317	ok	0.17
318	ok	0.18
319	ok	0.20
320	ok	0.23
321	ok	0.24
322	ok	0.20
323	ok	0.18
324	ok	0.17
325	ok	0.18
326	ok	0.19
327	ok	0.21
328	ok	0.21
329	ok	0.23
330	ok	0.19
331	ok	0.17
332	ok	0.15
333	ok	0.15
334	ok	0.16
335	ok	0.17
336	ok	0.17
337	ok	0.24
338	ok	0.23
339	ok	0.21
340	ok	0.20
341	ok	0.22
342	ok	0.27
343	ok	0.29
344	ok	0.31
345	ok	0.27
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348	ok	0.25
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350	ok	0.27
351	ok	0.30
352	ok	0.33
353	ok	0.36
354	ok	0.29
355	ok	0.26
356	ok	0.24
357	ok	0.25
358	ok	0.29
359	ok	0.33
360	ok	0.32
361	ok	0.36
362	ok	0.30
363	ok	0.25
364	ok	0.21
365	ok	0.20
366	ok	0.23
367	ok	0.25
368	ok	0.26
369	ok	0.35

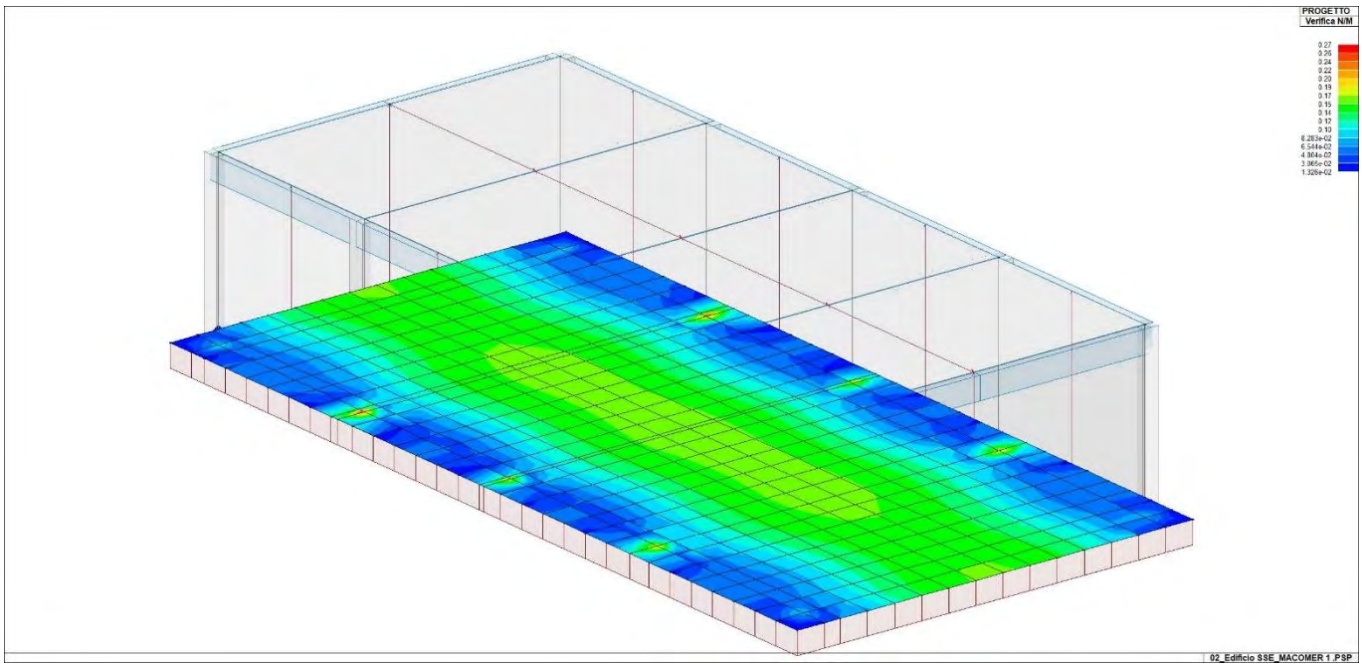
370	ok	0.31
371	ok	0.29
372	ok	0.25
373	ok	0.29
374	ok	0.41
375	ok	0.52
376	ok	0.38
377	ok	0.28
378	ok	0.49
379	ok	0.39
380	ok	0.31
381	ok	0.30
382	ok	0.39
383	ok	0.47
384	ok	0.69
385	ok	0.66
386	ok	0.47
387	ok	0.35
388	ok	0.29
389	ok	0.32
390	ok	0.44
391	ok	0.54
392	ok	0.64
393	ok	0.68
394	ok	0.49
395	ok	0.34
396	ok	0.26
397	ok	0.25
398	ok	0.32
399	ok	0.38
400	ok	0.33
401	ok	0.0
402	ok	0.0
403	ok	0.37
404	ok	0.27
405	ok	0.35
406	ok	0.62
407	ok	0.0
408	ok	0.0
409	ok	0.0
410	ok	0.0
411	ok	0.65
412	ok	0.35
413	ok	0.34
414	ok	0.56
415	ok	0.0
416	ok	0.0
417	ok	0.0
418	ok	0.0
419	ok	0.42
420	ok	0.31
421	ok	0.38
422	ok	0.63
423	ok	0.0
424	ok	0.0
425	ok	0.0
426	ok	0.0
427	ok	0.43
428	ok	0.29
429	ok	0.28
430	ok	0.38
431	ok	0.0
432	ok	0.0
433	ok	0.0
434	ok	0.43
435	ok	0.28
436	ok	0.31
437	ok	0.71
438	ok	0.0
439	ok	0.0
440	ok	0.0
441	ok	0.66
442	ok	0.31
443	ok	0.31
444	ok	0.70
445	ok	0.0

447	ok	0.0
448	ok	0.0
449	ok	0.0
450	ok	1.16
451	ok	0.84
452	ok	0.60
453	ok	0.37
454	ok	0.19
455	ok	0.13
456	ok	0.30
457	ok	0.51
458	ok	0.75
459	ok	1.08
460	ok	0.0
461	ok	0.0
462	ok	0.0
463	ok	0.0
464	ok	1.15
465	ok	0.84
466	ok	0.59
467	ok	0.37
468	ok	0.19
469	ok	0.13
470	ok	0.29
471	ok	0.51
472	ok	0.75
473	ok	1.08
474	ok	0.0
475	ok	0.0
476	ok	0.0
477	ok	0.0
478	ok	0.0
479	ok	0.0
480	ok	0.0
481	ok	0.0
482	ok	0.75
483	ok	0.22
484	ok	0.64
485	ok	1.17
486	ok	0.0
487	ok	0.0
488	ok	0.0
489	ok	1.13
490	ok	0.57
491	ok	0.32
492	ok	0.80
493	ok	0.0
494	ok	0.62
495	ok	0.23
496	ok	0.79
497	ok	1.31
498	ok	0.0
499	ok	0.0
500	ok	0.0
501	ok	0.92
502	ok	0.37
503	ok	0.43
504	ok	0.99
505	ok	0.0
506	ok	0.0
507	ok	0.0
508	ok	0.23
509	ok	0.76
510	ok	0.66
511	ok	1.16
512	ok	0.0
513	ok	0.0
514	ok	0.0
515	ok	0.0
516	ok	1.14
517	ok	0.58
518	ok	0.33
519	ok	0.80
520	ok	0.0
521	ok	0.0
522	ok	0.0

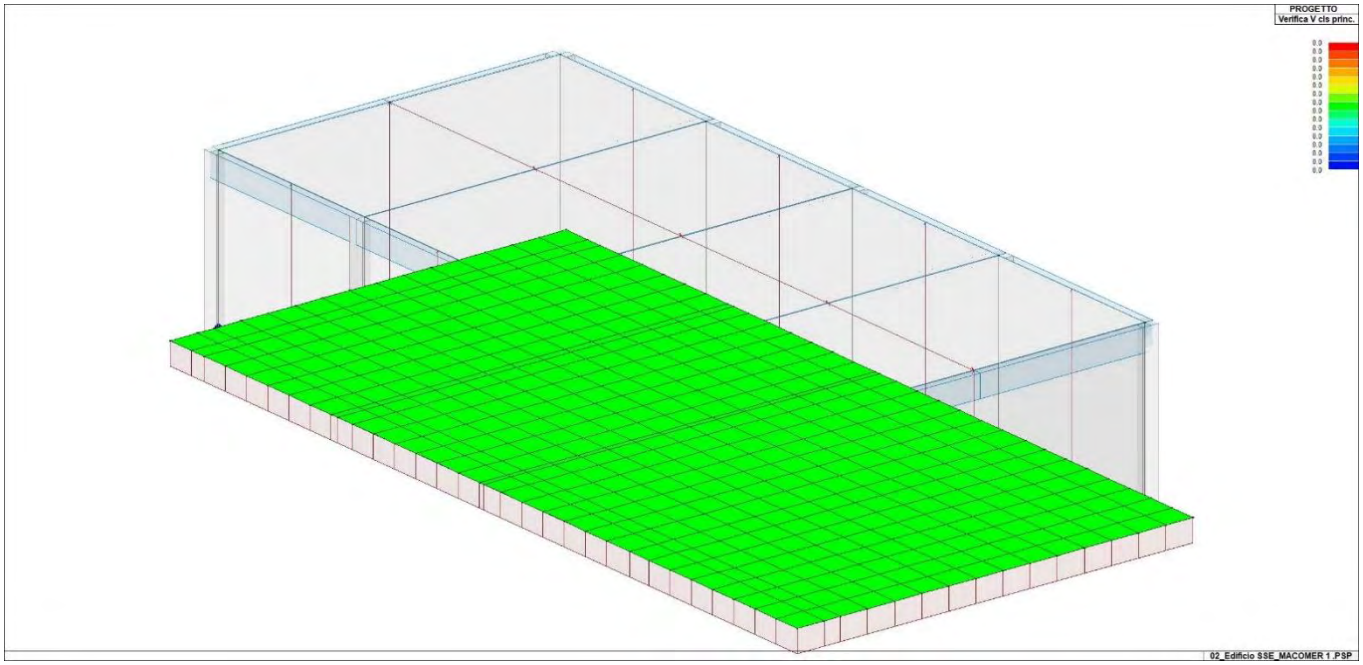
523	ok	0.62
524	ok	0.24
525	ok	0.82
526	ok	1.32
527	ok	0.0
528	ok	0.0
529	ok	0.0
530	ok	0.0
531	ok	0.95
532	ok	0.40
533	ok	0.44
534	ok	0.99
535	ok	0.0
536	ok	0.0
537	ok	0.0
538	ok	0.0
539	ok	0.0
540	ok	0.0

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	1.32						

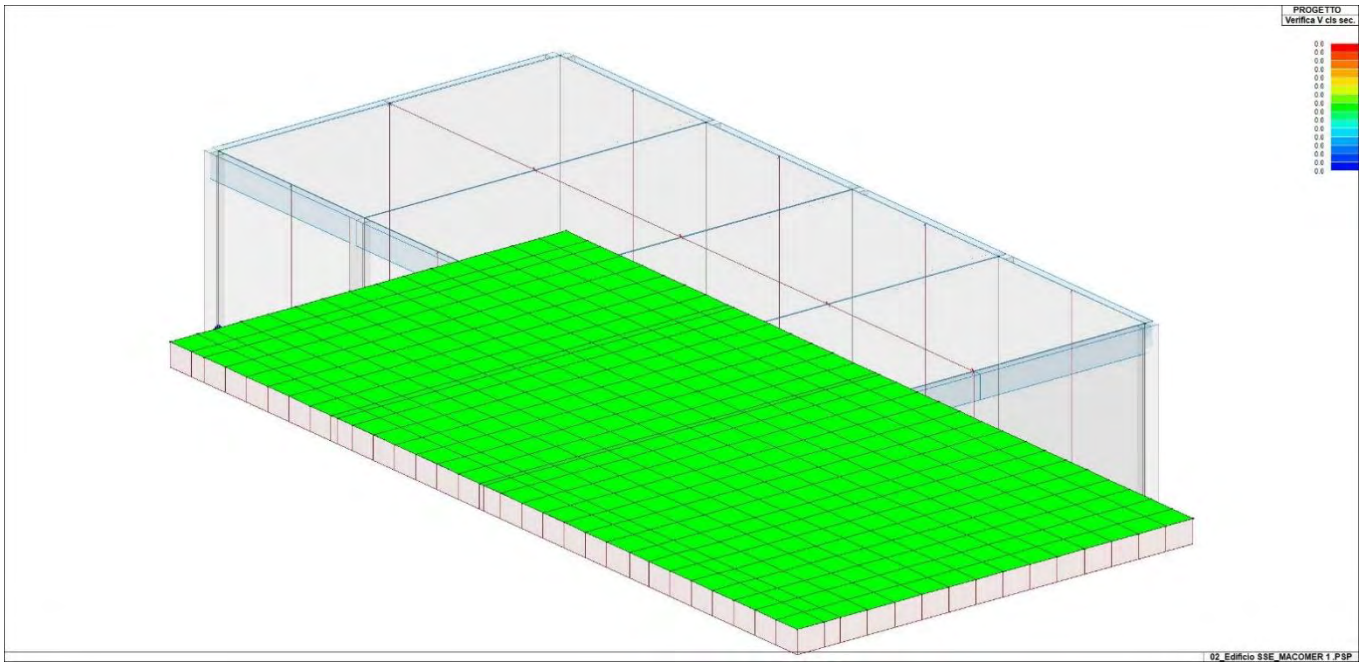
Nodo	Stato	V 6.50	V 6.53	Beta	f. a fon	f. Uout	Aw tot cm2	Asw,min cm2	n. x serie	n.ser 0(R)	n.ser 90	Rif. cmb
1	ok	0.03	0.03	1.04	2.00	0.0	0.0	0.0	0	0	0	2
3	ok	0.03	0.03	1.04	2.00	0.0	0.0	0.0	0	0	0	2
6	ok	0.09	0.06	1.10	2.00	0.0	0.0	0.0	0	0	0	2
9	ok	0.09	0.06	1.10	2.00	0.0	0.0	0.0	0	0	0	2
11	ok	0.07	0.06	1.10	2.00	0.0	0.0	0.0	0	0	0	2
13	ok	0.07	0.06	1.10	2.00	0.0	0.0	0.0	0	0	0	2
15	ok	0.09	0.06	1.10	2.00	0.0	0.0	0.0	0	0	0	2
17	ok	0.09	0.06	1.10	2.00	0.0	0.0	0.0	0	0	0	2
19	ok	0.03	0.03	1.04	2.00	0.0	0.0	0.0	0	0	0	2
21	ok	0.03	0.03	1.04	2.00	0.0	0.0	0.0	0	0	0	2



72_PRO_CA_D3_VER_NM



72_PRO_CA_D3_VER_VI



72_PRO_CA_D3_VER_VII

42. STATI LIMITE D' ESERCIZIO

42.1. LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

In tabella vengono riportati i valori di interesse per il controllo degli stati limite d'esercizio.

In particolare vengono riportati, in relazione al tipo di elemento strutturale, i risultati relativi alle tre categorie di combinazione considerate:

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [*normalizzato a 1*]	
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [*normalizzato a 1*]	
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [*normalizzato a 1*]	
wR	apertura caratteristica delle fessure in combinazioni rare	[*mm*]
wF	apertura caratteristica delle fessure in combinazioni frequenti	[*mm*]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti	[*mm*]
dR	massima deformazione in combinazioni rare	
dF	massima deformazione in combinazioni frequenti	
dP	massima deformazione in combinazioni quasi permanenti	

Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

In relazione al tipo di elemento strutturale i valori sono selezionati nel modo seguente:

pilastri	**rRfck**	**rRfyk**	**rPfck**	per sezioni significative
travi	**rRfck**	**rRfyk**	**rPfck**	per sezioni significative
	wR	**wF**	**wP**	per sezioni significative
	dR	**dF**	**dP**	massimi in campata
setti e gusci	**rRfck**	**rRfyk**	**rPfck**	massimi nei nodi dell'elemento
	wR	**wF**	**wP**	massimi nei nodi dell'elemento

Si precisa che i valori di massima deformazione per travi sono riferiti al piano verticale (piano locale 1-2 con momenti

flettenti 3-3).

Pilas.	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb
1	0.0	0.03	0.02	0.0	70,70,0	150.0	0.12	0.10	0.0	70,70,0
	300.0	0.25	0.29	0.0	70,70,0					
2	0.0	0.03	0.02	0.0	70,70,0	150.0	0.12	0.10	0.0	70,70,0
	300.0	0.25	0.29	0.0	70,70,0					
4	0.0	0.10	0.07	0.0	70,70,0	150.0	0.17	0.12	0.0	70,70,0
	300.0	0.42	0.48	0.0	70,70,0					
6	0.0	0.10	0.07	0.0	70,70,0	150.0	0.17	0.12	0.0	70,70,0
	300.0	0.42	0.48	0.0	70,70,0					
10	0.0	0.09	0.06	0.0	70,70,0	150.0	0.16	0.12	0.0	70,70,0
	300.0	0.39	0.46	0.0	70,70,0					
12	0.0	0.09	0.06	0.0	70,70,0	150.0	0.16	0.12	0.0	70,70,0
	300.0	0.39	0.46	0.0	70,70,0					
15	0.0	0.10	0.07	0.0	70,70,0	150.0	0.17	0.12	0.0	70,70,0
	300.0	0.42	0.48	0.0	70,70,0					
17	0.0	0.10	0.07	0.0	70,70,0	150.0	0.17	0.12	0.0	70,70,0
	300.0	0.42	0.48	0.0	70,70,0					
20	0.0	0.03	0.02	0.0	70,70,0	150.0	0.12	0.10	0.0	70,70,0
	300.0	0.25	0.29	0.0	70,70,0					
22	0.0	0.03	0.02	0.0	70,70,0	150.0	0.12	0.10	0.0	70,70,0
	300.0	0.25	0.29	0.0	70,70,0					

Pilas.		rRfck	rRfyk	rPfck			rRfck	rRfyk	rPfck	
		0.42	0.48	0.0						

Trave	Pos. cm	rRfck	rRfyk	rPfck	Rif. cmb	wR mm	wF mm	wP mm	Rif. cmb	dR cm	dF cm	dP cm	Rif. cmb
3	0.0	0.11	0.24	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.60	-0.48	0.0	70,72,0
	315.0	0.25	0.57	0.0	70,70,0	0.17	0.15	0.0	70,72,0				
5	0.0	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.02	-0.01	0.0	70,72,0
	172.5	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	345.0	0.03	0.06	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
7	0.0	0.29	0.70	0.0	70,70,0	0.21	0.19	0.0	70,72,0	-1.45	-1.29	0.0	70,72,0
	315.0	0.41	0.74	0.0	70,70,0	0.21	0.19	0.0	70,72,0				
	630.0	0.29	0.70	0.0	70,70,0	0.21	0.19	0.0	70,72,0				
8	0.0	0.25	0.57	0.0	70,70,0	0.17	0.15	0.0	70,72,0	-0.60	-0.48	0.0	70,72,0
	315.0	0.11	0.24	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
9	0.0	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.02	-0.01	0.0	70,72,0
	172.5	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	345.0	0.03	0.06	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
11	0.0	0.03	0.06	0.0	69,69,0	0.0	0.0	0.0	0,0,0	-4.75e-03	-4.39e-03	0.0	70,72,0
	172.5	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	345.0	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
13	0.0	0.23	0.53	0.0	70,70,0	0.16	0.0	0.0	70,0,0	-1.27	-1.14	0.0	70,72,0
	315.0	0.37	0.66	0.0	70,70,0	0.17	0.16	0.0	70,72,0				
	630.0	0.23	0.53	0.0	70,70,0	0.16	0.0	0.0	70,0,0				
14	0.0	0.03	0.06	0.0	69,69,0	0.0	0.0	0.0	0,0,0	-4.74e-03	-4.38e-03	0.0	70,72,0
	172.5	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	345.0	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
16	0.0	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-4.80e-03	-4.45e-03	0.0	70,72,0
	172.5	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	345.0	0.03	0.06	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
18	0.0	0.29	0.70	0.0	70,70,0	0.21	0.19	0.0	70,72,0	-1.45	-1.29	0.0	70,72,0
	315.0	0.41	0.74	0.0	70,70,0	0.21	0.19	0.0	70,72,0				
	630.0	0.29	0.70	0.0	70,70,0	0.21	0.19	0.0	70,72,0				
19	0.0	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-4.80e-03	-4.45e-03	0.0	70,72,0
	172.5	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	345.0	0.03	0.06	0.0	69,69,0	0.0	0.0	0.0	0,0,0				
21	0.0	0.03	0.06	0.0	69,69,0	0.0	0.0	0.0	0,0,0	0.02	0.01	0.0	70,72,0
	172.5	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	345.0	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
23	0.0	0.11	0.24	0.0	70,70,0	0.0	0.0	0.0	0,0,0	-0.60	-0.48	0.0	70,72,0
	315.0	0.25	0.57	0.0	70,70,0	0.17	0.15	0.0	70,72,0				
24	0.0	0.03	0.06	0.0	69,69,0	0.0	0.0	0.0	0,0,0	0.02	0.01	0.0	70,72,0
	172.5	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
	345.0	0.01	0.03	0.0	70,70,0	0.0	0.0	0.0	0,0,0				
25	0.0	0.25	0.57	0.0	70,70,0	0.17	0.15	0.0	70,72,0	-0.60	-0.48	0.0	70,72,0
	315.0	0.11	0.24	0.0	70,70,0	0.0	0.0	0.0	0,0,0				

Trave		rRfck	rRfyk	rPfck		wR	wF	wP		dR	dF	dP	
		0.41	0.74	0.0		0.21	0.19	0.0		0.02	0.01	0.0	

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
2	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
3	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
4	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
5	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
6	0.05	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
7	0.08	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
8	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
9	0.07	0.15	0.0	70,70,0	0.0	0.0	0.0	0,0,0
10	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
11	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
12	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
13	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
14	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
15	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
16	0.09	0.18	0.0	70,70,0	0.0	0.0	0.0	0,0,0
17	0.05	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
18	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
19	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
20	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
21	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
22	0.05	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
23	0.09	0.18	0.0	70,70,0	0.0	0.0	0.0	0,0,0
24	0.10	0.22	0.0	70,70,0	0.0	0.0	0.0	0,0,0
25	0.07	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
26	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
27	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
28	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
29	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
30	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
31	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
32	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
33	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
34	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
35	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
36	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
37	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
38	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
39	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
40	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
41	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
42	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
43	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
44	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
45	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
46	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
47	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
48	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
49	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
50	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
51	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
52	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
53	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
54	0.04	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
55	0.04	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
56	0.05	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
57	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
58	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
59	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
60	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
61	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
62	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
63	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
64	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
65	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
66	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
67	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
68	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
69	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
70	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
71	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
72	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0

73	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
74	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
75	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
76	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
77	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
78	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
79	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
80	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
81	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
82	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
83	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
84	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
85	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
86	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
87	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
88	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
89	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
90	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
91	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
92	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
93	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
94	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
95	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
96	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
97	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
98	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
99	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
100	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
101	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
102	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
103	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
104	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
105	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
106	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
107	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
108	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
109	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
110	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
111	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
112	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
113	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
114	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
115	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
116	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
117	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
118	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
119	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
120	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
121	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
122	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
123	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
124	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
125	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
126	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
127	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
128	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
129	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
130	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
131	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
132	0.08	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
133	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
134	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
135	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
136	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
137	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
138	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
139	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
140	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
141	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
142	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
143	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
144	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
145	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
146	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
147	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
148	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0

149	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
150	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
151	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
152	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
153	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
154	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
155	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
156	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
157	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
158	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
159	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
160	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
161	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
162	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
163	0.09	0.20	0.0	70,70,0	0.0	0.0	0.0	0,0,0
164	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
165	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
166	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
167	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
168	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
169	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
170	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
171	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
172	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
173	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
174	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
175	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
176	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
177	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
178	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
179	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
180	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
181	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
182	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
183	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
184	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
185	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
186	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
187	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
188	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
189	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
190	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
191	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
192	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
193	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
194	0.04	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
195	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
196	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
197	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
198	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
199	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
200	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
201	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
202	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
203	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
204	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
205	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
206	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
207	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
208	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
209	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
210	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
211	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
212	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
213	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
214	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
215	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
216	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
217	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
218	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
219	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
220	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
221	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
222	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
223	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
224	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0

225	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
226	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
227	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
228	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
229	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
230	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
231	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
232	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
233	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
234	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
235	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
236	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
237	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
238	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
239	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
240	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
241	0.07	0.14	0.0	70,70,0	0.0	0.0	0.0	0,0,0
242	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
243	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
244	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
245	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
246	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
247	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
248	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
249	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
250	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
251	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
252	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
253	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
254	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
255	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
256	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
257	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
258	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
259	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
260	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
261	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
262	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
263	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
264	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
265	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
266	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
267	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
268	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
269	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
270	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
271	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
272	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
273	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
274	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
275	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
276	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
277	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
278	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
279	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
280	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
281	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
282	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
283	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
284	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
285	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
286	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
287	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
288	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
289	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
290	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
291	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
292	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
293	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
294	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
295	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
296	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
297	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
298	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
299	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
300	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0

301	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
302	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
303	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
304	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
305	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
306	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
307	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
308	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
309	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
310	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
311	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
312	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
313	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
314	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
315	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
316	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
317	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
318	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
319	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
320	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
321	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
322	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
323	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
324	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
325	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
326	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
327	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
328	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
329	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
330	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
331	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
332	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
333	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
334	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
335	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
336	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
337	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
338	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
339	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
340	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
341	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
342	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
343	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
344	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
345	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
346	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
347	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
348	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
349	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
350	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
351	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
352	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
353	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
354	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
355	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
356	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
357	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
358	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
359	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
360	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
361	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
362	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
363	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
364	0.05	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
365	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
366	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
367	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
368	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
369	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
370	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
371	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
372	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
373	0.04	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
374	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
375	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
376	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0

377	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
378	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
379	0.08	0.16	0.0	70,70,0	0.0	0.0	0.0	0,0,0
380	0.04	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
381	0.07	0.15	0.0	70,70,0	0.0	0.0	0.0	0,0,0
382	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
383	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
384	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
385	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
386	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
387	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
388	0.08	0.16	0.0	70,70,0	0.0	0.0	0.0	0,0,0
389	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
390	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
391	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
392	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
393	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
394	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
395	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
396	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
397	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
398	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
399	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
400	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
401	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
402	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
403	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
404	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
405	0.04	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
406	0.05	0.10	0.0	70,70,0	0.0	0.0	0.0	0,0,0
407	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
408	0.06	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
409	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
410	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
411	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
412	0.07	0.13	0.0	70,70,0	0.0	0.0	0.0	0,0,0
413	0.06	0.12	0.0	70,70,0	0.0	0.0	0.0	0,0,0
414	0.05	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
415	0.04	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
416	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
417	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
418	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
419	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
420	0.05	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
421	0.08	0.20	0.0	70,70,0	0.0	0.0	0.0	0,0,0
422	0.11	0.26	0.0	70,70,0	0.0	0.0	0.0	0,0,0
423	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
424	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
425	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
426	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
427	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
428	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
429	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
430	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
431	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
432	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
433	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
434	0.04	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
435	0.08	0.20	0.0	70,70,0	0.0	0.0	0.0	0,0,0
436	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
437	0.07	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
438	0.03	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
439	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
440	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
441	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
442	0.03	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
443	0.07	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
444	0.09	0.23	0.0	70,70,0	0.0	0.0	0.0	0,0,0
445	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
446	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
447	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
448	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
449	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
450	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
451	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
452	0.05	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0

453	0.08	0.21	0.0	70,70,0	0.0	0.0	0.0	0,0,0
454	0.11	0.27	0.0	70,70,0	0.0	0.0	0.0	0,0,0
455	0.06	0.11	0.0	70,70,0	0.0	0.0	0.0	0,0,0
456	0.02	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
457	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
458	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
459	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
460	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
461	0.03	0.07	0.0	70,70,0	0.0	0.0	0.0	0,0,0
462	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
463	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
464	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
465	0.03	0.05	0.0	70,70,0	0.0	0.0	0.0	0,0,0
466	0.04	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
467	0.08	0.20	0.0	70,70,0	0.0	0.0	0.0	0,0,0
468	0.03	0.08	0.0	70,70,0	0.0	0.0	0.0	0,0,0
469	0.07	0.17	0.0	70,70,0	0.0	0.0	0.0	0,0,0
470	0.03	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
471	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
472	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
473	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
474	0.03	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
475	0.07	0.18	0.0	70,70,0	0.0	0.0	0.0	0,0,0
476	0.09	0.24	0.0	70,70,0	0.0	0.0	0.0	0,0,0
477	0.05	0.09	0.0	70,70,0	0.0	0.0	0.0	0,0,0
478	0.02	0.04	0.0	70,70,0	0.0	0.0	0.0	0,0,0
479	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0
480	0.03	0.06	0.0	70,70,0	0.0	0.0	0.0	0,0,0

Guscio	**rRfck**	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
	0.11	0.27	0.0		0.0	0.0	0.0	