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TITLE: CALCOLI PRELIMINARI FONDAZIONI AEROGENERATORI

AVAILABLE LANGUAGE: IT

**IMPIANTO EOLICO CARBONIA  
CALCOLI PRELIMINARI FONDAZIONI AEROGENERATORI**

Il Tecnico  
Ing. Leonardo Sblendido

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# 1. Relazione di calcolo

## 1.1. Premessa

La presente relazione di calcolo strutturale, in conformità al §10.1 del DM 17/01/18, ha per oggetto il calcolo preliminare dei plinti di fondazione in calcestruzzo armato degli Aerogeneratori, previsti nell'impianto di produzione dell'energia elettrica da fonte Eolica ricadente nel territorio comunale di Carbonia (SU).

## 1.2. Descrizione generale dell'opera

La struttura in esame è stata progettata con l'obiettivo di fornire supporto in qualità di fondazione ad un modello tipologico di Aerogeneratore fornito dalla committenza.

La fondazione di forma tronco-conica ha diametro 24.5 metri e altezza totale massima di 4.00 m. Maggiori informazioni sono riportate nell'immagine seguente e nell'elaborato "GRE.EEC.D.25.IT.W.15012.00.045.00\_Tipico Fondazioni Aerogeneratore".

Considerata l'assenza di indagini geotecniche sul terreno, e basandosi su di uno studio preliminare del terreno in sito si è optato preventivamente per una soluzione di fondazione su pali, non si esclude la possibilità di modificare le caratteristiche geometriche della stessa. Si rimanda tale verifica in fase esecutiva a valle di specifiche indagini geotecniche.

In questa prima fase si assume che una fondazione di plinto conico su pali sia sufficiente nei confronti delle azioni cui è soggetta e delle caratteristiche del terreno.

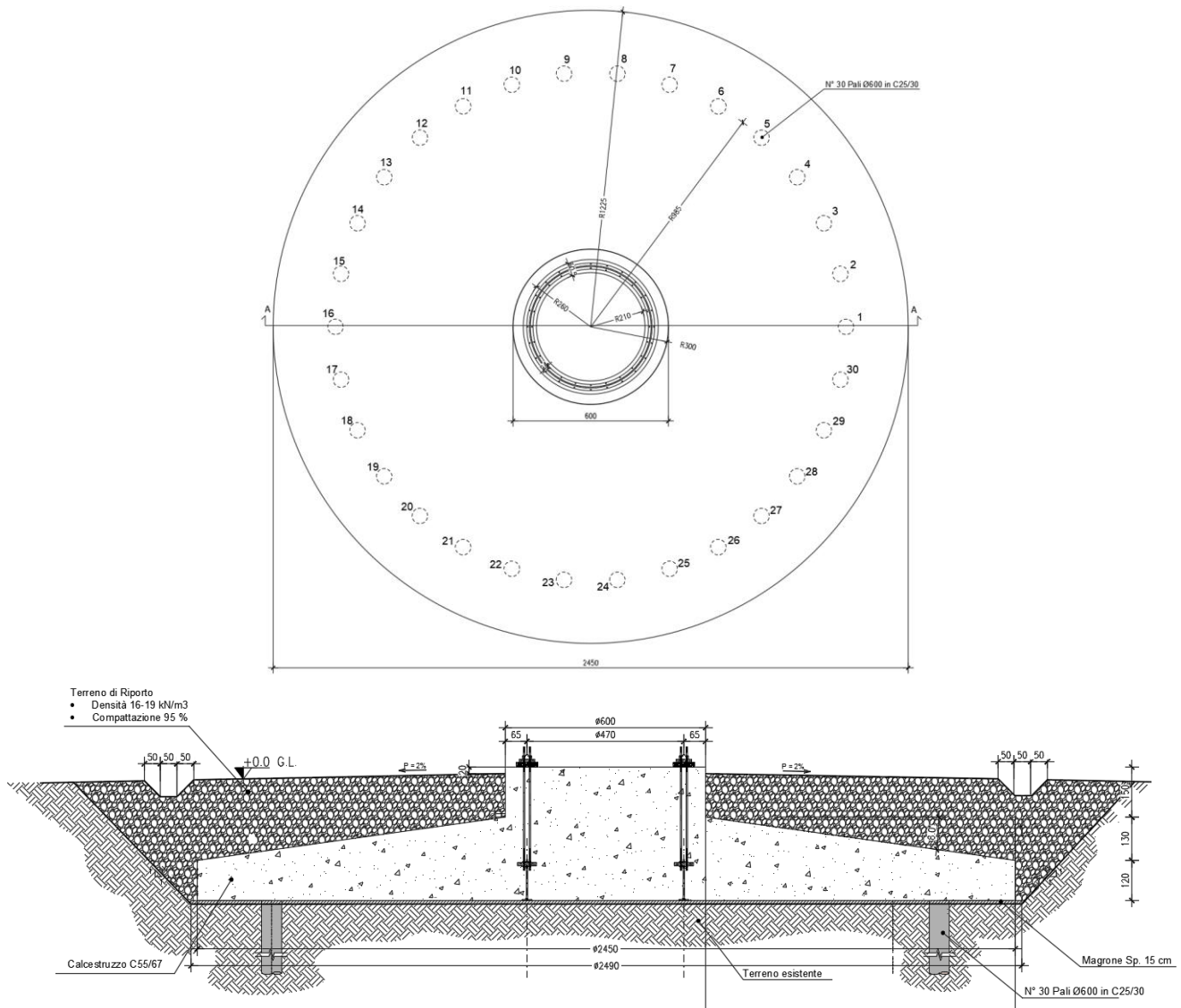


Figura 1: Tipico fondazioni aerogeneratore. Estratto elaborato  
GRE.EEC.D.25.IT.W.15012.00.051.00\_Tipico Fondazioni Aerogeneratori.



#### Descrizione generale dell'opera

Ubicazione	Comune di CARBONIA (CI) (Regione SARDEGNA)
	Località CARBONIA (CI)
	Longitudine 8.523, Latitudine 39.164
Tipo di fondazione	Superficiale

#### Parametri della struttura

Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
II	50	1.0	50.00

### 1.3. 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. 14-01-2008
Progetto muratura	D.M. 14-01-2008
<b>Azione sismica</b>	
Norma applicata per l' azione sismica	D.M. 17-01-2018

### 1.4. Azioni di progetto sulla costruzione

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

Nel prosieguo si indicano il 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:

$$\mathbf{K} * \mathbf{u} = \mathbf{F}$$

dove  $\mathbf{K}$  = matrice di rigidezza  
 $\mathbf{u}$  = vettore spostamenti nodali  
 $\mathbf{F}$  = 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)



## 1.5. Valutazione dell'Azione sismica

L'azione sismica è stata valutata in conformità alle indicazioni riportate al par. 3.2. D.M. 2018 "Norme tecniche per le costruzioni". In particolare il procedimento per la definizione degli spettri di progetto per le verifiche agli stati limite è stato il seguente:

- Definizione della vita nominale e della classe d'uso della struttura, il cui uso combinato ha portato alla definizione del periodo di riferimento dell'azione sismica;
- Individuazione, tramite latitudine e longitudine, dei parametri sismici di base  $ag$ ,  $F0$  e  $T^*c$  per gli stati limite previsti per l'analisi (SLV);
- Determinazione dei coefficienti di amplificazione stratigrafica e topografica;
- Calcolo del periodo  $Tc$  corrispondente all'inizio del tratto a velocità costante dello spettro.

I dati così calcolati sono stati utilizzati per determinare gli spettri di progetto nelle verifiche agli stati limite considerati.

L'opera in esame è stata progettata per una vita nominale pari a 50 anni e con un coefficiente d'uso pari a 1; in assenza di indagini geognostiche la caratterizzazione del suolo è stata effettuata alla base delle carte esistenti classificandolo come suolo di categoria C ed una classe topografica T1.

Si riporta di seguito una sintesi dei parametri utilizzati per la determinazione degli spettri:

Stato limite	Tr [anni]	ag/g	F0	Tc* [s]	Ss	ST	CC
SLO	30	0.019	2.610	0.273	1.5	1	1.56
SLD	50	0.024	2.670	0.296	1.5	1	1.55
SLV	475	0.050	2.880	0.340	1.5	1	1.46
SLC	975	0.060	2.980	0.372	1.5	1	1.43

## 1.6. Valutazione dell'azione del vento

L'azione del vento è stata valutata in accordo alle indicazioni riportate 3.3. D.M. 2018 "Norme tecniche per le costruzioni". In particolare sono stati individuati i parametri di base considerando il sito ove sorge il manufatto in zona 6 ed un'altezza sul mare pari a 200 m.s.l.m.

Zona vento = 6

Velocità base della zona,  $V_{b,0} = 28$  m/s (Tab. 3.3.I)

Altitudine base della zona,  $A_0 = 500$  m (Tab. 3.3.I)

Altitudine del sito,  $A_s = 200$  m

Velocità di riferimento,  $V_b = 21,95$  m/s ( $V_b = V_{b,0}$  per  $A_s \leq A_0$ )

Periodo di ritorno,  $TR = 50$  anni

$Cr = 1$  per  $TR = 50$  anni

Velocità riferita al periodo di ritorno di progetto,  $V_r = V_b Cr = 21.97$  m/s

Classe di rugosità del terreno: D [Aree prive di ostacoli o con al più rari ostacoli isolati]

Esposizione: Cat. I

( $K_r = 0,20$ ;  $Z_0 = 0,1$  m;  $Z_{min} = 5$  m)

Pressione cinetica di riferimento,  $q_b = 301,62$  N/mq

Pressione del vento,  $p = q_b C_e C_p C_d$

Coefficiente dinamico,  $C_d = 1,00$

Coefficiente di esposizione,  $C_e = \min 1,63 \max 3.70$

Coefficiente di esposizione topografica,  $C_t = 1,00$

## 1.7. 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	NO
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:

Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Codice Licenza:	Licenza non individuata

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: <a href="https://www.2si.it/it/prodotti/affidabilita/">https://www.2si.it/it/prodotti/affidabilita/</a>

Modellazione della geometria e proprietà meccaniche:	
nodi	601
elementi D2 (per aste, travi, pilastri...)	0
elementi D3 (per pareti, platee, gusci...)	600
elementi solaio	0
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	-1225.00
Xmax =	1225.00
Ymin =	-1218.22
Ymax =	1218.38



Zmin =	0.00
Zmax =	0.00
<b>Strutture verticali:</b>	
Elementi di tipo asta	NO
Pilastrini	NO
Pareti	NO
Setti (a comportamento membranale)	NO
<b>Strutture non verticali:</b>	
Elementi di tipo asta	NO
Travi	NO
Gusci	NO
Membrane	NO
<b>Orizzontamenti:</b>	
Solai con la proprietà piano rigido	NO
Solai senza la proprietà piano rigido	NO
<b>Tipo di vincoli:</b>	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	SI
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	SI
Fondazioni con elementi solidi	NO

### 1.8. 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”**.

### 1.9. 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)	NO
SLC	NO
SLD	NO
SLO	NO
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	NO
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 comprensione 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 involucri 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 anormali. 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 dimensionamento 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.) .

#### 1.10. 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.

#### 1.11. Verifiche agli stati limite di esercizio

Nel capitolo relativo alla progettazione degli elementi strutturali agli SLU 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.

#### 1.12. Relazione sui materiali

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

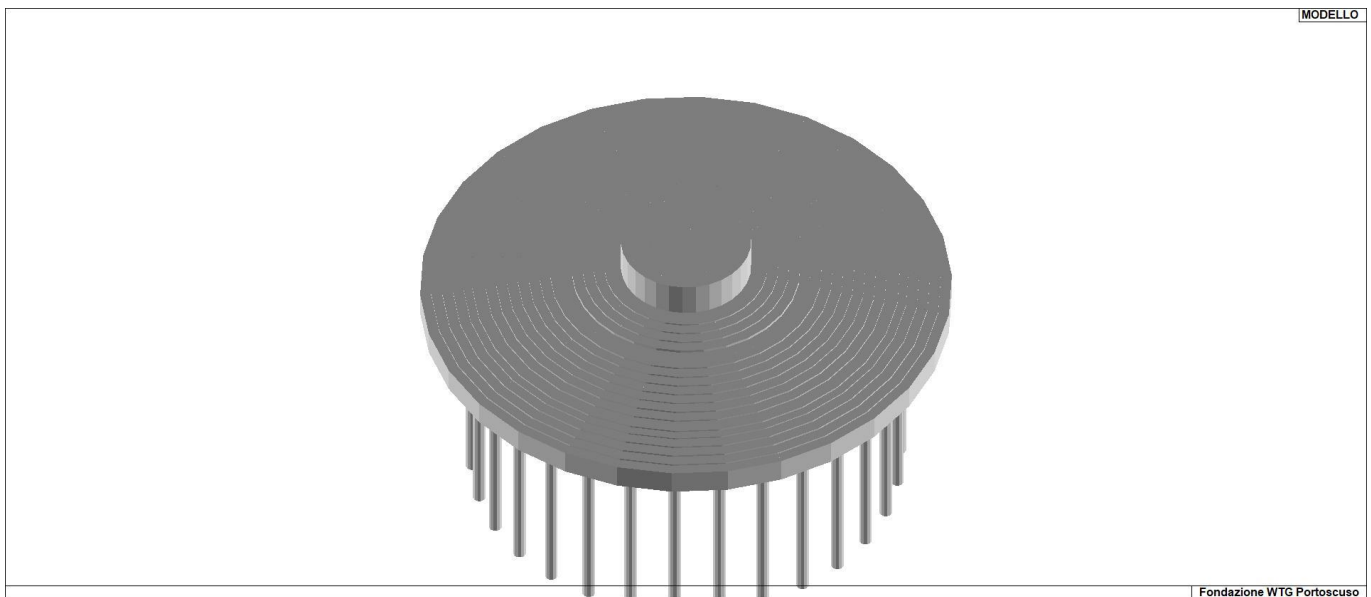


## 2. **NORMATIVA DI RIFERIMENTO**

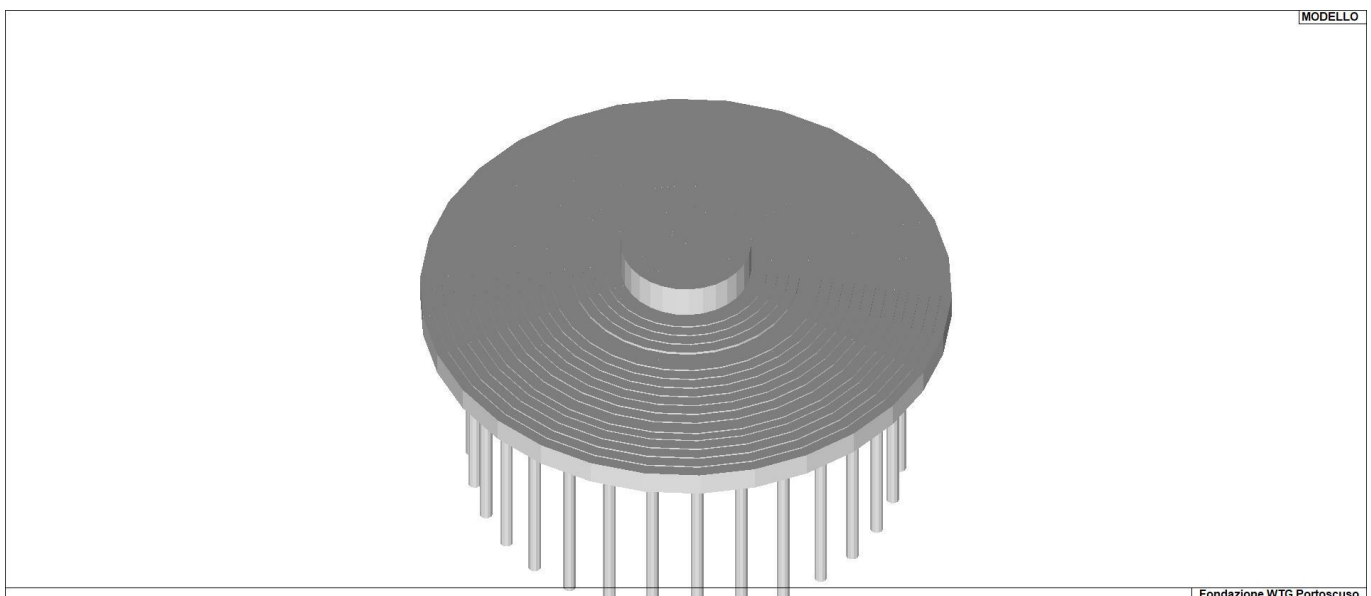
1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
2. Circolare 21/01/19, n. 7 C.S.LL.PP "Istruzioni per l'applicazione dell'aggiornamento delle Norme Tecniche delle Costruzioni di cui al decreto ministeriale 17 gennaio 2018"
3. D.Min. 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 sul 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 17.01.08 è dovuto o a progettazione simulata di edificio esistente.



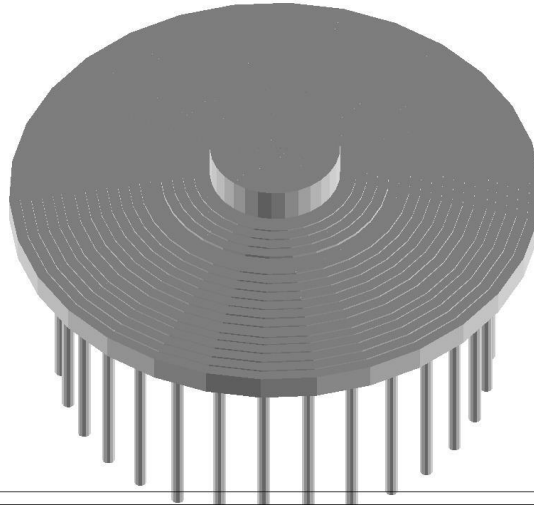
01\_INT\_VISTA\_SOLIDATA\_001



01\_INT\_VISTA\_SOLIDATA\_002



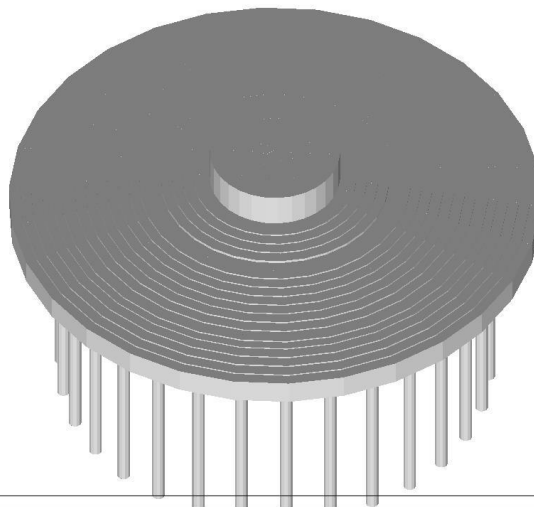
MODELLO



Fondazione WTG Portoscuso

01\_INT\_VISTA\_SOLIDATA\_003

MODELLO



Fondazione WTG Portoscuso

01\_INT\_VISTA\_SOLIDATA\_004

### 3. CARATTERISTICHE MATERIALI UTILIZZATI

#### 3.1. 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 $\nu$
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	Coefficiente 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	cement o armato		
	Resistenza Rc		resistenza a compressione 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

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

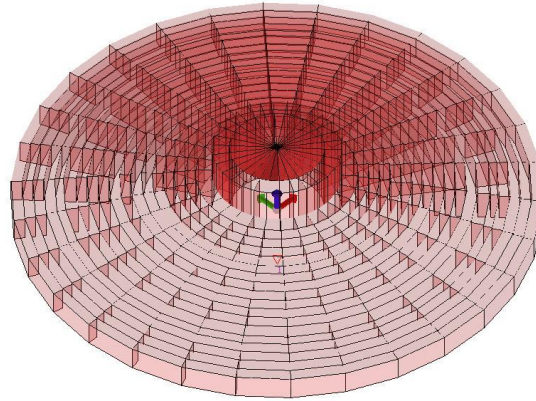
Con riferimento al **Documento di Affidabilità** "Test di validazione del software di calcolo PRO\_SAP e dei moduli aggiuntivi PRO\_SAP Modulo Geotecnico, PRO\_CAD nodi acciaio e PRO\_MST" - versione Maggio 2011, disponibile per il download sul sito [www.2si.it](http://www.2si.it), si segnalano i seguenti 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.



MODELLO



Fondazione WTG Portoscuso

11\_MOD\_MATERIALI\_D3

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
<b>Armatura</b>						
Inclinazione Ax gradi ]	[0.0					
Angolo Ax-Ay gradi ]	[90.00					
Minima tesa	0.31					
Massima tesa	5000.00					
Maglia centrale	unicaNo					
Copriferro [ cm ]	4.00					
<b>Maglia x</b>						
diametro	30					
passo	10					
diametro aggiuntivi	30					
<b>Maglia y</b>						
diametro	30					
passo	10					
diametro aggiuntivi	30					
<b>Stati limite ultimi</b>						
Tensione [daN/cm2 ]	fy4500.00					
Tipo acciaio	tipo C					





Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Coefficiente gamma <sub>s</sub>	1.15					
Coefficiente gamma <sub>c</sub>	1.50					
Verifiche con NSi costante						
Applica SLU da DIN	No					
<b>Tensioni ammissibili</b>						
Tensione amm. cls [daN/cm <sup>2</sup> ]	97.50					
Tensione amm. acciaio [daN/cm <sup>2</sup> ]	2600.00					
Rapporto omogeneizzazione N	15.00					
Massimo rapporto area compressa/tesa	1.00					
<b>Resistenza al fuoco</b>						
3- intradosso	No					
3+ estradosso	No					
Tempo esposizione R	di 15					

#### 4. MODELLAZIONE DELLE SEZIONI

##### 4.1. 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:

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

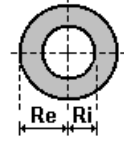
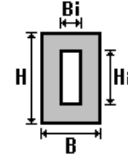
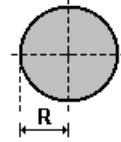
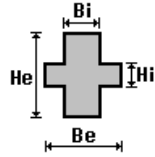
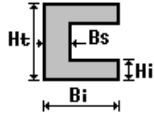
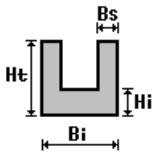
I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali 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	a L rovescia	a L di colmo	a doppio T	a quattro	a quattro



rovescia

specchiata



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 profilati.

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](http://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



## 5. MODELLAZIONE STRUTTURA: NODI

### 5.1. 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:

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	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:

<b>Nodo</b>	numero del nodo.
<b>X</b>	valore della coordinata X
<b>Y</b>	valore della coordinata Y
<b>Z</b>	valore della coordinata Z
<b>Note</b>	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).
<b>Note</b>	(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
<b>Rig. TX</b>	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

#### 5.1.1. TABELLA DATI NODI

Nodo	X	YZ	Nodo	X	Y	Z	Nodo	X	Y	Z	
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	68.0	209.1	0.0	2	110.0	190.4	0.0	3	147.2	163.4	0.0



4	178.0	129.2	0.0	5	201.0	89.4	0.0	6	215.2	45.7	0.0
7	220.0	-7.69e-02	0.0	8	215.2	-45.8	0.0	9	201.0	-89.6	0.0
10	178.0	-129.4	0.0	11	147.2	-163.6	0.0	12	110.0	-190.6	0.0
13	67.9	-209.3	0.0	14	22.9	-218.9	0.0	15	-23.1	-218.9	0.0
16	-68.1	-209.3	0.0	17	-110.1	-190.5	0.0	18	-147.3	-163.5	0.0
19	-201.0	-89.4	0.0	20	-215.2	-45.7	0.0	21	-220.0	7.74e-02	0.0
22	-215.2	45.8	0.0	23	-200.9	89.5	0.0	24	-177.9	129.3	0.0
25	-147.1	163.5	0.0	26	-109.9	190.5	0.0	27	-67.9	209.2	0.0
28	-22.9	218.7	0.0	29	23.1	218.7	0.0	30	2.40e-04	2.34e-04	0.0
31	1225.0	2.34e-04	0.0	33	1119.2	498.2	0.0	34	991.1	720.0	0.0
35	819.8	910.3	0.0	36	612.6	1060.9	0.0	37	378.7	1165.1	0.0
38	128.2	1218.4	0.0	39	-127.9	1218.4	0.0	40	-378.5	1165.1	0.0
41	1198.2	-254.8	0.0	42	1119.0	-498.3	0.0	43	990.9	-720.1	0.0
44	819.6	-910.4	0.0	45	612.4	-1060.9	0.0	46	378.4	-1165.0	0.0
47	127.9	-1218.2	0.0	48	-128.1	-1218.2	0.0	49	-378.6	-1164.9	0.0
50	-612.6	-1060.8	0.0	51	-819.7	-910.2	0.0	52	-991.1	-719.9	0.0
53	-1119.1	-498.2	0.0	54	-1198.2	-254.6	0.0	55	-1225.0	-1.85e-02	0.0
56	-1198.2	254.8	0.0	57	-1119.1	498.3	0.0	58	-991.0	720.1	0.0
59	-819.6	910.5	0.0	60	-612.4	1061.0	0.0	61	1198.3	254.6	0.0
91	-786.2	873.3	0.0	92	-587.4	1017.7	0.0	93	-363.0	1117.6	0.0
94	-122.7	1168.7	0.0	95	122.9	1168.6	0.0	96	363.2	1117.5	0.0
97	587.6	1017.6	0.0	98	786.3	873.2	0.0	99	950.7	690.6	0.0
100	1073.5	477.8	0.0	101	1149.4	244.2	0.0	102	1175.0	2.34e-04	0.0
103	1149.3	-244.4	0.0	104	1073.3	-478.0	0.0	105	950.5	-690.7	0.0
106	786.1	-873.2	0.0	107	587.4	-1017.6	0.0	108	363.0	-1117.5	0.0
109	122.7	-1168.5	0.0	110	-122.9	-1168.5	0.0	111	-363.2	-1117.4	0.0
112	-587.6	-1017.5	0.0	113	-786.3	-873.1	0.0	114	-950.6	-690.5	0.0
115	-1073.4	-477.8	0.0	116	-1149.3	-244.2	0.0	117	-1175.0	-1.77e-02	0.0
118	-1149.3	244.4	0.0	119	-1073.4	478.0	0.0	120	-950.6	690.7	0.0
121	-347.6	1070.0	0.0	122	-117.5	1118.9	0.0	123	117.7	1118.9	0.0
124	347.8	1070.0	0.0	125	562.6	974.3	0.0	126	752.9	836.0	0.0
127	910.2	661.2	0.0	128	1027.8	457.5	0.0	129	1100.5	233.8	0.0
130	1125.0	2.34e-04	0.0	131	1100.4	-234.0	0.0	132	1027.7	-457.7	0.0
133	910.0	-661.3	0.0	134	752.7	-836.1	0.0	135	562.4	-974.3	0.0
136	347.5	-1069.9	0.0	137	117.5	-1118.8	0.0	138	-117.7	-1118.8	0.0
139	-347.7	-1069.8	0.0	140	-562.6	-974.2	0.0	141	-752.8	-835.9	0.0
142	-910.2	-661.2	0.0	143	-1027.7	-457.5	0.0	144	-1100.4	-233.8	0.0
145	-1125.0	-1.69e-02	0.0	146	-1100.4	234.0	0.0	147	-1027.7	457.7	0.0
148	-910.1	661.4	0.0	149	-752.7	836.1	0.0	150	-562.5	974.4	0.0
151	-332.1	1022.5	0.0	152	-112.3	1069.2	0.0	153	112.5	1069.2	0.0
154	332.3	1022.4	0.0	155	537.6	931.0	0.0	156	719.4	798.9	0.0
157	869.8	631.8	0.0	158	982.1	437.2	0.0	159	1051.5	223.4	0.0
160	1075.0	2.34e-04	0.0	161	1051.5	-223.6	0.0	162	982.0	-437.3	0.0
163	869.6	-631.9	0.0	164	719.2	-798.9	0.0	165	537.4	-931.0	0.0
166	332.1	-1022.3	0.0	167	112.3	-1069.0	0.0	168	-112.5	-1069.0	0.0
169	-332.3	-1022.3	0.0	170	-537.5	-930.9	0.0	171	-719.3	-798.8	0.0



172	-869.7	-631.8	0.0	173	-982.1	-437.2	0.0	174	-1051.5	-223.4	0.0
175	-1075.0	-1.62e-02	0.0	176	-1051.5	223.6	0.0	177	-982.1	437.3	0.0
178	-869.7	632.0	0.0	179	-719.3	799.0	0.0	180	-537.5	931.1	0.0
181	-512.5	887.8	0.0	182	-316.7	974.9	0.0	183	-107.1	1019.5	0.0
184	107.2	1019.5	0.0	185	316.9	974.9	0.0	186	512.6	887.7	0.0
187	686.0	761.7	0.0	188	829.3	602.4	0.0	189	936.5	416.8	0.0
190	1002.6	213.0	0.0	191	1025.0	2.34e-04	0.0	192	1002.6	-213.2	0.0
193	936.3	-417.0	0.0	194	829.2	-602.5	0.0	195	685.8	-761.7	0.0
196	512.4	-887.7	0.0	197	316.6	-974.8	0.0	198	107.0	-1019.3	0.0
199	-107.2	-1019.3	0.0	200	-316.8	-974.7	0.0	201	-512.5	-887.6	0.0
202	-685.9	-761.6	0.0	203	-829.3	-602.4	0.0	204	-936.4	-416.8	0.0
205	-1002.6	-213.0	0.0	206	-1025.0	-1.54e-02	0.0	207	-1002.6	213.2	0.0
208	-936.4	417.0	0.0	209	-829.2	602.6	0.0	210	-685.8	761.8	0.0
211	-462.5	801.2	0.0	212	-285.8	879.8	0.0	213	-96.6	920.0	0.0
214	96.8	920.0	0.0	215	285.9	879.8	0.0	216	462.6	801.1	0.0
217	619.0	687.4	0.0	218	748.4	543.7	0.0	219	845.1	376.2	0.0
220	904.8	192.2	0.0	221	925.0	2.34e-04	0.0	222	904.8	-192.4	0.0
223	845.0	-376.3	0.0	224	748.3	-543.7	0.0	225	618.8	-687.4	0.0
226	462.4	-801.1	0.0	227	285.7	-879.7	0.0	228	96.6	-919.9	0.0
229	-96.8	-919.8	0.0	230	-285.9	-879.6	0.0	231	-462.5	-801.0	0.0
232	-619.0	-687.3	0.0	233	-748.3	-543.6	0.0	234	-845.0	-376.2	0.0
235	-904.8	-192.2	0.0	236	-925.0	-1.39e-02	0.0	237	-904.8	192.4	0.0
238	-845.0	376.3	0.0	239	-748.3	543.8	0.0	240	-618.9	687.5	0.0
241	-437.5	757.9	0.0	242	-270.3	832.3	0.0	243	-91.4	870.3	0.0
244	91.5	870.3	0.0	245	270.5	832.2	0.0	246	437.6	757.8	0.0
247	585.6	650.2	0.0	248	708.0	514.3	0.0	249	799.4	355.8	0.0
250	855.9	181.8	0.0	251	875.0	2.34e-04	0.0	252	855.8	-182.0	0.0
253	799.3	-356.0	0.0	254	707.8	-514.3	0.0	255	585.4	-650.3	0.0
256	437.4	-757.8	0.0	257	270.3	-832.1	0.0	258	91.4	-870.1	0.0
259	-91.5	-870.1	0.0	260	-270.4	-832.1	0.0	261	-437.5	-757.7	0.0
262	-585.5	-650.2	0.0	263	-707.9	-514.2	0.0	264	-799.4	-355.8	0.0
265	-855.9	-181.9	0.0	266	-875.0	-1.31e-02	0.0	267	-855.9	182.0	0.0
268	-799.4	356.0	0.0	269	-707.9	514.4	0.0	270	-585.5	650.3	0.0
271	-254.9	784.7	0.0	272	-86.2	820.6	0.0	273	86.3	820.5	0.0
274	255.0	784.7	0.0	275	412.6	714.5	0.0	276	552.1	613.1	0.0
277	667.5	484.9	0.0	278	753.7	335.5	0.0	279	807.0	171.5	0.0
280	825.0	2.34e-04	0.0	281	806.9	-171.6	0.0	282	753.6	-335.6	0.0
283	667.4	-485.0	0.0	284	551.9	-613.1	0.0	285	412.4	-714.5	0.0
286	254.8	-784.6	0.0	287	86.2	-820.4	0.0	288	-86.3	-820.4	0.0
289	-255.0	-784.5	0.0	290	-412.5	-714.4	0.0	291	-552.0	-613.0	0.0
292	-667.4	-484.8	0.0	293	-753.7	-335.5	0.0	294	-807.0	-171.5	0.0
295	-825.0	-1.24e-02	0.0	296	-807.0	171.6	0.0	297	-753.7	335.6	0.0
298	-667.4	485.0	0.0	299	-552.0	613.2	0.0	300	-412.5	714.6	0.0
301	-518.6	576.0	0.0	302	-387.5	671.3	0.0	303	-239.4	737.2	0.0
304	-80.9	770.8	0.0	305	81.1	770.8	0.0	306	239.6	737.1	0.0
307	387.6	671.2	0.0	308	518.7	575.9	0.0	309	627.1	455.5	0.0



310	708.1	315.2	0.0	311	758.1	161.1	0.0	312	775.0	2.34e-04	0.0
313	758.0	-161.2	0.0	314	707.9	-315.3	0.0	315	626.9	-455.6	0.0
316	518.5	-575.9	0.0	317	387.4	-671.1	0.0	318	239.4	-737.0	0.0
319	80.9	-770.7	0.0	320	-81.1	-770.7	0.0	321	-239.5	-737.0	0.0
322	-387.5	-671.1	0.0	323	-518.6	-575.8	0.0	324	-627.0	-455.5	0.0
325	-708.0	-315.2	0.0	326	-758.1	-161.1	0.0	327	-775.0	-1.16e-02	0.0
328	-758.1	161.2	0.0	329	-708.0	315.3	0.0	330	-627.0	455.6	0.0
331	-586.5	426.2	0.0	332	-485.1	538.9	0.0	333	-362.5	628.0	0.0
334	-224.0	689.6	0.0	335	-75.7	721.1	0.0	336	75.9	721.1	0.0
337	224.1	689.6	0.0	338	362.6	627.9	0.0	339	485.2	538.8	0.0
340	586.6	426.1	0.0	341	662.4	294.8	0.0	342	709.2	150.7	0.0
343	725.0	2.34e-04	0.0	344	709.1	-150.8	0.0	345	662.3	-294.9	0.0
346	586.5	-426.2	0.0	347	485.0	-538.8	0.0	348	362.4	-627.8	0.0
349	224.0	-689.5	0.0	350	75.7	-721.0	0.0	351	-75.8	-720.9	0.0
352	-224.1	-689.4	0.0	353	-362.5	-627.8	0.0	354	-485.1	-538.7	0.0
355	-586.5	-426.1	0.0	356	-662.3	-294.8	0.0	357	-709.2	-150.7	0.0
358	-725.0	-1.08e-02	0.0	359	-709.2	150.8	0.0	360	-662.3	294.9	0.0
361	-616.7	274.6	0.0	362	-546.1	396.8	0.0	363	-451.7	501.7	0.0
364	-337.5	584.7	0.0	365	-208.6	642.1	0.0	366	-70.5	671.4	0.0
367	70.6	671.4	0.0	368	208.7	642.0	0.0	369	337.6	584.6	0.0
370	451.7	501.6	0.0	371	546.2	396.7	0.0	372	616.7	274.5	0.0
373	660.3	140.3	0.0	374	675.0	2.34e-04	0.0	375	660.2	-140.4	0.0
376	616.6	-274.6	0.0	377	546.0	-396.8	0.0	378	451.6	-501.6	0.0
379	337.4	-584.5	0.0	380	208.5	-641.9	0.0	381	70.5	-671.2	0.0
382	-70.6	-671.2	0.0	383	-208.6	-641.9	0.0	384	-337.5	-584.5	0.0
385	-451.7	-501.5	0.0	386	-546.1	-396.7	0.0	387	-616.6	-274.5	0.0
388	-660.2	-140.3	0.0	389	-675.0	-1.01e-02	0.0	390	-660.3	140.4	0.0
391	-625.0	-9.30e-03	0.0	392	-611.3	130.0	0.0	393	-571.0	254.3	0.0
394	-505.6	367.4	0.0	395	-418.2	464.5	0.0	396	-312.5	541.3	0.0
397	-193.1	594.5	0.0	398	-65.3	621.7	0.0	399	65.4	621.6	0.0
400	193.2	594.5	0.0	401	312.6	541.3	0.0	402	418.3	464.5	0.0
403	505.7	367.3	0.0	404	571.0	254.2	0.0	405	611.4	129.9	0.0
406	625.0	2.34e-04	0.0	407	611.3	-130.0	0.0	408	570.9	-254.2	0.0
409	505.6	-367.4	0.0	410	418.1	-464.5	0.0	411	312.4	-541.2	0.0
412	193.1	-594.4	0.0	413	65.3	-621.5	0.0	414	-65.4	-621.5	0.0
415	-193.2	-594.3	0.0	416	-312.5	-541.2	0.0	417	-418.2	-464.4	0.0
418	-505.6	-367.3	0.0	419	-571.0	-254.2	0.0	420	-611.3	-129.9	0.0
421	-465.2	338.0	0.0	422	-384.7	427.4	0.0	423	-287.5	498.0	0.0
424	-177.7	546.9	0.0	425	-60.1	571.9	0.0	426	60.2	571.9	0.0
427	177.8	546.9	0.0	428	287.6	498.0	0.0	429	384.8	427.3	0.0
430	465.3	338.0	0.0	431	525.3	233.8	0.0	432	562.5	119.5	0.0
433	575.0	2.34e-04	0.0	434	562.4	-119.6	0.0	435	525.2	-233.9	0.0
436	465.1	-338.0	0.0	437	384.7	-427.3	0.0	438	287.4	-497.9	0.0
439	177.6	-546.8	0.0	440	60.0	-571.8	0.0	441	-60.1	-571.8	0.0
442	-177.7	-546.8	0.0	443	-287.5	-497.9	0.0	444	-384.7	-427.2	0.0
445	-465.2	-337.9	0.0	446	-525.3	-233.8	0.0	447	-562.4	-119.5	0.0





448	-575.0	-8.54e-03	0.0	449	-562.4	119.6	0.0	450	-525.3	233.9	0.0
451	-162.2	499.4	0.0	452	-54.8	522.2	0.0	453	54.9	522.2	0.0
454	162.3	499.4	0.0	455	262.6	454.7	0.0	456	351.4	390.2	0.0
457	424.8	308.6	0.0	458	479.7	213.5	0.0	459	513.6	109.1	0.0
460	525.0	2.34e-04	0.0	461	513.5	-109.2	0.0	462	479.6	-213.6	0.0
463	424.7	-308.6	0.0	464	351.2	-390.1	0.0	465	262.4	-454.6	0.0
466	162.2	-499.2	0.0	467	54.8	-522.1	0.0	468	-54.9	-522.1	0.0
469	-162.3	-499.2	0.0	470	-262.5	-454.6	0.0	471	-351.3	-390.1	0.0
472	-424.7	-308.5	0.0	473	-479.6	-213.5	0.0	474	-513.5	-109.1	0.0
475	-525.0	-7.78e-03	0.0	476	-513.5	109.2	0.0	477	-479.6	213.6	0.0
478	-424.7	308.6	0.0	479	-351.3	390.2	0.0	480	-262.5	454.7	0.0
481	-237.5	411.4	0.0	482	-146.8	451.8	0.0	483	-49.6	472.5	0.0
484	49.7	472.5	0.0	485	146.8	451.8	0.0	486	237.6	411.4	0.0
487	317.9	353.0	0.0	488	384.3	279.2	0.0	489	434.0	193.2	0.0
490	464.6	98.7	0.0	491	475.0	2.34e-04	0.0	492	464.6	-98.8	0.0
493	433.9	-193.2	0.0	494	384.2	-279.2	0.0	495	317.8	-353.0	0.0
496	237.4	-411.3	0.0	497	146.7	-451.7	0.0	498	49.6	-472.3	0.0
499	-49.7	-472.3	0.0	500	-146.8	-451.7	0.0	501	-237.5	-411.3	0.0
502	-317.8	-352.9	0.0	503	-384.3	-279.1	0.0	504	-433.9	-193.2	0.0
505	-464.6	-98.7	0.0	506	-475.0	-7.01e-03	0.0	507	-464.6	98.8	0.0
508	-433.9	193.2	0.0	509	-384.3	279.3	0.0	510	-317.8	353.1	0.0
511	-284.4	315.9	0.0	512	-212.5	368.1	0.0	513	-131.3	404.3	0.0
514	-44.4	422.8	0.0	515	44.5	422.7	0.0	516	131.4	404.3	0.0
517	212.6	368.1	0.0	518	284.4	315.9	0.0	519	343.9	249.8	0.0
520	388.3	172.8	0.0	521	415.7	88.3	0.0	522	425.0	2.34e-04	0.0
523	415.7	-88.4	0.0	524	388.2	-172.9	0.0	525	343.8	-249.8	0.0
526	284.3	-315.8	0.0	527	212.4	-368.0	0.0	528	131.3	-404.1	0.0
529	44.4	-422.6	0.0	530	-44.5	-422.6	0.0	531	-131.3	-404.1	0.0
532	-212.5	-368.0	0.0	533	-284.4	-315.8	0.0	534	-343.8	-249.8	0.0
535	-388.2	-172.8	0.0	536	-415.7	-88.3	0.0	537	-425.0	-6.25e-03	0.0
538	-415.7	88.4	0.0	539	-388.3	172.9	0.0	540	-343.8	249.9	0.0
541	-366.8	78.0	0.0	542	-375.0	-5.49e-03	0.0	543	-366.8	-77.9	0.0
544	-342.6	-152.5	0.0	545	-303.4	-220.4	0.0	546	-250.9	-278.6	0.0
547	-187.5	-324.7	0.0	548	-115.9	-356.6	0.0	549	-39.2	-372.9	0.0
550	39.2	-372.9	0.0	551	115.8	-356.6	0.0	552	187.4	-324.7	0.0
553	250.9	-278.7	0.0	554	303.3	-220.4	0.0	555	342.5	-152.5	0.0
556	366.8	-78.0	0.0	557	375.0	2.34e-04	0.0	558	366.8	77.9	0.0
559	342.6	152.5	0.0	560	303.4	220.4	0.0	561	251.0	278.7	0.0
562	187.6	324.8	0.0	563	115.9	356.7	0.0	564	39.2	373.0	0.0
565	-39.2	373.0	0.0	566	-115.9	356.7	0.0	567	-187.5	324.8	0.0
568	-250.9	278.7	0.0	569	-303.4	220.5	0.0	570	-342.6	152.6	0.0
571	-274.1	122.0	0.0	572	-242.7	176.4	0.0	573	-200.7	223.0	0.0
574	-150.0	259.8	0.0	575	-92.7	285.3	0.0	576	-31.3	298.4	0.0
577	31.4	298.4	0.0	578	92.7	285.3	0.0	579	150.0	259.8	0.0
580	200.8	222.9	0.0	581	242.7	176.3	0.0	582	274.1	122.0	0.0
583	293.5	62.3	0.0	584	300.0	2.34e-04	0.0	585	293.4	-62.4	0.0

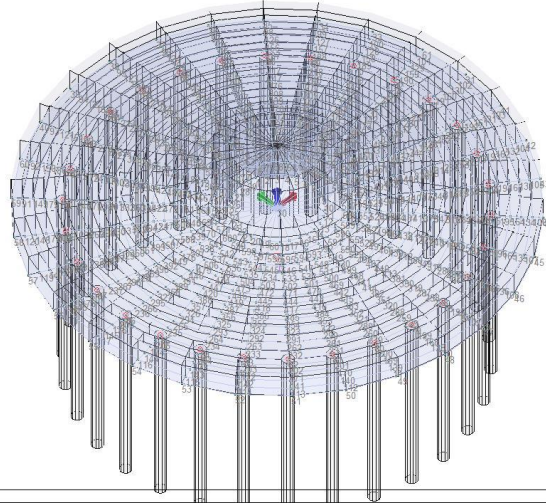


586	274.1	-122.0	0.0	587	242.7	-176.4	0.0	588	200.7	-223.0	0.0
589	150.0	-259.8	0.0	590	92.7	-285.3	0.0	591	31.3	-298.4	0.0
592	-31.4	-298.4	0.0	593	-92.7	-285.3	0.0	594	-150.0	-259.8	0.0
595	-200.8	-222.9	0.0	596	-242.7	-176.3	0.0	597	-274.1	-122.0	0.0
598	-293.4	-62.4	0.0	599	-300.0	-4.34e-03	0.0	600	-293.4	62.4	0.0
601	-178.0	-129.3	0.0								

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
cm	cm	cm	cm	daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad	
32	963.4	204.7	0.0		FS=3					
62	-492.4	853.0	0.0		FS=3					
63	-304.3	936.7	0.0		FS=3					
64	-102.9	979.5	0.0		FS=3					
65	103.0	979.5	0.0		FS=3					
66	304.4	936.7	0.0		FS=3					
67	492.5	852.9	0.0		FS=3					
68	659.1	731.9	0.0		FS=3					
69	796.9	578.9	0.0		FS=3					
70	899.8	400.5	0.0		FS=3					
71	984.9	-8.76e-02	0.0		FS=3					
72	963.4	-204.9	0.0		FS=3					
73	899.7	-400.7	0.0		FS=3					
74	796.8	-579.0	0.0		FS=3					
75	659.0	-732.0	0.0		FS=3					
76	492.4	-853.0	0.0		FS=3					
77	304.3	-936.7	0.0		FS=3					
78	102.9	-979.5	0.0		FS=3					
79	-103.0	-979.5	0.0		FS=3					
80	-304.4	-936.7	0.0		FS=3					
81	-492.5	-852.9	0.0		FS=3					
82	-659.1	-731.9	0.0		FS=3					
83	-796.9	-578.9	0.0		FS=3					
84	-899.8	-400.5	0.0		FS=3					
85	-963.4	-204.7	0.0		FS=3					
86	-984.9	2.34e-04	0.0		FS=3					
87	-963.4	204.9	0.0		FS=3					
88	-899.7	400.7	0.0		FS=3					
89	-796.8	579.0	0.0		FS=3					
90	-659.0	732.0	0.0		FS=3					



MODELLO



Fondazione WTG Portoscuso

14\_MOD\_NUMERAZIONE\_NODI

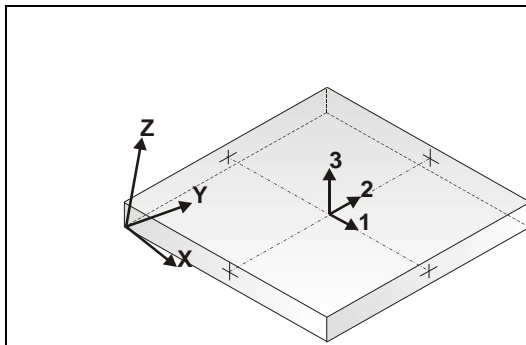
## 6. MODELLAZIONE STRUTTURA: ELEMENTI SHELL

### 6.1. LEGENDA TABELLA DATI SHELL

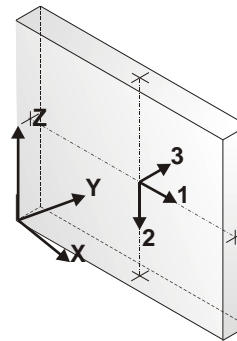
Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell.

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:

<b>Elem.</b>	numero dell'elemento
<b>Note</b>	codice di comportamento: <i>Guscio</i> (elemento guscio in elevazione non verticale) <i>Guscio fond.</i> (elemento guscio su suolo elastico) <i>Setto</i> (elemento guscio in elevazione verticale) <i>Membrana</i> (elemento guscio con comportamento membranale)
<b>Nodo I (J, K, L)</b>	numero del nodo I (J, K, L)
<b>Mat.</b>	codice del materiale assegnato all'elemento
<b>Spessore</b>	spessore dell'elemento (costante)
<b>Wink V</b>	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico verticale
<b>Wink O</b>	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](http://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
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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)
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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	Svincolo	Wink V	Wink O
					cm		daN/cm3	daN/cm3		
1	Guscio fond.	96 97	36	37	9	120.0		10.00	4.12	
2	Guscio fond.	95 96	37	38	9	120.0		10.00	4.12	
3	Guscio fond.	94 95	38	39	9	120.0		10.00	4.12	
4	Guscio fond.	93 94	39	40	9	120.0		10.00	4.12	
5	Guscio fond.	92 93	40	60	9	120.0		10.00	4.12	
6	Guscio fond.	91 92	60	59	9	120.0		10.00	4.12	
7	Guscio fond.	58120	91	59	9	120.0		10.00	4.12	
8	Guscio fond.	57119	120	58	9	120.0		10.00	4.12	



9	Guscio fond.	56118	119	57	9	120.0	10.00	4.12
10	Guscio fond.	55117	118	56	9	120.0	10.00	4.12
11	Guscio fond.	54116	117	55	9	120.0	10.00	4.12
12	Guscio fond.	53115	116	54	9	120.0	10.00	4.12
13	Guscio fond.	52114	115	53	9	120.0	10.00	4.12
14	Guscio fond.	51113	114	52	9	120.0	10.00	4.12
15	Guscio fond.	51 50	112	113	9	120.0	10.00	4.12
16	Guscio fond.	50 49	111	112	9	120.0	10.00	4.12
17	Guscio fond.	49 48	110	111	9	120.0	10.00	4.12
18	Guscio fond.	48 47	109	110	9	120.0	10.00	4.12
19	Guscio fond.	47 46	108	109	9	120.0	10.00	4.12
20	Guscio fond.	46 45	107	108	9	120.0	10.00	4.12
21	Guscio fond.	45 44	106	107	9	120.0	10.00	4.12
22	Guscio fond.	10644	43	105	9	120.0	10.00	4.12
23	Guscio fond.	10543	42	104	9	120.0	10.00	4.12
24	Guscio fond.	10442	41	103	9	120.0	10.00	4.12
25	Guscio fond.	10341	31	102	9	120.0	10.00	4.12
26	Guscio fond.	10231	61	101	9	120.0	10.00	4.12
27	Guscio fond.	10161	33	100	9	120.0	10.00	4.12
28	Guscio fond.	10033	34	99	9	120.0	10.00	4.12
29	Guscio fond.	99 34	35	98	9	120.0	10.00	4.12
30	Guscio fond.	97 98	35	36	9	120.0	10.00	4.12
31	Guscio fond.	123124	96	95	9	127.0	10.00	4.12
32	Guscio fond.	122123	95	94	9	127.0	10.00	4.12
33	Guscio fond.	121122	94	93	9	127.0	10.00	4.12
34	Guscio fond.	150121	93	92	9	127.0	10.00	4.12
35	Guscio fond.	149150	92	91	9	127.0	10.00	4.12
36	Guscio fond.	120148	149	91	9	127.0	10.00	4.12
37	Guscio fond.	119147	148	120	9	127.0	10.00	4.12
38	Guscio fond.	118146	147	119	9	127.0	10.00	4.12
39	Guscio fond.	117145	146	118	9	127.0	10.00	4.12
40	Guscio fond.	116144	145	117	9	127.0	10.00	4.12
41	Guscio fond.	115143	144	116	9	127.0	10.00	4.12
42	Guscio fond.	114142	143	115	9	127.0	10.00	4.12
43	Guscio fond.	113141	142	114	9	127.0	10.00	4.12
44	Guscio fond.	113112	140	141	9	127.0	10.00	4.12
45	Guscio fond.	112111	139	140	9	127.0	10.00	4.12
46	Guscio fond.	111110	138	139	9	127.0	10.00	4.12
47	Guscio fond.	110109	137	138	9	127.0	10.00	4.12
48	Guscio fond.	109108	136	137	9	127.0	10.00	4.12
49	Guscio fond.	108107	135	136	9	127.0	10.00	4.12
50	Guscio fond.	107106	134	135	9	127.0	10.00	4.12
51	Guscio fond.	134106	105	133	9	127.0	10.00	4.12
52	Guscio fond.	133105	104	132	9	127.0	10.00	4.12
53	Guscio fond.	132104	103	131	9	127.0	10.00	4.12
54	Guscio fond.	131103	102	130	9	127.0	10.00	4.12



55	Guscio fond.	130102	101	129	9	127.0	10.00	4.12
56	Guscio fond.	129101	100	128	9	127.0	10.00	4.12
57	Guscio fond.	128100	99	127	9	127.0	10.00	4.12
58	Guscio fond.	12799	98	126	9	127.0	10.00	4.12
59	Guscio fond.	125126	98	97	9	127.0	10.00	4.12
60	Guscio fond.	124125	97	96	9	127.0	10.00	4.12
61	Guscio fond.	157127	126	156	9	135.0	10.00	4.12
62	Guscio fond.	155156	126	125	9	135.0	10.00	4.12
63	Guscio fond.	154155	125	124	9	135.0	10.00	4.12
64	Guscio fond.	153154	124	123	9	135.0	10.00	4.12
65	Guscio fond.	152153	123	122	9	135.0	10.00	4.12
66	Guscio fond.	151152	122	121	9	135.0	10.00	4.12
67	Guscio fond.	180151	121	150	9	135.0	10.00	4.12
68	Guscio fond.	179180	150	149	9	135.0	10.00	4.12
69	Guscio fond.	148178	179	149	9	135.0	10.00	4.12
70	Guscio fond.	147177	178	148	9	135.0	10.00	4.12
71	Guscio fond.	146176	177	147	9	135.0	10.00	4.12
72	Guscio fond.	145175	176	146	9	135.0	10.00	4.12
73	Guscio fond.	144174	175	145	9	135.0	10.00	4.12
74	Guscio fond.	143173	174	144	9	135.0	10.00	4.12
75	Guscio fond.	142172	173	143	9	135.0	10.00	4.12
76	Guscio fond.	141171	172	142	9	135.0	10.00	4.12
77	Guscio fond.	141140	170	171	9	135.0	10.00	4.12
78	Guscio fond.	140139	169	170	9	135.0	10.00	4.12
79	Guscio fond.	139138	168	169	9	135.0	10.00	4.12
80	Guscio fond.	138137	167	168	9	135.0	10.00	4.12
81	Guscio fond.	137136	166	167	9	135.0	10.00	4.12
82	Guscio fond.	136135	165	166	9	135.0	10.00	4.12
83	Guscio fond.	135134	164	165	9	135.0	10.00	4.12
84	Guscio fond.	164134	133	163	9	135.0	10.00	4.12
85	Guscio fond.	163133	132	162	9	135.0	10.00	4.12
86	Guscio fond.	162132	131	161	9	135.0	10.00	4.12
87	Guscio fond.	161131	130	160	9	135.0	10.00	4.12
88	Guscio fond.	160130	129	159	9	135.0	10.00	4.12
89	Guscio fond.	159129	128	158	9	135.0	10.00	4.12
90	Guscio fond.	158128	127	157	9	135.0	10.00	4.12
91	Guscio fond.	186187	156	155	9	142.0	10.00	4.12
92	Guscio fond.	188157	156	187	9	142.0	10.00	4.12
93	Guscio fond.	189158	157	188	9	142.0	10.00	4.12
94	Guscio fond.	190159	158	189	9	142.0	10.00	4.12
95	Guscio fond.	191160	159	190	9	142.0	10.00	4.12
96	Guscio fond.	192161	160	191	9	142.0	10.00	4.12
97	Guscio fond.	193162	161	192	9	142.0	10.00	4.12
98	Guscio fond.	194163	162	193	9	142.0	10.00	4.12
99	Guscio fond.	195164	163	194	9	142.0	10.00	4.12
100	Guscio fond.	165164	195	196	9	142.0	10.00	4.12



101	Guscio fond.	166165	196	197	9	142.0	10.00	4.12
102	Guscio fond.	167166	197	198	9	142.0	10.00	4.12
103	Guscio fond.	168167	198	199	9	142.0	10.00	4.12
104	Guscio fond.	169168	199	200	9	142.0	10.00	4.12
105	Guscio fond.	170169	200	201	9	142.0	10.00	4.12
106	Guscio fond.	171170	201	202	9	142.0	10.00	4.12
107	Guscio fond.	171202	203	172	9	142.0	10.00	4.12
108	Guscio fond.	172203	204	173	9	142.0	10.00	4.12
109	Guscio fond.	173204	205	174	9	142.0	10.00	4.12
110	Guscio fond.	174205	206	175	9	142.0	10.00	4.12
111	Guscio fond.	175206	207	176	9	142.0	10.00	4.12
112	Guscio fond.	176207	208	177	9	142.0	10.00	4.12
113	Guscio fond.	177208	209	178	9	142.0	10.00	4.12
114	Guscio fond.	178209	210	179	9	142.0	10.00	4.12
115	Guscio fond.	210181	180	179	9	142.0	10.00	4.12
116	Guscio fond.	181182	151	180	9	142.0	10.00	4.12
117	Guscio fond.	182183	152	151	9	142.0	10.00	4.12
118	Guscio fond.	183184	153	152	9	142.0	10.00	4.12
119	Guscio fond.	184185	154	153	9	142.0	10.00	4.12
120	Guscio fond.	185186	155	154	9	142.0	10.00	4.12
121	Guscio fond.	65 66	185	184	9	148.0	10.00	4.12
122	Guscio fond.	66 67	186	185	9	148.0	10.00	4.12
123	Guscio fond.	67 68	187	186	9	148.0	10.00	4.12
124	Guscio fond.	69188	187	68	9	148.0	10.00	4.12
125	Guscio fond.	70189	188	69	9	148.0	10.00	4.12
126	Guscio fond.	32190	189	70	9	148.0	10.00	4.12
127	Guscio fond.	71191	190	32	9	148.0	10.00	4.12
128	Guscio fond.	72192	191	71	9	148.0	10.00	4.12
129	Guscio fond.	73193	192	72	9	148.0	10.00	4.12
130	Guscio fond.	74194	193	73	9	148.0	10.00	4.12
131	Guscio fond.	75195	194	74	9	148.0	10.00	4.12
132	Guscio fond.	196195	75	76	9	148.0	10.00	4.12
133	Guscio fond.	197196	76	77	9	148.0	10.00	4.12
134	Guscio fond.	198197	77	78	9	148.0	10.00	4.12
135	Guscio fond.	199198	78	79	9	148.0	10.00	4.12
136	Guscio fond.	200199	79	80	9	148.0	10.00	4.12
137	Guscio fond.	201200	80	81	9	148.0	10.00	4.12
138	Guscio fond.	202201	81	82	9	148.0	10.00	4.12
139	Guscio fond.	20282	83	203	9	148.0	10.00	4.12
140	Guscio fond.	20383	84	204	9	148.0	10.00	4.12
141	Guscio fond.	20484	85	205	9	148.0	10.00	4.12
142	Guscio fond.	20585	86	206	9	148.0	10.00	4.12
143	Guscio fond.	20686	87	207	9	148.0	10.00	4.12
144	Guscio fond.	20787	88	208	9	148.0	10.00	4.12
145	Guscio fond.	20888	89	209	9	148.0	10.00	4.12
146	Guscio fond.	20989	90	210	9	148.0	10.00	4.12





147	Guscio fond.	90 62	181	210	9	148.0	10.00	4.12
148	Guscio fond.	62 63	182	181	9	148.0	10.00	4.12
149	Guscio fond.	63 64	183	182	9	148.0	10.00	4.12
150	Guscio fond.	64 65	184	183	9	148.0	10.00	4.12
151	Guscio fond.	214215	66	65	9	155.0	10.00	4.12
152	Guscio fond.	215216	67	66	9	155.0	10.00	4.12
153	Guscio fond.	216217	68	67	9	155.0	10.00	4.12
154	Guscio fond.	21869	68	217	9	155.0	10.00	4.12
155	Guscio fond.	21970	69	218	9	155.0	10.00	4.12
156	Guscio fond.	22032	70	219	9	155.0	10.00	4.12
157	Guscio fond.	22171	32	220	9	155.0	10.00	4.12
158	Guscio fond.	22272	71	221	9	155.0	10.00	4.12
159	Guscio fond.	22373	72	222	9	155.0	10.00	4.12
160	Guscio fond.	22474	73	223	9	155.0	10.00	4.12
161	Guscio fond.	22575	74	224	9	155.0	10.00	4.12
162	Guscio fond.	76 75	225	226	9	155.0	10.00	4.12
163	Guscio fond.	77 76	226	227	9	155.0	10.00	4.12
164	Guscio fond.	213214	65	64	9	155.0	10.00	4.12
165	Guscio fond.	212213	64	63	9	155.0	10.00	4.12
166	Guscio fond.	211212	63	62	9	155.0	10.00	4.12
167	Guscio fond.	240211	62	90	9	155.0	10.00	4.12
168	Guscio fond.	89239	240	90	9	155.0	10.00	4.12
169	Guscio fond.	88238	239	89	9	155.0	10.00	4.12
170	Guscio fond.	87237	238	88	9	155.0	10.00	4.12
171	Guscio fond.	78 77	227	228	9	155.0	10.00	4.12
172	Guscio fond.	79 78	228	229	9	155.0	10.00	4.12
173	Guscio fond.	80 79	229	230	9	155.0	10.00	4.12
174	Guscio fond.	81 80	230	231	9	155.0	10.00	4.12
175	Guscio fond.	82 81	231	232	9	155.0	10.00	4.12
176	Guscio fond.	82232	233	83	9	155.0	10.00	4.12
177	Guscio fond.	83233	234	84	9	155.0	10.00	4.12
178	Guscio fond.	84234	235	85	9	155.0	10.00	4.12
179	Guscio fond.	85235	236	86	9	155.0	10.00	4.12
180	Guscio fond.	86236	237	87	9	155.0	10.00	4.12
181	Guscio fond.	246247	217	216	9	162.0	10.00	4.12
182	Guscio fond.	245246	216	215	9	162.0	10.00	4.12
183	Guscio fond.	244245	215	214	9	162.0	10.00	4.12
184	Guscio fond.	243244	214	213	9	162.0	10.00	4.12
185	Guscio fond.	242243	213	212	9	162.0	10.00	4.12
186	Guscio fond.	241242	212	211	9	162.0	10.00	4.12
187	Guscio fond.	270241	211	240	9	162.0	10.00	4.12
188	Guscio fond.	239269	270	240	9	162.0	10.00	4.12
189	Guscio fond.	238268	269	239	9	162.0	10.00	4.12
190	Guscio fond.	237267	268	238	9	162.0	10.00	4.12
191	Guscio fond.	236266	267	237	9	162.0	10.00	4.12
192	Guscio fond.	235265	266	236	9	162.0	10.00	4.12



193	Guscio fond.	234264	265	235	9	162.0	10.00	4.12
194	Guscio fond.	233263	264	234	9	162.0	10.00	4.12
195	Guscio fond.	232262	263	233	9	162.0	10.00	4.12
196	Guscio fond.	232231	261	262	9	162.0	10.00	4.12
197	Guscio fond.	231230	260	261	9	162.0	10.00	4.12
198	Guscio fond.	230229	259	260	9	162.0	10.00	4.12
199	Guscio fond.	229228	258	259	9	162.0	10.00	4.12
200	Guscio fond.	228227	257	258	9	162.0	10.00	4.12
201	Guscio fond.	227226	256	257	9	162.0	10.00	4.12
202	Guscio fond.	226225	255	256	9	162.0	10.00	4.12
203	Guscio fond.	255225	224	254	9	162.0	10.00	4.12
204	Guscio fond.	254224	223	253	9	162.0	10.00	4.12
205	Guscio fond.	253223	222	252	9	162.0	10.00	4.12
206	Guscio fond.	252222	221	251	9	162.0	10.00	4.12
207	Guscio fond.	251221	220	250	9	162.0	10.00	4.12
208	Guscio fond.	250220	219	249	9	162.0	10.00	4.12
209	Guscio fond.	249219	218	248	9	162.0	10.00	4.12
210	Guscio fond.	248218	217	247	9	162.0	10.00	4.12
211	Guscio fond.	274275	246	245	9	170.0	10.00	4.12
212	Guscio fond.	275276	247	246	9	170.0	10.00	4.12
213	Guscio fond.	277248	247	276	9	170.0	10.00	4.12
214	Guscio fond.	278249	248	277	9	170.0	10.00	4.12
215	Guscio fond.	279250	249	278	9	170.0	10.00	4.12
216	Guscio fond.	280251	250	279	9	170.0	10.00	4.12
217	Guscio fond.	281252	251	280	9	170.0	10.00	4.12
218	Guscio fond.	282253	252	281	9	170.0	10.00	4.12
219	Guscio fond.	283254	253	282	9	170.0	10.00	4.12
220	Guscio fond.	284255	254	283	9	170.0	10.00	4.12
221	Guscio fond.	256255	284	285	9	170.0	10.00	4.12
222	Guscio fond.	273274	245	244	9	170.0	10.00	4.12
223	Guscio fond.	272273	244	243	9	170.0	10.00	4.12
224	Guscio fond.	271272	243	242	9	170.0	10.00	4.12
225	Guscio fond.	300271	242	241	9	170.0	10.00	4.12
226	Guscio fond.	299300	241	270	9	170.0	10.00	4.12
227	Guscio fond.	269298	299	270	9	170.0	10.00	4.12
228	Guscio fond.	268297	298	269	9	170.0	10.00	4.12
229	Guscio fond.	267296	297	268	9	170.0	10.00	4.12
230	Guscio fond.	266295	296	267	9	170.0	10.00	4.12
231	Guscio fond.	265294	295	266	9	170.0	10.00	4.12
232	Guscio fond.	264293	294	265	9	170.0	10.00	4.12
233	Guscio fond.	263292	293	264	9	170.0	10.00	4.12
234	Guscio fond.	262291	292	263	9	170.0	10.00	4.12
235	Guscio fond.	262261	290	291	9	170.0	10.00	4.12
236	Guscio fond.	261260	289	290	9	170.0	10.00	4.12
237	Guscio fond.	260259	288	289	9	170.0	10.00	4.12
238	Guscio fond.	259258	287	288	9	170.0	10.00	4.12



239	Guscio fond.	258257	286	287	9	170.0	10.00	4.12
240	Guscio fond.	257256	285	286	9	170.0	10.00	4.12
241	Guscio fond.	310278	277	309	9	176.0	10.00	4.12
242	Guscio fond.	311279	278	310	9	176.0	10.00	4.12
243	Guscio fond.	312280	279	311	9	176.0	10.00	4.12
244	Guscio fond.	313281	280	312	9	176.0	10.00	4.12
245	Guscio fond.	314282	281	313	9	176.0	10.00	4.12
246	Guscio fond.	315283	282	314	9	176.0	10.00	4.12
247	Guscio fond.	316284	283	315	9	176.0	10.00	4.12
248	Guscio fond.	285284	316	317	9	176.0	10.00	4.12
249	Guscio fond.	286285	317	318	9	176.0	10.00	4.12
250	Guscio fond.	287286	318	319	9	176.0	10.00	4.12
251	Guscio fond.	288287	319	320	9	176.0	10.00	4.12
252	Guscio fond.	289288	320	321	9	176.0	10.00	4.12
253	Guscio fond.	290289	321	322	9	176.0	10.00	4.12
254	Guscio fond.	291290	322	323	9	176.0	10.00	4.12
255	Guscio fond.	291323	324	292	9	176.0	10.00	4.12
256	Guscio fond.	292324	325	293	9	176.0	10.00	4.12
257	Guscio fond.	293325	326	294	9	176.0	10.00	4.12
258	Guscio fond.	294326	327	295	9	176.0	10.00	4.12
259	Guscio fond.	309277	276	308	9	176.0	10.00	4.12
260	Guscio fond.	307308	276	275	9	176.0	10.00	4.12
261	Guscio fond.	306307	275	274	9	176.0	10.00	4.12
262	Guscio fond.	305306	274	273	9	176.0	10.00	4.12
263	Guscio fond.	304305	273	272	9	176.0	10.00	4.12
264	Guscio fond.	303304	272	271	9	176.0	10.00	4.12
265	Guscio fond.	302303	271	300	9	176.0	10.00	4.12
266	Guscio fond.	301302	300	299	9	176.0	10.00	4.12
267	Guscio fond.	298330	301	299	9	176.0	10.00	4.12
268	Guscio fond.	297329	330	298	9	176.0	10.00	4.12
269	Guscio fond.	296328	329	297	9	176.0	10.00	4.12
270	Guscio fond.	295327	328	296	9	176.0	10.00	4.12
271	Guscio fond.	338339	308	307	9	183.0	10.00	4.12
272	Guscio fond.	340309	308	339	9	183.0	10.00	4.12
273	Guscio fond.	341310	309	340	9	183.0	10.00	4.12
274	Guscio fond.	342311	310	341	9	183.0	10.00	4.12
275	Guscio fond.	343312	311	342	9	183.0	10.00	4.12
276	Guscio fond.	344313	312	343	9	183.0	10.00	4.12
277	Guscio fond.	345314	313	344	9	183.0	10.00	4.12
278	Guscio fond.	346315	314	345	9	183.0	10.00	4.12
279	Guscio fond.	347316	315	346	9	183.0	10.00	4.12
280	Guscio fond.	317316	347	348	9	183.0	10.00	4.12
281	Guscio fond.	318317	348	349	9	183.0	10.00	4.12
282	Guscio fond.	319318	349	350	9	183.0	10.00	4.12
283	Guscio fond.	320319	350	351	9	183.0	10.00	4.12
284	Guscio fond.	321320	351	352	9	183.0	10.00	4.12



285	Guscio fond.	322321	352	353	9	183.0	10.00	4.12
286	Guscio fond.	323322	353	354	9	183.0	10.00	4.12
287	Guscio fond.	323354	355	324	9	183.0	10.00	4.12
288	Guscio fond.	324355	356	325	9	183.0	10.00	4.12
289	Guscio fond.	325356	357	326	9	183.0	10.00	4.12
290	Guscio fond.	326357	358	327	9	183.0	10.00	4.12
291	Guscio fond.	327358	359	328	9	183.0	10.00	4.12
292	Guscio fond.	328359	360	329	9	183.0	10.00	4.12
293	Guscio fond.	329360	331	330	9	183.0	10.00	4.12
294	Guscio fond.	330331	332	301	9	183.0	10.00	4.12
295	Guscio fond.	332333	302	301	9	183.0	10.00	4.12
296	Guscio fond.	333334	303	302	9	183.0	10.00	4.12
297	Guscio fond.	334335	304	303	9	183.0	10.00	4.12
298	Guscio fond.	335336	305	304	9	183.0	10.00	4.12
299	Guscio fond.	336337	306	305	9	183.0	10.00	4.12
300	Guscio fond.	337338	307	306	9	183.0	10.00	4.12
301	Guscio fond.	369370	339	338	9	190.0	10.00	4.12
302	Guscio fond.	368369	338	337	9	190.0	10.00	4.12
303	Guscio fond.	367368	337	336	9	190.0	10.00	4.12
304	Guscio fond.	366367	336	335	9	190.0	10.00	4.12
305	Guscio fond.	365366	335	334	9	190.0	10.00	4.12
306	Guscio fond.	364365	334	333	9	190.0	10.00	4.12
307	Guscio fond.	363364	333	332	9	190.0	10.00	4.12
308	Guscio fond.	331362	363	332	9	190.0	10.00	4.12
309	Guscio fond.	360361	362	331	9	190.0	10.00	4.12
310	Guscio fond.	359390	361	360	9	190.0	10.00	4.12
311	Guscio fond.	358389	390	359	9	190.0	10.00	4.12
312	Guscio fond.	357388	389	358	9	190.0	10.00	4.12
313	Guscio fond.	356387	388	357	9	190.0	10.00	4.12
314	Guscio fond.	355386	387	356	9	190.0	10.00	4.12
315	Guscio fond.	354385	386	355	9	190.0	10.00	4.12
316	Guscio fond.	354353	384	385	9	190.0	10.00	4.12
317	Guscio fond.	353352	383	384	9	190.0	10.00	4.12
318	Guscio fond.	352351	382	383	9	190.0	10.00	4.12
319	Guscio fond.	351350	381	382	9	190.0	10.00	4.12
320	Guscio fond.	350349	380	381	9	190.0	10.00	4.12
321	Guscio fond.	349348	379	380	9	190.0	10.00	4.12
322	Guscio fond.	371340	339	370	9	190.0	10.00	4.12
323	Guscio fond.	372341	340	371	9	190.0	10.00	4.12
324	Guscio fond.	373342	341	372	9	190.0	10.00	4.12
325	Guscio fond.	374343	342	373	9	190.0	10.00	4.12
326	Guscio fond.	375344	343	374	9	190.0	10.00	4.12
327	Guscio fond.	376345	344	375	9	190.0	10.00	4.12
328	Guscio fond.	377346	345	376	9	190.0	10.00	4.12
329	Guscio fond.	378347	346	377	9	190.0	10.00	4.12
330	Guscio fond.	348347	378	379	9	190.0	10.00	4.12



331	Guscio fond.	403371	370	402	9	197.0	10.00	4.12
332	Guscio fond.	404372	371	403	9	197.0	10.00	4.12
333	Guscio fond.	405373	372	404	9	197.0	10.00	4.12
334	Guscio fond.	406374	373	405	9	197.0	10.00	4.12
335	Guscio fond.	407375	374	406	9	197.0	10.00	4.12
336	Guscio fond.	408376	375	407	9	197.0	10.00	4.12
337	Guscio fond.	409377	376	408	9	197.0	10.00	4.12
338	Guscio fond.	410378	377	409	9	197.0	10.00	4.12
339	Guscio fond.	379378	410	411	9	197.0	10.00	4.12
340	Guscio fond.	380379	411	412	9	197.0	10.00	4.12
341	Guscio fond.	381380	412	413	9	197.0	10.00	4.12
342	Guscio fond.	382381	413	414	9	197.0	10.00	4.12
343	Guscio fond.	383382	414	415	9	197.0	10.00	4.12
344	Guscio fond.	384383	415	416	9	197.0	10.00	4.12
345	Guscio fond.	385384	416	417	9	197.0	10.00	4.12
346	Guscio fond.	385417	418	386	9	197.0	10.00	4.12
347	Guscio fond.	386418	419	387	9	197.0	10.00	4.12
348	Guscio fond.	387419	420	388	9	197.0	10.00	4.12
349	Guscio fond.	388420	391	389	9	197.0	10.00	4.12
350	Guscio fond.	389391	392	390	9	197.0	10.00	4.12
351	Guscio fond.	390392	393	361	9	197.0	10.00	4.12
352	Guscio fond.	361393	394	362	9	197.0	10.00	4.12
353	Guscio fond.	362394	395	363	9	197.0	10.00	4.12
354	Guscio fond.	395396	364	363	9	197.0	10.00	4.12
355	Guscio fond.	396397	365	364	9	197.0	10.00	4.12
356	Guscio fond.	397398	366	365	9	197.0	10.00	4.12
357	Guscio fond.	398399	367	366	9	197.0	10.00	4.12
358	Guscio fond.	399400	368	367	9	197.0	10.00	4.12
359	Guscio fond.	400401	369	368	9	197.0	10.00	4.12
360	Guscio fond.	401402	370	369	9	197.0	10.00	4.12
361	Guscio fond.	427428	401	400	9	205.0	10.00	4.12
362	Guscio fond.	428429	402	401	9	205.0	10.00	4.12
363	Guscio fond.	430403	402	429	9	205.0	10.00	4.12
364	Guscio fond.	431404	403	430	9	205.0	10.00	4.12
365	Guscio fond.	432405	404	431	9	205.0	10.00	4.12
366	Guscio fond.	433406	405	432	9	205.0	10.00	4.12
367	Guscio fond.	434407	406	433	9	205.0	10.00	4.12
368	Guscio fond.	435408	407	434	9	205.0	10.00	4.12
369	Guscio fond.	436409	408	435	9	205.0	10.00	4.12
370	Guscio fond.	437410	409	436	9	205.0	10.00	4.12
371	Guscio fond.	411410	437	438	9	205.0	10.00	4.12
372	Guscio fond.	412411	438	439	9	205.0	10.00	4.12
373	Guscio fond.	413412	439	440	9	205.0	10.00	4.12
374	Guscio fond.	414413	440	441	9	205.0	10.00	4.12
375	Guscio fond.	415414	441	442	9	205.0	10.00	4.12
376	Guscio fond.	416415	442	443	9	205.0	10.00	4.12



377	Guscio fond.	417416	443	444	9	205.0	10.00	4.12
378	Guscio fond.	417444	445	418	9	205.0	10.00	4.12
379	Guscio fond.	418445	446	419	9	205.0	10.00	4.12
380	Guscio fond.	419446	447	420	9	205.0	10.00	4.12
381	Guscio fond.	420447	448	391	9	205.0	10.00	4.12
382	Guscio fond.	391448	449	392	9	205.0	10.00	4.12
383	Guscio fond.	392449	450	393	9	205.0	10.00	4.12
384	Guscio fond.	393450	421	394	9	205.0	10.00	4.12
385	Guscio fond.	394421	422	395	9	205.0	10.00	4.12
386	Guscio fond.	422423	396	395	9	205.0	10.00	4.12
387	Guscio fond.	423424	397	396	9	205.0	10.00	4.12
388	Guscio fond.	424425	398	397	9	205.0	10.00	4.12
389	Guscio fond.	425426	399	398	9	205.0	10.00	4.12
390	Guscio fond.	426427	400	399	9	205.0	10.00	4.12
391	Guscio fond.	454455	428	427	9	205.0	10.00	4.12
392	Guscio fond.	455456	429	428	9	205.0	10.00	4.12
393	Guscio fond.	457430	429	456	9	205.0	10.00	4.12
394	Guscio fond.	458431	430	457	9	205.0	10.00	4.12
395	Guscio fond.	459432	431	458	9	205.0	10.00	4.12
396	Guscio fond.	460433	432	459	9	205.0	10.00	4.12
397	Guscio fond.	461434	433	460	9	205.0	10.00	4.12
398	Guscio fond.	462435	434	461	9	205.0	10.00	4.12
399	Guscio fond.	463436	435	462	9	205.0	10.00	4.12
400	Guscio fond.	464437	436	463	9	205.0	10.00	4.12
401	Guscio fond.	438437	464	465	9	205.0	10.00	4.12
402	Guscio fond.	439438	465	466	9	205.0	10.00	4.12
403	Guscio fond.	440439	466	467	9	205.0	10.00	4.12
404	Guscio fond.	441440	467	468	9	205.0	10.00	4.12
405	Guscio fond.	442441	468	469	9	205.0	10.00	4.12
406	Guscio fond.	443442	469	470	9	205.0	10.00	4.12
407	Guscio fond.	444443	470	471	9	205.0	10.00	4.12
408	Guscio fond.	444471	472	445	9	205.0	10.00	4.12
409	Guscio fond.	445472	473	446	9	205.0	10.00	4.12
410	Guscio fond.	446473	474	447	9	205.0	10.00	4.12
411	Guscio fond.	447474	475	448	9	205.0	10.00	4.12
412	Guscio fond.	448475	476	449	9	205.0	10.00	4.12
413	Guscio fond.	449476	477	450	9	205.0	10.00	4.12
414	Guscio fond.	450477	478	421	9	205.0	10.00	4.12
415	Guscio fond.	453454	427	426	9	205.0	10.00	4.12
416	Guscio fond.	452453	426	425	9	205.0	10.00	4.12
417	Guscio fond.	451452	425	424	9	205.0	10.00	4.12
418	Guscio fond.	480451	424	423	9	205.0	10.00	4.12
419	Guscio fond.	479480	423	422	9	205.0	10.00	4.12
420	Guscio fond.	421478	479	422	9	205.0	10.00	4.12
421	Guscio fond.	485486	455	454	9	218.0	10.00	4.12
422	Guscio fond.	484485	454	453	9	218.0	10.00	4.12



423	Guscio fond.	483484	453	452	9	218.0	10.00	4.12
424	Guscio fond.	482483	452	451	9	218.0	10.00	4.12
425	Guscio fond.	481482	451	480	9	218.0	10.00	4.12
426	Guscio fond.	510481	480	479	9	218.0	10.00	4.12
427	Guscio fond.	478509	510	479	9	218.0	10.00	4.12
428	Guscio fond.	477508	509	478	9	218.0	10.00	4.12
429	Guscio fond.	476507	508	477	9	218.0	10.00	4.12
430	Guscio fond.	475506	507	476	9	218.0	10.00	4.12
431	Guscio fond.	474505	506	475	9	218.0	10.00	4.12
432	Guscio fond.	473504	505	474	9	218.0	10.00	4.12
433	Guscio fond.	472503	504	473	9	218.0	10.00	4.12
434	Guscio fond.	486487	456	455	9	218.0	10.00	4.12
435	Guscio fond.	488457	456	487	9	218.0	10.00	4.12
436	Guscio fond.	489458	457	488	9	218.0	10.00	4.12
437	Guscio fond.	490459	458	489	9	218.0	10.00	4.12
438	Guscio fond.	491460	459	490	9	218.0	10.00	4.12
439	Guscio fond.	492461	460	491	9	218.0	10.00	4.12
440	Guscio fond.	493462	461	492	9	218.0	10.00	4.12
441	Guscio fond.	494463	462	493	9	218.0	10.00	4.12
442	Guscio fond.	495464	463	494	9	218.0	10.00	4.12
443	Guscio fond.	465464	495	496	9	218.0	10.00	4.12
444	Guscio fond.	466465	496	497	9	218.0	10.00	4.12
445	Guscio fond.	467466	497	498	9	218.0	10.00	4.12
446	Guscio fond.	468467	498	499	9	218.0	10.00	4.12
447	Guscio fond.	469468	499	500	9	218.0	10.00	4.12
448	Guscio fond.	470469	500	501	9	218.0	10.00	4.12
449	Guscio fond.	471470	501	502	9	218.0	10.00	4.12
450	Guscio fond.	471502	503	472	9	218.0	10.00	4.12
451	Guscio fond.	517518	487	486	9	225.0	10.00	4.12
452	Guscio fond.	519488	487	518	9	225.0	10.00	4.12
453	Guscio fond.	520489	488	519	9	225.0	10.00	4.12
454	Guscio fond.	521490	489	520	9	225.0	10.00	4.12
455	Guscio fond.	522491	490	521	9	225.0	10.00	4.12
456	Guscio fond.	523492	491	522	9	225.0	10.00	4.12
457	Guscio fond.	524493	492	523	9	225.0	10.00	4.12
458	Guscio fond.	525494	493	524	9	225.0	10.00	4.12
459	Guscio fond.	526495	494	525	9	225.0	10.00	4.12
460	Guscio fond.	496495	526	527	9	225.0	10.00	4.12
461	Guscio fond.	497496	527	528	9	225.0	10.00	4.12
462	Guscio fond.	498497	528	529	9	225.0	10.00	4.12
463	Guscio fond.	499498	529	530	9	225.0	10.00	4.12
464	Guscio fond.	500499	530	531	9	225.0	10.00	4.12
465	Guscio fond.	501500	531	532	9	225.0	10.00	4.12
466	Guscio fond.	502501	532	533	9	225.0	10.00	4.12
467	Guscio fond.	516517	486	485	9	225.0	10.00	4.12
468	Guscio fond.	515516	485	484	9	225.0	10.00	4.12



469	Guscio fond.	514515	484	483	9	225.0	10.00	4.12
470	Guscio fond.	513514	483	482	9	225.0	10.00	4.12
471	Guscio fond.	512513	482	481	9	225.0	10.00	4.12
472	Guscio fond.	511512	481	510	9	225.0	10.00	4.12
473	Guscio fond.	509540	511	510	9	225.0	10.00	4.12
474	Guscio fond.	508539	540	509	9	225.0	10.00	4.12
475	Guscio fond.	507538	539	508	9	225.0	10.00	4.12
476	Guscio fond.	506537	538	507	9	225.0	10.00	4.12
477	Guscio fond.	505536	537	506	9	225.0	10.00	4.12
478	Guscio fond.	504535	536	505	9	225.0	10.00	4.12
479	Guscio fond.	503534	535	504	9	225.0	10.00	4.12
480	Guscio fond.	502533	534	503	9	225.0	10.00	4.12
481	Guscio fond.	566565	514	513	9	232.0	10.00	4.12
482	Guscio fond.	567566	513	512	9	232.0	10.00	4.12
483	Guscio fond.	568567	512	511	9	232.0	10.00	4.12
484	Guscio fond.	540569	568	511	9	232.0	10.00	4.12
485	Guscio fond.	539570	569	540	9	232.0	10.00	4.12
486	Guscio fond.	538541	570	539	9	232.0	10.00	4.12
487	Guscio fond.	537542	541	538	9	232.0	10.00	4.12
488	Guscio fond.	536543	542	537	9	232.0	10.00	4.12
489	Guscio fond.	535544	543	536	9	232.0	10.00	4.12
490	Guscio fond.	534545	544	535	9	232.0	10.00	4.12
491	Guscio fond.	533546	545	534	9	232.0	10.00	4.12
492	Guscio fond.	533532	547	546	9	232.0	10.00	4.12
493	Guscio fond.	532531	548	547	9	232.0	10.00	4.12
494	Guscio fond.	531530	549	548	9	232.0	10.00	4.12
495	Guscio fond.	530529	550	549	9	232.0	10.00	4.12
496	Guscio fond.	565564	515	514	9	232.0	10.00	4.12
497	Guscio fond.	564563	516	515	9	232.0	10.00	4.12
498	Guscio fond.	563562	517	516	9	232.0	10.00	4.12
499	Guscio fond.	562561	518	517	9	232.0	10.00	4.12
500	Guscio fond.	560519	518	561	9	232.0	10.00	4.12
501	Guscio fond.	559520	519	560	9	232.0	10.00	4.12
502	Guscio fond.	558521	520	559	9	232.0	10.00	4.12
503	Guscio fond.	557522	521	558	9	232.0	10.00	4.12
504	Guscio fond.	556523	522	557	9	232.0	10.00	4.12
505	Guscio fond.	555524	523	556	9	232.0	10.00	4.12
506	Guscio fond.	554525	524	555	9	232.0	10.00	4.12
507	Guscio fond.	553526	525	554	9	232.0	10.00	4.12
508	Guscio fond.	527526	553	552	9	232.0	10.00	4.12
509	Guscio fond.	528527	552	551	9	232.0	10.00	4.12
510	Guscio fond.	529528	551	550	9	232.0	10.00	4.12
511	Guscio fond.	577578	563	564	9	239.0	10.00	4.12
512	Guscio fond.	578579	562	563	9	239.0	10.00	4.12
513	Guscio fond.	579580	561	562	9	239.0	10.00	4.12
514	Guscio fond.	581560	561	580	9	239.0	10.00	4.12





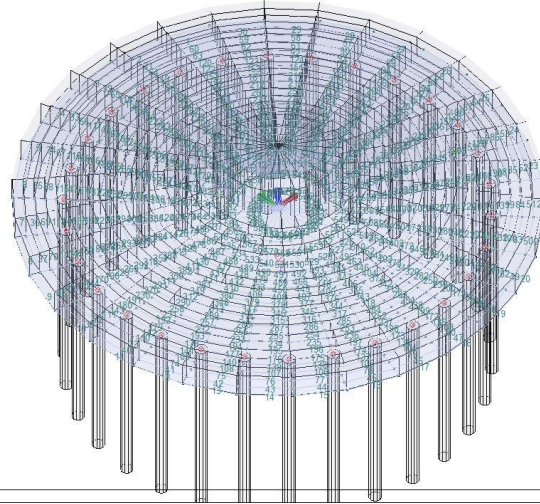
515	Guscio fond.	582559	560	581	9	239.0	10.00	4.12
516	Guscio fond.	574575	566	567	9	239.0	10.00	4.12
517	Guscio fond.	576577	564	565	9	239.0	10.00	4.12
518	Guscio fond.	573574	567	568	9	239.0	10.00	4.12
519	Guscio fond.	584557	558	583	9	239.0	10.00	4.12
520	Guscio fond.	585556	557	584	9	239.0	10.00	4.12
521	Guscio fond.	586555	556	585	9	239.0	10.00	4.12
522	Guscio fond.	587554	555	586	9	239.0	10.00	4.12
523	Guscio fond.	588553	554	587	9	239.0	10.00	4.12
524	Guscio fond.	552553	588	589	9	239.0	10.00	4.12
525	Guscio fond.	551552	589	590	9	239.0	10.00	4.12
526	Guscio fond.	550551	590	591	9	239.0	10.00	4.12
527	Guscio fond.	549550	591	592	9	239.0	10.00	4.12
528	Guscio fond.	548549	592	593	9	239.0	10.00	4.12
529	Guscio fond.	547548	593	594	9	239.0	10.00	4.12
530	Guscio fond.	546547	594	595	9	239.0	10.00	4.12
531	Guscio fond.	546595	596	545	9	239.0	10.00	4.12
532	Guscio fond.	575576	565	566	9	239.0	10.00	4.12
533	Guscio fond.	544597	598	543	9	239.0	10.00	4.12
534	Guscio fond.	543598	599	542	9	239.0	10.00	4.12
535	Guscio fond.	542599	600	541	9	239.0	10.00	4.12
536	Guscio fond.	541600	571	570	9	239.0	10.00	4.12
537	Guscio fond.	570571	572	569	9	239.0	10.00	4.12
538	Guscio fond.	569572	573	568	9	239.0	10.00	4.12
539	Guscio fond.	583558	559	582	9	239.0	10.00	4.12
540	Guscio fond.	545596	597	544	9	239.0	10.00	4.12
541	Guscio fond.	4 581	580	3	9	405.0	10.00	4.12
542	Guscio fond.	5 582	581	4	9	405.0	10.00	4.12
543	Guscio fond.	6 583	582	5	9	405.0	10.00	4.12
544	Guscio fond.	7 584	583	6	9	405.0	10.00	4.12
545	Guscio fond.	8 585	584	7	9	405.0	10.00	4.12
546	Guscio fond.	9 586	585	8	9	405.0	10.00	4.12
547	Guscio fond.	10587	586	9	9	405.0	10.00	4.12
548	Guscio fond.	11588	587	10	9	405.0	10.00	4.12
549	Guscio fond.	589588	11	12	9	405.0	10.00	4.12
550	Guscio fond.	590589	12	13	9	405.0	10.00	4.12
551	Guscio fond.	591590	13	14	9	405.0	10.00	4.12
552	Guscio fond.	592591	14	15	9	405.0	10.00	4.12
553	Guscio fond.	593592	15	16	9	405.0	10.00	4.12
554	Guscio fond.	594593	16	17	9	405.0	10.00	4.12
555	Guscio fond.	595594	17	18	9	405.0	10.00	4.12
556	Guscio fond.	2 3	580	579	9	405.0	10.00	4.12
557	Guscio fond.	1 2	579	578	9	405.0	10.00	4.12
558	Guscio fond.	29 1	578	577	9	405.0	10.00	4.12
559	Guscio fond.	28 29	577	576	9	405.0	10.00	4.12
560	Guscio fond.	27 28	576	575	9	405.0	10.00	4.12



561	Guscio fond.	26 27	575	574	9	405.0	10.00	4.12
562	Guscio fond.	25 26	574	573	9	405.0	10.00	4.12
563	Guscio fond.	57224	25	573	9	405.0	10.00	4.12
564	Guscio fond.	57123	24	572	9	405.0	10.00	4.12
565	Guscio fond.	60022	23	571	9	405.0	10.00	4.12
566	Guscio fond.	59921	22	600	9	405.0	10.00	4.12
567	Guscio fond.	59820	21	599	9	405.0	10.00	4.12
568	Guscio fond.	59719	20	598	9	405.0	10.00	4.12
569	Guscio fond.	59518	601	596	9	405.0	10.00	4.12
570	Guscio fond.	596601	19	597	9	405.0	10.00	4.12
571	Guscio fond.	30 2	1		9	405.0	10.00	4.12
572	Guscio fond.	30 3	2		9	405.0	10.00	4.12
573	Guscio fond.	30 4	3		9	405.0	10.00	4.12
574	Guscio fond.	30 5	4		9	405.0	10.00	4.12
575	Guscio fond.	30 6	5		9	405.0	10.00	4.12
576	Guscio fond.	30 7	6		9	405.0	10.00	4.12
577	Guscio fond.	30 8	7		9	405.0	10.00	4.12
578	Guscio fond.	30 1	29		9	405.0	10.00	4.12
579	Guscio fond.	30 9	8		9	405.0	10.00	4.12
580	Guscio fond.	30 10	9		9	405.0	10.00	4.12
581	Guscio fond.	30 11	10		9	405.0	10.00	4.12
582	Guscio fond.	30 12	11		9	405.0	10.00	4.12
583	Guscio fond.	28 30	29		9	405.0	10.00	4.12
584	Guscio fond.	27 30	28		9	405.0	10.00	4.12
585	Guscio fond.	26 30	27		9	405.0	10.00	4.12
586	Guscio fond.	25 30	26		9	405.0	10.00	4.12
587	Guscio fond.	24 30	25		9	405.0	10.00	4.12
588	Guscio fond.	23 30	24		9	405.0	10.00	4.12
589	Guscio fond.	22 30	23		9	405.0	10.00	4.12
590	Guscio fond.	21 30	22		9	405.0	10.00	4.12
591	Guscio fond.	21 20	30		9	405.0	10.00	4.12
592	Guscio fond.	20 19	30		9	405.0	10.00	4.12
593	Guscio fond.	19601	30		9	405.0	10.00	4.12
594	Guscio fond.	60118	30		9	405.0	10.00	4.12
595	Guscio fond.	18 17	30		9	405.0	10.00	4.12
596	Guscio fond.	17 16	30		9	405.0	10.00	4.12
597	Guscio fond.	16 15	30		9	405.0	10.00	4.12
598	Guscio fond.	15 14	30		9	405.0	10.00	4.12
599	Guscio fond.	30 14	13		9	405.0	10.00	4.12
600	Guscio fond.	30 13	12		9	405.0	10.00	4.12



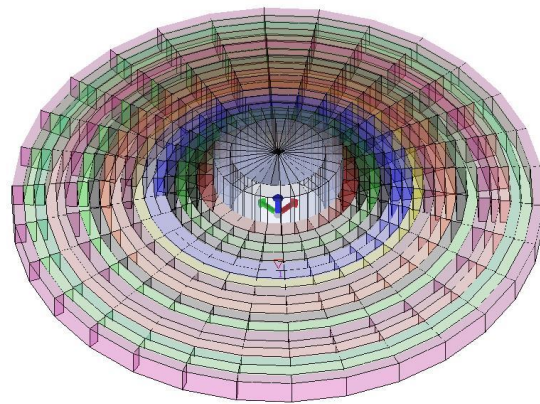
MODELLO



Fondazione WTG Portoscuso

16\_MOD\_NUMERAZIONE\_D3

MODELLO



Fondazione WTG Portoscuso

16\_MOD\_SPESSORI\_D3



## 7. MODELLAZIONE DELLE AZIONI

### 7.1. 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:

<b>1</b>	<b>carico concentrato nodale</b> 6 dati (forza $F_x$ , $F_y$ , $F_z$ , momento $M_x$ , $M_y$ , $M_z$ )
<b>2</b>	<b>spostamento nodale impresso</b> 6 dati (spostamento $T_x$ , $T_y$ , $T_z$ , rotazione $R_x$ , $R_y$ , $R_z$ )
<b>3</b>	<b>carico distribuito globale su elemento tipo trave</b> 7 dati ( $f_x$ , $f_y$ , $f_z$ , $m_x$ , $m_y$ , $m_z$ , ascissa di inizio carico) 7 dati ( $f_x$ , $f_y$ , $f_z$ , $m_x$ , $m_y$ , $m_z$ , ascissa di fine carico)
<b>4</b>	<b>carico distribuito locale su elemento tipo trave</b> 7 dati ( $f_1$ , $f_2$ , $f_3$ , $m_1$ , $m_2$ , $m_3$ , ascissa di inizio carico) 7 dati ( $f_1$ , $f_2$ , $f_3$ , $m_1$ , $m_2$ , $m_3$ , ascissa di fine carico)
<b>5</b>	<b>carico concentrato globale su elemento tipo trave</b> 7 dati ( $F_x$ , $F_y$ , $F_z$ , $M_x$ , $M_y$ , $M_z$ , ascissa di carico)
<b>6</b>	<b>carico concentrato locale su elemento tipo trave</b> 7 dati ( $F_1$ , $F_2$ , $F_3$ , $M_1$ , $M_2$ , $M_3$ , ascissa di carico)
<b>7</b>	<b>variazione termica applicata ad elemento tipo trave</b> 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
<b>8</b>	<b>carico di pressione uniforme su elemento tipo piastra</b> 1 dato (pressione)
<b>9</b>	<b>carico di pressione variabile su elemento tipo piastra</b> 4 dati (pressione, quota, pressione, quota)
<b>10</b>	<b>variazione termica applicata ad elemento tipo piastra</b> 2 dati (variazioni termiche: media e differenza nello spessore)
<b>11</b>	<b>carico variabile generale su elementi tipo trave e piastra</b> 1 dato descrizione della tipologia

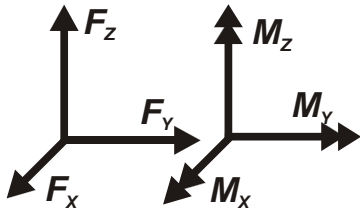


4 dati per segmento (posizione, valore, posizione, valore)

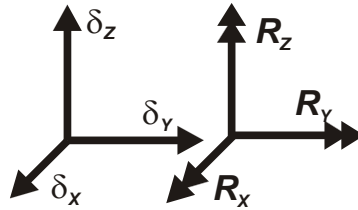
la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave

**12 gruppo di carichi con impronta su piastra**

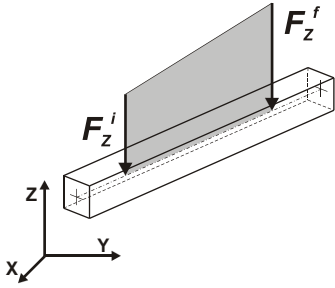
9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell'impronta, interasse tra i carichi)



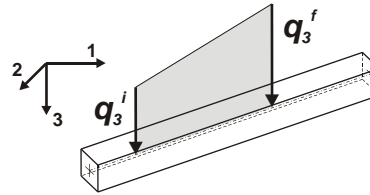
Carico concentrato nodale



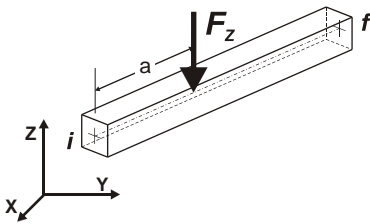
Spostamento impresso



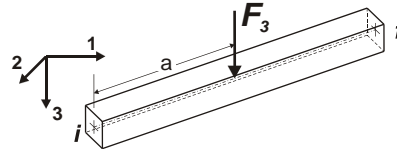
Carico distribuito globale



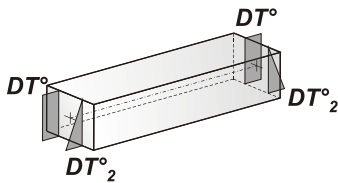
Carico distribuito locale



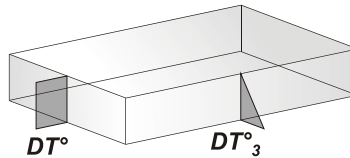
Carico concentrato globale



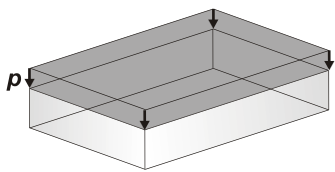
Carico concentrato locale



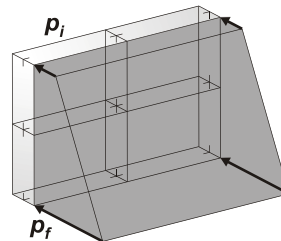
Carico termico 2D



Carico termico 3D



Carico pressione uniforme



Carico pressione variabile

Tipo	carico concentrato nodale
------	---------------------------

Id	Tipo	Fx	Fy	Fz	Mx	My	Mz
		daN	daN	daN	daN cm	daN cm	daN cm
1	struttura sovrastante	0.0	0.0	-2.408e+04	0.0	0.0	0.0



Id	Tipo	Fx	Fy	Fz	Mx	My	Mz
2	azione sismica orizzontale	7397.00	0.0	0.0	0.0	0.0	0.0
3	azione sismica 1	0.0	0.0	-5.401e+05	0.0	0.0	0.0
4	azione sismica 2-30	0.0	0.0	-5.283e+05	0.0	0.0	0.0
5	azione sismica 3-29	0.0	0.0	-4.934e+05	0.0	0.0	0.0
6	azione sismica 4-28	0.0	0.0	-4.370e+05	0.0	0.0	0.0
7	azione sismica 5-27	0.0	0.0	-3.614e+05	0.0	0.0	0.0
8	azione sismica 6-26	0.0	0.0	-2.701e+05	0.0	0.0	0.0
9	azione sismica 7-25	0.0	0.0	-1.669e+05	0.0	0.0	0.0
10	azione sismica 8-24	0.0	0.0	-5.646e+04	0.0	0.0	0.0
11	azione sismica 9-23	0.0	0.0	5.646e+04	0.0	0.0	0.0
12	azione sismica 10-22	0.0	0.0	1.669e+05	0.0	0.0	0.0
13	azione sismica 11-21	0.0	0.0	2.701e+05	0.0	0.0	0.0
14	azione sismica 12-20	0.0	0.0	3.614e+05	0.0	0.0	0.0
15	vento azione orizzontale	1.383e+04	0.0	0.0	0.0	0.0	0.0
16	Vento 1	0.0	0.0	-9.220e+05	0.0	0.0	0.0
17	Vento 2-29	0.0	0.0	-9.018e+05	0.0	0.0	0.0
18	Vento 3-28	0.0	0.0	-8.423e+05	0.0	0.0	0.0
19	Vento 4-27	0.0	0.0	-7.459e+05	0.0	0.0	0.0
20	Vento 5-26	0.0	0.0	-6.169e+05	0.0	0.0	0.0
21	Vento 6-25	0.0	0.0	-4.610e+05	0.0	0.0	0.0
22	Vento 7-24	0.0	0.0	-2.849e+05	0.0	0.0	0.0
23	Vento 8-23	0.0	0.0	-9.637e+04	0.0	0.0	0.0
24	Vento 9-22	0.0	0.0	9.637e+04	0.0	0.0	0.0
25	Vento 10-21	0.0	0.0	2.849e+05	0.0	0.0	0.0
26	Vento 11-20	0.0	0.0	4.610e+05	0.0	0.0	0.0
27	Vento 12-19	0.0	0.0	6.169e+05	0.0	0.0	0.0



Id	Tipo	Fx	Fy	Fz	Mx	My	Mz
45	Azione sismica 13-19	0.0	0.0	4.370e+05	0.0	0.0	0.0
46	Azione sismica 14 - 18	0.0	0.0	4.934e+05	0.0	0.0	0.0
47	Azione sismica 15	0.0	0.0	5.983e+05	0.0	0.0	0.0
48	Azione sismica 16	0.0	0.0	5.401e+05	0.0	0.0	0.0
49	Vento 13 - 18	0.0	0.0	7.459e+05	0.0	0.0	0.0
50	Vento 14 - 17	0.0	0.0	8.423e+05	0.0	0.0	0.0
51	Vento 15	0.0	0.0	9.018e+05	0.0	0.0	0.0
52	Vento 16	0.0	0.0	9.220e+05	0.0	0.0	0.0



## 8. SCHEMATIZZAZIONE DEI CASI DI CARICO

### 8.1. 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:

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

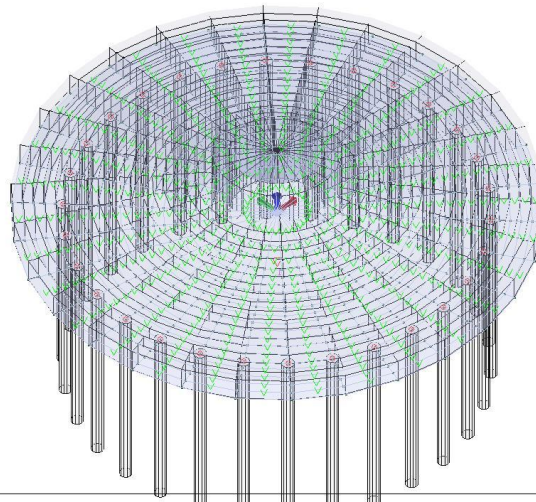
In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati

con la sigla identificativa del carico.

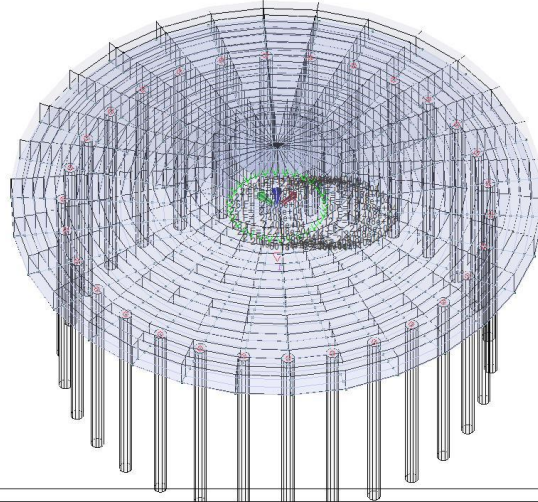
Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Skso1 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	Gk	CDC=G1k (struttura sovrastante)	Nodo:da 1 a 29 Azione : struttura sovrastante Nodo: 601 Azione : struttura sovrastante
3	Gk	CDC=G1k (sisma x)	Nodo:da 1 a 29 Azione : azione sismica orizzontale Nodo:da 1 a 29 Azione : azione sismica 7-25 Nodo: 601 Azione : azione sismica orizzontale Nodo: 601 Azione : azione sismica 13-19
5	Qvk	CDC=Qvk (carico da vento) .....	Nodo:da 1 a 29 Azione : vento azione orizzontale Nodo:da 1 a 29 Azione : Vento 7-24 Nodo: 601 Azione : vento azione orizzontale Nodo: 601 Azione : Vento 13 - 18

CARICHI 001) CDC=Ggk (peso proprio della struttura)



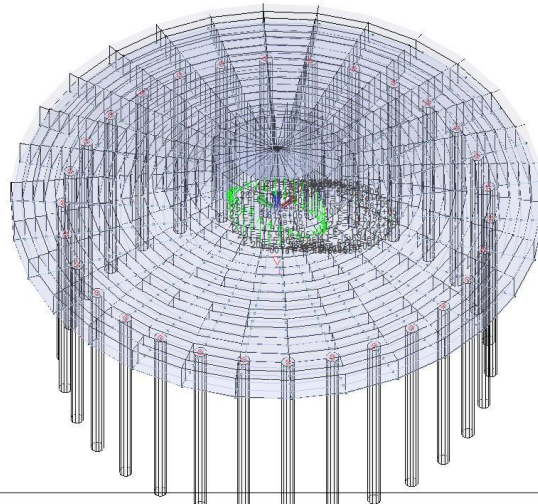
CARICHI 002) CDC=G1k (struttura sovrastante)



Fondazione WTG Portoscuso

22\_CDC\_002\_CDC=G1k (struttura sovrastante)

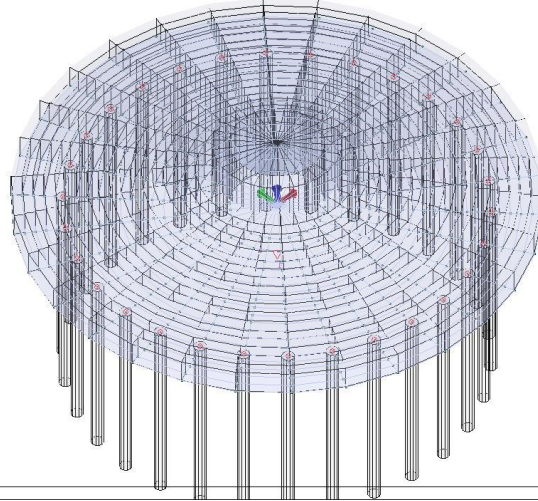
CARICHI 003) CDC=G1k (sisma x)



Fondazione WTG Portoscuso

22\_CDC\_003\_CDC=G1k (sisma x)

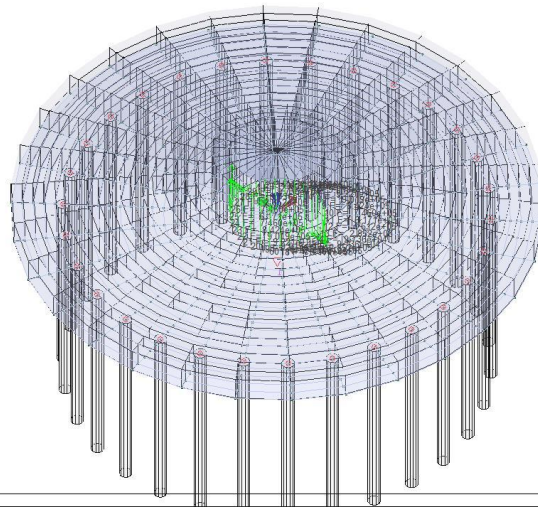
CARICHI 004) CDC=G1k (terreno di riporto)



Fondazione WTG Portoscuso

22\_CDC\_004\_CDC=G1k (terreno di riporto)

CARICHI 005) CDC=Qvk (carico da vento) .....



Fondazione WTG Portoscuso

22\_CDC\_005\_CDC=Qvk (carico da vento) .....

## 9. DEFINIZIONE DELLE COMBINAZIONI

### 9.1. 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

$$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi02 \cdot Qk2 + \gamma Q3 \cdot \psi03 \cdot Qk3 + \dots$$

#### Combinazione caratteristica (rara) SLE

$$G1 + G2 + P + Qk1 + \psi02 \cdot Qk2 + \psi03 \cdot Qk3 + \dots$$

#### Combinazione frequente SLE

$$G1 + G2 + P + \psi11 \cdot Qk1 + \psi22 \cdot Qk2 + \psi23 \cdot Qk3 + \dots$$

#### Combinazione quasi permanente SLE

$$G1 + G2 + P + \psi21 \cdot Qk1 + \psi22 \cdot Qk2 + \psi23 \cdot Qk3 + \dots$$

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

$$E + G1 + G2 + P + \psi21 \cdot Qk1 + \psi22 \cdot Qk2 + \dots$$

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

$$G1 + G2 + Ad + P + \psi21 \cdot Qk1 + \psi22 \cdot Qk2 + \dots$$

Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	$\psi0$	$\psi1$	$\psi2$
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 $\leq 30kN$ )	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





## 10. RISULTATI NODALI

### 10.1. 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			Rotazione X	Rotazione Y	Rotazione Z
		X	Y	Z			
	mm	mm	mm				
1 1	-0.76	0.06	-1.32	4.19e-05	7.11e-04	0.0	
1 2	-0.58	0.05	-1.21	3.42e-05	5.46e-04	0.0	
2 1	-0.73	0.07	-1.72	5.29e-05	6.97e-04	0.0	
2 2	-0.56	0.06	-1.52	4.25e-05	5.35e-04	0.0	
3 1	-0.71	0.08	-2.09	5.76e-05	6.79e-04	0.0	
3 2	-0.54	0.06	-1.80	4.58e-05	5.21e-04	0.0	
4 1	-0.68	0.08	-2.39	5.49e-05	6.61e-04	0.0	
4 2	-0.52	0.06	-2.03	4.34e-05	5.07e-04	0.0	
5 1	-0.66	0.06	-2.61	4.52e-05	6.45e-04	0.0	
5 2	-0.50	0.05	-2.21	3.56e-05	4.94e-04	0.0	
6 1	-0.64	0.04	-2.76	3.00e-05	6.34e-04	0.0	
6 2	-0.49	0.03	-2.32	2.35e-05	4.86e-04	0.0	
7 1	-0.64	0.01	-2.81	1.19e-05	6.30e-04	0.0	
7 2	-0.49	0.01	-2.36	9.12e-06	4.83e-04	0.0	
8 1	-0.64	-0.01	-2.77	-6.37e-06	6.33e-04	0.0	
8 2	-0.49	-0.01	-2.33	-5.33e-06	4.85e-04	0.0	
8 3	-0.29	-0.01	-1.73	-9.10e-06	2.82e-04	0.0	
9 1	-0.66	-0.04	-2.64	-2.17e-05	6.44e-04	0.0	
9 2	-0.50	-0.03	-2.23	-1.75e-05	4.93e-04	0.0	
10 1	-0.68	-0.05	-2.42	-3.15e-05	6.59e-04	0.0	
10 2	-0.52	-0.04	-2.06	-2.54e-05	5.05e-04	0.0	
11 1	-0.70	-0.05	-2.13	-3.43e-05	6.77e-04	0.0	
11 2	-0.54	-0.04	-1.84	-2.79e-05	5.19e-04	0.0	
12 1	-0.73	-0.05	-1.78	-2.98e-05	6.94e-04	0.0	
12 2	-0.56	-0.04	-1.56	-2.47e-05	5.33e-04	0.0	
13 1	-0.75	-0.03	-1.38	-1.87e-05	7.08e-04	0.0	
13 2	-0.58	-0.03	-1.26	-1.64e-05	5.44e-04	0.0	



14 1	-0.76	-8.79e-03	-0.95	-3.07e-06	7.16e-04	0.0
14 2	-0.59	-0.01	-0.93	-4.42e-06	5.51e-04	0.0
14 3	-0.35	-0.02	-0.90	-1.11e-05	3.25e-04	0.0
15 1	-0.76	0.02	-0.51	1.44e-05	7.17e-04	0.0
15 2	-0.59	9.54e-03	-0.59	9.03e-06	5.52e-04	0.0
15 3	-0.35	-5.39e-03	-0.70	-3.16e-06	3.27e-04	0.0
16 1	-0.75	0.04	-0.07	3.08e-05	7.12e-04	0.0
16 2	-0.58	0.03	-0.25	2.17e-05	5.48e-04	0.0
16 3	-0.35	5.64e-03	-0.50	4.40e-06	3.25e-04	0.0
17 1	-0.74	0.06	0.33	4.32e-05	7.00e-04	0.0
17 2	-0.57	0.04	0.06	3.14e-05	5.39e-04	0.0
18 1	-0.72	0.07	0.69	4.97e-05	6.84e-04	0.0
18 2	-0.55	0.05	0.33	3.67e-05	5.28e-04	0.0
19 1	-0.67	0.06	1.22	4.21e-05	6.53e-04	0.0
19 2	-0.52	0.04	0.74	3.16e-05	5.05e-04	0.0
20 1	-0.66	0.04	1.36	2.97e-05	6.43e-04	0.0
20 2	-0.51	0.03	0.85	2.24e-05	4.97e-04	0.0
21 1	-0.65	0.02	1.41	1.43e-05	6.40e-04	0.0
21 2	-0.50	0.01	0.89	1.10e-05	4.94e-04	0.0
22 1	-0.66	-4.04e-03	1.38	-1.15e-06	6.43e-04	0.0
22 2	-0.51	-2.42e-03	0.86	0.0	4.97e-04	0.0
22 3	-0.31	-9.15e-03	0.15	-6.32e-06	2.98e-04	0.0
23 1	-0.67	-0.02	1.25	-1.39e-05	6.53e-04	0.0
23 2	-0.52	-0.02	0.76	-9.87e-06	5.04e-04	0.0
24 1	-0.69	-0.03	1.04	-2.17e-05	6.67e-04	0.0
24 2	-0.53	-0.02	0.60	-1.55e-05	5.15e-04	0.0
25 1	-0.72	-0.04	0.76	-2.31e-05	6.84e-04	0.0
25 2	-0.55	-0.02	0.39	-1.63e-05	5.27e-04	0.0
26 1	-0.74	-0.03	0.43	-1.81e-05	7.01e-04	0.0
26 2	-0.57	-0.02	0.13	-1.21e-05	5.40e-04	0.0
27 1	-0.76	-0.01	7.01e-03	-6.78e-06	7.14e-04	0.0
27 2	-0.59	-6.08e-03	-0.19	-3.24e-06	5.50e-04	0.0
27 3	-0.35	-5.36e-03	-0.50	-4.16e-06	3.25e-04	0.0
28 1	-0.77	0.01	-0.43	9.09e-06	7.20e-04	0.0
28 2	-0.59	0.01	-0.53	9.06e-06	5.54e-04	0.0
28 3	-0.35	5.67e-03	-0.70	3.40e-06	3.27e-04	0.0
29 1	-0.77	0.04	-0.88	2.63e-05	7.19e-04	0.0
29 2	-0.59	0.03	-0.87	2.23e-05	5.53e-04	0.0
29 3	-0.35	0.02	-0.90	1.13e-05	3.25e-04	0.0
30 1	-0.86	0.02	-0.70	1.36e-05	7.44e-04	0.0
30 2	-0.66	0.01	-0.74	1.05e-05	5.72e-04	0.0
30 3	-0.40	1.55e-04	-0.81	0.0	3.38e-04	0.0
31 1	0.26	1.40e-03	-1.89	2.14e-06	-2.31e-04	0.0
31 2	0.21	1.08e-03	-1.55	1.64e-06	-1.87e-04	0.0
32 1	0.20	0.05	-2.42	7.18e-05	-1.55e-04	0.0
32 2	0.16	0.04	-1.99	5.69e-05	-1.27e-04	0.0





33 1	0.21	0.11	-1.75	1.42e-04	-1.69e-04	0.0
33 2	0.17	0.09	-1.45	1.14e-04	-1.39e-04	0.0
34 1	0.16	0.15	-1.59	1.83e-04	-1.02e-04	0.0
34 2	0.13	0.12	-1.32	1.47e-04	-8.67e-05	0.0
35 1	0.10	0.16	-1.38	1.94e-04	-2.60e-05	0.0
35 2	0.08	0.13	-1.16	1.57e-04	-2.66e-05	0.0
36 1	0.04	0.14	-1.12	1.74e-04	4.75e-05	0.0
36 2	0.03	0.12	-0.96	1.43e-04	3.16e-05	0.0
37 1	-7.70e-03	0.10	-0.84	1.27e-04	1.06e-04	0.0
37 2	-3.12e-03	0.09	-0.74	1.08e-04	7.86e-05	0.0
38 1	-0.04	0.05	-0.53	6.22e-05	1.41e-04	0.0
38 2	-0.03	0.05	-0.50	5.77e-05	1.07e-04	0.0
39 1	-0.04	-4.50e-03	-0.21	-1.01e-05	1.45e-04	0.0
39 2	-0.03	5.58e-03	-0.26	2.06e-06	1.13e-04	0.0
39 3	-0.02	0.02	-0.34	2.16e-05	6.84e-05	0.0
40 1	-0.02	-0.06	0.09	-7.69e-05	1.21e-04	0.0
40 2	-0.02	-0.04	-0.03	-4.97e-05	9.59e-05	0.0
40 3	-0.02	-3.70e-03	-0.20	-1.00e-05	6.30e-05	0.0
41 1	0.25	-0.06	-1.86	-7.50e-05	-2.16e-04	0.0
41 2	0.20	-0.05	-1.53	-5.97e-05	-1.76e-04	0.0
42 1	0.22	-0.11	-1.77	-1.40e-04	-1.73e-04	0.0
42 2	0.17	-0.09	-1.46	-1.12e-04	-1.42e-04	0.0
43 1	0.16	-0.15	-1.62	-1.82e-04	-1.08e-04	0.0
43 2	0.13	-0.12	-1.34	-1.46e-04	-9.09e-05	0.0
44 1	0.10	-0.16	-1.41	-1.96e-04	-3.20e-05	0.0
44 2	0.09	-0.13	-1.18	-1.58e-04	-3.13e-05	0.0
45 1	0.04	-0.14	-1.16	-1.78e-04	4.19e-05	0.0
45 2	0.04	-0.12	-0.99	-1.46e-04	2.73e-05	0.0
46 1	-4.31e-03	-0.11	-0.88	-1.33e-04	1.02e-04	0.0
46 2	-5.08e-04	-0.09	-0.77	-1.12e-04	7.53e-05	0.0
47 1	-0.03	-0.06	-0.58	-6.96e-05	1.38e-04	0.0
47 2	-0.03	-0.05	-0.54	-6.34e-05	1.05e-04	0.0
48 1	-0.04	-1.58e-03	-0.27	2.27e-06	1.46e-04	0.0
48 2	-0.03	-0.01	-0.30	-8.12e-06	1.13e-04	0.0
48 3	-0.02	-0.02	-0.34	-2.17e-05	6.85e-05	0.0
49 1	-0.02	0.05	0.04	6.97e-05	1.24e-04	0.0
49 2	-0.02	0.03	-0.07	4.42e-05	9.84e-05	0.0
49 3	-0.02	3.67e-03	-0.20	1.00e-05	6.30e-05	0.0
50 1	0.01	0.09	0.33	1.21e-04	7.71e-05	0.0
50 2	5.40e-03	0.06	0.15	8.47e-05	6.43e-05	0.0
51 1	0.06	0.12	0.58	1.48e-04	1.43e-05	0.0
51 2	0.04	0.08	0.35	1.07e-04	1.77e-05	0.0
52 1	0.12	0.11	0.79	1.47e-04	-5.30e-05	0.0
52 2	0.08	0.08	0.51	1.07e-04	-3.28e-05	0.0
53 1	0.16	0.09	0.95	1.18e-04	-1.13e-04	0.0
53 2	0.12	0.07	0.64	8.66e-05	-7.77e-05	0.0



54 1	0.20	0.05	1.06	6.66e-05	-1.54e-04	0.0
54 2	0.14	0.04	0.72	4.92e-05	-1.09e-04	0.0
55 1	0.21	1.99e-03	1.09	3.02e-06	-1.70e-04	0.0
55 2	0.15	1.53e-03	0.75	2.32e-06	-1.21e-04	0.0
56 1	0.20	-0.05	1.07	-6.13e-05	-1.57e-04	0.0
56 2	0.14	-0.04	0.73	-4.51e-05	-1.11e-04	0.0
57 1	0.17	-0.09	0.98	-1.14e-04	-1.18e-04	0.0
57 2	0.12	-0.07	0.66	-8.40e-05	-8.19e-05	0.0
58 1	0.12	-0.11	0.83	-1.46e-04	-5.98e-05	0.0
58 2	0.08	-0.08	0.54	-1.07e-04	-3.80e-05	0.0
59 1	0.07	-0.12	0.62	-1.51e-04	7.54e-06	0.0
59 2	0.05	-0.08	0.38	-1.09e-04	1.24e-05	0.0
60 1	0.02	-0.10	0.37	-1.27e-04	7.16e-05	0.0
60 2	8.19e-03	-0.07	0.19	-8.87e-05	6.01e-05	0.0
61 1	0.25	0.06	-1.86	7.87e-05	-2.14e-04	0.0
61 2	0.20	0.05	-1.52	6.26e-05	-1.74e-04	0.0
62 1	6.30e-03	-0.08	0.56	-1.19e-04	1.02e-04	0.0
62 2	1.09e-03	-0.06	0.31	-8.43e-05	8.21e-05	0.0
62 3	-9.28e-03	-0.02	-0.05	-3.61e-05	5.68e-05	0.0
63 1	-0.03	-0.05	0.18	-7.34e-05	1.47e-04	0.0
63 2	-0.02	-0.03	0.02	-4.88e-05	1.16e-04	0.0
63 3	-0.02	-3.85e-03	-0.22	-1.33e-05	7.32e-05	0.0
64 1	-0.04	-4.36e-03	-0.22	-1.24e-05	1.71e-04	0.0
64 2	-0.03	4.12e-03	-0.29	-1.58e-06	1.32e-04	0.0
64 3	-0.02	0.02	-0.41	1.56e-05	7.90e-05	0.0
65 1	-0.04	0.04	-0.65	5.39e-05	1.67e-04	0.0
65 2	-0.03	0.04	-0.62	4.94e-05	1.28e-04	0.0
66 1	-0.02	0.09	-1.06	1.14e-04	1.36e-04	0.0
66 2	-9.24e-03	0.07	-0.93	9.53e-05	1.02e-04	0.0
67 1	0.02	0.12	-1.44	1.57e-04	8.31e-05	0.0
67 2	0.02	0.10	-1.23	1.28e-04	6.00e-05	0.0
68 1	0.07	0.13	-1.79	1.76e-04	1.63e-05	0.0
68 2	0.06	0.11	-1.50	1.41e-04	7.22e-06	0.0
69 1	0.13	0.12	-2.07	1.66e-04	-5.30e-05	0.0
69 2	0.10	0.10	-1.72	1.32e-04	-4.73e-05	0.0
70 1	0.17	0.10	-2.29	1.30e-04	-1.13e-04	0.0
70 2	0.14	0.08	-1.88	1.03e-04	-9.46e-05	0.0
71 1	0.21	1.15e-03	-2.47	2.39e-06	-1.70e-04	0.0
71 2	0.17	8.87e-04	-2.02	1.84e-06	-1.39e-04	0.0
72 1	0.20	-0.05	-2.44	-6.74e-05	-1.57e-04	0.0
72 2	0.16	-0.04	-2.00	-5.35e-05	-1.28e-04	0.0
73 1	0.17	-0.09	-2.31	-1.26e-04	-1.17e-04	0.0
73 2	0.14	-0.08	-1.90	-1.00e-04	-9.74e-05	0.0
74 1	0.13	-0.12	-2.11	-1.64e-04	-5.79e-05	0.0
74 2	0.11	-0.10	-1.74	-1.31e-04	-5.10e-05	0.0
75 1	0.08	-0.13	-1.83	-1.76e-04	1.09e-05	0.0



75 2	0.07	-0.11	-1.53	-1.41e-04	3.03e-06	0.0
76 1	0.03	-0.12	-1.50	-1.60e-04	7.79e-05	0.0
76 2	0.03	-0.10	-1.27	-1.30e-04	5.60e-05	0.0
77 1	-0.01	-0.09	-1.12	-1.18e-04	1.32e-04	0.0
77 2	-6.79e-03	-0.08	-0.98	-9.86e-05	9.92e-05	0.0
78 1	-0.04	-0.05	-0.71	-5.96e-05	1.65e-04	0.0
78 2	-0.03	-0.04	-0.67	-5.38e-05	1.26e-04	0.0
79 1	-0.04	-3.89e-04	-0.30	6.17e-06	1.71e-04	0.0
79 2	-0.03	-7.78e-03	-0.35	-3.21e-06	1.32e-04	0.0
79 3	-0.02	-0.02	-0.41	-1.56e-05	7.91e-05	0.0
80 1	-0.03	0.05	0.11	6.78e-05	1.50e-04	0.0
80 2	-0.02	0.03	-0.03	4.45e-05	1.18e-04	0.0
80 3	-0.02	3.82e-03	-0.22	1.32e-05	7.32e-05	0.0
81 1	3.46e-03	0.08	0.50	1.15e-04	1.07e-04	0.0
81 2	-1.10e-03	0.06	0.26	8.13e-05	8.60e-05	0.0
81 3	-9.31e-03	0.02	-0.05	3.61e-05	5.68e-05	0.0
82 1	0.05	0.10	0.84	1.39e-04	4.85e-05	0.0
82 2	0.03	0.07	0.52	1.01e-04	4.27e-05	0.0
83 1	0.09	0.10	1.12	1.37e-04	-1.36e-05	0.0
83 2	0.06	0.07	0.74	1.01e-04	-4.01e-06	0.0
84 1	0.13	0.08	1.34	1.10e-04	-6.87e-05	0.0
84 2	0.09	0.06	0.91	8.12e-05	-4.55e-05	0.0
85 1	0.16	0.04	1.47	6.23e-05	-1.07e-04	0.0
85 2	0.11	0.03	1.01	4.63e-05	-7.44e-05	0.0
86 1	0.17	2.04e-03	1.53	3.35e-06	-1.21e-04	0.0
86 2	0.12	1.57e-03	1.05	2.57e-06	-8.54e-05	0.0
87 1	0.16	-0.04	1.49	-5.63e-05	-1.10e-04	0.0
87 2	0.12	-0.03	1.03	-4.17e-05	-7.66e-05	0.0
88 1	0.13	-0.08	1.37	-1.06e-04	-7.38e-05	0.0
88 2	0.10	-0.06	0.93	-7.80e-05	-4.95e-05	0.0
89 1	0.09	-0.10	1.17	-1.36e-04	-2.00e-05	0.0
89 2	0.07	-0.07	0.78	-9.97e-05	-8.89e-06	0.0
90 1	0.05	-0.10	0.90	-1.40e-04	4.22e-05	0.0
90 2	0.03	-0.07	0.57	-1.02e-04	3.78e-05	0.0
91 1	0.07	-0.12	0.68	-1.51e-04	6.32e-06	0.0
91 2	0.05	-0.08	0.42	-1.09e-04	1.15e-05	0.0
92 1	0.02	-0.10	0.41	-1.27e-04	7.04e-05	0.0
92 2	0.01	-0.07	0.22	-8.87e-05	5.92e-05	0.0
93 1	-0.02	-0.06	0.11	-7.68e-05	1.20e-04	0.0
93 2	-0.02	-0.03	-0.02	-4.96e-05	9.50e-05	0.0
93 3	-0.02	-3.20e-03	-0.21	-9.85e-06	6.25e-05	0.0
94 1	-0.04	-4.13e-03	-0.22	-1.00e-05	1.44e-04	0.0
94 2	-0.03	5.93e-03	-0.27	2.21e-06	1.12e-04	0.0
94 3	-0.02	0.02	-0.35	2.18e-05	6.79e-05	0.0
95 1	-0.03	0.05	-0.55	6.23e-05	1.39e-04	0.0
95 2	-0.02	0.05	-0.53	5.79e-05	1.06e-04	0.0



96 1	-4.26e-03	0.10	-0.88	1.28e-04	1.05e-04	0.0
96 2	-4.48e-04	0.09	-0.78	1.08e-04	7.76e-05	0.0
97 1	0.04	0.14	-1.19	1.74e-04	4.62e-05	0.0
97 2	0.04	0.12	-1.02	1.43e-04	3.05e-05	0.0
98 1	0.10	0.15	-1.46	1.94e-04	-2.74e-05	0.0
98 2	0.08	0.13	-1.23	1.57e-04	-2.78e-05	0.0
99 1	0.16	0.15	-1.69	1.83e-04	-1.04e-04	0.0
99 2	0.13	0.12	-1.40	1.47e-04	-8.79e-05	0.0
1001	0.21	0.11	-1.86	1.43e-04	-1.70e-04	0.0
1002	0.17	0.09	-1.53	1.14e-04	-1.40e-04	0.0
1011	0.25	0.06	-1.97	7.87e-05	-2.15e-04	0.0
1012	0.20	0.05	-1.62	6.26e-05	-1.76e-04	0.0
1021	0.26	1.31e-03	-2.01	2.11e-06	-2.32e-04	0.0
1022	0.21	1.01e-03	-1.65	1.63e-06	-1.89e-04	0.0
1031	0.25	-0.06	-1.98	-7.51e-05	-2.18e-04	0.0
1032	0.20	-0.05	-1.62	-5.98e-05	-1.77e-04	0.0
1041	0.22	-0.11	-1.88	-1.40e-04	-1.74e-04	0.0
1042	0.18	-0.09	-1.55	-1.12e-04	-1.43e-04	0.0
1051	0.17	-0.15	-1.72	-1.83e-04	-1.09e-04	0.0
1052	0.14	-0.12	-1.42	-1.46e-04	-9.21e-05	0.0
1061	0.11	-0.16	-1.50	-1.96e-04	-3.34e-05	0.0
1062	0.09	-0.13	-1.25	-1.58e-04	-3.24e-05	0.0
1071	0.05	-0.14	-1.23	-1.78e-04	4.05e-05	0.0
1072	0.04	-0.12	-1.05	-1.46e-04	2.62e-05	0.0
1081	-8.27e-04	-0.11	-0.93	-1.34e-04	1.01e-04	0.0
1082	2.19e-03	-0.09	-0.82	-1.12e-04	7.43e-05	0.0
1083	3.66e-03	-0.07	-0.65	-8.30e-05	3.85e-05	0.0
1091	-0.03	-0.06	-0.61	-6.98e-05	1.37e-04	0.0
1092	-0.02	-0.05	-0.57	-6.36e-05	1.04e-04	0.0
1101	-0.04	-2.01e-03	-0.27	2.10e-06	1.45e-04	0.0
1102	-0.03	-0.01	-0.31	-8.31e-06	1.12e-04	0.0
1103	-0.02	-0.02	-0.35	-2.19e-05	6.79e-05	0.0
1111	-0.02	0.05	0.05	6.96e-05	1.23e-04	0.0
1112	-0.02	0.03	-0.06	4.40e-05	9.75e-05	0.0
1113	-0.02	3.16e-03	-0.21	9.82e-06	6.25e-05	0.0
1121	0.02	0.09	0.36	1.21e-04	7.59e-05	0.0
1122	7.71e-03	0.06	0.18	8.46e-05	6.34e-05	0.0
1131	0.07	0.11	0.63	1.48e-04	1.31e-05	0.0
1132	0.04	0.08	0.39	1.07e-04	1.68e-05	0.0
1141	0.12	0.11	0.86	1.47e-04	-5.42e-05	0.0
1142	0.08	0.08	0.56	1.07e-04	-3.36e-05	0.0
1151	0.16	0.09	1.03	1.18e-04	-1.14e-04	0.0
1152	0.12	0.07	0.69	8.65e-05	-7.86e-05	0.0
1161	0.20	0.05	1.14	6.66e-05	-1.55e-04	0.0
1162	0.14	0.04	0.78	4.91e-05	-1.10e-04	0.0
1171	0.21	1.97e-03	1.18	3.00e-06	-1.71e-04	0.0



1172	0.15	1.52e-03	0.81	2.30e-06	-1.22e-04	0.0
1181	0.20	-0.05	1.15	-6.14e-05	-1.59e-04	0.0
1182	0.14	-0.04	0.79	-4.51e-05	-1.12e-04	0.0
1191	0.17	-0.09	1.06	-1.14e-04	-1.19e-04	0.0
1192	0.12	-0.06	0.71	-8.40e-05	-8.28e-05	0.0
1201	0.12	-0.11	0.90	-1.46e-04	-6.11e-05	0.0
1202	0.09	-0.08	0.59	-1.07e-04	-3.89e-05	0.0
1211	-0.02	-0.06	0.13	-8.00e-05	1.29e-04	0.0
1212	-0.02	-0.04	-7.03e-03	-5.20e-05	1.03e-04	0.0
1213	-0.02	-3.82e-03	-0.21	-1.13e-05	6.70e-05	0.0
1221	-0.04	-4.64e-03	-0.22	-1.12e-05	1.55e-04	0.0
1222	-0.03	5.57e-03	-0.27	1.35e-06	1.20e-04	0.0
1223	-0.02	0.02	-0.37	2.14e-05	7.28e-05	0.0
1231	-0.04	0.05	-0.58	6.35e-05	1.50e-04	0.0
1232	-0.03	0.05	-0.55	5.88e-05	1.14e-04	0.0
1241	-8.81e-03	0.11	-0.93	1.31e-04	1.15e-04	0.0
1242	-3.93e-03	0.09	-0.82	1.10e-04	8.53e-05	0.0
1251	0.04	0.14	-1.26	1.79e-04	5.44e-05	0.0
1252	0.03	0.12	-1.07	1.47e-04	3.68e-05	0.0
1261	0.10	0.16	-1.55	2.00e-04	-2.14e-05	0.0
1262	0.08	0.13	-1.30	1.61e-04	-2.32e-05	0.0
1271	0.16	0.15	-1.79	1.89e-04	-1.00e-04	0.0
1272	0.13	0.12	-1.48	1.51e-04	-8.51e-05	0.0
1281	0.21	0.12	-1.97	1.47e-04	-1.68e-04	0.0
1282	0.17	0.09	-1.62	1.17e-04	-1.39e-04	0.0
1291	0.25	0.06	-2.09	8.12e-05	-2.15e-04	0.0
1292	0.20	0.05	-1.71	6.45e-05	-1.75e-04	0.0
1301	0.26	1.35e-03	-2.13	2.28e-06	-2.32e-04	0.0
1302	0.21	1.04e-03	-1.75	1.76e-06	-1.89e-04	0.0
1311	0.25	-0.06	-2.10	-7.72e-05	-2.17e-04	0.0
1312	0.20	-0.05	-1.72	-6.14e-05	-1.77e-04	0.0
1321	0.22	-0.11	-1.99	-1.44e-04	-1.73e-04	0.0
1322	0.18	-0.09	-1.64	-1.15e-04	-1.42e-04	0.0
1331	0.16	-0.15	-1.82	-1.88e-04	-1.06e-04	0.0
1332	0.13	-0.12	-1.51	-1.50e-04	-8.94e-05	0.0
1341	0.10	-0.16	-1.59	-2.01e-04	-2.76e-05	0.0
1342	0.09	-0.13	-1.33	-1.62e-04	-2.79e-05	0.0
1351	0.04	-0.15	-1.30	-1.83e-04	4.86e-05	0.0
1352	0.04	-0.12	-1.11	-1.50e-04	3.23e-05	0.0
1361	-5.22e-03	-0.11	-0.98	-1.37e-04	1.10e-04	0.0
1362	-1.17e-03	-0.09	-0.86	-1.15e-04	8.18e-05	0.0
1371	-0.04	-0.06	-0.63	-7.10e-05	1.48e-04	0.0
1372	-0.03	-0.05	-0.59	-6.46e-05	1.13e-04	0.0
1381	-0.04	-1.53e-03	-0.28	3.22e-06	1.55e-04	0.0
1382	-0.03	-0.01	-0.32	-7.47e-06	1.21e-04	0.0
1383	-0.02	-0.02	-0.37	-2.14e-05	7.28e-05	0.0



1391	-0.02	0.05	0.07	7.28e-05	1.33e-04	0.0
1392	-0.02	0.03	-0.05	4.65e-05	1.05e-04	0.0
1393	-0.02	3.78e-03	-0.21	1.12e-05	6.70e-05	0.0
1401	0.01	0.09	0.40	1.26e-04	8.41e-05	0.0
1402	4.88e-03	0.06	0.20	8.83e-05	6.97e-05	0.0
1411	0.06	0.12	0.69	1.54e-04	1.92e-05	0.0
1412	0.04	0.08	0.42	1.11e-04	2.14e-05	0.0
1421	0.12	0.12	0.93	1.52e-04	-5.05e-05	0.0
1422	0.08	0.08	0.61	1.11e-04	-3.07e-05	0.0
1431	0.16	0.09	1.11	1.22e-04	-1.12e-04	0.0
1432	0.12	0.07	0.75	8.98e-05	-7.72e-05	0.0
1441	0.20	0.05	1.23	6.90e-05	-1.55e-04	0.0
1442	0.14	0.04	0.84	5.10e-05	-1.10e-04	0.0
1451	0.21	2.13e-03	1.27	3.23e-06	-1.71e-04	0.0
1452	0.15	1.64e-03	0.87	2.48e-06	-1.22e-04	0.0
1461	0.20	-0.05	1.24	-6.34e-05	-1.58e-04	0.0
1462	0.14	-0.04	0.85	-4.67e-05	-1.12e-04	0.0
1471	0.17	-0.09	1.14	-1.18e-04	-1.18e-04	0.0
1472	0.12	-0.07	0.77	-8.70e-05	-8.15e-05	0.0
1481	0.12	-0.12	0.97	-1.52e-04	-5.75e-05	0.0
1482	0.09	-0.08	0.64	-1.11e-04	-3.61e-05	0.0
1491	0.07	-0.12	0.74	-1.56e-04	1.21e-05	0.0
1492	0.05	-0.08	0.46	-1.13e-04	1.60e-05	0.0
1501	0.02	-0.10	0.45	-1.31e-04	7.85e-05	0.0
1502	7.67e-03	-0.07	0.24	-9.23e-05	6.54e-05	0.0
1511	-0.03	-0.06	0.15	-8.31e-05	1.42e-04	0.0
1512	-0.03	-0.04	2.98e-03	-5.45e-05	1.12e-04	0.0
1513	-0.02	-4.81e-03	-0.22	-1.30e-05	7.27e-05	0.0
1521	-0.05	-5.41e-03	-0.22	-1.25e-05	1.69e-04	0.0
1522	-0.04	4.90e-03	-0.28	0.0	1.31e-04	0.0
1523	-0.03	0.02	-0.38	2.05e-05	7.90e-05	0.0
1531	-0.05	0.05	-0.60	6.41e-05	1.64e-04	0.0
1532	-0.03	0.05	-0.57	5.91e-05	1.25e-04	0.0
1541	-0.02	0.11	-0.97	1.33e-04	1.28e-04	0.0
1542	-0.01	0.09	-0.86	1.12e-04	9.55e-05	0.0
1551	0.03	0.14	-1.32	1.83e-04	6.63e-05	0.0
1552	0.03	0.12	-1.13	1.49e-04	4.61e-05	0.0
1561	0.09	0.16	-1.63	2.04e-04	-1.13e-05	0.0
1562	0.08	0.13	-1.37	1.65e-04	-1.53e-05	0.0
1571	0.15	0.15	-1.89	1.93e-04	-9.17e-05	0.0
1572	0.13	0.12	-1.57	1.54e-04	-7.86e-05	0.0
1581	0.21	0.12	-2.09	1.50e-04	-1.62e-04	0.0
1582	0.17	0.09	-1.72	1.20e-04	-1.33e-04	0.0
1591	0.25	0.06	-2.21	8.32e-05	-2.10e-04	0.0
1592	0.20	0.05	-1.81	6.60e-05	-1.71e-04	0.0
1601	0.26	1.45e-03	-2.25	2.49e-06	-2.27e-04	0.0



1602	0.21	1.11e-03	-1.85	1.92e-06	-1.85e-04	0.0
1611	0.25	-0.06	-2.22	-7.87e-05	-2.12e-04	0.0
1612	0.20	-0.05	-1.82	-6.26e-05	-1.73e-04	0.0
1621	0.21	-0.12	-2.11	-1.47e-04	-1.66e-04	0.0
1622	0.17	-0.09	-1.73	-1.17e-04	-1.37e-04	0.0
1631	0.16	-0.15	-1.92	-1.92e-04	-9.75e-05	0.0
1632	0.13	-0.12	-1.59	-1.53e-04	-8.30e-05	0.0
1641	0.10	-0.16	-1.68	-2.05e-04	-1.76e-05	0.0
1642	0.08	-0.13	-1.40	-1.65e-04	-2.02e-05	0.0
1651	0.04	-0.15	-1.37	-1.87e-04	6.03e-05	0.0
1652	0.03	-0.12	-1.17	-1.52e-04	4.14e-05	0.0
1661	-0.01	-0.11	-1.03	-1.39e-04	1.23e-04	0.0
1662	-7.19e-03	-0.09	-0.90	-1.16e-04	9.19e-05	0.0
1671	-0.04	-0.06	-0.66	-7.14e-05	1.62e-04	0.0
1672	-0.03	-0.05	-0.62	-6.47e-05	1.23e-04	0.0
1681	-0.05	-6.71e-04	-0.29	4.70e-06	1.69e-04	0.0
1682	-0.04	-9.58e-03	-0.33	-6.21e-06	1.31e-04	0.0
1683	-0.03	-0.02	-0.38	-2.05e-05	7.90e-05	0.0
1691	-0.03	0.05	0.08	7.60e-05	1.45e-04	0.0
1692	-0.03	0.03	-0.05	4.91e-05	1.15e-04	0.0
1693	-0.02	4.78e-03	-0.22	1.30e-05	7.28e-05	0.0
1701	5.49e-03	0.10	0.43	1.30e-04	9.55e-05	0.0
1702	-3.31e-04	0.07	0.22	9.18e-05	7.84e-05	0.0
1703	-0.01	0.03	-0.06	3.95e-05	5.43e-05	0.0
1711	0.06	0.12	0.74	1.59e-04	2.87e-05	0.0
1712	0.04	0.09	0.46	1.15e-04	2.87e-05	0.0
1721	0.11	0.12	1.00	1.57e-04	-4.29e-05	0.0
1722	0.08	0.09	0.66	1.15e-04	-2.50e-05	0.0
1731	0.16	0.10	1.19	1.26e-04	-1.06e-04	0.0
1732	0.11	0.07	0.81	9.28e-05	-7.28e-05	0.0
1741	0.19	0.05	1.32	7.13e-05	-1.50e-04	0.0
1742	0.14	0.04	0.90	5.28e-05	-1.06e-04	0.0
1751	0.21	2.35e-03	1.36	3.52e-06	-1.67e-04	0.0
1752	0.15	1.81e-03	0.94	2.71e-06	-1.19e-04	0.0
1761	0.20	-0.05	1.33	-6.50e-05	-1.54e-04	0.0
1762	0.14	-0.04	0.91	-4.80e-05	-1.09e-04	0.0
1771	0.16	-0.09	1.22	-1.22e-04	-1.12e-04	0.0
1772	0.12	-0.07	0.83	-8.96e-05	-7.73e-05	0.0
1781	0.12	-0.12	1.04	-1.56e-04	-5.01e-05	0.0
1782	0.08	-0.09	0.69	-1.14e-04	-3.06e-05	0.0
1791	0.06	-0.12	0.79	-1.61e-04	2.15e-05	0.0
1792	0.04	-0.09	0.50	-1.17e-04	2.31e-05	0.0
1801	9.16e-03	-0.10	0.49	-1.36e-04	8.97e-05	0.0
1802	2.49e-03	-0.07	0.27	-9.57e-05	7.40e-05	0.0
1803	-0.01	-0.03	-0.06	-3.96e-05	5.42e-05	0.0
1811	6.96e-04	-0.10	0.53	-1.35e-04	1.02e-04	0.0



1812	-3.80e-03	-0.07	0.29	-9.54e-05	8.30e-05	0.0
1813	-0.01	-0.03	-0.05	-4.04e-05	5.89e-05	0.0
1821	-0.04	-0.06	0.17	-8.30e-05	1.54e-04	0.0
1822	-0.03	-0.04	0.01	-5.50e-05	1.21e-04	0.0
1823	-0.03	-5.70e-03	-0.22	-1.43e-05	7.75e-05	0.0
1831	-0.06	-6.01e-03	-0.22	-1.35e-05	1.80e-04	0.0
1832	-0.05	4.00e-03	-0.29	-1.10e-06	1.40e-04	0.0
1833	-0.03	0.02	-0.40	1.85e-05	8.40e-05	0.0
1841	-0.05	0.05	-0.63	6.20e-05	1.76e-04	0.0
1842	-0.04	0.05	-0.60	5.70e-05	1.34e-04	0.0
1851	-0.03	0.10	-1.02	1.30e-04	1.41e-04	0.0
1852	-0.02	0.09	-0.90	1.09e-04	1.05e-04	0.0
1861	0.02	0.14	-1.39	1.80e-04	8.01e-05	0.0
1862	0.02	0.12	-1.19	1.46e-04	5.70e-05	0.0
1871	0.08	0.16	-1.72	2.01e-04	3.91e-06	0.0
1872	0.07	0.13	-1.44	1.61e-04	-3.23e-06	0.0
1881	0.14	0.15	-2.00	1.90e-04	-7.52e-05	0.0
1882	0.12	0.12	-1.65	1.51e-04	-6.54e-05	0.0
1891	0.20	0.11	-2.20	1.48e-04	-1.44e-04	0.0
1892	0.16	0.09	-1.81	1.17e-04	-1.19e-04	0.0
1901	0.23	0.06	-2.33	8.19e-05	-1.91e-04	0.0
1902	0.19	0.05	-1.91	6.49e-05	-1.56e-04	0.0
1911	0.25	1.52e-03	-2.38	2.65e-06	-2.09e-04	0.0
1912	0.20	1.17e-03	-1.95	2.04e-06	-1.70e-04	0.0
1921	0.23	-0.06	-2.34	-7.71e-05	-1.93e-04	0.0
1922	0.19	-0.05	-1.92	-6.12e-05	-1.58e-04	0.0
1931	0.20	-0.11	-2.23	-1.44e-04	-1.48e-04	0.0
1932	0.16	-0.09	-1.83	-1.15e-04	-1.23e-04	0.0
1941	0.15	-0.15	-2.03	-1.88e-04	-8.09e-05	0.0
1942	0.12	-0.12	-1.68	-1.50e-04	-6.97e-05	0.0
1951	0.09	-0.16	-1.77	-2.01e-04	-2.36e-06	0.0
1952	0.07	-0.13	-1.48	-1.62e-04	-8.05e-06	0.0
1961	0.03	-0.14	-1.45	-1.83e-04	7.41e-05	0.0
1962	0.02	-0.12	-1.23	-1.48e-04	5.24e-05	0.0
1971	-0.02	-0.11	-1.08	-1.36e-04	1.36e-04	0.0
1972	-0.01	-0.09	-0.95	-1.13e-04	1.02e-04	0.0
1981	-0.05	-0.06	-0.69	-6.88e-05	1.73e-04	0.0
1982	-0.04	-0.05	-0.65	-6.22e-05	1.32e-04	0.0
1991	-0.06	3.49e-04	-0.29	6.19e-06	1.81e-04	0.0
1992	-0.05	-8.35e-03	-0.34	-4.50e-06	1.40e-04	0.0
1993	-0.03	-0.02	-0.40	-1.86e-05	8.40e-05	0.0
2001	-0.04	0.05	0.10	7.64e-05	1.57e-04	0.0
2002	-0.03	0.03	-0.04	4.99e-05	1.24e-04	0.0
2003	-0.03	5.67e-03	-0.22	1.43e-05	7.75e-05	0.0
2011	-2.85e-03	0.10	0.47	1.30e-04	1.08e-04	0.0
2012	-6.53e-03	0.07	0.24	9.19e-05	8.74e-05	0.0





2013	-0.01	0.03	-0.05	4.04e-05	5.90e-05	0.0
2021	0.05	0.12	0.80	1.58e-04	4.14e-05	0.0
2022	0.03	0.08	0.50	1.14e-04	3.81e-05	0.0
2031	0.10	0.12	1.07	1.56e-04	-2.93e-05	0.0
2032	0.07	0.09	0.71	1.14e-04	-1.50e-05	0.0
2041	0.15	0.09	1.27	1.25e-04	-9.19e-05	0.0
2042	0.11	0.07	0.86	9.22e-05	-6.22e-05	0.0
2051	0.18	0.05	1.41	7.07e-05	-1.35e-04	0.0
2052	0.13	0.04	0.96	5.25e-05	-9.50e-05	0.0
2061	0.19	2.53e-03	1.46	3.73e-06	-1.52e-04	0.0
2062	0.14	1.95e-03	1.00	2.87e-06	-1.08e-04	0.0
2071	0.18	-0.05	1.42	-6.41e-05	-1.39e-04	0.0
2072	0.13	-0.04	0.98	-4.74e-05	-9.75e-05	0.0
2081	0.15	-0.09	1.31	-1.20e-04	-9.77e-05	0.0
2082	0.11	-0.07	0.89	-8.87e-05	-6.67e-05	0.0
2091	0.11	-0.12	1.11	-1.54e-04	-3.65e-05	0.0
2092	0.07	-0.08	0.74	-1.13e-04	-2.05e-05	0.0
2101	0.05	-0.12	0.85	-1.60e-04	3.43e-05	0.0
2102	0.03	-0.09	0.54	-1.16e-04	3.26e-05	0.0
2111	-0.03	-0.12	0.61	-1.54e-04	1.36e-04	0.0
2112	-0.03	-0.08	0.34	-1.09e-04	1.10e-04	0.0
2113	-0.03	-0.03	-0.05	-4.71e-05	7.59e-05	0.0
2121	-0.07	-0.07	0.21	-9.51e-05	1.95e-04	0.0
2122	-0.06	-0.05	0.03	-6.34e-05	1.53e-04	0.0
2123	-0.04	-8.62e-03	-0.23	-1.76e-05	9.72e-05	0.0
2131	-0.10	-8.44e-03	-0.23	-1.62e-05	2.26e-04	0.0
2132	-0.08	3.18e-03	-0.30	-2.20e-06	1.75e-04	0.0
2133	-0.05	0.02	-0.43	1.97e-05	1.05e-04	0.0
2141	-0.09	0.06	-0.68	6.97e-05	2.21e-04	0.0
2142	-0.07	0.06	-0.65	6.38e-05	1.69e-04	0.0
2151	-0.06	0.12	-1.11	1.47e-04	1.81e-04	0.0
2152	-0.04	0.10	-0.98	1.23e-04	1.36e-04	0.0
2161	-5.00e-03	0.16	-1.53	2.03e-04	1.13e-04	0.0
2162	1.01e-03	0.14	-1.30	1.65e-04	8.14e-05	0.0
2163	8.91e-03	0.10	-1.01	1.15e-04	3.61e-05	0.0
2171	0.06	0.18	-1.89	2.27e-04	2.61e-05	0.0
2172	0.06	0.15	-1.58	1.83e-04	1.32e-05	0.0
2181	0.14	0.17	-2.20	2.15e-04	-6.36e-05	0.0
2182	0.11	0.14	-1.82	1.71e-04	-5.73e-05	0.0
2191	0.20	0.13	-2.43	1.68e-04	-1.42e-04	0.0
2192	0.16	0.11	-1.99	1.33e-04	-1.18e-04	0.0
2201	0.24	0.07	-2.57	9.32e-05	-1.95e-04	0.0
2202	0.20	0.06	-2.10	7.38e-05	-1.60e-04	0.0
2211	0.26	2.13e-03	-2.62	3.38e-06	-2.15e-04	0.0
2212	0.21	1.64e-03	-2.14	2.60e-06	-1.76e-04	0.0
2221	0.24	-0.07	-2.58	-8.70e-05	-1.98e-04	0.0



2222	0.20	-0.06	-2.11	-6.91e-05	-1.62e-04	0.0
2231	0.20	-0.13	-2.45	-1.63e-04	-1.47e-04	0.0
2232	0.17	-0.11	-2.01	-1.30e-04	-1.22e-04	0.0
2241	0.14	-0.17	-2.23	-2.12e-04	-7.01e-05	0.0
2242	0.12	-0.14	-1.85	-1.69e-04	-6.23e-05	0.0
2251	0.07	-0.18	-1.94	-2.27e-04	1.89e-05	0.0
2252	0.06	-0.15	-1.62	-1.83e-04	7.69e-06	0.0
2261	8.94e-04	-0.17	-1.59	-2.06e-04	1.06e-04	0.0
2262	5.55e-03	-0.14	-1.35	-1.67e-04	7.62e-05	0.0
2263	8.89e-03	-0.10	-1.01	-1.15e-04	3.62e-05	0.0
2271	-0.06	-0.13	-1.18	-1.52e-04	1.76e-04	0.0
2272	-0.04	-0.11	-1.04	-1.27e-04	1.32e-04	0.0
2281	-0.09	-0.07	-0.75	-7.64e-05	2.18e-04	0.0
2282	-0.07	-0.06	-0.70	-6.90e-05	1.67e-04	0.0
2291	-0.10	2.57e-03	-0.31	8.84e-06	2.26e-04	0.0
2292	-0.08	-7.70e-03	-0.36	-3.43e-06	1.75e-04	0.0
2293	-0.05	-0.02	-0.43	-1.98e-05	1.05e-04	0.0
2301	-0.08	0.07	0.13	8.86e-05	1.99e-04	0.0
2302	-0.06	0.04	-0.03	5.84e-05	1.56e-04	0.0
2303	-0.04	8.59e-03	-0.23	1.76e-05	9.73e-05	0.0
2311	-0.03	0.12	0.54	1.49e-04	1.42e-04	0.0
2312	-0.03	0.08	0.29	1.06e-04	1.15e-04	0.0
2321	0.03	0.14	0.90	1.81e-04	6.68e-05	0.0
2322	0.01	0.10	0.57	1.32e-04	5.83e-05	0.0
2331	0.09	0.14	1.21	1.78e-04	-1.37e-05	0.0
2332	0.06	0.10	0.80	1.31e-04	-2.25e-06	0.0
2341	0.15	0.11	1.43	1.43e-04	-8.51e-05	0.0
2342	0.10	0.08	0.98	1.06e-04	-5.61e-05	0.0
2351	0.19	0.06	1.58	8.12e-05	-1.35e-04	0.0
2352	0.13	0.05	1.09	6.03e-05	-9.35e-05	0.0
2361	0.20	3.53e-03	1.64	4.73e-06	-1.53e-04	0.0
2362	0.15	2.72e-03	1.13	3.64e-06	-1.08e-04	0.0
2371	0.19	-0.06	1.60	-7.26e-05	-1.38e-04	0.0
2372	0.14	-0.04	1.10	-5.37e-05	-9.62e-05	0.0
2381	0.15	-0.11	1.47	-1.37e-04	-9.16e-05	0.0
2382	0.11	-0.08	1.00	-1.01e-04	-6.11e-05	0.0
2391	0.10	-0.14	1.26	-1.76e-04	-2.18e-05	0.0
2392	0.07	-0.10	0.84	-1.29e-04	-8.43e-06	0.0
2401	0.03	-0.14	0.97	-1.82e-04	5.89e-05	0.0
2402	0.02	-0.10	0.62	-1.32e-04	5.22e-05	0.0
2411	-0.05	-0.13	0.65	-1.65e-04	1.58e-04	0.0
2412	-0.04	-0.09	0.37	-1.17e-04	1.27e-04	0.0
2421	-0.10	-0.08	0.23	-1.02e-04	2.22e-04	0.0
2422	-0.08	-0.05	0.04	-6.82e-05	1.74e-04	0.0
2423	-0.06	-0.01	-0.24	-1.92e-05	1.10e-04	0.0
2431	-0.13	-9.97e-03	-0.23	-1.74e-05	2.55e-04	0.0



2432	-0.10	2.81e-03	-0.31	-2.47e-06	1.97e-04	0.0
2433	-0.06	0.02	-0.45	2.09e-05	1.18e-04	0.0
2441	-0.12	0.07	-0.70	7.48e-05	2.50e-04	0.0
2442	-0.09	0.06	-0.67	6.85e-05	1.91e-04	0.0
2451	-0.09	0.13	-1.16	1.58e-04	2.07e-04	0.0
2452	-0.06	0.11	-1.03	1.32e-04	1.56e-04	0.0
2461	-0.02	0.18	-1.60	2.19e-04	1.34e-04	0.0
2462	-0.01	0.15	-1.36	1.78e-04	9.73e-05	0.0
2471	0.05	0.20	-1.98	2.44e-04	4.08e-05	0.0
2472	0.05	0.16	-1.66	1.96e-04	2.40e-05	0.0
2481	0.13	0.19	-2.30	2.31e-04	-5.56e-05	0.0
2482	0.11	0.15	-1.90	1.84e-04	-5.17e-05	0.0
2491	0.20	0.15	-2.54	1.80e-04	-1.40e-04	0.0
2492	0.16	0.12	-2.09	1.43e-04	-1.17e-04	0.0
2501	0.25	0.08	-2.70	1.00e-04	-1.97e-04	0.0
2502	0.20	0.07	-2.21	7.94e-05	-1.62e-04	0.0
2511	0.27	2.59e-03	-2.75	3.84e-06	-2.18e-04	0.0
2512	0.22	1.99e-03	-2.25	2.96e-06	-1.79e-04	0.0
2521	0.25	-0.08	-2.71	-9.32e-05	-2.00e-04	0.0
2522	0.20	-0.06	-2.22	-7.40e-05	-1.64e-04	0.0
2531	0.21	-0.15	-2.57	-1.75e-04	-1.45e-04	0.0
2532	0.17	-0.12	-2.11	-1.39e-04	-1.21e-04	0.0
2541	0.14	-0.19	-2.34	-2.28e-04	-6.26e-05	0.0
2542	0.11	-0.15	-1.94	-1.82e-04	-5.70e-05	0.0
2551	0.06	-0.20	-2.04	-2.44e-04	3.31e-05	0.0
2552	0.05	-0.16	-1.70	-1.96e-04	1.81e-05	0.0
2561	-0.02	-0.19	-1.66	-2.21e-04	1.26e-04	0.0
2562	-8.84e-03	-0.15	-1.41	-1.79e-04	9.16e-05	0.0
2571	-0.08	-0.14	-1.24	-1.63e-04	2.02e-04	0.0
2572	-0.06	-0.12	-1.08	-1.36e-04	1.52e-04	0.0
2581	-0.12	-0.07	-0.78	-8.15e-05	2.47e-04	0.0
2582	-0.09	-0.07	-0.73	-7.36e-05	1.89e-04	0.0
2591	-0.13	4.01e-03	-0.31	1.02e-05	2.55e-04	0.0
2592	-0.10	-7.40e-03	-0.37	-3.12e-06	1.97e-04	0.0
2593	-0.06	-0.02	-0.45	-2.09e-05	1.18e-04	0.0
2601	-0.10	0.07	0.15	9.59e-05	2.26e-04	0.0
2602	-0.08	0.05	-0.02	6.33e-05	1.77e-04	0.0
2603	-0.06	0.01	-0.24	1.91e-05	1.10e-04	0.0
2611	-0.05	0.13	0.58	1.61e-04	1.65e-04	0.0
2612	-0.05	0.09	0.31	1.14e-04	1.32e-04	0.0
2621	0.01	0.16	0.96	1.95e-04	8.39e-05	0.0
2622	2.26e-03	0.11	0.60	1.42e-04	7.19e-05	0.0
2623	-0.01	0.05	0.13	6.90e-05	5.46e-05	0.0
2631	0.08	0.16	1.28	1.92e-04	-2.73e-06	0.0
2632	0.06	0.11	0.85	1.41e-04	6.80e-06	0.0
2641	0.15	0.12	1.52	1.54e-04	-7.95e-05	0.0



2642	0.10	0.09	1.04	1.14e-04	-5.11e-05	0.0
2651	0.19	0.07	1.67	8.76e-05	-1.33e-04	0.0
2652	0.13	0.05	1.15	6.51e-05	-9.13e-05	0.0
2661	0.21	4.26e-03	1.73	5.39e-06	-1.53e-04	0.0
2662	0.15	3.28e-03	1.20	4.14e-06	-1.07e-04	0.0
2671	0.19	-0.06	1.69	-7.78e-05	-1.36e-04	0.0
2672	0.14	-0.05	1.17	-5.76e-05	-9.42e-05	0.0
2681	0.15	-0.12	1.56	-1.47e-04	-8.64e-05	0.0
2682	0.11	-0.09	1.06	-1.08e-04	-5.64e-05	0.0
2691	0.09	-0.15	1.33	-1.89e-04	-1.13e-05	0.0
2692	0.06	-0.11	0.89	-1.39e-04	0.0	0.0
2701	0.02	-0.16	1.03	-1.95e-04	7.55e-05	0.0
2702	6.75e-03	-0.11	0.66	-1.42e-04	6.54e-05	0.0
2711	-0.13	-0.09	0.25	-1.06e-04	2.48e-04	0.0
2712	-0.10	-0.06	0.05	-7.09e-05	1.95e-04	0.0
2721	-0.16	-0.01	-0.23	-1.82e-05	2.83e-04	0.0
2722	-0.12	2.41e-03	-0.32	-2.72e-06	2.19e-04	0.0
2723	-0.08	0.02	-0.46	2.13e-05	1.31e-04	0.0
2731	-0.15	0.07	-0.73	7.76e-05	2.78e-04	0.0
2732	-0.12	0.06	-0.70	7.10e-05	2.12e-04	0.0
2741	-0.11	0.14	-1.21	1.64e-04	2.33e-04	0.0
2742	-0.08	0.12	-1.07	1.37e-04	1.76e-04	0.0
2751	-0.05	0.19	-1.67	2.27e-04	1.57e-04	0.0
2752	-0.03	0.16	-1.42	1.84e-04	1.15e-04	0.0
2761	0.03	0.22	-2.07	2.54e-04	6.07e-05	0.0
2762	0.03	0.17	-1.73	2.04e-04	3.91e-05	0.0
2771	0.12	0.20	-2.41	2.40e-04	-3.94e-05	0.0
2772	0.10	0.16	-1.99	1.91e-04	-3.95e-05	0.0
2781	0.19	0.16	-2.66	1.87e-04	-1.27e-04	0.0
2782	0.16	0.13	-2.19	1.49e-04	-1.08e-04	0.0
2791	0.24	0.09	-2.82	1.04e-04	-1.86e-04	0.0
2792	0.20	0.07	-2.31	8.26e-05	-1.54e-04	0.0
2801	0.26	3.05e-03	-2.88	4.28e-06	-2.08e-04	0.0
2802	0.21	2.34e-03	-2.35	3.29e-06	-1.71e-04	0.0
2811	0.25	-0.08	-2.84	-9.64e-05	-1.89e-04	0.0
2812	0.20	-0.07	-2.32	-7.65e-05	-1.56e-04	0.0
2821	0.20	-0.16	-2.69	-1.81e-04	-1.32e-04	0.0
2822	0.16	-0.12	-2.21	-1.44e-04	-1.12e-04	0.0
2831	0.13	-0.20	-2.45	-2.36e-04	-4.66e-05	0.0
2832	0.11	-0.16	-2.03	-1.88e-04	-4.50e-05	0.0
2841	0.04	-0.22	-2.13	-2.52e-04	5.26e-05	0.0
2842	0.04	-0.18	-1.78	-2.03e-04	3.29e-05	0.0
2851	-0.04	-0.20	-1.74	-2.28e-04	1.49e-04	0.0
2852	-0.03	-0.16	-1.47	-1.86e-04	1.09e-04	0.0
2861	-0.11	-0.15	-1.29	-1.69e-04	2.27e-04	0.0
2862	-0.08	-0.12	-1.13	-1.41e-04	1.71e-04	0.0



2871	-0.15	-0.08	-0.81	-8.38e-05	2.74e-04	0.0
2872	-0.11	-0.07	-0.76	-7.57e-05	2.10e-04	0.0
2881	-0.16	5.45e-03	-0.32	1.14e-05	2.83e-04	0.0
2882	-0.12	-6.79e-03	-0.39	-2.50e-06	2.19e-04	0.0
2883	-0.08	-0.02	-0.46	-2.13e-05	1.31e-04	0.0
2891	-0.13	0.08	0.16	1.00e-04	2.52e-04	0.0
2892	-0.10	0.05	-0.02	6.65e-05	1.98e-04	0.0
2893	-0.07	0.01	-0.24	2.03e-05	1.23e-04	0.0
2901	-0.08	0.14	0.61	1.68e-04	1.89e-04	0.0
2902	-0.07	0.10	0.33	1.20e-04	1.51e-04	0.0
2911	-7.30e-03	0.17	1.01	2.03e-04	1.05e-04	0.0
2912	-0.01	0.12	0.64	1.48e-04	8.81e-05	0.0
2913	-0.02	0.06	0.14	7.20e-05	6.47e-05	0.0
2921	0.07	0.17	1.35	2.00e-04	1.47e-05	0.0
2922	0.04	0.12	0.90	1.47e-04	2.04e-05	0.0
2931	0.14	0.13	1.60	1.61e-04	-6.51e-05	0.0
2932	0.09	0.10	1.09	1.19e-04	-3.97e-05	0.0
2941	0.18	0.08	1.76	9.15e-05	-1.20e-04	0.0
2942	0.13	0.06	1.22	6.80e-05	-8.15e-05	0.0
2951	0.20	4.97e-03	1.82	5.99e-06	-1.41e-04	0.0
2952	0.14	3.82e-03	1.26	4.60e-06	-9.74e-05	0.0
2961	0.18	-0.07	1.78	-8.05e-05	-1.24e-04	0.0
2962	0.13	-0.05	1.23	-5.96e-05	-8.45e-05	0.0
2971	0.14	-0.13	1.64	-1.52e-04	-7.22e-05	0.0
2972	0.10	-0.09	1.12	-1.12e-04	-4.52e-05	0.0
2981	0.07	-0.16	1.41	-1.96e-04	5.83e-06	0.0
2982	0.05	-0.12	0.94	-1.44e-04	1.37e-05	0.0
2991	-1.07e-03	-0.17	1.08	-2.03e-04	9.60e-05	0.0
2992	-8.21e-03	-0.12	0.70	-1.48e-04	8.14e-05	0.0
2993	-0.02	-0.06	0.14	-7.20e-05	6.46e-05	0.0
3001	-0.07	-0.14	0.69	-1.71e-04	1.82e-04	0.0
3002	-0.06	-0.10	0.39	-1.22e-04	1.46e-04	0.0
3011	-0.03	-0.18	1.14	-2.07e-04	1.22e-04	0.0
3012	-0.03	-0.13	0.73	-1.51e-04	1.01e-04	0.0
3013	-0.04	-0.06	0.15	-7.39e-05	7.66e-05	0.0
3021	-0.10	-0.15	0.73	-1.75e-04	2.10e-04	0.0
3022	-0.08	-0.10	0.42	-1.25e-04	1.67e-04	0.0
3031	-0.16	-0.09	0.26	-1.09e-04	2.78e-04	0.0
3032	-0.13	-0.06	0.06	-7.26e-05	2.17e-04	0.0
3041	-0.19	-0.01	-0.24	-1.87e-05	3.13e-04	0.0
3042	-0.15	1.95e-03	-0.33	-2.98e-06	2.42e-04	0.0
3043	-0.09	0.02	-0.48	2.12e-05	1.45e-04	0.0
3051	-0.18	0.07	-0.76	7.91e-05	3.08e-04	0.0
3052	-0.14	0.07	-0.73	7.23e-05	2.36e-04	0.0
3061	-0.14	0.15	-1.26	1.68e-04	2.63e-04	0.0
3062	-0.11	0.13	-1.12	1.40e-04	1.99e-04	0.0



3071	-0.08	0.20	-1.74	2.32e-04	1.85e-04	0.0
3072	-0.05	0.17	-1.48	1.88e-04	1.36e-04	0.0
3081	9.98e-03	0.23	-2.16	2.59e-04	8.64e-05	0.0
3082	0.02	0.18	-1.81	2.08e-04	5.88e-05	0.0
3083	0.02	0.12	-1.34	1.38e-04	1.78e-05	0.0
3091	0.10	0.21	-2.51	2.45e-04	-1.57e-05	0.0
3092	0.09	0.17	-2.08	1.95e-04	-2.14e-05	0.0
3101	0.18	0.17	-2.78	1.92e-04	-1.05e-04	0.0
3102	0.15	0.13	-2.28	1.52e-04	-9.10e-05	0.0
3111	0.23	0.09	-2.94	1.07e-04	-1.65e-04	0.0
3112	0.19	0.07	-2.41	8.45e-05	-1.38e-04	0.0
3121	0.25	3.56e-03	-3.00	4.75e-06	-1.88e-04	0.0
3122	0.20	2.74e-03	-2.46	3.66e-06	-1.56e-04	0.0
3131	0.23	-0.09	-2.96	-9.79e-05	-1.68e-04	0.0
3132	0.19	-0.07	-2.42	-7.77e-05	-1.41e-04	0.0
3141	0.18	-0.16	-2.81	-1.84e-04	-1.10e-04	0.0
3142	0.15	-0.13	-2.30	-1.46e-04	-9.52e-05	0.0
3151	0.11	-0.21	-2.56	-2.40e-04	-2.31e-05	0.0
3152	0.09	-0.17	-2.11	-1.92e-04	-2.70e-05	0.0
3161	0.02	-0.23	-2.22	-2.57e-04	7.82e-05	0.0
3162	0.02	-0.18	-1.85	-2.06e-04	5.25e-05	0.0
3163	0.02	-0.12	-1.34	-1.38e-04	1.78e-05	0.0
3171	-0.07	-0.21	-1.81	-2.32e-04	1.77e-04	0.0
3172	-0.05	-0.17	-1.54	-1.89e-04	1.30e-04	0.0
3181	-0.14	-0.15	-1.34	-1.71e-04	2.56e-04	0.0
3182	-0.10	-0.13	-1.18	-1.43e-04	1.94e-04	0.0
3191	-0.18	-0.08	-0.84	-8.45e-05	3.04e-04	0.0
3192	-0.14	-0.07	-0.79	-7.64e-05	2.33e-04	0.0
3201	-0.19	7.04e-03	-0.33	1.27e-05	3.13e-04	0.0
3202	-0.15	-5.89e-03	-0.40	-1.63e-06	2.42e-04	0.0
3203	-0.09	-0.02	-0.48	-2.12e-05	1.45e-04	0.0
3211	-0.16	0.09	0.17	1.04e-04	2.81e-04	0.0
3212	-0.13	0.06	-0.01	6.88e-05	2.20e-04	0.0
3213	-0.08	0.01	-0.25	2.12e-05	1.36e-04	0.0
3221	-0.11	0.15	0.64	1.73e-04	2.17e-04	0.0
3222	-0.09	0.10	0.35	1.23e-04	1.72e-04	0.0
3231	-0.03	0.18	1.06	2.09e-04	1.30e-04	0.0
3232	-0.03	0.13	0.67	1.52e-04	1.08e-04	0.0
3233	-0.04	0.06	0.15	7.39e-05	7.67e-05	0.0
3241	0.05	0.18	1.41	2.05e-04	3.84e-05	0.0
3242	0.03	0.13	0.94	1.51e-04	3.88e-05	0.0
3251	0.12	0.14	1.68	1.65e-04	-4.31e-05	0.0
3252	0.08	0.10	1.15	1.22e-04	-2.26e-05	0.0
3261	0.17	0.08	1.85	9.40e-05	-9.95e-05	0.0
3262	0.12	0.06	1.28	7.00e-05	-6.53e-05	0.0
3271	0.19	5.75e-03	1.91	6.62e-06	-1.21e-04	0.0



3272	0.13	4.42e-03	1.33	5.10e-06	-8.16e-05	0.0
3281	0.17	-0.07	1.87	-8.18e-05	-1.04e-04	0.0
3282	0.12	-0.05	1.29	-6.06e-05	-6.84e-05	0.0
3291	0.12	-0.13	1.72	-1.55e-04	-5.03e-05	0.0
3292	0.08	-0.10	1.18	-1.15e-04	-2.82e-05	0.0
3301	0.05	-0.17	1.47	-2.00e-04	2.95e-05	0.0
3302	0.03	-0.12	0.99	-1.47e-04	3.19e-05	0.0
3311	0.03	-0.18	1.54	-2.01e-04	5.89e-05	0.0
3312	0.01	-0.13	1.03	-1.48e-04	5.45e-05	0.0
3321	-0.06	-0.18	1.19	-2.08e-04	1.52e-04	0.0
3322	-0.05	-0.13	0.76	-1.52e-04	1.24e-04	0.0
3331	-0.13	-0.15	0.76	-1.76e-04	2.41e-04	0.0
3332	-0.11	-0.11	0.43	-1.26e-04	1.91e-04	0.0
3341	-0.19	-0.09	0.28	-1.09e-04	3.09e-04	0.0
3342	-0.15	-0.06	0.06	-7.33e-05	2.41e-04	0.0
3351	-0.23	-0.01	-0.25	-1.89e-05	3.45e-04	0.0
3352	-0.17	1.49e-03	-0.34	-3.17e-06	2.66e-04	0.0
3353	-0.11	0.02	-0.50	2.07e-05	1.59e-04	0.0
3361	-0.22	0.07	-0.78	7.96e-05	3.40e-04	0.0
3362	-0.17	0.07	-0.75	7.26e-05	2.60e-04	0.0
3371	-0.18	0.15	-1.31	1.69e-04	2.95e-04	0.0
3372	-0.13	0.13	-1.16	1.41e-04	2.23e-04	0.0
3381	-0.11	0.21	-1.80	2.33e-04	2.16e-04	0.0
3382	-0.08	0.17	-1.54	1.89e-04	1.61e-04	0.0
3391	-0.02	0.24	-2.24	2.61e-04	1.17e-04	0.0
3392	-7.62e-03	0.19	-1.88	2.09e-04	8.26e-05	0.0
3401	0.07	0.22	-2.61	2.47e-04	1.45e-05	0.0
3402	0.07	0.18	-2.16	1.97e-04	1.95e-06	0.0
3411	0.15	0.17	-2.88	1.93e-04	-7.49e-05	0.0
3412	0.13	0.14	-2.37	1.53e-04	-6.81e-05	0.0
3421	0.21	0.10	-3.06	1.08e-04	-1.36e-04	0.0
3422	0.17	0.08	-2.50	8.54e-05	-1.16e-04	0.0
3431	0.23	4.13e-03	-3.12	5.26e-06	-1.59e-04	0.0
3432	0.19	3.17e-03	-2.55	4.04e-06	-1.34e-04	0.0
3441	0.21	-0.09	-3.07	-9.80e-05	-1.39e-04	0.0
3442	0.17	-0.07	-2.51	-7.78e-05	-1.18e-04	0.0
3451	0.16	-0.17	-2.91	-1.85e-04	-8.05e-05	0.0
3452	0.13	-0.13	-2.39	-1.47e-04	-7.24e-05	0.0
3461	0.08	-0.22	-2.65	-2.41e-04	7.09e-06	0.0
3462	0.07	-0.17	-2.19	-1.92e-04	-3.78e-06	0.0
3471	-0.01	-0.23	-2.30	-2.58e-04	1.09e-04	0.0
3472	-1.29e-03	-0.19	-1.92	-2.07e-04	7.62e-05	0.0
3481	-0.10	-0.21	-1.88	-2.33e-04	2.08e-04	0.0
3482	-0.07	-0.17	-1.59	-1.89e-04	1.54e-04	0.0
3491	-0.17	-0.16	-1.39	-1.71e-04	2.88e-04	0.0
3492	-0.13	-0.13	-1.22	-1.43e-04	2.18e-04	0.0



3501	-0.22	-0.08	-0.87	-8.39e-05	3.36e-04	0.0
3502	-0.17	-0.07	-0.82	-7.59e-05	2.57e-04	0.0
3511	-0.22	8.74e-03	-0.34	1.40e-05	3.44e-04	0.0
3512	-0.17	-4.75e-03	-0.41	0.0	2.66e-04	0.0
3513	-0.11	-0.02	-0.50	-2.07e-05	1.59e-04	0.0
3521	-0.20	0.09	0.18	1.05e-04	3.13e-04	0.0
3522	-0.16	0.06	-0.01	7.03e-05	2.44e-04	0.0
3523	-0.10	0.02	-0.26	2.20e-05	1.50e-04	0.0
3531	-0.14	0.15	0.67	1.75e-04	2.48e-04	0.0
3532	-0.11	0.11	0.37	1.25e-04	1.96e-04	0.0
3541	-0.06	0.19	1.11	2.11e-04	1.61e-04	0.0
3542	-0.06	0.13	0.70	1.54e-04	1.31e-04	0.0
3551	0.02	0.18	1.47	2.08e-04	6.79e-05	0.0
3552	6.42e-03	0.13	0.98	1.53e-04	6.15e-05	0.0
3561	0.09	0.15	1.75	1.67e-04	-1.42e-05	0.0
3562	0.06	0.11	1.19	1.24e-04	0.0	0.0
3571	0.14	0.08	1.92	9.54e-05	-7.11e-05	0.0
3572	0.10	0.06	1.33	7.10e-05	-4.35e-05	0.0
3581	0.16	6.59e-03	1.99	7.30e-06	-9.27e-05	0.0
3582	0.11	5.07e-03	1.38	5.62e-06	-5.99e-05	0.0
3591	0.15	-0.07	1.95	-8.19e-05	-7.51e-05	0.0
3592	0.10	-0.05	1.35	-6.06e-05	-4.66e-05	0.0
3601	0.10	-0.14	1.79	-1.56e-04	-2.15e-05	0.0
3602	0.07	-0.10	1.23	-1.15e-04	-6.09e-06	0.0
3611	0.07	-0.14	1.85	-1.54e-04	1.43e-05	0.0
3612	0.04	-0.10	1.27	-1.14e-04	2.13e-05	0.0
3621	-6.23e-03	-0.18	1.59	-1.99e-04	9.42e-05	0.0
3622	-0.01	-0.13	1.06	-1.47e-04	8.15e-05	0.0
3623	-0.03	-0.07	0.33	-7.69e-05	6.76e-05	0.0
3631	-0.09	-0.19	1.23	-2.07e-04	1.87e-04	0.0
3632	-0.08	-0.14	0.79	-1.51e-04	1.51e-04	0.0
3641	-0.17	-0.16	0.79	-1.75e-04	2.75e-04	0.0
3642	-0.14	-0.11	0.45	-1.25e-04	2.17e-04	0.0
3651	-0.23	-0.10	0.29	-1.09e-04	3.43e-04	0.0
3652	-0.18	-0.06	0.06	-7.29e-05	2.68e-04	0.0
3661	-0.27	-0.01	-0.25	-1.87e-05	3.79e-04	0.0
3662	-0.21	1.07e-03	-0.35	-3.28e-06	2.93e-04	0.0
3663	-0.13	0.02	-0.52	1.99e-05	1.75e-04	0.0
3671	-0.26	0.08	-0.81	7.92e-05	3.74e-04	0.0
3672	-0.20	0.07	-0.78	7.20e-05	2.87e-04	0.0
3681	-0.22	0.16	-1.35	1.68e-04	3.29e-04	0.0
3682	-0.17	0.13	-1.20	1.40e-04	2.50e-04	0.0
3691	-0.15	0.22	-1.86	2.32e-04	2.52e-04	0.0
3692	-0.11	0.18	-1.59	1.88e-04	1.88e-04	0.0
3701	-0.06	0.24	-2.31	2.60e-04	1.53e-04	0.0
3702	-0.04	0.19	-1.94	2.08e-04	1.11e-04	0.0





3711	0.04	0.23	-2.69	2.46e-04	5.14e-05	0.0
3712	0.04	0.18	-2.23	1.96e-04	3.05e-05	0.0
3713	0.04	0.12	-1.61	1.26e-04	-1.27e-06	0.0
3721	0.12	0.18	-2.98	1.92e-04	-3.75e-05	0.0
3722	0.10	0.14	-2.45	1.52e-04	-3.90e-05	0.0
3731	0.18	0.10	-3.15	1.08e-04	-9.82e-05	0.0
3732	0.15	0.08	-2.58	8.51e-05	-8.65e-05	0.0
3741	0.20	4.75e-03	-3.22	5.79e-06	-1.21e-04	0.0
3742	0.16	3.65e-03	-2.63	4.45e-06	-1.04e-04	0.0
3751	0.18	-0.09	-3.17	-9.66e-05	-1.01e-04	0.0
3752	0.15	-0.07	-2.60	-7.67e-05	-8.87e-05	0.0
3761	0.13	-0.17	-3.01	-1.83e-04	-4.30e-05	0.0
3762	0.11	-0.14	-2.47	-1.45e-04	-4.33e-05	0.0
3771	0.05	-0.22	-2.74	-2.38e-04	4.40e-05	0.0
3772	0.04	-0.18	-2.26	-1.90e-04	2.48e-05	0.0
3781	-0.05	-0.24	-2.38	-2.55e-04	1.45e-04	0.0
3782	-0.03	-0.19	-1.99	-2.04e-04	1.04e-04	0.0
3791	-0.14	-0.22	-1.94	-2.30e-04	2.43e-04	0.0
3792	-0.10	-0.18	-1.65	-1.87e-04	1.82e-04	0.0
3801	-0.21	-0.16	-1.44	-1.69e-04	3.23e-04	0.0
3802	-0.16	-0.13	-1.26	-1.41e-04	2.45e-04	0.0
3811	-0.26	-0.08	-0.90	-8.20e-05	3.70e-04	0.0
3812	-0.20	-0.07	-0.85	-7.42e-05	2.84e-04	0.0
3821	-0.26	0.01	-0.35	1.52e-05	3.78e-04	0.0
3822	-0.20	-3.40e-03	-0.43	0.0	2.92e-04	0.0
3823	-0.13	-0.02	-0.52	-1.99e-05	1.75e-04	0.0
3831	-0.24	0.09	0.19	1.06e-04	3.47e-04	0.0
3832	-0.19	0.06	-0.01	7.10e-05	2.70e-04	0.0
3833	-0.12	0.02	-0.27	2.24e-05	1.66e-04	0.0
3841	-0.18	0.16	0.70	1.75e-04	2.82e-04	0.0
3842	-0.14	0.11	0.38	1.25e-04	2.22e-04	0.0
3851	-0.10	0.19	1.15	2.11e-04	1.95e-04	0.0
3852	-0.08	0.14	0.72	1.54e-04	1.58e-04	0.0
3861	-0.01	0.19	1.52	2.07e-04	1.03e-04	0.0
3862	-0.02	0.14	1.01	1.53e-04	8.84e-05	0.0
3863	-0.03	0.07	0.33	7.70e-05	6.77e-05	0.0
3871	0.06	0.15	1.81	1.66e-04	2.15e-05	0.0
3872	0.04	0.11	1.23	1.24e-04	2.68e-05	0.0
3881	0.11	0.09	1.99	9.57e-05	-3.50e-05	0.0
3882	0.08	0.06	1.37	7.13e-05	-1.60e-05	0.0
3891	0.13	7.51e-03	2.06	8.01e-06	-5.64e-05	0.0
3892	0.09	5.78e-03	1.42	6.16e-06	-3.22e-05	0.0
3901	0.12	-0.07	2.01	-8.07e-05	-3.90e-05	0.0
3902	0.08	-0.05	1.39	-5.97e-05	-1.90e-05	0.0
3911	0.09	8.51e-03	2.10	8.76e-06	-1.19e-05	0.0
3912	0.06	6.55e-03	1.46	6.74e-06	1.67e-06	0.0



3921	0.08	-0.07	2.06	-7.81e-05	5.21e-06	0.0
3922	0.05	-0.05	1.42	-5.78e-05	1.46e-05	0.0
3931	0.03	-0.14	1.90	-1.50e-04	5.74e-05	0.0
3932	0.01	-0.10	1.29	-1.11e-04	5.40e-05	0.0
3941	-0.05	-0.18	1.62	-1.94e-04	1.36e-04	0.0
3942	-0.05	-0.13	1.09	-1.43e-04	1.13e-04	0.0
3943	-0.05	-0.07	0.33	-7.57e-05	8.57e-05	0.0
3951	-0.13	-0.19	1.26	-2.02e-04	2.26e-04	0.0
3952	-0.11	-0.14	0.80	-1.47e-04	1.81e-04	0.0
3961	-0.21	-0.16	0.80	-1.71e-04	3.13e-04	0.0
3962	-0.17	-0.11	0.46	-1.22e-04	2.46e-04	0.0
3971	-0.28	-0.10	0.29	-1.06e-04	3.80e-04	0.0
3972	-0.22	-0.06	0.06	-7.14e-05	2.96e-04	0.0
3981	-0.31	-0.01	-0.26	-1.82e-05	4.15e-04	0.0
3982	-0.24	7.26e-04	-0.36	-3.24e-06	3.20e-04	0.0
3983	-0.15	0.02	-0.54	1.88e-05	1.91e-04	0.0
3991	-0.31	0.08	-0.83	7.76e-05	4.10e-04	0.0
3992	-0.23	0.07	-0.80	7.05e-05	3.15e-04	0.0
4001	-0.26	0.16	-1.39	1.65e-04	3.67e-04	0.0
4002	-0.20	0.13	-1.23	1.37e-04	2.79e-04	0.0
4011	-0.19	0.22	-1.91	2.27e-04	2.91e-04	0.0
4012	-0.14	0.18	-1.63	1.84e-04	2.18e-04	0.0
4021	-0.10	0.24	-2.38	2.54e-04	1.95e-04	0.0
4022	-0.07	0.20	-1.99	2.04e-04	1.43e-04	0.0
4031	-4.19e-03	0.23	-2.76	2.41e-04	9.49e-05	0.0
4032	6.00e-03	0.18	-2.29	1.92e-04	6.43e-05	0.0
4033	0.02	0.12	-1.66	1.23e-04	1.93e-05	0.0
4041	0.08	0.18	-3.05	1.89e-04	8.07e-06	0.0
4042	0.07	0.14	-2.51	1.49e-04	-3.66e-06	0.0
4051	0.14	0.10	-3.24	1.06e-04	-5.13e-05	0.0
4052	0.12	0.08	-2.65	8.37e-05	-5.00e-05	0.0
4061	0.16	5.44e-03	-3.30	6.36e-06	-7.33e-05	0.0
4062	0.13	4.18e-03	-2.71	4.89e-06	-6.71e-05	0.0
4071	0.14	-0.09	-3.25	-9.37e-05	-5.42e-05	0.0
4072	0.12	-0.07	-2.67	-7.43e-05	-5.22e-05	0.0
4081	0.08	-0.17	-3.09	-1.78e-04	2.69e-06	0.0
4082	0.08	-0.14	-2.54	-1.41e-04	-7.80e-06	0.0
4091	3.47e-03	-0.22	-2.81	-2.32e-04	8.77e-05	0.0
4092	0.01	-0.18	-2.33	-1.85e-04	5.87e-05	0.0
4093	0.02	-0.12	-1.66	-1.23e-04	1.93e-05	0.0
4101	-0.09	-0.24	-2.44	-2.48e-04	1.86e-04	0.0
4102	-0.06	-0.19	-2.04	-1.99e-04	1.36e-04	0.0
4111	-0.18	-0.22	-1.99	-2.24e-04	2.83e-04	0.0
4112	-0.13	-0.18	-1.69	-1.82e-04	2.12e-04	0.0
4121	-0.26	-0.16	-1.48	-1.64e-04	3.60e-04	0.0
4122	-0.19	-0.13	-1.30	-1.36e-04	2.74e-04	0.0



4131	-0.30	-0.08	-0.93	-7.88e-05	4.06e-04	0.0
4132	-0.23	-0.07	-0.88	-7.13e-05	3.11e-04	0.0
4141	-0.31	0.01	-0.36	1.64e-05	4.14e-04	0.0
4142	-0.24	-1.87e-03	-0.44	1.87e-06	3.20e-04	0.0
4143	-0.15	-0.02	-0.54	-1.88e-05	1.91e-04	0.0
4151	-0.28	0.10	0.19	1.05e-04	3.83e-04	0.0
4152	-0.22	0.06	-0.02	7.07e-05	2.98e-04	0.0
4153	-0.14	0.02	-0.29	2.26e-05	1.82e-04	0.0
4161	-0.22	0.16	0.71	1.73e-04	3.19e-04	0.0
4162	-0.17	0.11	0.38	1.24e-04	2.51e-04	0.0
4171	-0.14	0.19	1.17	2.08e-04	2.35e-04	0.0
4172	-0.12	0.14	0.74	1.52e-04	1.88e-04	0.0
4181	-0.05	0.19	1.56	2.04e-04	1.44e-04	0.0
4182	-0.05	0.14	1.04	1.51e-04	1.20e-04	0.0
4191	0.02	0.15	1.85	1.64e-04	6.44e-05	0.0
4192	5.89e-03	0.11	1.26	1.22e-04	5.94e-05	0.0
4201	0.07	0.09	2.03	9.46e-05	9.12e-06	0.0
4202	0.05	0.07	1.40	7.05e-05	1.76e-05	0.0
4211	-0.10	-0.18	1.65	-1.86e-04	1.82e-04	0.0
4212	-0.08	-0.13	1.10	-1.37e-04	1.49e-04	0.0
4221	-0.18	-0.19	1.27	-1.93e-04	2.69e-04	0.0
4222	-0.15	-0.14	0.81	-1.41e-04	2.14e-04	0.0
4231	-0.26	-0.16	0.81	-1.64e-04	3.53e-04	0.0
4232	-0.21	-0.11	0.46	-1.17e-04	2.77e-04	0.0
4241	-0.32	-0.10	0.29	-1.02e-04	4.18e-04	0.0
4242	-0.25	-0.06	0.05	-6.84e-05	3.24e-04	0.0
4243	-0.16	-0.02	-0.30	-2.23e-05	1.98e-04	0.0
4251	-0.36	-0.01	-0.27	-1.71e-05	4.51e-04	0.0
4252	-0.28	5.88e-04	-0.38	-2.95e-06	3.48e-04	0.0
4253	-0.17	0.02	-0.56	1.75e-05	2.07e-04	0.0
4261	-0.35	0.08	-0.85	7.50e-05	4.47e-04	0.0
4262	-0.27	0.07	-0.82	6.79e-05	3.43e-04	0.0
4271	-0.31	0.16	-1.42	1.59e-04	4.05e-04	0.0
4272	-0.24	0.13	-1.26	1.32e-04	3.09e-04	0.0
4281	-0.24	0.22	-1.95	2.19e-04	3.32e-04	0.0
4282	-0.18	0.18	-1.67	1.77e-04	2.50e-04	0.0
4291	-0.15	0.24	-2.42	2.45e-04	2.40e-04	0.0
4292	-0.11	0.19	-2.03	1.96e-04	1.78e-04	0.0
4301	-0.05	0.23	-2.82	2.32e-04	1.44e-04	0.0
4302	-0.03	0.18	-2.34	1.84e-04	1.03e-04	0.0
4311	0.03	0.18	-3.11	1.82e-04	6.09e-05	0.0
4312	0.03	0.14	-2.56	1.44e-04	3.75e-05	0.0
4313	0.04	0.09	-1.83	8.99e-05	2.92e-06	0.0
4321	0.08	0.10	-3.30	1.02e-04	3.84e-06	0.0
4322	0.08	0.08	-2.71	8.09e-05	-7.06e-06	0.0
4331	0.10	6.16e-03	-3.37	6.93e-06	-1.72e-05	0.0



4332	0.09	4.74e-03	-2.76	5.33e-06	-2.35e-05	0.0
4341	0.09	-0.09	-3.32	-8.91e-05	1.12e-06	0.0
4342	0.08	-0.07	-2.72	-7.07e-05	-9.16e-06	0.0
4351	0.03	-0.17	-3.15	-1.70e-04	5.57e-05	0.0
4352	0.04	-0.13	-2.59	-1.35e-04	3.35e-05	0.0
4353	0.04	-0.09	-1.83	-8.97e-05	2.92e-06	0.0
4361	-0.05	-0.22	-2.87	-2.22e-04	1.37e-04	0.0
4362	-0.03	-0.18	-2.37	-1.77e-04	9.73e-05	0.0
4371	-0.14	-0.23	-2.49	-2.37e-04	2.32e-04	0.0
4372	-0.10	-0.19	-2.08	-1.90e-04	1.72e-04	0.0
4381	-0.23	-0.21	-2.03	-2.14e-04	3.24e-04	0.0
4382	-0.17	-0.17	-1.73	-1.73e-04	2.44e-04	0.0
4391	-0.30	-0.16	-1.51	-1.56e-04	3.99e-04	0.0
4392	-0.23	-0.13	-1.33	-1.30e-04	3.03e-04	0.0
4401	-0.35	-0.08	-0.95	-7.41e-05	4.43e-04	0.0
4402	-0.27	-0.07	-0.90	-6.72e-05	3.40e-04	0.0
4411	-0.36	0.01	-0.37	1.73e-05	4.50e-04	0.0
4412	-0.27	-2.47e-04	-0.46	3.13e-06	3.47e-04	0.0
4413	-0.17	-0.02	-0.56	-1.74e-05	2.07e-04	0.0
4421	-0.33	0.10	0.19	1.03e-04	4.20e-04	0.0
4422	-0.25	0.06	-0.02	6.92e-05	3.26e-04	0.0
4423	-0.16	0.02	-0.30	2.23e-05	1.98e-04	0.0
4431	-0.27	0.16	0.72	1.67e-04	3.59e-04	0.0
4432	-0.21	0.11	0.38	1.20e-04	2.81e-04	0.0
4441	-0.19	0.19	1.19	2.01e-04	2.78e-04	0.0
4442	-0.15	0.14	0.74	1.47e-04	2.20e-04	0.0
4451	-0.10	0.19	1.58	1.98e-04	1.91e-04	0.0
4452	-0.09	0.14	1.05	1.46e-04	1.55e-04	0.0
4461	-0.03	0.15	1.87	1.59e-04	1.14e-04	0.0
4462	-0.03	0.11	1.27	1.18e-04	9.69e-05	0.0
4463	-0.04	0.06	0.45	5.93e-05	7.37e-05	0.0
4471	0.02	0.09	2.06	9.21e-05	6.06e-05	0.0
4472	7.79e-03	0.07	1.42	6.87e-05	5.67e-05	0.0
4481	0.04	9.57e-03	2.13	9.51e-06	4.05e-05	0.0
4482	0.02	7.36e-03	1.47	7.32e-06	4.14e-05	0.0
4491	0.03	-0.07	2.09	-7.40e-05	5.69e-05	0.0
4492	0.01	-0.05	1.44	-5.48e-05	5.38e-05	0.0
4501	-0.02	-0.14	1.92	-1.43e-04	1.07e-04	0.0
4502	-0.03	-0.10	1.31	-1.06e-04	9.17e-05	0.0
4503	-0.04	-0.06	0.45	-5.93e-05	7.36e-05	0.0
4511	-0.38	-0.09	0.28	-9.45e-05	4.64e-04	0.0
4512	-0.30	-0.06	0.04	-6.38e-05	3.60e-04	0.0
4513	-0.18	-0.02	-0.32	-2.17e-05	2.19e-04	0.0
4521	-0.41	-0.01	-0.29	-1.54e-05	4.96e-04	0.0
4522	-0.32	6.09e-04	-0.39	-2.54e-06	3.83e-04	0.0
4523	-0.19	0.02	-0.58	1.55e-05	2.27e-04	0.0



4531	-0.41	0.07	-0.87	7.08e-05	4.93e-04	0.0
4532	-0.31	0.07	-0.84	6.38e-05	3.78e-04	0.0
4541	-0.37	0.15	-1.44	1.49e-04	4.53e-04	0.0
4542	-0.28	0.13	-1.28	1.24e-04	3.46e-04	0.0
4551	-0.30	0.21	-1.98	2.05e-04	3.85e-04	0.0
4552	-0.22	0.17	-1.70	1.66e-04	2.92e-04	0.0
4561	-0.21	0.23	-2.45	2.30e-04	2.99e-04	0.0
4562	-0.16	0.19	-2.06	1.84e-04	2.24e-04	0.0
4571	-0.12	0.22	-2.85	2.18e-04	2.09e-04	0.0
4572	-0.08	0.18	-2.37	1.73e-04	1.53e-04	0.0
4581	-0.04	0.17	-3.15	1.71e-04	1.31e-04	0.0
4582	-0.02	0.14	-2.60	1.35e-04	9.24e-05	0.0
4591	0.01	0.10	-3.34	9.69e-05	7.80e-05	0.0
4592	0.02	0.08	-2.74	7.65e-05	5.08e-05	0.0
4593	0.03	0.05	-1.94	4.53e-05	1.18e-05	0.0
4601	0.03	7.02e-03	-3.41	7.64e-06	5.83e-05	0.0
4602	0.04	5.40e-03	-2.80	5.87e-06	3.55e-05	0.0
4603	0.04	1.10e-04	-1.97	0.0	3.01e-06	0.0
4611	0.02	-0.08	-3.35	-8.21e-05	7.54e-05	0.0
4612	0.02	-0.07	-2.76	-6.51e-05	4.89e-05	0.0
4613	0.03	-0.05	-1.94	-4.52e-05	1.18e-05	0.0
4621	-0.04	-0.16	-3.18	-1.57e-04	1.26e-04	0.0
4622	-0.02	-0.13	-2.62	-1.25e-04	8.87e-05	0.0
4631	-0.11	-0.21	-2.90	-2.06e-04	2.03e-04	0.0
4632	-0.08	-0.17	-2.41	-1.64e-04	1.48e-04	0.0
4641	-0.20	-0.23	-2.52	-2.20e-04	2.91e-04	0.0
4642	-0.15	-0.18	-2.11	-1.76e-04	2.18e-04	0.0
4651	-0.29	-0.20	-2.06	-1.98e-04	3.77e-04	0.0
4652	-0.22	-0.17	-1.76	-1.60e-04	2.86e-04	0.0
4661	-0.36	-0.15	-1.53	-1.44e-04	4.47e-04	0.0
4662	-0.27	-0.12	-1.35	-1.20e-04	3.41e-04	0.0
4671	-0.40	-0.07	-0.97	-6.73e-05	4.88e-04	0.0
4672	-0.31	-0.07	-0.92	-6.11e-05	3.74e-04	0.0
4681	-0.41	0.02	-0.39	1.83e-05	4.95e-04	0.0
4682	-0.32	1.72e-03	-0.47	4.78e-06	3.82e-04	0.0
4683	-0.19	-0.02	-0.58	-1.54e-05	2.27e-04	0.0
4691	-0.38	0.10	0.18	9.82e-05	4.66e-04	0.0
4692	-0.30	0.06	-0.04	6.66e-05	3.62e-04	0.0
4693	-0.18	0.02	-0.32	2.18e-05	2.19e-04	0.0
4701	-0.32	0.16	0.71	1.59e-04	4.09e-04	0.0
4702	-0.25	0.11	0.37	1.14e-04	3.19e-04	0.0
4711	-0.25	0.19	1.19	1.90e-04	3.33e-04	0.0
4712	-0.20	0.14	0.74	1.39e-04	2.62e-04	0.0
4721	-0.16	0.19	1.58	1.87e-04	2.51e-04	0.0
4722	-0.14	0.14	1.04	1.38e-04	2.01e-04	0.0
4731	-0.09	0.15	1.88	1.50e-04	1.79e-04	0.0



4732	-0.08	0.11	1.27	1.12e-04	1.46e-04	0.0
4741	-0.04	0.09	2.07	8.78e-05	1.29e-04	0.0
4742	-0.04	0.07	1.42	6.56e-05	1.09e-04	0.0
4743	-0.05	0.03	0.52	3.12e-05	8.08e-05	0.0
4751	-0.02	0.01	2.14	1.04e-05	1.11e-04	0.0
4752	-0.03	8.30e-03	1.47	8.02e-06	9.44e-05	0.0
4753	-0.04	5.48e-05	0.55	0.0	7.33e-05	0.0
4761	-0.04	-0.07	2.09	-6.79e-05	1.26e-04	0.0
4762	-0.04	-0.05	1.44	-5.03e-05	1.06e-04	0.0
4763	-0.05	-0.03	0.53	-3.11e-05	8.07e-05	0.0
4771	-0.09	-0.13	1.93	-1.33e-04	1.73e-04	0.0
4772	-0.08	-0.10	1.31	-9.84e-05	1.42e-04	0.0
4781	-0.16	-0.17	1.65	-1.73e-04	2.43e-04	0.0
4782	-0.13	-0.13	1.09	-1.27e-04	1.95e-04	0.0
4791	-0.24	-0.18	1.27	-1.80e-04	3.25e-04	0.0
4792	-0.19	-0.13	0.80	-1.32e-04	2.56e-04	0.0
4801	-0.32	-0.15	0.81	-1.53e-04	4.03e-04	0.0
4802	-0.25	-0.11	0.45	-1.09e-04	3.15e-04	0.0
4811	-0.38	-0.14	0.79	-1.38e-04	4.52e-04	0.0
4812	-0.30	-0.10	0.43	-9.88e-05	3.52e-04	0.0
4821	-0.44	-0.09	0.26	-8.50e-05	5.08e-04	0.0
4822	-0.34	-0.06	0.02	-5.74e-05	3.93e-04	0.0
4823	-0.21	-0.02	-0.34	-2.03e-05	2.38e-04	0.0
4831	-0.47	-0.01	-0.30	-1.30e-05	5.37e-04	0.0
4832	-0.36	1.06e-03	-0.41	-1.65e-06	4.14e-04	0.0
4833	-0.22	0.02	-0.60	1.35e-05	2.45e-04	0.0
4841	-0.46	0.07	-0.88	6.56e-05	5.34e-04	0.0
4842	-0.36	0.06	-0.86	5.88e-05	4.10e-04	0.0
4851	-0.43	0.15	-1.45	1.37e-04	4.98e-04	0.0
4852	-0.33	0.12	-1.30	1.13e-04	3.81e-04	0.0
4861	-0.36	0.20	-1.99	1.88e-04	4.36e-04	0.0
4862	-0.27	0.16	-1.71	1.52e-04	3.31e-04	0.0
4871	-0.28	0.22	-2.46	2.10e-04	3.58e-04	0.0
4872	-0.21	0.18	-2.07	1.68e-04	2.70e-04	0.0
4881	-0.19	0.21	-2.86	2.00e-04	2.76e-04	0.0
4882	-0.14	0.17	-2.38	1.58e-04	2.06e-04	0.0
4891	-0.12	0.16	-3.16	1.57e-04	2.05e-04	0.0
4892	-0.08	0.13	-2.61	1.24e-04	1.50e-04	0.0
4901	-0.07	0.09	-3.34	8.94e-05	1.57e-04	0.0
4902	-0.04	0.07	-2.75	7.05e-05	1.12e-04	0.0
4911	-0.05	7.89e-03	-3.41	8.30e-06	1.39e-04	0.0
4912	-0.03	6.07e-03	-2.80	6.38e-06	9.84e-05	0.0
4921	-0.06	-0.08	-3.36	-7.33e-05	1.54e-04	0.0
4922	-0.04	-0.06	-2.77	-5.81e-05	1.11e-04	0.0
4931	-0.11	-0.15	-3.19	-1.42e-04	2.01e-04	0.0
4932	-0.08	-0.12	-2.63	-1.12e-04	1.47e-04	0.0



4941	-0.19	-0.20	-2.91	-1.86e-04	2.70e-04	0.0
4942	-0.13	-0.16	-2.42	-1.48e-04	2.01e-04	0.0
4951	-0.27	-0.21	-2.53	-1.99e-04	3.51e-04	0.0
4952	-0.20	-0.17	-2.13	-1.59e-04	2.64e-04	0.0
4961	-0.35	-0.19	-2.07	-1.78e-04	4.29e-04	0.0
4962	-0.27	-0.15	-1.77	-1.44e-04	3.26e-04	0.0
4971	-0.42	-0.14	-1.54	-1.29e-04	4.92e-04	0.0
4972	-0.32	-0.12	-1.37	-1.07e-04	3.76e-04	0.0
4981	-0.46	-0.06	-0.98	-5.91e-05	5.29e-04	0.0
4982	-0.35	-0.06	-0.93	-5.38e-05	4.06e-04	0.0
4991	-0.47	0.02	-0.40	1.88e-05	5.35e-04	0.0
4992	-0.36	3.55e-03	-0.49	6.09e-06	4.13e-04	0.0
4993	-0.22	-0.02	-0.60	-1.34e-05	2.46e-04	0.0
5001	-0.44	0.09	0.16	9.14e-05	5.09e-04	0.0
5002	-0.34	0.06	-0.06	6.23e-05	3.94e-04	0.0
5003	-0.21	0.02	-0.34	2.04e-05	2.38e-04	0.0
5011	-0.38	0.15	0.69	1.46e-04	4.57e-04	0.0
5012	-0.30	0.11	0.35	1.05e-04	3.56e-04	0.0
5021	-0.31	0.18	1.17	1.75e-04	3.87e-04	0.0
5022	-0.25	0.13	0.72	1.28e-04	3.04e-04	0.0
5031	-0.23	0.18	1.56	1.72e-04	3.13e-04	0.0
5032	-0.19	0.13	1.02	1.27e-04	2.48e-04	0.0
5041	-0.16	0.14	1.86	1.39e-04	2.48e-04	0.0
5042	-0.14	0.11	1.25	1.03e-04	1.98e-04	0.0
5051	-0.12	0.09	2.05	8.17e-05	2.02e-04	0.0
5052	-0.10	0.06	1.39	6.11e-05	1.64e-04	0.0
5061	-0.10	0.01	2.12	1.12e-05	1.85e-04	0.0
5062	-0.09	9.25e-03	1.45	8.64e-06	1.51e-04	0.0
5071	-0.11	-0.06	2.07	-6.01e-05	1.99e-04	0.0
5072	-0.10	-0.05	1.41	-4.44e-05	1.61e-04	0.0
5081	-0.16	-0.12	1.90	-1.19e-04	2.42e-04	0.0
5082	-0.13	-0.09	1.28	-8.83e-05	1.94e-04	0.0
5091	-0.23	-0.16	1.63	-1.56e-04	3.06e-04	0.0
5092	-0.18	-0.12	1.07	-1.15e-04	2.42e-04	0.0
5101	-0.30	-0.17	1.25	-1.63e-04	3.81e-04	0.0
5102	-0.24	-0.12	0.78	-1.19e-04	2.98e-04	0.0
5111	-0.38	-0.15	1.21	-1.40e-04	4.43e-04	0.0
5112	-0.30	-0.11	0.74	-1.02e-04	3.46e-04	0.0
5121	-0.45	-0.13	0.75	-1.18e-04	5.06e-04	0.0
5122	-0.35	-0.09	0.40	-8.49e-05	3.93e-04	0.0
5131	-0.50	-0.08	0.24	-7.25e-05	5.55e-04	0.0
5132	-0.39	-0.05	-2.36e-03	-4.90e-05	4.29e-04	0.0
5133	-0.24	-0.02	-0.37	-1.83e-05	2.58e-04	0.0
5141	-0.53	-8.59e-03	-0.32	-9.73e-06	5.81e-04	0.0
5142	-0.41	1.96e-03	-0.43	0.0	4.47e-04	0.0
5143	-0.24	0.01	-0.62	1.12e-05	2.65e-04	0.0



5151	-0.53	0.07	-0.89	5.88e-05	5.78e-04	0.0
5152	-0.40	0.06	-0.87	5.24e-05	4.44e-04	0.0
5161	-0.49	0.13	-1.45	1.21e-04	5.47e-04	0.0
5162	-0.38	0.11	-1.30	9.99e-05	4.18e-04	0.0
5171	-0.43	0.18	-1.98	1.66e-04	4.93e-04	0.0
5172	-0.33	0.15	-1.71	1.34e-04	3.75e-04	0.0
5181	-0.36	0.20	-2.45	1.85e-04	4.24e-04	0.0
5182	-0.27	0.16	-2.07	1.48e-04	3.22e-04	0.0
5191	-0.28	0.19	-2.84	1.76e-04	3.53e-04	0.0
5192	-0.21	0.15	-2.37	1.39e-04	2.66e-04	0.0
5201	-0.21	0.15	-3.13	1.38e-04	2.91e-04	0.0
5202	-0.15	0.12	-2.59	1.09e-04	2.18e-04	0.0
5211	-0.16	0.09	-3.31	7.96e-05	2.49e-04	0.0
5212	-0.12	0.07	-2.73	6.28e-05	1.85e-04	0.0
5221	-0.15	8.85e-03	-3.38	9.02e-06	2.34e-04	0.0
5222	-0.10	6.81e-03	-2.79	6.94e-06	1.73e-04	0.0
5231	-0.16	-0.07	-3.33	-6.19e-05	2.47e-04	0.0
5232	-0.12	-0.05	-2.75	-4.91e-05	1.83e-04	0.0
5241	-0.21	-0.13	-3.16	-1.21e-04	2.88e-04	0.0
5242	-0.15	-0.11	-2.62	-9.63e-05	2.15e-04	0.0
5251	-0.27	-0.18	-2.89	-1.60e-04	3.48e-04	0.0
5252	-0.20	-0.14	-2.41	-1.27e-04	2.62e-04	0.0
5261	-0.35	-0.19	-2.51	-1.71e-04	4.18e-04	0.0
5262	-0.26	-0.15	-2.12	-1.37e-04	3.17e-04	0.0
5271	-0.42	-0.17	-2.06	-1.53e-04	4.86e-04	0.0
5272	-0.32	-0.14	-1.77	-1.24e-04	3.70e-04	0.0
5281	-0.48	-0.12	-1.54	-1.10e-04	5.41e-04	0.0
5282	-0.37	-0.10	-1.37	-9.13e-05	4.14e-04	0.0
5291	-0.52	-0.06	-0.99	-4.90e-05	5.73e-04	0.0
5292	-0.40	-0.05	-0.95	-4.49e-05	4.40e-04	0.0
5301	-0.53	0.02	-0.42	1.89e-05	5.78e-04	0.0
5302	-0.40	5.42e-03	-0.51	7.36e-06	4.46e-04	0.0
5303	-0.24	-0.01	-0.62	-1.11e-05	2.65e-04	0.0
5311	-0.50	0.09	0.14	8.22e-05	5.56e-04	0.0
5312	-0.39	0.06	-0.08	5.64e-05	4.30e-04	0.0
5313	-0.24	0.02	-0.37	1.84e-05	2.58e-04	0.0
5321	-0.45	0.14	0.66	1.30e-04	5.10e-04	0.0
5322	-0.35	0.10	0.32	9.39e-05	3.96e-04	0.0
5331	-0.38	0.17	1.12	1.55e-04	4.49e-04	0.0
5332	-0.30	0.12	0.68	1.14e-04	3.50e-04	0.0
5341	-0.31	0.17	1.51	1.52e-04	3.84e-04	0.0
5342	-0.25	0.12	0.98	1.13e-04	3.01e-04	0.0
5351	-0.25	0.13	1.80	1.23e-04	3.27e-04	0.0
5352	-0.20	0.10	1.20	9.18e-05	2.58e-04	0.0
5361	-0.21	0.08	1.99	7.35e-05	2.88e-04	0.0
5362	-0.17	0.06	1.35	5.50e-05	2.28e-04	0.0





5371	-0.19	0.01	2.06	1.21e-05	2.73e-04	0.0
5372	-0.16	0.01	1.40	9.28e-06	2.17e-04	0.0
5381	-0.21	-0.05	2.01	-5.01e-05	2.85e-04	0.0
5382	-0.17	-0.04	1.36	-3.70e-05	2.26e-04	0.0
5391	-0.25	-0.11	1.85	-1.02e-04	3.22e-04	0.0
5392	-0.20	-0.08	1.24	-7.53e-05	2.54e-04	0.0
5401	-0.31	-0.14	1.58	-1.34e-04	3.78e-04	0.0
5402	-0.24	-0.11	1.03	-9.86e-05	2.97e-04	0.0
5411	-0.32	-0.04	1.92	-3.74e-05	3.87e-04	0.0
5412	-0.25	-0.03	1.29	-2.76e-05	3.03e-04	0.0
5421	-0.31	0.01	1.97	1.29e-05	3.77e-04	0.0
5422	-0.24	0.01	1.32	9.93e-06	2.96e-04	0.0
5431	-0.32	0.07	1.90	6.26e-05	3.89e-04	0.0
5432	-0.25	0.05	1.27	4.70e-05	3.05e-04	0.0
5441	-0.36	0.12	1.72	1.03e-04	4.21e-04	0.0
5442	-0.28	0.09	1.13	7.68e-05	3.29e-04	0.0
5451	-0.41	0.14	1.44	1.26e-04	4.67e-04	0.0
5452	-0.32	0.11	0.91	9.38e-05	3.64e-04	0.0
5461	-0.47	0.15	1.06	1.28e-04	5.20e-04	0.0
5462	-0.37	0.11	0.63	9.46e-05	4.03e-04	0.0
5471	-0.53	0.12	0.61	1.09e-04	5.69e-04	0.0
5472	-0.41	0.09	0.28	7.86e-05	4.40e-04	0.0
5481	-0.57	0.08	0.10	6.98e-05	6.06e-04	0.0
5482	-0.44	0.05	-0.11	4.82e-05	4.68e-04	0.0
5483	-0.27	0.02	-0.40	1.54e-05	2.80e-04	0.0
5491	-0.59	0.02	-0.44	1.85e-05	6.25e-04	0.0
5492	-0.46	7.28e-03	-0.53	8.57e-06	4.81e-04	0.0
5493	-0.27	-0.01	-0.64	-8.38e-06	2.85e-04	0.0
5501	-0.59	-0.04	-0.99	-3.65e-05	6.21e-04	0.0
5502	-0.45	-0.04	-0.95	-3.37e-05	4.77e-04	0.0
5511	-0.56	-0.10	-1.53	-8.58e-05	5.95e-04	0.0
5512	-0.43	-0.09	-1.36	-7.14e-05	4.56e-04	0.0
5521	-0.51	-0.14	-2.03	-1.21e-04	5.50e-04	0.0
5522	-0.38	-0.12	-1.75	-9.79e-05	4.21e-04	0.0
5531	-0.44	-0.16	-2.47	-1.35e-04	4.95e-04	0.0
5532	-0.33	-0.13	-2.09	-1.08e-04	3.77e-04	0.0
5541	-0.38	-0.15	-2.83	-1.26e-04	4.39e-04	0.0
5542	-0.28	-0.12	-2.37	-1.01e-04	3.33e-04	0.0
5551	-0.32	-0.11	-3.10	-9.56e-05	3.90e-04	0.0
5552	-0.24	-0.09	-2.57	-7.58e-05	2.95e-04	0.0
5561	-0.28	-0.06	-3.26	-4.75e-05	3.57e-04	0.0
5562	-0.21	-0.04	-2.70	-3.77e-05	2.69e-04	0.0
5571	-0.27	9.95e-03	-3.31	9.85e-06	3.46e-04	0.0
5572	-0.20	7.66e-03	-2.74	7.58e-06	2.61e-04	0.0
5581	-0.28	0.08	-3.25	6.70e-05	3.59e-04	0.0
5582	-0.21	0.06	-2.69	5.27e-05	2.70e-04	0.0



5591	-0.32	0.13	-3.07	1.15e-04	3.93e-04	0.0
5592	-0.24	0.10	-2.55	9.04e-05	2.97e-04	0.0
5601	-0.38	0.17	-2.78	1.45e-04	4.43e-04	0.0
5602	-0.29	0.13	-2.33	1.15e-04	3.36e-04	0.0
5611	-0.45	0.18	-2.41	1.52e-04	5.01e-04	0.0
5612	-0.34	0.14	-2.04	1.21e-04	3.81e-04	0.0
5621	-0.51	0.16	-1.95	1.37e-04	5.56e-04	0.0
5622	-0.39	0.13	-1.69	1.10e-04	4.25e-04	0.0
5631	-0.56	0.12	-1.44	1.01e-04	6.00e-04	0.0
5632	-0.43	0.10	-1.30	8.28e-05	4.60e-04	0.0
5641	-0.59	0.06	-0.90	5.02e-05	6.25e-04	0.0
5642	-0.46	0.05	-0.88	4.43e-05	4.80e-04	0.0
5651	-0.60	-4.77e-03	-0.34	-5.36e-06	6.27e-04	0.0
5652	-0.46	3.52e-03	-0.45	1.56e-06	4.83e-04	0.0
5653	-0.27	0.01	-0.64	8.53e-06	2.85e-04	0.0
5661	-0.57	-0.06	0.20	-5.63e-05	6.06e-04	0.0
5662	-0.44	-0.04	-0.04	-3.79e-05	4.68e-04	0.0
5663	-0.27	-0.02	-0.39	-1.53e-05	2.80e-04	0.0
5671	-0.53	-0.11	0.70	-9.34e-05	5.66e-04	0.0
5672	-0.41	-0.08	0.35	-6.69e-05	4.38e-04	0.0
5681	-0.47	-0.13	1.14	-1.10e-04	5.15e-04	0.0
5682	-0.36	-0.09	0.69	-8.07e-05	4.00e-04	0.0
5691	-0.41	-0.12	1.50	-1.05e-04	4.62e-04	0.0
5692	-0.32	-0.09	0.97	-7.75e-05	3.60e-04	0.0
5701	-0.35	-0.09	1.76	-7.92e-05	4.17e-04	0.0
5702	-0.28	-0.07	1.17	-5.86e-05	3.26e-04	0.0
5711	-0.57	-0.05	1.56	-3.22e-05	6.03e-04	0.0
5712	-0.44	-0.03	1.01	-2.37e-05	4.66e-04	0.0
5721	-0.60	-0.06	1.32	-4.52e-05	6.26e-04	0.0
5722	-0.46	-0.05	0.82	-3.32e-05	4.84e-04	0.0
5731	-0.64	-0.07	0.99	-4.80e-05	6.53e-04	0.0
5732	-0.49	-0.05	0.57	-3.49e-05	5.04e-04	0.0
5741	-0.67	-0.06	0.59	-3.97e-05	6.80e-04	0.0
5742	-0.52	-0.04	0.26	-2.82e-05	5.24e-04	0.0
5751	-0.70	-0.03	0.12	-2.13e-05	7.00e-04	0.0
5752	-0.54	-0.02	-0.10	-1.38e-05	5.40e-04	0.0
5753	-0.33	-0.01	-0.44	-8.68e-06	3.20e-04	0.0
5761	-0.72	4.48e-03	-0.38	4.28e-06	7.11e-04	0.0
5762	-0.55	7.62e-03	-0.49	5.96e-06	5.47e-04	0.0
5763	-0.33	6.13e-03	-0.67	3.31e-06	3.23e-04	0.0
5771	-0.71	0.04	-0.89	3.21e-05	7.10e-04	0.0
5772	-0.55	0.04	-0.88	2.74e-05	5.46e-04	0.0
5773	-0.33	0.02	-0.90	1.59e-05	3.21e-04	0.0
5781	-0.70	0.08	-1.40	5.73e-05	6.97e-04	0.0
5782	-0.53	0.06	-1.27	4.66e-05	5.36e-04	0.0
5791	-0.67	0.10	-1.87	7.54e-05	6.75e-04	0.0

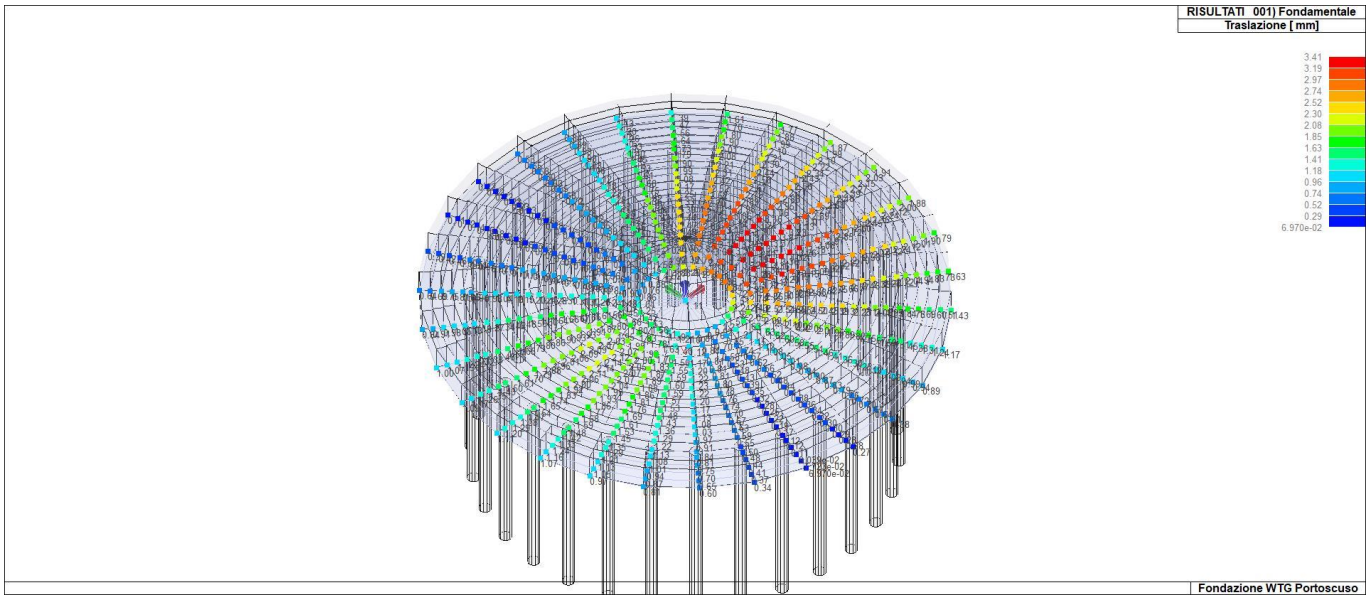


5792	-0.51	0.08	-1.63	6.03e-05	5.18e-04	0.0
5801	-0.63	0.11	-2.29	8.32e-05	6.47e-04	0.0
5802	-0.48	0.09	-1.96	6.60e-05	4.96e-04	0.0
5811	-0.59	0.11	-2.64	7.93e-05	6.18e-04	0.0
5812	-0.45	0.08	-2.22	6.26e-05	4.74e-04	0.0
5821	-0.55	0.08	-2.90	6.42e-05	5.93e-04	0.0
5822	-0.42	0.07	-2.43	5.05e-05	4.54e-04	0.0
5831	-0.53	0.05	-3.06	4.03e-05	5.76e-04	0.0
5832	-0.40	0.04	-2.55	3.16e-05	4.40e-04	0.0
5841	-0.52	0.01	-3.13	1.16e-05	5.69e-04	0.0
5842	-0.40	9.40e-03	-2.60	8.94e-06	4.35e-04	0.0
5851	-0.53	-0.03	-3.08	-1.72e-05	5.75e-04	0.0
5852	-0.40	-0.02	-2.56	-1.38e-05	4.40e-04	0.0
5861	-0.55	-0.06	-2.93	-4.13e-05	5.91e-04	0.0
5862	-0.42	-0.05	-2.45	-3.29e-05	4.52e-04	0.0
5871	-0.58	-0.08	-2.68	-5.68e-05	6.16e-04	0.0
5872	-0.45	-0.07	-2.26	-4.53e-05	4.71e-04	0.0
5881	-0.62	-0.09	-2.34	-6.12e-05	6.44e-04	0.0
5882	-0.48	-0.07	-2.00	-4.90e-05	4.94e-04	0.0
5891	-0.66	-0.08	-1.94	-5.37e-05	6.72e-04	0.0
5892	-0.51	-0.06	-1.68	-4.36e-05	5.15e-04	0.0
5901	-0.69	-0.05	-1.47	-3.59e-05	6.94e-04	0.0
5902	-0.53	-0.05	-1.33	-3.02e-05	5.33e-04	0.0
5911	-0.71	-0.02	-0.98	-1.09e-05	7.07e-04	0.0
5912	-0.54	-0.02	-0.95	-1.11e-05	5.43e-04	0.0
5913	-0.33	-0.02	-0.90	-1.57e-05	3.21e-04	0.0
5921	-0.71	0.02	-0.47	1.70e-05	7.08e-04	0.0
5922	-0.55	0.01	-0.56	1.04e-05	5.45e-04	0.0
5923	-0.33	-5.91e-03	-0.67	-3.11e-06	3.23e-04	0.0
5931	-0.70	0.05	0.03	4.29e-05	6.99e-04	0.0
5932	-0.54	0.04	-0.17	3.05e-05	5.38e-04	0.0
5933	-0.33	0.01	-0.44	8.88e-06	3.20e-04	0.0
5941	-0.67	0.08	0.50	6.26e-05	6.80e-04	0.0
5942	-0.52	0.06	0.19	4.58e-05	5.24e-04	0.0
5951	-0.64	0.10	0.91	7.27e-05	6.55e-04	0.0
5952	-0.49	0.07	0.51	5.39e-05	5.05e-04	0.0
5961	-0.60	0.09	1.26	7.16e-05	6.28e-04	0.0
5962	-0.47	0.07	0.77	5.35e-05	4.85e-04	0.0
5971	-0.57	0.08	1.52	5.97e-05	6.05e-04	0.0
5972	-0.44	0.06	0.98	4.48e-05	4.68e-04	0.0
5981	-0.55	0.05	1.69	3.93e-05	5.89e-04	0.0
5982	-0.43	0.04	1.10	2.97e-05	4.55e-04	0.0
5991	-0.54	0.02	1.75	1.42e-05	5.83e-04	0.0
5992	-0.42	0.01	1.15	1.09e-05	4.51e-04	0.0
6001	-0.55	-0.02	1.71	-1.12e-05	5.88e-04	0.0
6002	-0.42	-0.01	1.12	-8.02e-06	4.55e-04	0.0

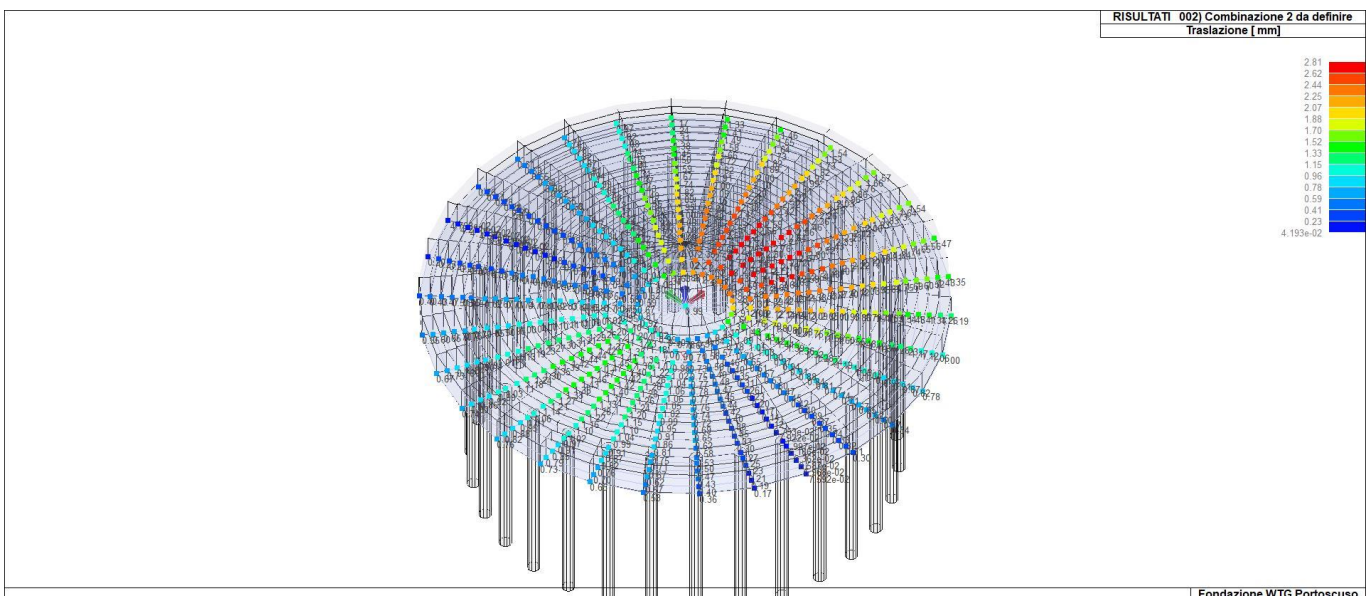


6011	-0.69	0.07	0.99	4.92e-05	6.68e-04	0.0
6012	-0.53	0.05	0.56	3.67e-05	5.15e-04	0.0

Nodo	Traslazione X			Traslazione Y		Traslazione Z		Rotazione X	Rotazione Y	Rotazione Z
	-0.86	-0.24	-3.41	-2.58e-04	-2.32e-04	0.0	0.0	0.0	0.0	0.0
	0.27	0.24	2.14	2.61e-04	7.44e-04	0.0	0.0	0.0	0.0	0.0



41\_RIS\_SPOSTAMENTI\_001\_Fondamentale



41\_RIS\_SPOSTAMENTI\_002\_Combinazione 2 da definire

Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	N	N	N	N mm	N mm	N mm	
32 1	4.794e+05	1.467e+05	-2.415e+04	6.831e+07	-2.039e+08	0.0	



32 2	3.877e+051.168e+05	-1.977e+04	5.435e+07	-1.653e+08	0.0
32 3	2.621e+057.482e+04	-1.384e+04	3.462e+07	-1.130e+08	0.0
62 1	-5.455e+04-2.332e+05	5611.93	-1.097e+08	4.354e+07	0.0
62 2	-5.166e+04-1.626e+05	3115.28	-7.684e+07	3.783e+07	0.0
62 3	-5.459e+04-6.300e+04	-506.80	-3.060e+07	3.270e+07	0.0
63 1	-1.456e+05-1.405e+05	1832.20	-6.653e+07	8.620e+07	0.0
63 2	-1.180e+05-8.960e+04	207.79	-4.293e+07	6.899e+07	0.0
63 3	-8.556e+04-1.591e+04	-2235.25	-8.733e+06	4.742e+07	0.0
64 1	-1.911e+05-1.633e+04	-2239.69	-8.670e+06	1.077e+08	0.0
64 2	-1.490e+056734.63	-2924.43	1.955e+06	8.373e+07	0.0
64 3	-9.503e+044.295e+04	-4083.39	1.868e+07	5.213e+07	0.0
65 1	-1.817e+051.180e+05	-6423.05	5.402e+07	1.035e+08	0.0
65 2	-1.377e+051.101e+05	-6142.40	5.018e+07	7.872e+07	0.0
65 3	-7.942e+041.038e+05	-5970.54	4.708e+07	4.513e+07	0.0
66 1	-1.174e+052.392e+05	-1.053e+04	1.106e+08	7.377e+07	0.0
66 2	-8.433e+042.025e+05	-9302.84	9.335e+07	5.406e+07	0.0
66 3	-3.944e+041.562e+05	-7814.62	7.157e+07	2.676e+07	0.0
67 1	-7978.803.259e+05	-1.438e+04	1.512e+08	2.291e+07	0.0
67 2	3564.39 2.675e+05	-1.227e+04	1.238e+08	1.329e+07	0.0
67 3	1.997e+041.906e+05	-9535.57	8.772e+07	-6.879e+05	0.0
68 1	1.291e+053.623e+05	-1.781e+04	1.683e+08	-4.083e+07	0.0
68 2	1.123e+052.931e+05	-1.490e+04	1.359e+08	-3.721e+07	0.0
68 3	9.035e+042.003e+05	-1.106e+04	9.241e+07	-3.329e+07	0.0
69 1	2.712e+053.414e+05	-2.065e+04	1.587e+08	-1.070e+08	0.0
69 2	2.243e+052.740e+05	-1.709e+04	1.272e+08	-8.930e+07	0.0
69 3	1.612e+051.824e+05	-1.232e+04	8.430e+07	-6.613e+07	0.0
70 1	3.948e+052.656e+05	-2.280e+04	1.236e+08	-1.645e+08	0.0
70 2	3.214e+052.122e+05	-1.874e+04	9.858e+07	-1.345e+08	0.0
70 3	2.216e+051.387e+05	-1.326e+04	6.413e+07	-9.415e+07	0.0
71 1	5.108e+05 3738.46	-2.464e+04	1.877e+06	-2.185e+08	0.0
71 2	4.123e+05 2873.54	-2.016e+04	1.443e+06	-1.767e+08	0.0
71 3	2.763e+05 27.90	-1.404e+04	1.398e+04	-1.196e+08	0.0
72 1	4.839e+05-1.400e+05	-2.427e+04	-6.493e+07	-2.059e+08	0.0
72 2	3.912e+05-1.117e+05	-1.987e+04	-5.175e+07	-1.669e+08	0.0
72 3	2.621e+05-7.477e+04	-1.384e+04	-3.459e+07	-1.130e+08	0.0
73 1	4.032e+05-2.613e+05	-2.304e+04	-1.213e+08	-1.683e+08	0.0
73 2	3.279e+05-2.089e+05	-1.892e+04	-9.681e+07	-1.374e+08	0.0
73 3	2.216e+05-1.386e+05	-1.326e+04	-6.411e+07	-9.416e+07	0.0
74 1	2.822e+05-3.406e+05	-2.101e+04	-1.581e+08	-1.120e+08	0.0
74 2	2.327e+05-2.734e+05	-1.736e+04	-1.267e+08	-9.315e+07	0.0
74 3	1.612e+05-1.824e+05	-1.232e+04	-8.429e+07	-6.615e+07	0.0
75 1	1.411e+05-3.657e+05	-1.827e+04	-1.696e+08	-4.632e+07	0.0
75 2	1.215e+05-2.957e+05	-1.526e+04	-1.369e+08	-4.143e+07	0.0
75 3	9.036e+04-2.003e+05	-1.106e+04	-9.241e+07	-3.330e+07	0.0
76 1	3222.04-3.333e+05	-1.494e+04	-1.543e+08	1.777e+07	0.0
76 2	1.218e+04-2.732e+05	-1.269e+04	-1.262e+08	9.330e+06	0.0



76 3	1.997e+04-1.906e+05	-9540.66	-8.774e+07	-6.907e+05	0.0
77 1	-1.088e+05-2.500e+05	-1.117e+04	-1.154e+08	6.977e+07	0.0
77 2	-7.767e+04-2.108e+05	-9792.03	-9.705e+07	5.099e+07	0.0
77 3	-3.945e+04-1.562e+05	-7819.82	-7.159e+07	2.677e+07	0.0
78 1	-1.770e+05-1.309e+05	-7115.00	-5.987e+07	1.014e+08	0.0
78 2	-1.341e+05-1.200e+05	-6674.72	-5.467e+07	7.706e+07	0.0
78 3	-7.946e+04-1.039e+05	-5975.54	-4.711e+07	4.515e+07	0.0
79 1	-1.911e+053304.31	-2959.78	2.642e+06	1.077e+08	0.0
79 2	-1.490e+05-1.675e+04	-3478.39	-6.591e+06	8.379e+07	0.0
79 3	-9.509e+04-4.302e+04	-4087.95	-1.871e+07	5.216e+07	0.0
80 1	-1.503e+051.293e+05	1117.38	6.129e+07	8.855e+07	0.0
80 2	-1.216e+058.101e+04	-342.12	3.890e+07	7.079e+07	0.0
80 3	-8.564e+041.584e+04	-2239.21	8.706e+06	4.746e+07	0.0
81 1	-6.319e+042.257e+05	4939.41	1.061e+08	4.776e+07	0.0
81 2	-5.831e+041.568e+05	2597.91	7.412e+07	4.107e+07	0.0
81 3	-5.468e+046.294e+04	-510.07	3.058e+07	3.273e+07	0.0
82 1	5.386e+042.765e+05	8340.68	1.297e+08	-6.939e+06	0.0
82 2	2.844e+041.983e+05	5214.27	9.331e+07	4.654e+05	0.0
82 3	-9372.809.093e+04	1023.59	4.349e+07	1.134e+07	0.0
83 1	1.793e+052.740e+05	1.117e+04	1.283e+08	-6.554e+07	0.0
83 2	1.223e+051.994e+05	7393.83	9.363e+07	-4.340e+07	0.0
83 3	4.082e+049.611e+04	2294.02	4.570e+07	-1.230e+07	0.0
84 1	2.905e+052.197e+05	1.332e+04	1.029e+08	-1.175e+08	0.0
84 2	2.058e+051.611e+05	9042.48	7.560e+07	-8.245e+07	0.0
84 3	8.587e+047.904e+04	3244.68	3.748e+07	-3.350e+07	0.0
85 1	3.675e+051.244e+05	1.468e+04	5.826e+07	-1.535e+08	0.0
85 2	2.637e+059.165e+04	1.009e+04	4.301e+07	-1.096e+08	0.0
85 3	1.170e+054.436e+04	3832.91	2.101e+07	-4.811e+07	0.0
86 1	3.965e+05 6036.54	1.520e+04	2.906e+06	-1.670e+08	0.0
86 2	2.856e+05 4643.54	1.049e+04	2.235e+06	-1.198e+08	0.0
86 3	1.280e+05 26.23	4032.21	1.410e+04	-5.332e+07	0.0
87 1	3.724e+05-1.136e+05	1.485e+04	-5.307e+07	-1.558e+08	0.0
87 2	2.675e+05-8.334e+04	1.022e+04	-3.902e+07	-1.114e+08	0.0
87 3	1.170e+05-4.437e+04	3833.53	-2.101e+07	-4.813e+07	0.0
88 1	2.992e+05-2.121e+05	1.365e+04	-9.923e+07	-1.217e+08	0.0
88 2	2.124e+05-1.553e+05	9300.39	-7.280e+07	-8.572e+07	0.0
88 3	8.593e+04-7.905e+04	3245.88	-3.748e+07	-3.352e+07	0.0
89 1	1.901e+05-2.711e+05	1.165e+04	-1.270e+08	-7.083e+07	0.0
89 2	1.306e+05-1.972e+05	7761.62	-9.257e+07	-4.747e+07	0.0
89 3	4.090e+04-9.614e+04	2295.88	-4.571e+07	-1.234e+07	0.0
90 1	6.465e+04-2.790e+05	8933.28	-1.309e+08	-1.221e+07	0.0
90 2	3.675e+04-2.002e+05	5670.16	-9.422e+07	-3.594e+06	0.0
90 3	-9286.17-9.098e+04	1026.14	-4.350e+07	1.130e+07	0.0

Nodo	Azione X Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	-1.911e+05-3.657e+05	-2.464e+04	-1.696e+08	-2.185e+08	0.0



	5.108e+053.623e+05	1.520e+04	1.683e+08	1.077e+08	0.0		
<b>Nodo</b>	<b>Cmb</b>	<b>Azione X</b>	<b>Azione Y</b>	<b>Azione Z</b>	<b>Azione RX</b>	<b>Azione RY</b>	<b>Azione RZ</b>
	N	N	N	N mm	N mm	N mm	
32 1	4.794e+051.467e+05	-2.415e+04	6.831e+07	-2.039e+08	0.0		
3	2.621e+057.482e+04	-1.384e+04	3.462e+07	-1.130e+08	0.0		
3	2.621e+057.482e+04	-1.384e+04	3.462e+07	-1.130e+08	0.0		
1	4.794e+051.467e+05	-2.415e+04	6.831e+07	-2.039e+08	0.0		
1	4.794e+051.467e+05	-2.415e+04	6.831e+07	-2.039e+08	0.0		
3	2.621e+057.482e+04	-1.384e+04	3.462e+07	-1.130e+08	0.0		
62 3	-5.459e+04-6.300e+04	-506.80	-3.060e+07	3.270e+07	0.0		
1	-5.455e+04-2.332e+05	5611.93	-1.097e+08	4.354e+07	0.0		
1	-5.455e+04-2.332e+05	5611.93	-1.097e+08	4.354e+07	0.0		
3	-5.459e+04-6.300e+04	-506.80	-3.060e+07	3.270e+07	0.0		
3	-5.459e+04-6.300e+04	-506.80	-3.060e+07	3.270e+07	0.0		
1	-5.455e+04-2.332e+05	5611.93	-1.097e+08	4.354e+07	0.0		
63 3	-8.556e+04-1.591e+04	-2235.25	-8.733e+06	4.742e+07	0.0		
1	-1.456e+05-1.405e+05	1832.20	-6.653e+07	8.620e+07	0.0		
1	-1.456e+05-1.405e+05	1832.20	-6.653e+07	8.620e+07	0.0		
3	-8.556e+04-1.591e+04	-2235.25	-8.733e+06	4.742e+07	0.0		
3	-8.556e+04-1.591e+04	-2235.25	-8.733e+06	4.742e+07	0.0		
1	-1.456e+05-1.405e+05	1832.20	-6.653e+07	8.620e+07	0.0		
64 3	-9.503e+044.295e+04	-4083.39	1.868e+07	5.213e+07	0.0		
1	-1.911e+05-1.633e+04	-2239.69	-8.670e+06	1.077e+08	0.0		
1	-1.911e+05-1.633e+04	-2239.69	-8.670e+06	1.077e+08	0.0		
3	-9.503e+044.295e+04	-4083.39	1.868e+07	5.213e+07	0.0		
3	-9.503e+044.295e+04	-4083.39	1.868e+07	5.213e+07	0.0		
1	-1.911e+05-1.633e+04	-2239.69	-8.670e+06	1.077e+08	0.0		
65 1	-1.817e+051.180e+05	-6423.05	5.402e+07	1.035e+08	0.0		
3	-7.942e+041.038e+05	-5970.54	4.708e+07	4.513e+07	0.0		
3	-7.942e+041.038e+05	-5970.54	4.708e+07	4.513e+07	0.0		
1	-1.817e+051.180e+05	-6423.05	5.402e+07	1.035e+08	0.0		
3	-7.942e+041.038e+05	-5970.54	4.708e+07	4.513e+07	0.0		
1	-1.817e+051.180e+05	-6423.05	5.402e+07	1.035e+08	0.0		
66 1	-1.174e+052.392e+05	-1.053e+04	1.106e+08	7.377e+07	0.0		
3	-3.944e+041.562e+05	-7814.62	7.157e+07	2.676e+07	0.0		
3	-3.944e+041.562e+05	-7814.62	7.157e+07	2.676e+07	0.0		
1	-1.174e+052.392e+05	-1.053e+04	1.106e+08	7.377e+07	0.0		
3	-3.944e+041.562e+05	-7814.62	7.157e+07	2.676e+07	0.0		
1	-1.174e+052.392e+05	-1.053e+04	1.106e+08	7.377e+07	0.0		
67 1	-7978.803.259e+05	-1.438e+04	1.512e+08	2.291e+07	0.0		
3	1.997e+041.906e+05	-9535.57	8.772e+07	-6.879e+05	0.0		
3	1.997e+041.906e+05	-9535.57	8.772e+07	-6.879e+05	0.0		
1	-7978.803.259e+05	-1.438e+04	1.512e+08	2.291e+07	0.0		
3	1.997e+041.906e+05	-9535.57	8.772e+07	-6.879e+05	0.0		
1	-7978.803.259e+05	-1.438e+04	1.512e+08	2.291e+07	0.0		



68	1	1.291e+053.623e+05	-1.781e+04	1.683e+08	-4.083e+07	0.0
3		9.035e+042.003e+05	-1.106e+04	9.241e+07	-3.329e+07	0.0
3		9.035e+042.003e+05	-1.106e+04	9.241e+07	-3.329e+07	0.0
1		1.291e+053.623e+05	-1.781e+04	1.683e+08	-4.083e+07	0.0
1		1.291e+053.623e+05	-1.781e+04	1.683e+08	-4.083e+07	0.0
3		9.035e+042.003e+05	-1.106e+04	9.241e+07	-3.329e+07	0.0
69	1	2.712e+053.414e+05	-2.065e+04	1.587e+08	-1.070e+08	0.0
3		1.612e+051.824e+05	-1.232e+04	8.430e+07	-6.613e+07	0.0
3		1.612e+051.824e+05	-1.232e+04	8.430e+07	-6.613e+07	0.0
1		2.712e+053.414e+05	-2.065e+04	1.587e+08	-1.070e+08	0.0
1		2.712e+053.414e+05	-2.065e+04	1.587e+08	-1.070e+08	0.0
3		1.612e+051.824e+05	-1.232e+04	8.430e+07	-6.613e+07	0.0
70	1	3.948e+052.656e+05	-2.280e+04	1.236e+08	-1.645e+08	0.0
3		2.216e+051.387e+05	-1.326e+04	6.413e+07	-9.415e+07	0.0
3		2.216e+051.387e+05	-1.326e+04	6.413e+07	-9.415e+07	0.0
1		3.948e+052.656e+05	-2.280e+04	1.236e+08	-1.645e+08	0.0
1		3.948e+052.656e+05	-2.280e+04	1.236e+08	-1.645e+08	0.0
3		2.216e+051.387e+05	-1.326e+04	6.413e+07	-9.415e+07	0.0
71	1	5.108e+05 3738.46	-2.464e+04	1.877e+06	-2.185e+08	0.0
3		2.763e+05 27.90	-1.404e+04	1.398e+04	-1.196e+08	0.0
3		2.763e+05 27.90	-1.404e+04	1.398e+04	-1.196e+08	0.0
1		5.108e+05 3738.46	-2.464e+04	1.877e+06	-2.185e+08	0.0
1		5.108e+05 3738.46	-2.464e+04	1.877e+06	-2.185e+08	0.0
3		2.763e+05 27.90	-1.404e+04	1.398e+04	-1.196e+08	0.0
72	1	4.839e+05-1.400e+05	-2.427e+04	-6.493e+07	-2.059e+08	0.0
3		2.621e+05-7.477e+04	-1.384e+04	-3.459e+07	-1.130e+08	0.0
1		4.839e+05-1.400e+05	-2.427e+04	-6.493e+07	-2.059e+08	0.0
3		2.621e+05-7.477e+04	-1.384e+04	-3.459e+07	-1.130e+08	0.0
1		4.839e+05-1.400e+05	-2.427e+04	-6.493e+07	-2.059e+08	0.0
3		2.621e+05-7.477e+04	-1.384e+04	-3.459e+07	-1.130e+08	0.0
73	1	4.032e+05-2.613e+05	-2.304e+04	-1.213e+08	-1.683e+08	0.0
3		2.216e+05-1.386e+05	-1.326e+04	-6.411e+07	-9.416e+07	0.0
1		4.032e+05-2.613e+05	-2.304e+04	-1.213e+08	-1.683e+08	0.0
3		2.216e+05-1.386e+05	-1.326e+04	-6.411e+07	-9.416e+07	0.0
1		4.032e+05-2.613e+05	-2.304e+04	-1.213e+08	-1.683e+08	0.0
3		2.216e+05-1.386e+05	-1.326e+04	-6.411e+07	-9.416e+07	0.0
74	1	2.822e+05-3.406e+05	-2.101e+04	-1.581e+08	-1.120e+08	0.0
3		1.612e+05-1.824e+05	-1.232e+04	-8.429e+07	-6.615e+07	0.0
1		2.822e+05-3.406e+05	-2.101e+04	-1.581e+08	-1.120e+08	0.0
3		1.612e+05-1.824e+05	-1.232e+04	-8.429e+07	-6.615e+07	0.0
1		2.822e+05-3.406e+05	-2.101e+04	-1.581e+08	-1.120e+08	0.0
3		1.612e+05-1.824e+05	-1.232e+04	-8.429e+07	-6.615e+07	0.0
75	1	1.411e+05-3.657e+05	-1.827e+04	-1.696e+08	-4.632e+07	0.0
3		9.036e+04-2.003e+05	-1.106e+04	-9.241e+07	-3.330e+07	0.0
1		1.411e+05-3.657e+05	-1.827e+04	-1.696e+08	-4.632e+07	0.0
3		9.036e+04-2.003e+05	-1.106e+04	-9.241e+07	-3.330e+07	0.0

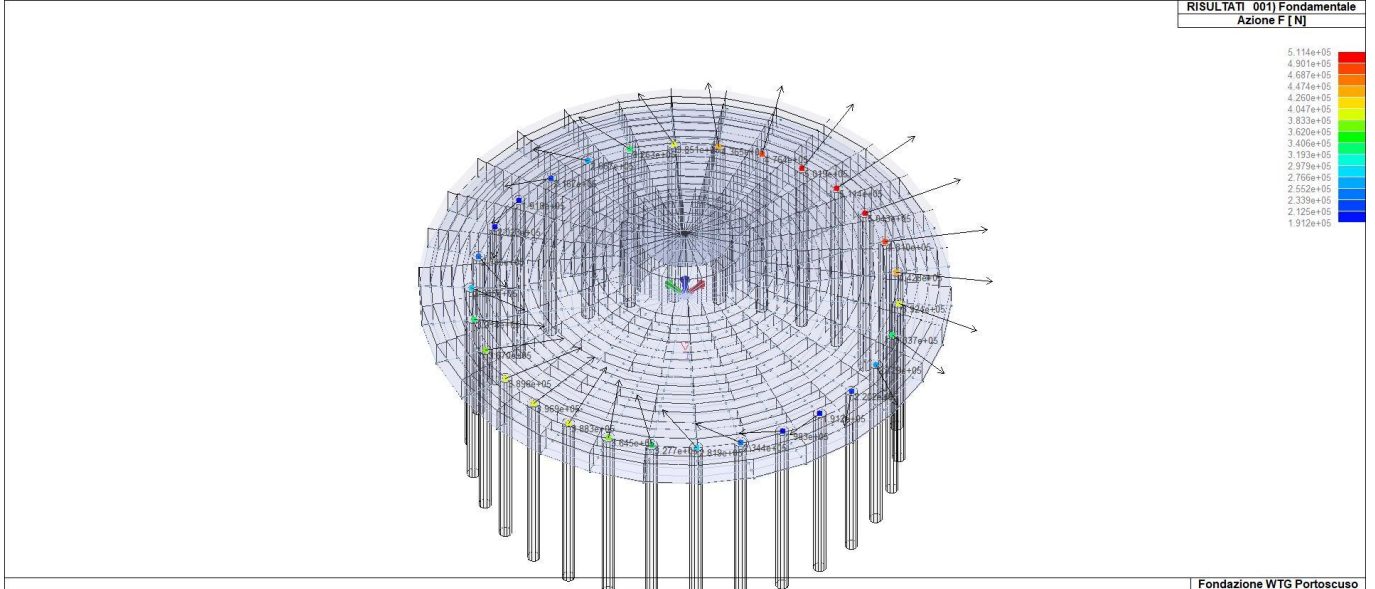




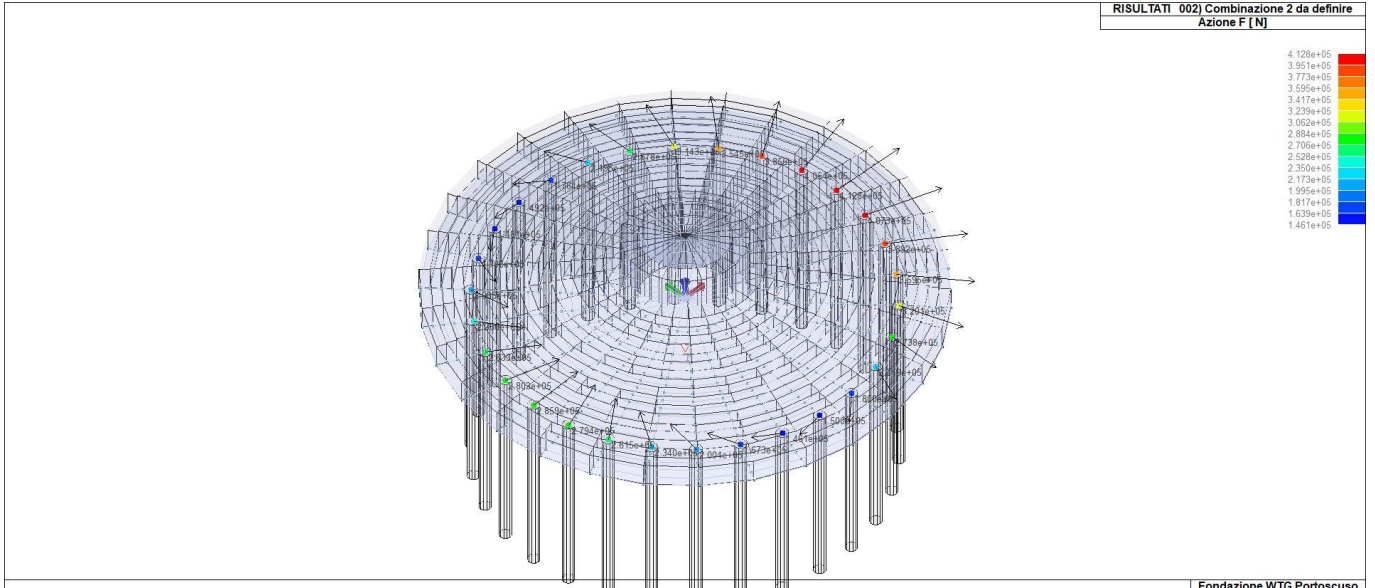
1	1.411e+05-3.657e+05	-1.827e+04	-1.696e+08	-4.632e+07	0.0
3	9.036e+04-2.003e+05	-1.106e+04	-9.241e+07	-3.330e+07	0.0
76 1	3222.04-3.333e+05	-1.494e+04	-1.543e+08	1.777e+07	0.0
3	1.997e+04-1.906e+05	-9540.66	-8.774e+07	-6.907e+05	0.0
1	3222.04-3.333e+05	-1.494e+04	-1.543e+08	1.777e+07	0.0
3	1.997e+04-1.906e+05	-9540.66	-8.774e+07	-6.907e+05	0.0
3	1.997e+04-1.906e+05	-9540.66	-8.774e+07	-6.907e+05	0.0
1	3222.04-3.333e+05	-1.494e+04	-1.543e+08	1.777e+07	0.0
77 1	-1.088e+05-2.500e+05	-1.117e+04	-1.154e+08	6.977e+07	0.0
3	-3.945e+04-1.562e+05	-7819.82	-7.159e+07	2.677e+07	0.0
1	-1.088e+05-2.500e+05	-1.117e+04	-1.154e+08	6.977e+07	0.0
3	-3.945e+04-1.562e+05	-7819.82	-7.159e+07	2.677e+07	0.0
3	-3.945e+04-1.562e+05	-7819.82	-7.159e+07	2.677e+07	0.0
1	-1.088e+05-2.500e+05	-1.117e+04	-1.154e+08	6.977e+07	0.0
78 1	-1.770e+05-1.309e+05	-7115.00	-5.987e+07	1.014e+08	0.0
3	-7.946e+04-1.039e+05	-5975.54	-4.711e+07	4.515e+07	0.0
1	-1.770e+05-1.309e+05	-7115.00	-5.987e+07	1.014e+08	0.0
3	-7.946e+04-1.039e+05	-5975.54	-4.711e+07	4.515e+07	0.0
3	-7.946e+04-1.039e+05	-5975.54	-4.711e+07	4.515e+07	0.0
1	-1.770e+05-1.309e+05	-7115.00	-5.987e+07	1.014e+08	0.0
79 3	-9.509e+04-4.302e+04	-4087.95	-1.871e+07	5.216e+07	0.0
1	-1.911e+05 3304.31	-2959.78	2.642e+06	1.077e+08	0.0
3	-9.509e+04-4.302e+04	-4087.95	-1.871e+07	5.216e+07	0.0
1	-1.911e+05 3304.31	-2959.78	2.642e+06	1.077e+08	0.0
3	-9.509e+04-4.302e+04	-4087.95	-1.871e+07	5.216e+07	0.0
1	-1.911e+05 3304.31	-2959.78	2.642e+06	1.077e+08	0.0
80 3	-8.564e+04 1.584e+04	-2239.21	8.706e+06	4.746e+07	0.0
1	-1.503e+05 1.293e+05	1117.38	6.129e+07	8.855e+07	0.0
3	-8.564e+04 1.584e+04	-2239.21	8.706e+06	4.746e+07	0.0
1	-1.503e+05 1.293e+05	1117.38	6.129e+07	8.855e+07	0.0
3	-8.564e+04 1.584e+04	-2239.21	8.706e+06	4.746e+07	0.0
1	-1.503e+05 1.293e+05	1117.38	6.129e+07	8.855e+07	0.0
81 3	-5.468e+04 6.294e+04	-510.07	3.058e+07	3.273e+07	0.0
1	-6.319e+04 2.257e+05	4939.41	1.061e+08	4.776e+07	0.0
3	-5.468e+04 6.294e+04	-510.07	3.058e+07	3.273e+07	0.0
1	-6.319e+04 2.257e+05	4939.41	1.061e+08	4.776e+07	0.0
3	-5.468e+04 6.294e+04	-510.07	3.058e+07	3.273e+07	0.0
1	-6.319e+04 2.257e+05	4939.41	1.061e+08	4.776e+07	0.0
82 3	-9372.80 9.093e+04	1023.59	4.349e+07	1.134e+07	0.0
1	5.386e+04 2.765e+05	8340.68	1.297e+08	-6.939e+06	0.0
3	-9372.80 9.093e+04	1023.59	4.349e+07	1.134e+07	0.0
1	5.386e+04 2.765e+05	8340.68	1.297e+08	-6.939e+06	0.0
1	5.386e+04 2.765e+05	8340.68	1.297e+08	-6.939e+06	0.0
3	-9372.80 9.093e+04	1023.59	4.349e+07	1.134e+07	0.0
83 3	4.082e+04 9.611e+04	2294.02	4.570e+07	-1.230e+07	0.0
1	1.793e+05 2.740e+05	1.117e+04	1.283e+08	-6.554e+07	0.0



3	4.082e+049.611e+04	2294.02	4.570e+07	-1.230e+07	0.0
1	1.793e+052.740e+05	1.117e+04	1.283e+08	-6.554e+07	0.0
1	1.793e+052.740e+05	1.117e+04	1.283e+08	-6.554e+07	0.0
3	4.082e+049.611e+04	2294.02	4.570e+07	-1.230e+07	0.0
84 3	8.587e+047.904e+04	3244.68	3.748e+07	-3.350e+07	0.0
1	2.905e+052.197e+05	1.332e+04	1.029e+08	-1.175e+08	0.0
3	8.587e+047.904e+04	3244.68	3.748e+07	-3.350e+07	0.0
1	2.905e+052.197e+05	1.332e+04	1.029e+08	-1.175e+08	0.0
1	2.905e+052.197e+05	1.332e+04	1.029e+08	-1.175e+08	0.0
3	8.587e+047.904e+04	3244.68	3.748e+07	-3.350e+07	0.0
85 3	1.170e+054.436e+04	3832.91	2.101e+07	-4.811e+07	0.0
1	3.675e+051.244e+05	1.468e+04	5.826e+07	-1.535e+08	0.0
3	1.170e+054.436e+04	3832.91	2.101e+07	-4.811e+07	0.0
1	3.675e+051.244e+05	1.468e+04	5.826e+07	-1.535e+08	0.0
1	3.675e+051.244e+05	1.468e+04	5.826e+07	-1.535e+08	0.0
3	1.170e+054.436e+04	3832.91	2.101e+07	-4.811e+07	0.0
86 3	1.280e+05 26.23	4032.21	1.410e+04	-5.332e+07	0.0
1	3.965e+05 6036.54	1.520e+04	2.906e+06	-1.670e+08	0.0
3	1.280e+05 26.23	4032.21	1.410e+04	-5.332e+07	0.0
1	3.965e+05 6036.54	1.520e+04	2.906e+06	-1.670e+08	0.0
1	3.965e+05 6036.54	1.520e+04	2.906e+06	-1.670e+08	0.0
3	1.280e+05 26.23	4032.21	1.410e+04	-5.332e+07	0.0
87 3	1.170e+05-4.437e+04	3833.53	-2.101e+07	-4.813e+07	0.0
1	3.724e+05-1.136e+05	1.485e+04	-5.307e+07	-1.558e+08	0.0
1	3.724e+05-1.136e+05	1.485e+04	-5.307e+07	-1.558e+08	0.0
3	1.170e+05-4.437e+04	3833.53	-2.101e+07	-4.813e+07	0.0
1	3.724e+05-1.136e+05	1.485e+04	-5.307e+07	-1.558e+08	0.0
3	1.170e+05-4.437e+04	3833.53	-2.101e+07	-4.813e+07	0.0
88 3	8.593e+04-7.905e+04	3245.88	-3.748e+07	-3.352e+07	0.0
1	2.992e+05-2.121e+05	1.365e+04	-9.923e+07	-1.217e+08	0.0
1	2.992e+05-2.121e+05	1.365e+04	-9.923e+07	-1.217e+08	0.0
3	8.593e+04-7.905e+04	3245.88	-3.748e+07	-3.352e+07	0.0
1	2.992e+05-2.121e+05	1.365e+04	-9.923e+07	-1.217e+08	0.0
3	8.593e+04-7.905e+04	3245.88	-3.748e+07	-3.352e+07	0.0
89 3	4.090e+04-9.614e+04	2295.88	-4.571e+07	-1.234e+07	0.0
1	1.901e+05-2.711e+05	1.165e+04	-1.270e+08	-7.083e+07	0.0
1	1.901e+05-2.711e+05	1.165e+04	-1.270e+08	-7.083e+07	0.0
3	4.090e+04-9.614e+04	2295.88	-4.571e+07	-1.234e+07	0.0
1	1.901e+05-2.711e+05	1.165e+04	-1.270e+08	-7.083e+07	0.0
3	4.090e+04-9.614e+04	2295.88	-4.571e+07	-1.234e+07	0.0
90 3	-9286.17-9.098e+04	1026.14	-4.350e+07	1.130e+07	0.0
1	6.465e+04-2.790e+05	8933.28	-1.309e+08	-1.221e+07	0.0
1	6.465e+04-2.790e+05	8933.28	-1.309e+08	-1.221e+07	0.0
3	-9286.17-9.098e+04	1026.14	-4.350e+07	1.130e+07	0.0
1	6.465e+04-2.790e+05	8933.28	-1.309e+08	-1.221e+07	0.0
3	-9286.17-9.098e+04	1026.14	-4.350e+07	1.130e+07	0.0



42\_RIS\_REAZIONI\_001\_Fondamentale



42\_RIS\_REAZIONI\_002\_Combinazione 2 da definire

## 11. RISULTATI OPERE DI FONDAZIONE

### 11.1. 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 (esprese nel riferimento globale della struttura) per ogni palo componente l'opera.

In particolare viene riportato:

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

L'azione  $F_z$  ( 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:

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



<b>Comb</b>	Combinazione di carico in cui si verificano i valori riportati
<b>Pt (P1 P2 P3 P4)</b>	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](http://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	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
				mm	N	N	N	N mm	N mm	N mm



Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
32	PALO 60.00	D1	1	0.0	4.794e+05	1.467e+05	-2.415e+04	-6.831e+07	-2.039e+08	0.0
		1	2	0.0	3.877e+05	1.168e+05	-1.977e+04	-5.435e+07	-1.653e+08	0.0
		1	3	0.0	2.621e+05	7.482e+04	-1.384e+04	-3.462e+07	-1.130e+08	0.0
62	PALO 60.00	D1	1	0.0	-5.455e+04	-2.332e+05	5611.93	1.097e+08	4.354e+07	0.0
		1	2	0.0	-5.166e+04	-1.626e+05	3115.28	7.684e+07	3.783e+07	0.0
		1	3	0.0	-5.459e+04	-6.300e+04	-506.80	3.060e+07	3.270e+07	0.0
63	PALO 60.00	D1	1	0.0	-1.456e+05	-1.405e+05	1832.20	6.653e+07	8.620e+07	0.0
		1	2	0.0	-1.180e+05	-8.960e+04	207.79	4.293e+07	6.899e+07	0.0
		1	3	0.0	-8.556e+04	-1.591e+04	-2235.25	8.733e+06	4.742e+07	0.0
64	PALO 60.00	D1	1	0.0	-1.911e+05	-1.633e+04	-2239.69	8.670e+06	1.077e+08	0.0
		1	2	0.0	-1.490e+05	6734.63	-2924.43	-1.955e+06	8.373e+07	0.0
		1	3	0.0	-9.503e+04	4.295e+04	-4083.39	-1.868e+07	5.213e+07	0.0
65	PALO 60.00	D1	1	0.0	-1.817e+05	1.180e+05	-6423.05	-5.402e+07	1.035e+08	0.0
		1	2	0.0	-1.377e+05	1.101e+05	-6142.40	-5.018e+07	7.872e+07	0.0
		1	3	0.0	-7.942e+04	1.038e+05	-5970.54	-4.708e+07	4.513e+07	0.0
66	PALO 60.00	D1	1	0.0	-1.174e+05	2.392e+05	-1.053e+04	-1.106e+08	7.377e+07	0.0
		1	2	0.0	-8.433e+04	2.025e+05	-9302.84	-9.335e+07	5.406e+07	0.0
		1	3	0.0	-3.944e+04	1.562e+05	-7814.62	-7.157e+07	2.676e+07	0.0
67	PALO 60.00	D1	1	0.0	-7978.80	3.259e+05	-1.438e+04	-1.512e+08	2.291e+07	0.0
		1	2	0.0	3564.39	2.675e+05	-1.227e+04	-1.238e+08	1.329e+07	0.0
		1	3	0.0	1.997e+04	1.906e+05	-9535.57	-8.772e+07	-6.879e+05	0.0
68	PALO 60.00	D1	1	0.0	1.291e+05	3.623e+05	-1.781e+04	-1.683e+08	-4.083e+07	0.0
		1	2	0.0	1.123e+05	2.931e+05	-1.490e+04	-1.359e+08	-3.721e+07	0.0
		1	3	0.0	9.035e+04	2.003e+05	-1.106e+04	-9.241e+07	-3.329e+07	0.0
69	PALO 60.00	D1	1	0.0	2.712e+05	3.414e+05	-2.065e+04	-1.587e+08	-1.070e+08	0.0
		1	2	0.0	2.243e+05	2.740e+05	-1.709e+04	-1.272e+08	-8.930e+07	0.0
		1	3	0.0	1.612e+05	1.824e+05	-1.232e+04	-8.430e+07	-6.613e+07	0.0
70	PALO	D1	1	0.0	3.948e+05	2.656e+05	-2.280e+04	-1.236e+08	-1.645e+08	0.0



Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
	60.00									
		1	2	0.0	3.214e+05	2.122e+05	-1.874e+04	-9.858e+07	-1.345e+08	0.0
		1	3	0.0	2.216e+05	1.387e+05	-1.326e+04	-6.413e+07	-9.415e+07	0.0
71	PALO 60.00	D1	1	0.0	5.108e+05	3738.46	-2.464e+04	-1.877e+06	-2.185e+08	0.0
		1	2	0.0	4.123e+05	2873.54	-2.016e+04	-1.443e+06	-1.767e+08	0.0
		1	3	0.0	2.763e+05	27.90	-1.404e+04	-1.398e+04	-1.196e+08	0.0
72	PALO 60.00	D1	1	0.0	4.839e+05	-1.400e+05	-2.427e+04	6.493e+07	-2.059e+08	0.0
		1	2	0.0	3.912e+05	-1.117e+05	-1.987e+04	5.175e+07	-1.669e+08	0.0
		1	3	0.0	2.621e+05	-7.477e+04	-1.384e+04	3.459e+07	-1.130e+08	0.0
73	PALO 60.00	D1	1	0.0	4.032e+05	-2.613e+05	-2.304e+04	1.213e+08	-1.683e+08	0.0
		1	2	0.0	3.279e+05	-2.089e+05	-1.892e+04	9.681e+07	-1.374e+08	0.0
		1	3	0.0	2.216e+05	-1.386e+05	-1.326e+04	6.411e+07	-9.416e+07	0.0
74	PALO 60.00	D1	1	0.0	2.822e+05	-3.406e+05	-2.101e+04	1.581e+08	-1.120e+08	0.0
		1	2	0.0	2.327e+05	-2.734e+05	-1.736e+04	1.267e+08	-9.315e+07	0.0
		1	3	0.0	1.612e+05	-1.824e+05	-1.232e+04	8.429e+07	-6.615e+07	0.0
75	PALO 60.00	D1	1	0.0	1.411e+05	-3.657e+05	-1.827e+04	1.696e+08	-4.632e+07	0.0
		1	2	0.0	1.215e+05	-2.957e+05	-1.526e+04	1.369e+08	-4.143e+07	0.0
		1	3	0.0	9.036e+04	-2.003e+05	-1.106e+04	9.241e+07	-3.330e+07	0.0
76	PALO 60.00	D1	1	0.0	3222.04	-3.333e+05	-1.494e+04	1.543e+08	1.777e+07	0.0
		1	2	0.0	1.218e+04	-2.732e+05	-1.269e+04	1.262e+08	9.330e+06	0.0
		1	3	0.0	1.997e+04	-1.906e+05	-9540.66	8.774e+07	-6.907e+05	0.0
77	PALO 60.00	D1	1	0.0	-1.088e+05	-2.500e+05	-1.117e+04	1.154e+08	6.977e+07	0.0
		1	2	0.0	-7.767e+04	-2.108e+05	-9792.03	9.705e+07	5.099e+07	0.0
		1	3	0.0	-3.945e+04	-1.562e+05	-7819.82	7.159e+07	2.677e+07	0.0
78	PALO 60.00	D1	1	0.0	-1.770e+05	-1.309e+05	-7115.00	5.987e+07	1.014e+08	0.0
		1	2	0.0	-1.341e+05	-1.200e+05	-6674.72	5.467e+07	7.706e+07	0.0
		1	3	0.0	-7.946e+04	-1.039e+05	-5975.54	4.711e+07	4.515e+07	0.0
79	PALO 60.00	D1	1	0.0	-1.911e+05	3304.31	-2959.78	-2.642e+06	1.077e+08	0.0





Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
		1	2	0.0	-1.490e+05	-1.675e+04	-3478.39	6.591e+06	8.379e+07	0.0
		1	3	0.0	-9.509e+04	-4.302e+04	-4087.95	1.871e+07	5.216e+07	0.0
80	PALO 60.00	D1	1	0.0	-1.503e+05	1.293e+05	1117.38	-6.129e+07	8.855e+07	0.0
		1	2	0.0	-1.216e+05	8.101e+04	-342.12	-3.890e+07	7.079e+07	0.0
		1	3	0.0	-8.564e+04	1.584e+04	-2239.21	-8.706e+06	4.746e+07	0.0
81	PALO 60.00	D1	1	0.0	-6.319e+04	2.257e+05	4939.41	-1.061e+08	4.776e+07	0.0
		1	2	0.0	-5.831e+04	1.568e+05	2597.91	-7.412e+07	4.107e+07	0.0
		1	3	0.0	-5.468e+04	6.294e+04	-510.07	-3.058e+07	3.273e+07	0.0
82	PALO 60.00	D1	1	0.0	5.386e+04	2.765e+05	8340.68	-1.297e+08	-6.939e+06	0.0
		1	2	0.0	2.844e+04	1.983e+05	5214.27	-9.331e+07	4.654e+05	0.0
		1	3	0.0	-9372.80	9.093e+04	1023.59	-4.349e+07	1.134e+07	0.0
83	PALO 60.00	D1	1	0.0	1.793e+05	2.740e+05	1.117e+04	-1.283e+08	-6.554e+07	0.0
		1	2	0.0	1.223e+05	1.994e+05	7393.83	-9.363e+07	-4.340e+07	0.0
		1	3	0.0	4.082e+04	9.611e+04	2294.02	-4.570e+07	-1.230e+07	0.0
84	PALO 60.00	D1	1	0.0	2.905e+05	2.197e+05	1.332e+04	-1.029e+08	-1.175e+08	0.0
		1	2	0.0	2.058e+05	1.611e+05	9042.48	-7.560e+07	-8.245e+07	0.0
		1	3	0.0	8.587e+04	7.904e+04	3244.68	-3.748e+07	-3.350e+07	0.0
85	PALO 60.00	D1	1	0.0	3.675e+05	1.244e+05	1.468e+04	-5.826e+07	-1.535e+08	0.0
		1	2	0.0	2.637e+05	9.165e+04	1.009e+04	-4.301e+07	-1.096e+08	0.0
		1	3	0.0	1.170e+05	4.436e+04	3832.91	-2.101e+07	-4.811e+07	0.0
86	PALO 60.00	D1	1	0.0	3.965e+05	6036.54	1.520e+04	-2.906e+06	-1.670e+08	0.0
		1	2	0.0	2.856e+05	4643.54	1.049e+04	-2.235e+06	-1.198e+08	0.0
		1	3	0.0	1.280e+05	26.23	4032.21	-1.410e+04	-5.332e+07	0.0
87	PALO 60.00	D1	1	0.0	3.724e+05	-1.136e+05	1.485e+04	5.307e+07	-1.558e+08	0.0
		1	2	0.0	2.675e+05	-8.334e+04	1.022e+04	3.902e+07	-1.114e+08	0.0
		1	3	0.0	1.170e+05	-4.437e+04	3833.53	2.101e+07	-4.813e+07	0.0
88	PALO 60.00	D1	1	0.0	2.992e+05	-2.121e+05	1.365e+04	9.923e+07	-1.217e+08	0.0
		1	2	0.0	2.124e+05	-1.553e+05	9300.39	7.280e+07	-8.572e+07	0.0



Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
		1	3	0.0	8.593e+04	-7.905e+04	3245.88	3.748e+07	-3.352e+07	0.0
89	PALO 60.00	D1	1	0.0	1.901e+05	-2.711e+05	1.165e+04	1.270e+08	-7.083e+07	0.0
		1	2	0.0	1.306e+05	-1.972e+05	7761.62	9.257e+07	-4.747e+07	0.0
		1	3	0.0	4.090e+04	-9.614e+04	2295.88	4.571e+07	-1.234e+07	0.0
90	PALO 60.00	D1	1	0.0	6.465e+04	-2.790e+05	8933.28	1.309e+08	-1.221e+07	0.0
		1	2	0.0	3.675e+04	-2.002e+05	5670.16	9.422e+07	-3.594e+06	0.0
		1	3	0.0	-9286.17	-9.098e+04	1026.14	4.350e+07	1.130e+07	0.0
Nodo					Fx	Fy	Fz	Mx	My	Mz
					-1.911e+05	-3.657e+05	-2.464e+04	-1.683e+08	-2.185e+08	0.0
					5.108e+05	3.623e+05	1.520e+04	1.696e+08	1.077e+08	0.0

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...
	daN/cm2	daN/cm2	daN/cm2	daN/cm2
1	-1.32	-1.21		
2	-1.72	-1.52		
3	-2.09	-1.80		
4	-2.39	-2.03		
5	-2.61	-2.21		
6	-2.76	-2.32		
7	-2.81	-2.36		
8	-2.77	-2.33		
9	-2.64	-2.23		
10	-2.42	-2.06		
11	-2.13	-1.84		
12	-1.78	-1.56		
13	-1.38	-1.26		
14	-0.95	-0.93		
15	-0.59	-0.70		
16	-0.25	-0.50		
17	0.06	-0.32		
18	0.33	-0.16		
19	0.74	0.08		
20	0.85	0.15		
21	0.89	0.17		
22	0.86	0.15		
23	0.76	0.08		
24	0.60	-0.02		



25	0.39	-0.16
26	0.13	-0.32
27	-0.19	-0.50
28	-0.53	-0.70
29	-0.87	-0.90
30	-0.74	-0.81
31	-1.89	-1.55
32	-2.42	-1.99
33	-1.75	-1.45
34	-1.59	-1.32
35	-1.38	-1.16
36	-1.12	-0.96
37	-0.84	-0.74
38	-0.53	-0.50
39	-0.26	-0.34
40	-0.03	-0.20
41	-1.86	-1.53
42	-1.77	-1.46
43	-1.62	-1.34
44	-1.41	-1.18
45	-1.16	-0.99
46	-0.88	-0.77
47	-0.58	-0.54
48	-0.30	-0.34
49	-0.07	-0.20
50	0.15	-0.07
51	0.35	0.04
52	0.51	0.14
53	0.64	0.21
54	0.72	0.25
55	0.75	0.27
56	0.73	0.25
57	0.66	0.21
58	0.54	0.14
59	0.38	0.04
60	0.19	-0.07
61	-1.86	-1.52
62	0.31	-0.05
63	0.02	-0.22
64	-0.29	-0.41
65	-0.65	-0.62
66	-1.06	-0.93
67	-1.44	-1.23
68	-1.79	-1.50
69	-2.07	-1.72
70	-2.29	-1.88



71	-2.47	-2.02
72	-2.44	-2.00
73	-2.31	-1.90
74	-2.11	-1.74
75	-1.83	-1.53
76	-1.50	-1.27
77	-1.12	-0.98
78	-0.71	-0.67
79	-0.35	-0.41
80	-0.03	-0.22
81	0.26	-0.05
82	0.52	0.10
83	0.74	0.23
84	0.91	0.33
85	1.01	0.38
86	1.05	0.40
87	1.03	0.38
88	0.93	0.33
89	0.78	0.23
90	0.57	0.10
91	0.42	0.05
92	0.22	-0.07
93	-0.02	-0.21
94	-0.27	-0.35
95	-0.55	-0.53
96	-0.88	-0.78
97	-1.19	-1.02
98	-1.46	-1.23
99	-1.69	-1.40
100	-1.86	-1.53
101	-1.97	-1.62
102	-2.01	-1.65
103	-1.98	-1.62
104	-1.88	-1.55
105	-1.72	-1.42
106	-1.50	-1.25
107	-1.23	-1.05
108	-0.93	-0.82
109	-0.61	-0.57
110	-0.31	-0.35
111	-0.06	-0.21
112	0.18	-0.07
113	0.39	0.05
114	0.56	0.16
115	0.69	0.23
116	0.78	0.28



117	0.81	0.29
118	0.79	0.28
119	0.71	0.23
120	0.59	0.16
121	-7.03e-03	-0.21
122	-0.27	-0.37
123	-0.58	-0.55
124	-0.93	-0.82
125	-1.26	-1.07
126	-1.55	-1.30
127	-1.79	-1.48
128	-1.97	-1.62
129	-2.09	-1.71
130	-2.13	-1.75
131	-2.10	-1.72
132	-1.99	-1.64
133	-1.82	-1.51
134	-1.59	-1.33
135	-1.30	-1.11
136	-0.98	-0.86
137	-0.63	-0.59
138	-0.32	-0.37
139	-0.05	-0.21
140	0.20	-0.06
141	0.42	0.07
142	0.61	0.17
143	0.75	0.26
144	0.84	0.31
145	0.87	0.32
146	0.85	0.31
147	0.77	0.26
148	0.64	0.18
149	0.46	0.07
150	0.24	-0.06
151	2.98e-03	-0.22
152	-0.28	-0.38
153	-0.60	-0.57
154	-0.97	-0.86
155	-1.32	-1.13
156	-1.63	-1.37
157	-1.89	-1.57
158	-2.09	-1.72
159	-2.21	-1.81
160	-2.25	-1.85
161	-2.22	-1.82
162	-2.11	-1.73



163	-1.92	-1.59
164	-1.68	-1.40
165	-1.37	-1.17
166	-1.03	-0.90
167	-0.66	-0.62
168	-0.33	-0.38
169	-0.05	-0.22
170	0.22	-0.06
171	0.46	0.08
172	0.66	0.19
173	0.81	0.28
174	0.90	0.33
175	0.94	0.35
176	0.91	0.33
177	0.83	0.28
178	0.69	0.20
179	0.50	0.08
180	0.27	-0.06
181	0.29	-0.05
182	0.01	-0.22
183	-0.29	-0.40
184	-0.63	-0.60
185	-1.02	-0.90
186	-1.39	-1.19
187	-1.72	-1.44
188	-2.00	-1.65
189	-2.20	-1.81
190	-2.33	-1.91
191	-2.38	-1.95
192	-2.34	-1.92
193	-2.23	-1.83
194	-2.03	-1.68
195	-1.77	-1.48
196	-1.45	-1.23
197	-1.08	-0.95
198	-0.69	-0.65
199	-0.34	-0.40
200	-0.04	-0.22
201	0.24	-0.05
202	0.50	0.09
203	0.71	0.22
204	0.86	0.31
205	0.96	0.36
206	1.00	0.38
207	0.98	0.36
208	0.89	0.31



209	0.74	0.22
210	0.54	0.09
211	0.34	-0.05
212	0.03	-0.23
213	-0.30	-0.43
214	-0.68	-0.65
215	-1.11	-0.98
216	-1.53	-1.30
217	-1.89	-1.58
218	-2.20	-1.82
219	-2.43	-1.99
220	-2.57	-2.10
221	-2.62	-2.14
222	-2.58	-2.11
223	-2.45	-2.01
224	-2.23	-1.85
225	-1.94	-1.62
226	-1.59	-1.35
227	-1.18	-1.04
228	-0.75	-0.70
229	-0.36	-0.43
230	-0.03	-0.23
231	0.29	-0.05
232	0.57	0.12
233	0.80	0.25
234	0.98	0.36
235	1.09	0.42
236	1.13	0.44
237	1.10	0.42
238	1.00	0.36
239	0.84	0.25
240	0.62	0.12
241	0.37	-0.04
242	0.04	-0.24
243	-0.31	-0.45
244	-0.70	-0.67
245	-1.16	-1.03
246	-1.60	-1.36
247	-1.98	-1.66
248	-2.30	-1.90
249	-2.54	-2.09
250	-2.70	-2.21
251	-2.75	-2.25
252	-2.71	-2.22
253	-2.57	-2.11
254	-2.34	-1.94



255	-2.04	-1.70
256	-1.66	-1.41
257	-1.24	-1.08
258	-0.78	-0.73
259	-0.37	-0.45
260	-0.02	-0.24
261	0.31	-0.04
262	0.60	0.13
263	0.85	0.27
264	1.04	0.38
265	1.15	0.45
266	1.20	0.47
267	1.17	0.45
268	1.06	0.38
269	0.89	0.27
270	0.66	0.13
271	0.05	-0.24
272	-0.32	-0.46
273	-0.73	-0.70
274	-1.21	-1.07
275	-1.67	-1.42
276	-2.07	-1.73
277	-2.41	-1.99
278	-2.66	-2.19
279	-2.82	-2.31
280	-2.88	-2.35
281	-2.84	-2.32
282	-2.69	-2.21
283	-2.45	-2.03
284	-2.13	-1.78
285	-1.74	-1.47
286	-1.29	-1.13
287	-0.81	-0.76
288	-0.39	-0.46
289	-0.02	-0.24
290	0.33	-0.04
291	0.64	0.14
292	0.90	0.29
293	1.09	0.40
294	1.22	0.47
295	1.26	0.50
296	1.23	0.47
297	1.12	0.40
298	0.94	0.29
299	0.70	0.14
300	0.39	-0.04





301	0.73	0.15
302	0.42	-0.04
303	0.06	-0.25
304	-0.33	-0.48
305	-0.76	-0.73
306	-1.26	-1.12
307	-1.74	-1.48
308	-2.16	-1.81
309	-2.51	-2.08
310	-2.78	-2.28
311	-2.94	-2.41
312	-3.00	-2.46
313	-2.96	-2.42
314	-2.81	-2.30
315	-2.56	-2.11
316	-2.22	-1.85
317	-1.81	-1.54
318	-1.34	-1.18
319	-0.84	-0.79
320	-0.40	-0.48
321	-0.01	-0.25
322	0.35	-0.04
323	0.67	0.15
324	0.94	0.31
325	1.15	0.42
326	1.28	0.50
327	1.33	0.52
328	1.29	0.50
329	1.18	0.42
330	0.99	0.31
331	1.03	0.32
332	0.76	0.16
333	0.43	-0.04
334	0.06	-0.26
335	-0.34	-0.50
336	-0.78	-0.75
337	-1.31	-1.16
338	-1.80	-1.54
339	-2.24	-1.88
340	-2.61	-2.16
341	-2.88	-2.37
342	-3.06	-2.50
343	-3.12	-2.55
344	-3.07	-2.51
345	-2.91	-2.39
346	-2.65	-2.19



347	-2.30	-1.92
348	-1.88	-1.59
349	-1.39	-1.22
350	-0.87	-0.82
351	-0.41	-0.50
352	-0.01	-0.26
353	0.37	-0.04
354	0.70	0.16
355	0.98	0.32
356	1.19	0.44
357	1.33	0.52
358	1.38	0.54
359	1.35	0.52
360	1.23	0.44
361	1.27	0.45
362	1.06	0.33
363	0.79	0.16
364	0.45	-0.05
365	0.06	-0.27
366	-0.35	-0.52
367	-0.81	-0.78
368	-1.35	-1.20
369	-1.86	-1.59
370	-2.31	-1.94
371	-2.69	-2.23
372	-2.98	-2.45
373	-3.15	-2.58
374	-3.22	-2.63
375	-3.17	-2.60
376	-3.01	-2.47
377	-2.74	-2.26
378	-2.38	-1.99
379	-1.94	-1.65
380	-1.44	-1.26
381	-0.90	-0.85
382	-0.43	-0.52
383	-0.01	-0.27
384	0.38	-0.05
385	0.72	0.16
386	1.01	0.33
387	1.23	0.45
388	1.37	0.53
389	1.42	0.56
390	1.39	0.53
391	1.46	0.56
392	1.42	0.54



393	1.29	0.46
394	1.09	0.33
395	0.80	0.16
396	0.46	-0.05
397	0.06	-0.29
398	-0.36	-0.54
399	-0.83	-0.80
400	-1.39	-1.23
401	-1.91	-1.63
402	-2.38	-1.99
403	-2.76	-2.29
404	-3.05	-2.51
405	-3.24	-2.65
406	-3.30	-2.71
407	-3.25	-2.67
408	-3.09	-2.54
409	-2.81	-2.33
410	-2.44	-2.04
411	-1.99	-1.69
412	-1.48	-1.30
413	-0.93	-0.88
414	-0.44	-0.54
415	-0.02	-0.29
416	0.38	-0.05
417	0.74	0.16
418	1.04	0.33
419	1.26	0.46
420	1.40	0.54
421	1.10	0.32
422	0.81	0.15
423	0.46	-0.06
424	0.05	-0.30
425	-0.38	-0.56
426	-0.85	-0.82
427	-1.42	-1.26
428	-1.95	-1.67
429	-2.42	-2.03
430	-2.82	-2.34
431	-3.11	-2.56
432	-3.30	-2.71
433	-3.37	-2.76
434	-3.32	-2.72
435	-3.15	-2.59
436	-2.87	-2.37
437	-2.49	-2.08
438	-2.03	-1.73



439	-1.51	-1.33
440	-0.95	-0.90
441	-0.46	-0.56
442	-0.02	-0.30
443	0.38	-0.07
444	0.74	0.15
445	1.05	0.32
446	1.27	0.45
447	1.42	0.54
448	1.47	0.56
449	1.44	0.54
450	1.31	0.45
451	0.04	-0.32
452	-0.39	-0.58
453	-0.87	-0.84
454	-1.44	-1.28
455	-1.98	-1.70
456	-2.45	-2.06
457	-2.85	-2.37
458	-3.15	-2.60
459	-3.34	-2.74
460	-3.41	-2.80
461	-3.35	-2.76
462	-3.18	-2.62
463	-2.90	-2.41
464	-2.52	-2.11
465	-2.06	-1.76
466	-1.53	-1.35
467	-0.97	-0.92
468	-0.47	-0.58
469	-0.04	-0.32
470	0.37	-0.08
471	0.74	0.13
472	1.04	0.31
473	1.27	0.44
474	1.42	0.52
475	1.47	0.55
476	1.44	0.53
477	1.31	0.44
478	1.09	0.31
479	0.80	0.13
480	0.45	-0.08
481	0.43	-0.10
482	0.02	-0.34
483	-0.41	-0.60
484	-0.88	-0.86



485	-1.45	-1.30
486	-1.99	-1.71
487	-2.46	-2.07
488	-2.86	-2.38
489	-3.16	-2.61
490	-3.34	-2.75
491	-3.41	-2.80
492	-3.36	-2.77
493	-3.19	-2.63
494	-2.91	-2.42
495	-2.53	-2.13
496	-2.07	-1.77
497	-1.54	-1.37
498	-0.98	-0.93
499	-0.49	-0.60
500	-0.06	-0.34
501	0.35	-0.10
502	0.72	0.11
503	1.02	0.29
504	1.25	0.42
505	1.39	0.50
506	1.45	0.53
507	1.41	0.50
508	1.28	0.42
509	1.07	0.29
510	0.78	0.11
511	0.74	0.08
512	0.40	-0.13
513	-2.36e-03	-0.37
514	-0.43	-0.62
515	-0.89	-0.87
516	-1.45	-1.30
517	-1.98	-1.71
518	-2.45	-2.07
519	-2.84	-2.37
520	-3.13	-2.59
521	-3.31	-2.73
522	-3.38	-2.79
523	-3.33	-2.75
524	-3.16	-2.62
525	-2.89	-2.41
526	-2.51	-2.12
527	-2.06	-1.77
528	-1.54	-1.37
529	-0.99	-0.95
530	-0.51	-0.62

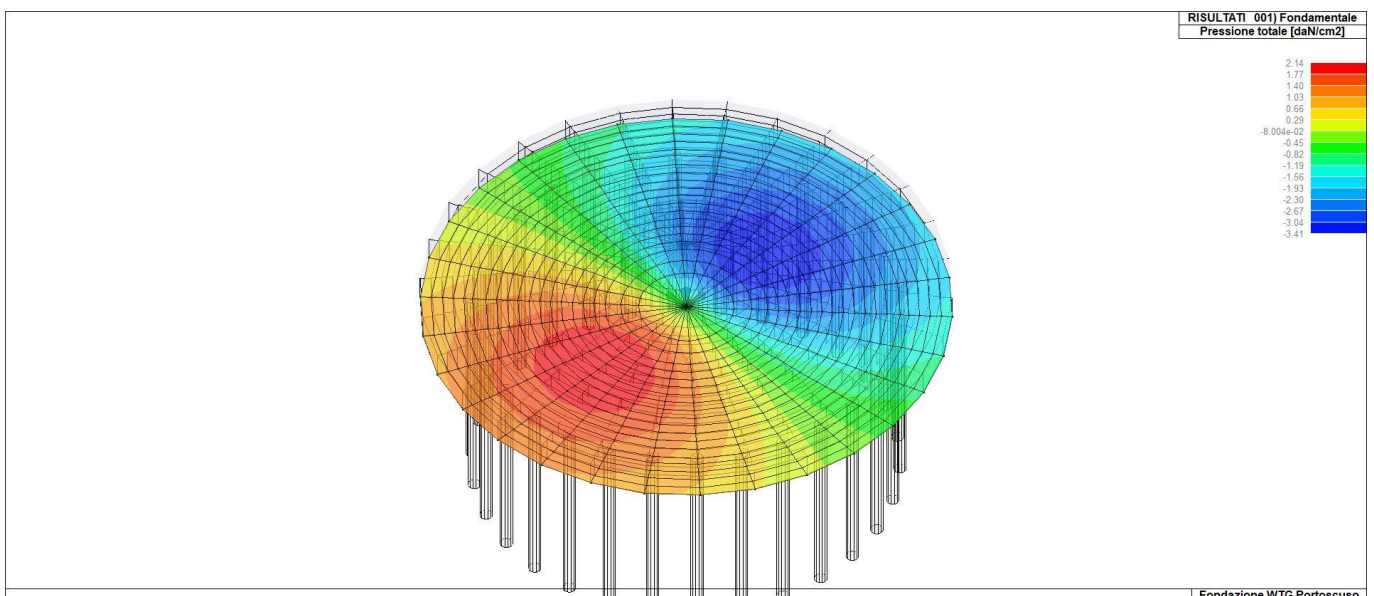


531	-0.08	-0.37
532	0.32	-0.13
533	0.68	0.08
534	0.98	0.25
535	1.20	0.38
536	1.35	0.46
537	1.40	0.49
538	1.36	0.46
539	1.24	0.38
540	1.03	0.25
541	1.29	0.41
542	1.32	0.44
543	1.27	0.41
544	1.13	0.33
545	0.91	0.21
546	0.63	0.04
547	0.28	-0.17
548	-0.11	-0.40
549	-0.53	-0.64
550	-0.99	-0.95
551	-1.53	-1.36
552	-2.03	-1.75
553	-2.47	-2.09
554	-2.83	-2.37
555	-3.10	-2.57
556	-3.26	-2.70
557	-3.31	-2.74
558	-3.25	-2.69
559	-3.07	-2.55
560	-2.78	-2.33
561	-2.41	-2.04
562	-1.95	-1.69
563	-1.44	-1.30
564	-0.90	-0.88
565	-0.45	-0.64
566	-0.04	-0.39
567	0.35	-0.16
568	0.69	0.04
569	0.97	0.21
570	1.17	0.33
571	1.01	0.23
572	0.82	0.11
573	0.57	-0.04
574	0.26	-0.23
575	-0.10	-0.44
576	-0.49	-0.67



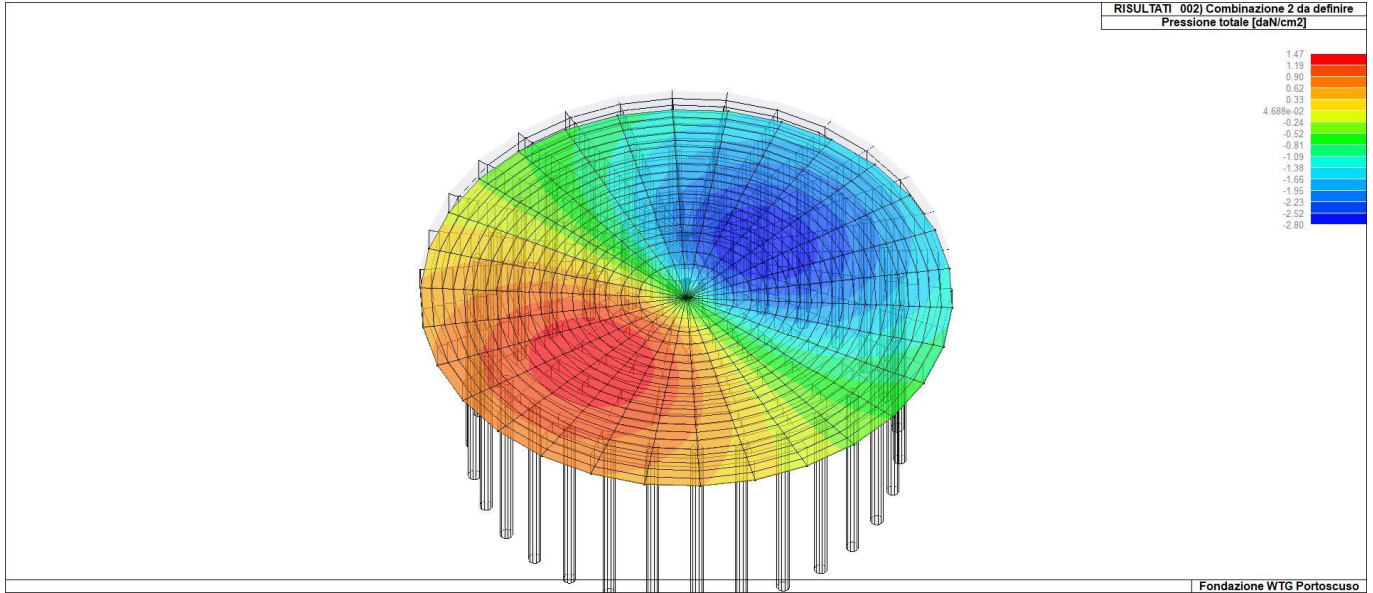
577	-0.88	-0.90
578	-1.40	-1.27
579	-1.87	-1.63
580	-2.29	-1.96
581	-2.64	-2.22
582	-2.90	-2.43
583	-3.06	-2.55
584	-3.13	-2.60
585	-3.08	-2.56
586	-2.93	-2.45
587	-2.68	-2.26
588	-2.34	-2.00
589	-1.94	-1.68
590	-1.47	-1.33
591	-0.98	-0.95
592	-0.56	-0.67
593	-0.17	-0.44
594	0.19	-0.23
595	0.51	-0.04
596	0.77	0.11
597	0.98	0.23
598	1.10	0.30
599	1.15	0.33
600	1.12	0.30
601	0.56	-0.02

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...
	-3.41			
	1.47			





46\_RIS\_PRESSIONI\_001\_Fondamentale



46\_RIS\_PRESSIONI\_002\_Combinazione 2 da definire



## 12. RISULTATI ELEMENTI TIPO SHELL

### 12.1. 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.

<p>Azione N</p>	<p>Azione N 1-2</p>
<p>Azione M</p>	<p>Azione M 1-2</p>
<p>orientamento per stampa setti</p>	<p>orientamento per stampa gusci</p>

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

<b>tensione di Von Mises</b>	(valore riassuntivo del complessivo stato di sollecitazione)	
<b>N max</b>	sforzo membranale principale massimo	
<b>N min</b>	sforzo membranale principale minimo	
<b>M max</b>	sforzo flessionale principale massimo	
<b>M min</b>	sforzo flessionale principale minimo	
<b>N1</b>	<b>N2</b>	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)
<b>N1-2</b>	<b>M1</b>	
<b>M2</b>	<b>M1-2</b>	



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  $\alpha_0$  attorno all'asse Z per i gusci e ruotata di  $\alpha_v$  attorno alla normale (che per definizione è orizzontale) al piano del setto.

Per i setti, in particolare, se  $\alpha_v$  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:

<b>N memb.</b>	Azione membranale complessiva agente sulla parete in direzione Z
<b>V memb.</b>	Azione complessiva di taglio agente nel piano del macroelemento
<b>V orto</b>	Azione complessiva di taglio agente in direzione perpendicolare al macroelemento
<b>M memb.</b>	Azione flessionale complessiva agente nel piano del macroelemento
<b>M orto</b>	Azione flessionale complessiva agente in direzione perpendicolare al macroelemento
<b>T</b>	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
1	1	31	288.61-7.26	-7.26	288.61	1.66e-02	674.51 -1.692e+05	674.38 -1.692e+05	148.23			
1	1	33	264.00-6.65	38.43	218.92	-100.85	768.36 -1.551e+05 -2.853e+04 -1.258e+05	6.089e+04				
1	1	34	236.49-5.96	78.39	152.15	-115.48	895.96 -1.386e+05 -5.365e+04 -8.404e+04	6.807e+04				
1	1	35	200.39-5.04	109.18	86.17	-102.07	1107.10 -1.167e+05 -7.211e+04 -4.346e+04	5.713e+04				
1	1	36	157.32-3.94	117.79	35.59	-69.37	1465.37 -9.036e+04 -7.522e+04 -1.368e+04	3.408e+04				
1	1	37	109.15-2.71	99.05	7.40	-32.07	2168.61 -6.097e+04 -5.966e+04	860.48	8993.43			
1	1	38	57.90-1.40	57.45	-0.95	-5.15	4141.38 -3.077e+04 -2.889e+04	2259.30	-7884.30			
1	1	39	5.79-0.22	5.33	0.24	1.60	1.435e+04 -8199.91	8164.92	-2013.28	-1.006e+04		
1	1	40	1.30-45.63	-41.72	-2.61	-12.98	4.056e+04 -2554.47	4.039e+04	-2381.49	2725.48		
1	1	41	284.45-7.14	5.55	271.76	59.49	694.59 -1.662e+05	-7407.29	-1.581e+05	-3.587e+04		



1	1	42	269.36-6.74	39.26	223.35	102.89	758.28	-1.567e+05	-2.857e+04	-1.274e+05	-6.130e+04
1	1	43	243.87-6.09	80.87	156.91	119.05	876.09	-1.410e+05	-5.422e+04	-8.590e+04	-6.914e+04
1	1	44	209.11-5.20	113.94	89.96	106.48	1067.79	-1.199e+05	-7.364e+04	-4.516e+04	-5.877e+04
1	1	45	166.56-4.13	124.69	37.75	73.45	1386.80	-9.431e+04	-7.804e+04	-1.488e+04	-3.594e+04
1	1	46	118.09-2.90	107.13	8.06	34.73	1990.77	-6.559e+04	-6.390e+04	301.84	-1.055e+04
1	1	47	65.81-1.59	65.28	-1.06	5.96	3545.71	-3.567e+04	-3.430e+04	2174.43	7203.96
1	1	48	12.09-0.32	11.65	0.13	-2.31	1.094e+04	-1.081e+04	2209.95	-2081.28	1.066e+04
1	1	49	1.13-40.94	-37.50	-2.31	11.52	3.481e+04	-3048.62	3.479e+04	-3029.89	-841.84
1	1	50	2.36-90.60	-68.17	-20.08	39.78	6.284e+04	-1451.89	5.431e+04	7080.62	-2.181e+04
1	1	51	3.46-134.80	-73.70	-57.64	68.67	8.858e+04	-847.55	5.666e+04	3.108e+04	-4.285e+04
1	1	52	4.38-171.52	-57.01	-110.13	83.84	1.102e+05	-539.26	4.411e+04	6.556e+04	-5.433e+04
1	1	53	5.07-199.07	-29.04	-164.96	76.16	1.266e+05	-364.35	2.421e+04	1.021e+05	-5.017e+04
1	1	54	5.51-216.14	-4.18	-206.45	45.31	1.371e+05	-267.85	6732.44	1.301e+05	-3.021e+04
1	1	55	5.67-222.02	5.67	-222.02	1.23e-02	1.412e+05	-229.98	-229.55	1.412e+05	-247.18
1	1	56	5.54-216.42	-4.13	-206.74	-45.31	1.387e+05	-245.11	6604.54	1.318e+05	3.007e+04
1	1	57	5.14-199.60	-29.05	-165.42	-76.36	1.297e+05	-317.45	2.440e+04	1.049e+05	5.101e+04
1	1	58	4.48-172.58	-57.28	-110.82	-84.38	1.145e+05	-466.62	4.529e+04	6.879e+04	5.629e+04
1	1	59	3.59-136.70	-74.66	-58.45	-69.68	9.391e+04	-737.79	5.939e+04	3.379e+04	4.556e+04
1	1	60	2.51-93.73	-70.45	-20.77	-41.22	6.872e+04	-1262.59	5.870e+04	8756.55	2.451e+04
1	1	61	281.68-7.09	5.49	269.10	-58.94	697.40	-1.654e+05	-7509.12	-1.572e+05	3.600e+04
1	1	91	10.44-138.77	-83.05	-45.28	-72.17	1.530e+05	-4.869e+04	1.455e+05	-4.120e+04	3.816e+04
1	1	92	8.24-96.04	-80.41	-7.39	-37.22	1.477e+05	-7.228e+04	1.454e+05	-6.999e+04	-2.234e+04
1	1	93	7.07-49.38	-49.24	6.93	-2.84	1.383e+05	-9.589e+04	1.048e+05	-6.236e+04	-8.203e+04
1	1	94	18.30-12.12	3.38	2.81	15.21	1.248e+05	-1.181e+05	3.159e+04	-2.485e+04	-1.181e+05
1	1	95	63.00-7.28	62.10	-6.39	7.88	1.078e+05	-1.377e+05	-5.383e+04	2.386e+04	-1.164e+05
1	1	96	113.53-9.26	108.81	-4.54	-23.59	8.797e+04	-1.540e+05	-1.264e+05	6.035e+04	-7.693e+04
1	1	97	161.80-11.94	129.17	20.69	-67.86	6.657e+04	-1.663e+05	-1.655e+05	6.574e+04	-1.392e+04
1	1	98	205.14-14.54	117.95	72.64	-107.48	4.497e+04	-1.746e+05	-1.628e+05	3.320e+04	4.946e+04
1	1	99	241.49-16.80	81.15	143.54	-125.32	2.482e+04	-1.792e+05	-1.252e+05	-2.919e+04	9.002e+04
1	1	100	269.17-18.54	33.91	216.73	-111.08	8006.80	-1.811e+05	-7.173e+04	-1.013e+05	9.337e+04
1	1	101	286.89-19.65	-4.96	272.20	-65.49	-3470.17	-1.813e+05	-2.616e+04	-1.586e+05	5.933e+04
1	1	102	293.82-20.09	-20.09	293.82	-0.35	-7937.24	-1.811e+05	-7957.42	-1.811e+05	1869.11
1	1	103	289.57-19.82	-5.28	275.03	65.48	-4639.10	-1.811e+05	-2.475e+04	-1.610e+05	-5.608e+04
1	1	104	274.23-18.84	34.08	221.31	112.74	5838.25	-1.808e+05	-6.948e+04	-1.054e+05	-9.155e+04
1	1	105	248.50-17.22	82.89	148.38	128.76	2.186e+04	-1.791e+05	-1.231e+05	-3.416e+04	-9.010e+04
1	1	106	213.46-15.05	122.11	76.30	111.93	4.146e+04	-1.748e+05	-1.618e+05	2.848e+04	-5.135e+04
1	1	107	170.69-12.47	135.71	22.51	71.99	6.272e+04	-1.670e+05	-1.665e+05	6.220e+04	1.089e+04
1	1	108	122.19-9.75	116.77	-4.33	26.20	8.398e+04	-1.554e+05	-1.298e+05	5.842e+04	7.392e+04
1	1	109	70.66-7.57	69.97	-6.88	-7.31	1.038e+05	-1.399e+05	-5.935e+04	2.325e+04	1.147e+05
1	1	110	22.89-10.56	9.79	2.54	-16.33	1.212e+05	-1.211e+05	2.522e+04	-2.513e+04	1.185e+05
1	1	111	7.38-44.96	-44.94	7.37	0.92	1.352e+05	-9.961e+04	9.924e+04	-6.367e+04	8.454e+04
1	1	112	8.18-92.59	-78.08	-6.33	35.38	1.453e+05	-7.648e+04	1.422e+05	-7.339e+04	2.598e+04
1	1	113	10.35-136.44	-82.09	-43.99	70.88	1.514e+05	-5.302e+04	1.452e+05	-4.682e+04	-3.506e+04
1	1	114	12.45-173.14	-60.53	-100.16	90.66	1.539e+05	-3.086e+04	1.139e+05	9113.72	-7.606e+04
1	1	115	14.10-200.77	-26.31	-160.36	83.97	1.536e+05	-1.195e+04	6.594e+04	7.569e+04	-8.262e+04
1	1	116	15.14-217.92	3.69	-206.47	50.38	1.521e+05	1361.96	2.402e+04	1.295e+05	-5.387e+04



1	1	117	15.52-223.89	15.52	-223.89	0.12	1.513e+05	6797.66	6845.78	1.512e+05	-2636.13
1	1	118	15.18-218.37	3.75	-206.94	-50.38	1.520e+05	3169.10	2.204e+04	1.331e+05	4.952e+04
1	1	119	14.14-201.59-26.28		-161.17	-84.19	1.537e+05	-8756.77	6.310e+04	8.187e+04	8.070e+04
1	1	120	12.52-174.60-60.77		-101.32	-91.34	1.546e+05	-2.683e+04	1.119e+05	1.593e+04	7.701e+04
1	2	31	234.04-5.85	-5.85	234.04	1.51e-02	605.96	-1.347e+05	605.87	-1.347e+05	113.21
1	2	33	215.11-5.39	31.33	178.39	-82.15	674.26	-1.238e+05	-2.262e+04	-1.005e+05	4.854e+04
1	2	34	193.95-4.86	64.27	124.82	-94.68	766.42	-1.111e+05	-4.277e+04	-6.757e+04	5.454e+04
1	2	35	166.18-4.15	90.51	71.52	-84.63	916.96	-9.424e+04	-5.792e+04	-3.540e+04	4.623e+04
1	2	36	133.05-3.31	99.56	30.18	-58.69	1166.48	-7.396e+04	-6.121e+04	-1.158e+04	2.820e+04
1	2	37	95.99-2.36	87.04	6.59	-28.28	1635.18	-5.128e+04	-4.996e+04	310.29	8267.81
1	2	38	56.57-1.34	56.09	-0.87	-5.24	2832.68	-2.773e+04	-2.667e+04	1774.78	-5587.12
1	2	39	16.38-0.34	16.00	5.05e-02	2.51	8542.15	-8227.24	1826.56	-1511.65	-8216.89
1	2	40	0.74-23.08	-21.23	-1.11	-6.37	2.702e+04	-2202.19	2.700e+04	-2183.06	747.40
1	2	41	230.84-5.76	4.53	220.55	48.27	620.72	-1.324e+05	-5809.46	-1.259e+05	-2.853e+04
1	2	42	219.23-5.46	31.97	181.81	83.72	667.11	-1.250e+05	-2.265e+04	-1.017e+05	-4.886e+04
1	2	43	199.62-4.96	66.19	128.48	97.43	752.36	-1.130e+05	-4.321e+04	-6.899e+04	-5.537e+04
1	2	44	172.88-4.28	94.17	74.44	88.03	889.24	-9.669e+04	-5.910e+04	-3.671e+04	-4.749e+04
1	2	45	140.16-3.45	104.87	31.84	61.82	1112.01	-7.701e+04	-6.339e+04	-1.250e+04	-2.964e+04
1	2	46	102.87-2.51	93.26	7.10	30.33	1517.33	-5.486e+04	-5.322e+04	-118.93	-9464.01
1	2	47	62.65-1.50	62.11	-0.95	5.87	2479.48	-3.161e+04	-3.084e+04	1709.66	5064.55
1	2	48	21.30-0.48	20.86	-3.63e-02	-3.06	6537.29	-1.086e+04	-2754.74	-1564.13	8676.33
1	2	49	0.61-19.47	-17.99	-0.87	5.25	2.271e+04	-2701.70	2.269e+04	-2682.28	702.27
1	2	50	1.54-57.66	-43.48	-12.64	25.27	4.395e+04	-1143.65	3.842e+04	4385.49	-1.479e+04
1	2	51	2.39-91.66	-50.17	-39.10	46.70	6.368e+04	-607.03	4.114e+04	2.194e+04	-3.068e+04
1	2	52	3.10-119.91	-39.87	-76.94	58.64	8.029e+04	-344.94	3.243e+04	4.752e+04	-3.961e+04
1	2	53	3.63-141.10	-20.57	-116.90	54.01	9.291e+04	-199.62	1.795e+04	7.476e+04	-3.689e+04
1	2	54	3.96-154.23	-2.96	-147.31	32.35	1.010e+05	-120.52	5067.35	9.578e+04	-2.230e+04
1	2	55	4.09-158.75	4.09	-158.75	9.91e-03	1.041e+05	-89.81	-89.46	1.041e+05	-190.21
1	2	56	3.99-154.44	-2.92	-147.53	-32.36	1.022e+05	-102.45	4969.11	9.708e+04	2.220e+04
1	2	57	3.68-141.51	-20.58	-117.25	-54.17	9.524e+04	-162.12	1.810e+04	7.698e+04	3.753e+04
1	2	58	3.17-120.72	-40.08	-77.46	-59.06	8.362e+04	-286.00	3.334e+04	5.000e+04	4.112e+04
1	2	59	2.49-93.12	-50.91	-39.72	-47.48	6.777e+04	-515.32	4.323e+04	2.402e+04	3.277e+04
1	2	60	1.66-60.07	-45.24	-13.17	-26.38	4.845e+04	-975.54	4.180e+04	5675.32	1.687e+04
1	2	61	228.71-5.73	4.48	218.50	-47.84	622.59	-1.317e+05	-5887.47	-1.252e+05	2.862e+04
1	2	91	7.30-94.26	-57.31	-29.65	-48.86	1.142e+05	-3.882e+04	1.092e+05	-3.389e+04	2.702e+04
1	2	92	5.78-61.56	-52.63	-3.15	-22.84	1.105e+05	-5.734e+04	1.083e+05	-5.511e+04	-1.921e+04
1	2	93	5.88-26.68	-26.59	5.79	1.75	1.036e+05	-7.585e+04	7.626e+04	-4.852e+04	-6.447e+04
1	2	94	22.99-6.48	15.02	1.49	13.09	9.355e+04	-9.325e+04	1.956e+04	-1.927e+04	-9.136e+04
1	2	95	60.52-5.91	60.19	-5.58	4.67	8.075e+04	-1.087e+05	-4.614e+04	1.820e+04	-8.908e+04
1	2	96	99.74-7.78	94.99	-3.03	-22.08	6.584e+04	-1.215e+05	-1.015e+05	4.588e+04	-5.780e+04
1	2	97	136.96-9.93	108.58	18.45	-57.99	4.971e+04	-1.313e+05	-1.309e+05	4.930e+04	-8675.19
1	2	98	170.33-11.97	97.31	61.06	-89.33	3.344e+04	-1.380e+05	-1.279e+05	2.334e+04	4.038e+04
1	2	99	198.31-13.72	66.23	118.36	-102.76	1.829e+04	-1.420e+05	-9.805e+04	-2.562e+04	7.148e+04
1	2	100	219.62-15.07	27.48	177.07	-90.42	5692.09	-1.437e+05	-5.605e+04	-8.196e+04	7.357e+04
1	2	101	233.25-15.93	-4.05	221.37	-53.10	-2878.52	-1.441e+05	-2.043e+04	-1.266e+05	4.659e+04
1	2	102	238.58-16.27	-16.27	238.58	-0.27	-6205.98	-1.441e+05	-6220.96	-1.441e+05	1437.17



1	2	103	235.31-16.06 -4.30	223.55	53.09	-3750.46	-1.440e+05	-1.934e+04	-1.284e+05	-4.409e+04
1	2	104	223.51-15.3027.61	180.59	91.69	4068.90	-1.435e+05	-5.432e+04	-8.512e+04	-7.217e+04
1	2	105	203.71-14.0567.58	122.08	105.41	1.607e+04	-1.419e+05	-9.638e+04	-2.944e+04	-7.154e+04
1	2	106	176.74-12.36100.51	63.87	92.76	3.079e+04	-1.382e+05	-1.272e+05	1.971e+04	-4.183e+04
1	2	107	143.80-10.35113.61	19.84	61.17	4.680e+04	-1.319e+05	-1.317e+05	4.658e+04	6352.17
1	2	108	106.42-8.17101.11	-2.87	24.08	6.283e+04	-1.226e+05	-1.042e+05	4.439e+04	5.549e+04
1	2	109	66.49-6.21 66.24	-5.96	-4.24	7.779e+04	-1.104e+05	-5.039e+04	1.773e+04	8.773e+04
1	2	110	27.41-6.17 19.95	1.29	-13.95	9.081e+04	-9.563e+04	1.466e+04	-1.948e+04	9.165e+04
1	2	111	6.48-23.63 -23.28	6.13	-3.23	1.013e+05	-7.877e+04	7.200e+04	-4.952e+04	6.641e+04
1	2	112	5.76-58.94 -50.84	-2.34	21.42	1.087e+05	-6.064e+04	1.058e+05	-5.773e+04	2.202e+04
1	2	113	7.24-92.48 -56.57	-28.66	47.87	1.130e+05	-4.223e+04	1.090e+05	-3.822e+04	-2.464e+04
1	2	114	8.80-120.65 -42.75	-69.10	63.37	1.145e+05	-2.478e+04	8.589e+04	3843.79	-5.628e+04
1	2	115	10.05-141.88-18.84	-113.00	59.62	1.139e+05	-9822.66	4.985e+04	5.421e+04	-6.182e+04
1	2	116	10.84-155.07 2.60	-146.83	36.03	1.124e+05	776.20	1.817e+04	9.500e+04	-4.049e+04
1	2	117	11.12-159.6611.12	-159.66	8.94e-02	1.116e+05	5127.47	5166.12	1.115e+05	-2027.69
1	2	118	10.86-155.41 2.65	-147.20	-36.03	1.123e+05	2222.34	1.665e+04	9.783e+04	3.714e+04
1	2	119	10.08-142.52-18.82	-113.62	-59.79	1.139e+05	-7282.97	4.766e+04	5.896e+04	6.033e+04
1	2	120	8.85-121.77 -42.94	-69.99	-63.89	1.150e+05	-2.160e+04	8.432e+04	9091.70	5.701e+04

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-223.89	-83.05	-223.89	-125.32		-1.813e+05	-1.665e+05	-1.811e+05	-1.181e+05	
	293.82	135.71	293.82	128.76	1.546e+05		1.455e+05	1.512e+05	1.185e+05	

Macro	Tipo	Angolo 1-X (gradi)
2	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
2	1	91	13.63-115.52-68.78		-33.10	-62.06	1.647e+05	-4.441e+04	1.526e+05	-3.233e+04	4.880e+04	
2	1	92	10.72-79.09 -66.97		-1.40	-30.69	1.540e+05	-6.692e+04	1.530e+05	-6.595e+04	-1.459e+04	
2	1	93	9.02-39.98 -39.98		9.02	-0.17	1.399e+05	-9.082e+04	1.100e+05	-6.097e+04	-7.743e+04	
2	1	94	19.97-11.20 5.77		3.00	15.52	1.227e+05	-1.148e+05	3.228e+04	-2.433e+04	-1.153e+05	
2	1	95	57.75-8.48 56.65		-7.39	8.44	1.033e+05	-1.376e+05	-5.841e+04	2.408e+04	-1.131e+05	
2	1	96	100.40-11.4596.63		-7.68	-20.19	8.240e+04	-1.582e+05	-1.351e+05	5.929e+04	-7.090e+04	
2	1	97	141.32-15.07113.04		13.21	-60.19	6.130e+04	-1.759e+05	-1.759e+05	6.123e+04	-4012.98	
2	1	98	178.15-18.51101.35		58.29	-95.95	4.122e+04	-1.903e+05	-1.719e+05	2.279e+04	6.267e+04	
2	1	99	209.14-21.4767.00		120.68	-112.14	2.351e+04	-2.011e+05	-1.305e+05	-4.715e+04	1.043e+05	
2	1	100	232.82-23.7423.61		185.47	-99.53	9498.86	-2.086e+05	-7.222e+04	-1.269e+05	1.056e+05	
2	1	101	248.05-25.19-11.92		234.78	-58.75	355.46	-2.129e+05	-2.281e+04	-1.897e+05	6.635e+04	
2	1	102	254.09-25.76-25.76		254.09	-0.37	-3108.27	-2.143e+05	-3124.23	-2.143e+05	1836.23	
2	1	103	250.59-25.39-12.30		237.49	58.67	-563.97	-2.131e+05	-2.140e+04	-1.922e+05	-6.319e+04	
2	1	104	237.62-24.1123.64		189.87	101.08	7730.32	-2.089e+05	-7.002e+04	-1.312e+05	-1.039e+05	
2	1	105	215.72-21.9868.48		125.26	115.41	2.098e+04	-2.018e+05	-1.285e+05	-5.235e+04	-1.047e+05	
2	1	106	185.85-19.12105.06		61.67	100.16	3.805e+04	-1.913e+05	-1.712e+05	1.790e+04	-6.492e+04	



2	1	107	149.34-15.72118.86	14.75	64.05	5.763e+04	-1.775e+05	-1.775e+05	5.763e+04	624.39
2	1	108	107.94-12.09103.54	-7.68	22.56	7.839e+04	-1.604e+05	-1.395e+05	5.741e+04	6.761e+04
2	1	109	64.04-8.94 63.16	-8.06	-7.96	9.907e+04	-1.405e+05	-6.501e+04	2.359e+04	1.113e+05
2	1	110	23.53-10.39 10.60	2.54	-16.47	1.186e+05	-1.183e+05	2.473e+04	-2.450e+04	1.159e+05
2	1	111	9.17-37.32 -37.28	9.14	-1.29	1.359e+05	-9.485e+04	1.034e+05	-6.229e+04	8.033e+04
2	1	112	10.50-77.42 -66.02	-0.89	29.53	1.505e+05	-7.115e+04	1.489e+05	-6.954e+04	1.880e+04
2	1	113	13.41-114.82-68.83	-32.59	61.50	1.619e+05	-4.851e+04	1.517e+05	-3.834e+04	-4.513e+04
2	1	114	16.17-146.22-48.87	-81.18	79.57	1.700e+05	-2.835e+04	1.179e+05	2.383e+04	-8.734e+04
2	1	115	18.34-169.82-17.72	-133.77	74.06	1.753e+05	-1.215e+04	6.630e+04	9.682e+04	-9.245e+04
2	1	116	19.71-184.40 9.48	-174.18	44.53	1.781e+05	-1355.74	2.129e+04	1.555e+05	-5.960e+04
2	1	117	20.21-189.3420.21	-189.34	0.16	1.791e+05	2889.27	2927.34	1.791e+05	-2589.97
2	1	118	19.78-184.36 9.64	-174.21	-44.36	1.787e+05	78.92	1.934e+04	1.594e+05	5.540e+04
2	1	119	18.45-169.70-17.41	-133.84	-73.90	1.765e+05	-9478.73	6.357e+04	1.034e+05	9.083e+04
2	1	120	16.34-146.32-48.51	-81.47	-79.65	1.720e+05	-2.477e+04	1.161e+05	3.114e+04	8.876e+04
2	1	121	18.45-47.50 -46.42	17.36	8.40	2.063e+05	-1.399e+05	1.519e+05	-8.551e+04	-1.259e+05
2	1	122	31.81-22.53 4.37	4.91	27.17	1.862e+05	-1.748e+05	4.682e+04	-3.540e+04	-1.758e+05
2	1	123	65.97-17.58 61.20	-12.81	19.38	1.594e+05	-2.045e+05	-7.517e+04	3.003e+04	-1.742e+05
2	1	124	107.13-20.42105.66	-18.95	-13.63	1.270e+05	-2.277e+05	-1.800e+05	7.933e+04	-1.210e+05
2	1	125	147.67-24.98123.21	-0.52	-60.21	9.084e+04	-2.435e+05	-2.397e+05	8.707e+04	-3.530e+04
2	1	126	184.47-29.63108.64	46.19	-102.40	5.308e+04	-2.518e+05	-2.428e+05	4.402e+04	5.176e+04
2	1	127	215.51-33.7468.24	113.53	-122.55	1.641e+04	-2.534e+05	-1.979e+05	-3.907e+04	1.090e+05
2	1	128	239.23-36.9517.66	184.62	-110.00	-1.574e+04	-2.500e+05	-1.304e+05	-1.354e+05	1.171e+05
2	1	129	254.44-39.02-23.65	239.08	-65.36	-3.895e+04	-2.449e+05	-7.193e+04	-2.119e+05	7.552e+04
2	1	130	260.42-39.83-39.83	260.42	-0.67	-4.838e+04	-2.421e+05	-4.842e+04	-2.420e+05	2774.27
2	1	131	256.80-39.33-24.42	241.89	64.75	-4.138e+04	-2.440e+05	-7.006e+04	-2.153e+05	-7.062e+04
2	1	132	243.66-37.5217.05	189.10	111.20	-2.001e+04	-2.487e+05	-1.274e+05	-1.413e+05	-1.141e+05
2	1	133	221.63-34.5469.01	118.08	125.71	1.092e+04	-2.523e+05	-1.950e+05	-4.643e+04	-1.087e+05
2	1	134	191.66-30.58111.75	49.34	106.65	4.686e+04	-2.514e+05	-2.413e+05	3.678e+04	-5.389e+04
2	1	135	155.24-25.98128.66	0.60	64.11	8.428e+04	-2.440e+05	-2.410e+05	8.123e+04	3.152e+04
2	1	136	114.34-21.34112.44	-19.45	15.92	1.204e+05	-2.295e+05	-1.845e+05	7.553e+04	1.170e+05
2	1	137	72.03-18.15 67.76	-13.88	-19.17	1.532e+05	-2.077e+05	-8.251e+04	2.799e+04	1.718e+05
2	1	138	35.46-21.83 9.35	4.29	-28.53	1.807e+05	-1.794e+05	3.828e+04	-3.696e+04	1.761e+05
2	1	139	19.31-45.25 -43.55	17.62	-10.32	2.018e+05	-1.457e+05	1.445e+05	-8.836e+04	1.290e+05
2	1	140	18.70-81.78 -74.45	11.36	26.14	2.157e+05	-1.082e+05	2.083e+05	-1.008e+05	4.843e+04
2	1	141	21.79-117.91-75.68	-20.43	64.16	2.220e+05	-6.896e+04	2.175e+05	-6.446e+04	-3.591e+04
2	1	142	25.27-148.80-51.06	-72.47	86.37	2.214e+05	-3.035e+04	1.797e+05	1.137e+04	-9.362e+04
2	1	143	28.15-172.22-13.98	-130.09	81.65	2.156e+05	4286.54	1.184e+05	1.014e+05	-1.053e+05
2	1	144	30.00-186.7718.08	-174.85	49.42	2.078e+05	3.028e+04	6.402e+04	1.741e+05	-6.967e+04
2	1	145	30.67-191.7530.67	-191.75	0.19	2.037e+05	4.149e+04	4.158e+04	2.036e+05	-3915.75
2	1	146	30.05-186.8818.22	-175.05	-49.27	2.067e+05	3.392e+04	6.132e+04	1.793e+05	6.313e+04
2	1	147	28.21-172.45-13.70	-130.53	-81.57	2.145e+05	1.031e+04	1.145e+05	1.103e+05	1.021e+05
2	1	148	25.36-149.38-50.77	-73.24	-86.65	2.214e+05	-2.321e+04	1.769e+05	2.130e+04	9.438e+04
2	1	149	21.88-119.07-75.75	-21.44	-65.03	2.235e+05	-6.162e+04	2.179e+05	-5.600e+04	3.965e+04
2	1	150	18.64-83.70 -75.54	10.48	-27.72	2.187e+05	-1.014e+05	2.126e+05	-9.527e+04	-4.387e+04
2	2	91	9.62-77.16 -46.82	-20.72	-41.38	1.223e+05	-3.541e+04	1.143e+05	-2.736e+04	3.471e+04
2	2	92	7.61-49.36 -42.90	1.14	-18.07	1.146e+05	-5.322e+04	1.135e+05	-5.210e+04	-1.369e+04



2	2	93	7.66-20.64	-20.17	7.18	3.63	1.043e+05	-7.212e+04	7.953e+04	-4.739e+04	-6.123e+04
2	2	94	23.94-6.36	16.11	1.47	13.27	9.157e+04	-9.104e+04	1.925e+04	-1.872e+04	-8.931e+04
2	2	95	55.68-6.95	55.25	-6.52	5.16	7.708e+04	-1.091e+05	-5.051e+04	1.852e+04	-8.644e+04
2	2	96	88.85-9.60	84.92	-5.66	-19.29	6.151e+04	-1.254e+05	-1.090e+05	4.512e+04	-5.286e+04
2	2	97	120.43-12.48	95.56	12.39	-51.84	4.573e+04	-1.395e+05	-1.395e+05	4.573e+04	-619.55
2	2	98	148.81-15.18	84.04	49.59	-80.16	3.072e+04	-1.510e+05	-1.353e+05	1.503e+04	5.104e+04
2	2	99	172.67-17.47	54.97	100.22	-92.34	1.750e+04	-1.597e+05	-1.023e+05	-3.994e+04	8.295e+04
2	2	100	190.89-19.23	19.30	152.37	-81.31	7051.22	-1.658e+05	-5.644e+04	-1.023e+05	8.332e+04
2	2	101	202.62-20.35	-9.59	191.86	-47.79	242.18	-1.693e+05	-1.773e+04	-1.513e+05	5.220e+04
2	2	102	207.27-20.79	-20.79	207.26	-0.29	-2335.05	-1.705e+05	-2346.90	-1.705e+05	1411.77
2	2	103	204.57-20.51	-9.88	193.94	47.74	-442.70	-1.695e+05	-1.665e+04	-1.533e+05	-4.977e+04
2	2	104	194.59-19.51	19.32	155.75	82.50	5732.04	-1.661e+05	-5.475e+04	-1.056e+05	-8.206e+04
2	2	105	177.73-17.87	56.12	103.74	94.86	1.561e+04	-1.603e+05	-1.007e+05	-4.394e+04	-8.323e+04
2	2	106	154.74-15.65	86.90	52.18	83.41	2.835e+04	-1.519e+05	-1.348e+05	1.128e+04	-5.277e+04
2	2	107	126.62-13.00	100.05	13.57	54.80	4.298e+04	-1.408e+05	-1.408e+05	4.296e+04	-1986.80
2	2	108	94.68-10.11	90.24	-5.67	21.11	5.850e+04	-1.272e+05	-1.124e+05	4.367e+04	5.033e+04
2	2	109	60.59-7.38	60.25	-7.04	-4.80	7.394e+04	-1.114e+05	-5.559e+04	1.814e+04	8.501e+04
2	2	110	27.31-6.37	19.83	1.12	-14.00	8.845e+04	-9.386e+04	1.344e+04	-1.885e+04	8.971e+04
2	2	111	8.13-18.95	-18.09	7.27	-4.75	1.013e+05	-7.531e+04	7.441e+04	-4.840e+04	6.347e+04
2	2	112	7.48-48.12	-42.17	1.53	17.18	1.120e+05	-5.658e+04	1.103e+05	-5.486e+04	1.693e+04
2	2	113	9.46-76.64	-46.86	-20.32	40.95	1.203e+05	-3.866e+04	1.136e+05	-3.199e+04	-3.188e+04
2	2	114	11.51-100.71	-34.15	-55.05	55.13	1.261e+05	-2.266e+04	8.874e+04	1.466e+04	-6.447e+04
2	2	115	13.15-118.84	-12.49	-93.20	52.22	1.296e+05	-9753.31	5.011e+04	6.978e+04	-6.900e+04
2	2	116	14.19-130.04	6.87	-122.72	31.66	1.315e+05	-1125.92	1.619e+04	1.142e+05	-4.468e+04
2	2	117	14.57-133.84	14.57	-133.84	0.12	1.322e+05	2277.60	2308.16	1.321e+05	-1992.13
2	2	118	14.24-130.00	6.99	-122.75	-31.52	1.319e+05	24.58	1.469e+04	1.172e+05	4.146e+04
2	2	119	13.23-118.74	-12.25	-93.26	-52.09	1.305e+05	-7621.35	4.802e+04	7.488e+04	6.775e+04
2	2	120	11.64-100.79	-33.87	-55.28	-55.19	1.275e+05	-1.981e+04	8.742e+04	2.028e+04	6.557e+04
2	2	121	15.84-27.38	-24.61	13.06	10.60	1.549e+05	-1.108e+05	1.112e+05	-6.713e+04	-9.842e+04
2	2	122	32.31-14.37	15.65	2.30	22.36	1.397e+05	-1.379e+05	2.995e+04	-2.813e+04	-1.358e+05
2	2	123	61.83-13.81	59.36	-11.34	13.45	1.194e+05	-1.611e+05	-6.389e+04	2.220e+04	-1.334e+05
2	2	124	94.33-16.83	92.37	-14.87	-14.63	9.474e+04	-1.791e+05	-1.441e+05	5.967e+04	-9.151e+04
2	2	125	125.79-20.61	103.70	1.49	-52.41	6.723e+04	-1.916e+05	-1.892e+05	6.482e+04	-2.487e+04
2	2	126	154.22-24.31	89.71	40.20	-85.77	3.852e+04	-1.984e+05	-1.905e+05	3.066e+04	4.244e+04
2	2	127	178.16-27.54	55.71	94.91	-100.96	1.071e+04	-2.000e+05	-1.549e+05	-3.436e+04	8.639e+04
2	2	128	196.44-30.04	14.27	152.13	-89.85	-1.358e+04	-1.978e+05	-1.020e+05	-1.094e+05	9.205e+04
2	2	129	208.16-31.64	-19.22	195.74	-53.14	-3.101e+04	-1.943e+05	-5.640e+04	-1.689e+05	5.916e+04
2	2	130	212.76-32.27	-32.27	212.76	-0.51	-3.806e+04	-1.923e+05	-3.809e+04	-1.923e+05	2133.30
2	2	131	209.98-31.88	-19.81	197.91	52.67	-3.283e+04	-1.936e+05	-5.496e+04	-1.715e+05	-5.540e+04
2	2	132	199.86-30.48	13.81	155.57	90.77	-1.679e+04	-1.969e+05	-9.970e+04	-1.140e+05	-8.977e+04
2	2	133	182.88-28.16	56.31	98.41	103.40	6549.71	-1.992e+05	-1.527e+05	-4.002e+04	-8.610e+04
2	2	134	159.77-25.05	92.10	42.62	89.04	3.379e+04	-1.981e+05	-1.894e+05	2.509e+04	-4.408e+04
2	2	135	131.64-21.40	107.89	2.35	55.41	6.223e+04	-1.921e+05	-1.902e+05	6.032e+04	2.196e+04
2	2	136	99.92-17.58	97.59	-15.25	16.38	8.974e+04	-1.806e+05	-1.476e+05	5.675e+04	8.848e+04
2	2	137	66.65-14.40	64.41	-12.16	-13.28	1.146e+05	-1.635e+05	-6.954e+04	2.063e+04	1.316e+05
2	2	138	35.67-14.38	19.48	1.82	-23.41	1.356e+05	-1.415e+05	2.338e+04	-2.933e+04	1.360e+05



2	2	139	16.97-26.11 -22.40	13.26	-12.08	1.515e+05	-1.153e+05	1.055e+05	-6.932e+04	1.008e+05
2	2	140	13.78-51.50 -48.34	10.63	14.01	1.619e+05	-8.620e+04	1.554e+05	-7.973e+04	3.954e+04
2	2	141	15.49-78.62 -52.08	-11.05	42.35	1.664e+05	-5.564e+04	1.636e+05	-5.279e+04	-2.499e+04
2	2	142	17.94-102.16-36.05	-48.17	59.75	1.656e+05	-2.554e+04	1.356e+05	4448.17	-6.950e+04
2	2	143	20.07-120.08-10.06	-89.96	57.57	1.605e+05	1603.66	8.939e+04	7.275e+04	-7.903e+04
2	2	144	21.46-131.2412.88	-122.66	35.15	1.541e+05	2.213e+04	4.818e+04	1.280e+05	-5.251e+04
2	2	145	21.95-135.0621.95	-135.06	0.14	1.505e+05	3.107e+04	3.114e+04	1.505e+05	-3011.91
2	2	146	21.49-131.3212.99	-122.82	-35.04	1.531e+05	2.503e+04	4.610e+04	1.321e+05	4.748e+04
2	2	147	20.11-120.26 -9.85	-90.29	-57.52	1.596e+05	6354.52	8.639e+04	7.957e+04	7.655e+04
2	2	148	18.01-102.60-35.83	-48.76	-59.95	1.654e+05	-1.994e+04	1.334e+05	1.209e+04	7.008e+04
2	2	149	15.53-79.49 -52.13	-11.82	-43.02	1.675e+05	-4.992e+04	1.638e+05	-4.628e+04	2.787e+04
2	2	150	13.64-52.87 -49.18	9.95	-15.23	1.642e+05	-8.087e+04	1.587e+05	-7.545e+04	-3.603e+04

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-191.75	-75.75	-191.75	-122.55		-2.534e+05	-2.428e+05	-2.420e+05	-1.758e+05	
	260.42	128.66	260.42	125.71	2.235e+05		2.179e+05	2.036e+05	1.761e+05	

Macro	Tipo	Angolo 1-X (gradi)
3	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
3	1	121	22.20-35.70	-32.98	19.48	12.26	2.144e+05	-1.386e+05	1.629e+05	-8.707e+04	-1.246e+05	
3	1	122	33.83-20.86	7.86	5.10	27.31	1.899e+05	-1.767e+05	4.921e+04	-3.598e+04	-1.783e+05	
3	1	123	58.77-18.93	53.25	-13.41	19.96	1.595e+05	-2.106e+05	-8.273e+04	3.162e+04	-1.760e+05	
3	1	124	88.66-22.51	88.00	-21.86	-8.51	1.247e+05	-2.390e+05	-1.956e+05	8.138e+04	-1.178e+05	
3	1	125	118.45-27.55	100.22	-9.32	-48.26	8.738e+04	-2.607e+05	-2.590e+05	8.562e+04	-2.469e+04	
3	1	126	145.73-32.62	85.74	27.38	-84.27	4.986e+04	-2.757e+05	-2.602e+05	3.442e+04	6.920e+04	
3	1	127	168.91-37.08	49.92	81.91	-101.75	1.489e+04	-2.842e+05	-2.091e+05	-6.018e+04	1.297e+05	
3	1	128	186.76-40.56	5.99	140.21	-91.73	-1.437e+04	-2.876e+05	-1.335e+05	-1.685e+05	1.355e+05	
3	1	129	198.31-42.80	-29.68	185.20	-54.69	-3.445e+04	-2.881e+05	-6.842e+04	-2.541e+05	8.638e+04	
3	1	130	202.98-43.67	-43.67	202.98	-0.70	-4.230e+04	-2.877e+05	-4.233e+04	-2.877e+05	2832.50	
3	1	131	200.45-43.11	-30.49	187.82	54.00	-3.650e+04	-2.877e+05	-6.648e+04	-2.578e+05	-8.144e+04	
3	1	132	190.76-41.14	5.25	144.37	92.77	-1.815e+04	-2.872e+05	-1.305e+05	-1.749e+05	-1.327e+05	
3	1	133	174.34-37.90	50.39	86.05	104.61	9770.91	-2.840e+05	-2.063e+05	-6.801e+04	-1.296e+05	
3	1	134	151.95-33.59	88.26	30.10	88.10	4.382e+04	-2.762e+05	-2.591e+05	2.679e+04	-7.183e+04	
3	1	135	124.72-28.59	104.68	-8.56	51.67	8.078e+04	-2.622e+05	-2.610e+05	7.956e+04	2.034e+04	
3	1	136	94.23-23.51	93.31	-22.59	10.37	1.179e+05	-2.416e+05	-2.013e+05	7.759e+04	1.134e+05	
3	1	137	62.97-19.73	57.85	-14.62	-19.92	1.528e+05	-2.146e+05	-9.155e+04	2.972e+04	1.734e+05	
3	1	138	36.07-21.16	10.58	4.33	-28.44	1.836e+05	-1.820e+05	3.905e+04	-3.740e+04	1.788e+05	
3	1	139	22.69-35.68	-32.37	19.38	-13.49	2.089e+05	-1.450e+05	1.539e+05	-8.998e+04	1.283e+05	
3	1	140	21.67-60.87	-57.13	17.92	17.18	2.277e+05	-1.055e+05	2.225e+05	-1.003e+05	4.144e+04	
3	1	141	24.68-87.19	-57.20	-5.31	49.56	2.397e+05	-6.556e+04	2.315e+05	-5.744e+04	-4.913e+04	
3	1	142	28.28-110.11	-35.74	-46.09	69.00	2.451e+05	-2.785e+04	1.892e+05	2.810e+04	-1.102e+05	





3	1	143	31.32-127.54 -4.00	-92.23	66.06	2.456e+05	4406.41	1.214e+05	1.286e+05	-1.205e+05
3	1	144	33.29-138.2823.30	-128.29	40.18	2.435e+05	2.726e+04	6.136e+04	2.094e+05	-7.881e+04
3	1	145	34.01-141.7534.00	-141.75	0.22	2.421e+05	3.663e+04	3.671e+04	2.421e+05	-3986.03
3	1	146	33.37-137.7123.51	-127.86	-39.87	2.434e+05	3.035e+04	5.860e+04	2.151e+05	7.225e+04
3	1	147	31.43-126.44 -3.43	-91.59	-65.48	2.459e+05	9854.79	1.175e+05	1.383e+05	1.176e+05
3	1	148	28.45-108.80-34.71	-45.65	-68.41	2.466e+05	-2.100e+04	1.867e+05	3.890e+04	1.115e+05
3	1	149	24.87-86.08 -55.93	-5.27	-49.35	2.425e+05	-5.818e+04	2.326e+05	-4.828e+04	5.367e+04
3	1	150	21.77-60.34 -56.31	17.74	-17.75	2.320e+05	-9.831e+04	2.280e+05	-9.432e+04	-3.608e+04
3	1	151	34.29-46.72 -40.91	28.48	20.91	2.753e+05	-1.677e+05	2.019e+05	-9.436e+04	-1.647e+05
3	1	152	46.20-33.18 6.19	6.84	39.69	2.417e+05	-2.215e+05	6.194e+04	-4.176e+04	-2.258e+05
3	1	153	69.90-30.98 58.94	-20.02	31.39	1.984e+05	-2.680e+05	-9.891e+04	2.927e+04	-2.242e+05
3	1	154	99.25-34.99 99.20	-34.94	-2.55	1.472e+05	-3.051e+05	-2.390e+05	8.112e+04	-1.598e+05
3	1	155	129.23-41.18112.72	-24.66	-50.41	9.093e+04	-3.313e+05	-3.239e+05	8.349e+04	-5.556e+04
3	1	156	156.97-47.6394.48	14.87	-94.24	3.250e+04	-3.462e+05	-3.392e+05	2.549e+04	5.102e+04
3	1	157	180.64-53.4250.92	76.29	-116.34	-2.435e+04	-3.502e+05	-2.948e+05	-7.967e+04	1.223e+05
3	1	158	198.86-57.99 -2.16	143.02	-105.94	-7.490e+04	-3.454e+05	-2.208e+05	-1.995e+05	1.348e+05
3	1	159	210.59-60.93-45.14	194.80	-63.54	-1.125e+05	-3.365e+05	-1.550e+05	-2.940e+05	8.784e+04
3	1	160	215.27-62.10-62.09	215.27	-0.98	-1.283e+05	-3.313e+05	-1.283e+05	-3.312e+05	3515.01
3	1	161	212.56-61.39-46.44	197.60	62.23	-1.165e+05	-3.350e+05	-1.530e+05	-2.985e+05	-8.153e+04
3	1	162	202.49-58.79 -3.61	147.31	106.65	-8.163e+04	-3.435e+05	-2.177e+05	-2.074e+05	-1.308e+05
3	1	163	185.62-54.5850.61	80.42	119.17	-3.277e+04	-3.489e+05	-2.920e+05	-8.965e+04	-1.214e+05
3	1	164	162.73-49.0296.39	17.32	98.21	2.307e+04	-3.461e+05	-3.383e+05	1.524e+04	-5.320e+04
3	1	165	135.12-42.66116.87	-24.41	53.96	8.101e+04	-3.328e+05	-3.264e+05	7.455e+04	5.129e+04
3	1	166	104.65-36.43104.52	-36.30	4.37	1.373e+05	-3.084e+05	-2.455e+05	7.440e+04	1.552e+05
3	1	167	74.20-32.17 63.76	-21.73	-31.65	1.889e+05	-2.734e+05	-1.090e+05	2.452e+04	2.213e+05
3	1	168	48.89-33.82 9.20	5.86	-41.32	2.332e+05	-2.289e+05	5.024e+04	-4.592e+04	2.260e+05
3	1	169	35.39-46.85 -40.01	28.54	-22.72	2.683e+05	-1.768e+05	1.914e+05	-9.999e+04	1.682e+05
3	1	170	33.25-69.63 -67.45	31.07	14.81	2.926e+05	-1.196e+05	2.805e+05	-1.075e+05	6.956e+04
3	1	171	36.22-94.73 -65.54	7.04	54.49	3.056e+05	-5.996e+04	3.025e+05	-5.678e+04	-3.395e+04
3	1	172	40.38-117.23-38.20	-38.64	78.80	3.075e+05	-1382.51	2.657e+05	4.040e+04	-1.056e+05
3	1	173	44.09-134.61 0.99	-91.51	76.45	3.001e+05	5.179e+04	1.985e+05	1.533e+05	-1.221e+05
3	1	174	46.54-145.4434.38	-133.29	46.76	2.880e+05	9.294e+04	1.371e+05	2.438e+05	-8.163e+04
3	1	175	47.42-149.0147.42	-149.01	0.20	2.806e+05	1.114e+05	1.116e+05	2.805e+05	-4970.59
3	1	176	46.59-145.0934.55	-133.05	-46.51	2.861e+05	9.881e+04	1.342e+05	2.507e+05	7.329e+04
3	1	177	44.14-133.96 1.46	-91.29	-76.02	2.985e+05	6.110e+04	1.945e+05	1.651e+05	1.178e+05
3	1	178	40.44-116.51-37.33	-38.73	-78.47	3.078e+05	9436.96	2.633e+05	5.389e+04	1.062e+05
3	1	179	36.20-94.17 -64.48	6.50	-54.67	3.082e+05	-4.887e+04	3.041e+05	-4.473e+04	3.820e+04
3	1	180	32.98-69.41 -66.88	30.45	-15.89	2.976e+05	-1.091e+05	2.872e+05	-9.870e+04	-6.427e+04
3	2	121	19.56-20.33 -15.28	14.51	13.26	1.605e+05	-1.101e+05	1.186e+05	-6.825e+04	-9.780e+04
3	2	122	33.37-13.78 17.24	2.35	22.36	1.421e+05	-1.398e+05	3.065e+04	-2.838e+04	-1.378e+05
3	2	123	55.08-14.82 52.15	-11.89	14.00	1.191e+05	-1.664e+05	-7.084e+04	2.362e+04	-1.347e+05
3	2	124	78.90-18.40 77.78	-17.28	-10.38	9.279e+04	-1.886e+05	-1.571e+05	6.133e+04	-8.866e+04
3	2	125	102.14-22.6085.17	-5.62	-42.77	6.453e+04	-2.058e+05	-2.048e+05	6.357e+04	-1.611e+04
3	2	126	123.28-26.6571.44	25.19	-71.31	3.615e+04	-2.178e+05	-2.045e+05	2.287e+04	5.653e+04
3	2	127	141.19-30.1741.19	69.84	-84.47	9749.17	-2.248e+05	-1.638e+05	-5.128e+04	1.029e+05
3	2	128	154.96-32.89 5.04	117.03	-75.41	-1.226e+04	-2.280e+05	-1.044e+05	-1.358e+05	1.067e+05



3	2	129	163.88-34.63-23.99	153.23	-44.72	-2.731e+04	-2.287e+05	-5.355e+04	-2.024e+05	6.780e+04
3	2	130	167.47-35.31-35.31	167.47	-0.54	-3.317e+04	-2.286e+05	-3.320e+04	-2.286e+05	2177.99
3	2	131	165.52-34.88-24.61	155.25	44.19	-2.884e+04	-2.285e+05	-5.206e+04	-2.053e+05	-6.399e+04
3	2	132	158.05-33.34 4.48	120.23	76.21	-1.510e+04	-2.277e+05	-1.021e+05	-1.407e+05	-1.045e+05
3	2	133	145.38-30.81 41.56	73.02	86.68	5890.64	-2.248e+05	-1.616e+05	-5.729e+04	-1.029e+05
3	2	134	128.08-27.42 73.38	27.28	74.26	3.158e+04	-2.182e+05	-2.036e+05	1.700e+04	-5.856e+04
3	2	135	107.00-23.44 88.60	-5.04	45.40	5.952e+04	-2.070e+05	-2.064e+05	5.891e+04	1.277e+04
3	2	136	83.25-19.23 81.87	-17.85	11.82	8.761e+04	-1.907e+05	-1.615e+05	5.841e+04	8.528e+04
3	2	137	58.43-15.56 55.69	-12.82	-13.97	1.140e+05	-1.695e+05	-7.763e+04	2.215e+04	1.327e+05
3	2	138	35.39-14.30 19.33	1.75	-23.24	1.373e+05	-1.440e+05	2.283e+04	-2.948e+04	1.382e+05
3	2	139	20.21-20.59 -14.81	14.44	-14.22	1.564e+05	-1.151e+05	1.117e+05	-7.048e+04	1.006e+05
3	2	140	16.43-36.97 -35.87	15.33	7.56	1.704e+05	-8.426e+04	1.655e+05	-7.942e+04	3.476e+04
3	2	141	17.80-56.27 -38.51	4.02e-02	31.63	1.790e+05	-5.304e+04	1.738e+05	-4.779e+04	-3.449e+04
3	2	142	20.24-73.57 -24.70	-28.63	46.87	1.827e+05	-2.347e+04	1.426e+05	1.664e+04	-8.161e+04
3	2	143	22.45-86.85 -2.64	-61.77	45.96	1.824e+05	1942.47	9.163e+04	9.275e+04	-9.024e+04
3	2	144	23.91-95.05 16.77	-87.91	28.26	1.803e+05	2.006e+04	4.628e+04	1.541e+05	-5.927e+04
3	2	145	24.44-97.70 24.44	-97.70	0.17	1.790e+05	2.754e+04	2.760e+04	1.789e+05	-3065.78
3	2	146	23.96-94.61 16.93	-87.58	-28.01	1.801e+05	2.253e+04	4.416e+04	1.585e+05	5.423e+04
3	2	147	22.53-86.00 -2.19	-61.28	-45.52	1.826e+05	6257.98	8.864e+04	1.002e+05	8.796e+04
3	2	148	20.37-72.56 -23.91	-28.29	-46.41	1.837e+05	-1.808e+04	1.407e+05	2.494e+04	8.264e+04
3	2	149	17.93-55.39 -37.53	7.08e-02	-31.47	1.811e+05	-4.724e+04	1.746e+05	-4.074e+04	3.798e+04
3	2	150	16.43-36.48 -35.24	15.19	-8.00	1.735e+05	-7.862e+04	1.698e+05	-7.484e+04	-3.063e+04
3	2	151	29.07-29.10 -20.72	20.69	20.43	2.063e+05	-1.338e+05	1.478e+05	-7.532e+04	-1.284e+05
3	2	152	42.59-23.04 16.76	2.79	32.07	1.808e+05	-1.755e+05	3.966e+04	-3.436e+04	-1.743e+05
3	2	153	63.61-24.14 57.34	-17.86	22.61	1.477e+05	-2.115e+05	-8.407e+04	2.027e+04	-1.719e+05
3	2	154	87.40-28.44 87.06	-28.09	-6.31	1.086e+05	-2.403e+05	-1.913e+05	5.967e+04	-1.212e+05
3	2	155	111.00-33.74 95.17	-17.90	-45.18	6.561e+04	-2.607e+05	-2.557e+05	6.058e+04	-4.019e+04
3	2	156	132.62-38.97 78.21	15.43	-79.85	2.099e+04	-2.725e+05	-2.663e+05	1.480e+04	4.217e+04
3	2	157	150.97-43.58 41.65	65.74	-96.52	-2.232e+04	-2.760e+05	-2.310e+05	-6.731e+04	9.689e+04
3	2	158	165.07-47.18 -1.84	119.73	-86.99	-6.069e+04	-2.728e+05	-1.730e+05	-1.605e+05	1.059e+05
3	2	159	174.14-49.48-36.71	161.37	-51.89	-8.903e+04	-2.666e+05	-1.217e+05	-2.340e+05	6.877e+04
3	2	160	177.75-50.39-50.39	177.75	-0.75	-1.008e+05	-2.629e+05	-1.009e+05	-2.628e+05	2702.29
3	2	161	175.66-49.84-37.71	163.53	50.88	-9.202e+04	-2.655e+05	-1.201e+05	-2.374e+05	-6.391e+04
3	2	162	167.87-47.81 -2.96	123.02	87.53	-6.578e+04	-2.714e+05	-1.706e+05	-1.666e+05	-1.028e+05
3	2	163	154.82-44.49 41.41	68.91	98.70	-2.873e+04	-2.751e+05	-2.288e+05	-7.499e+04	-9.620e+04
3	2	164	137.08-40.07 79.69	17.32	82.90	1.380e+04	-2.725e+05	-2.656e+05	6917.08	-4.384e+04
3	2	165	115.59-34.93 98.37	-17.71	47.91	5.802e+04	-2.620e+05	-2.576e+05	5.370e+04	3.691e+04
3	2	166	91.64-29.63 91.15	-29.14	7.71	1.010e+05	-2.429e+05	-1.964e+05	5.449e+04	1.176e+05
3	2	167	67.08-25.21 61.04	-19.18	-22.81	1.404e+05	-2.157e+05	-9.185e+04	1.662e+04	1.696e+05
3	2	168	44.96-23.84 19.08	2.04	-33.32	1.743e+05	-1.812e+05	3.065e+04	-3.756e+04	1.744e+05
3	2	169	30.22-29.51 -20.03	20.74	-21.82	2.010e+05	-1.409e+05	1.397e+05	-7.965e+04	1.311e+05
3	2	170	25.33-43.78 -43.42	24.97	4.99	2.195e+05	-9.659e+04	2.092e+05	-8.632e+04	5.606e+04
3	2	171	26.21-61.69 -44.88	9.41	34.57	2.292e+05	-5.042e+04	2.272e+05	-4.848e+04	-2.319e+04
3	2	172	28.84-78.42 -26.91	-22.67	53.59	2.302e+05	-4959.63	2.002e+05	2.506e+04	-7.847e+04
3	2	173	31.43-91.53 0.58	-60.68	53.31	2.240e+05	3.648e+04	1.496e+05	1.109e+05	-9.172e+04
3	2	174	33.21-99.75 24.46	-91.01	32.96	2.140e+05	6.883e+04	1.030e+05	1.797e+05	-6.160e+04



3	2	175	33.85-102.46	33.85	-102.46	0.15	2.078e+05	8.354e+04	8.366e+04	2.077e+05	-3823.19
3	2	176	33.25-99.48	24.59	-90.82	-32.76	2.123e+05	7.349e+04	1.008e+05	1.850e+05	5.518e+04
3	2	177	31.47-91.03	0.94	-60.51	-52.98	2.226e+05	4.378e+04	1.464e+05	1.199e+05	8.842e+04
3	2	178	28.87-77.85	-26.24	-22.75	-53.33	2.303e+05	3469.29	1.983e+05	3.544e+04	7.892e+04
3	2	179	26.15-61.21	-44.06	8.99	-34.70	2.311e+05	-4.181e+04	2.285e+05	-3.922e+04	2.646e+04
3	2	180	24.99-43.48	-42.98	24.49	-5.82	2.232e+05	-8.850e+04	2.143e+05	-7.957e+04	-5.199e+04

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-149.01	-67.45	-149.01	-116.34		-3.502e+05	-3.392e+05	-3.312e+05	-2.258e+05	
	215.27	116.87	215.27	119.17	3.082e+05		3.041e+05	2.805e+05	2.260e+05	

Macro	Tipo	Angolo 1-X (gradi)
4	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
4	1	151	36.77-32.76	-24.17	28.17	22.89	2.848e+05	-1.679e+05	2.141e+05	-9.724e+04	-1.643e+05	
4	1	152	45.37-27.83	10.86	6.69	36.54	2.471e+05	-2.250e+05	6.488e+04	-4.275e+04	-2.298e+05	
4	1	153	60.18-29.03	49.57	-18.42	28.88	2.003e+05	-2.756e+05	-1.069e+05	3.157e+04	-2.277e+05	
4	1	154	78.16-33.73	78.14	-33.71	1.29	1.465e+05	-3.175e+05	-2.558e+05	8.481e+04	-1.576e+05	
4	1	155	96.72-39.76	85.80	-28.84	-37.02	8.871e+04	-3.492e+05	-3.446e+05	8.405e+04	-4.493e+04	
4	1	156	114.13-45.85	68.88	-0.61	-72.05	3.009e+04	-3.701e+05	-3.577e+05	1.765e+04	6.947e+04	
4	1	157	129.18-51.26	32.56	45.36	-89.99	-2.537e+04	-3.806e+05	-3.062e+05	-9.981e+04	1.446e+05	
4	1	158	140.93-55.52	-10.74	96.15	-82.41	-7.286e+04	-3.827e+05	-2.230e+05	-2.326e+05	1.548e+05	
4	1	159	148.62-58.25	-45.56	135.93	-49.65	-1.065e+05	-3.802e+05	-1.496e+05	-3.371e+05	9.973e+04	
4	1	160	151.83-59.34	-59.33	151.82	-0.94	-1.200e+05	-3.781e+05	-1.200e+05	-3.781e+05	3602.69	
4	1	161	150.30-58.67	-46.80	138.42	48.38	-1.099e+05	-3.794e+05	-1.475e+05	-3.418e+05	-9.332e+04	
4	1	162	144.03-56.26	-12.17	99.94	82.98	-7.903e+04	-3.817e+05	-2.197e+05	-2.410e+05	-1.509e+05	
4	1	163	133.35-52.33	32.10	48.93	92.46	-3.344e+04	-3.802e+05	-3.033e+05	-1.103e+05	-1.440e+05	
4	1	164	118.78-47.13	70.30	1.34	75.45	2.078e+04	-3.708e+05	-3.570e+05	6989.00	-7.218e+04	
4	1	165	101.19-41.17	88.96	-28.94	39.90	7.868e+04	-3.515e+05	-3.478e+05	7.492e+04	4.005e+04	
4	1	166	81.86-35.21	81.86	-35.21	-4.20e-02	1.363e+05	-3.217e+05	-2.635e+05	7.812e+04	1.525e+05	
4	1	167	62.67-30.55	52.24	-20.12	-29.39	1.903e+05	-2.817e+05	-1.185e+05	2.702e+04	2.245e+05	
4	1	168	46.57-29.47	11.41	5.69	-37.91	2.378e+05	-2.331e+05	5.150e+04	-4.671e+04	2.303e+05	
4	1	169	37.05-34.78	-25.68	27.95	-23.89	2.769e+05	-1.777e+05	2.021e+05	-1.029e+05	1.685e+05	
4	1	170	34.77-46.46	-46.09	34.40	5.48	3.058e+05	-1.181e+05	2.963e+05	-1.086e+05	6.270e+04	
4	1	171	36.75-60.83	-43.78	19.69	37.06	3.238e+05	-5.744e+04	3.177e+05	-5.129e+04	-4.802e+04	
4	1	172	40.09-74.39	-21.73	-12.57	57.06	3.312e+05	661.43	2.756e+05	5.632e+04	-1.237e+05	
4	1	173	43.23-85.05	9.43	-51.25	56.51	3.299e+05	5.154e+04	2.008e+05	1.807e+05	-1.388e+05	
4	1	174	45.36-91.61	35.86	-82.11	34.81	3.241e+05	8.890e+04	1.329e+05	2.800e+05	-9.175e+04	
4	1	175	46.15-93.49	46.15	-93.49	0.15	3.204e+05	1.047e+05	1.049e+05	3.202e+05	-5083.36	
4	1	176	45.45-90.53	36.03	-81.12	-34.52	3.233e+05	9.401e+04	1.299e+05	2.874e+05	8.332e+04	
4	1	177	43.35-83.01	10.09	-49.76	-55.64	3.298e+05	6.022e+04	1.967e+05	1.933e+05	1.348e+05	
4	1	178	40.26-71.72	-20.21	-11.25	-55.81	3.329e+05	1.125e+04	2.733e+05	7.076e+04	1.249e+05	



4	1	179	36.93-57.98 -41.40	20.35	-36.04	3.277e+05	-4.620e+04	3.200e+05	-3.849e+04	5.314e+04
4	1	180	34.88-43.91 -43.54	34.51	-5.39	3.119e+05	-1.072e+05	3.041e+05	-9.947e+04	-5.653e+04
4	1	181	52.16-62.08 -61.86	51.94	-5.01	3.814e+05	-9.186e+04	3.665e+05	-7.700e+04	-8.253e+04
4	1	182	53.73-50.83 -37.87	40.76	34.46	3.422e+05	-1.754e+05	2.526e+05	-8.585e+04	-1.958e+05
4	1	183	62.42-46.06 7.85	8.52	54.24	2.882e+05	-2.540e+05	7.608e+04	-4.184e+04	-2.646e+05
4	1	184	77.99-48.00 59.14	-29.15	44.94	2.218e+05	-3.238e+05	-1.243e+05	2.234e+04	-2.628e+05
4	1	185	97.59-54.32 97.14	-53.88	8.20	1.460e+05	-3.818e+05	-3.010e+05	6.525e+04	-1.900e+05
4	1	186	118.29-62.56107.10	-51.37	-43.57	6.456e+04	-4.255e+05	-4.146e+05	5.367e+04	-7.224e+04
4	1	187	137.89-70.9983.92	-17.02	-91.44	-1.845e+04	-4.537e+05	-4.482e+05	-2.393e+04	4.853e+04
4	1	188	154.88-78.5734.58	41.73	-116.67	-9.823e+04	-4.662e+05	-4.123e+05	-1.522e+05	1.302e+05
4	1	189	168.10-84.60-24.11	107.61	-107.83	-1.689e+05	-4.650e+05	-3.397e+05	-2.942e+05	1.462e+05
4	1	190	176.62-88.36-71.17	159.43	-65.27	-2.222e+05	-4.554e+05	-2.726e+05	-4.049e+05	9.602e+04
4	1	191	180.16-89.94-89.93	180.15	-1.26	-2.450e+05	-4.485e+05	-2.451e+05	-4.485e+05	3955.90
4	1	192	178.29-89.04-73.19	162.44	63.14	-2.278e+05	-4.535e+05	-2.708e+05	-4.105e+05	-8.862e+04
4	1	193	170.93-85.56-26.52	111.88	107.98	-1.782e+05	-4.631e+05	-3.373e+05	-3.040e+05	-1.414e+05
4	1	194	158.72-80.1233.06	45.53	119.26	-1.097e+05	-4.657e+05	-4.105e+05	-1.649e+05	-1.288e+05
4	1	195	142.26-72.8984.60	-15.24	95.29	-3.136e+04	-4.551e+05	-4.490e+05	-3.749e+04	-5.058e+04
4	1	196	122.66-64.66110.05	-52.06	46.92	5.082e+04	-4.292e+05	-4.195e+05	4.104e+04	6.782e+04
4	1	197	101.49-56.51101.20	-56.22	-6.78	1.320e+05	-3.880e+05	-3.106e+05	5.464e+04	1.851e+05
4	1	198	81.01-50.15 62.47	-31.61	-45.69	2.082e+05	-3.327e+05	-1.381e+05	1.362e+04	2.595e+05
4	1	199	64.40-48.09 9.15	7.16	-56.24	2.756e+05	-2.654e+05	6.028e+04	-5.001e+04	2.648e+05
4	1	200	54.78-52.78 -38.72	40.72	-36.27	3.314e+05	-1.889e+05	2.381e+05	-9.560e+04	1.996e+05
4	1	201	52.61-64.08 -63.92	52.44	4.34	3.731e+05	-1.068e+05	3.563e+05	-8.999e+04	8.823e+04
4	1	202	55.21-78.61 -58.52	35.12	47.80	3.994e+05	-2.283e+04	3.974e+05	-2.082e+04	-2.905e+04
4	1	203	59.55-92.80 -26.79	-6.46	75.49	4.097e+05	5.863e+04	3.700e+05	9.829e+04	-1.111e+05
4	1	204	63.72-104.2316.78	-57.29	75.37	4.054e+05	1.322e+05	3.052e+05	2.325e+05	-1.317e+05
4	1	205	66.55-111.4353.36	-98.24	46.62	3.918e+05	1.900e+05	2.431e+05	3.387e+05	-8.883e+04
4	1	206	67.59-113.6467.58	-113.64	0.12	3.818e+05	2.169e+05	2.171e+05	3.816e+05	-5571.77
4	1	207	66.59-110.6853.54	-97.63	-46.29	3.895e+05	1.983e+05	2.406e+05	3.471e+05	7.939e+04
4	1	208	63.70-102.8417.33	-56.47	-74.65	4.043e+05	1.450e+05	3.022e+05	2.471e+05	1.267e+05
4	1	209	59.52-90.99 -25.48	-5.99	-74.62	4.115e+05	7.346e+04	3.694e+05	1.155e+05	1.116e+05
4	1	210	55.02-76.59 -56.47	34.90	-47.36	4.045e+05	-7343.14	4.017e+05	-4584.78	3.359e+04
4	2	151	31.92-20.25 -8.90	20.57	21.53	2.131e+05	-1.343e+05	1.562e+05	-7.739e+04	-1.286e+05
4	2	152	41.64-19.55 19.17	2.92	29.49	1.845e+05	-1.786e+05	4.079e+04	-3.487e+04	-1.776e+05
4	2	153	55.03-22.47 48.95	-16.39	20.83	1.489e+05	-2.179e+05	-9.133e+04	2.230e+04	-1.744e+05
4	2	154	69.89-27.12 69.80	-27.03	-2.93	1.079e+05	-2.505e+05	-2.053e+05	6.264e+04	-1.191e+05
4	2	155	84.71-32.30 73.63	-21.22	-34.25	6.386e+04	-2.754e+05	-2.724e+05	6.093e+04	-3.140e+04
4	2	156	98.40-37.29 57.98	3.14	-62.06	1.925e+04	-2.919e+05	-2.810e+05	8405.63	5.706e+04
4	2	157	110.15-41.6227.28	41.25	-75.56	-2.286e+04	-3.005e+05	-2.399e+05	-8.345e+04	1.147e+05
4	2	158	119.30-45.00 -8.43	82.73	-68.34	-5.879e+04	-3.027e+05	-1.746e+05	-1.869e+05	1.218e+05
4	2	159	125.27-47.16-36.84	114.95	-40.90	-8.409e+04	-3.014e+05	-1.173e+05	-2.682e+05	7.820e+04
4	2	160	127.76-48.01-48.01	127.75	-0.72	-9.418e+04	-3.001e+05	-9.422e+04	-3.000e+05	2769.62
4	2	161	126.57-47.49-37.79	116.87	39.93	-8.669e+04	-3.008e+05	-1.157e+05	-2.718e+05	-7.327e+04
4	2	162	121.70-45.58 -9.52	85.64	68.79	-6.345e+04	-3.020e+05	-1.721e+05	-1.934e+05	-1.188e+05
4	2	163	113.39-42.4726.93	43.99	77.46	-2.898e+04	-3.003e+05	-2.377e+05	-9.152e+04	-1.143e+05
4	2	164	102.02-38.3159.08	4.63	64.67	1.216e+04	-2.925e+05	-2.806e+05	208.44	-5.915e+04



4	2	165	88.21-33.44	76.06	-21.30	36.47	5.621e+04	-2.772e+05	-2.749e+05	5.391e+04	2.765e+04
4	2	166	72.81-28.33	72.66	-28.18	3.89	1.001e+05	-2.538e+05	-2.112e+05	5.749e+04	1.152e+05
4	2	167	57.03-23.73	51.01	-17.70	-21.22	1.412e+05	-2.227e+05	-1.003e+05	1.880e+04	1.719e+05
4	2	168	42.65-20.89	19.60	2.15	-30.55	1.774e+05	-1.849e+05	3.050e+04	-3.791e+04	1.779e+05
4	2	169	32.18-21.83	-10.06	20.40	-22.30	2.071e+05	-1.419e+05	1.470e+05	-8.174e+04	1.318e+05
4	2	170	27.47-27.86	-27.82	27.42	-1.56	2.289e+05	-9.563e+04	2.205e+05	-8.728e+04	5.139e+04
4	2	171	27.30-37.23	-28.68	18.75	21.87	2.423e+05	-4.849e+04	2.384e+05	-4.462e+04	-3.331e+04
4	2	172	29.07-46.86	-14.48	-3.31	37.55	2.474e+05	-3232.27	2.076e+05	3.665e+04	-9.168e+04
4	2	173	31.11-54.68	7.09	-30.66	38.52	2.457e+05	3.659e+04	1.513e+05	1.310e+05	-1.041e+05
4	2	174	32.58-59.55	25.79	-52.77	24.07	2.405e+05	6.606e+04	1.000e+05	2.065e+05	-6.909e+04
4	2	175	33.13-60.95	33.13	-60.95	0.11	2.372e+05	7.866e+04	7.876e+04	2.371e+05	-3909.58
4	2	176	32.64-58.72	25.92	-52.01	-23.84	2.398e+05	7.012e+04	9.771e+04	2.122e+05	6.261e+04
4	2	177	31.20-53.11	7.60	-29.52	-37.85	2.455e+05	4.343e+04	1.482e+05	1.407e+05	1.010e+05
4	2	178	29.20-44.81	-13.31	-2.30	-36.59	2.486e+05	5051.80	2.058e+05	4.776e+04	9.260e+04
4	2	179	27.45-35.04	-26.85	19.26	-21.09	2.452e+05	-3.973e+04	2.402e+05	-3.477e+04	3.725e+04
4	2	180	27.56-25.91	-25.86	27.51	1.63	2.335e+05	-8.717e+04	2.266e+05	-8.024e+04	-4.664e+04
4	2	181	40.16-39.48	-39.35	40.03	3.21	2.857e+05	-7.725e+04	2.731e+05	-6.462e+04	-6.649e+04
4	2	182	44.50-33.96	-18.37	28.91	31.31	2.558e+05	-1.418e+05	1.844e+05	-7.036e+04	-1.527e+05
4	2	183	54.55-33.64	18.18	2.73	43.42	2.146e+05	-2.025e+05	4.799e+04	-3.591e+04	-2.043e+05
4	2	184	68.98-37.59	57.64	-26.25	32.87	1.637e+05	-2.565e+05	-1.062e+05	1.345e+04	-2.014e+05
4	2	185	85.51-43.90	85.49	-43.89	1.51	1.057e+05	-3.013e+05	-2.415e+05	4.587e+04	-1.441e+05
4	2	186	102.25-51.06	90.62	-39.44	-40.58	4.333e+04	-3.353e+05	-3.278e+05	3.589e+04	-5.256e+04
4	2	187	117.81-58.02	69.56	-9.78	-78.45	-2.017e+04	-3.573e+05	-3.523e+05	-2.518e+04	4.079e+04
4	2	188	131.17-64.14	28.24	38.78	-97.51	-8.108e+04	-3.674e+05	-3.232e+05	-1.253e+05	1.034e+05
4	2	189	141.50-68.96	-19.85	92.40	-89.01	-1.349e+05	-3.670e+05	-2.662e+05	-2.357e+05	1.151e+05
4	2	190	148.15-71.94	-58.04	134.25	-53.53	-1.751e+05	-3.604e+05	-2.137e+05	-3.218e+05	7.528e+04
4	2	191	150.91-73.19	-73.18	150.90	-0.96	-1.922e+05	-3.556e+05	-1.922e+05	-3.556e+05	3038.06
4	2	192	149.45-72.48	-59.60	136.58	51.89	-1.793e+05	-3.590e+05	-2.123e+05	-3.261e+05	-6.958e+04
4	2	193	143.71-69.72	-21.70	95.68	89.13	-1.419e+05	-3.657e+05	-2.643e+05	-2.433e+05	-1.114e+05
4	2	194	134.16-65.38	27.07	41.71	99.50	-8.985e+04	-3.670e+05	-3.218e+05	-1.350e+05	-1.024e+05
4	2	195	121.23-59.55	70.10	-8.42	81.42	-3.005e+04	-3.584e+05	-3.529e+05	-3.561e+04	-4.237e+04
4	2	196	105.69-52.76	92.90	-39.97	43.17	3.281e+04	-3.382e+05	-3.315e+05	2.617e+04	4.915e+04
4	2	197	88.61-45.70	88.61	-45.69	-0.41	9.498e+04	-3.062e+05	-2.489e+05	3.771e+04	1.403e+05
4	2	198	71.44-39.38	60.20	-28.14	-33.45	1.533e+05	-2.633e+05	-1.168e+05	6746.28	1.989e+05
4	2	199	56.24-35.37	19.18	1.68	-44.96	2.049e+05	-2.113e+05	3.583e+04	-4.220e+04	2.044e+05
4	2	200	45.46-35.60	-19.02	28.88	-32.70	2.476e+05	-1.523e+05	1.732e+05	-7.786e+04	1.556e+05
4	2	201	40.59-41.10	-40.93	40.42	-3.73	2.794e+05	-8.881e+04	2.652e+05	-7.462e+04	7.088e+04
4	2	202	40.52-50.19	-40.00	30.32	28.65	2.993e+05	-2.390e+04	2.982e+05	-2.279e+04	-1.889e+04
4	2	203	42.73-59.99	-18.97	1.71	50.31	3.068e+05	3.919e+04	2.786e+05	6.740e+04	-8.217e+04
4	2	204	45.36-68.20	11.60	-34.44	51.91	3.029e+05	9.642e+04	2.300e+05	1.694e+05	-9.870e+04
4	2	205	47.27-73.47	37.75	-63.95	32.54	2.915e+05	1.418e+05	1.831e+05	2.502e+05	-6.692e+04
4	2	206	47.98-75.10	47.98	-75.09	9.41e-02	2.831e+05	1.632e+05	1.633e+05	2.829e+05	-4287.26
4	2	207	47.30-72.89	37.89	-63.48	-32.29	2.895e+05	1.483e+05	1.811e+05	2.567e+05	5.965e+04
4	2	208	45.34-67.14	12.03	-33.82	-51.36	3.019e+05	1.064e+05	2.277e+05	1.806e+05	9.488e+04
4	2	209	42.69-58.58	-17.96	2.07	-49.64	3.080e+05	5.071e+04	2.781e+05	8.066e+04	8.252e+04
4	2	210	40.33-48.61	-38.43	30.15	-28.31	3.031e+05	-1.190e+04	3.015e+05	-1.030e+04	2.238e+04



M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-113.64	-89.93	-113.64	-116.67		-4.662e+05	-4.490e+05	-4.485e+05	-2.646e+05	
	180.16	110.05	180.15	119.26	4.115e+05		4.017e+05	3.816e+05	2.648e+05	

Macro	Tipo	Angolo 1-X (gradi)
5	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
5	1	32	202.27-69.59-44.22		176.89	-79.08	-3.366e+05	-6.191e+05	-3.937e+05	-5.621e+05	1.134e+05	
5	1	62	84.01-125.16-121.35		80.20	28.00	4.798e+05	-6.036e+04	4.626e+05	-4.318e+04	-9.477e+04	
5	1	63	101.70-120.66-79.18		60.22	86.62	4.177e+05	-1.727e+05	3.142e+05	-6.921e+04	-2.245e+05	
5	1	64	119.75-114.82-5.71		10.64	117.00	3.375e+05	-2.810e+05	9.253e+04	-3.601e+04	-3.025e+05	
5	1	65	137.32-107.9176.54		-47.13	105.88	2.428e+05	-3.800e+05	-1.565e+05	1.926e+04	-2.987e+05	
5	1	66	153.69-100.30141.09		-87.70	55.16	1.380e+05	-4.654e+05	-3.771e+05	4.961e+04	-2.133e+05	
5	1	67	168.29-92.46166.99		-91.15	-18.41	2.816e+04	-5.338e+05	-5.231e+05	1.755e+04	-7.646e+04	
5	1	68	180.63-84.97146.52		-50.85	-88.87	-8.107e+04	-5.826e+05	-5.745e+05	-8.915e+04	6.314e+04	
5	1	69	190.50-78.3888.54		23.58	-130.46	-1.835e+05	-6.113e+05	-5.430e+05	-2.518e+05	1.567e+05	
5	1	70	197.72-73.1115.61		109.00	-127.11	-2.719e+05	-6.216e+05	-4.665e+05	-4.270e+05	1.737e+05	
5	1	71	203.99-68.78-68.75		203.96	-3.00	-3.629e+05	-6.149e+05	-3.630e+05	-6.148e+05	4619.43	
5	1	72	202.89-70.14-47.87		180.62	74.73	-3.423e+05	-6.176e+05	-3.912e+05	-5.687e+05	-1.052e+05	
5	1	73	199.01-73.0711.08		114.85	125.76	-2.828e+05	-6.206e+05	-4.644e+05	-4.390e+05	-1.684e+05	
5	1	74	192.26-78.1084.91		29.25	132.28	-1.974e+05	-6.123e+05	-5.423e+05	-2.673e+05	-1.553e+05	
5	1	75	182.83-84.68145.49		-47.35	92.71	-9.701e+04	-5.863e+05	-5.773e+05	-1.060e+05	-6.558e+04	
5	1	76	170.90-92.25169.04		-90.39	22.06	1.077e+04	-5.406e+05	-5.312e+05	1335.13	7.149e+04	
5	1	77	156.77-100.27145.09		-88.59	-53.54	1.197e+05	-4.758e+05	-3.911e+05	3.504e+04	2.080e+05	
5	1	78	140.88-108.1780.46		-47.74	-106.76	2.244e+05	-3.938e+05	-1.756e+05	6201.81	2.954e+05	
5	1	79	123.81-115.55-3.64		11.90	-119.43	3.198e+05	-2.979e+05	7.090e+04	-4.906e+04	3.030e+05	
5	1	80	106.07-121.80-79.35		63.62	-88.72	4.016e+05	-1.922e+05	2.937e+05	-8.432e+04	2.289e+05	
5	1	81	88.59-126.76-122.89		84.72	-28.61	4.665e+05	-8.119e+04	4.471e+05	-6.181e+04	1.012e+05	
5	1	82	72.09-130.20-123.36		65.25	36.56	5.119e+05	2.986e+04	5.095e+05	3.222e+04	-3.367e+04	
5	1	83	57.53-132.11-86.34		11.75	81.15	5.368e+05	1.353e+05	4.906e+05	1.815e+05	-1.281e+05	
5	1	84	45.82-132.76-31.40		-55.54	88.47	5.421e+05	2.284e+05	4.253e+05	3.453e+05	-1.517e+05	
5	1	85	37.81-132.5515.84		-110.57	57.11	5.336e+05	2.998e+05	3.599e+05	4.735e+05	-1.021e+05	
5	1	86	34.44-131.9934.43		-131.98	1.43	5.254e+05	3.322e+05	3.324e+05	5.252e+05	-5853.02	
5	1	87	36.11-131.4216.23		-111.53	-54.18	5.324e+05	3.098e+05	3.583e+05	4.839e+05	9.192e+04	
5	1	88	42.62-130.86-30.67		-57.57	-85.70	5.435e+05	2.445e+05	4.244e+05	3.635e+05	1.464e+05	
5	1	89	53.50-129.96-84.97		8.51	-78.92	5.421e+05	1.546e+05	4.932e+05	2.035e+05	1.287e+05	
5	1	90	67.64-128.19-121.54		61.00	-35.46	5.215e+05	5.069e+04	5.183e+05	5.390e+04	3.876e+04	
5	1	181	43.493.36	10.30	36.55	-15.18	3.903e+05	-8.950e+04	3.790e+05	-7.821e+04	-7.274e+04	
5	1	182	24.7513.82	13.82	24.74	0.24	3.472e+05	-1.741e+05	2.619e+05	-8.879e+04	-1.928e+05	
5	1	183	26.872.22	25.59	3.50	5.47	2.900e+05	-2.547e+05	7.794e+04	-4.268e+04	-2.656e+05	
5	1	184	38.00-18.98	37.83	-18.80	-3.16	2.211e+05	-3.276e+05	-1.314e+05	2.487e+04	-2.630e+05	



5	1	185	49.02-40.01	41.99	-32.98	-24.01	1.438e+05	-3.895e+05	-3.149e+05	6.931e+04	-1.849e+05
5	1	186	59.48-59.82	31.83	-32.16	-50.34	6.203e+04	-4.379e+05	-4.308e+05	5.490e+04	-5.928e+04
5	1	187	69.05-77.44	5.84	-14.23	-72.56	-1.997e+04	-4.716e+05	-4.610e+05	-3.063e+04	6.859e+04
5	1	188	77.31-92.20	-31.59	16.70	-81.24	-9.703e+04	-4.906e+05	-4.171e+05	-1.705e+05	1.534e+05
5	1	189	83.80-103.41	-71.12	51.51	-70.73	-1.631e+05	-4.967e+05	-3.350e+05	-3.249e+05	1.667e+05
5	1	190	88.08-110.34	-101.21	78.95	-41.57	-2.106e+05	-4.949e+05	-2.603e+05	-4.451e+05	1.081e+05
5	1	191	90.25-113.15	-113.15	90.25	-0.32	-2.296e+05	-4.923e+05	-2.297e+05	-4.922e+05	3904.08
5	1	192	89.80-111.42	-102.64	81.02	41.11	-2.151e+05	-4.938e+05	-2.581e+05	-4.509e+05	-1.006e+05
5	1	193	86.43-105.00	-72.36	53.79	71.99	-1.717e+05	-4.959e+05	-3.324e+05	-3.351e+05	-1.621e+05
5	1	194	80.66-94.63	-31.96	17.99	84.01	-1.080e+05	-4.910e+05	-4.154e+05	-1.836e+05	-1.524e+05
5	1	195	72.56-80.49	7.08	-15.02	75.72	-3.261e+04	-4.739e+05	-4.620e+05	-4.443e+04	-7.124e+04
5	1	196	62.45-63.26	34.28	-35.09	52.42	4.833e+04	-4.424e+05	-4.363e+05	4.226e+04	5.422e+04
5	1	197	50.78-43.70	44.19	-37.11	24.08	1.297e+05	-3.964e+05	-3.257e+05	5.897e+04	1.795e+05
5	1	198	38.14-22.72	38.10	-22.68	1.55	2.071e+05	-3.370e+05	-1.465e+05	1.662e+04	2.596e+05
5	1	199	25.32-1.58	23.11	0.63	-7.39	2.769e+05	-2.666e+05	6.063e+04	-5.037e+04	2.660e+05
5	1	200	22.669.20	9.29	22.57	-1.08	3.356e+05	-1.879e+05	2.460e+05	-9.823e+04	1.972e+05
5	1	201	41.14-1.66	5.51	33.97	15.98	3.812e+05	-1.045e+05	3.679e+05	-9.122e+04	7.931e+04
5	1	202	58.68-12.41	15.83	30.44	34.78	4.119e+05	-2.061e+04	4.073e+05	-1.600e+04	-4.442e+04
5	1	203	73.35-21.35	38.10	13.90	45.78	4.275e+05	5.925e+04	3.739e+05	1.128e+05	-1.298e+05
5	1	204	84.49-27.87	64.81	-8.20	42.70	4.296e+05	1.292e+05	3.012e+05	2.576e+05	-1.486e+05
5	1	205	91.46-31.59	86.08	-26.21	25.15	4.234e+05	1.813e+05	2.326e+05	3.721e+05	-9.891e+04
5	1	206	94.07-32.19	94.06	-32.18	-1.17	4.185e+05	2.038e+05	2.039e+05	4.183e+05	-5579.73
5	1	207	92.10-29.75	85.83	-23.48	-26.92	4.226e+05	1.883e+05	2.299e+05	3.809e+05	8.955e+04
5	1	208	85.62-24.47	64.90	-3.75	-43.03	4.300e+05	1.409e+05	2.981e+05	2.729e+05	1.440e+05
5	1	209	75.01-16.76	39.63	18.62	-44.67	4.305e+05	7.344e+04	3.734e+05	1.306e+05	1.310e+05
5	1	210	60.69-7.25	19.28	34.17	-33.15	4.181e+05	-5344.64	4.121e+05	608.67	4.985e+04
5	2	32	168.69-59.56	-39.38	148.51	-64.80	-2.633e+05	-4.899e+05	-3.070e+05	-4.462e+05	8.937e+04
5	2	62	66.29-90.88	-84.94	60.34	29.98	3.593e+05	-5.460e+04	3.442e+05	-3.954e+04	-7.750e+04
5	2	63	81.83-89.36	-49.49	41.96	72.36	3.120e+05	-1.415e+05	2.284e+05	-5.792e+04	-1.758e+05
5	2	64	97.51-86.66	8.68	2.17	92.03	2.507e+05	-2.252e+05	5.700e+04	-3.149e+04	-2.338e+05
5	2	65	112.66-82.98	71.95	-42.27	79.42	1.782e+05	-3.018e+05	-1.346e+05	1.102e+04	-2.287e+05
5	2	66	126.73-78.60	119.95	-71.82	36.70	9.804e+04	-3.679e+05	-3.033e+05	3.348e+04	-1.610e+05
5	2	67	139.28-73.89	136.85	-71.46	-22.61	1.404e+04	-4.209e+05	-4.141e+05	7174.54	-5.422e+04
5	2	68	149.92-69.27	117.25	-36.60	-78.06	-6.942e+04	-4.591e+05	-4.515e+05	-7.701e+04	5.385e+04
5	2	69	158.46-65.16	68.62	24.68	-109.63	-1.475e+05	-4.819e+05	-4.251e+05	-2.043e+05	1.256e+05
5	2	70	164.73-61.82	9.01	93.90	-105.02	-2.146e+05	-4.907e+05	-3.643e+05	-3.410e+05	1.376e+05
5	2	71	170.20-59.13	-59.11	170.17	-2.31	-2.828e+05	-4.873e+05	-2.829e+05	-4.873e+05	3554.89
5	2	72	169.24-60.08	-42.22	151.37	61.46	-2.674e+05	-4.888e+05	-3.050e+05	-4.513e+05	-8.311e+04
5	2	73	165.85-61.92	5.53	98.40	103.99	-2.228e+05	-4.901e+05	-3.627e+05	-3.502e+05	-1.335e+05
5	2	74	159.98-65.11	65.83	29.04	111.03	-1.581e+05	-4.827e+05	-4.245e+05	-2.163e+05	-1.245e+05
5	2	75	151.81-69.25	116.47	-33.92	81.01	-8.159e+04	-4.620e+05	-4.536e+05	-8.994e+04	-5.574e+04
5	2	76	141.48-73.92	138.44	-70.88	25.41	735.03	-4.263e+05	-4.203e+05	-5296.68	5.039e+04
5	2	77	129.25-78.74	123.02	-72.51	-35.45	8.407e+04	-3.759e+05	-3.141e+05	2.228e+04	1.569e+05
5	2	78	115.50-83.28	74.96	-42.74	-80.10	1.642e+05	-3.124e+05	-1.492e+05	988.77	2.261e+05
5	2	79	100.67-87.27	10.26	3.14	-93.90	2.371e+05	-2.383e+05	4.036e+04	-4.152e+04	2.341e+05
5	2	80	85.18-90.22	-49.62	44.58	-73.98	2.997e+05	-1.565e+05	2.127e+05	-6.954e+04	1.792e+05



5	2	81	69.77-92.07	-86.13	63.82	-30.45	3.491e+05	-7.073e+04	3.323e+05	-5.387e+04	8.244e+04
5	2	82	55.04-92.68	-90.35	52.70	18.42	3.836e+05	1.520e+04	3.824e+05	1.635e+04	-2.061e+04
5	2	83	41.81-92.12	-65.90	15.58	53.15	4.020e+05	9.697e+04	3.700e+05	1.290e+05	-9.349e+04
5	2	84	30.95-90.78	-27.15	-32.67	60.80	4.052e+05	1.696e+05	3.217e+05	2.531e+05	-1.127e+05
5	2	85	23.43-89.25	6.80	-72.62	39.96	3.973e+05	2.258e+05	2.727e+05	3.504e+05	-7.641e+04
5	2	86	20.27-88.25	20.26	-88.24	1.10	3.899e+05	2.518e+05	2.520e+05	3.897e+05	-4509.48
5	2	87	22.01-88.27	7.10	-73.36	-37.72	3.961e+05	2.338e+05	2.715e+05	3.584e+05	6.855e+04
5	2	88	28.39-89.21	-26.60	-34.23	-58.67	4.060e+05	1.821e+05	3.210e+05	2.671e+05	1.086e+05
5	2	89	38.65-90.41	-64.85	13.09	-51.43	4.060e+05	1.120e+05	3.720e+05	1.459e+05	9.396e+04
5	2	90	51.63-91.14	-88.95	49.43	-17.58	3.908e+05	3.136e+04	3.891e+05	3.304e+04	2.453e+04
5	2	181	30.3113.42	15.39	28.34	-5.42	2.919e+05	-7.550e+04	2.819e+05	-6.555e+04	-5.963e+04
5	2	182	23.4113.95	20.33	17.03	4.43	2.591e+05	-1.410e+05	1.905e+05	-7.237e+04	-1.508e+05
5	2	183	31.61-1.54	30.60	-0.53	5.71	2.155e+05	-2.034e+05	4.829e+04	-3.619e+04	-2.052e+05
5	2	184	40.28-17.96	40.01	-17.69	-3.94	1.629e+05	-2.599e+05	-1.127e+05	1.577e+04	-2.014e+05
5	2	185	48.77-34.15	41.99	-27.37	-22.72	1.039e+05	-3.079e+05	-2.532e+05	4.924e+04	-1.397e+05
5	2	186	56.82-49.39	31.94	-24.51	-44.99	4.144e+04	-3.456e+05	-3.410e+05	3.684e+04	-4.193e+04
5	2	187	64.19-62.95	9.09	-7.86	-63.00	-2.112e+04	-3.721e+05	-3.625e+05	-3.063e+04	5.698e+04
5	2	188	70.54-74.31	-22.69	18.92	-69.37	-7.978e+04	-3.872e+05	-3.270e+05	-1.400e+05	1.220e+05
5	2	189	75.54-82.93	-55.70	48.30	-59.78	-1.299e+05	-3.927e+05	-2.624e+05	-2.602e+05	1.314e+05
5	2	190	78.82-88.26	-80.62	71.17	-34.92	-1.656e+05	-3.921e+05	-2.039e+05	-3.538e+05	8.485e+04
5	2	191	80.50-90.43	-90.43	80.50	-0.24	-1.799e+05	-3.904e+05	-1.799e+05	-3.904e+05	2995.48
5	2	192	80.16-89.10	-81.72	72.78	34.57	-1.690e+05	-3.913e+05	-2.021e+05	-3.582e+05	-7.912e+04
5	2	193	77.56-84.15	-56.65	50.06	60.75	-1.364e+05	-3.922e+05	-2.604e+05	-2.681e+05	-1.279e+05
5	2	194	73.12-76.18	-22.97	19.91	71.50	-8.815e+04	-3.876e+05	-3.257e+05	-1.501e+05	-1.213e+05
5	2	195	66.88-65.30	10.05	-8.47	65.44	-3.077e+04	-3.738e+05	-3.634e+05	-4.125e+04	-5.902e+04
5	2	196	59.10-52.04	33.83	-26.77	46.58	3.097e+04	-3.491e+05	-3.453e+05	2.712e+04	3.803e+04
5	2	197	50.12-36.98	43.69	-30.55	22.77	9.311e+04	-3.133e+05	-2.615e+05	4.128e+04	1.356e+05
5	2	198	40.35-20.80	40.23	-20.68	2.69	1.523e+05	-2.672e+05	-1.244e+05	9425.51	1.988e+05
5	2	199	30.26-4.32	28.69	-2.75	-7.19	2.055e+05	-2.126e+05	3.497e+04	-4.210e+04	2.055e+05
5	2	200	21.2310.96	16.84	15.36	-5.08	2.503e+05	-1.517e+05	1.783e+05	-7.964e+04	1.542e+05
5	2	201	28.529.54	11.70	26.36	6.03	2.849e+05	-8.717e+04	2.733e+05	-7.556e+04	6.469e+04
5	2	202	41.801.48	16.77	26.51	19.56	3.081e+05	-2.211e+04	3.053e+05	-1.937e+04	-2.995e+04
5	2	203	53.05-5.36	30.91	16.77	28.33	3.194e+05	3.993e+04	2.814e+05	7.795e+04	-9.582e+04
5	2	204	61.60-10.36	48.86	2.38	27.47	3.203e+05	9.456e+04	2.270e+05	1.878e+05	-1.112e+05
5	2	205	66.96-13.22	63.45	-9.71	16.41	3.146e+05	1.356e+05	1.753e+05	2.749e+05	-7.436e+04
5	2	206	68.97-13.69	68.96	-13.68	-0.90	3.102e+05	1.535e+05	1.536e+05	3.100e+05	-4293.53
5	2	207	67.47-11.81	63.26	-7.61	-17.77	3.137e+05	1.411e+05	1.732e+05	2.816e+05	6.716e+04
5	2	208	62.49-7.76	48.93	5.80	-27.73	3.204e+05	1.037e+05	2.246e+05	1.995e+05	1.076e+05
5	2	209	54.35-1.85	32.10	20.40	-27.48	3.217e+05	5.100e+04	2.810e+05	9.165e+04	9.670e+04
5	2	210	43.375.43	19.43	29.37	-18.31	3.127e+05	-1.024e+04	3.091e+05	-6597.15	3.413e+04

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-132.76	-123.36	-131.98	-130.46		-6.216e+05	-5.773e+05	-6.148e+05	-3.025e+05	
	203.99	169.04	203.96	132.28	5.435e+05		5.183e+05	5.252e+05	3.030e+05	





Macro	Tipo	Angolo 1-X (gradi)
6	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
6	1	32	88.23-608.36-537.23	17.10	-210.93	3.340e+05	-6.135e+05	2.177e+05	-4.973e+05	3.108e+05		
6	1	62	423.88-215.43-210.47	418.92	56.10	6.469e+05	-4.626e+05	6.338e+05	-4.495e+05	-1.198e+05		
6	1	63	394.12-278.31-179.01	294.82	238.56	6.548e+05	-5.289e+05	4.783e+05	-3.524e+05	-4.217e+05		
6	1	64	357.50-341.46-54.98	71.02	343.76	6.468e+05	-5.846e+05	1.621e+05	-9.994e+04	-6.016e+05		
6	1	65	315.30-401.70100.77	-187.17	328.32	6.225e+05	-6.263e+05	-2.131e+05	2.093e+05	-5.876e+05		
6	1	66	269.51-456.52213.24	-400.24	194.13	5.836e+05	-6.524e+05	-5.213e+05	4.525e+05	-3.806e+05		
6	1	67	222.83-504.08222.64	-503.89	-11.65	5.335e+05	-6.627e+05	-6.602e+05	5.310e+05	-5.468e+04		
6	1	68	178.26-543.35108.02	-473.11	-213.90	4.767e+05	-6.595e+05	-5.907e+05	4.080e+05	2.709e+05		
6	1	69	139.05-573.80-103.38	-331.36	-337.71	4.195e+05	-6.463e+05	-3.504e+05	1.236e+05	4.773e+05		
6	1	70	108.19-595.40-345.46	-141.75	-336.73	3.692e+05	-6.288e+05	-3.955e+04	-2.200e+05	4.908e+05		
6	1	71	80.64-612.99-612.92	80.57	-6.94	3.197e+05	-6.068e+05	3.196e+05	-6.067e+05	9989.25		
6	1	72	86.12-609.29-546.39	23.22	199.45	3.299e+05	-6.109e+05	2.269e+05	-5.080e+05	-2.937e+05		
6	1	73	104.23-597.09-360.99	-131.87	331.42	3.625e+05	-6.237e+05	-2.322e+04	-2.380e+05	-4.812e+05		
6	1	74	133.15-576.24-120.84	-322.25	340.10	4.103e+05	-6.400e+05	-3.327e+05	1.029e+05	-4.779e+05		
6	1	75	170.66-546.5793.16	-469.07	222.67	4.657e+05	-6.533e+05	-5.776e+05	3.900e+05	-2.810e+05		
6	1	76	213.96-508.25213.21	-507.50	23.18	5.214e+05	-6.579e+05	-6.567e+05	5.202e+05	3.868e+04		
6	1	77	260.10-461.89209.50	-411.29	-184.32	5.713e+05	-6.502e+05	-5.294e+05	4.505e+05	3.646e+05		
6	1	78	306.21-408.65100.32	-202.77	-323.72	6.107e+05	-6.279e+05	-2.313e+05	2.141e+05	5.779e+05		
6	1	79	349.73-350.34-55.96	55.34	-345.58	6.366e+05	-5.908e+05	1.396e+05	-9.373e+04	6.025e+05		
6	1	80	388.48-289.16-184.11	283.43	-245.26	6.474e+05	-5.397e+05	4.597e+05	-3.520e+05	4.332e+05		
6	1	81	420.92-227.90-221.50	414.51	-64.14	6.430e+05	-4.774e+05	6.260e+05	-4.605e+05	1.367e+05		
6	1	82	446.06-169.70-142.35	418.71	126.86	6.249e+05	-4.080e+05	5.947e+05	-3.778e+05	-1.740e+05		
6	1	83	463.82-118.0032.26	313.56	254.65	5.971e+05	-3.371e+05	3.963e+05	-1.363e+05	-3.838e+05		
6	1	84	474.72-76.41242.45	155.86	272.14	5.657e+05	-2.728e+05	1.225e+05	1.704e+05	-4.185e+05		
6	1	85	480.06-48.35412.74	18.97	176.18	5.393e+05	-2.253e+05	-1.100e+05	4.240e+05	-2.736e+05		
6	1	86	480.95-36.73480.82	-36.60	8.21	5.277e+05	-2.045e+05	-2.042e+05	5.275e+05	-1.412e+04		
6	1	87	478.44-42.94422.02	13.48	-161.97	5.361e+05	-2.164e+05	-1.215e+05	4.412e+05	2.498e+05		
6	1	88	472.63-66.58258.54	147.51	-263.82	5.612e+05	-2.580e+05	1.045e+05	1.987e+05	4.069e+05		
6	1	89	462.38-105.5750.68	306.13	-253.63	5.941e+05	-3.194e+05	3.806e+05	-1.059e+05	3.866e+05		
6	1	90	446.51-156.49-126.06	416.07	-132.01	6.251e+05	-3.905e+05	5.890e+05	-3.545e+05	1.879e+05		
6	1	211	306.71-77.16-74.55	304.10	31.56	6.457e+05	-2.856e+05	6.204e+05	-2.602e+05	-1.516e+05		
6	1	212	264.50-134.71-72.15	201.94	145.12	6.210e+05	-3.939e+05	4.464e+05	-2.193e+05	-3.831e+05		
6	1	213	219.73-197.29-13.52	35.96	207.04	5.731e+05	-4.902e+05	1.478e+05	-6.483e+04	-5.209e+05		
6	1	214	174.21-262.0262.17	-149.98	190.58	5.040e+05	-5.695e+05	-1.967e+05	1.312e+05	-5.111e+05		
6	1	215	129.79-325.90107.49	-303.60	98.31	4.172e+05	-6.286e+05	-4.902e+05	2.788e+05	-3.543e+05		
6	1	216	88.35-386.0085.24	-382.89	-38.27	3.176e+05	-6.655e+05	-6.540e+05	3.061e+05	-1.059e+05		
6	1	217	51.66-439.57-16.48	-371.44	-169.79	2.114e+05	-6.803e+05	-6.559e+05	1.870e+05	1.454e+05		
6	1	218	21.26-484.28-178.27	-284.74	-247.10	1.062e+05	-6.753e+05	-5.219e+05	-4.730e+04	3.105e+05		
6	1	219	-1.51-518.09-355.30	-164.30	-239.98	1.207e+04	-6.565e+05	-3.244e+05	-3.201e+05	3.343e+05		



6	1	220	-15.60-539.41-493.05	-61.96	-148.78	-5.722e+04	-6.343e+05	-1.543e+05	-5.372e+05	2.159e+05
6	1	221	-21.02-547.43-547.39	-21.05	-4.48	-8.599e+04	-6.227e+05	-8.612e+04	-6.226e+05	8099.10
6	1	222	-17.15-541.64-500.43	-58.36	141.13	-6.466e+04	-6.305e+05	-1.487e+05	-5.465e+05	-2.012e+05
6	1	223	-3.90-522.21-367.41	-158.69	237.21	-310.36	-6.511e+05	-3.148e+05	-3.366e+05	-3.252e+05
6	1	224	17.57-490.18-191.61	-281.00	249.91	9.045e+04	-6.704e+05	-5.122e+05	-6.773e+04	-3.087e+05
6	1	225	46.63-446.97-27.70	-372.63	176.54	1.936e+05	-6.772e+05	-6.503e+05	1.667e+05	-1.507e+05
6	1	226	82.14-394.6277.71	-390.19	45.78	2.988e+05	-6.655e+05	-6.559e+05	2.892e+05	9.577e+04
6	1	227	122.74-335.63102.90	-315.79	-93.28	3.983e+05	-6.325e+05	-5.013e+05	2.670e+05	3.436e+05
6	1	228	166.85-272.7658.09	-164.00	-189.69	4.858e+05	-5.781e+05	-2.158e+05	1.235e+05	5.042e+05
6	1	229	212.73-208.94-19.62	23.41	-209.73	5.569e+05	-5.036e+05	1.249e+05	-7.165e+04	5.211e+05
6	1	230	258.54-147.07-81.50	192.97	-149.32	6.080e+05	-4.121e+05	4.259e+05	-2.300e+05	3.906e+05
6	1	231	302.21-89.78-86.65	299.08	-34.86	6.371e+05	-3.075e+05	6.081e+05	-2.785e+05	1.628e+05
6	1	232	341.67-39.40-18.26	320.54	87.21	6.437e+05	-1.952e+05	6.364e+05	-1.880e+05	-7.789e+04
6	1	233	374.892.24 109.64	267.49	168.78	6.296e+05	-8.197e+04	5.314e+05	1.616e+04	-2.453e+05
6	1	234	400.0733.71257.37	176.42	178.65	5.996e+05	2.321e+04	3.598e+05	2.630e+05	-2.841e+05
6	1	235	415.7953.94374.90	94.82	114.55	5.648e+05	1.060e+05	2.070e+05	4.638e+05	-1.901e+05
6	1	236	421.1262.26421.08	62.30	4.02	5.459e+05	1.440e+05	1.443e+05	5.456e+05	-1.164e+04
6	1	237	415.9358.19379.94	94.18	-107.61	5.598e+05	1.194e+05	2.002e+05	4.789e+05	1.705e+05
6	1	238	400.7341.59266.76	175.56	-173.68	5.945e+05	4.427e+04	3.498e+05	2.889e+05	2.734e+05
6	1	239	376.4812.83121.85	267.46	-166.62	6.281e+05	-5.783e+04	5.245e+05	4.574e+04	2.456e+05
6	1	240	344.59-27.28 -5.09	322.40	-88.08	6.473e+05	-1.711e+05	6.380e+05	-1.618e+05	8.653e+04
6	2	32	76.09-490.19-434.52	20.42	-168.60	2.772e+05	-4.837e+05	1.870e+05	-3.935e+05	2.459e+05
6	2	62	314.19-167.85-161.09	307.43	56.68	4.971e+05	-3.468e+05	4.834e+05	-3.331e+05	-1.066e+05
6	2	63	294.24-219.16-132.07	207.15	192.68	5.058e+05	-4.004e+05	3.587e+05	-2.533e+05	-3.342e+05
6	2	64	268.89-270.56-34.02	32.35	267.67	5.020e+05	-4.457e+05	1.126e+05	-5.628e+04	-4.662e+05
6	2	65	239.11-319.5885.79	-166.26	249.31	4.856e+05	-4.801e+05	-1.760e+05	1.816e+05	-4.485e+05
6	2	66	206.44-364.30169.66	-327.52	140.15	4.581e+05	-5.024e+05	-4.102e+05	3.659e+05	-2.829e+05
6	2	67	172.94-403.29172.06	-402.42	-22.49	4.219e+05	-5.128e+05	-5.119e+05	4.210e+05	-2.761e+04
6	2	68	140.87-435.7277.72	-372.56	-180.07	3.807e+05	-5.127e+05	-4.518e+05	3.198e+05	2.250e+05
6	2	69	112.64-461.07-91.36	-257.07	-274.63	3.391e+05	-5.050e+05	-2.601e+05	9.421e+04	3.830e+05
6	2	70	90.43-479.21-283.19	-105.59	-270.62	3.026e+05	-4.937e+05	-1.498e+04	-1.762e+05	3.899e+05
6	2	71	70.64-494.14-494.09	70.59	-5.34	2.669e+05	-4.792e+05	2.668e+05	-4.791e+05	7682.55
6	2	72	74.59-491.03-441.57	25.12	159.78	2.742e+05	-4.818e+05	1.941e+05	-4.017e+05	-2.327e+05
6	2	73	87.62-480.75-295.13	-98.00	266.54	2.977e+05	-4.901e+05	-2419.05	-1.900e+05	-3.826e+05
6	2	74	108.43-463.27-104.77	-250.07	276.47	3.323e+05	-5.005e+05	-2.465e+05	7.829e+04	-3.835e+05
6	2	75	135.42-438.5866.30	-369.45	186.81	3.726e+05	-5.083e+05	-4.417e+05	3.060e+05	-2.328e+05
6	2	76	166.54-406.91164.82	-405.19	31.35	4.130e+05	-5.094e+05	-5.092e+05	4.127e+05	1.530e+04
6	2	77	199.61-368.84166.78	-336.01	-132.61	4.490e+05	-5.011e+05	-4.165e+05	3.643e+05	2.706e+05
6	2	78	232.50-325.3085.44	-178.24	-245.77	4.770e+05	-4.817e+05	-1.900e+05	1.853e+05	4.411e+05
6	2	79	263.25-277.72-34.77	20.30	-269.08	4.946e+05	-4.508e+05	9.534e+04	-5.150e+04	4.669e+05
6	2	80	290.23-227.82-135.99	198.39	-197.84	5.005e+05	-4.091e+05	3.444e+05	-2.530e+05	3.430e+05
6	2	81	312.25-177.78-169.58	304.05	-62.86	4.946e+05	-3.587e+05	4.775e+05	-3.416e+05	1.196e+05
6	2	82	328.64-130.05-114.87	313.45	82.06	4.781e+05	-3.026e+05	4.600e+05	-2.846e+05	-1.173e+05
6	2	83	339.42-87.4112.99	239.02	181.04	4.538e+05	-2.452e+05	3.143e+05	-1.057e+05	-2.793e+05
6	2	84	345.25-52.86169.05	123.34	197.74	4.266e+05	-1.927e+05	1.096e+05	1.242e+05	-3.096e+05
6	2	85	347.47-29.39296.23	21.85	129.18	4.037e+05	-1.536e+05	-6.507e+04	3.152e+05	-2.037e+05



6	2	86	347.36-19.65347.25	-19.54	6.32	3.935e+05	-1.364e+05	-1.361e+05	3.933e+05	-1.087e+04
6	2	87	345.95-24.95303.37	17.63	-118.24	4.008e+05	-1.463e+05	-7.394e+04	3.284e+05	1.854e+05
6	2	88	343.21-44.86181.43	116.92	-191.34	4.225e+05	-1.807e+05	9.584e+04	1.460e+05	3.006e+05
6	2	89	337.87-77.4027.16	233.31	-180.24	4.508e+05	-2.310e+05	3.022e+05	-8.235e+04	2.815e+05
6	2	90	328.59-119.50-102.33	311.42	-86.01	4.776e+05	-2.886e+05	4.556e+05	-2.667e+05	1.279e+05
6	2	211	224.59-61.51-56.55	219.63	37.34	4.946e+05	-2.176e+05	4.712e+05	-1.941e+05	-1.271e+05
6	2	212	195.51-109.17-50.04	136.38	120.50	4.769e+05	-3.021e+05	3.336e+05	-1.589e+05	-3.018e+05
6	2	213	164.33-160.57-2.39	6.15	162.39	4.412e+05	-3.773e+05	1.019e+05	-3.808e+04	-4.032e+05
6	2	214	132.29-213.3455.83	-136.88	143.46	3.891e+05	-4.395e+05	-1.630e+05	1.127e+05	-3.907e+05
6	2	215	100.75-265.1088.14	-252.49	66.75	3.235e+05	-4.860e+05	-3.868e+05	2.243e+05	-2.655e+05
6	2	216	71.11-313.5766.36	-308.82	-42.51	2.482e+05	-5.157e+05	-5.090e+05	2.415e+05	-7.101e+04
6	2	217	44.73-356.62-17.85	-294.04	-145.61	1.679e+05	-5.285e+05	-5.058e+05	1.451e+05	1.238e+05
6	2	218	22.79-392.45-148.54	-221.12	-204.42	8.869e+04	-5.265e+05	-3.977e+05	-4.009e+04	2.503e+05
6	2	219	6.30-419.49-290.15	-123.03	-195.81	1.832e+04	-5.140e+05	-2.415e+05	-2.542e+05	2.661e+05
6	2	220	-3.89-436.52-399.80	-40.62	-120.58	-3.298e+04	-4.989e+05	-1.077e+05	-4.242e+05	1.709e+05
6	2	221	-7.83-442.93-442.90	-7.86	-3.43	-5.410e+04	-4.910e+05	-5.419e+04	-4.909e+05	6220.77
6	2	222	-5.02-438.32-405.47	-37.87	114.70	-3.847e+04	-4.962e+05	-1.034e+05	-4.314e+05	-1.597e+05
6	2	223	4.63-422.82-299.46	-118.73	193.68	9104.69	-5.102e+05	-2.341e+05	-2.670e+05	-2.591e+05
6	2	224	20.19-397.23-158.79	-218.24	206.58	7.687e+04	-5.229e+05	-3.903e+05	-5.580e+04	-2.489e+05
6	2	225	41.18-362.62-26.47	-294.96	150.80	1.545e+05	-5.264e+05	-5.015e+05	1.295e+05	-1.279e+05
6	2	226	66.69-320.5560.57	-314.43	48.28	2.339e+05	-5.159e+05	-5.105e+05	2.285e+05	6.325e+04
6	2	227	95.67-272.9284.61	-261.86	-62.89	3.091e+05	-4.893e+05	-3.953e+05	2.152e+05	2.572e+05
6	2	228	126.94-221.8952.69	-147.65	-142.78	3.753e+05	-4.462e+05	-1.777e+05	1.068e+05	3.853e+05
6	2	229	159.20-169.77-7.08	-3.49	-164.47	4.288e+05	-3.878e+05	8.433e+04	-4.333e+04	4.033e+05
6	2	230	191.13-118.87-57.23	129.49	-123.73	4.670e+05	-3.163e+05	3.179e+05	-1.672e+05	3.075e+05
6	2	231	221.32-71.40-65.86	215.78	-39.88	4.882e+05	-2.347e+05	4.618e+05	-2.082e+05	1.357e+05
6	2	232	248.39-29.36-19.22	238.25	52.09	4.919e+05	-1.469e+05	4.883e+05	-1.433e+05	-4.795e+04
6	2	233	271.015.59 72.93	203.68	115.49	4.793e+05	-5.806e+04	4.125e+05	8724.63	-1.773e+05
6	2	234	288.0532.13181.13	139.05	126.22	4.540e+05	2.512e+04	2.848e+05	1.943e+05	-2.096e+05
6	2	235	298.6149.23267.86	79.98	81.99	4.244e+05	9.166e+04	1.703e+05	3.458e+05	-1.413e+05
6	2	236	302.1256.22302.08	56.26	3.09	4.079e+05	1.228e+05	1.231e+05	4.077e+05	-8954.84
6	2	237	298.5552.66271.73	79.47	-76.64	4.199e+05	1.025e+05	1.650e+05	3.574e+05	1.262e+05
6	2	238	288.2938.46188.36	138.39	-122.39	4.495e+05	4.187e+04	2.772e+05	2.142e+05	2.014e+05
6	2	239	271.9614.01 82.32	203.65	-113.82	4.778e+05	-3.908e+04	4.072e+05	3.148e+04	1.775e+05
6	2	240	250.40-19.81 -9.09	239.68	-52.75	4.944e+05	-1.280e+05	4.895e+05	-1.232e+05	5.459e+04

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-612.99	-612.92	-507.50	-345.58		-6.803e+05	-6.602e+05	-6.226e+05	-6.016e+05	
	480.95	480.82	418.92	343.76	6.548e+05		6.380e+05	5.456e+05	6.025e+05	

Macro	Tipo	Angolo 1-X (gradi)
7	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
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			N/mm	N/mm	N/mm	N/mm	N/mm	N	N	N	N	N
7	1	211	392.25-117.19-109.28	384.34	62.98	7.002e+05	-3.070e+05	6.792e+05	-2.860e+05	-1.440e+05		
7	1	212	349.14-194.82-103.68	258.00	203.16	6.687e+05	-4.216e+05	4.905e+05	-2.434e+05	-4.032e+05		
7	1	213	297.04-272.69-29.56	53.91	281.79	6.142e+05	-5.255e+05	1.614e+05	-7.273e+04	-5.577e+05		
7	1	214	238.00-347.1466.74	-175.88	266.23	5.388e+05	-6.133e+05	-2.194e+05	1.449e+05	-5.465e+05		
7	1	215	174.88-415.08128.58	-368.79	158.64	4.466e+05	-6.813e+05	-5.426e+05	3.079e+05	-3.704e+05		
7	1	216	111.18-474.23111.16	-474.20	-4.08	3.427e+05	-7.274e+05	-7.195e+05	3.348e+05	-9.182e+04		
7	1	217	50.75-523.04 -0.45	-471.84	-163.58	2.340e+05	-7.516e+05	-7.141e+05	1.965e+05	1.886e+05		
7	1	218	-2.35-560.78-183.99	-379.14	-261.61	1.288e+05	-7.565e+05	-5.561e+05	-7.167e+04	3.705e+05		
7	1	219	-44.22-587.38-387.12	-244.49	-262.05	3.725e+04	-7.477e+05	-3.278e+05	-3.826e+05	3.915e+05		
7	1	220	-71.35-603.28-546.03	-128.61	-164.86	-2.786e+04	-7.342e+05	-1.324e+05	-6.297e+05	2.508e+05		
7	1	221	-81.77-608.91-608.84	-81.84	-6.06	-5.401e+04	-7.268e+05	-5.412e+04	-7.267e+05	8860.45		
7	1	222	-74.29-604.54-554.80	-124.03	154.60	-3.460e+04	-7.313e+05	-1.259e+05	-6.400e+05	-2.351e+05		
7	1	223	-49.50-590.01-402.01	-237.49	257.43	2.534e+04	-7.433e+05	-3.171e+05	-4.009e+05	-3.820e+05		
7	1	224	-9.97-564.78-200.92	-373.83	263.59	1.131e+05	-7.525e+05	-5.454e+05	-9.399e+04	-3.693e+05		
7	1	225	41.27-528.54-15.49	-471.78	170.65	2.159e+05	-7.495e+05	-7.082e+05	1.746e+05	-1.954e+05		
7	1	226	100.46-481.37100.18	-481.09	12.80	3.232e+05	-7.283e+05	-7.222e+05	3.171e+05	7.988e+04		
7	1	227	163.72-424.04121.34	-381.67	-152.02	4.266e+05	-6.863e+05	-5.559e+05	2.962e+05	3.580e+05		
7	1	228	227.26-358.0560.82	-191.60	-264.04	5.194e+05	-6.232e+05	-2.418e+05	1.380e+05	5.388e+05		
7	1	229	287.65-285.59-37.13	39.19	-284.06	5.964e+05	-5.404e+05	1.347e+05	-7.875e+04	5.583e+05		
7	1	230	341.90-209.48-114.85	247.28	-207.90	6.539e+05	-4.414e+05	4.666e+05	-2.541e+05	4.124e+05		
7	1	231	387.67-133.02-124.17	378.82	-67.31	6.897e+05	-3.304e+05	6.648e+05	-3.055e+05	1.576e+05		
7	1	232	423.42-60.02-45.50	408.90	82.52	7.033e+05	-2.135e+05	6.897e+05	-1.999e+05	-1.108e+05		
7	1	233	448.605.37 104.34	349.64	184.58	6.966e+05	-9.801e+04	5.651e+05	3.353e+04	-2.953e+05		
7	1	234	463.8858.57278.29	244.16	201.94	6.751e+05	6038.42	3.665e+05	3.147e+05	-3.335e+05		
7	1	235	471.0894.80417.21	148.67	131.79	6.494e+05	8.442e+04	1.910e+05	5.429e+05	-2.210e+05		
7	1	236	472.46109.81472.34	109.93	6.37	6.361e+05	1.188e+05	1.191e+05	6.358e+05	-1.259e+04		
7	1	237	469.63101.33424.59	146.37	-120.66	6.462e+05	9.695e+04	1.833e+05	5.599e+05	1.999e+05		
7	1	238	462.2470.23291.66	240.81	-194.35	6.721e+05	2.678e+04	3.553e+05	3.435e+05	3.226e+05		
7	1	239	448.1520.18121.00	347.32	-181.62	6.971e+05	-7.332e+04	5.575e+05	6.629e+04	2.968e+05		
7	1	240	425.23-43.96-28.42	409.69	-83.95	7.087e+05	-1.882e+05	6.919e+05	-1.713e+05	1.217e+05		
7	1	241	396.92-132.36-126.39	390.94	55.92	8.539e+05	-2.620e+05	8.100e+05	-2.181e+05	-2.170e+05		
7	1	242	353.61-206.18-116.62	264.06	205.21	7.950e+05	-4.314e+05	5.680e+05	-2.043e+05	-4.763e+05		
7	1	243	303.13-281.49-32.92	54.55	289.02	7.023e+05	-5.855e+05	1.850e+05	-6.822e+04	-6.314e+05		
7	1	244	247.38-354.8474.76	-182.22	272.31	5.800e+05	-7.172e+05	-2.504e+05	1.132e+05	-6.226e+05		
7	1	245	189.00-423.24145.38	-379.63	157.48	4.338e+05	-8.206e+05	-6.300e+05	2.432e+05	-4.503e+05		
7	1	246	131.01-484.21130.60	-483.79	-15.98	2.712e+05	-8.915e+05	-8.646e+05	2.443e+05	-1.747e+05		
7	1	247	76.77-535.8814.27	-473.37	-185.44	1.006e+05	-9.281e+05	-9.169e+05	8.940e+04	1.069e+05		
7	1	248	29.70-577.01-179.87	-367.45	-288.49	-6.798e+04	-9.313e+05	-8.126e+05	-1.867e+05	2.974e+05		
7	1	249	-7.05-606.90-395.74	-218.21	-286.49	-2.221e+05	-9.064e+05	-6.288e+05	-4.996e+05	3.360e+05		
7	1	250	-30.82-625.19-564.88	-91.13	-179.48	-3.422e+05	-8.671e+05	-4.633e+05	-7.460e+05	2.211e+05		
7	1	251	-39.89-631.88-631.81	-39.96	-6.52	-3.957e+05	-8.432e+05	-3.959e+05	-8.430e+05	1.004e+04		
7	1	252	-33.58-626.89-574.19	-86.28	168.78	-3.553e+05	-8.605e+05	-4.579e+05	-7.578e+05	-2.033e+05		
7	1	253	-12.39-610.17-411.42	-211.14	281.62	-2.427e+05	-8.985e+05	-6.203e+05	-5.209e+05	-3.241e+05		
7	1	254	22.06-581.91-197.66	-362.20	290.56	-9.286e+04	-9.257e+05	-8.046e+05	-2.139e+05	-2.935e+05		
7	1	255	67.40-542.39 -1.33	-473.66	192.84	7.323e+04	-9.265e+05	-9.140e+05	6.074e+04	-1.110e+05		



7	1	256	120.62-492.34119.60	-491.31	25.06	2.424e+05	-8.950e+05	-8.705e+05	2.180e+05	1.650e+05
7	1	257	178.46-433.01138.74	-393.29	-150.70	4.047e+05	-8.301e+05	-6.466e+05	2.212e+05	4.392e+05
7	1	258	237.60-366.2270.00	-198.63	-270.39	5.518e+05	-7.332e+05	-2.766e+05	9.509e+04	6.151e+05
7	1	259	294.90-294.31-38.97	39.56	-291.98	6.767e+05	-6.082e+05	1.541e+05	-8.566e+04	6.311e+05
7	1	260	347.58-220.12-126.18	253.64	-210.96	7.737e+05	-4.601e+05	5.394e+05	-2.259e+05	4.839e+05
7	1	261	393.32-146.89-139.82	386.24	-61.41	8.387e+05	-2.956e+05	7.907e+05	-2.475e+05	2.284e+05
7	1	262	430.51-78.19-58.72	411.03	97.60	8.695e+05	-1.220e+05	8.676e+05	-1.202e+05	-4.283e+04
7	1	263	458.32-17.8199.18	341.33	204.98	8.659e+05	5.178e+04	7.910e+05	1.267e+05	-2.353e+05
7	1	264	476.8230.33283.56	223.58	221.22	8.315e+05	2.152e+05	6.321e+05	4.146e+05	-2.883e+05
7	1	265	486.8662.45431.05	118.26	143.43	7.776e+05	3.512e+05	4.832e+05	6.457e+05	-1.971e+05
7	1	266	489.5575.49489.45	75.59	6.27	7.406e+05	4.206e+05	4.212e+05	7.400e+05	-1.395e+04
7	1	267	485.7867.91438.29	115.39	-132.62	7.680e+05	3.739e+05	4.770e+05	6.649e+05	1.733e+05
7	1	268	475.5340.23296.55	219.22	-214.19	8.242e+05	2.475e+05	6.238e+05	4.479e+05	2.746e+05
7	1	269	457.86-4.96115.12	337.77	-202.87	8.656e+05	8.779e+04	7.873e+05	1.661e+05	2.340e+05
7	1	270	431.79-63.90-42.79	410.68	-100.11	8.771e+05	-8.587e+04	8.744e+05	-8.314e+04	5.118e+04
7	2	211	289.57-95.33-85.31	279.55	61.30	5.352e+05	-2.337e+05	5.151e+05	-2.136e+05	-1.226e+05
7	2	212	258.96-157.59-76.42	177.78	165.00	5.126e+05	-3.236e+05	3.657e+05	-1.767e+05	-3.182e+05
7	2	213	221.24-219.85-16.90	18.29	219.84	4.722e+05	-4.050e+05	1.102e+05	-4.303e+04	-4.318e+05
7	2	214	178.07-279.3757.18	-158.48	201.70	4.157e+05	-4.741e+05	-1.827e+05	1.244e+05	-4.176e+05
7	2	215	131.69-333.80102.24	-304.36	113.31	3.463e+05	-5.279e+05	-4.290e+05	2.474e+05	-2.768e+05
7	2	216	84.80-381.4184.25	-380.86	-15.99	2.680e+05	-5.650e+05	-5.608e+05	2.639e+05	-5.873e+04
7	2	217	40.33-420.97 -7.47	-373.17	-140.59	1.862e+05	-5.855e+05	-5.513e+05	1.521e+05	1.588e+05
7	2	218	1.33-451.85-154.79	-295.73	-215.35	1.073e+05	-5.912e+05	-4.240e+05	-5.990e+04	2.981e+05
7	2	219	-29.34-473.85-316.39	-186.81	-212.60	3.906e+04	-5.866e+05	-2.435e+05	-3.040e+05	3.114e+05
7	2	220	-49.14-487.14-442.25	-94.04	-132.85	-9109.51	-5.782e+05	-8.983e+04	-4.974e+05	1.985e+05
7	2	221	-56.73-491.90-491.85	-56.78	-4.65	-2.834e+04	-5.734e+05	-2.842e+04	-5.733e+05	6808.85
7	2	222	-51.27-488.26-449.00	-90.53	124.96	-1.408e+04	-5.761e+05	-8.482e+04	-5.054e+05	-1.864e+05
7	2	223	-33.13-476.14-327.84	-181.43	209.05	3.022e+04	-5.836e+05	-2.353e+05	-3.181e+05	-3.041e+05
7	2	224	-4.18-455.27-167.81	-291.65	216.88	9.558e+04	-5.885e+05	-4.158e+05	-7.708e+04	-2.971e+05
7	2	225	33.42-425.58-19.03	-373.14	146.02	1.726e+05	-5.841e+05	-5.467e+05	1.352e+05	-1.640e+05
7	2	226	76.92-387.2775.81	-386.16	22.69	2.533e+05	-5.660e+05	-5.630e+05	2.503e+05	4.955e+04
7	2	227	123.43-341.0396.68	-314.27	-108.22	3.311e+05	-5.320e+05	-4.393e+05	2.384e+05	2.673e+05
7	2	228	170.08-288.0352.63	-170.57	-200.03	4.010e+05	-4.819e+05	-2.000e+05	1.191e+05	4.116e+05
7	2	229	214.21-229.98-22.72	6.96	-221.60	4.587e+05	-4.168e+05	8.964e+04	-4.767e+04	4.323e+05
7	2	230	253.54-169.02-85.01	169.54	-168.65	5.015e+05	-3.390e+05	3.473e+05	-1.848e+05	3.253e+05
7	2	231	286.22-107.68-96.77	275.31	-64.63	5.274e+05	-2.521e+05	5.039e+05	-2.286e+05	1.331e+05
7	2	232	311.03-48.84-42.12	304.31	48.72	5.360e+05	-1.603e+05	5.286e+05	-1.529e+05	-7.156e+04
7	2	233	327.614.26 67.00	264.87	127.87	5.287e+05	-6.929e+04	4.384e+05	2.101e+04	-2.141e+05
7	2	234	336.6247.93195.47	189.08	144.31	5.095e+05	1.338e+04	2.906e+05	2.323e+05	-2.463e+05
7	2	235	339.8978.05298.70	119.25	95.34	4.869e+05	7.651e+04	1.589e+05	4.045e+05	-1.644e+05
7	2	236	339.9390.63339.83	90.73	4.90	4.750e+05	1.046e+05	1.048e+05	4.748e+05	-9686.43
7	2	237	338.4683.40304.38	117.48	-86.78	4.839e+05	8.665e+04	1.530e+05	4.176e+05	1.482e+05
7	2	238	334.9357.32205.76	186.50	-138.47	5.066e+05	2.993e+04	2.820e+05	2.545e+05	2.379e+05
7	2	239	326.9215.99 79.83	263.09	-125.59	5.286e+05	-4.980e+04	4.326e+05	4.622e+04	2.152e+05
7	2	240	312.20-36.26-28.98	304.93	-49.82	5.398e+05	-1.404e+05	5.303e+05	-1.309e+05	7.992e+04
7	2	241	292.39-106.12-97.83	284.10	56.88	6.510e+05	-2.048e+05	6.127e+05	-1.665e+05	-1.770e+05



7	2	242	262.08-165.89-85.37	181.56	167.26	6.065e+05	-3.359e+05	4.229e+05	-1.523e+05	-3.733e+05
7	2	243	226.07-226.66-18.28	17.69	225.65	5.360e+05	-4.552e+05	1.264e+05	-4.562e+04	-4.881e+05
7	2	244	185.86-285.7564.55	-164.44	206.14	4.426e+05	-5.572e+05	-2.086e+05	9.396e+04	-4.765e+05
7	2	245	143.48-340.89116.17	-313.58	111.73	3.309e+05	-6.375e+05	-4.986e+05	1.920e+05	-3.395e+05
7	2	246	101.24-390.1699.85	-388.76	-26.15	2.067e+05	-6.930e+05	-6.755e+05	1.892e+05	-1.243e+05
7	2	247	61.68-432.07 4.03	-374.42	-158.56	7.661e+04	-7.222e+05	-7.111e+05	6.543e+04	9.383e+04
7	2	248	27.36-465.60-151.92	-286.32	-237.14	-5.166e+04	-7.262e+05	-6.260e+05	-1.518e+05	2.398e+05
7	2	249	0.58-490.08-323.75	-165.76	-232.27	-1.682e+05	-7.090e+05	-4.805e+05	-3.967e+05	2.671e+05
7	2	250	-16.71-505.14-457.76	-64.09	-144.57	-2.580e+05	-6.814e+05	-3.503e+05	-5.891e+05	1.748e+05
7	2	251	-23.29-510.68-510.63	-23.35	-5.01	-2.972e+05	-6.649e+05	-2.974e+05	-6.647e+05	7721.64
7	2	252	-18.70-506.59-464.93	-60.36	136.35	-2.676e+05	-6.767e+05	-3.462e+05	-5.982e+05	-1.611e+05
7	2	253	-3.27-492.86-335.80	-160.32	228.53	-1.837e+05	-7.033e+05	-4.739e+05	-4.131e+05	-2.580e+05
7	2	254	21.82-469.70-165.60	-282.28	238.74	-7.056e+04	-7.221e+05	-6.199e+05	-1.727e+05	-2.369e+05
7	2	255	54.86-437.46 -7.96	-374.64	164.26	5.569e+04	-7.212e+05	-7.089e+05	4.338e+04	-9.703e+04
7	2	256	93.64-396.8191.39	-394.56	33.14	1.847e+05	-6.958e+05	-6.801e+05	1.689e+05	1.168e+05
7	2	257	135.73-348.78111.06	-324.10	-106.52	3.086e+05	-6.450e+05	-5.114e+05	1.750e+05	3.310e+05
7	2	258	178.65-294.8260.89	-177.06	-204.67	4.210e+05	-5.697e+05	-2.287e+05	8.000e+04	4.707e+05
7	2	259	220.01-236.78-22.93	6.16	-227.93	5.163e+05	-4.728e+05	1.026e+05	-5.905e+04	4.879e+05
7	2	260	257.67-176.86-92.73	173.54	-171.69	5.902e+05	-3.582e+05	4.009e+05	-1.689e+05	3.791e+05
7	2	261	289.87-117.54-108.17	280.49	-61.10	6.395e+05	-2.308e+05	5.978e+05	-1.891e+05	1.858e+05
7	2	262	315.42-61.63-52.11	305.89	59.16	6.622e+05	-9.638e+04	6.616e+05	-9.578e+04	-2.134e+04
7	2	263	333.76-12.1462.73	258.90	142.45	6.583e+05	3.853e+04	6.075e+05	8.929e+04	-1.699e+05
7	2	264	345.2027.68198.80	174.08	158.28	6.299e+05	1.661e+05	4.894e+05	3.066e+05	-2.131e+05
7	2	265	350.8054.51308.33	96.98	103.82	5.854e+05	2.739e+05	3.778e+05	4.815e+05	-1.469e+05
7	2	266	351.9665.46351.88	65.54	4.82	5.535e+05	3.306e+05	3.311e+05	5.530e+05	-1.073e+04
7	2	267	349.6959.00313.91	94.77	-95.50	5.771e+05	2.921e+05	3.730e+05	4.962e+05	1.285e+05
7	2	268	343.8035.71208.79	170.72	-152.86	6.238e+05	1.915e+05	4.831e+05	3.322e+05	2.025e+05
7	2	269	333.02-1.87 74.99	256.16	-140.83	6.577e+05	6.657e+04	6.046e+05	1.196e+05	1.689e+05
7	2	270	316.10-50.34-39.85	305.62	-61.09	6.679e+05	-6.834e+04	6.668e+05	-6.729e+04	2.776e+04

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-631.88	-631.81	-491.31	-291.98		-9.313e+05	-9.169e+05	-8.430e+05	-6.314e+05	
	489.55	489.45	411.03	290.56	8.771e+05		8.744e+05	7.400e+05	6.311e+05	

Macro	Tipo	Angolo 1-X (gradi)
8	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
8	1	241	428.67-98.56-85.39		415.49	82.30	8.958e+05	-2.659e+05	8.602e+05	-2.303e+05	-2.003e+05	
8	1	242	377.98-192.37-88.66		274.27	219.99	8.282e+05	-4.417e+05	6.053e+05	-2.188e+05	-4.830e+05	
8	1	243	314.72-284.59-26.39		56.52	296.77	7.272e+05	-6.040e+05	1.956e+05	-7.240e+04	-6.520e+05	
8	1	244	241.54-371.0256.89		-186.37	281.09	5.974e+05	-7.452e+05	-2.716e+05	1.238e+05	-6.415e+05	
8	1	245	162.05-448.26106.73		-392.94	175.22	4.450e+05	-8.590e+05	-6.767e+05	2.628e+05	-4.521e+05	



8	1	246	80.45-513.6280.07	-513.24	14.92	2.779e+05	-9.410e+05	-9.221e+05	2.591e+05	-1.505e+05	
8	1	247	1.64-565.51 -37.07	-526.80	-143.02	1.055e+05	-9.895e+05	-9.669e+05	8.291e+04	1.557e+05	
8	1	248	-69.07-603.55-222.79	-449.83	-241.93	-6.135e+04	-1.006e+06	-8.404e+05	-2.268e+05	3.590e+05	
8	1	249	-126.10 -628.56	-425.92	-328.74	-246.49	-2.089e+05	-9.959e+05	-6.285e+05	-5.763e+05	3.927e+05
8	1	250	-164.02 -642.33	-584.11	-222.24	-156.39	-3.179e+05	-9.732e+05	-4.399e+05	-8.511e+05	2.551e+05
8	1	251	-178.68 -646.91	-646.81	-178.78	-6.68	-3.633e+05	-9.591e+05	-3.635e+05	-9.589e+05	1.044e+04
8	1	252	-168.23 -643.26	-593.65	-217.84	145.27	-3.292e+05	-9.685e+05	-4.340e+05	-8.637e+05	-
2.367e+05											
8	1	253	-133.98 -630.63	-442.18	-322.43	241.00	-2.282e+05	-9.900e+05	-6.192e+05	-5.989e+05	-
3.808e+05											
8	1	254	-79.93-607.25-241.65	-445.53	243.15	-8.563e+04	-1.002e+06	-8.319e+05	-2.554e+05	-3.560e+05	
8	1	255	-11.26-571.24-54.45	-528.06	149.39	7.809e+04	-9.892e+05	-9.642e+05	5.313e+04	-1.613e+05	
8	1	256	66.50-521.6966.41	-521.60	-6.92	2.486e+05	-9.458e+05	-9.294e+05	2.322e+05	1.391e+05	
8	1	257	148.05-458.8596.43	-407.23	-169.30	4.149e+05	-8.699e+05	-6.960e+05	2.410e+05	4.395e+05	
8	1	258	228.51-384.1747.58	-203.25	-279.49	5.679e+05	-7.628e+05	-3.014e+05	1.064e+05	6.334e+05	
8	1	259	303.52-300.05-37.53	41.01	-299.22	6.999e+05	-6.285e+05	1.605e+05	-8.910e+04	6.523e+05	
8	1	260	369.40-209.73-103.27	262.94	-224.33	8.048e+05	-4.722e+05	5.729e+05	-2.403e+05	4.923e+05	
8	1	261	423.22-117.11-103.15	409.26	-85.71	8.784e+05	-3.010e+05	8.381e+05	-2.607e+05	2.142e+05	
8	1	262	463.10-26.66-18.45	454.88	62.89	9.182e+05	-1.231e+05	9.120e+05	-1.169e+05	-8.003e+04	
8	1	263	488.4656.51134.13	410.83	165.85	9.246e+05	5.193e+04	8.179e+05	1.586e+05	-2.859e+05	
8	1	264	500.60126.39308.56	318.44	187.04	9.022e+05	2.117e+05	6.350e+05	4.789e+05	-3.363e+05	
8	1	265	503.24175.71447.00	231.96	123.52	8.643e+05	3.373e+05	4.660e+05	7.356e+05	-2.264e+05	
8	1	266	502.02196.50501.89	196.64	6.50	8.405e+05	3.955e+05	3.960e+05	8.400e+05	-1.446e+04	
8	1	267	500.96183.91454.59	230.28	-112.03	8.584e+05	3.572e+05	4.593e+05	7.563e+05	2.019e+05	
8	1	268	498.10140.51322.49	316.11	-178.77	8.982e+05	2.428e+05	6.262e+05	5.147e+05	3.229e+05	
8	1	269	487.7173.93151.99	409.65	-161.88	9.269e+05	8.807e+04	8.142e+05	2.008e+05	2.861e+05	
8	1	270	465.25-7.95 0.64	456.66	-63.18	9.283e+05	-8.591e+04	9.201e+05	-7.773e+04	9.069e+04	
8	1	271	397.52-222.80-118.07	292.79	232.38	1.013e+06	-4.830e+05	7.192e+05	-1.896e+05	-5.940e+05	
8	1	272	337.53-311.88-35.52	61.17	321.08	8.657e+05	-7.067e+05	2.311e+05	-7.212e+04	-7.714e+05	
8	1	273	269.27-396.5272.12	-199.37	303.96	6.797e+05	-9.019e+05	-3.179e+05	9.565e+04	-7.633e+05	
8	1	274	195.97-473.38141.26	-418.67	183.38	4.633e+05	-1.060e+06	-8.039e+05	2.073e+05	-5.695e+05	
8	1	275	121.51-539.88121.51	-539.88	0.59	2.268e+05	-1.174e+06	-1.125e+06	1.778e+05	-2.574e+05	
8	1	276	50.37-594.27 -3.86	-540.03	-178.94	-1.841e+04	-1.240e+06	-1.236e+06	-2.184e+04	6.461e+04	
8	1	277	-12.69-635.82-209.98	-438.52	-289.85	-2.601e+05	-1.256e+06	-1.164e+06	-3.517e+05	2.879e+05	
8	1	278	-62.90-664.68-438.15	-289.42	-291.56	-4.840e+05	-1.226e+06	-9.932e+05	-7.169e+05	3.443e+05	
8	1	279	-95.98-681.61-616.71	-160.88	-183.83	-6.690e+05	-1.163e+06	-8.298e+05	-1.002e+06	2.314e+05	
8	1	280	-108.80 -687.58	-687.49	-108.90	-7.37	-7.617e+05	-1.114e+06	-7.622e+05	-1.114e+06	1.228e+04
8	1	281	-100.10 -683.00	-627.11	-155.99	171.63	-6.905e+05	-1.151e+06	-8.249e+05	-1.017e+06	-
2.094e+05											
8	1	282	-70.74-667.56-455.88	-282.42	285.53	-5.145e+05	-1.215e+06	-9.857e+05	-7.440e+05	-3.288e+05	
8	1	283	-23.49-640.50-230.35	-433.64	291.28	-2.954e+05	-1.250e+06	-1.158e+06	-3.871e+05	-2.814e+05	
8	1	284	37.61-601.01-22.23	-541.17	186.10	-5.691e+04	-1.240e+06	-1.236e+06	-6.075e+04	-6.730e+04	
8	1	285	107.92-548.85107.81	-548.74	8.43	1.863e+05	-1.182e+06	-1.135e+06	1.398e+05	2.480e+05	
8	1	286	182.69-484.64132.04	-433.99	-176.73	4.221e+05	-1.076e+06	-8.270e+05	1.729e+05	5.579e+05	
8	1	287	257.39-409.9164.87	-217.39	-302.33	6.394e+05	-9.269e+05	-3.524e+05	6.485e+04	7.548e+05	
8	1	288	327.90-327.06-44.07	44.91	-324.44	8.285e+05	-7.403e+05	1.904e+05	-1.023e+05	7.706e+05	
8	1	289	390.70-239.27-130.14	281.58	-238.40	9.810e+05	-5.244e+05	6.807e+05	-2.241e+05	6.016e+05	
8	1	290	443.03-150.36-139.38	432.06	-79.95	1.090e+06	-2.885e+05	1.017e+06	-2.151e+05	3.096e+05	



8	1	291	483.15-64.75-49.90	468.30	88.97	1.152e+06	-4.316e+04	1.152e+06	-4.316e+04	-1772.90	
8	1	292	510.5412.57119.29	403.81	204.34	1.164e+06	2.006e+05	1.108e+06	2.574e+05	-2.269e+05	
8	1	293	526.2175.98315.32	286.88	224.67	1.128e+06	4.307e+05	9.610e+05	5.977e+05	-2.976e+05	
8	1	294	532.81119.36471.65	180.53	146.79	1.051e+06	6.310e+05	8.142e+05	8.679e+05	-2.083e+05	
8	1	295	533.68137.08533.57	137.20	6.82	9.794e+05	7.508e+05	7.520e+05	9.781e+05	-1.686e+04	
8	1	296	531.04126.11479.56	177.59	-134.89	1.034e+06	6.664e+05	8.087e+05	8.920e+05	1.791e+05	
8	1	297	524.0187.95329.52	282.44	-216.75	1.118e+06	4.762e+05	9.545e+05	6.402e+05	2.800e+05	
8	1	298	509.3827.80136.93	400.25	-201.61	1.166e+06	2.504e+05	1.108e+06	3.088e+05	2.237e+05	
8	1	299	484.18-47.97-31.88	468.08	-91.14	1.165e+06	7077.27	1.165e+06	7160.67	9827.37	
8	1	300	446.87-133.29-123.56	437.14	74.48	1.114e+06	-2.413e+05	1.045e+06	-1.723e+05	-2.978e+05	
8	2	241	317.00-83.55-68.51	301.96	76.13	6.817e+05	-2.077e+05	6.497e+05	-1.756e+05	-1.658e+05	
8	2	242	280.10-157.80-66.46	188.75	177.93	6.310e+05	-3.441e+05	4.494e+05	-1.625e+05	-3.796e+05	
8	2	243	233.36-230.67-16.05	18.75	231.36	5.545e+05	-4.701e+05	1.319e+05	-4.762e+04	-5.044e+05	
8	2	244	178.92-299.0148.01	-168.09	213.14	4.557e+05	-5.798e+05	-2.274e+05	1.033e+05	-4.906e+05	
8	2	245	119.63-360.2783.84	-324.48	126.08	3.396e+05	-6.685e+05	-5.368e+05	2.079e+05	-3.398e+05	
8	2	246	58.76-412.4558.76	-412.44	-1.35	2.124e+05	-7.329e+05	-7.214e+05	2.008e+05	-1.040e+05	
8	2	247	9.65e-02 -454.32	-37.21	-417.01	-124.75	8.132e+04	-7.718e+05	-7.504e+05	5.997e+04	1.333e+05
8	2	248	-52.33-485.55-186.19	-351.68	-200.18	-4.514e+04	-7.862e+05	-6.475e+05	-1.839e+05	2.891e+05	
8	2	249	-94.38-506.60-347.78	-253.20	-200.61	-1.563e+05	-7.810e+05	-4.796e+05	-4.576e+05	3.122e+05	
8	2	250	-122.18 -518.56	-473.09	-167.66	-126.32	-2.376e+05	-7.660e+05	-3.312e+05	-6.723e+05	2.018e+05
8	2	251	-132.88 -522.67	-522.60	-132.95	-5.14	-2.711e+05	-7.566e+05	-2.712e+05	-7.565e+05	8028.02
8	2	252	-125.23 -519.48	-480.43	-164.28	117.77	-2.460e+05	-7.627e+05	-3.267e+05	-6.820e+05	-
1.876e+05											
8	2	253	-100.11 -508.54	-360.29	-248.36	196.39	-1.707e+05	-7.768e+05	-4.724e+05	-4.750e+05	-
3.030e+05											
8	2	254	-60.29-488.80-200.70	-348.38	201.13	-6.352e+04	-7.834e+05	-6.410e+05	-2.059e+05	-2.868e+05	
8	2	255	-9.43-459.13-50.57	-417.99	129.64	6.046e+04	-7.718e+05	-7.484e+05	3.706e+04	-1.376e+05	
8	2	256	48.38-419.0148.26	-418.89	7.50	1.901e+05	-7.368e+05	-7.270e+05	1.802e+05	9.519e+04	
8	2	257	109.14-368.7075.92	-335.48	-121.53	3.167e+05	-6.771e+05	-5.516e+05	1.912e+05	3.301e+05	
8	2	258	169.10-309.3240.85	-181.07	-211.92	4.332e+05	-5.936e+05	-2.503e+05	8.990e+04	4.844e+05	
8	2	259	224.87-242.68-24.62	6.81	-233.25	5.336e+05	-4.891e+05	1.049e+05	-6.048e+04	5.046e+05	
8	2	260	273.58-171.24-77.70	180.04	-181.27	6.132e+05	-3.678e+05	4.245e+05	-1.791e+05	3.867e+05	
8	2	261	312.87-97.88-82.18	297.17	-78.76	6.686e+05	-2.349e+05	6.327e+05	-1.990e+05	1.765e+05	
8	2	262	341.23-25.99-22.88	338.12	33.64	6.978e+05	-9.664e+04	6.949e+05	-9.372e+04	-4.805e+04	
8	2	263	358.1140.61 88.36	310.36	113.49	7.009e+05	3.977e+04	6.281e+05	1.126e+05	-2.070e+05	
8	2	264	364.4997.34217.20	244.62	132.87	6.813e+05	1.652e+05	4.923e+05	3.541e+05	-2.486e+05	
8	2	265	363.61138.18320.07	181.72	89.00	6.487e+05	2.651e+05	3.656e+05	5.482e+05	-1.687e+05	
8	2	266	361.13155.71361.01	155.83	5.00	6.277e+05	3.126e+05	3.130e+05	6.273e+05	-1.112e+04	
8	2	267	361.41144.93325.92	180.43	-80.15	6.434e+05	2.812e+05	3.605e+05	5.641e+05	1.498e+05	
8	2	268	362.10108.65227.92	242.83	-126.50	6.775e+05	1.897e+05	4.856e+05	3.816e+05	2.383e+05	
8	2	269	357.2554.30102.10	309.45	-110.44	7.023e+05	6.803e+04	6.253e+05	1.450e+05	2.071e+05	
8	2	270	342.76-11.47 -8.20	339.49	-33.87	7.052e+05	-6.771e+04	7.011e+05	-6.360e+04	5.625e+04	
8	2	271	294.55-180.60-87.70	201.66	188.44	7.688e+05	-3.813e+05	5.338e+05	-1.463e+05	-4.637e+05	
8	2	272	250.94-251.65-21.42	20.70	250.41	6.563e+05	-5.539e+05	1.564e+05	-5.403e+04	-5.958e+05	
8	2	273	200.85-319.1861.38	-179.71	230.39	5.136e+05	-7.045e+05	-2.659e+05	7.502e+04	-5.847e+05	
8	2	274	146.82-380.66111.77	-345.62	131.37	3.476e+05	-8.265e+05	-6.378e+05	1.589e+05	-4.312e+05	
8	2	275	91.85-434.1291.49	-433.75	-13.83	1.663e+05	-9.148e+05	-8.811e+05	1.326e+05	-1.879e+05	





8	2	276	39.37-478.20-11.47	-427.36	-154.04	-2.156e+04	-9.662e+05	-9.622e+05	-2.555e+04	6.130e+04
8	2	277	-7.05-512.25-176.85	-342.45	-238.64	-2.064e+05	-9.798e+05	-9.021e+05	-2.841e+05	2.325e+05
8	2	278	-43.89-536.23-358.30	-221.82	-236.53	-3.770e+05	-9.584e+05	-7.662e+05	-5.692e+05	2.735e+05
8	2	279	-68.08-550.51-499.68	-118.91	-148.11	-5.162e+05	-9.127e+05	-6.376e+05	-7.914e+05	1.827e+05
8	2	280	-77.44-555.62-555.55	-77.50	-5.66	-5.843e+05	-8.789e+05	-5.846e+05	-8.786e+05	9447.74
8	2	281	-71.07-551.76-507.68	-115.16	138.73	-5.322e+05	-9.044e+05	-6.338e+05	-8.028e+05	-1.658e+05
8	2	282	-49.61-538.76-371.93	-216.44	231.89	-4.001e+05	-9.504e+05	-7.604e+05	-5.901e+05	-2.616e+05
8	2	283	-14.96-516.25-192.51	-338.70	239.75	-2.334e+05	-9.754e+05	-8.974e+05	-3.114e+05	-2.276e+05
8	2	284	29.96-483.80-25.60	-428.24	159.56	-5.108e+04	-9.667e+05	-9.623e+05	-5.549e+04	-6.337e+04
8	2	285	81.78-441.4180.95	-440.59	20.76	1.352e+05	-9.211e+05	-8.892e+05	1.034e+05	1.806e+05
8	2	286	136.93-389.65104.69	-357.41	-126.25	3.160e+05	-8.391e+05	-6.556e+05	1.324e+05	4.223e+05
8	2	287	191.98-329.7555.81	-193.58	-229.14	4.827e+05	-7.238e+05	-2.925e+05	5.132e+04	5.782e+05
8	2	288	243.74-263.55-28.00	8.19	-253.00	6.277e+05	-5.798e+05	1.251e+05	-7.727e+04	5.952e+05
8	2	289	289.49-193.46-96.99	193.03	-193.08	7.446e+05	-4.133e+05	5.042e+05	-1.729e+05	4.696e+05
8	2	290	327.05-122.36-109.20	313.88	-75.79	8.282e+05	-2.314e+05	7.665e+05	-1.696e+05	2.483e+05
8	2	291	355.02-53.63-46.89	348.28	52.04	8.752e+05	-4.208e+04	8.751e+05	-4.196e+04	1.024e+04
8	2	292	373.018.93 76.44	305.50	141.50	8.838e+05	1.462e+05	8.456e+05	1.844e+05	-1.634e+05
8	2	293	381.9560.82221.29	221.48	160.57	8.546e+05	3.244e+05	7.370e+05	4.420e+05	-2.202e+05
8	2	294	384.3896.84337.51	143.71	106.21	7.928e+05	4.812e+05	6.270e+05	6.470e+05	-1.555e+05
8	2	295	383.82111.70383.72	111.80	5.24	7.319e+05	5.790e+05	5.802e+05	7.307e+05	-1.297e+04
8	2	296	382.66102.40343.61	141.45	-97.05	7.789e+05	5.094e+05	6.227e+05	6.655e+05	1.330e+05
8	2	297	379.7970.51232.22	218.07	-154.48	8.469e+05	3.599e+05	7.321e+05	4.747e+05	2.067e+05
8	2	298	371.7321.04 90.01	302.76	-139.40	8.848e+05	1.847e+05	8.456e+05	2.239e+05	1.609e+05
8	2	299	355.54-40.44-33.02	348.11	-53.71	8.851e+05	-3258.16	8.851e+05	-3239.77	-4042.29
8	2	300	329.79-109.03-97.02	317.79	71.57	8.461e+05	-1.949e+05	7.879e+05	-1.367e+05	-2.392e+05

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-687.58	-687.49	-548.74	-324.44		-1.256e+06	-1.236e+06	-1.114e+06	-7.714e+05	
	533.68	533.57	468.30	321.08	1.166e+06		1.165e+06	9.781e+05	7.706e+05	

Macro	Tipo	Angolo 1-X (gradi)
9	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	
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N	
9	1	271	415.10	-206.94	-90.61	298.77	242.54	1.039e+06	-4.889e+05	7.506e+05	-2.005e+05	-5.979e+05	
9	1	272	343.64	-310.28	-28.57	61.92	323.82	8.849e+05	-7.202e+05	2.400e+05	-7.523e+04	-7.869e+05	
9	1	273	260.35	-406.39	55.54	-201.57	307.59	6.920e+05	-9.237e+05	-3.357e+05	1.040e+05	-7.773e+05	
9	1	274	169.23	-491.41	104.70	-426.89	196.12	4.693e+05	-1.090e+06	-8.434e+05	2.224e+05	-5.693e+05	
9	1	275	75.02	-562.42	73.88	-561.28	26.95	2.276e+05	-1.213e+06	-1.173e+06	1.881e+05	-2.354e+05	
9	1	276	-16.79	-617.64	-51.60	-582.84	-140.37	-2.099e+04	-1.288e+06	-1.279e+06	-3.009e+04	1.070e+05	
9	1	277	-100.07	-656.77	-248.66	-248.66	-508.19	-246.25	-2.632e+05	-1.314e+06	-1.188e+06	-3.887e+05	3.407e+05
9	1	278	-168.14	-681.13	-463.55	-463.55	-385.72	-253.53	-4.830e+05	-1.295e+06	-9.933e+05	-7.851e+05	3.926e+05
9	1	279	-214.11	-693.51	-630.77	-630.77	-276.86	-161.69	-6.559e+05	-1.249e+06	-8.106e+05	-1.094e+06	2.603e+05



9	1	280	-232.16	-697.28	-697.16	-232.28	-7.43	-7.350e+05	-1.216e+06	-7.354e+05	-1.215e+06	1.259e+04	
2.379e+05	9	1	281	-219.60	-694.12	-641.29	-272.43	149.26	-6.750e+05	-1.240e+06	-8.052e+05	-1.110e+06	-
3.772e+05	9	1	282	-178.30	-682.84	-481.63	-379.51	247.05	-5.124e+05	-1.286e+06	-9.852e+05	-8.133e+05	-
3.350e+05	9	1	283	-113.67	-660.40	-269.79	-504.28	246.95	-2.983e+05	-1.309e+06	-1.182e+06	-4.254e+05	-
	9	1	284	-32.49	-623.81	-71.37	-584.93	146.56	-5.981e+04	-1.289e+06	-1.279e+06	-6.990e+04	-1.109e+05
	9	1	285	58.51	-571.50	57.93	-570.93	-18.99	1.865e+05	-1.222e+06	-1.185e+06	1.497e+05	2.246e+05
	9	1	286	153.11	-503.52	92.31	-442.72	-190.33	4.271e+05	-1.108e+06	-8.688e+05	1.882e+05	5.564e+05
	9	1	287	245.73	-421.39	44.26	-219.91	-306.30	6.505e+05	-9.501e+05	-3.735e+05	7.388e+04	7.684e+05
	9	1	288	331.41	-327.76	-41.67	45.32	-326.71	8.462e+05	-7.554e+05	1.956e+05	-1.048e+05	7.866e+05
	9	1	289	405.96	-226.28	-107.17	286.84	-247.23	1.006e+06	-5.319e+05	7.087e+05	-2.350e+05	6.070e+05
	9	1	290	466.03	-121.30	-103.61	448.34	-100.38	1.122e+06	-2.894e+05	1.057e+06	-2.243e+05	2.961e+05
	9	1	291	509.45	-17.82	-11.51	503.14	57.34	1.190e+06	-3.878e+04	1.189e+06	-3.782e+04	-3.426e+04
	9	1	292	535.53	78.43	151.42	462.54	167.44	1.209e+06	2.081e+05	1.130e+06	2.873e+05	-2.703e+05
	9	1	293	545.78	160.61	336.70	369.69	191.88	1.181e+06	4.374e+05	9.637e+05	6.552e+05	-3.385e+05
	9	1	294	545.07	219.79	483.42	281.44	127.48	1.118e+06	6.290e+05	8.000e+05	9.470e+05	-2.332e+05
	9	1	295	541.73	245.04	541.57	245.21	6.90	1.067e+06	7.303e+05	7.312e+05	1.066e+06	-1.724e+04
	9	1	296	542.09	229.09	491.51	279.66	-115.20	1.106e+06	6.611e+05	7.942e+05	9.724e+05	2.036e+05
	9	1	297	542.55	176.22	351.53	367.23	-183.00	1.174e+06	4.823e+05	9.569e+05	6.997e+05	3.213e+05
	9	1	298	534.34	97.44	170.54	461.25	-163.07	1.213e+06	2.584e+05	1.130e+06	3.410e+05	2.684e+05
	9	1	299	511.50	2.56	9.13	504.92	-57.46	1.205e+06	1.267e+04	1.204e+06	1.432e+04	4.432e+04
	9	1	300	471.68	-100.92	-84.03	454.79	96.87	1.147e+06	-2.406e+05	1.087e+06	-1.806e+05	-2.822e+05
	9	1	301	533.28	-44.71	-29.87	518.44	-91.41	1.501e+06	1.148e+05	1.499e+06	1.170e+05	-5.535e+04
	9	1	302	492.94	-142.15	-129.95	480.74	87.16	1.415e+06	-2.152e+05	1.309e+06	-1.096e+05	-4.013e+05
	9	1	303	438.28	-243.27	-126.06	321.06	257.20	1.263e+06	-5.397e+05	8.875e+05	-1.639e+05	-7.323e+05
	9	1	304	370.88	-342.96	-39.65	67.57	352.87	1.053e+06	-8.435e+05	2.830e+05	-7.370e+04	-9.312e+05
	9	1	305	293.45	-436.84	73.74	-217.13	334.93	7.927e+05	-1.113e+06	-3.908e+05	7.099e+04	-9.242e+05
	9	1	306	209.60	-521.25	146.13	-457.78	205.81	4.955e+05	-1.335e+06	-9.953e+05	1.561e+05	-7.113e+05
	9	1	307	123.73	-593.37	123.60	-593.24	9.57	1.746e+05	-1.500e+06	-1.416e+06	9.071e+04	-3.654e+05
	9	1	308	40.96	-651.40	-11.80	-598.64	-183.71	-1.551e+05	-1.602e+06	-1.602e+06	-1.552e+05	-4535.50
	9	1	309	-33.10	-694.77	-233.46	-494.41	-304.02	-4.789e+05	-1.636e+06	-1.578e+06	-5.371e+05	2.529e+05
	9	1	310	-92.65	-724.06	-478.51	-338.21	-307.82	-7.816e+05	-1.603e+06	-1.433e+06	-9.513e+05	3.325e+05
	9	1	311	-132.28	-740.73	-670.24	-202.78	-194.73	-1.046e+06	-1.507e+06	-1.281e+06	-1.272e+06	2.307e+05
	9	1	312	-147.84	-746.43	-746.32	-147.96	-8.20	-1.216e+06	-1.399e+06	-1.217e+06	-1.398e+06	1.480e+04
2.038e+05	9	1	313	-137.56	-741.98	-681.75	-197.79	181.05	-1.080e+06	-1.488e+06	-1.277e+06	-1.290e+06	-
3.127e+05	9	1	314	-102.56	-726.86	-498.26	-331.16	300.76	-8.230e+05	-1.589e+06	-1.427e+06	-9.849e+05	-
	9	1	315	-46.48	-699.64	-256.33	-489.79	305.00	-5.257e+05	-1.631e+06	-1.574e+06	-5.820e+05	-2.429e+05
	9	1	316	25.48	-658.76	-32.73	-600.55	190.89	-2.060e+05	-1.606e+06	-1.606e+06	-2.060e+05	4259.14
	9	1	317	107.63	-603.45	107.63	-603.45	-0.34	1.209e+05	-1.514e+06	-1.432e+06	3.879e+04	3.571e+05
	9	1	318	194.28	-534.03	3135.05	-474.81	-199.07	4.404e+05	-1.359e+06	-1.025e+06	1.065e+05	6.996e+05
	9	1	319	280.13	-452.04	64.94	-236.85	-333.54	7.384e+05	-1.148e+06	-4.340e+05	2.446e+04	9.149e+05
	9	1	320	360.43	-360.04	-49.63	50.03	-356.77	1.002e+06	-8.897e+05	2.320e+05	-1.197e+05	9.293e+05
	9	1	321	431.17	-261.54	-139.56	309.19	-263.85	1.220e+06	-5.954e+05	8.383e+05	-2.142e+05	7.393e+05
	9	1	322	489.22	-160.84	-147.21	475.60	-93.12	1.382e+06	-2.781e+05	1.272e+06	-1.682e+05	4.127e+05



9	1	323	532.64-62.92-49.29	519.01	89.06	1.482e+06	4.862e+04	1.479e+06	5.133e+04	6.223e+04	
9	1	324	560.9426.47133.71	453.70	214.05	1.515e+06	3.705e+05	1.480e+06	4.054e+05	-1.967e+05	
9	1	325	575.62100.66345.04	331.24	237.38	1.481e+06	6.737e+05	1.358e+06	7.963e+05	-2.897e+05	
9	1	326	580.36152.01513.35	219.03	155.61	1.381e+06	9.446e+05	1.222e+06	1.104e+06	-2.101e+05	
9	1	327	580.13173.00579.99	173.13	7.32	1.235e+06	1.158e+06	1.163e+06	1.229e+06	-2.018e+04	
9	1	328	578.13159.48521.87	215.74	-142.79	1.355e+06	9.957e+05	1.218e+06	1.133e+06	1.748e+05	
9	1	329	572.79113.75360.27	326.26	-228.89	1.470e+06	7.338e+05	1.354e+06	8.489e+05	2.673e+05	
9	1	330	559.2342.99152.62	449.60	-211.13	1.519e+06	4.358e+05	1.485e+06	4.704e+05	1.906e+05	
9	2	271	307.47-170.53-68.84	205.77	195.62	7.882e+05	-3.862e+05	5.561e+05	-1.540e+05	-4.677e+05	
9	2	272	254.29-251.83-18.51	20.97	252.29	6.705e+05	-5.648e+05	1.610e+05	-5.542e+04	-6.081e+05	
9	2	273	191.97-327.4946.19	-181.72	233.40	5.228e+05	-7.221e+05	-2.818e+05	8.248e+04	-5.952e+05	
9	2	274	123.64-394.6781.40	-352.43	141.81	3.522e+05	-8.510e+05	-6.701e+05	1.713e+05	-4.301e+05	
9	2	275	53.04-451.1552.93	-451.05	7.39	1.672e+05	-9.463e+05	-9.199e+05	1.407e+05	-1.696e+05	
9	2	276	-15.59-495.62-49.68	-461.54	-123.29	-2.294e+04	-1.005e+06	-9.955e+05	-3.232e+04	9.551e+04	
9	2	277	-77.57-527.81-207.63	-397.75	-204.07	-2.078e+05	-1.026e+06	-9.204e+05	-3.137e+05	2.748e+05	
9	2	278	-127.89 -548.58	-378.48	-297.99	-206.46	-3.746e+05	-1.014e+06	-7.657e+05	-6.234e+05	3.119e+05
9	2	279	-161.63 -559.74	-510.87	-210.49	-130.63	-5.044e+05	-9.819e+05	-6.219e+05	-8.644e+05	2.057e+05
9	2	280	-174.79 -563.36	-563.27	-174.87	-5.72	-5.627e+05	-9.591e+05	-5.629e+05	-9.589e+05	9687.08
9	2	281	-165.60 -560.46	-518.97	-207.09	121.08	-5.186e+05	-9.755e+05	-6.178e+05	-8.763e+05	-
1.884e+05											
9	2	282	-135.31 -550.30	-392.38	-293.22	201.49	-3.968e+05	-1.008e+06	-7.595e+05	-6.451e+05	-
3.000e+05											
9	2	283	-87.59-531.05-223.89	-394.75	204.61	-2.346e+05	-1.023e+06	-9.154e+05	-3.419e+05	-2.703e+05	
9	2	284	-27.26-500.78-64.88	-463.16	128.05	-5.266e+04	-1.006e+06	-9.958e+05	-6.295e+04	-9.852e+04	
9	2	285	40.68-458.4840.67	-458.48	-1.27	1.356e+05	-9.533e+05	-9.289e+05	1.112e+05	1.612e+05	
9	2	286	111.50-404.2471.88	-364.61	-137.36	3.199e+05	-8.645e+05	-6.896e+05	1.450e+05	4.202e+05	
9	2	287	180.90-339.2137.51	-195.82	-232.41	4.909e+05	-7.425e+05	-3.109e+05	5.926e+04	5.883e+05	
9	2	288	244.99-265.37-28.58	8.20	-254.52	6.408e+05	-5.921e+05	1.269e+05	-7.820e+04	6.078e+05	
9	2	289	300.48-185.47-81.57	196.59	-199.23	7.627e+05	-4.195e+05	5.238e+05	-1.806e+05	4.747e+05	
9	2	290	344.73-102.74-83.60	325.58	-90.56	8.514e+05	-2.322e+05	7.956e+05	-1.764e+05	2.393e+05	
9	2	291	375.93-20.94-18.84	373.83	28.79	9.032e+05	-3.847e+04	9.030e+05	-3.828e+04	-1.312e+04	
9	2	292	393.4055.69100.12	348.96	114.15	9.166e+05	1.526e+05	8.630e+05	2.063e+05	-1.952e+05	
9	2	293	398.17122.01237.09	283.09	136.15	8.932e+05	3.309e+05	7.396e+05	4.845e+05	-2.505e+05	
9	2	294	394.27170.89346.19	218.97	91.80	8.409e+05	4.818e+05	6.170e+05	7.058e+05	-1.740e+05	
9	2	295	389.74192.28389.59	192.42	5.30	7.968e+05	5.644e+05	5.652e+05	7.960e+05	-1.327e+04	
9	2	296	391.44178.59352.42	217.60	-82.35	8.303e+05	5.075e+05	6.125e+05	7.253e+05	1.512e+05	
9	2	297	395.20134.50248.51	281.19	-129.32	8.872e+05	3.660e+05	7.344e+05	5.188e+05	2.372e+05	
9	2	298	392.2270.58114.83	347.97	-110.79	9.190e+05	1.917e+05	8.631e+05	2.476e+05	1.938e+05	
9	2	299	377.39-5.15 -2.96	375.20	-28.88	9.144e+05	1364.03	9.140e+05	1840.93	2.086e+04	
9	2	300	349.03-87.01-68.53	330.54	87.85	8.706e+05	-1.944e+05	8.190e+05	-1.428e+05	-2.286e+05	
9	2	301	392.01-39.37-32.75	385.39	-53.02	1.138e+06	7.231e+04	1.136e+06	7.500e+04	-5.349e+04	
9	2	302	363.96-117.30-102.86	349.51	82.11	1.072e+06	-1.817e+05	9.855e+05	-9.500e+04	-3.182e+05	
9	2	303	324.60-197.78-94.49	221.31	208.06	9.557e+05	-4.314e+05	6.576e+05	-1.333e+05	-5.698e+05	
9	2	304	275.26-276.97-25.08	23.38	275.05	7.939e+05	-6.653e+05	1.908e+05	-6.213e+04	-7.186e+05	
9	2	305	218.11-351.5962.14	-195.62	254.02	5.941e+05	-8.724e+05	-3.275e+05	4.916e+04	-7.087e+05	
9	2	306	155.97-418.88114.88	-377.80	148.09	3.656e+05	-1.044e+06	-7.907e+05	1.128e+05	-5.407e+05	
9	2	307	92.28-476.7292.18	-476.62	-7.70	1.190e+05	-1.171e+06	-1.111e+06	5.909e+04	-2.715e+05	



9	2	308	30.97-523.72-18.86	-473.90	-158.61	-1.343e+05	-1.250e+06	-1.250e+06	-1.344e+05	7426.67	
9	2	309	-23.73-559.35-196.55	-386.53	-250.40	-3.829e+05	-1.276e+06	-1.227e+06	-4.327e+05	2.050e+05	
9	2	310	-67.54-583.89-391.31	-260.11	-249.70	-6.149e+05	-1.252e+06	-1.111e+06	-7.553e+05	2.639e+05	
9	2	311	-96.57-598.16-543.04	-151.68	-156.87	-8.163e+05	-1.180e+06	-9.919e+05	-1.005e+06	1.819e+05	
9	2	312	-107.93 -603.16	-603.08	-108.01	-6.31	-9.407e+05	-1.103e+06	-9.415e+05	-1.103e+06	1.139e+04
9	2	313	-100.41 -599.34	-551.90	-147.85	146.35	-8.417e+05	-1.166e+06	-9.887e+05	-1.019e+06	-
1.612e+05											
9	2	314	-74.80-586.40-406.50	-254.70	244.28	-6.467e+05	-1.241e+06	-1.107e+06	-7.811e+05	-2.487e+05	
9	2	315	-33.59-563.53-214.14	-382.98	251.16	-4.189e+05	-1.272e+06	-1.224e+06	-4.672e+05	-1.973e+05	
9	2	316	19.50-529.82-34.94	-475.38	164.14	-1.735e+05	-1.252e+06	-1.252e+06	-1.735e+05	-7637.00	
9	2	317	80.28-484.8779.90	-484.48	14.80	7.770e+04	-1.182e+06	-1.123e+06	1.913e+04	2.652e+05	
9	2	318	144.51-429.05106.36	-390.90	-142.91	3.232e+05	-1.062e+06	-8.136e+05	7.460e+04	5.317e+05	
9	2	319	208.12-363.5455.37	-210.80	-252.95	5.523e+05	-8.997e+05	-3.608e+05	1.336e+04	7.015e+05	
9	2	320	267.44-290.32-32.76	9.88	-278.06	7.549e+05	-7.009e+05	1.515e+05	-9.752e+04	7.171e+05	
9	2	321	319.32-212.02-104.88	212.18	-213.19	9.221e+05	-4.744e+05	6.198e+05	-1.721e+05	5.752e+05	
9	2	322	361.30-131.88-116.14	345.56	-86.69	1.047e+06	-2.302e+05	9.567e+05	-1.401e+05	3.269e+05	
9	2	323	391.80-53.66-47.69	385.83	51.21	1.123e+06	2.129e+04	1.120e+06	2.443e+04	5.878e+04	
9	2	324	410.3918.28 85.88	342.79	148.11	1.149e+06	2.691e+05	1.126e+06	2.923e+05	-1.409e+05	
9	2	325	418.3178.72242.18	254.85	169.68	1.123e+06	5.026e+05	1.036e+06	5.890e+05	-2.147e+05	
9	2	326	418.93121.25367.40	172.78	112.63	1.045e+06	7.117e+05	9.342e+05	8.226e+05	-1.571e+05	
9	2	327	417.28138.86417.17	138.98	5.63	9.250e+05	8.829e+05	8.897e+05	9.182e+05	-1.553e+04	
9	2	328	416.80127.41373.96	170.25	-102.77	1.025e+06	7.512e+05	9.308e+05	8.453e+05	1.300e+05	
9	2	329	415.6189.31253.91	251.01	-163.14	1.114e+06	5.489e+05	1.033e+06	6.295e+05	1.975e+05	
9	2	330	408.6631.40100.44	339.62	-145.87	1.152e+06	3.194e+05	1.129e+06	3.423e+05	1.362e+05	

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-746.43	-746.32	-603.45	-356.77		-1.636e+06	-1.606e+06	-1.398e+06	-9.312e+05	
	580.36	579.99	519.01	352.87	1.519e+06		1.499e+06	1.229e+06	9.293e+05	

Macro	Tipo	Angolo 1-X (gradi)
10	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
10	1	301	569.1420.36	24.21	565.29	-45.80	1.552e+06	1.290e+05	1.552e+06	1.291e+05	-9329.58	
10	1	302	524.95-99.94-77.18		502.20	117.05	1.458e+06	-2.103e+05	1.366e+06	-1.186e+05	-3.801e+05	
10	1	303	460.43-221.91-89.14		327.65	270.13	1.298e+06	-5.453e+05	9.297e+05	-1.772e+05	-7.368e+05	
10	1	304	377.94-339.80-30.14		68.28	355.48	1.078e+06	-8.603e+05	2.949e+05	-7.764e+04	-9.509e+05	
10	1	305	281.10-448.5451.67		-219.11	338.76	8.076e+05	-1.141e+06	-4.146e+05	8.132e+04	-9.421e+05	
10	1	306	174.44-543.7497.38		-466.69	222.26	5.003e+05	-1.374e+06	-1.048e+06	1.744e+05	-7.104e+05	
10	1	307	63.34-622.0260.39		-619.06	44.90	1.702e+05	-1.550e+06	-1.482e+06	1.019e+05	-3.360e+05	
10	1	308	-45.98-681.29-74.42		-652.84	-131.38	-1.672e+05	-1.661e+06	-1.660e+06	-1.690e+05	5.161e+04	
10	1	309	-146.48 -721.21		-282.97	-584.72	-244.57	-4.960e+05	-1.705e+06	-1.612e+06	-5.894e+05	3.228e+05
10	1	310	-230.09 -743.69		-509.24	-464.54	-255.83	-7.987e+05	-1.682e+06	-1.436e+06	-1.045e+06	3.963e+05



10	1	311	-287.78	-753.08	-685.04	-355.82	-164.41	-1.051e+06	-1.606e+06	-1.259e+06	-1.398e+06	2.688e+05
10	1	312	-310.90	-755.12	-754.96	-311.06	-8.27	-1.184e+06	-1.537e+06	-1.185e+06	-1.536e+06	1.520e+04
10	1	313	-295.07	-753.06	-696.68	-351.45	150.47	-1.081e+06	-1.590e+06	-1.255e+06	-1.416e+06	-
2.414e+05												
10	1	314	-243.26	-744.69	-529.39	-458.56	248.20	-8.396e+05	-1.670e+06	-1.429e+06	-1.080e+06	-
3.765e+05												
10	1	315	-163.59	-724.57	-306.76	-581.40	244.58	-5.433e+05	-1.700e+06	-1.608e+06	-6.358e+05	-
3.137e+05												
10	1	316	-65.22	-687.89	-97.10	-656.01	137.25	-2.191e+05	-1.666e+06	-1.664e+06	-2.211e+05	-5.344e+04
10	1	317	43.59	-632.29	41.55	-630.25	-37.12	1.152e+05	-1.565e+06	-1.499e+06	4.945e+04	3.259e+05
10	1	318	155.57	-557.70	82.17	-484.31	-216.72	4.437e+05	-1.400e+06	-1.081e+06	1.250e+05	6.971e+05
10	1	319	264.31	-465.86	37.57	-239.13	-337.85	7.515e+05	-1.178e+06	-4.622e+05	3.555e+04	9.321e+05
10	1	320	364.14	-359.85	-46.13	50.42	-358.76	1.025e+06	-9.088e+05	2.390e+05	-1.229e+05	9.497e+05
10	1	321	450.24	-243.85	-108.55	314.94	-274.96	1.252e+06	-6.035e+05	8.758e+05	-2.276e+05	7.458e+05
10	1	322	518.74	-122.82	-99.38	495.31	-120.35	1.423e+06	-2.756e+05	1.325e+06	-1.785e+05	3.943e+05
10	1	323	566.99	-2.37	1.41	563.21	46.22	1.530e+06	6.061e+04	1.530e+06	6.085e+04	1.892e+04
10	1	324	593.97	111.11	175.14	529.94	163.76	1.570e+06	3.903e+05	1.512e+06	4.479e+05	-2.542e+05
10	1	325	601.20	209.98	371.15	440.03	192.56	1.542e+06	6.981e+05	1.364e+06	8.755e+05	-3.438e+05
10	1	326	594.73	283.51	525.90	352.34	129.17	1.452e+06	9.659e+05	1.206e+06	1.212e+06	-2.430e+05
10	1	327	587.42	315.86	587.22	316.06	7.39	1.350e+06	1.137e+06	1.139e+06	1.348e+06	-2.067e+04
10	1	328	590.59	294.62	534.61	350.59	-115.90	1.430e+06	1.014e+06	1.201e+06	1.243e+06	2.072e+05
10	1	329	596.96	227.86	387.13	437.69	-182.81	1.532e+06	7.586e+05	1.360e+06	9.310e+05	3.220e+05
10	1	330	592.36	132.41	195.90	528.87	-158.66	1.576e+06	4.571e+05	1.517e+06	5.161e+05	2.500e+05
10	1	331	616.36	71.27	174.88	512.76	-213.87	1.957e+06	6.539e+05	1.939e+06	6.717e+05	1.513e+05
10	1	332	590.05	-32.52	-20.62	578.14	-85.27	1.911e+06	2.453e+05	1.901e+06	2.559e+05	-1.323e+05
10	1	333	546.01	-146.01	-129.74	529.74	104.85	1.778e+06	-1.798e+05	1.627e+06	-2.836e+04	-5.230e+05
10	1	334	484.40	-262.33	-129.70	351.77	285.39	1.563e+06	-6.022e+05	1.089e+06	-1.288e+05	-8.949e+05
10	1	335	407.15	-375.76	-42.96	74.35	387.04	1.274e+06	-1.002e+06	3.453e+05	-7.360e+04	-1.119e+06
10	1	336	317.37	-481.43	72.20	-236.26	368.42	9.244e+05	-1.361e+06	-4.778e+05	4.094e+04	-1.113e+06
10	1	337	219.24	-575.30	144.42	-500.48	232.06	5.306e+05	-1.663e+06	-1.224e+06	9.179e+04	-8.775e+05
10	1	338	117.79	-654.17	117.03	-653.41	24.22	1.105e+05	-1.894e+06	-1.765e+06	-1.854e+04	-4.920e+05
10	1	339	18.97	-716.15	-28.83	-668.35	-181.26	-3.169e+05	-2.045e+06	-2.040e+06	-3.212e+05	-8.566e+04
10	1	340	-70.50	-760.85	-265.04	-566.31	-310.57	-7.328e+05	-2.108e+06	-2.075e+06	-7.663e+05	2.118e+05
10	1	341	-143.41	-789.52	-525.29	-407.65	-317.65	-1.119e+06	-2.083e+06	-1.963e+06	-1.239e+06	3.185e+05
10	1	342	-192.59	-804.80	-728.71	-268.69	-201.97	-1.459e+06	-1.969e+06	-1.826e+06	-1.603e+06	2.297e+05
10	1	343	-212.15	-809.69	-809.55	-212.29	-9.09	-1.735e+06	-1.776e+06	-1.766e+06	-1.745e+06	1.777e+04
10	1	344	-199.42	-805.74	-741.43	-263.72	186.69	-1.503e+06	-1.944e+06	-1.822e+06	-1.625e+06	-
1.970e+05												
10	1	345	-156.05	-791.99	-547.26	-400.77	309.42	-1.171e+06	-2.068e+06	-1.958e+06	-1.281e+06	-
2.935e+05												
10	1	346	-87.24	-765.73	-290.74	-562.23	310.90	-7.918e+05	-2.105e+06	-2.074e+06	-8.222e+05	-1.975e+05
10	1	347	8.14e-03	-724.11	-52.78	-671.32	188.24	-3.816e+05	-2.053e+06	-2.048e+06	-3.863e+05	8.843e+04
10	1	348	98.45	-665.51	98.16	-665.22	-15.00	4.159e+04	-1.915e+06	-1.787e+06	-8.718e+04	4.852e+05
10	1	349	201.22	-589.92	130.72	-519.42	-225.40	4.593e+05	-1.698e+06	-1.262e+06	2.385e+04	8.658e+05
10	1	350	302.05	-498.88	60.99	-257.82	-367.37	8.533e+05	-1.410e+06	-5.316e+05	-2.463e+04	1.103e+06
10	1	351	395.42	-395.24	-55.28	55.46	-391.43	1.207e+06	-1.064e+06	2.816e+05	-1.387e+05	1.116e+06
10	1	352	476.67	-282.96	-145.48	339.19	-292.46	1.504e+06	-6.753e+05	1.027e+06	-1.982e+05	9.012e+05
10	1	353	542.20	-166.92	-149.12	524.39	-110.94	1.733e+06	-2.613e+05	1.578e+06	-1.062e+05	5.340e+05



10	1	354	589.73-52.81-41.87	578.80	83.11	1.883e+06	1.603e+05	1.872e+06	1.714e+05	1.380e+05	
10	1	355	618.7652.77154.43	517.10	217.26	1.948e+06	5.711e+05	1.929e+06	5.901e+05	-1.606e+05	
10	1	356	631.23141.92379.82	393.33	244.56	1.927e+06	9.530e+05	1.838e+06	1.041e+06	-2.798e+05	
10	1	357	632.37204.87558.93	278.31	161.26	1.821e+06	1.288e+06	1.716e+06	1.393e+06	-2.118e+05	
10	1	358	630.00230.86629.84	231.02	7.88	1.666e+06	1.532e+06	1.661e+06	1.536e+06	-2.409e+04	
10	1	359	629.39213.54568.11	274.82	-147.40	1.792e+06	1.350e+06	1.713e+06	1.429e+06	1.693e+05	
10	1	360	627.47156.81396.23	388.06	-235.29	1.916e+06	1.028e+06	1.837e+06	1.106e+06	2.519e+05	
10	2	301	420.756.04 6.95	419.84	-19.44	1.176e+06	8.323e+04	1.175e+06	8.360e+04	-2.022e+04	
10	2	302	388.78-88.52-64.77	365.03	103.79	1.104e+06	-1.783e+05	1.027e+06	-1.017e+05	-3.038e+05	
10	2	303	340.86-184.06-69.05	225.85	217.12	9.811e+05	-4.364e+05	6.875e+05	-1.428e+05	-5.745e+05	
10	2	304	278.98-276.31-20.98	23.65	276.75	8.122e+05	-6.792e+05	1.970e+05	-6.395e+04	-7.342e+05	
10	2	305	206.02-361.4941.95	-197.42	257.28	6.049e+05	-8.954e+05	-3.488e+05	5.832e+04	-7.220e+05	
10	2	306	125.57-436.3374.42	-385.18	161.63	3.690e+05	-1.075e+06	-8.340e+05	1.277e+05	-5.388e+05	
10	2	307	41.85-498.2841.05	-497.48	20.79	1.156e+05	-1.211e+06	-1.163e+06	6.789e+04	-2.471e+05	
10	2	308	-40.29-545.82-68.93	-517.18	-116.86	-1.433e+05	-1.298e+06	-1.295e+06	-1.457e+05	5.274e+04	
10	2	309	-115.42 -578.71	-235.92	-458.21	-203.24	-3.952e+05	-1.332e+06	-1.253e+06	-4.745e+05	2.608e+05
10	2	310	-177.43 -598.31	-415.69	-360.05	-208.59	-6.263e+05	-1.316e+06	-1.113e+06	-8.297e+05	3.146e+05
10	2	311	-219.79 -607.54	-554.80	-272.53	-132.92	-8.170e+05	-1.261e+06	-9.737e+05	-1.104e+06	2.121e+05
10	2	312	-236.62 -610.07	-609.96	-236.73	-6.36	-9.151e+05	-1.212e+06	-9.156e+05	-1.212e+06	1.169e+04
10	2	313	-225.07 -607.86	-563.76	-269.17	122.21	-8.395e+05	-1.249e+06	-9.701e+05	-1.119e+06	-
1.910e+05											
10	2	314	-187.08 -599.56	-431.19	-355.45	202.73	-6.576e+05	-1.307e+06	-1.108e+06	-8.566e+05	-
2.994e+05											
10	2	315	-128.10 -581.77	-254.21	-455.66	203.24	-4.315e+05	-1.328e+06	-1.250e+06	-5.102e+05	-
2.538e+05											
10	2	316	-54.68-551.31-86.37	-519.62	121.37	-1.831e+05	-1.301e+06	-1.298e+06	-1.857e+05	-5.415e+04	
10	2	317	26.98-506.5026.56	-506.09	-14.80	7.335e+04	-1.222e+06	-1.177e+06	2.753e+04	2.393e+05	
10	2	318	111.28-447.2962.72	-398.74	-157.37	3.255e+05	-1.095e+06	-8.593e+05	8.972e+04	5.285e+05	
10	2	319	193.24-374.9631.10	-212.82	-256.59	5.618e+05	-9.241e+05	-3.854e+05	2.310e+04	7.143e+05	
10	2	320	268.42-291.80-33.29	9.90	-279.28	7.716e+05	-7.165e+05	1.539e+05	-9.880e+04	7.333e+05	
10	2	321	333.03-200.95-83.99	216.08	-220.85	9.458e+05	-4.813e+05	6.460e+05	-1.815e+05	5.814e+05	
10	2	322	384.00-106.12-81.85	359.73	-106.33	1.077e+06	-2.287e+05	9.959e+05	-1.478e+05	3.147e+05	
10	2	323	419.15-11.51-10.60	418.24	19.76	1.159e+06	3.043e+04	1.158e+06	3.111e+04	2.759e+04	
10	2	324	437.5078.19116.47	399.22	110.86	1.189e+06	2.847e+05	1.150e+06	3.234e+05	-1.831e+05	
10	2	325	439.93157.37261.53	335.77	136.32	1.166e+06	5.225e+05	1.041e+06	6.476e+05	-2.547e+05	
10	2	326	431.03217.86376.69	272.20	92.90	1.095e+06	7.310e+05	9.229e+05	9.029e+05	-1.816e+05	
10	2	327	422.67245.49422.49	245.67	5.68	1.009e+06	8.700e+05	8.719e+05	1.007e+06	-1.590e+04	
10	2	328	427.15227.10383.39	270.86	-82.70	1.077e+06	7.690e+05	9.191e+05	9.269e+05	1.540e+05	
10	2	329	436.18171.62273.83	333.97	-128.82	1.159e+06	5.694e+05	1.038e+06	6.903e+05	2.380e+05	
10	2	330	436.0694.78132.45	398.39	-106.94	1.194e+06	3.363e+05	1.154e+06	3.759e+05	1.798e+05	
10	2	331	451.3150.97115.60	386.69	-147.29	1.483e+06	4.784e+05	1.471e+06	4.898e+05	1.067e+05	
10	2	332	434.40-32.20-27.30	429.49	-47.58	1.447e+06	1.644e+05	1.437e+06	1.742e+05	-1.119e+05	
10	2	333	403.39-122.37-104.08	385.10	96.34	1.345e+06	-1.624e+05	1.223e+06	-4.039e+04	-4.111e+05	
10	2	334	358.54-214.39-98.45	242.60	230.18	1.179e+06	-4.873e+05	8.062e+05	-1.145e+05	-6.944e+05	
10	2	335	301.46-303.99-28.67	26.14	301.48	9.566e+05	-7.950e+05	2.320e+05	-7.032e+04	-8.626e+05	
10	2	336	234.67-387.5459.91	-212.79	279.63	6.877e+05	-1.071e+06	-4.012e+05	1.779e+04	-8.541e+05	
10	2	337	161.45-462.02112.40	-412.97	167.86	3.847e+05	-1.303e+06	-9.737e+05	5.518e+04	-6.690e+05	
10	2	338	85.75-525.0385.74	-525.01	2.95	6.150e+04	-1.481e+06	-1.387e+06	-3.284e+04	-3.696e+05	



10	2	339	12.16-575.12-33.62	-529.34	-157.45	-2.673e+05	-1.597e+06	-1.594e+06	-2.697e+05	-5.577e+04		
10	2	340	-54.23-611.94-222.81	-443.36	-256.12	-5.873e+05	-1.646e+06	-1.617e+06	-6.162e+05	1.726e+05		
10	2	341	-108.04	-636.27	-429.52	-314.79	-257.81	-8.844e+05	-1.626e+06	-1.527e+06	-9.838e+05	2.526e+05
10	2	342	-144.14	-649.76	-590.43	-203.47	-162.73	-1.146e+06	-1.539e+06	-1.419e+06	-1.266e+06	1.808e+05
10	2	343	-158.43	-654.28	-654.18	-158.53	-6.99	-1.360e+06	-1.388e+06	-1.372e+06	-1.376e+06	1.367e+04
10	2	344	-149.12	-650.75	-600.21	-199.66	150.98	-1.180e+06	-1.519e+06	-1.416e+06	-1.283e+06	-
1.557e+05												
10	2	345	-117.34	-638.60	-446.43	-309.51	251.48	-9.246e+05	-1.614e+06	-1.523e+06	-1.016e+06	-
2.333e+05												
10	2	346	-66.63-616.17-242.57	-440.23	256.38	-6.327e+05	-1.643e+06	-1.616e+06	-6.593e+05	-1.616e+05		
10	2	347	-1.99-581.69-52.04	-531.64	162.82	-3.171e+05	-1.603e+06	-1.600e+06	-3.197e+05	5.791e+04		
10	2	348	71.26-534.1371.23	-534.10	4.15	8426.51	-1.497e+06	-1.403e+06	-8.566e+04	3.644e+05		
10	2	349	147.90-473.57101.87	-427.55	-162.74	3.298e+05	-1.330e+06	-1.003e+06	2894.78	6.600e+05		
10	2	350	223.11-401.2051.30	-229.38	-278.83	6.330e+05	-1.108e+06	-4.426e+05	-3.268e+04	8.461e+05		
10	2	351	292.61-319.15-38.14	11.60	-304.87	9.048e+05	-8.422e+05	1.830e+05	-1.204e+05	8.603e+05		
10	2	352	352.74-230.41-110.59	232.92	-235.62	1.134e+06	-5.435e+05	7.580e+05	-1.679e+05	6.992e+05		
10	2	353	400.63-138.63-118.99	380.99	-101.03	1.310e+06	-2.252e+05	1.185e+06	-1.003e+05	4.196e+05		
10	2	354	434.41-48.07-43.66	430.00	45.92	1.425e+06	9.899e+04	1.415e+06	1.093e+05	1.162e+05		
10	2	355	453.5636.33 99.86	390.03	149.90	1.476e+06	4.147e+05	1.463e+06	4.271e+05	-1.138e+05		
10	2	356	459.55108.51266.71	301.35	174.66	1.460e+06	7.080e+05	1.397e+06	7.706e+05	-2.076e+05		
10	2	357	456.88160.48400.06	217.30	116.68	1.380e+06	9.645e+05	1.306e+06	1.038e+06	-1.588e+05		
10	2	358	453.18182.35453.04	182.48	6.06	1.267e+06	1.145e+06	1.264e+06	1.148e+06	-1.853e+04		
10	2	359	454.07167.67407.13	214.61	-106.02	1.358e+06	1.012e+06	1.303e+06	1.066e+06	1.261e+05		
10	2	360	456.09120.54279.34	297.29	-167.53	1.451e+06	7.656e+05	1.396e+06	8.206e+05	1.862e+05		

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-809.69	-809.55	-671.32	-391.43		-2.108e+06	-2.075e+06	-1.745e+06	-1.119e+06	
	632.37	629.84	578.80	387.04	1.957e+06		1.939e+06	1.536e+06	1.116e+06	

Macro	Tipo	Angolo 1-X (gradi)
11	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
11	1	331	656.78168.04222.95		601.86	-154.35	2.015e+06	6.887e+05	1.978e+06	7.260e+05	2.193e+05	
11	1	332	632.5738.00 39.89		630.68	-33.47	1.966e+06	2.678e+05	1.962e+06	2.715e+05	-7.933e+04	
11	1	333	583.18-99.99-70.48		553.68	138.88	1.826e+06	-1.706e+05	1.693e+06	-3.733e+04	-4.984e+05	
11	1	334	509.78-238.87-88.13		359.04	300.21	1.602e+06	-6.069e+05	1.138e+06	-1.433e+05	-8.995e+05	
11	1	335	415.31-372.37-32.21		75.15	390.16	1.302e+06	-1.021e+06	3.592e+05	-7.800e+04	-1.141e+06	
11	1	336	303.92-494.7847.45		-238.31	372.91	9.404e+05	-1.393e+06	-5.052e+05	5.221e+04	-1.133e+06	
11	1	337	180.80-601.2489.73		-510.17	250.85	5.337e+05	-1.707e+06	-1.285e+06	1.116e+05	-8.763e+05	
11	1	338	51.84-687.7346.19		-682.08	64.37	1.007e+05	-1.949e+06	-1.841e+06	-7409.35	-4.582e+05	
11	1	339	-76.00-751.74-98.76		-728.98	-121.90	-3.388e+05	-2.108e+06	-2.108e+06	-3.391e+05	-2.144e+04	
11	1	340	-194.87	-792.75	-319.92	-667.69	-243.16	-7.654e+05	-2.178e+06	-2.115e+06	-8.284e+05	2.917e+05
11	1	341	-295.46	-813.02	-558.78	-549.70	-258.74	-1.160e+06	-2.158e+06	-1.968e+06	-1.349e+06	3.914e+05



11	1	342	-366.48	-818.49	-744.09	-440.89	-167.62	-1.501e+06	-2.050e+06	-1.803e+06	-1.749e+06	2.732e+05
11	1	343	-395.64	-818.13	-817.93	-395.84	-9.17	-1.730e+06	-1.907e+06	-1.732e+06	-1.906e+06	1.821e+04
11	1	344	-375.91	-817.63	-756.96	-436.58	152.04	-1.545e+06	-2.026e+06	-1.799e+06	-1.772e+06	-
2.400e+05												
11	1	345	-312.03	-813.15	-581.21	-543.96	249.87	-1.213e+06	-2.142e+06	-1.963e+06	-1.392e+06	-
3.664e+05												
11	1	346	-215.82	-795.83	-346.64	-665.01	242.42	-8.259e+05	-2.174e+06	-2.114e+06	-8.861e+05	-
2.783e+05												
11	1	347	-99.04-758.91-124.63	-733.31	127.41	-4.052e+05	-2.117e+06	-2.116e+06	-4.055e+05	2.247e+04		
11	1	348	28.62-699.3924.17	-694.94	-56.76	2.994e+04	-1.971e+06	-1.864e+06	-7.667e+04	4.494e+05		
11	1	349	158.97-617.2771.44	-529.74	-245.53	4.603e+05	-1.743e+06	-1.327e+06	4.387e+04	8.627e+05		
11	1	350	284.82-514.6530.33	-260.17	-372.42	8.671e+05	-1.444e+06	-5.640e+05	-1.257e+04	1.122e+06		
11	1	351	399.83-395.15-51.26	55.93	-393.86	1.233e+06	-1.085e+06	2.898e+05	-1.423e+05	1.138e+06		
11	1	352	498.49-263.54-110.59	345.55	-305.21	1.541e+06	-6.831e+05	1.070e+06	-2.129e+05	9.081e+05		
11	1	353	576.36-125.43-95.45	546.37	-141.94	1.778e+06	-2.554e+05	1.640e+06	-1.167e+05	5.127e+05		
11	1	354	630.2812.88 14.81	628.35	34.47	1.935e+06	1.796e+05	1.931e+06	1.841e+05	8.817e+04		
11	1	355	658.79144.44200.44	602.78	160.22	2.005e+06	6.031e+05	1.967e+06	6.408e+05	-2.265e+05		
11	1	356	663.09261.00408.35	515.75	193.74	1.984e+06	9.969e+05	1.847e+06	1.134e+06	-3.418e+05		
11	1	357	649.84350.59572.00	428.43	131.28	1.875e+06	1.344e+06	1.700e+06	1.519e+06	-2.495e+05		
11	1	358	637.10391.74636.84	391.99	7.96	1.687e+06	1.623e+06	1.635e+06	1.676e+06	-2.463e+04		
11	1	359	644.23363.83581.39	426.67	-116.93	1.844e+06	1.409e+06	1.696e+06	1.557e+06	2.064e+05		
11	1	360	657.77281.24425.55	513.46	-183.06	1.974e+06	1.074e+06	1.845e+06	1.203e+06	3.145e+05		
11	1	361	687.31201.27434.90	453.68	-242.84	2.461e+06	1.362e+06	2.415e+06	1.409e+06	2.218e+05		
11	1	362	678.7499.90198.42	580.22	-217.54	2.481e+06	9.098e+05	2.475e+06	9.153e+05	9.296e+04		
11	1	363	651.70-20.88-11.42	642.24	-79.22	2.395e+06	4.047e+05	2.368e+06	4.318e+05	-2.305e+05		
11	1	364	603.35-151.24-130.41	582.51	123.65	2.202e+06	-1.283e+05	1.992e+06	8.138e+04	-6.668e+05		
11	1	365	534.09-283.59-134.40	384.90	315.80	1.908e+06	-6.642e+05	1.320e+06	-7.651e+04	-1.080e+06		
11	1	366	446.24-411.63-47.01	81.62	424.09	1.525e+06	-1.177e+06	4.166e+05	-6.927e+04	-1.329e+06		
11	1	367	343.41-530.0070.49	-257.09	404.83	1.069e+06	-1.643e+06	-5.760e+05	1520.83	-1.325e+06		
11	1	368	230.21-634.13142.89	-546.82	260.47	5.621e+05	-2.041e+06	-1.485e+06	5330.10	-1.067e+06		
11	1	369	112.34-720.49110.43	-718.58	39.84	2.751e+04	-2.354e+06	-2.165e+06	-1.608e+05	-6.426e+05		
11	1	370	-3.40-786.93-46.73	-743.59	-179.10	-5.105e+05	-2.567e+06	-2.549e+06	-5.282e+05	-1.900e+05		
11	1	371	-109.28 -833.15	-298.85	-643.58	-318.26	-1.028e+06	-2.674e+06	-2.660e+06	-1.041e+06	1.501e+05	
11	1	372	-196.64 -861.04	-575.81	-481.86	-328.86	-1.500e+06	-2.671e+06	-2.594e+06	-1.576e+06	2.890e+05	
11	1	373	-256.37 -874.53	-792.10	-338.79	-210.14	-1.900e+06	-2.565e+06	-2.482e+06	-1.983e+06	2.205e+05	
11	1	374	-280.43 -878.35	-878.18	-280.60	-10.04	-2.142e+06	-2.431e+06	-2.430e+06	-2.143e+06	2.108e+04	
11	1	375	-264.97 -875.07	-806.16	-333.88	193.12	-1.948e+06	-2.542e+06	-2.480e+06	-2.009e+06	-	
1.813e+05												
11	1	376	-212.33 -863.12	-600.23	-475.21	319.33	-1.561e+06	-2.657e+06	-2.593e+06	-1.626e+06	-	
2.579e+05												
11	1	377	-129.72 -838.07	-327.68	-640.11	317.86	-1.099e+06	-2.674e+06	-2.663e+06	-1.110e+06	-	
1.305e+05												
11	1	378	-26.16-795.61-74.02	-747.75	185.84	-5.901e+05	-2.582e+06	-2.563e+06	-6.098e+05	1.969e+05		
11	1	379	89.51-733.2788.37	-732.13	-30.61	-5.843e+04	-2.384e+06	-2.194e+06	-2.492e+05	6.382e+05		
11	1	380	209.26-650.79126.32	-567.85	-253.88	4.721e+05	-2.088e+06	-1.532e+06	-8.464e+04	1.056e+06		
11	1	381	325.91-549.8456.71	-280.64	-404.08	9.781e+05	-1.707e+06	-6.417e+05	-8.708e+04	1.314e+06		
11	1	382	433.16-433.61-61.72	61.28	-429.00	1.438e+06	-1.257e+06	3.383e+05	-1.575e+05	1.324e+06		
11	1	383	525.76-306.64-152.49	371.62	-323.34	1.831e+06	-7.576e+05	1.242e+06	-1.689e+05	1.085e+06		
11	1	384	599.51-174.37-151.91	577.06	-129.91	2.141e+06	-2.316e+05	1.928e+06	-1.933e+04	6.771e+05		





11	1	385	651.79-43.21-34.52	643.11	77.21	2.355e+06	2.981e+05	2.328e+06	3.252e+05	2.345e+05	
11	1	386	681.9179.43176.39	584.95	221.40	2.465e+06	8.075e+05	2.458e+06	8.144e+05	-1.062e+05	
11	1	387	692.12184.51417.25	459.37	252.93	2.469e+06	1.272e+06	2.411e+06	1.330e+06	-2.562e+05	
11	1	388	689.08260.19608.25	341.02	167.73	2.377e+06	1.662e+06	2.312e+06	1.727e+06	-2.064e+05	
11	1	389	684.05291.89683.87	292.08	8.52	2.267e+06	1.888e+06	2.264e+06	1.890e+06	-2.845e+04	
11	1	390	685.20270.20618.17	337.23	-152.73	2.352e+06	1.729e+06	2.311e+06	1.771e+06	1.557e+05	
11	2	331	484.65119.26151.15	452.75	-103.13	1.525e+06	5.052e+05	1.501e+06	5.299e+05	1.568e+05	
11	2	332	468.3316.92 17.12	468.14	-9.44	1.487e+06	1.813e+05	1.483e+06	1.854e+05	-7.354e+04	
11	2	333	432.11-90.99-61.30	402.42	121.03	1.380e+06	-1.560e+05	1.271e+06	-4.713e+04	-3.943e+05	
11	2	334	377.12-199.30-69.81	247.63	240.57	1.208e+06	-4.918e+05	8.408e+05	-1.248e+05	-6.993e+05	
11	2	335	305.81-303.35-24.02	26.48	303.53	9.773e+05	-8.104e+05	2.393e+05	-7.240e+04	-8.802e+05	
11	2	336	221.47-398.8637.25	-214.64	283.45	6.992e+05	-1.097e+06	-4.257e+05	2.776e+04	-8.690e+05	
11	2	337	128.19-482.1867.00	-420.99	183.32	3.865e+05	-1.339e+06	-1.024e+06	7.130e+04	-6.666e+05	
11	2	338	30.60-550.3128.44	-548.16	35.32	5.362e+04	-1.525e+06	-1.447e+06	-2.412e+04	-3.416e+05	
11	2	339	-65.87-601.42-89.54	-577.75	-110.07	-2.842e+05	-1.648e+06	-1.648e+06	-2.842e+05	-3974.30	
11	2	340	-155.09 -635.19	-266.45	-523.82	-202.64	-6.119e+05	-1.702e+06	-1.648e+06	-6.658e+05	2.363e+05
11	2	341	-229.91 -653.33	-456.09	-427.15	-211.21	-9.144e+05	-1.687e+06	-1.530e+06	-1.071e+06	3.104e+05
11	2	342	-282.09 -660.01	-602.64	-339.45	-135.60	-1.175e+06	-1.606e+06	-1.400e+06	-1.381e+06	2.153e+05
11	2	343	-303.24 -661.00	-660.86	-303.38	-7.05	-1.343e+06	-1.504e+06	-1.344e+06	-1.503e+06	1.401e+04
11	2	344	-288.91 -659.77	-612.54	-336.14	123.63	-1.208e+06	-1.588e+06	-1.397e+06	-1.399e+06	-
1.897e+05											
11	2	345	-242.09 -654.00	-473.34	-422.75	204.39	-9.553e+05	-1.675e+06	-1.527e+06	-1.104e+06	-
2.912e+05											
11	2	346	-170.69 -638.08	-287.00	-521.77	202.07	-6.585e+05	-1.699e+06	-1.647e+06	-7.102e+05	-
2.261e+05											
11	2	347	-83.19-607.34-109.44	-581.09	114.32	-3.354e+05	-1.654e+06	-1.654e+06	-3.354e+05	4768.88	
11	2	348	13.03-559.5811.51	-558.06	-29.46	-877.45	-1.542e+06	-1.465e+06	-7.742e+04	3.348e+05	
11	2	349	111.59-494.7152.94	-436.05	-179.23	3.300e+05	-1.366e+06	-1.056e+06	1.919e+04	6.562e+05	
11	2	350	206.88-414.2524.09	-231.46	-283.07	6.428e+05	-1.136e+06	-4.709e+05	-2.209e+04	8.605e+05	
11	2	351	293.93-320.91-38.68	11.70	-306.38	9.237e+05	-8.598e+05	1.859e+05	-1.219e+05	8.784e+05	
11	2	352	368.41-218.25-87.09	237.25	-244.42	1.161e+06	-5.505e+05	7.885e+05	-1.783e+05	7.060e+05	
11	2	353	426.81-110.52-80.51	396.80	-123.38	1.343e+06	-2.214e+05	1.230e+06	-1.082e+05	4.053e+05	
11	2	354	466.57-2.40 -2.18	466.35	10.20	1.464e+06	1.134e+05	1.459e+06	1.182e+05	8.034e+04	
11	2	355	486.34100.96133.83	453.46	107.65	1.517e+06	4.393e+05	1.492e+06	4.643e+05	-1.623e+05	
11	2	356	486.63193.64287.86	392.42	136.85	1.501e+06	7.423e+05	1.404e+06	8.394e+05	-2.535e+05	
11	2	357	472.04266.95409.74	329.26	94.32	1.417e+06	1.009e+06	1.294e+06	1.132e+06	-1.868e+05	
11	2	358	458.44302.41458.20	302.65	6.12	1.268e+06	1.229e+06	1.245e+06	1.252e+06	-1.895e+04	
11	2	359	466.86278.00416.96	327.90	-83.28	1.393e+06	1.060e+06	1.291e+06	1.161e+06	1.536e+05	
11	2	360	482.08209.67301.09	390.66	-128.63	1.493e+06	8.020e+05	1.403e+06	8.919e+05	2.326e+05	
11	2	361	500.38152.57306.63	346.33	-172.77	1.864e+06	1.012e+06	1.831e+06	1.045e+06	1.640e+05	
11	2	362	497.8070.59131.52	436.87	-149.38	1.878e+06	6.656e+05	1.874e+06	6.689e+05	6.306e+04	
11	2	363	480.31-25.63-22.09	476.77	-42.16	1.811e+06	2.777e+05	1.788e+06	3.006e+05	-1.861e+05	
11	2	364	445.87-128.66-106.16	423.36	111.46	1.662e+06	-1.320e+05	1.495e+06	3.458e+04	-5.206e+05	
11	2	365	394.99-232.86-103.39	265.52	254.02	1.436e+06	-5.439e+05	9.759e+05	-8.414e+04	-8.359e+05	
11	2	366	329.63-333.57-32.98	29.04	330.14	1.141e+06	-9.384e+05	2.793e+05	-7.706e+04	-1.024e+06	
11	2	367	252.67-426.7757.41	-231.51	307.48	7.899e+05	-1.297e+06	-4.842e+05	-2.261e+04	-1.017e+06	
11	2	368	167.78-509.05109.91	-451.18	189.26	3.998e+05	-1.603e+06	-1.182e+06	-2.118e+04	-8.159e+05	
11	2	369	79.41-577.7979.10	-577.47	14.30	-1.168e+04	-1.843e+06	-1.703e+06	-1.517e+05	-4.866e+05	





12	1	371	-243.87	-871.33	-359.11	-756.10	-242.95	-1.078e+06	-2.743e+06	-2.708e+06	-1.114e+06	2.407e+05
12	1	372	-362.45	-889.31	-612.09	-639.66	-263.07	-1.569e+06	-2.736e+06	-2.603e+06	-1.703e+06	3.716e+05
12	1	373	-448.18	-890.10	-808.11	-530.16	-171.78	-1.994e+06	-2.615e+06	-2.458e+06	-2.151e+06	2.698e+05
12	1	374	-484.33	-886.61	-886.35	-484.59	-10.13	-2.321e+06	-2.400e+06	-2.393e+06	-2.327e+06	2.158e+04
12	1	375	-460.10	-888.17	-822.32	-525.95	154.44	-2.049e+06	-2.586e+06	-2.456e+06	-2.179e+06	-
2.300e+05												
12	1	376	-382.76	-888.46	-636.98	-634.24	252.85	-1.634e+06	-2.721e+06	-2.601e+06	-1.754e+06	-
3.405e+05												
12	1	377	-268.93	-874.22	-389.02	-754.13	241.39	-1.153e+06	-2.742e+06	-2.710e+06	-1.184e+06	-
2.221e+05												
12	1	378	-132.95	-836.70	-153.28	-816.37	117.86	-6.259e+05	-2.649e+06	-2.641e+06	-6.333e+05	1.221e+05
12	1	379	14.27	-772.56	6.58	-764.88	-77.37	-7.671e+04	-2.445e+06	-2.283e+06	-2.386e+05	5.976e+05
12	1	380	163.72	-682.0560	75	-579.09	-276.55	4.709e+05	-2.139e+06	-1.606e+06	-6.288e+04	1.053e+06
12	1	381	307.48	-567.7122	86	-283.09	-409.98	9.930e+05	-1.745e+06	-6.786e+05	-7.393e+04	1.335e+06
12	1	382	438.42	-433.72	-57.14	61.85	-431.99	1.467e+06	-1.281e+06	3.479e+05	-1.617e+05	1.350e+06
12	1	383	550.50	-285.60	-113.75	378.65	-337.86	1.872e+06	-7.654e+05	1.292e+06	-1.850e+05	1.093e+06
12	1	384	638.56	-129.57	-92.43	601.43	-164.76	2.192e+06	-2.220e+05	2.000e+06	-3.027e+04	6.527e+05
12	1	385	698.9227	33	28.10	698.15	22.72	2.411e+06	3.257e+05	2.396e+06	3.410e+05	1.777e+05
12	1	386	729.61177	52226	93	680.21	157.59	2.523e+06	8.538e+05	2.503e+06	8.737e+05	-1.813e+05
12	1	387	731.36312	34448	16	595.55	196.12	2.521e+06	1.339e+06	2.423e+06	1.437e+06	-3.267e+05
12	1	388	710.75419	13621	85	508.03	134.24	2.411e+06	1.757e+06	2.295e+06	1.872e+06	-2.492e+05
12	1	389	691.01470	83690	67	471.17	8.60	2.241e+06	2.046e+06	2.236e+06	2.050e+06	-2.906e+04
12	1	390	703.39434	75631	98	506.16	-118.68	2.378e+06	1.833e+06	2.293e+06	1.918e+06	1.978e+05
12	1	391	743.38353	12743	16	353.34	9.28	2.998e+06	2.289e+06	2.996e+06	2.291e+06	-3.315e+04
12	1	392	746.52326	63672	86	400.29	-159.70	3.051e+06	2.142e+06	3.033e+06	2.161e+06	1.290e+05
12	1	393	752.93244	71476	42	521.22	-253.12	3.124e+06	1.742e+06	3.103e+06	1.763e+06	1.690e+05
12	1	394	746.72126	88222	46	651.13	-223.85	3.103e+06	1.211e+06	3.103e+06	1.211e+06	6898.20
12	1	395	718.49	-11.44	-3.75	710.79	-74.54	2.960e+06	6.019e+05	2.905e+06	6.570e+05	-3.563e+05
12	1	396	665.28	-159.25	-133.64	639.67	143.04	2.690e+06	-5.218e+04	2.406e+06	2.317e+05	-8.353e+05
12	1	397	587.84	-308.24	-141.46	421.06	348.76	2.299e+06	-7.181e+05	1.579e+06	1709.17	-1.286e+06
12	1	398	488.93	-451.56	-52.20	89.57	464.87	1.802e+06	-1.363e+06	4.966e+05	-5.775e+04	-1.558e+06
12	1	399	372.56	-583.3469	23	-280.00	444.91	1.220e+06	-1.956e+06	-6.843e+05	-5.093e+04	-1.556e+06
12	1	400	243.84	-698.47143	01	-597.64	291.28	5.822e+05	-2.470e+06	-1.775e+06	-1.128e+05	-1.280e+06
12	1	401	109.10	-792.98105	64	-789.52	55.77	-8.321e+04	-2.882e+06	-2.617e+06	-3.487e+05	-8.202e+05
12	1	402	-24.07	-864.43	-63.99	-824.52	-178.74	-7.447e+05	-3.178e+06	-3.134e+06	-7.889e+05	-3.248e+05
12	1	403	-146.93	-912.52	-334.20	-725.26	-329.09	-1.371e+06	-3.345e+06	-3.344e+06	-1.373e+06	5.841e+04
12	1	404	-249.41	-939.67	-630.35	-558.73	-343.27	-1.929e+06	-3.385e+06	-3.346e+06	-1.968e+06	2.351e+05
12	1	405	-320.36	-951.17	-861.46	-410.07	-220.32	-2.373e+06	-3.315e+06	-3.272e+06	-2.417e+06	1.976e+05
12	1	406	-349.32	-953.75	-953.54	-349.53	-11.06	-2.592e+06	-3.234e+06	-3.233e+06	-2.593e+06	2.467e+04
12	1	407	-330.94	-951.27	-876.95	-405.26	201.45	-2.421e+06	-3.299e+06	-3.272e+06	-2.447e+06	-
1.513e+05												
12	1	408	-268.44	-941.36	-657.41	-552.39	332.34	-1.998e+06	-3.377e+06	-3.348e+06	-2.027e+06	-
1.969e+05												
12	1	409	-171.37	-917.58	-366.45	-722.51	327.89	-1.455e+06	-3.353e+06	-3.352e+06	-1.456e+06	-
3.218e+04												
12	1	410	-50.95	-873.99	-94.99	-829.94	185.23	-8.402e+05	-3.203e+06	-3.153e+06	-8.894e+05	3.372e+05
12	1	411	82.47	-807.3780	04	-804.94	-46.48	-1.879e+05	-2.926e+06	-2.653e+06	-4.602e+05	8.195e+05
12	1	412	219.72	-717.32123	33	-620.93	-284.66	4.710e+05	-2.532e+06	-1.832e+06	-2.290e+05	1.270e+06
12	1	413	352.75	-605.6752	80	-305.72	-444.42	1.107e+06	-2.037e+06	-7.633e+05	-1.675e+05	1.544e+06



12	1	414	474.50-476.12-69.29	67.66	-470.35	1.691e+06	-1.464e+06	4.016e+05	-1.739e+05	1.551e+06	
12	1	415	578.99-333.66-161.75	407.08	-356.85	2.199e+06	-8.353e+05	1.482e+06	-1.182e+05	1.289e+06	
12	1	416	661.57-184.48-157.14	634.23	-149.61	2.609e+06	-1.807e+05	2.325e+06	1.037e+05	8.443e+05	
12	1	417	719.13-35.67-28.63	712.09	72.56	2.905e+06	4.706e+05	2.851e+06	5.244e+05	3.580e+05	
12	1	418	750.77104.54198.80	656.51	228.10	3.077e+06	1.088e+06	3.076e+06	1.088e+06	-2.504e+04	
12	1	419	758.89226.10457.38	527.61	264.07	3.124e+06	1.637e+06	3.094e+06	1.667e+06	-2.107e+05	
12	1	420	751.43315.21662.10	404.54	176.03	3.068e+06	2.072e+06	3.031e+06	2.109e+06	-1.887e+05	
12	2	361	532.73247.68330.20	450.20	-129.28	1.901e+06	1.067e+06	1.840e+06	1.128e+06	2.168e+05	
12	2	362	537.59143.36170.58	510.36	-99.96	1.921e+06	7.038e+05	1.909e+06	7.158e+05	1.201e+05	
12	2	363	519.7327.03 27.03	519.73	0.61	1.854e+06	3.013e+05	1.841e+06	3.145e+05	-1.423e+05	
12	2	364	478.67-94.76-58.68	442.59	139.25	1.702e+06	-1.224e+05	1.552e+06	2.769e+04	-5.013e+05	
12	2	365	416.05-216.48-71.52	271.09	265.85	1.469e+06	-5.481e+05	1.016e+06	-9.544e+04	-8.414e+05	
12	2	366	334.74-333.01-27.71	29.45	332.65	1.164e+06	-9.557e+05	2.879e+05	-7.948e+04	-1.044e+06	
12	2	367	238.51-439.6332.34	-233.45	311.94	8.023e+05	-1.326e+06	-5.121e+05	-1.172e+04	-1.034e+06	
12	2	368	131.81-532.1359.61	-459.93	206.70	3.999e+05	-1.642e+06	-1.239e+06	-3654.64	-8.132e+05	
12	2	369	19.82-607.11 15.71	-603.00	50.58	-2.453e+04	-1.891e+06	-1.772e+06	-1.429e+05	-4.548e+05	
12	2	370	-91.52-662.33-110.98	-642.88	-103.56	-4.519e+05	-2.060e+06	-2.056e+06	-4.557e+05	-7.864e+04	
12	2	371	-195.45 -697.27	-298.91	-593.80	-203.02	-8.634e+05	-2.144e+06	-2.113e+06	-8.942e+05	1.962e+05
12	2	372	-283.91 -713.84	-499.63	-498.13	-214.96	-1.241e+06	-2.138e+06	-2.028e+06	-1.351e+06	2.945e+05
12	2	373	-346.92 -717.40	-654.56	-409.75	-139.04	-1.569e+06	-2.044e+06	-1.914e+06	-1.699e+06	2.123e+05
12	2	374	-373.05 -716.39	-716.21	-373.23	-7.79	-1.828e+06	-1.871e+06	-1.863e+06	-1.835e+06	1.660e+04
12	2	375	-355.54 -716.47	-665.48	-406.52	125.71	-1.611e+06	-2.021e+06	-1.912e+06	-1.720e+06	-
1.816e+05											
12	2	376	-298.89 -713.84	-518.77	-493.97	207.11	-1.291e+06	-2.126e+06	-2.026e+06	-1.391e+06	-
2.705e+05											
12	2	377	-214.20 -700.02	-321.92	-592.30	201.82	-9.207e+05	-2.143e+06	-2.115e+06	-9.484e+05	-
1.819e+05											
12	2	378	-111.96 -668.80	-133.57	-647.19	107.53	-5.153e+05	-2.071e+06	-2.067e+06	-5.197e+05	8.245e+04
12	2	379	-0.61-617.57 -3.89	-614.29	-44.82	-9.272e+04	-1.914e+06	-1.796e+06	-2.115e+05	4.497e+05	
12	2	380	112.78-546.3743.02	-476.62	-202.76	3.286e+05	-1.679e+06	-1.278e+06	-7.273e+04	8.030e+05	
12	2	381	222.00-457.0516.74	-251.79	-311.85	7.303e+05	-1.377e+06	-5.670e+05	-7.928e+04	1.025e+06	
12	2	382	321.47-352.72-44.80	13.55	-335.83	1.095e+06	-1.019e+06	2.226e+05	-1.468e+05	1.041e+06	
12	2	383	406.45-237.55-91.21	260.11	-269.87	1.407e+06	-6.229e+05	9.507e+05	-1.667e+05	8.474e+05	
12	2	384	472.89-116.23-80.06	436.72	-141.43	1.653e+06	-2.051e+05	1.499e+06	-5.123e+04	5.121e+05	
12	2	385	517.835.95 5.95	517.83	0.60	1.822e+06	2.160e+05	1.808e+06	2.298e+05	1.482e+05	
12	2	386	539.53123.39151.88	511.05	105.09	1.908e+06	6.218e+05	1.895e+06	6.348e+05	-1.284e+05	
12	2	387	538.08229.89315.95	452.03	138.26	1.907e+06	9.943e+05	1.838e+06	1.064e+06	-2.427e+05	
12	2	388	517.56316.71445.41	388.85	96.36	1.824e+06	1.314e+06	1.742e+06	1.396e+06	-1.870e+05	
12	2	389	497.21361.64496.89	361.96	6.61	1.701e+06	1.529e+06	1.698e+06	1.532e+06	-2.236e+04	
12	2	390	510.89329.73453.21	387.42	-84.39	1.800e+06	1.372e+06	1.741e+06	1.431e+06	1.475e+05	
12	2	391	534.68273.92534.48	274.11	7.14	2.270e+06	1.711e+06	2.269e+06	1.712e+06	-2.551e+04	
12	2	392	539.25251.38482.12	308.51	-114.81	2.310e+06	1.600e+06	2.296e+06	1.613e+06	9.646e+04	
12	2	393	548.86183.69335.84	396.71	-180.03	2.363e+06	1.294e+06	2.349e+06	1.308e+06	1.249e+05	
12	2	394	548.2888.85147.59	489.54	-153.42	2.346e+06	8.868e+05	2.346e+06	8.868e+05	-1238.28	
12	2	395	529.86-20.84-18.25	527.27	-37.71	2.235e+06	4.188e+05	2.191e+06	4.634e+05	-2.809e+05	
12	2	396	491.60-137.21-110.36	464.75	127.12	2.027e+06	-8.381e+04	1.804e+06	1.389e+05	-6.485e+05	
12	2	397	434.32-254.11-110.28	290.49	279.87	1.726e+06	-5.957e+05	1.166e+06	-3.587e+04	-9.932e+05	
12	2	398	360.35-366.46-38.27	32.16	361.70	1.343e+06	-1.091e+06	3.325e+05	-8.044e+04	-1.200e+06	



12	2	399	272.90-469.8955.13	-252.12	338.13	8.960e+05	-1.547e+06	-5.759e+05	-7.519e+04	-1.196e+06	
12	2	400	176.00-560.58108.54	-493.12	212.46	4.047e+05	-1.942e+06	-1.413e+06	-1.239e+05	-9.804e+05	
12	2	401	74.64-635.5673.70	-634.62	25.80	-1.074e+05	-2.259e+06	-2.059e+06	-3.075e+05	-6.249e+05	
12	2	402	-25.31-693.02-64.59	-653.73	-157.12	-6.167e+05	-2.486e+06	-2.454e+06	-6.489e+05	-2.430e+05	
12	2	403	-117.08 -732.75	-280.61	-569.22	-271.92	-1.099e+06	-2.614e+06	-2.613e+06	-1.101e+06	5.148e+04
12	2	404	-193.09 -756.45	-515.53	-434.01	-278.72	-1.529e+06	-2.644e+06	-2.612e+06	-1.561e+06	1.860e+05
12	2	405	-245.26 -767.71	-698.13	-314.84	-177.51	-1.873e+06	-2.589e+06	-2.553e+06	-1.908e+06	1.548e+05
12	2	406	-266.41 -770.81	-770.67	-266.56	-8.50	-2.043e+06	-2.524e+06	-2.523e+06	-2.044e+06	1.898e+04
12	2	407	-253.01 -768.17	-710.04	-311.14	163.00	-1.910e+06	-2.576e+06	-2.554e+06	-1.932e+06	-
1.192e+05											
12	2	408	-207.16 -758.33	-536.34	-429.15	270.32	-1.583e+06	-2.637e+06	-2.614e+06	-1.607e+06	-
1.566e+05											
12	2	409	-135.33 -737.20	-305.41	-567.11	271.00	-1.164e+06	-2.620e+06	-2.619e+06	-1.165e+06	-
3.129e+04											
12	2	410	-45.52-700.84-88.44	-657.92	162.12	-6.903e+05	-2.505e+06	-2.469e+06	-7.262e+05	2.526e+05	
12	2	411	54.50-646.9954.01	-646.49	-18.66	-1.881e+05	-2.293e+06	-2.087e+06	-3.934e+05	6.244e+05	
12	2	412	157.71-575.3593.41	-511.05	-207.37	3.191e+05	-1.990e+06	-1.458e+06	-2.134e+05	9.727e+05	
12	2	413	257.84-487.2742.49	-271.92	-337.76	8.084e+05	-1.610e+06	-6.367e+05	-1.649e+05	1.186e+06	
12	2	414	349.37-385.49-51.42	15.30	-365.92	1.258e+06	-1.169e+06	2.594e+05	-1.699e+05	1.194e+06	
12	2	415	427.62-273.78-125.89	279.73	-286.11	1.649e+06	-6.859e+05	1.092e+06	-1.281e+05	9.957e+05	
12	2	416	488.87-156.74-128.44	460.57	-132.18	1.965e+06	-1.827e+05	1.742e+06	4.046e+04	6.554e+05	
12	2	417	530.57-39.70-37.39	528.27	36.18	2.193e+06	3.178e+05	2.150e+06	3.613e+05	2.822e+05	
12	2	418	551.8071.27129.39	493.68	156.69	2.326e+06	7.918e+05	2.326e+06	7.920e+05	-1.272e+04	
12	2	419	554.11168.70321.18	401.63	188.46	2.363e+06	1.213e+06	2.342e+06	1.235e+06	-1.570e+05	
12	2	420	543.78241.85473.84	311.79	127.38	2.322e+06	1.546e+06	2.295e+06	1.574e+06	-1.424e+05	

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-953.75	-953.54	-829.94	-470.35		-3.385e+06	-3.352e+06	-2.593e+06	-1.558e+06	
	758.89	743.16	712.09	464.87	3.124e+06		3.103e+06	2.291e+06	1.551e+06	

Macro	Tipo	Angolo 1-X (gradi)
13	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
13	1	391	750.68578.47750.17		578.98	9.36	2.965e+06	2.498e+06	2.963e+06	2.500e+06	-3.393e+04	
13	1	392	773.36528.50688.83		613.03	-116.42	3.060e+06	2.307e+06	3.013e+06	2.354e+06	1.834e+05	
13	1	393	806.55405.53515.44		696.64	-178.88	3.173e+06	1.855e+06	3.119e+06	1.909e+06	2.609e+05	
13	1	394	812.37251.56288.53		775.39	-139.17	3.170e+06	1.290e+06	3.164e+06	1.296e+06	1.070e+05	
13	1	395	783.5580.63 80.64		783.54	-0.76	3.031e+06	6.509e+05	2.998e+06	6.838e+05	-2.782e+05	
13	1	396	719.88-97.94-50.31		672.25	191.52	2.757e+06	-3.012e+04	2.506e+06	2.214e+05	-7.986e+05	
13	1	397	624.03-276.14-82.64		430.52	369.79	2.356e+06	-7.213e+05	1.653e+06	-1.810e+04	-1.292e+06	
13	1	398	500.36-446.48-36.64		90.53	469.13	1.843e+06	-1.389e+06	5.180e+05	-6.414e+04	-1.590e+06	
13	1	399	354.35-601.8834.79		-282.32	451.06	1.242e+06	-2.003e+06	-7.247e+05	-3.570e+04	-1.585e+06	
13	1	400	192.36-735.8966.54		-610.07	317.74	5.812e+05	-2.533e+06	-1.866e+06	-8.625e+04	-1.278e+06	



13	1	401	21.74-843.13	6.82	-828.20	112.62	-1.092e+05	-2.958e+06	-2.731e+06	-3.359e+05	-7.710e+05		
2.312e+05	13	1	402	-149.19	-919.77	-160.98	-907.99	-94.55	-7.976e+05	-3.258e+06	-3.236e+06	-8.195e+05	-
	13	1	403	-311.14	-964.30	-409.36	-866.08	-233.46	-1.453e+06	-3.423e+06	-3.408e+06	-1.469e+06	1.749e+05
	13	1	404	-452.94	-978.74	-674.77	-756.91	-259.67	-2.045e+06	-3.448e+06	-3.360e+06	-2.134e+06	3.413e+05
	13	1	405	-559.08	-971.67	-879.93	-650.82	-171.57	-2.539e+06	-3.341e+06	-3.245e+06	-2.636e+06	2.611e+05
	13	1	406	-605.91	-962.33	-961.98	-606.26	-11.17	-2.831e+06	-3.191e+06	-3.190e+06	-2.833e+06	2.529e+04
2.138e+05	13	1	407	-574.59	-967.85	-895.59	-646.85	152.31	-2.597e+06	-3.315e+06	-3.244e+06	-2.668e+06	-
3.032e+05	13	1	408	-478.07	-976.36	-702.38	-752.05	247.90	-2.121e+06	-3.435e+06	-3.361e+06	-2.195e+06	-
1.499e+05	13	1	409	-341.19	-966.84	-442.91	-865.13	230.85	-1.542e+06	-3.428e+06	-3.416e+06	-1.554e+06	-
	13	1	410	-181.09	-928.54	-194.47	-915.16	99.12	-8.972e+05	-3.281e+06	-3.257e+06	-9.219e+05	2.412e+05
	13	1	411	-9.60-858.29	-22.92	-844.97	-105.48	-2.176e+05	-3.001e+06	-2.770e+06	-4.484e+05	7.674e+05	
	13	1	412	163.53-756.91	140.75	-634.13	-312.95	4.664e+05	-2.597e+06	-1.928e+06	-2.024e+05	1.265e+06	
	13	1	413	329.61-627.68	10.28	-308.36	-451.35	1.125e+06	-2.087e+06	-8.110e+05	-1.512e+05	1.572e+06	
	13	1	414	480.73-475.63	-63.18	68.27	-473.64	1.729e+06	-1.494e+06	4.143e+05	-1.794e+05	1.584e+06	
	13	1	415	609.91-307.04	-112.47	415.34	-374.90	2.253e+06	-8.438e+05	1.547e+06	-1.384e+05	1.299e+06	
	13	1	416	711.34-129.13	-81.85	664.06	-193.65	2.674e+06	-1.647e+05	2.418e+06	9.091e+04	8.125e+05	
	13	1	417	780.58	50.30	780.56	3.40	2.975e+06	5.132e+05	2.941e+06	5.466e+05	2.847e+05	
	13	1	418	814.93	222.94	262.02	775.86	146.99	3.144e+06	1.159e+06	3.136e+06	1.167e+06	-1.219e+05
	13	1	419	814.19	379.95	495.34	698.80	191.81	3.177e+06	1.742e+06	3.111e+06	1.808e+06	-3.016e+05
	13	1	420	783.42	509.27	677.84	614.85	133.41	3.087e+06	2.224e+06	3.012e+06	2.299e+06	-2.439e+05
	13	1	421	827.65	167.32	255.04	739.93	-224.12	3.845e+06	1.580e+06	3.840e+06	1.585e+06	-1.070e+05
	13	1	422	797.84	6.79	11.93	792.70	-63.56	3.622e+06	8.580e+05	3.525e+06	9.549e+05	-5.083e+05
	13	1	423	738.15	-162.95	-130.36	705.56	168.24	3.251e+06	6.732e+04	2.877e+06	4.411e+05	-1.025e+06
	13	1	424	649.97	-332.85	-144.65	461.77	386.71	2.738e+06	-7.494e+05	1.870e+06	1.181e+05	-1.508e+06
	13	1	425	536.69	-495.45	-57.09	98.33	510.19	2.101e+06	-1.550e+06	5.859e+05	-3.440e+04	-1.799e+06
	13	1	426	402.86	-644.19	64.43	-305.77	489.71	1.369e+06	-2.295e+06	-8.059e+05	-1.199e+05	-1.800e+06
	13	1	427	254.18	-773.29	136.20	-655.32	327.56	5.757e+05	-2.951e+06	-2.101e+06	-2.740e+05	-1.508e+06
	13	1	428	97.75	-878.11	91.47	-871.82	78.07	-2.409e+05	-3.490e+06	-3.130e+06	-6.008e+05	-1.020e+06
	13	1	429	-57.91	-955.72	-91.93	-921.70	-171.43	-1.042e+06	-3.893e+06	-3.807e+06	-1.127e+06	-4.869e+05
6.193e+04	13	1	430	-202.90	-1005.71	-380.49	-828.11	-333.22	-1.787e+06	-4.146e+06	-4.144e+06	-1.788e+06	-
	13	1	431	-325.51	-1031.02	-695.46	-661.06	-352.33	-2.431e+06	-4.252e+06	-4.238e+06	-2.445e+06	1.572e+05
	13	1	432	-411.91	-1038.79	-940.90	-509.81	-227.56	-2.914e+06	-4.240e+06	-4.220e+06	-2.934e+06	1.610e+05
	13	1	433	-447.78	-1039.06	-1038.81	-448.03	-12.16	-3.125e+06	-4.202e+06	-4.201e+06	-3.126e+06	2.845e+04
1.069e+05	13	1	434	-425.12	-1038.09	-957.97	-505.25	206.63	-2.961e+06	-4.233e+06	-4.223e+06	-2.970e+06	-
1.110e+05	13	1	435	-348.83	-1031.96	-725.49	-655.30	339.76	-2.507e+06	-4.253e+06	-4.246e+06	-2.514e+06	-
	13	1	436	-232.34	-1010.75	-416.71	-826.38	330.94	-1.883e+06	-4.164e+06	-4.160e+06	-1.887e+06	9.612e+04
	13	1	437	-89.87	-966.24	-127.39	-928.72	177.41	-1.154e+06	-3.931e+06	-3.835e+06	-1.249e+06	5.065e+05
	13	1	438	66.37	-894.37	61.41	-889.41	-68.90	-3.660e+05	-3.550e+06	-3.176e+06	-7.394e+05	1.024e+06
	13	1	439	226.01	-794.73	12.43	-681.15	-320.99	4.405e+05	-3.032e+06	-2.170e+06	-4.217e+05	1.500e+06
	13	1	440	379.95	-669.56	44.34	-333.96	-489.48	1.228e+06	-2.399e+06	-9.003e+05	-2.702e+05	1.786e+06
	13	1	441	520.28	-523.15	-77.51	74.64	-516.14	1.962e+06	-1.676e+06	4.709e+05	-1.845e+05	1.789e+06
	13	1	442	640.18	-361.23	-168.02	446.97	-395.16	2.610e+06	-8.949e+05	1.750e+06	-3.501e+04	1.508e+06



13	1	443	734.30-190.86-156.56	700.00	-174.78	3.146e+06	-9.128e+04	2.774e+06	2.805e+05	1.032e+06	
13	1	444	798.92-19.94-15.23	794.21	61.92	3.548e+06	6.978e+05	3.454e+06	7.912e+05	5.074e+05	
13	1	445	832.69142.42229.35	745.77	229.01	3.804e+06	1.433e+06	3.801e+06	1.436e+06	8.340e+04	
13	1	446	837.88285.23505.58	617.53	270.60	3.917e+06	2.070e+06	3.906e+06	2.081e+06	-1.423e+05	
13	1	447	823.59392.64723.74	492.50	181.83	3.915e+06	2.549e+06	3.897e+06	2.567e+06	-1.578e+05	
13	1	448	810.45439.75810.17	440.03	10.22	3.882e+06	2.765e+06	3.881e+06	2.767e+06	-3.804e+04	
13	1	449	817.07406.27735.54	487.81	-163.85	3.909e+06	2.622e+06	3.903e+06	2.628e+06	8.873e+04	
13	1	450	830.36306.52526.34	610.53	-258.52	3.928e+06	2.190e+06	3.923e+06	2.195e+06	9.244e+04	
13	1	451	706.63-420.67-230.67	516.63	422.00	3.173e+06	-7.545e+05	2.105e+06	3.136e+05	-1.748e+06	
13	1	452	603.48-575.08-85.62	114.02	580.76	2.379e+06	-1.707e+06	6.591e+05	1.356e+04	-2.017e+06	
13	1	453	482.73-717.91105.66	-340.85	557.26	1.490e+06	-2.612e+06	-8.882e+05	-2.336e+05	-2.024e+06	
13	1	454	349.28-844.00232.96	-727.68	353.94	5.470e+05	-3.429e+06	-2.350e+06	-5.315e+05	-1.768e+06	
13	1	455	209.84-949.28208.40	-947.84	40.79	-4.024e+05	-4.126e+06	-3.571e+06	-9.576e+05	-1.326e+06	
13	1	456	72.67-1031.262.18	-960.78	-269.89	-1.310e+06	-4.679e+06	-4.462e+06	-1.526e+06	-8.256e+05	
13	1	457	-52.70-1089.59-343.60	-798.70	-465.84	-2.125e+06	-5.075e+06	-5.022e+06	-2.179e+06	-3.920e+05	
13	1	458	-155.85 -1126.27 -728.70	-728.70	-553.42	-477.23	-2.793e+06	-5.319e+06	-5.314e+06	-2.798e+06	-
1.081e+05											
13	1	459	-226.26 -1145.33 -1030.92	-1030.92	-340.66	-303.40	-3.250e+06	-5.435e+06	-5.435e+06	-3.250e+06	1.375e+04
13	1	460	-255.21 -1151.29 -1151.09	-1151.09	-255.41	-13.41	-3.426e+06	-5.467e+06	-5.467e+06	-3.427e+06	3.187e+04
13	1	461	-238.51 -1146.63 -1049.74	-1049.74	-335.40	280.36	-3.288e+06	-5.444e+06	-5.443e+06	-3.289e+06	4.799e+04
13	1	462	-178.29 -1130.02 -761.79	-761.79	-546.52	463.53	-2.864e+06	-5.341e+06	-5.330e+06	-2.875e+06	1.639e+05
13	1	463	-82.02-1097.23-383.39-795.86	-795.86	463.82	-2.224e+06	-5.116e+06	-5.048e+06	-2.291e+06	4.379e+05	
13	1	464	40.19-1043.77-36.29	-967.29	277.59	-1.431e+06	-4.740e+06	-4.500e+06	-1.671e+06	8.578e+05	
13	1	465	177.86-966.78177.13	-966.05	-28.84	-5.425e+05	-4.209e+06	-3.625e+06	-1.127e+06	1.342e+06	
13	1	466	321.06-865.72210.86	-755.52	-344.44	3.910e+05	-3.535e+06	-2.426e+06	-7.176e+05	1.767e+06	
13	1	467	460.87-742.3590.56	-372.03	-555.37	1.323e+06	-2.740e+06	-9.905e+05	-4.269e+05	2.012e+06	
13	1	468	589.49-600.34-98.40	87.55	-587.60	2.210e+06	-1.858e+06	5.323e+05	-1.804e+05	2.003e+06	
13	1	469	700.53-445.21-245.78	501.10	-434.42	3.014e+06	-9.267e+05	1.968e+06	1.193e+05	1.740e+06	
13	1	470	789.00-283.71-260.02	765.31	-157.64	3.702e+06	1.180e+04	3.167e+06	5.464e+05	1.299e+06	
13	1	471	852.04-124.01-104.54	832.58	136.46	4.249e+06	9.112e+05	4.044e+06	1.116e+06	8.007e+05	
13	1	472	889.3524.22187.34	726.23	338.40	4.642e+06	1.722e+06	4.595e+06	1.770e+06	3.700e+05	
13	1	473	904.19149.31524.76	528.74	377.43	4.884e+06	2.391e+06	4.881e+06	2.394e+06	8.907e+04	
13	1	474	904.30237.05793.67	347.68	248.15	5.000e+06	2.854e+06	5.000e+06	2.854e+06	-2.934e+04	
13	1	475	900.58272.26900.35	272.49	11.97	5.033e+06	3.043e+06	5.032e+06	3.044e+06	-4.202e+04	
13	1	476	899.80246.48807.30	338.97	-227.76	5.013e+06	2.921e+06	5.012e+06	2.922e+06	-4.868e+04	
13	1	477	897.49165.31547.82	514.98	-365.72	4.920e+06	2.513e+06	4.910e+06	2.522e+06	-1.496e+05	
13	1	478	882.8743.74213.60	713.01	-337.17	4.708e+06	1.884e+06	4.649e+06	1.944e+06	-4.050e+05	
13	1	479	847.71-102.61-80.27	825.37	-143.98	4.350e+06	1.094e+06	4.133e+06	1.312e+06	-8.121e+05	
13	1	480	788.79-260.71-240.24	768.32	145.14	3.836e+06	1.971e+05	3.289e+06	7.444e+05	-1.301e+06	
13	2	391	540.16442.05539.63	442.58	7.20	2.247e+06	1.867e+06	2.245e+06	1.868e+06	-2.610e+04	
13	2	392	564.19397.03493.95	467.27	-82.51	2.316e+06	1.724e+06	2.283e+06	1.757e+06	1.369e+05	
13	2	393	594.95297.20364.80	527.36	-124.73	2.400e+06	1.379e+06	2.362e+06	1.417e+06	1.931e+05	
13	2	394	601.94176.25196.49	581.70	-90.59	2.396e+06	9.455e+05	2.392e+06	9.491e+05	7.254e+04	
13	2	395	581.3243.22 43.73	580.81	16.63	2.289e+06	4.549e+05	2.261e+06	4.827e+05	-2.242e+05	
13	2	396	533.50-95.29-50.15	488.36	162.32	2.078e+06	-6.851e+04	1.878e+06	1.310e+05	-6.232e+05	
13	2	397	460.72-233.33-69.67	297.06	294.63	1.769e+06	-5.999e+05	1.219e+06	-4.999e+04	-1.000e+06	
13	2	398	366.48-365.25-31.36	32.60	364.46	1.374e+06	-1.114e+06	3.440e+05	-8.367e+04	-1.225e+06	



13	2	399	255.08-485.7023.59	-254.21	343.36	9.113e+05	-1.585e+06	-6.119e+05	-6.179e+04	-1.217e+06	
13	2	400	131.50-589.8145.08	-503.39	234.24	4.025e+05	-1.993e+06	-1.488e+06	-1.024e+05	-9.770e+05	
13	2	401	1.48-673.53 -6.21	-665.84	71.64	-1.288e+05	-2.319e+06	-2.150e+06	-2.977e+05	-5.842e+05	
13	2	402	-128.46 -734.03	-142.13	-720.37	-89.95	-6.587e+05	-2.550e+06	-2.535e+06	-6.737e+05	-
1.676e+05											
13	2	403	-250.96 -770.36	-340.35	-680.97	-196.05	-1.164e+06	-2.676e+06	-2.663e+06	-1.177e+06	1.443e+05
13	2	404	-357.20 -784.30	-550.74	-590.76	-212.61	-1.620e+06	-2.695e+06	-2.622e+06	-1.693e+06	2.702e+05
13	2	405	-435.28 -782.43	-712.79	-504.92	-139.01	-2.002e+06	-2.610e+06	-2.531e+06	-2.082e+06	2.050e+05
13	2	406	-468.91 -777.64	-777.41	-469.15	-8.59	-2.232e+06	-2.489e+06	-2.488e+06	-2.234e+06	1.946e+04
13	2	407	-446.45 -780.25	-724.84	-501.87	124.21	-2.047e+06	-2.589e+06	-2.530e+06	-2.106e+06	-
1.687e+05											
13	2	408	-375.80 -783.21	-571.98	-587.03	203.56	-1.678e+06	-2.684e+06	-2.623e+06	-1.740e+06	-
2.409e+05											
13	2	409	-273.56 -772.83	-366.15	-680.24	194.05	-1.232e+06	-2.680e+06	-2.669e+06	-1.243e+06	-
1.251e+05											
13	2	410	-152.65 -741.13	-167.89	-725.89	93.47	-7.356e+05	-2.568e+06	-2.551e+06	-7.525e+05	1.753e+05
13	2	411	-22.41-685.41-29.08	-678.75	-66.14	-2.124e+05	-2.352e+06	-2.180e+06	-3.842e+05	5.814e+05	
13	2	412	109.44-606.1025.25	-521.91	-230.55	3.141e+05	-2.042e+06	-1.536e+06	-1.918e+05	9.674e+05	
13	2	413	236.08-505.584.74	-274.24	-343.59	8.209e+05	-1.650e+06	-6.783e+05	-1.507e+05	1.207e+06	
13	2	414	351.33-387.62-51.77	15.47	-367.94	1.286e+06	-1.194e+06	2.642e+05	-1.724e+05	1.221e+06	
13	2	415	449.74-256.98-92.62	285.38	-298.56	1.689e+06	-6.941e+05	1.138e+06	-1.425e+05	1.005e+06	
13	2	416	526.77-119.13-74.42	482.05	-163.96	2.013e+06	-1.720e+05	1.811e+06	3.064e+04	6.339e+05	
13	2	417	578.9020.01 20.39	578.52	-14.61	2.245e+06	3.490e+05	2.217e+06	3.771e+05	2.292e+05	
13	2	418	603.87154.27176.09	582.06	96.60	2.376e+06	8.452e+05	2.371e+06	8.498e+05	-8.395e+04	
13	2	419	601.07277.28349.33	529.02	134.68	2.403e+06	1.292e+06	2.355e+06	1.340e+06	-2.244e+05	
13	2	420	573.03381.14485.49	468.68	95.58	2.336e+06	1.661e+06	2.282e+06	1.715e+06	-1.834e+05	
13	2	421	608.63116.41169.70	555.33	-152.95	2.905e+06	1.159e+06	2.901e+06	1.163e+06	-8.653e+04	
13	2	422	588.83-10.21 -8.84	587.47	-28.56	2.732e+06	6.039e+05	2.656e+06	6.802e+05	-3.955e+05	
13	2	423	545.37-143.23-110.21	512.35	147.13	2.446e+06	-3865.58	2.156e+06	2.867e+05	-7.922e+05	
13	2	424	479.62-276.00-114.88	318.50	309.49	2.052e+06	-6.318e+05	1.380e+06	3.957e+04	-1.162e+06	
13	2	425	394.39-402.99-44.07	35.47	396.70	1.562e+06	-1.247e+06	3.915e+05	-7.695e+04	-1.385e+06	
13	2	426	293.32-519.2949.40	-275.37	372.44	9.981e+05	-1.820e+06	-6.791e+05	-1.428e+05	-1.383e+06	
13	2	427	180.93-620.57101.15	-540.79	239.95	3.876e+05	-2.324e+06	-1.675e+06	-2.620e+05	-1.157e+06	
13	2	428	62.77-703.3660.42	-701.01	42.34	-2.408e+05	-2.739e+06	-2.465e+06	-5.148e+05	-7.806e+05	
13	2	429	-54.51-765.53-88.74	-731.30	-152.20	-8.572e+05	-3.048e+06	-2.984e+06	-9.216e+05	-3.701e+05	
13	2	430	-163.22 -806.81	-319.17	-650.85	-275.77	-1.431e+06	-3.242e+06	-3.241e+06	-1.432e+06	-
4.339e+04											
13	2	431	-254.42 -829.39	-568.82	-514.98	-286.22	-1.927e+06	-3.323e+06	-3.312e+06	-1.939e+06	1.242e+05
13	2	432	-318.02 -838.24	-762.62	-393.64	-183.36	-2.300e+06	-3.313e+06	-3.297e+06	-2.316e+06	1.257e+05
13	2	433	-344.17 -839.88	-839.70	-344.35	-9.36	-2.463e+06	-3.283e+06	-3.282e+06	-2.464e+06	2.189e+04
13	2	434	-327.69 -838.19	-775.75	-390.13	167.27	-2.336e+06	-3.307e+06	-3.300e+06	-2.343e+06	-
8.408e+04											
13	2	435	-271.71 -830.77	-591.92	-510.56	276.56	-1.986e+06	-3.324e+06	-3.318e+06	-1.992e+06	-
8.869e+04											
13	2	436	-185.28 -811.27	-347.03	-649.53	274.03	-1.505e+06	-3.256e+06	-3.254e+06	-1.507e+06	6.970e+04
13	2	437	-78.65-774.07-116.02	-736.70	156.81	-9.435e+05	-3.077e+06	-3.005e+06	-1.015e+06	3.851e+05	
13	2	438	38.95-716.2137.30	-714.56	-35.29	-3.372e+05	-2.785e+06	-2.501e+06	-6.214e+05	7.841e+05	
13	2	439	159.49-637.3082.87	-560.68	-234.89	2.835e+05	-2.387e+06	-1.728e+06	-3.756e+05	1.151e+06	
13	2	440	275.85-538.9633.95	-297.06	-372.27	8.898e+05	-1.900e+06	-7.518e+05	-2.584e+05	1.373e+06	





13	2	441	381.86-424.40-59.78	17.24	-401.28	1.455e+06	-1.344e+06	3.030e+05	-1.925e+05	1.377e+06	
13	2	442	472.16-297.91-132.87	307.11	-316.00	1.953e+06	-7.437e+05	1.288e+06	-7.822e+04	1.163e+06	
13	2	443	542.49-164.79-130.37	508.07	-152.17	2.366e+06	-1.259e+05	2.077e+06	1.631e+05	7.978e+05	
13	2	444	589.83-30.95-29.75	588.63	27.29	2.675e+06	4.807e+05	2.602e+06	5.542e+05	3.947e+05	
13	2	445	612.8896.89149.93	559.83	156.71	2.873e+06	1.046e+06	2.871e+06	1.048e+06	6.839e+04	
13	2	446	612.92210.68355.05	468.54	192.95	2.961e+06	1.535e+06	2.953e+06	1.543e+06	-1.061e+05	
13	2	447	596.75298.48517.87	377.37	131.55	2.961e+06	1.902e+06	2.947e+06	1.916e+06	-1.196e+05	
13	2	448	582.84338.52582.59	338.77	7.86	2.936e+06	2.068e+06	2.935e+06	2.069e+06	-2.926e+04	
13	2	449	590.80309.91526.95	373.75	-117.72	2.956e+06	1.958e+06	2.951e+06	1.963e+06	6.644e+04	
13	2	450	606.45227.75371.03	463.16	-183.66	2.970e+06	1.627e+06	2.966e+06	1.630e+06	6.779e+04	
13	2	451	521.67-342.14-177.82	357.35	339.03	2.373e+06	-6.469e+05	1.555e+06	1.712e+05	-1.342e+06	
13	2	452	445.61-464.20-62.09	43.50	451.83	1.763e+06	-1.380e+06	4.435e+05	-6.023e+04	-1.551e+06	
13	2	453	355.92-577.2685.04	-306.39	423.56	1.079e+06	-2.076e+06	-7.467e+05	-2.503e+05	-1.558e+06	
13	2	454	256.46-677.45178.82	-599.81	257.84	3.543e+05	-2.705e+06	-1.872e+06	-4.789e+05	-1.362e+06	
13	2	455	152.46-761.70152.35	-761.59	10.14	-3.756e+05	-3.242e+06	-2.812e+06	-8.055e+05	-1.023e+06	
13	2	456	50.29-828.11-15.98	-761.84	-232.00	-1.073e+06	-3.667e+06	-3.499e+06	-1.242e+06	-6.387e+05	
13	2	457	-42.79-876.34-292.11	-627.02	-381.66	-1.700e+06	-3.973e+06	-3.931e+06	-1.742e+06	-3.050e+05	
13	2	458	-119.01 -907.68	-597.17	-429.51	-385.32	-2.213e+06	-4.161e+06	-4.157e+06	-2.217e+06	-
8.590e+04											
13	2	459	-170.79 -924.72	-835.65	-259.86	-243.36	-2.563e+06	-4.251e+06	-4.251e+06	-2.563e+06	9086.34
13	2	460	-192.02 -930.34	-930.20	-192.17	-10.31	-2.699e+06	-4.276e+06	-4.276e+06	-2.700e+06	2.452e+04
13	2	461	-179.85 -926.08	-850.11	-255.82	225.65	-2.593e+06	-4.258e+06	-4.257e+06	-2.594e+06	3.842e+04
13	2	462	-135.72 -911.12	-622.62	-424.21	374.79	-2.268e+06	-4.178e+06	-4.170e+06	-2.276e+06	1.288e+05
13	2	463	-64.75-882.81-322.71	-624.85	380.11	-1.775e+06	-4.004e+06	-3.951e+06	-1.829e+06	3.403e+05	
13	2	464	25.84-838.27-45.57	-766.86	237.93	-1.166e+06	-3.715e+06	-3.528e+06	-1.353e+06	6.635e+05	
13	2	465	128.30-775.61128.30	-775.61	-0.94	-4.834e+05	-3.306e+06	-2.853e+06	-9.358e+05	1.036e+06	
13	2	466	235.13-694.54161.83	-621.24	-250.54	2.343e+05	-2.787e+06	-1.930e+06	-6.221e+05	1.362e+06	
13	2	467	339.44-596.4073.43	-330.39	-422.11	9.508e+05	-2.175e+06	-8.254e+05	-3.991e+05	1.549e+06	
13	2	468	435.18-483.96-71.92	23.14	-457.11	1.633e+06	-1.497e+06	3.460e+05	-2.095e+05	1.540e+06	
13	2	469	517.33-361.37-189.44	345.40	-348.59	2.251e+06	-7.795e+05	1.450e+06	2.168e+04	1.336e+06	
13	2	470	581.93-233.69-207.98	556.22	-142.50	2.780e+06	-5.710e+04	2.371e+06	3.514e+05	9.959e+05	
13	2	471	626.62-107.04-98.08	617.66	80.57	3.200e+06	6.353e+05	3.044e+06	7.909e+05	6.123e+05	
13	2	472	651.0311.28116.30	546.00	236.98	3.502e+06	1.260e+06	3.466e+06	1.296e+06	2.811e+05	
13	2	473	657.67112.27367.03	402.92	272.11	3.688e+06	1.775e+06	3.685e+06	1.777e+06	6.577e+04	
13	2	474	653.21184.30567.89	269.63	180.91	3.776e+06	2.132e+06	3.776e+06	2.132e+06	-2.407e+04	
13	2	475	648.03213.71647.83	213.91	9.21	3.801e+06	2.278e+06	3.800e+06	2.278e+06	-3.233e+04	
13	2	476	649.08192.24578.38	262.93	-165.22	3.786e+06	2.183e+06	3.785e+06	2.184e+06	-3.596e+04	
13	2	477	651.67125.43384.77	392.33	-263.10	3.714e+06	1.869e+06	3.708e+06	1.876e+06	-1.123e+05	
13	2	478	645.3227.01136.52	535.82	-236.04	3.552e+06	1.384e+06	3.508e+06	1.429e+06	-3.080e+05	
13	2	479	622.74-90.02-79.40	612.11	-86.37	3.277e+06	7.763e+05	3.112e+06	9.414e+05	-6.210e+05	
13	2	480	581.35-215.56-192.75	558.54	132.88	2.883e+06	8.556e+04	2.465e+06	5.037e+05	-9.974e+05	

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-1151.29	-1151.09	-967.29	-587.60		-5.467e+06	-5.467e+06	-3.427e+06	-2.024e+06	
	904.30	900.35	832.58	580.76	5.033e+06		5.032e+06	3.044e+06	2.012e+06	



Macro	Tipo	Angolo 1-X (gradi)
14	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
14	1	451	767.57-357.49-121.14	531.23	458.31	3.279e+06	-7.526e+05	2.249e+06	2.777e+05	-1.758e+06		
14	1	452	621.40-561.81-55.45	115.04	585.43	2.459e+06	-1.755e+06	7.019e+05	1595.81	-2.078e+06		
14	1	453	447.68-747.1843.98	-343.47	565.15	1.529e+06	-2.699e+06	-9.643e+05	-2.058e+05	-2.080e+06		
14	1	454	253.79-905.9994.35	-746.55	399.38	5.343e+05	-3.542e+06	-2.524e+06	-4.835e+05	-1.764e+06		
14	1	455	48.47-1032.0029.33	-1012.86	142.53	-4.773e+05	-4.248e+06	-3.789e+06	-9.366e+05	-1.233e+06		
14	1	456	-158.23 -1120.87	-172.76	-1106.33	-117.40	-1.457e+06	-4.792e+06	-4.660e+06	-1.588e+06		-
6.485e+05												
14	1	457	-354.89 -1170.99	-477.68	-1048.21	-291.77	-2.354e+06	-5.158e+06	-5.148e+06	-2.365e+06		-
1.719e+05												
14	1	458	-527.80 -1185.12	-805.67	-907.25	-324.71	-3.113e+06	-5.349e+06	-5.346e+06	-3.117e+06	9.256e+04	
14	1	459	-657.72 -1174.09	-1059.82	-771.99	-214.36	-3.660e+06	-5.399e+06	-5.389e+06	-3.670e+06	1.336e+05	
14	1	460	-715.35 -1161.81	-1161.40	-715.77	-13.56	-3.885e+06	-5.391e+06	-5.390e+06	-3.886e+06	3.302e+04	
14	1	461	-677.37 -1169.50	-1078.87	-768.00	190.75	-3.708e+06	-5.398e+06	-5.395e+06	-3.711e+06		-
7.019e+04												
14	1	462	-559.73 -1182.44	-839.56	-902.60	309.75	-3.197e+06	-5.360e+06	-5.360e+06	-3.198e+06		-
3.666e+04												
14	1	463	-393.13 -1174.41	-519.40	-1048.14	287.59	-2.464e+06	-5.189e+06	-5.172e+06	-2.481e+06	2.158e+05	
14	1	464	-198.77 -1131.83	-215.03	-1115.57	122.09	-1.588e+06	-4.846e+06	-4.699e+06	-1.736e+06	6.769e+05	
14	1	465	8.80-1050.48 -8.44	-1033.24	-134.04	-6.267e+05	-4.328e+06	-3.847e+06	-1.108e+06	1.244e+06		
14	1	466	217.72-931.1062.26	-775.64	-392.97	3.700e+05	-3.648e+06	-2.608e+06	-6.693e+05	1.759e+06		
14	1	467	417.43-777.4915.05	-375.11	-564.71	1.355e+06	-2.832e+06	-1.080e+06	-3.974e+05	2.065e+06		
14	1	468	598.32-595.52-85.31	88.11	-590.59	2.283e+06	-1.915e+06	5.582e+05	-1.908e+05	2.065e+06		
14	1	469	752.20-392.89-154.29	513.60	-465.08	3.114e+06	-9.368e+05	2.094e+06	8.246e+04	1.758e+06		
14	1	470	872.01-178.13-121.76	815.64	-236.69	3.813e+06	5.884e+04	3.347e+06	5.248e+05	1.238e+06		
14	1	471	952.5939.14 39.26	952.47	10.65	4.355e+06	1.025e+06	4.218e+06	1.162e+06	6.611e+05		
14	1	472	990.94248.75301.16	938.53	190.13	4.724e+06	1.912e+06	4.711e+06	1.924e+06	1.861e+05		
14	1	473	987.20439.58591.24	835.54	245.05	4.921e+06	2.664e+06	4.918e+06	2.667e+06	-8.339e+04		
14	1	474	948.47596.11818.71	725.87	169.95	4.978e+06	3.210e+06	4.968e+06	3.220e+06	-1.340e+05		
14	1	475	909.71678.02909.09	678.64	11.99	4.975e+06	3.445e+06	4.974e+06	3.447e+06	-4.347e+04		
14	1	476	935.73618.52832.63	721.61	-148.58	4.981e+06	3.291e+06	4.979e+06	3.293e+06	5.449e+04		
14	1	477	976.30469.40616.00	829.70	-229.82	4.946e+06	2.805e+06	4.946e+06	2.805e+06	2.498e+04		
14	1	478	985.55281.70332.52	934.73	-182.16	4.785e+06	2.092e+06	4.768e+06	2.109e+06	-2.144e+05		
14	1	479	953.6873.73 73.82	953.58	-9.16	4.457e+06	1.225e+06	4.315e+06	1.367e+06	-6.625e+05		
14	1	480	880.01-142.63-86.52	823.91	232.87	3.952e+06	2.591e+05	3.483e+06	7.281e+05	-1.230e+06		
14	1	481	913.31-246.54-211.76	878.53	197.82	4.653e+06	4.127e+05	3.957e+06	1.108e+06	-1.570e+06		
14	1	482	812.29-448.50-218.99	582.79	486.50	3.792e+06	-7.512e+05	2.513e+06	5.276e+05	-2.043e+06		
14	1	483	681.90-640.69-88.48	129.69	652.24	2.780e+06	-1.930e+06	7.836e+05	6.637e+04	-2.328e+06		
14	1	484	526.46-815.6489.36	-378.54	628.95	1.663e+06	-3.064e+06	-1.055e+06	-3.461e+05	-2.337e+06		
14	1	485	352.25-966.78202.31	-816.84	418.68	4.957e+05	-4.103e+06	-2.802e+06	-8.052e+05	-2.071e+06		
14	1	486	167.74-1088.93160.80-1081.99		93.11	-6.639e+05	-5.006e+06	-4.292e+06	-1.379e+06	-1.610e+06		



14	1	487	-16.61-1178.98-65.09	-1130.50	-232.39	-1.756e+06	-5.743e+06	-5.427e+06	-2.072e+06	-1.078e+06			
5.981e+05	14	1	488	-188.55 -1236.85	-431.59	-993.81	-442.39	-2.720e+06	-6.296e+06	-6.193e+06	-2.823e+06	-	
2.541e+05	14	1	489	-333.78 -1266.37	-835.43	-764.72	-464.96	-3.492e+06	-6.665e+06	-6.644e+06	-3.513e+06	-	
6.004e+04	14	1	490	-435.81 -1276.00	-1151.03	-560.78	-298.97	-4.006e+06	-6.868e+06	-6.866e+06	-4.007e+06	-	
	14	1	491	-478.32 -1276.87	-1276.60	-478.59	-14.69	-4.200e+06	-6.935e+06	-6.935e+06	-4.200e+06	3.713e+04	
	14	1	492	-452.51 -1275.66	-1171.73	-556.45	273.41	-4.046e+06	-6.885e+06	-6.879e+06	-4.052e+06	1.328e+05	
	14	1	493	-363.58 -1268.23	-872.32	-759.49	448.79	-3.570e+06	-6.702e+06	-6.669e+06	-3.603e+06	3.217e+05	
	14	1	494	-226.57 -1243.61	-477.02	-993.15	438.18	-2.830e+06	-6.356e+06	-6.230e+06	-2.956e+06	6.566e+05	
	14	1	495	-58.17-1192.12-110.75-1139.54		238.44	-1.894e+06	-5.828e+06	-5.477e+06	-2.246e+06	1.122e+06		
	14	1	496	126.81-1108.54121.34-1103.07		-82.03	-8.276e+05	-5.117e+06	-4.359e+06	-1.586e+06	1.636e+06		
	14	1	497	315.67-991.88171.72	-847.93	-409.27	3.093e+05	-4.240e+06	-2.894e+06	-1.037e+06	2.077e+06		
	14	1	498	497.38-844.4666.14	-413.22	-626.65	1.459e+06	-3.227e+06	-1.178e+06	-5.903e+05	2.325e+06		
	14	1	499	662.35-671.13-108.77	99.99	-658.52	2.568e+06	-2.120e+06	6.274e+05	-1.797e+05	2.309e+06		
	14	1	500	802.60-478.73-240.93	564.80	-498.15	3.588e+06	-9.667e+05	2.339e+06	2.819e+05	2.032e+06		
	14	1	501	911.88-275.60-237.54	873.83	-209.14	4.477e+06	1.808e+05	3.798e+06	8.593e+05	1.567e+06		
	14	1	502	986.13-71.54-62.11	976.70	99.45	5.203e+06	1.265e+06	4.910e+06	1.559e+06	1.035e+06		
	14	1	503	1024.35	122.05	250.47	895.93	315.25	5.749e+06	2.227e+06	5.658e+06	2.318e+06	5.591e+05
	14	1	504	1030.11	291.15	606.51	714.75	365.50	6.113e+06	3.003e+06	6.097e+06	3.019e+06	2.216e+05
	14	1	505	1015.01	416.13	888.81	542.34	244.24	6.314e+06	3.526e+06	6.313e+06	3.527e+06	3.705e+04
4.760e+04	14	1	506	1001.43	469.36	1001.07	469.72	13.84	6.383e+06	3.736e+06	6.382e+06	3.737e+06	-
1.265e+05	14	1	507	1007.22	430.86	904.65	533.43	-220.45	6.340e+06	3.601e+06	6.334e+06	3.607e+06	-
2.931e+05	14	1	508	1019.98	314.40	633.44	700.94	-351.17	6.170e+06	3.145e+06	6.141e+06	3.173e+06	-
6.020e+05	14	1	509	1015.94	148.78	281.47	883.25	-312.18	5.843e+06	2.422e+06	5.733e+06	2.531e+06	-
	14	1	510	981.67-43.57-32.59	970.69	-105.52	5.339e+06	1.492e+06	5.027e+06	1.804e+06	-1.050e+06		
	14	2	451	566.31-300.46-101.63	367.48	364.42	2.452e+06	-6.494e+05	1.657e+06	1.455e+05	-1.354e+06		
	14	2	452	454.95-458.72-47.68	43.92	454.53	1.821e+06	-1.421e+06	4.672e+05	-6.639e+04	-1.599e+06		
	14	2	453	322.44-602.4228.80	-308.78	430.53	1.106e+06	-2.146e+06	-8.145e+05	-2.259e+05	-1.599e+06		
	14	2	454	174.53-725.8364.12	-615.42	295.33	3.406e+05	-2.794e+06	-2.014e+06	-4.400e+05	-1.356e+06		
	14	2	455	18.06-824.23	7.86	-814.03	92.13	-4.378e+05	-3.337e+06	-2.986e+06	-7.893e+05	-9.463e+05	
4.962e+05	14	2	456	-139.09	-894.43	-155.59	-877.94	-110.41	-1.192e+06	-3.755e+06	-3.655e+06	-1.292e+06	-
1.297e+05	14	2	457	-287.93	-935.44	-398.50	-824.87	-243.66	-1.882e+06	-4.037e+06	-4.029e+06	-1.890e+06	-
	14	2	458	-417.59	-949.65	-658.08	-709.16	-264.80	-2.466e+06	-4.183e+06	-4.180e+06	-2.469e+06	7.314e+04
	14	2	459	-513.35	-945.33	-858.52	-600.17	-173.11	-2.887e+06	-4.221e+06	-4.213e+06	-2.896e+06	1.039e+05
	14	2	460	-554.89	-938.68	-938.40	-555.18	-10.43	-3.061e+06	-4.214e+06	-4.214e+06	-3.062e+06	2.541e+04
5.504e+04	14	2	461	-527.61	-942.67	-873.17	-597.11	154.96	-2.925e+06	-4.220e+06	-4.218e+06	-2.927e+06	-
3.012e+04	14	2	462	-441.34	-948.40	-684.15	-705.59	253.30	-2.531e+06	-4.192e+06	-4.191e+06	-2.532e+06	-
	14	2	463	-316.79	-938.63	-430.59	-824.82	240.45	-1.967e+06	-4.061e+06	-4.048e+06	-1.980e+06	1.635e+05
	14	2	464	-169.92	-903.23	-188.10	-885.06	114.02	-1.293e+06	-3.797e+06	-3.685e+06	-1.405e+06	5.181e+05
	14	2	465	-12.22-838.68-21.19	-829.72	-85.60	-5.528e+05	-3.399e+06	-3.031e+06	-9.209e+05	9.549e+05		
	14	2	466	146.92-745.2939.45	-637.81	-290.41	2.141e+05	-2.876e+06	-2.079e+06	-5.829e+05	1.352e+06		



14	2	467	299.22-625.806.55	-333.13	-430.20	9.717e+05	-2.249e+06	-9.035e+05	-3.734e+05	1.588e+06	
14	2	468	437.17-484.63-70.65	23.19	-458.50	1.686e+06	-1.543e+06	3.566e+05	-2.144e+05	1.589e+06	
14	2	469	554.39-327.61-127.13	353.91	-369.64	2.325e+06	-7.911e+05	1.539e+06	-4693.84	1.354e+06	
14	2	470	645.35-161.21-108.36	592.50	-199.58	2.864e+06	-2.546e+04	2.503e+06	3.347e+05	9.544e+05	
14	2	471	705.967.30 7.51	705.75	-11.91	3.281e+06	7.173e+05	3.174e+06	8.237e+05	5.111e+05	
14	2	472	733.67170.34200.61	703.39	127.03	3.565e+06	1.399e+06	3.555e+06	1.409e+06	1.456e+05	
14	2	473	728.04319.87416.46	631.45	173.48	3.717e+06	1.977e+06	3.714e+06	1.979e+06	-6.223e+04	
14	2	474	692.98445.54586.50	552.03	122.51	3.761e+06	2.397e+06	3.754e+06	2.404e+06	-1.021e+05	
14	2	475	654.90516.82654.28	517.44	9.22	3.759e+06	2.577e+06	3.758e+06	2.578e+06	-3.345e+04	
14	2	476	681.78464.19597.22	548.75	-106.06	3.764e+06	2.459e+06	3.762e+06	2.461e+06	4.085e+04	
14	2	477	719.20343.27435.52	626.95	-161.76	3.736e+06	2.086e+06	3.736e+06	2.086e+06	1.728e+04	
14	2	478	729.43195.77224.74	700.47	-120.90	3.612e+06	1.538e+06	3.598e+06	1.551e+06	-1.674e+05	
14	2	479	706.8633.85 34.10	706.61	13.06	3.359e+06	8.712e+05	3.249e+06	9.816e+05	-5.122e+05	
14	2	480	651.62-134.01-81.25	598.86	196.63	2.971e+06	1.286e+05	2.608e+06	4.912e+05	-9.482e+05	
14	2	481	674.11-210.81-175.39	638.69	173.46	3.492e+06	2.352e+05	2.963e+06	7.644e+05	-1.201e+06	
14	2	482	599.16-368.92-173.36	403.60	388.68	2.831e+06	-6.610e+05	1.855e+06	3.153e+05	-1.567e+06	
14	2	483	501.40-519.30-68.81	50.91	506.83	2.054e+06	-1.569e+06	5.256e+05	-4.081e+04	-1.789e+06	
14	2	484	384.33-656.3867.99	-340.03	478.69	1.195e+06	-2.442e+06	-8.887e+05	-3.581e+05	-1.799e+06	
14	2	485	252.90-775.22150.71	-673.03	307.60	2.981e+05	-3.242e+06	-2.234e+06	-7.100e+05	-1.598e+06	
14	2	486	113.76-871.96111.18	-869.39	50.33	-5.929e+05	-3.938e+06	-3.382e+06	-1.149e+06	-1.245e+06	
14	2	487	-24.95-944.34-72.30	-896.98	-203.22	-1.432e+06	-4.506e+06	-4.258e+06	-1.679e+06	-8.364e+05	
14	2	488	-153.75 -992.31	-364.40	-781.67	-363.69	-2.172e+06	-4.932e+06	-4.851e+06	-2.254e+06	-
4.672e+05											
14	2	489	-261.79 -1018.70	-683.90	-596.59	-375.93	-2.765e+06	-5.217e+06	-5.201e+06	-2.782e+06	-
2.010e+05											
14	2	490	-337.03 -1029.36	-932.68	-433.71	-239.97	-3.159e+06	-5.374e+06	-5.373e+06	-3.160e+06	-
4.925e+04											
14	2	491	-368.16 -1031.59	-1031.39	-368.36	-11.30	-3.308e+06	-5.427e+06	-5.426e+06	-3.308e+06	2.856e+04
14	2	492	-349.37 -1029.60	-948.60	-430.37	220.32	-3.190e+06	-5.388e+06	-5.383e+06	-3.195e+06	1.052e+05
14	2	493	-284.02 -1020.82	-712.27	-592.57	363.50	-2.824e+06	-5.246e+06	-5.219e+06	-2.851e+06	2.531e+05
14	2	494	-182.36 -998.15	-399.34	-781.17	360.45	-2.256e+06	-4.979e+06	-4.879e+06	-2.356e+06	5.122e+05
14	2	495	-56.43-954.94-107.42	-903.95	207.88	-1.538e+06	-4.571e+06	-4.297e+06	-1.813e+06	8.707e+05	
14	2	496	82.64-887.4280.84	-885.62	-41.80	-7.186e+05	-4.023e+06	-3.434e+06	-1.308e+06	1.265e+06	
14	2	497	225.05-794.82127.19	-696.96	-300.37	1.549e+05	-3.348e+06	-2.304e+06	-8.884e+05	1.602e+06	
14	2	498	362.19-678.7850.13	-366.73	-476.93	1.038e+06	-2.568e+06	-9.833e+05	-5.460e+05	1.790e+06	
14	2	499	486.57-542.93-84.41	28.05	-511.67	1.891e+06	-1.715e+06	4.055e+05	-2.302e+05	1.775e+06	
14	2	500	591.93-392.40-190.24	389.76	-397.65	2.674e+06	-8.270e+05	1.721e+06	1.262e+05	1.558e+06	
14	2	501	673.29-233.45-195.23	635.08	-182.18	3.357e+06	5.673e+04	2.841e+06	5.727e+05	1.199e+06	
14	2	502	727.33-73.40-70.01	723.94	52.04	3.915e+06	8.920e+05	3.693e+06	1.114e+06	7.884e+05	
14	2	503	752.9779.27160.26	671.98	219.11	4.333e+06	1.633e+06	4.266e+06	1.701e+06	4.229e+05	
14	2	504	752.59214.16425.29	541.47	262.88	4.612e+06	2.231e+06	4.601e+06	2.243e+06	1.649e+05	
14	2	505	735.19316.08636.43	414.85	177.88	4.765e+06	2.635e+06	4.765e+06	2.635e+06	2.543e+04	
14	2	506	720.97360.80720.66	361.11	10.65	4.818e+06	2.797e+06	4.817e+06	2.797e+06	-3.662e+04	
14	2	507	728.15328.47648.62	408.00	-159.57	4.785e+06	2.693e+06	4.781e+06	2.697e+06	-9.423e+04	
14	2	508	743.82233.02446.01	530.84	-251.86	4.655e+06	2.340e+06	4.634e+06	2.362e+06	-2.198e+05	
14	2	509	745.85100.48184.12	662.22	-216.75	4.405e+06	1.783e+06	4.323e+06	1.865e+06	-4.559e+05	
14	2	510	723.48-51.47-47.29	719.31	-56.71	4.019e+06	1.067e+06	3.783e+06	1.302e+06	-7.998e+05	



M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-1276.87	-1276.60	-1139.54	-658.52		-6.935e+06	-6.935e+06	-4.200e+06	-2.337e+06	
	1030.11		1001.07	976.70	652.24	6.383e+06		6.382e+06	3.737e+06	2.325e+06

Macro	Tipo	Angolo 1-X (gradi)
15	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
15	1	481	969.95-183.33-126.04		912.66	250.59	4.721e+06	4.509e+05	4.077e+06	1.095e+06	-1.528e+06	
15	1	482	851.12-416.15-157.69		592.65	510.63	3.858e+06	-7.522e+05	2.603e+06	5.030e+05	-2.052e+06	
15	1	483	695.91-636.82-71.60		130.69	658.65	2.832e+06	-1.963e+06	8.109e+05	5.816e+04	-2.368e+06	
15	1	484	510.40-836.3554.90		-380.85	637.15	1.691e+06	-3.120e+06	-1.101e+06	-3.279e+05	-2.374e+06	
15	1	485	302.21-1006.66125.06		-829.51	447.75	4.903e+05	-4.172e+06	-2.909e+06	-7.727e+05	-2.072e+06	
15	1	486	80.83-1141.2161.28		-1121.66	153.34	-7.103e+05	-5.076e+06	-4.425e+06	-1.361e+06	-1.555e+06	
15	1	487	-142.57	-1235.63	-161.97	-1216.22	-144.33	-1.851e+06	-5.802e+06	-5.548e+06	-2.105e+06	-
9.701e+05												
15	1	488	-355.23	-1288.60	-505.39	-1138.43	-342.95	-2.869e+06	-6.332e+06	-6.269e+06	-2.932e+06	-
4.635e+05												
15	1	489	-541.64	-1303.70	-877.17	-968.18	-378.30	-3.697e+06	-6.667e+06	-6.661e+06	-3.703e+06	-
1.310e+05												
15	1	490	-680.52	-1293.15	-1165.86	-807.81	-248.55	-4.259e+06	-6.835e+06	-6.835e+06	-4.259e+06	1.352e+04
15	1	491	-741.45	-1281.47	-1281.06	-741.85	-14.86	-4.475e+06	-6.885e+06	-6.885e+06	-4.476e+06	3.781e+04
15	1	492	-701.87	-1288.89	-1186.76	-804.00	222.54	-4.304e+06	-6.848e+06	-6.847e+06	-4.305e+06	6.026e+04
15	1	493	-577.00	-1301.48	-914.59	-963.89	361.40	-3.781e+06	-6.698e+06	-6.684e+06	-3.794e+06	1.989e+05
15	1	494	-398.07	-1292.82	-551.92	-1138.97	337.61	-2.985e+06	-6.386e+06	-6.304e+06	-3.067e+06	5.211e+05
15	1	495	-188.30	-1247.83	-209.65	-1226.48	148.89	-1.995e+06	-5.882e+06	-5.598e+06	-2.280e+06	1.013e+06
15	1	496	36.00-1161.3018.43		-1143.73	-143.97	-8.800e+05	-5.184e+06	-4.494e+06	-1.569e+06	1.578e+06	
15	1	497	261.58-1033.5789.20		-861.19	-439.94	2.986e+05	-4.307e+06	-3.004e+06	-1.004e+06	2.075e+06	
15	1	498	476.82-868.4224.12		-415.72	-635.65	1.482e+06	-3.285e+06	-1.232e+06	-5.711e+05	2.361e+06	
15	1	499	671.24-672.10-101.68		100.81	-663.99	2.616e+06	-2.158e+06	6.444e+05	-1.868e+05	2.350e+06	
15	1	500	835.94-452.81-190.45		573.58	-518.93	3.650e+06	-9.753e+05	2.418e+06	2.570e+05	2.045e+06	
15	1	501	963.44-219.83-161.30		904.92	-256.57	4.543e+06	2.092e+05	3.910e+06	8.424e+05	1.531e+06	
15	1	502	1048.32	16.26	16.93	1047.64	26.44	5.262e+06	1.338e+06	5.016e+06	1.583e+06	9.498e+05
15	1	503	1087.71	244.10	312.56	1019.25	230.36	5.788e+06	2.349e+06	5.729e+06	2.408e+06	4.463e+05
15	1	504	1082.56	450.86	642.06	891.36	290.22	6.123e+06	3.177e+06	6.118e+06	3.182e+06	1.156e+05
15	1	505	1042.32	617.93	901.18	759.08	199.95	6.292e+06	3.746e+06	6.292e+06	3.746e+06	-
2.748e+04												
15	1	506	1004.99	701.49	1004.35	702.13	13.94	6.345e+06	3.978e+06	6.344e+06	3.979e+06	-
4.864e+04												
15	1	507	1028.72	641.14	917.24	752.62	-175.44	6.313e+06	3.828e+06	6.311e+06	3.830e+06	-
6.317e+04												
15	1	508	1069.57	482.45	670.03	881.99	-273.76	6.173e+06	3.330e+06	6.161e+06	3.342e+06	-
1.858e+05												
15	1	509	1079.98	278.65	346.61	1012.02	-223.25	5.878e+06	2.556e+06	5.806e+06	2.628e+06	-
4.851e+05												
15	1	510	1047.28	51.98	52.71	1046.55	-26.99	5.397e+06	1.576e+06	5.139e+06	1.833e+06	-



9.582e+05													
15	1	511	1097.15	-102.50	-82.91	1077.56	-152.04	6.491e+06	1.889e+06	5.955e+06	2.425e+06	-	
1.476e+06													
15	1	512	1024.50	-321.48	-288.97	991.99	206.63	5.554e+06	6.679e+05	4.588e+06	1.634e+06	-	
1.946e+06													
15	1	513	918.72-538.59-286.34	666.47		551.34	4.432e+06	-6.921e+05	2.870e+06	8.699e+05	-2.359e+06	-	
15	1	514	782.20-744.64-115.47	153.04		751.52	3.157e+06	-2.104e+06	8.911e+05	1.621e+05	-2.605e+06	-	
15	1	515	618.40-931.99113.92	-427.52		726.39	1.788e+06	-3.494e+06	-1.186e+06	-5.208e+05	-2.620e+06	-	
15	1	516	433.74-1093.94265.64	-925.85		478.06	3.935e+05	-4.802e+06	-3.184e+06	-1.225e+06	-2.406e+06	-	
15	1	517	237.59-1225.17231.68-1219.27			92.73	-9.548e+05	-5.979e+06	-4.961e+06	-1.973e+06	-2.019e+06	-	
15	1	518	41.59-1322.62-23.89	-1257.14		-291.62	-2.189e+06	-6.983e+06	-6.420e+06	-2.752e+06	-1.543e+06	-	
15	1	519	-140.71	-1386.46	-448.95	-1078.22	-537.56	-3.245e+06	-7.784e+06	-7.521e+06	-3.507e+06	-	
1.060e+06													
15	1	520	-293.80	-1420.84	-920.66	-793.97	-559.95	-4.059e+06	-8.365e+06	-8.270e+06	-4.153e+06	-	
6.293e+05													
15	1	521	-400.57	-1434.17	-1290.02	-544.72	-358.07	-4.581e+06	-8.719e+06	-8.701e+06	-4.599e+06	-	
2.692e+05													
15	1	522	-445.05	-1436.76	-1436.50	-445.31	-15.97	-4.772e+06	-8.847e+06	-8.846e+06	-4.773e+06	4.253e+04	
15	1	523	-419.05	-1434.49	-1312.61	-540.94	330.02	-4.619e+06	-8.750e+06	-8.720e+06	-4.649e+06	3.539e+05	
15	1	524	-327.24	-1423.76	-961.35	-789.65	541.50	-4.134e+06	-8.428e+06	-8.307e+06	-4.255e+06	7.113e+05	
15	1	525	-183.95	-1394.53	-499.92	-1078.57	531.67	-3.355e+06	-7.878e+06	-7.572e+06	-3.660e+06	1.136e+06	
15	1	526	-6.24-1337.25-76.28	-1267.21		297.18	-2.334e+06	-7.107e+06	-6.485e+06	-2.956e+06	1.607e+06	-	
15	1	527	190.03-1246.28185.51-1241.75			-80.51	-1.133e+06	-6.131e+06	-5.041e+06	-2.223e+06	2.064e+06	-	
15	1	528	390.98-1120.25230.13	-959.40		-466.06	1.826e+05	-4.981e+06	-3.287e+06	-1.512e+06	2.424e+06	-	
15	1	529	584.47-961.3389.30	-466.16		-721.28	1.547e+06	-3.699e+06	-1.322e+06	-8.296e+05	2.612e+06	-	
15	1	530	760.10-774.58-133.15	118.67		-756.94	2.898e+06	-2.336e+06	7.131e+05	-1.520e+05	2.581e+06	-	
15	1	531	909.20-567.20-303.45	645.45		-565.54	4.174e+06	-9.523e+05	2.663e+06	5.583e+05	2.337e+06	-	
15	1	532	1025.29	-348.37	-311.10	988.02	-223.17	5.324e+06	3.899e+05	4.391e+06	1.323e+06	1.932e+06	
15	1	533	1104.34	-128.94	-112.70	1088.10	140.59	6.306e+06	1.624e+06	5.804e+06	2.127e+06	1.449e+06	
15	1	534	1145.83	78.24	250.34	973.74	392.57	7.090e+06	2.686e+06	6.864e+06	2.911e+06	9.712e+05	
15	1	535	1154.38	257.32	666.96	744.74	446.84	7.658e+06	3.512e+06	7.582e+06	3.588e+06	5.583e+05	
15	1	536	1142.46	387.07	998.33	531.21	296.82	8.007e+06	4.048e+06	7.994e+06	4.061e+06	2.261e+05	
15	1	537	1130.88	440.94	1130.47	441.35	16.81	8.139e+06	4.256e+06	8.138e+06	4.257e+06	-	
5.139e+04													
15	1	538	1134.41	401.70	1017.54	518.57	-268.28	8.054e+06	4.123e+06	8.027e+06	4.150e+06	-	
3.252e+05													
15	1	539	1142.97	280.66	699.08	724.55	-430.97	7.751e+06	3.660e+06	7.647e+06	3.764e+06	-	
6.435e+05													
15	1	540	1135.17	104.56	285.46	954.27	-392.06	7.228e+06	2.903e+06	6.967e+06	3.163e+06	-	
1.030e+06													
15	2	481	717.60-167.36-113.29	663.53		211.96	3.544e+06	2.616e+05	3.052e+06	7.540e+05	-1.172e+06	-	
15	2	482	627.66-347.92-130.78	410.52		405.82	2.881e+06	-6.643e+05	1.919e+06	2.977e+05	-1.576e+06	-	
15	2	483	509.63-519.03-60.81	51.41		511.26	2.092e+06	-1.596e+06	5.412e+05	-4.517e+04	-1.821e+06	-	
15	2	484	368.30-673.8936.49	-342.08		485.50	1.215e+06	-2.487e+06	-9.297e+05	-3.421e+05	-1.827e+06	-	
15	2	485	209.67-806.4186.71	-683.45		331.39	2.915e+05	-3.296e+06	-2.321e+06	-6.837e+05	-1.596e+06	-	
15	2	486	41.14-911.6730.80	-901.33		98.74	-6.316e+05	-3.992e+06	-3.488e+06	-1.135e+06	-1.199e+06	-	
15	2	487	-128.54	-986.46	-149.71	-965.30	-133.08	-1.508e+06	-4.551e+06	-4.353e+06	-1.706e+06	-	
7.499e+05													
15	2	488	-289.32	-1030.01	-423.05	-896.29	-284.90	-2.291e+06	-4.959e+06	-4.910e+06	-2.340e+06	-	
3.601e+05													
15	2	489	-429.04	-1045.32	-717.02	-757.34	-307.48	-2.927e+06	-5.218e+06	-5.213e+06	-2.932e+06	-	



1.036e+05

15	2	490	-531.50	-1041.56	-944.51	-628.56	-200.21	-3.359e+06	-5.348e+06	-5.348e+06	-3.359e+06	8869.48	
15	2	491	-575.62	-1035.32	-1035.04	-575.91	-11.43	-3.525e+06	-5.386e+06	-5.386e+06	-3.525e+06	2.909e+04	
15	2	492	-547.09	-1039.12	-960.58	-625.63	180.21	-3.394e+06	-5.358e+06	-5.356e+06	-3.395e+06	4.790e+04	
15	2	493	-455.40	-1044.44	-745.80	-754.05	294.49	-2.992e+06	-5.242e+06	-5.231e+06	-3.003e+06	1.558e+05	
15	2	494	-321.70	-1033.84	-458.83	-896.71	280.80	-2.380e+06	-5.001e+06	-4.937e+06	-2.444e+06	4.044e+05	
15	2	495	-163.34	-996.24	-186.38	-973.20	136.59	-1.620e+06	-4.613e+06	-4.392e+06	-1.841e+06	7.827e+05	
15	2	496	6.90-927.38	-2.16	-918.32		-91.54	-7.621e+05	-4.075e+06	-3.542e+06	-1.295e+06	1.217e+06	
15	2	497	178.57-827.2759.14		-707.84		-325.37	1.441e+05	-3.400e+06	-2.394e+06	-8.620e+05	1.598e+06	
15	2	498	342.56-698.6512.83		-368.92		-484.35	1.054e+06	-2.614e+06	-1.030e+06	-5.293e+05	1.817e+06	
15	2	499	490.67-546.20-83.94		28.42		-515.38	1.926e+06	-1.746e+06	4.131e+05	-2.337e+05	1.807e+06	
15	2	500	615.96-376.11-155.98		395.84		-412.22	2.721e+06	-8.360e+05	1.777e+06	1.083e+05	1.571e+06	
15	2	501	712.56-195.41-140.42		657.57		-216.58	3.407e+06	7.560e+04	2.923e+06	5.598e+05	1.174e+06	
15	2	502	776.14-12.09-12.09		776.13		-1.73	3.960e+06	9.441e+05	3.773e+06	1.131e+06	7.269e+05	
15	2	503	804.22165.40206.14		763.47		156.11	4.364e+06	1.723e+06	4.320e+06	1.767e+06	3.397e+05	
15	2	504	796.89327.80451.62		673.08		206.76	4.621e+06	2.360e+06	4.618e+06	2.364e+06	8.609e+04	
15	2	505	759.94462.32645.52		576.74		144.79	4.750e+06	2.799e+06	4.750e+06	2.799e+06	-2.268e+04	
15	2	506	723.58534.24722.97		534.85		10.72	4.790e+06	2.977e+06	4.790e+06	2.978e+06	-3.742e+04	
15	2	507	747.91481.74657.88		571.77		-125.93	4.766e+06	2.862e+06	4.765e+06	2.863e+06	-4.706e+04	
15	2	508	786.21352.80473.14		665.87		-194.10	4.660e+06	2.478e+06	4.650e+06	2.487e+06	-1.402e+05	
15	2	509	798.02192.23232.35		757.90		-150.64	4.433e+06	1.882e+06	4.378e+06	1.937e+06	-3.695e+05	
15	2	510	775.2915.44	15.44	775.29		1.29	4.064e+06	1.127e+06	3.867e+06	1.324e+06	-7.333e+05	
15	2	511	807.51-97.26-88.32		798.57		-89.51	4.880e+06	1.360e+06	4.479e+06	1.761e+06	-1.118e+06	
15	2	512	755.56-269.63-235.91		721.83		182.85	4.163e+06	4.175e+05	3.435e+06	1.145e+06	-1.482e+06	
15	2	513	677.62-440.08-225.36		462.90		440.33	3.303e+06	-6.315e+05	2.119e+06	5.521e+05	-1.804e+06	
15	2	514	575.80-601.77-89.26		63.29		583.83	2.325e+06	-1.720e+06	5.995e+05	4734.58	-2.001e+06	
15	2	515	452.93-749.0187.20		-383.29		553.01	1.274e+06	-2.792e+06	-9.980e+05	-5.206e+05	-2.019e+06	
15	2	516	314.07-876.78199.24		-761.95		351.51	2.039e+05	-3.801e+06	-2.538e+06	-1.059e+06	-1.861e+06	
15	2	517	166.55-981.09164.58		-979.12		47.42	-8.305e+05	-4.709e+06	-3.910e+06	-1.629e+06	-1.569e+06	
15	2	518	19.42-1059.69-42.93		-997.34		-251.78	-1.777e+06	-5.484e+06	-5.040e+06	-2.222e+06	-1.204e+06	
15	2	519	-116.90	-1112.71	-381.31		-848.30	-439.76	-2.586e+06	-6.103e+06	-5.894e+06	-2.795e+06	-
8.319e+05													
15	2	520	-230.69	-1143.12	-754.11		-619.71	-451.24	-3.211e+06	-6.552e+06	-6.477e+06	-3.286e+06	-
4.970e+05													
15	2	521	-309.49	-1156.71	-1044.98		-421.22	-286.66	-3.610e+06	-6.826e+06	-6.812e+06	-3.625e+06	-
2.141e+05													
15	2	522	-342.19	-1160.23	-1160.04		-342.37	-12.29	-3.757e+06	-6.926e+06	-6.925e+06	-3.757e+06	3.272e+04
15	2	523	-323.24	-1157.43	-1062.35		-418.32	265.10	-3.639e+06	-6.851e+06	-6.826e+06	-3.664e+06	2.793e+05
15	2	524	-255.74	-1146.05	-785.40		-616.39	437.06	-3.268e+06	-6.601e+06	-6.504e+06	-3.365e+06	5.601e+05
15	2	525	-149.53	-1119.56	-420.52		-848.57	435.24	-2.670e+06	-6.176e+06	-5.933e+06	-2.913e+06	8.902e+05
15	2	526	-16.87-1071.45-83.22		-1005.10		256.06	-1.888e+06	-5.580e+06	-5.089e+06	-2.379e+06	1.253e+06	
15	2	527	130.36-997.72129.08		-996.44		-38.02	-9.670e+05	-4.827e+06	-3.972e+06	-1.822e+06	1.603e+06	
15	2	528	281.49-897.35171.93		-787.78		-342.28	4.224e+04	-3.939e+06	-2.617e+06	-1.280e+06	1.875e+06	
15	2	529	427.13-771.9068.27		-413.03		-549.09	1.089e+06	-2.950e+06	-1.103e+06	-7.583e+05	2.013e+06	
15	2	530	559.13-625.14-102.85		36.84		-588.00	2.125e+06	-1.900e+06	4.626e+05	-2.370e+05	1.982e+06	
15	2	531	670.70-462.49-238.52		446.73		-451.27	3.104e+06	-8.321e+05	1.960e+06	3.123e+05	1.787e+06	
15	2	532	756.67-290.83-252.94		718.78		-195.59	3.986e+06	2.032e+05	3.284e+06	9.058e+05	1.471e+06	
15	2	533	813.72-118.28-111.25		806.68		80.68	4.739e+06	1.156e+06	4.363e+06	1.531e+06	1.097e+06	



15	2	534	841.1845.55156.60	730.13	275.72	5.339e+06	1.975e+06	5.172e+06	2.142e+06	7.305e+05
15	2	535	842.34188.71467.14	563.92	323.21	5.773e+06	2.613e+06	5.717e+06	2.669e+06	4.165e+05
15	2	536	827.27294.42715.29	406.41	217.10	6.040e+06	3.027e+06	6.031e+06	3.037e+06	1.668e+05
15	2	537	814.90339.32814.55	339.67	12.93	6.140e+06	3.188e+06	6.140e+06	3.189e+06	-3.953e+04
15	2	538	820.02306.73730.07	396.68	-195.14	6.076e+06	3.085e+06	6.056e+06	3.105e+06	-2.431e+05
15	2	539	832.40207.84491.86	548.38	-311.00	5.844e+06	2.728e+06	5.768e+06	2.804e+06	-4.821e+05
15	2	540	832.0666.72183.63	715.15	-275.33	5.444e+06	2.142e+06	5.251e+06	2.336e+06	-7.756e+05

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-1436.76	-1436.50	-1267.21	-756.94		-8.847e+06	-8.846e+06	-4.773e+06	-2.620e+06	
	1154.38		1130.47	1088.10	751.52	8.139e+06		8.138e+06	4.257e+06	2.612e+06

Macro	Tipo	Angolo 1-X (gradi)
16	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
16	1	511	1157.65	-4.39	0.17	1153.09	-72.63	6.539e+06	1.988e+06	6.073e+06	2.453e+06	-
1.379e+06												
16	1	512	1078.93	-257.25	-204.25	1025.93	260.79	5.620e+06	7.123e+05	4.717e+06	1.616e+06	-
1.902e+06												
16	1	513	957.29-506.57-225.35	676.08	576.69	4.502e+06	-6.941e+05	2.967e+06	8.408e+05	-2.371e+06		
16	1	514	797.16-741.75-98.59	154.00	759.02	3.216e+06	-2.142e+06	9.211e+05	1.525e+05	-2.651e+06		
16	1	515	603.80-953.3980.06	-429.64	735.70	1.821e+06	-3.555e+06	-1.235e+06	-5.001e+05	-2.663e+06		
16	1	516	384.99-1133.30189.85	-938.16	508.14	3.883e+05	-4.872e+06	-3.297e+06	-1.187e+06	-2.409e+06		
16	1	517	151.18-1275.08134.44	-1258.34	153.64	-1.009e+06	-6.043e+06	-5.103e+06	-1.950e+06	-1.963e+06		
16	1	518	-85.03-1374.72-117.91	-1341.84	-203.28	-2.300e+06	-7.028e+06	-6.547e+06	-2.781e+06	-1.429e+06		
16	1	519	-309.07	-1431.76	-519.58	-1221.25	-438.20	-3.416e+06	-7.800e+06	-7.599e+06	-3.617e+06	-
9.169e+05												
16	1	520	-503.28	-1451.11	-959.19	-995.20	-473.58	-4.287e+06	-8.348e+06	-8.285e+06	-4.349e+06	-
4.982e+05												
16	1	521	-644.69	-1446.00	-1301.70	-788.99	-307.91	-4.851e+06	-8.674e+06	-8.664e+06	-4.861e+06	-
1.908e+05												
16	1	522	-705.20	-1438.22	-1437.86	-705.56	-16.21	-5.059e+06	-8.790e+06	-8.789e+06	-5.060e+06	4.317e+04
16	1	523	-666.89	-1443.17	-1324.53	-785.52	279.32	-4.892e+06	-8.702e+06	-8.682e+06	-4.912e+06	2.765e+05
16	1	524	-541.47	-1450.41	-1000.43	-991.45	454.44	-4.367e+06	-8.405e+06	-8.320e+06	-4.452e+06	5.805e+05
16	1	525	-356.60	-1437.33	-571.57	-1222.36	431.41	-3.533e+06	-7.888e+06	-7.649e+06	-3.772e+06	9.920e+05
16	1	526	-136.57	-1388.23	-172.04	-1352.77	207.68	-2.452e+06	-7.146e+06	-6.612e+06	-2.987e+06	1.491e+06
16	1	527	100.16-1296.3685.40	-1281.60	-142.81	-1.194e+06	-6.191e+06	-5.184e+06	-2.201e+06	2.004e+06		
16	1	528	338.59-1161.07149.75	-972.24	-497.53	1.712e+05	-5.049e+06	-3.404e+06	-1.474e+06	2.425e+06		
16	1	529	565.76-985.7348.47	-468.44	-731.42	1.575e+06	-3.761e+06	-1.378e+06	-8.079e+05	2.653e+06		
16	1	530	770.33-776.66-125.94	119.61	-763.69	2.951e+06	-2.379e+06	7.323e+05	-1.603e+05	2.628e+06		
16	1	531	942.64-542.30-253.88	654.23	-587.45	4.240e+06	-9.630e+05	2.748e+06	5.292e+05	2.353e+06		
16	1	532	1075.04	-292.85	-236.69	1018.88	-271.41	5.389e+06	4.223e+05	4.510e+06	1.301e+06	1.895e+06
16	1	533	1162.19	-39.89	-36.12	1158.42	67.20	6.356e+06	1.708e+06	5.917e+06	2.147e+06	1.359e+06
16	1	534	1201.98	203.56	309.64	1095.90	307.66	7.114e+06	2.826e+06	6.938e+06	3.002e+06	8.512e+05





16	1	535	1197.28	421.93	699.63	919.59	371.75	7.652e+06	3.705e+06	7.602e+06	3.756e+06	4.452e+05
16	1	536	1161.46	592.09	1007.85	745.70	252.71	7.975e+06	4.283e+06	7.968e+06	4.290e+06	1.572e+05
16	1	537	1131.57	670.64	1130.94	671.26	16.93	8.094e+06	4.509e+06	8.094e+06	4.510e+06	-
5.264e+04												
16	1	538	1148.23	614.43	1027.28	735.38	-223.47	8.018e+06	4.364e+06	8.000e+06	4.382e+06	-
2.579e+05												
16	1	539	1182.23	454.28	732.73	903.77	-353.79	7.740e+06	3.865e+06	7.666e+06	3.939e+06	-
5.294e+05												
16	1	540	1190.94	238.84	347.72	1082.05	-303.00	7.247e+06	3.057e+06	7.042e+06	3.262e+06	-
9.052e+05												
16	1	541	1316.37	292.93	1176.44	432.87	-351.61	1.031e+07	4.594e+06	1.024e+07	4.668e+06	-
6.457e+05												
16	1	542	1316.65	331.06	1316.17	331.53	21.72	1.045e+07	4.726e+06	1.045e+07	4.727e+06	-
5.271e+04												
16	1	543	1324.38	279.01	1151.66	451.73	388.23	1.024e+07	4.522e+06	1.019e+07	4.574e+06	5.398e+05
16	1	544	1329.42	149.78	740.44	738.76	589.82	9.694e+06	3.987e+06	9.472e+06	4.209e+06	1.103e+06
16	1	545	1315.17	-33.74	225.90	1055.53	531.80	8.837e+06	3.140e+06	8.335e+06	3.642e+06	1.614e+06
16	1	546	1269.35	-249.96	-216.96	1236.35	221.48	7.707e+06	2.015e+06	6.830e+06	2.891e+06	2.055e+06
16	1	547	1186.30	-481.25	-447.92	1152.97	-233.37	6.354e+06	6.567e+05	5.022e+06	1.989e+06	2.412e+06
16	1	548	1065.67	-713.10	-414.70	767.27	-664.63	4.839e+06	-8.763e+05	2.984e+06	9.789e+05	2.676e+06
16	1	549	911.05-933.47-172.54	150.12		-908.04	3.227e+06	-2.519e+06	7.979e+05	-8.953e+04	2.839e+06	
16	1	550	729.04-1132.43137.99	-541.38		-866.53	1.590e+06	-4.200e+06	-1.449e+06	-1.161e+06	2.892e+06	
16	1	551	528.76-1302.40346.26-1119.90			-548.53	-1596.12	-5.846e+06	-3.666e+06	-2.181e+06	2.826e+06	
16	1	552	321.43-1438.36318.95-1435.88			-66.11	-1.480e+06	-7.384e+06	-5.761e+06	-3.103e+06	2.636e+06	
16	1	553	120.17-1538.4413.80	-1432.07		406.34	-2.782e+06	-8.745e+06	-7.638e+06	-3.889e+06	2.318e+06	
16	1	554	-60.15-1604.36-501.10-1163.41			697.48	-3.853e+06	-9.867e+06	-9.207e+06	-4.512e+06	1.879e+06	
16	1	555	-203.31	-1641.63	-1070.18	-774.76	703.83	-4.646e+06	-1.070e+07	-1.039e+07	-4.957e+06	1.335e+06
16	1	556	-293.22	-1658.52	-1506.82	-444.92	429.07	-5.130e+06	-1.120e+07	-1.112e+07	-5.214e+06	7.128e+05
16	1	557	-317.62	-1662.84	-1662.62	-317.84	-17.21	-5.282e+06	-1.136e+07	-1.136e+07	-5.282e+06	4.974e+04
16	1	558	-272.87	-1657.17	-1482.46	-447.58	-459.71	-5.095e+06	-1.116e+07	-1.109e+07	-5.158e+06	-
6.124e+05												
16	1	559	-165.83	-1637.18	-1025.55	-777.46	-725.14	-4.577e+06	-1.060e+07	-1.034e+07	-4.842e+06	-
1.234e+06												
16	1	560	-10.67-1594.78-443.69-1161.76			-706.01	-3.748e+06	-9.727e+06	-9.139e+06	-4.336e+06	-1.781e+06	
16	1	561	176.02-1522.6574.85	-1421.48		-402.03	-2.640e+06	-8.566e+06	-7.555e+06	-3.651e+06	-2.229e+06	
16	1	562	378.06-1416.76374.51-1413.21			79.78	-1.297e+06	-7.172e+06	-5.665e+06	-2.804e+06	-2.566e+06	
16	1	563	580.77-1276.79388.96-1084.98			565.24	2.254e+05	-5.607e+06	-3.553e+06	-1.829e+06	-2.786e+06	
16	1	564	771.23-1105.65163.85	-498.27		878.10	1.864e+06	-3.937e+06	-1.303e+06	-7.706e+05	-2.888e+06	
16	1	565	938.94-908.56-162.01	192.39		906.59	3.542e+06	-2.232e+06	9.936e+05	3.156e+05	-2.867e+06	
16	1	566	1076.82	-691.60	-410.32	795.53	646.77	5.169e+06	-5.624e+05	3.226e+06	1.381e+06	-
2.713e+06												
16	1	567	1182.91	-461.73	-435.54	1156.71	205.89	6.662e+06	9.881e+05	5.264e+06	2.386e+06	-
2.445e+06												
16	1	568	1258.44	-228.18	-186.84	1217.09	-244.44	7.966e+06	2.317e+06	7.024e+06	3.259e+06	-
2.106e+06												
16	1	569	1301.56	-9.32	269.16	1023.08	-536.19	9.042e+06	3.372e+06	8.478e+06	3.936e+06	-
1.697e+06												
16	1	570	1316.77	172.28	781.76	707.29	-571.03	9.838e+06	4.136e+06	9.571e+06	4.403e+06	-
1.205e+06												
16	2	511	855.45-28.28-27.20	854.38		-30.77	4.918e+06	1.431e+06	4.569e+06	1.781e+06	-1.047e+06	
16	2	512	797.50-225.38-174.47	746.58		222.46	4.214e+06	4.480e+05	3.530e+06	1.131e+06	-1.451e+06	
16	2	513	706.08-419.32-182.91	469.67		458.44	3.356e+06	-6.358e+05	2.189e+06	5.312e+05	-1.816e+06	



16	2	514	584.88-602.20-81.13	63.80	589.10	2.368e+06	-1.752e+06	6.171e+05	-494.62	-2.037e+06	
16	2	515	438.13-766.9956.29	-385.15	560.67	1.297e+06	-2.840e+06	-1.041e+06	-5.025e+05	-2.051e+06	
16	2	516	271.92-907.50136.47	-772.05	376.04	1.970e+05	-3.856e+06	-2.630e+06	-1.028e+06	-1.861e+06	
16	2	517	94.45-1018.9486.05	-1010.54	96.33	-8.758e+05	-4.758e+06	-4.023e+06	-1.611e+06	-1.521e+06	
16	2	518	-84.45-1098.39-118.04-1064.79		-181.47	-1.867e+06	-5.518e+06	-5.140e+06	-2.245e+06	-1.113e+06	
7.181e+05	16	2	519	-253.37 -1145.69 -437.46	-961.60	-361.08	-2.723e+06	-6.114e+06	-5.954e+06	-2.883e+06	-
3.932e+05	16	2	520	-398.61 -1164.72 -784.71	-778.62	-383.04	-3.391e+06	-6.537e+06	-6.487e+06	-3.441e+06	-
1.522e+05	16	2	521	-503.06 -1165.11 -1054.34	-613.83	-247.12	-3.824e+06	-6.789e+06	-6.782e+06	-3.832e+06	-
	16	2	522	-547.22 -1161.52 -1161.27	-547.47	-12.47	-3.983e+06	-6.879e+06	-6.879e+06	-3.983e+06	3.321e+04
	16	2	523	-519.43 -1163.65 -1071.90	-611.17	225.13	-3.855e+06	-6.812e+06	-6.796e+06	-3.871e+06	2.182e+05
	16	2	524	-427.19 -1164.98 -816.43	-775.74	368.34	-3.453e+06	-6.582e+06	-6.514e+06	-3.521e+06	4.566e+05
	16	2	525	-289.31 -1150.59 -477.45	-962.46	355.87	-2.813e+06	-6.182e+06	-5.993e+06	-3.002e+06	7.759e+05
	16	2	526	-123.68 -1109.20 -159.67	-1073.21	184.86	-1.983e+06	-5.609e+06	-5.189e+06	-2.404e+06	1.161e+06
	16	2	527	55.49-1035.6048.34 -1028.46	-87.99	-1.018e+06	-4.872e+06	-4.086e+06	-1.804e+06	1.553e+06	
	16	2	528	236.44-929.07105.64 -798.28	-367.88	3.032e+04	-3.992e+06	-2.712e+06	-1.249e+06	1.873e+06	
	16	2	529	409.03-792.0432.00 -415.02	-557.39	1.108e+06	-2.999e+06	-1.152e+06	-7.394e+05	2.043e+06	
	16	2	530	564.38-629.21-102.16 37.33	-592.71	2.165e+06	-1.934e+06	4.718e+05	-2.412e+05	2.018e+06	
	16	2	531	694.95-446.95-204.85 452.85	-466.73	3.154e+06	-8.430e+05	2.020e+06	2.915e+05	1.802e+06	
	16	2	532	794.67-252.94-199.43 741.16	-230.64	4.036e+06	2.247e+05	3.371e+06	8.893e+05	1.446e+06	
	16	2	533	859.26-55.90-55.13 858.48	26.58	4.778e+06	1.216e+06	4.448e+06	1.546e+06	1.032e+06	
	16	2	534	886.72134.51200.40 820.83	212.65	5.359e+06	2.078e+06	5.228e+06	2.209e+06	6.420e+05	
	16	2	535	878.63306.97491.30 694.30	267.20	5.771e+06	2.757e+06	5.734e+06	2.794e+06	3.324e+05	
	16	2	536	844.35444.59722.23 566.71	184.13	6.017e+06	3.202e+06	6.012e+06	3.207e+06	1.154e+05	
	16	2	537	815.30511.06814.74 511.62	13.02	6.108e+06	3.377e+06	6.108e+06	3.378e+06	-4.049e+04	
	16	2	538	832.58463.36737.18 558.76	-161.63	6.050e+06	3.265e+06	6.037e+06	3.278e+06	-1.929e+05	
	16	2	539	865.98332.92516.78 682.12	-253.38	5.837e+06	2.880e+06	5.783e+06	2.934e+06	-3.972e+05	
	16	2	540	877.63162.24229.71 810.17	-209.07	5.461e+06	2.256e+06	5.308e+06	2.409e+06	-6.835e+05	
	16	2	541	952.29225.65845.45 332.49	-257.33	7.778e+06	3.441e+06	7.723e+06	3.496e+06	-4.835e+05	
	16	2	542	950.54256.94950.14 257.34	16.71	7.882e+06	3.544e+06	7.882e+06	3.544e+06	-4.055e+04	
	16	2	543	959.47213.92826.38 347.01	285.50	7.721e+06	3.386e+06	7.684e+06	3.424e+06	4.021e+05	
	16	2	544	969.14108.72517.94 559.91	429.70	7.304e+06	2.972e+06	7.140e+06	3.135e+06	8.247e+05	
	16	2	545	964.30-38.58133.78 791.94	378.35	6.648e+06	2.317e+06	6.277e+06	2.687e+06	1.211e+06	
	16	2	546	934.60-210.45-193.52 917.67	138.23	5.783e+06	1.446e+06	5.133e+06	2.096e+06	1.548e+06	
	16	2	547	875.65-393.29-358.40 840.75	-207.51	4.749e+06	3.958e+05	3.755e+06	1.390e+06	1.827e+06	
	16	2	548	787.33-576.12-322.86 534.07	-530.26	3.589e+06	-7.901e+05	2.197e+06	6.024e+05	2.039e+06	
	16	2	549	672.63-749.87-131.11 53.87	-705.21	2.357e+06	-2.061e+06	5.211e+05	-2.250e+05	2.177e+06	
	16	2	550	536.79-907.09107.77 -478.06	-659.85	1.104e+06	-3.361e+06	-1.207e+06	-1.049e+06	2.231e+06	
	16	2	551	386.97-1042.07262.51 -917.60	-402.96	-1.136e+05	-4.634e+06	-2.919e+06	-1.829e+06	2.193e+06	
	16	2	552	231.89-1151.06231.51-1150.68	-22.86	-1.245e+06	-5.822e+06	-4.540e+06	-2.528e+06	2.056e+06	
	16	2	553	81.67-1232.64-16.00 -1134.97	344.71	-2.241e+06	-6.874e+06	-5.996e+06	-3.119e+06	1.816e+06	
	16	2	554	-52.38-1288.00-425.44 -914.94	567.26	-3.061e+06	-7.741e+06	-7.217e+06	-3.585e+06	1.476e+06	
	16	2	555	-158.21 -1320.96 -874.82	-604.35	565.43	-3.668e+06	-8.385e+06	-8.138e+06	-3.915e+06	1.051e+06
	16	2	556	-224.27 -1337.06 -1218.61	-342.73	343.20	-4.038e+06	-8.775e+06	-8.708e+06	-4.106e+06	5.615e+05
	16	2	557	-242.02 -1341.40 -1341.24	-242.18	-13.24	-4.155e+06	-8.895e+06	-8.894e+06	-4.155e+06	3.826e+04
	16	2	558	-209.02 -1335.62 -1199.87	-344.77	-366.75	-4.012e+06	-8.738e+06	-8.687e+06	-4.062e+06	-



4.843e+05

16	2	559	-130.00	-1316.92	-840.50	-606.42	-581.80	-3.616e+06	-8.311e+06	-8.099e+06	-3.827e+06	-
9.734e+05												
16	2	560	-14.93-1280.01-381.28	-913.67		-573.80	-2.981e+06	-7.633e+06	-7.164e+06	-3.450e+06	-1.401e+06	
16	2	561	124.12-1219.9730.95	-1126.81		-341.38	-2.133e+06	-6.736e+06	-5.933e+06	-2.936e+06	-1.747e+06	
16	2	562	275.03-1134.01274.24	-1133.22		33.39	-1.106e+06	-5.658e+06	-4.466e+06	-2.298e+06	-2.002e+06	
16	2	563	426.59-1021.98295.34	-890.72		415.81	5.972e+04	-4.448e+06	-2.831e+06	-1.557e+06	-2.162e+06	
16	2	564	568.81-886.05127.63	-444.87		668.74	1.313e+06	-3.157e+06	-1.095e+06	-7.488e+05	-2.229e+06	
16	2	565	693.52-730.14-123.02	86.40		704.09	2.597e+06	-1.839e+06	6.717e+05	8.679e+04	-2.199e+06	
16	2	566	795.15-558.82-319.49	555.82		516.50	3.843e+06	-5.475e+05	2.383e+06	9.120e+05	-2.068e+06	
16	2	567	872.07-377.31-348.87	843.63		186.34	4.985e+06	6.515e+05	3.941e+06	1.695e+06	-1.853e+06	
16	2	568	925.04-192.53-170.34	902.85		-155.91	5.982e+06	1.680e+06	5.282e+06	2.379e+06	-1.587e+06	
16	2	569	952.50-18.45167.07	766.97		-381.73	6.805e+06	2.496e+06	6.387e+06	2.913e+06	-1.275e+06	
16	2	570	958.02127.41549.75	535.68		-415.24	7.414e+06	3.087e+06	7.216e+06	3.285e+06	-9.028e+05	

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-1662.84	-1662.62	-1435.88	-908.04		-1.136e+07	-1.136e+07	-5.282e+06	-2.888e+06	
	1329.42		1316.17	1236.35	906.59	1.045e+07		1.045e+07	4.727e+06	2.892e+06

Macro	Tipo	Angolo 1-X (gradi)
17	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
17	1	541	1256.96	490.08	1118.55	628.49	-294.94	1.015e+07	4.858e+06	1.009e+07	4.915e+06	-
5.491e+05												
17	1	542	1245.48	542.45	1244.82	543.10	21.47	1.028e+07	5.000e+06	1.028e+07	5.001e+06	-
5.498e+04												
17	1	543	1270.21	469.72	1094.39	645.54	331.41	1.008e+07	4.780e+06	1.005e+07	4.816e+06	4.398e+05
17	1	544	1303.68	302.13	719.33	886.48	493.75	9.571e+06	4.203e+06	9.401e+06	4.372e+06	9.383e+05
17	1	545	1312.79	79.49	248.86	1143.42	424.50	8.761e+06	3.297e+06	8.353e+06	3.705e+06	1.437e+06
17	1	546	1280.80	-171.53	-159.58	1268.85	131.20	7.683e+06	2.104e+06	6.919e+06	2.868e+06	1.917e+06
17	1	547	1201.88	-432.38	-379.75	1149.25	-288.50	6.375e+06	6.831e+05	5.138e+06	1.920e+06	2.348e+06
17	1	548	1076.63	-688.33	-364.47	752.77	-683.16	4.890e+06	-9.000e+05	3.074e+06	9.152e+05	2.686e+06
17	1	549	909.41-926.89-162.89	145.42		-905.11	3.285e+06	-2.572e+06	8.197e+05	-1.063e+05	2.892e+06	
17	1	550	707.57-1137.5199.40	-529.34		-867.33	1.631e+06	-4.258e+06	-1.511e+06	-1.117e+06	2.938e+06	
17	1	551	480.89-1311.92269.97	-1101.00		-577.62	-2273.35	-5.885e+06	-3.792e+06	-2.096e+06	2.817e+06	
17	1	552	241.27-1444.43230.07	-1433.23		-136.96	-1.540e+06	-7.384e+06	-5.902e+06	-3.023e+06	2.543e+06	
17	1	553	2.75-1532.82-57.31	-1472.75		297.71	-2.912e+06	-8.693e+06	-7.738e+06	-3.867e+06	2.147e+06	
17	1	554	-218.09	-1579.38	-530.25	-1267.22	572.27	-4.053e+06	-9.760e+06	-9.222e+06	-4.592e+06	1.668e+06
17	1	555	-401.17	-1592.59	-1048.52	-945.24	593.47	-4.907e+06	-1.054e+07	-1.030e+07	-5.149e+06	1.144e+06
17	1	556	-522.29	-1588.11	-1444.28	-666.12	364.16	-5.430e+06	-1.102e+07	-1.095e+07	-5.495e+06	5.992e+05
17	1	557	-557.85	-1584.68	-1584.37	-558.16	-17.83	-5.595e+06	-1.116e+07	-1.116e+07	-5.596e+06	4.897e+04
17	1	558	-499.06	-1589.86	-1419.55	-669.37	-395.94	-5.394e+06	-1.097e+07	-1.093e+07	-5.439e+06	-
5.001e+05												



17 1.044e+06	1	559	-359.97	-1592.22	-1003.32	-948.87	-615.53	-4.834e+06	-1.045e+07	-1.025e+07	-5.035e+06	-
17 1.570e+06	1	560	-165.56	-1573.27	-472.39	-1266.44	-581.20	-3.943e+06	-9.627e+06	-9.153e+06	-4.417e+06	-
17	1	561	60.58-1519.31	3.93	-1462.67	-293.75	-2.763e+06	-8.522e+06	-7.656e+06	-3.629e+06	-2.058e+06	-
17	1	562	298.96-1423.82	285.82-1410.68		149.85	-1.349e+06	-7.180e+06	-5.808e+06	-2.722e+06	-2.474e+06	-
17	1	563	533.29-1285.80	313.68-1066.19		592.68	2.343e+05	-5.653e+06	-3.677e+06	-1.742e+06	-2.780e+06	-
17	1	564	749.65-1108.10	128.62-487.08		876.38	1.915e+06	-4.001e+06	-1.359e+06	-7.276e+05	-2.941e+06	-
17	1	565	936.66-895.84	-144.02	184.84	901.38	3.609e+06	-2.288e+06	1.029e+06	2.923e+05	-2.925e+06	-
17 2.720e+06	1	566	1086.53	-656.21	-344.82	775.13	667.62	5.224e+06	-5.820e+05	3.335e+06	1.307e+06	-
17 2.363e+06	1	567	1200.75	-400.49	-352.78	1153.04	272.27	6.672e+06	1.027e+06	5.393e+06	2.306e+06	-
17 1.954e+06	1	568	1271.15	-141.48	-126.64	1256.32	-144.01	7.929e+06	2.428e+06	7.114e+06	3.243e+06	-
17 1.513e+06	1	569	1297.09	111.87	291.36	1117.60	-424.87	8.954e+06	3.548e+06	8.491e+06	4.011e+06	-
17 1.040e+06	1	570	1285.86	332.78	759.62	859.02	-473.94	9.706e+06	4.365e+06	9.495e+06	4.576e+06	-
17 2.732e+06	1	571	1736.60	-359.08	910.26	467.26	-1024.16	1.445e+07	4.460e+06	1.364e+07	5.273e+06	-
17 3.493e+06	1	572	1709.80	-529.39	107.29	1073.12	-1010.09	1.308e+07	3.744e+06	1.150e+07	5.316e+06	-
17 3.751e+06	1	573	1667.90	-751.48	-606.02	1522.44	-575.12	1.123e+07	2.749e+06	8.973e+06	5.009e+06	-
17 3.644e+06	1	574	1610.75	-1002.58	-992.43	1600.60	162.49	9.038e+06	1.429e+06	6.325e+06	4.142e+06	-
17 3.396e+06	1	575	1542.00	-1229.37	-867.31	1179.94	933.98	6.592e+06	-2.783e+05	3.672e+06	2.641e+06	-
17 3.222e+06	1	576	1428.44	-1429.10	-317.75	317.10	1393.06	4.137e+06	-2.319e+06	1.108e+06	7.107e+05	-
17 3.267e+06	1	577	1282.02	-1611.14	360.37	-689.49	1347.98	1.882e+06	-4.651e+06	-1.397e+06	-1.372e+06	-
17 3.537e+06	1	578	1112.67	-1773.76	854.30	-1515.39	824.02	-6.536e+04	-7.175e+06	-3.976e+06	-3.265e+06	-
17	1	579	932.12-1911.56	932.00-1911.44		18.27	-1.703e+06	-9.705e+06	-6.717e+06	-4.691e+06	-3.871e+06	-
17	1	580	753.04-2020.90	518.47-1786.33		-771.79	-3.051e+06	-1.205e+07	-9.574e+06	-5.524e+06	-4.017e+06	-
17	1	581	589.17-2101.11	-274.99-1236.95		-1256.20	-4.118e+06	-1.404e+07	-1.234e+07	-5.817e+06	-3.738e+06	-
17	1	582	454.48-2154.17	-1189.36-510.33		-1259.36	-4.897e+06	-1.556e+07	-1.470e+07	-5.760e+06	-2.908e+06	-
17	1	583	361.87-2183.82	-1912.34	90.39	-785.75	-5.377e+06	-1.652e+07	-1.630e+07	-5.603e+06	-1.569e+06	-
17	1	584	321.13-2193.63	-2193.50	321.00	-18.19	-5.549e+06	-1.687e+07	-1.687e+07	-5.550e+06	7.240e+04	-
17	1	585	336.79-2185.59	-1937.21	88.41	751.54	-5.409e+06	-1.660e+07	-1.633e+07	-5.678e+06	1.714e+06	-
17	1	586	407.09-2158.71	-1237.63-513.99		1230.82	-4.960e+06	-1.571e+07	-1.476e+07	-5.909e+06	3.050e+06	-
17	1	587	524.37-2109.22	-342.77-1242.08		1237.64	-4.212e+06	-1.426e+07	-1.243e+07	-6.039e+06	3.876e+06	-
17	1	588	676.89-2032.63	438.34-1794.08		767.76	-3.176e+06	-1.233e+07	-9.685e+06	-5.821e+06	4.149e+06	-
17	1	589	851.00-1925.24	851.00-1925.23		-4.60	-1.864e+06	-1.005e+07	-6.844e+06	-5.066e+06	3.993e+06	-
17	1	590	1032.91	-1785.51	788.39	-1540.98	-793.33	-2.761e+05	-7.560e+06	-4.112e+06	-3.724e+06	3.637e+06
17	1	591	1209.85	-1614.75	328.48	-733.37	-1308.71	1.597e+06	-5.061e+06	-1.549e+06	-1.915e+06	3.324e+06
17	1	592	1370.95	-1417.30	-299.46	253.10	-1366.47	3.748e+06	-2.732e+06	9.161e+05	1.002e+05	3.214e+06
17	1	593	1507.72	-1200.45	-805.42	1112.69	-955.91	6.104e+06	-6.941e+05	3.406e+06	2.004e+06	3.326e+06
17	1	594	1614.67	-974.31	-951.57	1591.92	-241.62	8.504e+06	1.021e+06	6.004e+06	3.521e+06	3.530e+06
17	1	595	1689.57	-751.57	-643.95	1581.95	501.15	1.076e+07	2.424e+06	8.678e+06	4.506e+06	3.608e+06





17 2.463e+06	2	576	1067.19	-1131.47	-231.67	167.39	1081.07	3.011e+06	-1.935e+06	7.625e+05	3.133e+05	-
17	2	577	962.54-1279.48	289.96	-606.91	1027.41	1.302e+06	-3.756e+06	-1.165e+06	-1.289e+06	-2.528e+06	
17	2	578	839.83-1412.13	662.19	-1234.49	607.03	-1.741e+05	-5.718e+06	-3.160e+06	-2.732e+06	-2.764e+06	
17	2	579	708.14-1525.33	707.85	-1525.04	-25.48	-1.419e+06	-7.680e+06	-5.292e+06	-3.806e+06	-3.041e+06	
17	2	580	577.15-1616.20	371.70	-1410.75	-639.08	-2.447e+06	-9.491e+06	-7.519e+06	-4.419e+06	-3.163e+06	
17	2	581	457.19-1684.00	-257.53	-969.28	-1009.72	-3.262e+06	-1.103e+07	-9.678e+06	-4.613e+06	-2.945e+06	
17	2	582	358.61-1729.84	-977.33	-393.90	-1002.65	-3.858e+06	-1.220e+07	-1.152e+07	-4.543e+06	-2.291e+06	
17	2	583	290.80-1756.07	-1544.62	79.34	-622.98	-4.225e+06	-1.294e+07	-1.276e+07	-4.404e+06	-1.237e+06	
17	2	584	260.77-1764.93	-1764.84	260.68	-13.99	-4.357e+06	-1.321e+07	-1.321e+07	-4.357e+06	5.569e+04	
17	2	585	271.78-1757.71	-1563.74	77.81	596.68	-4.249e+06	-1.300e+07	-1.279e+07	-4.462e+06	1.348e+06	
17	2	586	322.61-1733.78	-1014.45	-396.73	980.71	-3.905e+06	-1.232e+07	-1.156e+07	-4.658e+06	2.401e+06	
17	2	587	407.84-1690.73	-309.65	-973.24	995.44	-3.333e+06	-1.120e+07	-9.746e+06	-4.785e+06	3.051e+06	
17	2	588	519.02-1625.67	310.08	-1416.73	635.98	-2.542e+06	-9.710e+06	-7.604e+06	-4.647e+06	3.265e+06	
17	2	589	646.15-1536.26	645.55	-1535.66	35.98	-1.541e+06	-7.943e+06	-5.389e+06	-4.095e+06	3.135e+06	
17	2	590	778.92-1421.62	611.50	-1254.19	-583.43	-3.334e+05	-6.018e+06	-3.266e+06	-3.086e+06	2.841e+06	
17	2	591	907.69-1282.92	265.44	-640.67	-997.21	1.087e+06	-4.075e+06	-1.281e+06	-1.706e+06	2.572e+06	
17	2	592	1024.12	-1123.55	-217.59	118.16	-1060.63	2.717e+06	-2.258e+06	6.149e+05	-1.563e+05	2.457e+06
17	2	593	1121.67	-949.09	-614.52	787.11	-762.15	4.505e+06	-6.664e+05	2.518e+06	1.320e+06	2.515e+06
17	2	594	1196.07	-767.27	-741.04	1169.85	-225.40	6.333e+06	6.707e+05	4.493e+06	2.510e+06	2.652e+06
17	2	595	1245.65	-587.89	-522.47	1180.23	340.10	8.056e+06	1.762e+06	6.521e+06	3.297e+06	2.702e+06
17	2	596	1272.19	-423.04	-22.32	871.48	720.23	9.540e+06	2.619e+06	8.473e+06	3.687e+06	2.500e+06
17	2	597	1280.49	-286.72	583.53	410.23	778.80	1.069e+07	3.241e+06	1.014e+07	3.792e+06	1.948e+06
17	2	598	1278.41	-193.73	1075.29	9.40	507.71	1.142e+07	3.627e+06	1.127e+07	3.774e+06	1.060e+06
17 3.516e+04	2	599	1273.60	-156.81	1273.05	-156.27	27.96	1.170e+07	3.770e+06	1.170e+07	3.770e+06	-
17 1.139e+06	2	600	1269.99	-182.65	1106.11	-18.77	-459.56	1.152e+07	3.673e+06	1.135e+07	3.841e+06	-

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	-2193.63	-2193.50	-1925.23	-1366.47		-1.687e+07	-1.687e+07	-6.039e+06	-4.017e+06	
	1759.48		1755.76	1600.60	1393.06	1.552e+07		1.552e+07	5.316e+06	4.149e+06

Macro	Tipo	Angolo 1-X (gradi)
18	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
			N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
18	1	1	45.80-2008.82	-673.79	-1289.23	980.14	-1.051e+06	-1.096e+07	-7.650e+06	-4.364e+06	-4.676e+06	
18 4.250e+06	1	2	-430.95	-2527.14	-981.77	-1976.32	922.62	-4.486e+06	-1.443e+07	-1.204e+07	-6.876e+06	-
18 3.638e+06	1	3	-846.18	-2992.05	-1232.19	-2606.05	824.21	-7.512e+06	-1.751e+07	-1.593e+07	-9.084e+06	-
18 2.858e+06	1	4	-1185.89	-3381.22	-1419.53	-3147.58	677.01	-1.001e+07	-2.005e+07	-1.915e+07	-1.090e+07	-
18 1.940e+06	1	5	-1438.97	-3675.48	-1547.31	-3567.14	480.17	-1.188e+07	-2.195e+07	-2.156e+07	-1.227e+07	-



18 9.274e+05	1	6	-1597.19	-3860.12	-1623.52	-3833.79	242.70	-1.304e+07	-2.314e+07	-2.305e+07	-1.312e+07	-
18	1	7	-1655.34	-3925.99	-1655.46	-3925.86	-17.11	-1.344e+07	-2.356e+07	-2.356e+07	-1.344e+07	1.333e+05
18	1	8	-1611.50	-3869.83	-1645.67	-3835.66	-275.68	-1.307e+07	-2.320e+07	-2.305e+07	-1.321e+07	1.190e+06
18	1	9	-1467.18	-3694.67	-1590.53	-3571.33	-509.45	-1.194e+07	-2.207e+07	-2.157e+07	-1.244e+07	2.192e+06
18	1	10	-1227.22	-3409.78	-1482.04	-3154.96	-700.88	-1.011e+07	-2.023e+07	-1.918e+07	-1.117e+07	3.093e+06
18	1	11	-899.76	-3030.03	-1312.20	-2617.59	-841.72	-7.654e+06	-1.777e+07	-1.598e+07	-9.437e+06	3.853e+06
18	1	12	-496.06	-2575.08	-1078.14	-1993.01	-933.45	-4.677e+06	-1.478e+07	-1.213e+07	-7.325e+06	4.442e+06
18	1	13	-30.50	-2068.14	-786.25	-1312.39	-984.27	-1.309e+06	-1.141e+07	-7.793e+06	-4.921e+06	4.840e+06
18	1	14	479.42	-1534.23	-453.38	-601.43	-1004.10	2.305e+06	-7.795e+06	-3.155e+06	-2.334e+06	5.033e+06
18	1	15	1013.11	-998.34	-104.46	119.22	-999.49	6.009e+06	-4.103e+06	1.585e+06	3.205e+05	5.016e+06
18	1	16	1547.24	-483.88	232.49	830.88	-970.49	9.640e+06	-4.920e+05	6.227e+06	2.921e+06	4.789e+06
18	1	17	2056.83	-11.60	532.54	1512.68	-910.73	1.304e+07	2.883e+06	1.057e+07	5.352e+06	4.358e+06
18	1	18	2516.97	400.79	779.02	2138.75	-810.77	1.607e+07	5.877e+06	1.444e+07	7.508e+06	3.736e+06
18	1	19	3199.54	990.21	1093.40	3096.34	-466.20	2.048e+07	1.023e+07	2.006e+07	1.065e+07	2.025e+06
18	1	20	3388.11	1147.42	1171.17	3364.36	-229.45	2.168e+07	1.141e+07	2.158e+07	1.151e+07	1.006e+06
18 6.192e+04	1	21	3461.45	1205.25	1205.64	3461.05	29.77	2.214e+07	1.186e+07	2.214e+07	1.186e+07	-
18 1.130e+06	1	22	3417.02	1162.67	1200.15	3379.54	288.24	2.184e+07	1.155e+07	2.172e+07	1.168e+07	-
18 2.147e+06	1	23	3257.82	1022.40	1151.89	3128.33	522.21	2.080e+07	1.053e+07	2.033e+07	1.100e+07	-
18 3.057e+06	1	24	2990.49	790.55	1052.86	2728.17	712.92	1.908e+07	8.871e+06	1.806e+07	9.888e+06	-
18 3.772e+06	1	25	2620.89	475.59	893.66	2202.82	849.77	1.677e+07	6.728e+06	1.506e+07	8.435e+06	-
18 4.191e+06	1	26	2162.73	80.61	667.01	1576.33	936.53	1.412e+07	4.309e+06	1.177e+07	6.664e+06	-
18 4.765e+06	1	27	1650.75	-384.64	379.18	886.94	985.52	1.039e+07	4.040e+05	6.885e+06	3.907e+06	-
18 4.946e+06	1	28	1109.82	-909.55	38.13	162.14	1007.78	6.510e+06	-3.416e+06	1.952e+06	1.143e+06	-
18	1	29	566.56	-1461.09	-324.81	-569.72	1006.40	2.658e+06	-7.241e+06	-2.930e+06	-1.653e+06	-4.908e+06
18	1	30	-211.63	-230.82	-225.99	-216.46	-8.33	-4.666e+05	-9.020e+05	-5.745e+05	-7.941e+05	1.880e+05
18	1	571	4365.94	1654.35	1785.01	4235.27	580.73	1.396e+07	9.764e+06	1.388e+07	9.844e+06	5.730e+05
18	1	572	4043.15	1303.82	1587.33	3759.64	834.41	1.345e+07	7.749e+06	1.345e+07	7.751e+06	1.107e+05
18 8.966e+05	1	573	3624.42	830.84	1324.44	3130.82	1065.49	1.244e+07	5.384e+06	1.232e+07	5.500e+06	-
18 2.336e+06	1	574	3090.00	234.65	986.65	2337.99	1257.67	1.079e+07	2.464e+06	1.007e+07	3.182e+06	-
18 3.881e+06	1	575	2418.14	-476.66	556.84	1384.64	1386.96	8.743e+06	-5.384e+05	6.646e+06	1.558e+06	-
18 4.767e+06	1	576	1668.79	-1239.84	91.09	337.85	1449.07	6.036e+06	-3.646e+06	2.039e+06	3.512e+05	-
18	1	577	904.10	-1991.08	-360.56	-726.43	1435.98	3.100e+06	-6.565e+06	-2.780e+06	-6.854e+05	-4.718e+06
18	1	578	160.12	-2711.57	-795.87	-1755.58	1353.28	7.067e+04	-9.190e+06	-7.189e+06	-1.930e+06	-3.811e+06
18 2.356e+06	1	579	-534.67	-3377.54	-1207.82	-2704.38	1208.53	-2.941e+06	-1.142e+07	-1.071e+07	-3.656e+06	-
18 8.140e+05	1	580	-1152.09	-3963.87	-1583.49	-3532.47	1013.36	-5.817e+06	-1.317e+07	-1.308e+07	-5.908e+06	-
18	1	581	-1665.87	-4447.53	-1906.07	-4207.33	781.32	-8.436e+06	-1.438e+07	-1.436e+07	-8.457e+06	3.554e+05
18	1	582	-2053.23	-4809.13	-2157.33	-4705.03	525.40	-1.068e+07	-1.500e+07	-1.482e+07	-1.086e+07	8.628e+05



18	1	583	-2296.67	-5034.21	-2320.91	-5009.97	256.45	-1.239e+07	-1.507e+07	-1.487e+07	-1.259e+07	6.903e+05	
18	1	584	-2385.26	-5113.87	-2385.37	-5113.76	-17.75	-1.324e+07	-1.486e+07	-1.485e+07	-1.324e+07	9.200e+04	
5.089e+05	18	1	585	-2315.03	-5044.93	-2346.23	-5013.73	-290.17	-1.255e+07	-1.499e+07	-1.488e+07	-1.266e+07	-
6.912e+05	18	1	586	-2089.59	-4830.09	-2207.06	-4712.62	-555.11	-1.089e+07	-1.496e+07	-1.484e+07	-1.101e+07	-
2.010e+05	18	1	587	-1719.96	-4477.84	-1978.67	-4219.14	-804.08	-8.682e+06	-1.439e+07	-1.439e+07	-8.689e+06	-
	18	1	588	-1223.74	-4002.23	-1676.84	-3549.13	-1026.47	-6.091e+06	-1.326e+07	-1.313e+07	-6.218e+06	9.427e+05
	18	1	589	-624.23	-3422.53	-1319.53	-2727.22	-1209.22	-3.247e+06	-1.159e+07	-1.079e+07	-4.042e+06	2.449e+06
	18	1	590	50.93	-2762.64	-924.20	-1787.51	-1338.92	-2.790e+05	-9.452e+06	-7.342e+06	-2.388e+06	3.860e+06
	18	1	591	771.10	-2050.27	-506.38	-772.79	-1404.39	2.681e+06	-6.938e+06	-3.049e+06	-1.207e+06	4.720e+06
	18	1	592	1504.20	-1315.89	-79.68	267.99	-1399.29	5.503e+06	-4.156e+06	1.567e+06	-2.195e+05	4.746e+06
	18	1	593	2218.18	-591.39	343.20	1283.59	-1323.76	8.066e+06	-1.227e+06	5.896e+06	9.418e+05	3.931e+06
	18	1	594	2882.43	91.21	748.67	2224.97	-1184.43	1.026e+07	1.718e+06	9.416e+06	2.561e+06	2.546e+06
	18	1	595	3468.80	701.20	1120.86	3049.14	-992.63	1.199e+07	4.551e+06	1.184e+07	4.699e+06	1.039e+06
1.359e+05	18	1	596	3953.06	1210.41	1442.05	3721.42	-762.66	1.319e+07	7.139e+06	1.319e+07	7.142e+06	-
6.895e+05	18	1	597	4316.38	1595.53	1693.58	4218.33	-507.11	1.384e+07	9.352e+06	1.373e+07	9.461e+06	-
5.908e+05	18	1	598	4544.16	1839.89	1860.94	4523.12	-237.61	1.397e+07	1.103e+07	1.385e+07	1.116e+07	-
8.096e+04	18	1	599	4628.02	1931.64	1932.18	4627.48	38.01	1.387e+07	1.183e+07	1.387e+07	1.183e+07	-
	18	1	600	4566.41	1868.08	1904.82	4529.66	312.72	1.399e+07	1.126e+07	1.392e+07	1.134e+07	4.378e+05
	18	1	601	2903.25	737.74	964.49	2676.50	-663.03	1.858e+07	8.357e+06	1.764e+07	9.294e+06	2.949e+06
	18	2	1	-44.27	-1624.82	-597.94	-1071.16	754.02	-1.058e+06	-8.682e+06	-6.135e+06	-3.605e+06	-3.596e+06
3.268e+06	18	2	2	-410.98	-2023.56	-834.81	-1599.73	709.81	-3.700e+06	-1.135e+07	-9.514e+06	-5.537e+06	-
2.797e+06	18	2	3	-730.37	-2381.20	-1027.39	-2084.18	634.12	-6.029e+06	-1.371e+07	-1.251e+07	-7.236e+06	-
2.197e+06	18	2	4	-991.66	-2680.58	-1171.45	-2500.79	520.89	-7.950e+06	-1.567e+07	-1.498e+07	-8.637e+06	-
1.492e+06	18	2	5	-1186.33	-2906.94	-1269.70	-2823.58	369.45	-9.386e+06	-1.713e+07	-1.683e+07	-9.685e+06	-
7.128e+05	18	2	6	-1308.03	-3048.98	-1328.30	-3028.72	186.74	-1.028e+07	-1.805e+07	-1.798e+07	-1.034e+07	-
	18	2	7	-1352.76	-3099.65	-1352.86	-3099.55	-13.16	-1.059e+07	-1.837e+07	-1.837e+07	-1.059e+07	1.025e+05
	18	2	8	-1319.04	-3056.45	-1345.34	-3030.16	-212.11	-1.030e+07	-1.809e+07	-1.798e+07	-1.041e+07	9.149e+05
	18	2	9	-1208.03	-2921.71	-1302.95	-2826.79	-391.97	-9.437e+06	-1.722e+07	-1.684e+07	-9.820e+06	1.685e+06
	18	2	10	-1023.46	-2702.55	-1219.54	-2506.47	-539.25	-8.028e+06	-1.581e+07	-1.500e+07	-8.839e+06	2.378e+06
	18	2	11	-771.58	-2410.42	-1088.94	-2093.06	-647.60	-6.138e+06	-1.391e+07	-1.254e+07	-7.508e+06	2.962e+06
	18	2	12	-461.06	-2060.44	-908.94	-1612.57	-718.14	-3.847e+06	-1.162e+07	-9.581e+06	-5.882e+06	3.416e+06
	18	2	13	-102.97	-1670.46	-684.45	-1088.98	-757.20	-1.256e+06	-9.022e+06	-6.245e+06	-4.033e+06	3.722e+06
	18	2	14	289.26	-1259.73	-428.41	-542.06	-772.41	1.525e+06	-6.244e+06	-2.677e+06	-2.042e+06	3.871e+06
	18	2	15	699.76	-847.49	-160.01	12.28	-768.81	4.373e+06	-3.405e+06	9.691e+05	-693.69	3.859e+06
	18	2	16	1110.61	-451.72	99.20	559.69	-746.46	7.167e+06	-6.276e+05	4.540e+06	2.000e+06	3.685e+06
	18	2	17	1502.57	-88.41	330.05	1084.12	-700.46	9.785e+06	1.968e+06	7.884e+06	3.869e+06	3.353e+06
	18	2	18	1856.51	228.84	519.69	1565.66	-623.55	1.211e+07	4.271e+06	1.086e+07	5.527e+06	2.875e+06
	18	2	19	2381.54	682.26	761.62	2302.18	-358.53	1.551e+07	7.620e+06	1.519e+07	7.941e+06	1.559e+06
	18	2	20	2526.58	803.20	821.46	2508.32	-176.45	1.643e+07	8.528e+06	1.636e+07	8.605e+06	7.741e+05





18 4.762e+04	2	21	2582.99	847.69	847.99	2582.69	22.90	1.679e+07	8.870e+06	1.678e+07	8.870e+06	-
18 8.696e+05	2	22	2548.82	814.94	843.76	2520.00	221.68	1.655e+07	8.637e+06	1.646e+07	8.734e+06	-
18 1.653e+06	2	23	2426.36	707.03	806.60	2326.79	401.61	1.575e+07	7.852e+06	1.539e+07	8.214e+06	-
18 2.353e+06	2	24	2220.73	528.68	730.39	2019.02	548.29	1.443e+07	6.574e+06	1.364e+07	7.357e+06	-
18 2.903e+06	2	25	1936.44	286.38	607.88	1614.95	653.55	1.265e+07	4.925e+06	1.134e+07	6.240e+06	-
18 3.225e+06	2	26	1584.03	-17.47	433.48	1133.08	720.31	1.061e+07	3.065e+06	8.801e+06	4.878e+06	-
18 3.666e+06	2	27	1190.22	-375.37	212.04	602.81	758.02	7.743e+06	6.146e+04	5.046e+06	2.758e+06	-
18	2	28	774.15-779.18-50.32	45.30	775.19	4.759e+06-2.876e+06	1.251e+06	6.316e+05	-3.805e+06			
18	2	29	356.29-1203.47-329.51-517.67		774.18	1.796e+06-5.819e+06-2.504e+06-1.519e+06-3.775e+06						
18	2	30	-242.26	-257.02	-253.31	-245.97	-6.40	-6.107e+05	-9.456e+05	-6.937e+05	-8.626e+05	1.446e+05
18	2	571	3279.44	1192.54	1293.20	3178.78	447.14	1.055e+07	7.301e+06	1.050e+07	7.357e+06	4.206e+05
18	2	572	3031.08	922.96	1141.34	2812.70	642.40	1.016e+07	5.756e+06	1.016e+07	5.757e+06	5.939e+04
18 7.166e+05	2	573	2708.90	559.21	939.35	2328.76	820.17	9.373e+06	3.940e+06	9.276e+06	4.036e+06	-
18 1.820e+06	2	574	2297.72	100.69	679.74	1718.66	967.93	8.102e+06	1.696e+06	7.535e+06	2.264e+06	-
18 3.001e+06	2	575	1780.79	-446.35	349.29	985.14	1067.22	6.529e+06	-6.131e+05	4.893e+06	1.023e+06	-
18 3.673e+06	2	576	1204.25	-1033.30	-8.87	179.82	1114.79	4.447e+06	-3.003e+06	1.344e+06	9.909e+04	-
18	2	577	615.91-1611.06-356.30-638.85		1104.48	2.188e+06-5.248e+06-2.362e+06-6.983e+05-3.624e+06						
18	2	578	43.50-2165.17-691.25-1430.42		1040.65	-1.437e+05-7.266e+06-5.750e+06-1.660e+06-2.916e+06						
18 1.789e+06	2	579	-491.06	-2677.34	-1008.32	-2160.09	929.15	-2.462e+06	-8.982e+06	-8.447e+06	-2.996e+06	-
18 5.992e+05	2	580	-966.09	-3128.27	-1297.51	-2796.85	778.94	-4.675e+06	-1.033e+07	-1.026e+07	-4.739e+06	-
18	2	581	-1361.39	-3500.23	-1545.89	-3315.74	600.47	-6.692e+06	-1.125e+07	-1.123e+07	-6.711e+06	2.991e+05
18	2	582	-1659.43	-3778.32	-1739.37	-3698.38	403.73	-8.418e+06	-1.173e+07	-1.158e+07	-8.566e+06	6.838e+05
18	2	583	-1846.73	-3951.42	-1865.34	-3932.81	197.03	-9.747e+06	-1.177e+07	-1.161e+07	-9.904e+06	5.420e+05
18	2	584	-1914.89	-4012.68	-1914.98	-4012.60	-13.66	-1.041e+07	-1.160e+07	-1.159e+07	-1.041e+07	7.076e+04
18 4.025e+05	2	585	-1860.86	-3959.67	-1884.82	-3935.71	-222.97	-9.871e+06	-1.171e+07	-1.162e+07	-9.964e+06	-
18 5.518e+05	2	586	-1687.40	-3794.44	-1777.63	-3704.21	-426.58	-8.584e+06	-1.169e+07	-1.159e+07	-8.685e+06	-
18 1.803e+05	2	587	-1403.01	-3523.54	-1601.73	-3324.82	-617.98	-6.882e+06	-1.126e+07	-1.126e+07	-6.890e+06	-
18	2	588	-1021.23	-3157.77	-1369.33	-2809.67	-789.02	-4.888e+06	-1.039e+07	-1.030e+07	-4.978e+06	6.983e+05
18	2	589	-559.97	-2711.94	-1094.25	-2177.65	-929.68	-2.698e+06	-9.110e+06	-8.515e+06	-3.293e+06	1.860e+06
18	2	590	-40.51-2204.44-789.97-1454.98		-1029.61	-4.136e+05-7.467e+06-5.867e+06-2.013e+06	2.953e+06					
18	2	591	513.58-1656.58-468.47-674.52		-1080.18	1.864e+06-5.534e+06-2.570e+06-1.100e+06	3.625e+06					
18	2	592	1077.62	-1091.78	-140.24	126.08	-1076.49	4.037e+06	-3.395e+06	9.816e+05	-3.399e+05	3.657e+06
18	2	593	1626.95	-534.58	184.95	907.41	-1018.61	6.009e+06	-1.144e+06	4.316e+06	5.488e+05	3.040e+06
18	2	594	2138.01	-9.61	496.68	1631.72	-911.59	7.697e+06	1.121e+06	7.032e+06	1.786e+06	1.982e+06
18	2	595	2589.16	459.51	782.75	2265.93	-764.13	9.029e+06	3.298e+06	8.908e+06	3.420e+06	8.260e+05
18 7.882e+04	2	596	2961.76	851.13	1029.59	2783.30	-587.21	9.958e+06	5.287e+06	9.957e+06	5.288e+06	-



18 5.102e+05	2	597	3241.30	1147.31	1222.87	3165.74	-390.51	1.046e+07	6.985e+06	1.038e+07	7.062e+06	-
18 4.435e+05	2	598	3416.55	1335.24	1351.46	3400.34	-183.01	1.057e+07	8.270e+06	1.048e+07	8.359e+06	-
18 6.229e+04	2	599	3481.08	1405.80	1406.21	3480.66	29.23	1.050e+07	8.872e+06	1.050e+07	8.874e+06	-
18	2	600	3433.68	1356.92	1385.22	3405.37	240.79	1.058e+07	8.448e+06	1.053e+07	8.499e+06	3.258e+05
18	2	601	2153.63	488.05	662.41	1979.27	-509.91	1.404e+07	6.178e+06	1.332e+07	6.900e+06	2.270e+06

<b>M_G</b>	<b>N max</b>	<b>N min</b>	<b>N 1</b>	<b>N 2</b>	<b>N 1-2</b>	<b>M max</b>	<b>M min</b>	<b>M 1</b>	<b>M 2</b>	<b>M 1-2</b>
	-5113.87	-2385.37	-5113.76	-1404.39		-2.356e+07	-2.356e+07	-1.344e+07	-4.946e+06	
	4628.02		1932.18	4627.48	1449.07	2.214e+07		2.214e+07	1.186e+07	5.033e+06

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			N/mm2	N/mm	N/mm	N/mm	N/mm	N	N	N	N	N	N
1 1	96	9.59	105.94-17.64	96.35	-8.04	33.07	8.299e+04	-1.611e+05	-5.139e+04	-2.669e+04	-1.214e+05		
	97	9.24	169.80-5.31	168.37	-3.88	-15.73	7.125e+04	-1.599e+05	-1.054e+05	1.669e+04	-9.817e+04		
	36	4.99	140.75-4.83	137.04	-1.12	-22.96	965.80	-9.209e+04	-9.188e+04	758.09	-4391.59		
	37	3.62	128.14-2.63	124.82	0.69	20.55	3125.05	-5.951e+04	-5.622e+04	-160.23	-1.396e+04		
1 2	96	7.53	93.92-14.25	86.38	-6.70	27.55	6.220e+04	-1.272e+05	-4.425e+04	-2.070e+04	-9.394e+04		
	97	7.26	143.16-4.88	141.79	-3.50	-14.20	5.312e+04	-1.262e+05	-8.578e+04	1.267e+04	-7.496e+04		
	36	4.12	120.33-4.02	117.18	-0.87	-19.56	737.43	-7.525e+04	-7.514e+04	624.82	-2923.12		
	37	3.07	110.63-2.32	107.78	0.52	17.70	2419.14	-5.021e+04	-4.771e+04	-81.58	-1.120e+04		
2 1	95	9.33	54.83-15.73	45.03	-5.92	24.41	1.023e+05	-1.449e+05	-1.661e+04	-2.596e+04	-1.235e+05		
	96	9.14	122.02-1.78	121.73	-1.49	-5.95	9.336e+04	-1.473e+05	-7.424e+04	2.031e+04	-1.106e+05		
	37	3.35	90.83 -3.46	88.44	-1.07	-14.82	1446.04	-6.267e+04	-6.193e+04	707.04	-6843.46		
	38	1.95	77.49 -1.13	75.54	0.83	12.25	5285.33	-2.941e+04	-2.385e+04	-271.70	-1.272e+04		
2 2	95	7.27	54.26-12.42	46.90	-5.07	20.89	7.676e+04	-1.144e+05	-1.749e+04	-2.013e+04	-9.556e+04		
	96	7.12	106.32-2.08	105.91	-1.67	-6.69	6.979e+04	-1.162e+05	-6.182e+04	1.546e+04	-8.456e+04		
	37	2.86	81.93 -2.97	79.80	-0.83	-13.29	1020.98	-5.253e+04	-5.210e+04	585.56	-4809.15		
	38	1.77	71.67 -1.17	69.87	0.63	11.32	3779.28	-2.675e+04	-2.281e+04	-167.32	-1.024e+04		
3 1	94	9.03	9.91 -20.24	-6.74	-3.59	14.99	1.192e+05	-1.250e+05	1.830e+04	-2.411e+04	-1.202e+05		
	95	9.05	71.65 0.67	71.45	0.88	3.83	1.137e+05	-1.310e+05	-4.038e+04	2.299e+04	-1.182e+05		
	38	1.67	38.61 -1.97	37.62	-0.97	-6.27	3068.35	-3.220e+04	-2.976e+04	631.13	-8945.47		
	39	0.94	25.01 0.37	24.45	0.93	3.65	1.624e+04	-7610.51	8998.62	-365.28	-1.097e+04		
3 2	94	6.98	16.49-12.69	7.08	-3.28	13.64	8.939e+04	-9.875e+04	9359.22	-1.871e+04	-9.302e+04		
	95	6.99	67.24 0.15	67.23	0.16	0.84	8.506e+04	-1.033e+05	-3.578e+04	1.752e+04	-9.034e+04		
	38	1.54	41.76 -1.82	40.70	-0.76	-6.72	1936.93	-2.876e+04	-2.735e+04	527.16	-6426.08		
	39	0.72	31.30 -0.02	30.58	0.71	4.70	1.011e+04	-7883.49	2463.24	-239.31	-8893.38		
4 1	93	8.72	-0.67 -57.34	-56.86	-1.15	5.21	1.327e+05	-1.022e+05	5.171e+04	-2.123e+04	-1.116e+05		
	94	8.96	26.93 -4.22	19.58	3.13	13.22	1.309e+05	-1.117e+05	-5344.90	2.462e+04	-1.204e+05		
	39	0.83	-0.42 -13.81	-13.40	-0.83	2.31	1.251e+04	-8842.70	3136.50	533.43	-1.060e+04		
	40	2.01	1.82 -27.25	-26.40	0.98	-4.88	4.259e+04	-2230.78	4.080e+04	-437.97	-8782.85		
4 2	93	6.68	-0.21 -32.66	-31.47	-1.40	6.11	9.947e+04	-8.090e+04	3.506e+04	-1.649e+04	-8.642e+04		
	94	6.86	29.67 -0.45	27.33	1.89	8.07	9.804e+04	-8.810e+04	-8830.32	1.878e+04	-9.204e+04		
	39	0.56	1.47 -0.65	1.46	-0.65	-0.12	7000.91	-8595.02	-2046.12	452.01	-7697.28		
	40	1.30	1.10 -8.90	-8.55	0.75	-1.86	2.872e+04	-2087.68	2.692e+04	-295.22	-7211.09		



5	1	92	8.45	1.51-103.48	-103.29	1.31	-4.55	1.424e+05	-7.777e+04	8.206e+04	-1.743e+04	-9.821e+04
		93	8.87	15.30-41.92	-31.79	5.17	21.85	1.444e+05	-9.001e+04	2.923e+04	2.513e+04	-1.172e+05
		40	2.22	1.10 -64.34	-62.58	-0.65	10.58	3.882e+04	-3162.16	3.524e+04	416.72	-1.172e+04
		60	3.57	3.14 -77.17	-75.01	0.98	-12.99	7.062e+04	-1040.04	7.007e+04	-487.45	-6268.43
5	2	92	6.40	0.52 -67.21	-67.18	0.49	-1.40	1.066e+05	-6.177e+04	5.841e+04	-1.357e+04	-7.610e+04
		93	6.73	12.29-21.01	-12.18	3.46	14.70	1.080e+05	-7.112e+04	1.776e+04	1.917e+04	-8.958e+04
		40	1.43	0.55 -37.43	-36.37	-0.51	6.24	2.556e+04	-2547.82	2.265e+04	362.23	-8562.79
		60	2.47	2.11 -47.30	-45.94	0.75	-8.09	4.999e+04	-886.60	4.944e+04	-333.29	-5276.90
6	1	91	8.22	4.96-145.34	-144.04	3.67	-13.90	1.483e+05	-5.318e+04	1.080e+05	-1.289e+04	-8.058e+04
		92	8.76	15.85-89.46	-80.55	6.93	29.32	1.534e+05	-6.719e+04	6.172e+04	2.451e+04	-1.087e+05
		60	3.78	2.55-110.96	-107.96	-0.45	18.18	6.730e+04	-1960.82	6.505e+04	285.69	-1.227e+04
		59	4.99	4.29-122.66	-119.32	0.94	-20.33	9.561e+04	-643.44	9.548e+04	-512.91	-3542.29
6	2	91	6.16	3.03 -99.26	-98.53	2.30	-8.59	1.107e+05	-4.246e+04	7.835e+04	-1.008e+04	-6.254e+04
		92	6.58	11.63-56.51	-49.69	4.82	20.45	1.147e+05	-5.322e+04	4.276e+04	1.869e+04	-8.308e+04
		60	2.62	1.65 -73.29	-71.28	-0.35	12.09	4.729e+04	-1454.22	4.558e+04	261.44	-8982.90
		59	3.55	2.99 -82.29	-80.02	0.72	-13.74	6.913e+04	-498.38	6.899e+04	-352.86	-3179.89
7	1	58	6.17	5.20-161.69	0.86	-157.35	26.58	1.160e+05	-515.97	-511.47	1.160e+05	724.08
		120	8.07	8.52-180.00	5.80	-177.29	22.46	1.508e+05	-3.019e+04	-7833.02	1.284e+05	5.955e+04
		91	8.63	17.14-133.42	8.35	-124.63	-35.30	1.581e+05	-4.456e+04	2.278e+04	9.071e+04	9.544e+04
		59	5.18	3.84-151.67	-0.22	-147.61	-24.78	9.285e+04	-1464.44	144.14	9.124e+04	1.221e+04
7	2	58	4.46	3.70-112.32	0.65	-109.27	18.55	8.478e+04	-363.84	-351.81	8.476e+04	1012.22
		120	5.99	5.72-125.88	3.95	-124.11	15.17	1.122e+05	-2.434e+04	-6190.80	9.408e+04	4.636e+04
		91	6.43	12.44-90.13	5.91	-83.60	-25.05	1.179e+05	-3.546e+04	1.736e+04	6.506e+04	7.286e+04
		59	3.69	2.65-104.61	-0.18	-101.78	-17.17	6.692e+04	-1044.05	152.60	6.573e+04	8938.70
8	1	57	7.05	5.86-192.37	0.74	-187.25	31.45	1.308e+05	-515.67	-483.38	1.308e+05	-2059.01
		119	8.00	11.79-205.59	7.62	-201.41	29.84	1.510e+05	-1.094e+04	-2469.12	1.425e+05	3.606e+04
		120	8.49	18.02-170.71	9.37	-162.06	-39.48	1.587e+05	-2.377e+04	2.005e+04	1.149e+05	7.796e+04
		58	6.32	4.91-184.61	9.28e-03	-179.71	-30.09	1.139e+05	-1174.07	1.03	1.127e+05	1.157e+04
8	2	57	5.13	4.20-135.91	0.56	-132.27	22.29	9.614e+04	-343.40	-330.19	9.612e+04	-1128.58
		119	5.89	8.22-145.54	5.34	-142.66	20.85	1.120e+05	-9087.24	-2064.73	1.049e+05	2.830e+04
		120	6.28	13.06-118.76	6.69	-112.39	-28.26	1.180e+05	-1.909e+04	1.526e+04	8.368e+04	5.941e+04
		58	4.57	3.48-129.95	5.09e-04	-126.47	-21.25	8.308e+04	-815.90	42.52	8.222e+04	8442.89
9	1	56	7.59	6.23-213.14	0.59	-207.50	34.72	1.394e+05	-586.71	-429.06	1.392e+05	-4695.02
		118	8.02	14.57-220.75	9.02	-215.21	35.69	1.507e+05	2110.06	2951.25	1.498e+05	1.115e+04
		119	8.34	18.22-199.33	9.93	-191.04	-41.65	1.567e+05	-6804.55	1.643e+04	1.334e+05	5.708e+04
		57	7.16	5.73-208.16	0.23	-202.65	-33.86	1.294e+05	-966.51	-136.28	1.286e+05	1.037e+04
9	2	56	5.55	4.49-151.89	0.45	-147.85	24.81	1.027e+05	-385.09	-288.40	1.026e+05	-3156.23
		118	5.87	10.35-157.20	6.42	-153.27	25.35	1.113e+05	1341.48	2104.80	1.105e+05	9129.60
		119	6.13	13.18-140.74	7.12	-134.68	-29.93	1.161e+05	-5671.20	1.247e+04	9.791e+04	4.335e+04
		57	5.21	4.11-148.06	0.17	-144.12	-24.15	9.503e+04	-658.13	-63.11	9.444e+04	7522.18
10	1	55	7.77	6.28-222.99	0.42	-217.12	36.20	1.416e+05	-695.78	-343.62	1.412e+05	-7069.71
		117	8.10	16.68-224.64	9.93	-217.90	39.78	1.515e+05	6806.57	8198.97	1.501e+05	-1.413e+04
		118	8.20	17.65-217.84	10.01	-210.20	-41.73	1.535e+05	4035.47	1.207e+04	1.455e+05	3.372e+04
		56	7.65	6.25-221.10	0.44	-215.28	-35.90	1.388e+05	-804.89	-263.56	1.383e+05	8676.98
10	2	55	5.69	4.53-159.46	0.31	-155.25	25.95	1.044e+05	-460.07	-222.77	1.042e+05	-4983.06
		117	5.93	11.98-160.19	7.13	-155.34	28.49	1.118e+05	5134.77	6141.41	1.108e+05	-1.031e+04



118	6.00	12.73-154.97	7.18	-149.42	-29.99	1.134e+05	2941.76	9119.86	1.072e+05	2.538e+04	
56	5.59	4.51-158.01	0.33	-153.83	-25.72	1.023e+05	-538.65	-161.02	1.019e+05	6219.94	
11 1	54	7.58	6.05-221.11	0.24	-215.30	35.87	1.370e+05	-846.17	-243.82	1.364e+05	-9093.62
116	8.23	18.00-216.89	10.34	-209.23	41.71	1.539e+05	2412.00	1.304e+04	1.432e+05	-3.868e+04	
117	8.08	16.25-225.04	9.59	-218.38	-39.54	1.512e+05	6611.34	7160.17	1.506e+05	8890.07	
55	7.77	6.48-222.49	0.63	-216.64	-36.13	1.417e+05	-678.67	-374.54	1.414e+05	6572.53	
11 2	54	5.54	4.35-158.02	0.18	-153.85	25.69	1.009e+05	-569.09	-145.91	1.005e+05	-6539.69
116	6.03	13.00-154.24	7.44	-148.68	29.98	1.137e+05	1649.50	9862.67	1.055e+05	-2.920e+04	
117	5.91	11.65-160.50	6.86	-155.72	-28.31	1.115e+05	4970.48	5342.44	1.111e+05	6284.12	
55	5.69	4.68-159.08	0.48	-154.88	-25.90	1.045e+05	-448.43	-246.30	1.043e+05	4600.91	
12 1	53	7.02	5.50-207.95	0.04	-202.49	33.67	1.262e+05	-1024.86	-124.28	1.253e+05	-1.067e+04
115	8.37	18.54-198.08	10.22	-189.76	41.64	1.567e+05	-9825.74	1.727e+04	1.297e+05	-6.147e+04	
116	8.02	14.13-220.80	8.66	-215.32	-35.44	1.506e+05	117.05	1913.45	1.488e+05	-1.634e+04	
54	7.53	6.35-212.55	0.77	-206.98	-34.49	1.381e+05	-577.93	-454.63	1.379e+05	4132.68	
12 2	53	5.11	3.92-147.90	0.03	-144.00	24.01	9.256e+04	-702.30	-53.96	9.192e+04	-7749.03
115	6.16	13.43-139.78	7.35	-133.70	29.92	1.162e+05	-8068.81	1.312e+04	9.501e+04	-4.673e+04	
116	5.88	10.02-157.24	6.14	-153.36	-25.16	1.113e+05	-259.94	1306.40	1.097e+05	-1.312e+04	
54	5.50	4.58-151.44	0.59	-147.45	-24.63	1.017e+05	-380.74	-308.00	1.016e+05	2724.24	
13 1	52	6.13	4.67-183.89	-0.15	-179.07	29.76	1.094e+05	-1248.37	9.10	1.081e+05	-1.173e+04
114	8.52	18.27-168.88	9.57	-160.18	39.39	1.582e+05	-2.765e+04	2.071e+04	1.098e+05	-8.154e+04	
115	8.01	11.37-205.16	7.29	-201.08	-29.46	1.507e+05	-1.431e+04	-3457.46	1.398e+05	-4.091e+04	
53	6.92	5.92-191.46	0.89	-186.44	-31.10	1.279e+05	-530.04	-513.24	1.279e+05	1469.05	
13 2	52	4.43	3.28-129.39	-0.13	-125.98	20.99	7.964e+04	-873.32	48.63	7.872e+04	-8566.00
114	6.31	13.25-117.35	6.85	-110.95	28.19	1.177e+05	-2.215e+04	1.577e+04	7.976e+04	-6.217e+04	
115	5.91	7.90-145.22	5.09	-142.41	-20.55	1.118e+05	-1.177e+04	-2825.05	1.028e+05	-3.202e+04	
53	5.03	4.25-135.22	0.68	-131.65	-22.02	9.392e+04	-357.91	-353.07	9.392e+04	675.26	
14 1	51	4.94	3.59-150.10	-0.35	-146.16	24.28	8.739e+04	-1566.58	147.44	8.568e+04	-1.223e+04
113	8.65	17.30-130.79	8.45	-121.93	35.12	1.566e+05	-4.878e+04	2.322e+04	8.461e+04	-9.800e+04	
114	8.09	8.11-178.89	5.51	-176.29	-21.90	1.498e+05	-3.436e+04	-8713.49	1.242e+05	-6.377e+04	
52	5.98	5.19-160.25	0.97	-156.03	-26.08	1.118e+05	-557.39	-542.11	1.118e+05	-1310.00	
14 2	51	3.51	2.46-103.40	-0.27	-100.66	16.78	6.273e+04	-1125.51	155.06	6.145e+04	-8951.45
113	6.45	12.57-88.11	5.98	-81.52	24.90	1.168e+05	-3.878e+04	1.770e+04	6.036e+04	-7.483e+04	
114	6.01	5.41-125.02	3.72	-123.34	-14.74	1.116e+05	-2.764e+04	-6868.16	9.081e+04	-4.961e+04	
52	4.31	3.69-111.21	0.74	-108.26	-18.17	8.153e+04	-401.40	-375.28	8.150e+04	-1462.53	
15 1	51	4.75	4.19-120.38	-117.19	1.00	19.67	9.037e+04	-724.18	9.019e+04	-540.68	4084.43
50	3.51	2.32-108.14	-105.29	-0.52	-17.49	6.133e+04	-2131.90	5.891e+04	284.28	1.214e+04	
112	8.76	15.97-85.81	-76.74	6.89	-29.01	1.511e+05	-7.132e+04	5.509e+04	2.468e+04	1.102e+05	
113	8.24	4.59-143.27	-142.10	3.42	13.12	1.466e+05	-5.762e+04	1.026e+05	-1.363e+04	8.394e+04	
15 2	51	3.37	2.92 -80.53	-78.38	0.77	13.24	6.511e+04	-571.78	6.491e+04	-374.22	3596.89
50	2.41	1.48 -71.12	-69.23	-0.41	-11.56	4.272e+04	-1599.86	4.086e+04	260.36	8886.93	
112	6.59	11.76-53.74	-46.76	4.78	-20.21	1.129e+05	-5.647e+04	3.766e+04	1.882e+04	8.418e+04	
113	6.18	2.75 -97.68	-97.04	2.11	7.98	1.095e+05	-4.595e+04	7.419e+04	-1.065e+04	6.512e+04	
16 1	50	3.30	2.98 -73.65	-71.67	1.00	12.15	6.479e+04	-1206.06	6.409e+04	-510.10	6741.19
49	1.94	0.90 -59.93	-58.34	-0.69	-9.69	3.300e+04	-3631.44	2.896e+04	415.74	1.148e+04	
111	8.85	15.73-37.41	-26.64	4.97	-21.35	1.413e+05	-9.371e+04	2.250e+04	2.506e+04	1.175e+05	
112	8.46	1.23-100.20	-100.08	1.10	3.50	1.399e+05	-8.203e+04	7.587e+04	-1.799e+04	1.006e+05	



16	2	50	2.26	1.99	-44.59	-43.37	0.76	7.45	4.553e+04	-1044.08	4.484e+04	-350.70	5640.56
	49		1.22	0.39	-34.03	-33.11	-0.53	-5.56	2.119e+04	-3009.96	1.782e+04	361.48	8379.18
	111		6.72	12.97	-17.90	-8.23	3.31	-14.32	1.057e+05	-7.403e+04	1.259e+04	1.911e+04	8.981e+04
	112		6.42	0.34	-64.72	-64.72	0.33	0.59	1.047e+05	-6.511e+04	5.364e+04	-1.401e+04	7.791e+04
17	1	49	1.74	1.60	-22.19	-21.55	0.95	3.86	3.685e+04	-2701.90	3.460e+04	-451.44	9161.62
	48		0.76	-0.60	-7.63	-7.40	-0.82	-1.23	9239.15	-1.159e+04	-2881.58	534.41	1.027e+04
	110		8.94	31.53	-2.65	26.10	2.77	-12.49	1.273e+05	-1.147e+05	-1.173e+04	2.431e+04	1.196e+05
	111		8.73	-0.51	-52.96	-52.14	-1.33	-6.52	1.295e+05	-1.059e+05	4.520e+04	-2.161e+04	1.129e+05
17	2	49	1.11	0.93	-5.01	-4.81	0.73	1.07	2.443e+04	-2581.29	2.215e+04	-305.58	7502.41
	48		0.63	6.20	-0.77	6.07	-0.64	0.95	5143.77	-1.137e+04	-6676.15	452.77	7446.30
	110		6.85	34.08	-0.12	32.35	1.62	-7.50	9.528e+04	-9.049e+04	-1.374e+04	1.853e+04	9.147e+04
	111		6.69	0.27	-29.64	-27.84	-1.54	-7.13	9.711e+04	-8.385e+04	3.005e+04	-1.679e+04	8.739e+04
18	1	48	0.89	31.68	0.11	30.92	0.87	-4.84	1.266e+04	-1.006e+04	2972.39	-367.87	1.124e+04
	47		1.93	46.41	-2.12	45.22	-0.93	7.51	2573.28	-3.716e+04	-3.522e+04	634.99	8559.16
	109		9.02	79.25	0.30	79.15	0.40	-2.82	1.096e+05	-1.333e+05	-4.611e+04	2.247e+04	1.165e+05
	110		9.02	14.49	-18.69	-0.43	-3.78	-16.50	1.155e+05	-1.280e+05	1.190e+04	-2.432e+04	1.204e+05
18	2	48	0.83	36.43	-0.22	35.55	0.66	-5.62	7944.06	-1.036e+04	-2173.07	-241.29	9100.13
	47		1.75	47.76	-1.94	46.55	-0.72	7.67	1661.08	-3.268e+04	-3.155e+04	530.14	6128.96
	109		6.98	73.15	-0.21	73.15	-0.21	-0.06	8.204e+04	-1.051e+05	-4.019e+04	1.712e+04	8.908e+04
	110		6.98	20.94	-12.42	11.94	-3.42	-14.80	8.668e+04	-1.011e+05	4437.82	-1.887e+04	9.317e+04
19	1	47	2.22	85.56	-1.42	83.40	0.75	-13.55	4614.77	-3.428e+04	-2.940e+04	-263.03	1.288e+04
	46		3.61	99.80	-3.58	97.21	-1.00	16.15	1319.59	-6.726e+04	-6.665e+04	713.02	6421.11
	108		9.11	130.55	-2.44	130.15	-2.05	7.23	8.925e+04	-1.488e+05	-7.915e+04	1.963e+04	1.083e+05
	109		9.32	62.60	-15.97	52.75	-6.12	-26.01	9.847e+04	-1.470e+05	-2.257e+04	-2.600e+04	1.227e+05
19	2	47	1.98	77.88	-1.40	75.92	0.57	-12.32	3367.33	-3.060e+04	-2.708e+04	-160.65	1.036e+04
	46		3.06	88.83	-3.06	86.55	-0.77	14.32	944.96	-5.609e+04	-5.573e+04	590.16	4484.30
	108		7.11	112.90	-2.60	112.39	-2.09	7.67	6.668e+04	-1.173e+05	-6.560e+04	1.493e+04	8.274e+04
	109		7.27	60.31	-12.69	52.85	-5.23	-22.12	7.386e+04	-1.161e+05	-2.208e+04	-2.017e+04	9.497e+04
20	1	46	3.89	137.08	-2.92	133.57	0.59	-21.89	2925.38	-6.418e+04	-6.112e+04	-141.91	1.402e+04
	45		5.23	150.18	-4.93	146.27	-1.02	24.31	926.21	-9.597e+04	-9.580e+04	764.93	3949.77
	107		9.22	178.48	-6.08	176.86	-4.46	17.21	6.725e+04	-1.607e+05	-1.094e+05	1.590e+04	9.524e+04
	108		9.58	114.78	-18.01	105.03	-8.26	-34.63	7.911e+04	-1.624e+05	-5.672e+04	-2.658e+04	1.198e+05
20	2	46	3.28	117.51	-2.55	114.51	0.45	-18.74	2281.24	-5.382e+04	-5.147e+04	-67.48	1.124e+04
	45		4.31	127.59	-4.10	124.28	-0.79	20.60	714.70	-7.824e+04	-7.816e+04	630.09	2583.25
	107		7.25	149.85	-5.48	148.32	-3.95	15.35	5.010e+04	-1.269e+05	-8.887e+04	1.207e+04	7.271e+04
	108		7.53	100.74	-14.55	93.07	-6.87	-28.75	5.927e+04	-1.282e+05	-4.835e+04	-2.061e+04	9.272e+04
21	1	45	5.48	183.96	-4.34	179.22	0.41	-29.51	2278.21	-9.308e+04	-9.079e+04	-9.62	1.459e+04
	44		6.67	195.35	-6.10	190.26	-1.01	31.64	801.30	-1.214e+05	-1.214e+05	788.45	1253.10
	106		9.35	220.37	-9.88	217.24	-6.74	26.69	4.510e+04	-1.692e+05	-1.355e+05	1.144e+04	7.797e+04
	107		9.80	164.23	-20.20	154.12	-10.10	-41.97	5.855e+04	-1.736e+05	-8.906e+04	-2.604e+04	1.117e+05
21	2	45	4.50	153.57	-3.64	149.63	0.31	-24.59	1826.25	-7.609e+04	-7.430e+04	34.28	1.168e+04
	44		5.42	162.34	-5.00	158.12	-0.78	26.23	650.81	-9.784e+04	-9.784e+04	648.18	508.89
	106		7.40	182.10	-8.43	179.37	-5.70	22.64	3.343e+04	-1.338e+05	-1.090e+05	8636.61	5.942e+04
	107		7.74	138.87	-16.32	130.83	-8.28	-34.39	4.377e+04	-1.372e+05	-7.322e+04	-2.019e+04	8.650e+04
22	1106		9.96	208.24	-21.92	-11.55	197.87	47.74	3.812e+04	-1.807e+05	-2.440e+04	-1.182e+05	-9.884e+04
	44		6.88	224.16	-5.60	0.21	218.35	36.06	1914.69	-1.189e+05	126.66	-1.171e+05	-1.459e+04



43	7.87	233.35-7.05	-0.95	227.25	-37.79	799.48-1.423e+05	782.78-1.423e+05	1545.99	
105	9.49	254.24-13.51	-8.79	249.52	-35.23	2.454e+04-1.745e+05	6446.53-1.564e+05-5.722e+04		
22	2106	7.90	172.75-17.68	-9.40	164.48	38.83	2.838e+04-1.429e+05-1.893e+04-9.561e+04-7.659e+04		
44	5.59	184.49-4.61	0.15	179.73	29.64	1557.91-9.597e+04	139.07-9.455e+04-1.168e+04		
43	6.34	191.56-5.72	-0.74	186.58	-30.96	667.45-1.140e+05	643.86-1.139e+05	1644.05	
105	7.55	208.17-11.24	-7.28	204.21	-29.21	1.800e+04-1.382e+05	4793.39-1.250e+05-4.346e+04		
23	1105	10.04	244.74-22.93	-12.56	234.37	51.66	1.943e+04-1.839e+05-2.171e+04-1.428e+05-8.168e+04		
43	8.03	255.91-6.66	-5.33e-03	249.26	41.26	1656.82-1.404e+05	263.66-1.390e+05-1.400e+04		
42	8.77	262.52-7.72	-0.85	255.65	-42.52	866.99-1.577e+05	748.28-1.576e+05	4337.72	
104	9.64	278.56-16.75	-10.51	272.32	-42.48	7560.72-1.775e+05	1138.98-1.711e+05-3.387e+04		
23	2105	8.00	200.85-18.47	-10.17	192.55	41.85	1.432e+04-1.457e+05-1.686e+04-1.145e+05-6.339e+04		
43	6.47	208.92-5.43	-0.01	203.50	33.64	1361.69-1.125e+05	244.45-1.114e+05-1.122e+04		
42	7.03	214.00-6.24	-0.66	208.42	-34.61	731.02-1.258e+05	617.33-1.257e+05	3791.52	
104	7.70	226.88-13.74	-8.60	221.74	-34.78	5301.88-1.409e+05	710.66-1.363e+05-2.550e+04		
24	1104	10.06	272.11-23.14	-13.07	262.04	53.59	4303.84-1.842e+05-1.809e+04-1.618e+05-6.100e+04		
42	8.88	277.90-7.47	-0.22	270.65	44.89	1445.28-1.564e+05	392.88-1.554e+05-1.285e+04		
41	9.32	281.60-8.09	-0.71	274.23	-45.64	980.50-1.669e+05	688.28-1.666e+05	6998.59	
103	9.79	292.28-19.47	-11.85	284.66	-48.14	-3796.34-1.794e+05	-4251.55-1.789e+05	-8929.03	
24	2104	8.03	221.92-18.64	-10.57	213.84	43.33	2970.48-1.462e+05-1.408e+04-1.292e+05-4.748e+04		
42	7.12	225.83-6.05	-0.18	219.96	36.43	1197.51-1.248e+05	343.82-1.240e+05-1.034e+04		
41	7.46	228.68-6.53	-0.56	222.71	-37.00	826.62-1.329e+05	571.22-1.326e+05	5838.42	
103	7.83	237.44-15.83	-9.63	231.24	-39.14	-3149.46-1.427e+05	-3435.78-1.424e+05	-6313.56	
25	1103	10.01	289.19-22.51	-13.06	279.74	53.44	-5331.20-1.829e+05-1.372e+04-1.745e+05-3.767e+04		
41	9.38	289.11-7.99	-0.43	281.55	46.77	1261.80-1.664e+05	513.16-1.656e+05-1.118e+04		
31	9.51	289.92-8.13	-0.54	282.33	-46.96	1115.01-1.696e+05	595.70-1.691e+05	9402.47	
102	9.92	294.84-21.47	-12.71	286.08	-51.91	-7927.12-1.813e+05	-9508.71-1.797e+05	1.648e+04	
25	2103	8.00	235.06-18.17	-10.56	227.45	43.22	-4244.86-1.454e+05-1.072e+04-1.390e+05-2.953e+04		
41	7.51	234.45-6.45	-0.34	228.34	37.87	1052.99-1.325e+05	436.35-1.319e+05	-9053.90	
31	7.61	235.08-6.56	-0.42	228.94	-38.02	936.05-1.350e+05	499.91-1.346e+05	7687.30	
102	7.94	239.41-17.37	-10.29	232.33	-42.04	-6199.40-1.443e+05	-7479.98-1.430e+05	1.323e+04	
26	1102	9.90	295.18-21.09	-12.57	286.66	51.20	-7809.67-1.810e+05	-8753.71-1.800e+05-1.275e+04	
31	9.50	289.15-8.22	-0.63	281.56	46.88	1103.46-1.696e+05	619.30-1.691e+05	-9078.29	
61	9.32	286.99-7.88	-0.34	279.46	-46.53	1283.90-1.654e+05	490.64-1.646e+05	1.147e+04	
101	10.01	286.14-22.75	-13.12	276.51	-53.68	-4258.21-1.832e+05-1.437e+04-1.731e+05	4.132e+04		
26	2102	7.92	239.67-17.08	-10.19	232.78	41.50	-6115.50-1.440e+05	-6898.89-1.432e+05-1.036e+04	
31	7.60	234.48-6.63	-0.49	228.35	37.96	926.53-1.350e+05	518.09-1.346e+05	-7438.63	
61	7.46	232.83-6.37	-0.27	226.73	-37.69	1070.70-1.317e+05	419.13-1.310e+05	9278.20	
101	8.00	232.71-18.35	-10.61	224.97	-43.40	-3439.69-1.456e+05-1.122e+04-1.379e+05	0.53.234e+04		
27	1101	9.77	289.97-18.88	-11.55	282.64	47.02	-2528.58-1.795e+05	-3449.39-1.786e+05	1.273e+04
61	9.26	278.17-8.11	-0.81	270.87	45.13	956.87-1.663e+05	694.35-1.661e+05	-6621.48	
33	8.77	273.12-7.30	-0.13	265.95	-44.26	1472.38-1.547e+05	369.45-1.536e+05	1.308e+04	
100	10.06	266.71-23.19	-13.01	256.53	-53.37	6346.03-1.847e+05-1.866e+04-1.597e+05	0.56.443e+04		
27	2101	7.82	235.66-15.38	-9.40	229.68	38.28	-2208.54-1.427e+05	-2818.86-1.421e+05	9239.28
61	7.42	226.04-6.54	-0.63	220.13	36.61	807.20-1.324e+05	575.72-1.322e+05	-5548.48	
33	7.04	222.16-5.92	-0.11	216.34	-35.94	1218.77-1.235e+05	325.93-1.226e+05	1.051e+04	
100	8.03	217.76-18.69	-10.53	209.60	-43.16	4502.66-1.466e+05-1.452e+04-1.275e+05	0.55.012e+04		



28	1100	9.63	273.82-16.07	-10.11	267.87	41.12	9863.85-1.777e+05	1996.35-1.698e+05	3.760e+04
	33	8.65	256.58-7.70	-0.95	249.82	41.71	850.68-1.563e+05	751.88-1.562e+05	-3938.52
	34	7.87	249.03-6.44	0.09	242.49	-40.33	1690.37-1.378e+05	236.32-1.364e+05	1.417e+04
	99	10.05	237.42-22.82	-12.42	227.01	-50.99	2.225e+04-1.842e+05	-2.216e+04-1.398e+05	58.483e+04
28	2100	7.68	223.24-13.21	-8.30	218.32	33.74	7022.34-1.410e+05	1370.24-1.353e+05	2.836e+04
	33	6.95	209.43-6.23	-0.73	203.94	33.98	716.92-1.247e+05	620.00-1.246e+05	-3484.90
	34	6.35	203.62-5.26	0.06	198.30	-32.92	1387.49-1.105e+05	223.51-1.094e+05	1.135e+04
	99	7.99	195.21-18.39	-10.07	186.89	-41.33	1.644e+04-1.459e+05	-1.722e+04-1.123e+05	56.581e+04
29	199	9.48	247.52-12.73	-8.29	243.08	33.69	2.765e+04-1.745e+05	7322.18-1.542e+05	6.080e+04
	34	7.71	225.48-7.00	-1.05	219.53	36.71	790.69-1.400e+05	781.73-1.400e+05	-1123.31
	35	6.68	215.78-5.34	0.31	210.12	-34.90	1966.32-1.156e+05	99.68-1.137e+05	1.470e+04
	98	9.96	199.64-21.68	-11.36	189.32	-46.66	4.149e+04-1.806e+05	-2.474e+04-1.144e+05	1.016e+05
29	299	7.54	203.00-10.64	-6.90	199.25	28.02	2.033e+04-1.382e+05	5467.06-1.233e+05	4.621e+04
	34	6.22	185.51-5.69	-0.82	180.64	30.14	658.40-1.122e+05	642.97-1.122e+05	-1319.32
	35	5.43	178.04-4.41	0.23	173.40	-28.74	1596.68-9.343e+04	118.40-9.196e+04	1.176e+04
	98	7.90	166.13-17.49	-9.25	157.90	-38.00	3.092e+04-1.428e+05	-1.920e+04-9.270e+04	7.871e+04
30	197	9.81	155.12-19.87	145.12	-9.88	40.60	6.227e+04-1.730e+05	-8.446e+04-2.628e+04	-1.140e+05
	98	9.35	212.30-9.07	209.42	-6.18	-25.10	4.877e+04-1.689e+05	-1.324e+05	1.229e+04-8.130e+04
	35	6.47	186.29-6.03	181.37	-1.11	-30.36	808.03-1.183e+05	-1.183e+05	783.82 -1697.97
	36	5.23	174.88-4.05	170.32	0.51	28.21	2370.15-8.904e+04	-8.663e+04	-35.17-1.463e+04
30	297	7.74	131.84-16.06	123.90	-8.12	33.34	4.658e+04-1.367e+05	-6.969e+04-2.038e+04	-8.824e+04
	98	7.40	175.89-7.81	173.36	-5.27	-21.41	3.620e+04-1.335e+05	-1.066e+05	9287.95-6.198e+04
	35	5.26	155.36-4.94	151.28	-0.86	-25.25	652.15-9.546e+04	-9.545e+04	644.62 -851.09
	36	4.32	146.59-3.42	142.78	0.39	23.60	1893.25-7.298e+04	-7.110e+04	14.63-1.171e+04
31	1123	12.39	62.84-31.79	41.81	-10.76	39.34	1.562e+05-2.110e+05	-1.111e+04-4.379e+04	-1.829e+05
	124	11.77	109.98-6.61	109.97	-6.59	1.22	1.291e+05-2.204e+05	-1.081e+05	1.684e+04-1.632e+05
	96	8.20	96.11-11.28	95.87	-11.04	-5.03	8.653e+04-1.536e+05	-8.956e+04	2.244e+04-1.062e+05
	95	8.19	62.53 -8.98	52.50	1.05	24.83	9.918e+04-1.426e+05	-1.772e+04-2.568e+04	-1.208e+05
31	2123	9.63	59.85-25.16	44.19	-9.50	32.95	1.172e+05-1.664e+05	-1.455e+04-3.464e+04	-1.415e+05
	124	9.12	96.65 -6.32	96.62	-6.29	-1.75	9.600e+04-1.732e+05	-8.919e+04	1.200e+04-1.247e+05
	96	6.42	85.63 -9.55	85.26	-9.18	-5.93	6.452e+04-1.217e+05	-7.445e+04	1.724e+04-8.105e+04
	95	6.40	59.45 -7.43	51.90	0.12	21.17	7.412e+04-1.131e+05	-1.919e+04-1.978e+04	-9.360e+04
32	1122	12.03	23.88-31.83	-2.62	-5.33	27.82	1.818e+05-1.801e+05	3.542e+04-3.373e+04	-1.776e+05
	123	11.97	69.44 -3.72	66.85	-1.12	13.53	1.629e+05-1.982e+05	-6.337e+04	2.799e+04-1.747e+05
	95	7.96	53.29 -8.30	52.93	-7.95	4.67	1.075e+05-1.327e+05	-4.956e+04	2.432e+04-1.143e+05
	94	7.89	22.18 -9.15	8.69	4.35	15.52	1.187e+05-1.198e+05	2.358e+04-2.468e+04	-1.168e+05
32	2122	9.30	27.63-22.94	10.01	-5.32	24.09	1.367e+05-1.424e+05	2.124e+04-2.690e+04	-1.374e+05
	123	9.21	64.35 -2.98	63.45	-2.09	7.72	1.217e+05-1.559e+05	-5.476e+04	2.058e+04-1.336e+05
	95	6.17	52.27 -6.84	52.23	-6.80	1.53	8.017e+04-1.052e+05	-4.369e+04	1.868e+04-8.726e+04
	94	6.10	26.44 -5.58	18.20	2.66	14.00	8.868e+04-9.511e+04	1.258e+04-1.900e+04	-9.053e+04
33	1121	11.47	4.97 -50.38	-45.63	0.23	15.50	2.009e+05-1.437e+05	7.949e+04-2.233e+04	-1.646e+05
	122	11.98	39.84-13.33	22.30	4.21	25.00	1.909e+05-1.698e+05	-1.659e+04	3.773e+04-1.783e+05
	94	7.84	17.79-13.28	9.11	-4.60	13.94	1.269e+05-1.099e+05	-8094.48	2.510e+04-1.172e+05
	93	7.70	8.18 -35.07	-34.28	7.38	5.80	1.361e+05-9.571e+04	6.302e+04-2.259e+04	-1.077e+05
33	2121	8.81	6.24 -30.36	-23.07	-1.05	14.61	1.511e+05-1.141e+05	5.513e+04-1.814e+04	-1.274e+05
	122	9.17	37.00 -5.80	29.18	2.02	16.54	1.430e+05-1.337e+05	-1.877e+04	2.807e+04-1.363e+05



94	6.00	21.45	-7.15	18.52	-4.22	8.66	9.459e+04	-8.710e+04	-1.179e+04	1.928e+04	-8.951e+04	
93	5.88	6.95	-16.81	-14.86	5.00	6.53	1.016e+05	-7.606e+04	4.291e+04	-1.740e+04	-8.354e+04	
34	1150	10.76	5.77	-85.57	-85.48	5.68	2.85	2.127e+05	-1.037e+05	1.191e+05	-1.010e+04	-1.444e+05
121	11.78	32.09	-44.79	-21.91	9.21	35.15	2.119e+05	-1.362e+05	3.004e+04	4.563e+04	-1.739e+05	
93	7.82	10.25	-45.27	-33.88	-1.14	22.42	1.438e+05	-8.610e+04	3.291e+04	2.475e+04	-1.149e+05	
92	7.63	10.22	-74.90	-74.72	10.04	-3.91	1.507e+05	-7.142e+04	9.877e+04	-1.952e+04	-9.398e+04	
34	2150	8.21	3.56	-54.14	-53.73	3.15	4.89	1.599e+05	-8.302e+04	8.557e+04	-8726.98	-1.119e+05
121	8.96	25.44	-24.41	-4.83	5.86	24.35	1.588e+05	-1.076e+05	1.710e+04	3.414e+04	-1.330e+05	
93	5.91	8.46	-24.56	-14.55	-1.56	15.18	1.071e+05	-6.830e+04	1.975e+04	1.902e+04	-8.769e+04	
92	5.75	7.06	-45.98	-45.96	7.04	-0.95	1.122e+05	-5.686e+04	7.041e+04	-1.504e+04	-7.296e+04	
35	1149	9.98	11.48	-121.18	-120.47	10.78	-9.63	2.172e+05	-6.247e+04	1.523e+05	2423.82	-1.181e+05
150	11.37	33.18	-83.48	-63.99	13.68	43.52	2.250e+05	-9.926e+04	7.433e+04	5.137e+04	-1.617e+05	
92	7.88	12.48	-84.53	-74.36	2.31	29.72	1.574e+05	-6.258e+04	7.154e+04	2.331e+04	-1.073e+05	
91	7.68	13.60	-112.34	-110.93	12.19	-13.25	1.619e+05	-4.832e+04	1.292e+05	-1.560e+04	-7.622e+04	
35	2149	7.55	7.32	-80.90	-80.65	7.07	-4.72	1.630e+05	-5.090e+04	1.112e+05	908.27	-9.163e+04
150	8.60	24.64	-52.52	-37.19	9.30	30.79	1.686e+05	-7.887e+04	5.117e+04	3.856e+04	-1.236e+05	
92	5.89	9.00	-53.59	-45.68	1.09	20.80	1.171e+05	-4.972e+04	4.947e+04	1.791e+04	-8.190e+04	
91	5.72	9.49	-74.61	-73.81	8.69	-8.13	1.204e+05	-3.858e+04	9.383e+04	-1.202e+04	-5.929e+04	
36	1120	7.80	16.74	-144.26	13.73	-141.24	21.81	1.700e+05	-2.789e+04	-1.102e+04	1.531e+05	5.526e+04
148	9.25	18.05	-151.79	15.29	-149.03	21.47	2.154e+05	-2.279e+04	1.467e+04	1.780e+05	8.672e+04	
149	10.80	35.42	-120.11	17.46	-102.15	-49.70	2.299e+05	-6.090e+04	5.470e+04	1.143e+05	1.423e+05	
91	7.99	15.57	-120.60	5.58	-110.62	-35.50	1.676e+05	-4.068e+04	2.084e+04	1.061e+05	9.501e+04	
36	2120	5.76	11.87	-99.12	9.88	-97.14	14.72	1.261e+05	-2.235e+04	-8497.44	1.122e+05	4.318e+04
148	6.92	12.20	-104.27	10.54	-102.61	13.82	1.611e+05	-1.991e+04	1.033e+04	1.309e+05	6.753e+04	
149	8.11	25.88	-80.22	12.21	-66.55	-35.54	1.721e+05	-4.904e+04	4.112e+04	8.193e+04	1.087e+05	
91	5.93	11.14	-81.10	3.61	-73.57	-25.25	1.244e+05	-3.237e+04	1.601e+04	7.603e+04	7.242e+04	
37	1119	7.95	19.25	-168.82	14.59	-164.16	29.23	1.751e+05	-1.165e+04	-5975.63	1.694e+05	3.206e+04
147	8.71	24.29	-175.06	18.97	-169.74	32.14	2.096e+05	1.146e+04	2.610e+04	1.949e+05	5.182e+04	
148	10.12	36.97	-151.26	20.39	-134.68	-53.36	2.275e+05	-2.367e+04	5.552e+04	1.483e+05	1.167e+05	
120	8.11	18.34	-150.79	8.56	-141.00	-39.49	1.743e+05	-2.182e+04	1.746e+04	1.350e+05	7.849e+04	
37	2119	5.84	13.79	-118.01	10.54	-114.76	20.42	1.296e+05	-9397.81	-4617.89	1.248e+05	2.533e+04
147	6.44	16.95	-122.12	13.37	-118.54	22.03	1.560e+05	7032.96	1.912e+04	1.439e+05	4.068e+04	
148	7.54	26.88	-103.99	14.46	-91.57	-38.35	1.698e+05	-2.003e+04	4.175e+04	1.080e+05	8.895e+04	
120	5.97	13.18	-104.23	5.90	-96.95	-28.31	1.291e+05	-1.741e+04	1.341e+04	9.830e+04	5.972e+04	
38	1118	8.09	20.92	-184.67	14.72	-178.47	35.15	1.780e+05	-1026.90	-703.34	1.777e+05	7604.37
146	8.45	29.65	-189.56	21.64	-181.55	41.14	2.039e+05	3.487e+04	3.619e+04	2.026e+05	1.487e+04	
147	9.43	37.24	-174.93	22.30	-160.00	-54.27	2.194e+05	9162.91	5.378e+04	1.748e+05	8.597e+04	
119	8.19	20.40	-173.32	11.08	-164.00	-41.46	1.780e+05	-7480.23	1.332e+04	1.572e+05	5.854e+04	
38	2118	5.92	15.07	-130.20	10.64	-125.77	24.97	1.314e+05	-883.72	-562.25	1.311e+05	6514.26
146	6.20	21.06	-133.26	15.43	-127.62	28.95	1.510e+05	2.567e+04	2.688e+04	1.498e+05	1.225e+04	
147	6.97	26.99	-122.10	15.93	-111.05	-39.06	1.632e+05	5669.21	4.041e+04	1.285e+05	6.532e+04	
119	6.01	14.72	-121.52	7.84	-114.64	-29.83	1.316e+05	-5988.37	1.023e+04	1.154e+05	4.437e+04	
39	1117	8.19	21.65	-190.89	14.10	-183.34	39.33	1.793e+05	2914.44	4577.17	1.777e+05	-1.705e+04
145	8.55	33.84	-194.42	23.19	-183.77	48.14	2.040e+05	4.133e+04	4.451e+04	2.008e+05	-2.255e+04	
146	8.85	36.04	-189.79	23.11	-176.87	-52.45	2.096e+05	3.294e+04	4.953e+04	1.930e+05	5.152e+04	
118	8.22	21.59	-186.99	13.04	-178.44	-41.36	1.795e+05	1009.66	8602.59	1.719e+05	3.602e+04	





39	2117	5.99	15.64-134.99	10.17	-129.52	28.19	1.323e+05	2296.71	3499.57	1.311e+05	-1.245e+04
145	6.26	24.29-137.01	16.61	-129.33	34.33	1.508e+05	3.096e+04	3.328e+04	1.485e+05	-1.653e+04	
146	6.50	26.01-133.47	16.56	-124.02	-37.65	1.552e+05	2.438e+04	3.714e+04	1.425e+05	3.881e+04	
118	6.02	15.61-132.00	9.35	-125.74	-29.75	1.325e+05	786.04	6596.27	1.267e+05	2.704e+04	
40	1116	8.22	21.35-187.01	12.77	-178.44	41.39	1.790e+05	-222.17	9624.45	1.691e+05	-4.083e+04
144	8.95	36.45-189.17	23.50	-176.21	52.48	2.111e+05	2.915e+04	5.071e+04	1.896e+05	-5.881e+04	
145	8.50	33.21-194.80	22.73	-184.32	-47.74	2.033e+05	4.161e+04	4.298e+04	2.020e+05	1.481e+04	
117	8.17	21.76-190.79	14.34	-183.37	-39.02	1.791e+05	2690.16	3499.85	1.783e+05	1.193e+04	
40	2116	6.02	15.43-132.03	9.15	-125.75	29.78	1.321e+05	-197.35	7382.00	1.245e+05	-3.075e+04
144	6.58	26.33-133.00	16.86	-123.52	37.68	1.565e+05	2.138e+04	3.805e+04	1.398e+05	-4.443e+04	
145	6.22	23.81-137.30	16.27	-129.75	-34.04	1.503e+05	3.116e+04	3.210e+04	1.493e+05	1.058e+04	
117	5.98	15.73-134.92	10.35	-129.54	-27.95	1.322e+05	2111.90	2671.00	1.316e+05	8509.05	
41	1115	8.18	20.12-173.45	10.79	-164.11	41.46	1.769e+05	-9980.27	1.423e+04	1.527e+05	-6.276e+04
143	9.56	37.62-174.27	22.63	-159.28	54.33	2.208e+05	3140.00	5.451e+04	1.694e+05	-9.242e+04	
144	8.48	29.07-189.89	21.20	-182.02	-40.76	2.046e+05	3.140e+04	3.438e+04	2.016e+05	-2.255e+04	
116	8.07	20.97-184.69	14.90	-178.62	-34.81	1.774e+05	-2660.35	-1757.72	1.765e+05	-1.272e+04	
41	2115	6.01	14.51-121.61	7.62	-114.73	29.83	1.308e+05	-7983.68	1.093e+04	1.119e+05	-4.761e+04
143	7.08	27.28-121.59	16.19	-110.49	39.10	1.643e+05	938.89	4.097e+04	1.243e+05	-7.028e+04	
144	6.23	20.61-133.51	15.09	-127.99	-28.66	1.517e+05	2.288e+04	2.549e+04	1.491e+05	-1.816e+04	
116	5.91	15.11-130.22	10.78	-125.89	-24.71	1.310e+05	-2197.66	-1373.41	1.302e+05	-1.045e+04	
42	1114	8.09	18.00-150.65	8.24	-140.89	39.38	1.724e+05	-2.528e+04	1.821e+04	1.289e+05	-8.189e+04
142	10.25	37.24-150.29	20.59	-133.64	53.34	2.276e+05	-3.072e+04	5.577e+04	1.411e+05	-1.219e+05	
143	8.79	23.68-175.17	18.55	-170.04	-31.52	2.103e+05	5424.59	2.412e+04	1.916e+05	-5.900e+04	
115	7.93	19.22-168.86	14.72	-164.37	-28.73	1.738e+05	-1.448e+04	-6960.90	1.663e+05	-3.687e+04	
42	2114	5.97	12.91-104.12	5.65	-96.86	28.23	1.277e+05	-2.016e+04	1.399e+04	9.359e+04	-6.233e+04
142	7.65	27.09-103.24	14.62	-90.77	38.34	1.700e+05	-2.554e+04	4.194e+04	1.026e+05	-9.297e+04	
143	6.52	16.48-122.21	13.05	-118.77	-21.56	1.567e+05	2256.62	1.760e+04	1.414e+05	-4.620e+04	
115	5.83	13.76-118.04	10.64	-114.92	-20.04	1.286e+05	-1.166e+04	-5375.82	1.223e+05	-2.902e+04	
43	1113	7.96	15.19-119.86	5.24	-109.91	35.28	1.649e+05	-4.472e+04	2.138e+04	9.879e+04	-9.739e+04
141	10.90	35.58-118.62	17.49	-100.53	49.62	2.285e+05	-6.811e+04	5.443e+04	1.059e+05	-1.460e+05	
142	9.37	17.44-151.45	14.90	-148.90	-20.58	2.153e+05	-3.004e+04	1.263e+04	1.726e+05	-9.300e+04	
114	7.77	16.62-144.06	13.79	-141.23	-21.13	1.678e+05	-3.158e+04	-1.188e+04	1.481e+05	-5.950e+04	
43	2113	5.91	10.84-80.52	3.35	-73.03	25.07	1.224e+05	-3.558e+04	1.642e+04	7.043e+04	-7.425e+04
141	8.20	26.02-79.08	12.24	-65.30	35.47	1.711e+05	-5.466e+04	4.092e+04	7.549e+04	-1.115e+05	
142	7.02	11.75-104.02	10.24	-102.51	-13.14	1.611e+05	-2.559e+04	8761.23	1.268e+05	-7.235e+04	
114	5.75	11.78-98.97	9.93	-97.13	-14.19	1.245e+05	-2.529e+04	-9156.40	1.084e+05	-4.643e+04	
44	1113	7.65	13.40-111.55	-110.32	12.17	12.34	1.590e+05	-5.247e+04	1.228e+05	-1.630e+04	7.964e+04
112	7.85	12.08-82.77	-72.61	1.92	-29.34	1.540e+05	-6.680e+04	6.364e+04	2.360e+04	1.086e+05	
140	11.43	33.30-81.27	-61.45	13.48	-43.33	2.219e+05	-1.060e+05	6.534e+04	5.056e+04	1.638e+05	
141	10.09	10.96-120.15	-119.61	10.42	8.41	2.157e+05	-6.994e+04	1.454e+05	414.29	1.231e+05	
44	2113	5.71	9.35 -74.02	-73.35	8.68	7.43	1.182e+05	-4.187e+04	8.893e+04	-1.256e+04	6.192e+04
112	5.88	8.72 -52.26	-44.34	0.79	-20.51	1.146e+05	-5.306e+04	4.339e+04	1.813e+04	8.287e+04	
140	8.65	24.79-50.88	-35.24	9.15	-30.64	1.663e+05	-8.410e+04	4.425e+04	3.794e+04	1.252e+05	
141	7.64	6.96 -80.14	-79.98	6.79	3.77	1.619e+05	-5.674e+04	1.058e+05	-638.26	9.549e+04	
45	1112	7.61	10.01-73.16	-73.07	9.92	2.76	1.471e+05	-7.566e+04	9.144e+04	-2.002e+04	9.642e+04
111	7.78	10.13-42.39	-30.69	-1.57	-21.85	1.399e+05	-9.015e+04	2.493e+04	2.480e+04	1.150e+05	



139	11.78	32.58-42.01	-18.17	8.73	-34.79	2.073e+05-1.420e+05	2.103e+04	4.435e+04	1.743e+05	
140	10.84	5.54 -83.74	-83.51	5.32	-4.45	2.097e+05-1.107e+05	1.109e+05-1.199e+04	1.479e+05		
45	2112	5.74	6.95 -44.69	-44.69	6.95	0.06	1.096e+05-6.023e+04	6.478e+04-1.542e+04	7.484e+04	
111	5.90	8.61 -22.60	-12.10	-1.89	-14.75	1.042e+05-7.152e+04	1.361e+04	1.905e+04	8.781e+04	
139	8.97	26.13-22.58	-1.95	5.50	-24.07	1.554e+05-1.121e+05	1.017e+04	3.315e+04	1.332e+05	
140	8.28	3.54 -52.88	-52.21	2.87	-6.12	1.576e+05-8.847e+04	7.933e+04-1.018e+04	1.146e+05		
46	1111	7.68	8.46 -32.49	-31.18	7.15	-7.20	1.321e+05-9.970e+04	5.531e+04-2.289e+04	1.091e+05	
110	7.81	20.64-11.78	13.94	-5.08	-13.13	1.227e+05-1.135e+05	-1.564e+04	2.490e+04	1.164e+05	
138	11.94	42.53-11.72	27.35	3.46	-24.35	1.852e+05-1.742e+05	-2.504e+04	3.604e+04	1.771e+05	
139	11.51	6.11 -48.55	-42.26	-0.18	-17.44	1.966e+05-1.497e+05	7.087e+04-2.404e+04	1.665e+05		
46	2111	5.88	7.69 -15.34	-12.47	4.82	-7.60	9.857e+04-7.923e+04	3.698e+04-1.763e+04	8.460e+04	
110	5.99	24.46 -6.81	22.24	-4.59	-8.04	9.149e+04-8.996e+04	-1.760e+04	1.914e+04	8.885e+04	
138	9.14	39.78 -5.27	33.07	1.44	-16.04	1.387e+05-1.372e+05	-2.528e+04	2.677e+04	1.354e+05	
139	8.86	7.81 -29.65	-20.48	-1.36	-16.11	1.478e+05-1.188e+05	4.850e+04-1.945e+04	1.289e+05		
47	1110	7.89	26.43 -9.01	13.44	3.98	-17.08	1.145e+05-1.233e+05	1.599e+04-2.478e+04	1.172e+05	
109	7.95	59.46 -8.63	59.27	-8.44	-3.59	1.033e+05-1.357e+05	-5.632e+04	2.392e+04	1.126e+05	
137	11.89	75.11 -4.13	73.08	-2.10	-12.52	1.564e+05-2.013e+05	-7.088e+04	2.601e+04	1.722e+05	
138	12.03	28.47-32.00	2.29	-5.82	-29.96	1.765e+05-1.848e+05	2.687e+04-3.522e+04	1.780e+05		
47	2110	6.11	30.17 -5.93	21.86	2.38	-15.20	8.553e+04-9.788e+04	6732.30-1.909e+04	9.079e+04	
109	6.18	57.12 -7.18	57.11	-7.17	-0.70	7.702e+04-1.075e+05	-4.889e+04	1.838e+04	8.593e+04	
137	9.16	68.91 -3.51	68.24	-2.84	-6.94	1.168e+05-1.583e+05	-6.054e+04	1.905e+04	1.316e+05	
138	9.31	31.57-23.48	13.79	-5.70	-25.74	1.327e+05-1.460e+05	1.465e+04-2.805e+04	1.377e+05		
48	1109	8.20	69.03 -9.66	58.80	0.56	-26.46	9.500e+04-1.454e+05	-2.481e+04-2.561e+04	1.202e+05	
108	8.21	103.66-11.87	103.31	-11.51	6.37	8.248e+04-1.559e+05	-9.533e+04	2.187e+04	1.038e+05	
136	11.67	116.98-7.70	116.98	-7.70	0.21	1.223e+05-2.221e+05	-1.145e+05	1.468e+04	1.596e+05	
137	12.36	69.44-32.67	48.14	-11.36	-41.49	1.502e+05-2.143e+05	-1.915e+04-4.503e+04	1.818e+05		
48	2109	6.42	64.51 -8.01	56.75	-0.25	-22.42	7.098e+04-1.153e+05	-2.465e+04-1.972e+04	9.313e+04	
108	6.44	91.47-10.02	90.99	-9.54	6.97	6.148e+04-1.236e+05	-7.889e+04	1.681e+04	7.919e+04	
136	9.04	102.09-7.22	102.01	-7.15	2.85	9.081e+04-1.746e+05	-9.408e+04	1.034e+04	1.220e+05	
137	9.61	65.03-25.93	49.06	-9.96	-34.61	1.127e+05-1.690e+05	-2.074e+04-3.559e+04	1.406e+05		
49	1108	8.59	113.37-13.44	102.88	-2.96	-34.92	7.446e+04-1.651e+05	-6.530e+04-2.533e+04	1.181e+05	
107	8.55	145.76-15.83	144.10	-14.17	16.30	6.138e+04-1.735e+05	-1.310e+05	1.887e+04	9.043e+04	
135	11.32	158.15-14.13	157.13	-13.11	13.25	8.472e+04-2.361e+05	-1.539e+05	2556.35	1.400e+05	
136	12.47	113.64-36.93	93.25	-16.54	-51.52	1.188e+05-2.370e+05	-6.518e+04-5.304e+04	1.778e+05		
49	2108	6.77	98.87-11.18	90.66	-2.96	-28.92	5.564e+04-1.309e+05	-5.580e+04-1.951e+04	9.151e+04	
107	6.76	123.94-13.15	122.36	-11.58	14.60	4.572e+04-1.375e+05	-1.063e+05	1.449e+04	6.890e+04	
135	8.83	134.04-12.45	132.89	-11.31	12.88	6.223e+04-1.857e+05	-1.244e+05	1009.43	1.069e+05	
136	9.74	99.54-29.73	83.76	-13.94	-42.32	8.882e+04-1.867e+05	-5.615e+04-4.176e+04	1.376e+05		
50	1107	9.00	154.73-17.43	143.74	-6.44	-42.09	5.403e+04-1.817e+05	-1.037e+05	-2.397e+04	1.109e+05
106	8.93	183.19-19.60	179.86	-16.28	25.75	4.129e+04-1.879e+05	-1.616e+05	1.502e+04	7.302e+04	
134	10.92	194.93-21.26	191.75	-18.08	26.02	4.600e+04-2.434e+05	-1.875e+05	-9848.41	1.142e+05	
135	12.36	155.73-41.23	135.64	-21.14	-59.60	8.399e+04-2.521e+05	-1.092e+05	-5.891e+04	1.662e+05	
50	2107	7.14	130.78-14.33	122.08	-5.64	-34.44	4.036e+04-1.442e+05	-8.535e+04-1.846e+04	8.599e+04	
106	7.10	152.75-16.09	149.87	-13.20	21.87	3.071e+04-1.491e+05	-1.299e+05	1.153e+04	5.550e+04	
134	8.58	162.43-18.03	159.53	-15.13	22.71	3.284e+04-1.916e+05	-1.503e+05	-8532.61	8.704e+04	
135	9.70	132.12-33.23	116.37	-17.48	-48.54	6.233e+04-1.986e+05	-9.003e+04-4.627e+04	1.286e+05		



51	1134	12.07	193.07-44.57	-24.94	173.44	65.42	4.779e+04-2.595e+05-6.238e+04-1.493e+05-1.474e+05
106	9.39	190.91-21.04	-9.71	179.58	47.68	3.495e+04-1.949e+05-2.158e+04-1.384e+05-9.899e+04	
105	9.31	214.12-22.84	-17.76	209.04	-34.31	2.356e+04-1.991e+05 1.050e+04-1.861e+05-5.233e+04	
133	10.55	225.17-28.23	-22.40	219.35	-37.96	9117.28-2.449e+05-2.200e+04-2.138e+05-8.328e+04	
51	2134	9.51	160.94-35.91	-20.41	145.45	53.01	3.480e+04-2.046e+05-4.894e+04-1.209e+05-1.142e+05
106	7.48	158.65-17.15	-8.15	149.65	38.74	2.610e+04-1.547e+05-1.662e+04-1.120e+05-7.681e+04	
105	7.43	176.56-18.59	-14.35	172.32	-28.45	1.748e+04-1.581e+05 8052.39-1.487e+05-3.959e+04	
133	8.35	185.74-23.44	-18.46	180.76	-31.89	4929.08-1.933e+05-1.788e+04-1.705e+05-6.325e+04	
52	1133	11.64	223.78-46.56	-27.80	205.03	68.69	1.274e+04-2.598e+05-6.327e+04-1.838e+05-1.222e+05
105	9.72	220.20-24.00	-12.64	208.84	51.42	1.854e+04-2.046e+05-1.824e+04-1.678e+05-8.279e+04	
104	9.64	237.16-25.32	-18.55	230.39	-41.61	9522.25-2.071e+05 5501.88-2.031e+05-2.924e+04	
132	10.31	247.37-34.51	-25.89	238.74	-48.56	2.209e+04-2.428e+05-3.335e+04-2.315e+05-4.857e+04	
52	2133	9.22	184.62-37.49	-22.61	169.75	55.53	8177.13-2.052e+05-4.962e+04-1.474e+05-9.482e+04
105	7.75	181.20-19.45	-10.41	172.16	41.62	1.383e+04-1.625e+05-1.405e+04-1.346e+05-6.435e+04	
104	7.70	194.28-20.50	-14.95	188.73	-34.07	7032.51-1.646e+05 4210.92-1.618e+05-2.183e+04	
132	8.21	202.83-28.29	-21.13	195.67	-40.04	1.854e+04-1.922e+05-2.661e+04-1.841e+05-3.655e+04	
53	1132	11.16	246.43-46.98	-29.58	229.03	69.30	1.792e+04-2.547e+05-6.155e+04-2.110e+05-9.179e+04
104	9.94	241.31-26.13	-15.10	230.28	53.18	6078.98-2.109e+05-1.412e+04-1.907e+05-6.304e+04	
103	9.89	251.30-26.92	-18.61	243.00	-47.35	359.42-2.121e+05 253.37-2.120e+05 -4746.07	
131	10.26	260.51-39.80	-28.42	249.12	-57.35	4.273e+04-2.406e+05-4.341e+04-2.400e+05-1.157e+04	
53	2132	8.88	202.08-37.85	-23.98	188.20	56.00	1.503e+04-2.016e+05-4.830e+04-1.684e+05-7.142e+04
104	7.94	197.46-21.10	-12.29	188.65	42.97	4531.76-1.676e+05-1.088e+04-1.522e+05-4.916e+04	
103	7.91	205.16-21.73	-15.00	198.44	-38.49	226.52-1.687e+05 173.73-1.687e+05 -2986.03	
131	8.20	212.94-32.37	-23.08	203.66	-46.81	3.393e+04-1.910e+05-3.435e+04-1.906e+05 -8087.03	
54	1131	10.72	260.01-45.76	-30.20	244.44	67.21	3.997e+04-2.474e+05-5.730e+04-2.300e+05-5.739e+04
103	10.04	253.32-27.31	-16.97	242.98	52.87	-1348.47-2.141e+05 -9390.79-2.061e+05-4.058e+04	
102	10.03	255.94-27.51	-17.92	246.35	-51.25	-3121.81-2.145e+05 -5040.98-2.126e+05 2.005e+04	
130	10.43	263.95-43.70	-29.79	250.04	-63.92	4.821e+04-2.424e+05-5.177e+04-2.389e+05 2.606e+04	
54	2131	8.56	212.55-36.93	-24.45	200.06	54.39	3.167e+04-1.963e+05-4.503e+04-1.830e+05-4.496e+04
103	8.03	206.71-22.02	-13.74	198.42	42.73	-1013.61-1.703e+05 -7245.13-1.641e+05-3.188e+04	
102	8.02	208.73-22.18	-14.47	201.02	-41.48	-2347.02-1.707e+05 -3899.09-1.691e+05 1.609e+04	
130	8.34	215.58-35.36	-24.14	204.36	-51.86	3.792e+04-1.926e+05-4.078e+04-1.898e+05 2.086e+04	
55	1130	10.39	263.95-43.02	-29.69	250.62	62.56	4.845e+04-2.418e+05-5.066e+04-2.396e+05-2.055e+04
102	10.01	255.76-27.52	-18.21	246.46	50.49	-2957.24-2.143e+05 -4237.04-2.130e+05-1.640e+04	
101	10.03	250.97-27.14	-16.57	240.41	-53.16	-561.31-2.139e+05-1.012e+04-2.043e+05 4.413e+04	
129	10.78	257.65-46.20	-30.11	241.55	-68.06	3.733e+04-2.486e+05-5.800e+04-2.279e+05 5.276e+04	
55	2130	8.31	215.59-34.83	-24.06	204.81	50.82	3.811e+04-1.921e+05-3.992e+04-1.903e+05-1.663e+04
102	8.01	208.59-22.19	-14.69	201.10	40.90	-2225.99-1.705e+05 -3280.36-1.694e+05-1.328e+04	
101	8.02	204.90-21.88	-13.43	196.45	-42.95	-424.35-1.701e+05 -7802.65-1.628e+05 3.461e+04	
129	8.60	210.72-37.27	-24.38	197.84	-55.04	2.968e+04-1.972e+05-4.557e+04-1.813e+05 4.909e+04	
56	1129	10.27	258.12-38.72	-27.94	247.34	55.53	4.052e+04-2.412e+05-4.200e+04-2.397e+05 1.718e+04
101	9.86	248.57-26.69	-18.71	240.59	46.20	1410.16-2.120e+05 1072.27-2.116e+05 8484.57	
100	9.92	236.66-25.75	-14.57	225.48	-53.01	7708.44-2.106e+05-1.478e+04-1.881e+05 5.636e+04	
128	11.25	241.92-47.04	-29.23	224.11	-69.49	1.364e+04-2.562e+05-6.191e+04-2.079e+05 9.683e+04	
56	2129	8.20	211.11-31.53	-22.71	202.29	45.41	3.229e+04-1.914e+05-3.326e+04-1.904e+05 1.240e+04
101	7.89	203.06-21.55	-15.07	196.58	37.60	1006.42-1.686e+05 803.51-1.684e+05 5862.30	



100	7.92	193.88-20.80	-11.89	184.96	-42.84	5749.12-1.674e+05-1.139e+04-1.503e+055.171e+04	
128	8.94	198.60-37.89	-23.71	184.42	-56.15-1.179e+04-2.027e+05-4.858e+04-1.660e+057.530e+04		
57	1128	10.36	242.93-33.25	-25.19	234.86	46.50-1.784e+04-2.439e+05-3.162e+04-2.301e+055.408e+04	
100	9.60	232.19-24.95	-18.50	225.74	40.20	1.143e+04-2.067e+05 6345.07-2.016e+05 3.292e+04	
99	9.68	213.74-23.46	-12.03	202.31	-50.80	2.095e+04-2.040e+05-1.882e+04-1.642e+058.582e+04	
127	11.74	217.53-46.28	-27.26	198.51	-68.24	1.812e+04-2.609e+05-6.326e+04-1.796e+051.268e+05	
57	2128	8.24	199.42-27.32	-20.60	192.69	38.46-1.536e+04-1.929e+05-2.528e+04-1.830e+054.079e+04	
100	7.67	190.46-20.21	-14.91	185.16	32.99	8454.28-1.643e+05 4859.57-1.607e+05 2.466e+04	
99	7.72	176.23-19.03	-9.93	167.13	-41.14	1.564e+04-1.620e+05-1.449e+04-1.319e+056.668e+04	
127	9.29	179.80-37.27	-22.19	164.73	-55.18	1.226e+04-2.060e+05-4.962e+04-1.441e+059.838e+04	
58	1127	10.63	219.08-26.81	-21.47	213.75	35.81	1.472e+04-2.459e+05-2.002e+04-2.111e+058.859e+04
99	9.27	207.39-22.33	-17.56	202.63	32.73	2.622e+04-1.984e+05 1.133e+04-1.835e+05 5.588e+04	
98	9.36	183.28-20.37	-9.06	171.96	-46.65	3.802e+04-1.939e+05-2.205e+04-1.339e+051.016e+05	
126	12.16	185.67-44.01	-24.29	165.94	-64.35	5.383e+04-2.599e+05-6.202e+04-1.441e+051.514e+05	
58	2127	8.40	181.05-22.34	-17.74	176.45	30.24	9167.72-1.939e+05-1.636e+04-1.684e+056.733e+04
99	7.39	171.38-18.19	-14.19	167.38	27.24	1.947e+04-1.575e+05 8691.95-1.467e+05 4.232e+04	
98	7.44	152.77-16.63	-7.65	143.79	-37.95	2.839e+04-1.539e+05-1.698e+04-1.085e+057.882e+04	
126	9.58	155.23-35.46	-19.90	139.68	-52.19	3.939e+04-2.049e+05-4.866e+04-1.168e+051.173e+05	
59	1125	12.44	147.87-40.44	127.86	-20.43	58.03	9.033e+04-2.515e+05-1.029e+05-5.825e+04-1.694e+05
126	11.02	187.81-19.80	185.01	-17.00	-23.95	5.242e+04-2.438e+05-1.837e+05 -7722.17-1.192e+05	
98	8.89	175.38-19.00	172.34	-15.96	-24.11	4.457e+04-1.868e+05-1.580e+051.580e+04-7.635e+04	
97	8.97	146.71-16.69	135.82	-5.80	40.75	5.762e+04-1.802e+05-9.825e+04-2.434e+04-1.130e+05	
59	2125	9.76	126.05-32.60	110.38	-16.94	47.33	6.716e+04-1.981e+05-8.517e+04-4.576e+04-1.312e+05
126	8.65	156.94-16.90	154.34	-14.30	-21.11	3.771e+04-1.919e+05-1.473e+05 -6896.32-9.084e+04	
98	7.06	146.74-15.62	144.08	-12.96	-20.61	3.316e+04-1.482e+05-1.271e+051.213e+04-5.806e+04	
97	7.11	124.60-13.74	115.99	-5.14	33.41	4.305e+04-1.429e+05-8.114e+04-1.874e+04-8.761e+04	
60	1124	12.53	106.04-36.00	85.90	-15.86	49.56	1.251e+05-2.351e+05-5.793e+04-5.208e+04-1.801e+05
125	11.43	150.71-12.77	149.91	-11.96	-11.44	9.152e+04-2.356e+05-1.488e+05 4754.35-1.444e+05	
97	8.52	137.67-15.19	136.23	-13.75	-14.76	6.513e+04-1.718e+05-1.263e+051.956e+04-9.339e+04	
96	8.56	105.74-12.68	95.44	-2.38	33.37	7.843e+04-1.630e+05-5.896e+04-2.557e+04-1.195e+05	
60	2124	9.78	93.66-28.97	78.10	-13.42	40.81	9.364e+04-1.852e+05-5.057e+04-4.102e+04-1.393e+05
125	8.91	128.29-11.37	127.34	-10.42	-11.49	6.741e+04-1.852e+05-1.205e+05 2701.00-1.103e+05	
97	6.73	117.70-12.66	116.31	-11.26	-13.41	4.852e+04-1.362e+05-1.027e+051.502e+04-7.117e+04	
96	6.75	92.98-10.56	84.93	-2.51	27.73	5.861e+04-1.292e+05-5.092e+04-1.969e+04-9.261e+04	
61	1157	10.86	187.75-45.25	-28.35	170.85	60.43-4.845e+04-3.294e+05-8.806e+04-2.898e+059.777e+04	
127	10.37	163.95-36.97	-31.67	158.65	32.19	1.407e+04-2.794e+05-1.409e+04-2.512e+058.642e+04	
126	11.37	159.05-39.86	-18.62	137.81	-61.43	5.015e+04-2.810e+05-5.953e+04-1.713e+051.559e+05	
156	14.53	177.54-87.35	-39.10	129.28	-102.24	5.534e+04-3.649e+05-1.214e+05-1.881e+052.075e+05	
61	2157	8.57	157.12-37.97	-23.67	142.82	50.85-4.173e+04-2.591e+05-7.024e+04-2.306e+057.339e+04	
127	8.22	137.54-30.25	-25.69	132.99	27.26	8930.21-2.209e+05-1.159e+04-2.004e+056.554e+04	
126	8.98	133.55-32.25	-15.66	116.96	-49.75	3.661e+04-2.221e+05-4.655e+04-1.389e+051.208e+05	
156	11.45	148.94-70.03	-31.94	110.85	-83.01	3.969e+04-2.880e+05-9.591e+04-1.524e+051.614e+05	
62	1155	14.84	146.38-80.51	99.99	-34.12	91.51	1.103e+05-3.459e+05-1.314e+05-1.043e+05-2.277e+05
156	11.39	159.23-30.73	149.61	-21.11	-41.64	9667.78-3.275e+05-2.537e+05-6.406e+04-1.394e+05	
126	10.49	138.01-30.97	135.40	-28.36	-20.84	4.958e+04-2.703e+05-2.185e+05 -2221.07-1.179e+05	
125	11.43	132.16-34.22	110.71	-12.78	55.75	8.692e+04-2.662e+05-1.224e+05-5.688e+04-1.735e+05	



62	2155	11.65	124.85-64.65	88.31	-28.11	74.76	8.172e+04-2.732e+05-1.088e+05-8.270e+04-1.770e+05
156	8.90	135.13-26.75	126.48	-18.11	-36.39	2330.77	-2.570e+05-2.029e+05-5.178e+04-1.054e+05
126	8.26	117.54-25.59	115.10	-23.15	-18.53	3.570e+04-2.134e+05-1.752e+05	-2465.43-8.972e+04
125	8.98	112.74-27.79	96.12	-11.16	45.38	6.445e+04-2.102e+05-1.013e+05-4.451e+04-1.344e+05	
63	1154	14.81	111.06-71.04	67.95	-27.93	77.40	1.619e+05-3.145e+05-6.973e+04-8.291e+04-2.381e+05
155	12.09	126.83-16.58	123.48	-13.24	-21.65	7.160e+04-3.168e+05-2.075e+05-3.766e+04-1.746e+05	
125	10.63	108.47-24.61	107.87	-24.00	-8.95	8.788e+04-2.554e+05-1.771e+05	9605.71-1.440e+05
124	11.36	101.68-27.85	80.40	-6.57	48.00	1.234e+05-2.441e+05-6.884e+04-5.186e+04-1.835e+05	
63	2154	11.60	97.47-57.15	63.67	-23.35	63.90	1.212e+05-2.488e+05-6.137e+04-6.627e+04-1.850e+05
155	9.36	110.00-15.67	106.38	-12.05	-21.01	4.951e+04-2.483e+05-1.673e+05-3.146e+04-1.325e+05	
125	8.32	94.70-20.56	93.93	-19.80	-9.38	6.464e+04-2.014e+05-1.434e+05	6632.07-1.098e+05
124	8.88	89.07-22.67	72.80	-6.39	39.42	9.207e+04-1.928e+05-6.011e+04-4.065e+04-1.421e+05	
64	1153	14.45	73.45-59.76	34.48	-20.78	60.60	2.076e+05-2.718e+05 -5949.73-5.832e+04-2.383e+05
154	12.79	93.59 -5.09	93.58	-5.08	-1.28	1.327e+05-2.957e+05-1.530e+05-1.003e+04-2.020e+05	
124	10.75	77.35-18.89	77.26	-18.79	3.01	1.261e+05-2.339e+05-1.287e+05-2.086e+04-1.637e+05	
123	11.15	69.41-21.59	48.09	-0.27	38.54	1.574e+05-2.152e+05-1.312e+04-4.470e+04-1.856e+05	
64	2153	11.28	68.14-48.08	37.92	-17.85	50.98	1.561e+05-2.158e+05-1.231e+04-4.735e+04-1.851e+05
154	9.83	83.70 -6.09	83.38	-5.77	-5.35	9.618e+04-2.318e+05-1.254e+05-1.021e+04-1.535e+05	
124	8.35	70.38-15.79	70.38	-15.79	-0.19	9.355e+04-1.844e+05-1.061e+05-1.529e+04-1.250e+05	
123	8.67	63.77-17.36	47.94	-1.54	32.15	1.178e+05-1.702e+05-1.725e+04-3.514e+04-1.437e+05	
65	1152	13.76	36.36-48.43	0.87	-12.94	41.83	2.451e+05-2.195e+05 5.708e+04-3.156e+04-2.280e+05
153	13.35	66.61 -2.46	61.13	3.02	18.67	1.894e+05-2.645e+05-9.261e+04-1.759e+04-2.202e+05	
123	10.81	48.27-16.42	44.81	-12.96	14.56	1.618e+05-2.061e+05-7.541e+04-3.103e+04-1.761e+05	
122	10.81	38.62-17.72	15.02	5.89	27.80	1.870e+05-1.804e+05 4.224e+04-3.571e+04-1.795e+05	
65	2152	10.70	38.57-38.32	12.07	-11.82	36.54	1.847e+05-1.753e+05 3.617e+04-2.677e+04-1.772e+05
153	10.21	60.09 -1.22	58.42	0.46	10.00	1.395e+05-2.074e+05-7.897e+04-1.103e+04-1.675e+05	
123	8.34	46.72-12.61	45.42	-11.30	8.70	1.205e+05-1.626e+05-6.516e+04-2.311e+04-1.345e+05	
122	8.35	38.61-12.91	22.50	3.20	23.89	1.401e+05-1.430e+05 2.534e+04-2.823e+04-1.390e+05	
66	1151	12.81	7.56 -43.83	-31.58	-4.70	21.90	2.727e+05-1.601e+05 1.164e+05 -3817.05-2.079e+05
152	13.68	57.36-19.25	27.41	10.70	37.38	2.387e+05-2.238e+05-2.915e+04-4.399e+04-2.283e+05	
122	10.77	29.39-24.37	11.77	-6.75	25.24	1.929e+05-1.730e+05-1.974e+04-3.968e+04-1.805e+05	
121	10.37	18.87-24.82	-17.61	11.66	16.22	2.108e+05-1.414e+05 9.467e+04-2.527e+04-1.656e+05	
66	2151	9.92	12.35-30.72	-12.89	-5.48	21.21	2.057e+05-1.293e+05 8.182e+04 -5431.19-1.618e+05
152	10.40	47.09 -8.24	32.48	6.37	24.39	1.771e+05-1.759e+05-3.016e+04-3.135e+04-1.738e+05	
122	8.25	28.23-14.75	20.00	-6.52	16.91	1.441e+05-1.366e+05-2.234e+04-2.976e+04-1.379e+05	
121	7.95	18.35-13.31	-2.59	7.63	14.98	1.581e+05-1.126e+05 6.567e+04-2.020e+04-1.283e+05	
67	1180	11.70	3.66 -61.63	-61.59	3.62	1.61	2.896e+05-9.659e+04 1.693e+05 2.372e+04-1.789e+05
151	13.71	61.09-49.68	-6.28	17.69	54.07	2.780e+05-1.755e+05 3.445e+04 6.804e+04-2.261e+05	
121	10.62	25.54-46.59	-20.65	-0.40	34.61	2.180e+05-1.358e+05 3.574e+04 4.643e+04-1.768e+05	
150	9.87	17.08-48.82	-48.54	16.80	4.27	2.281e+05-1.002e+05 1.417e+05-1.385e+04-1.445e+05	
67	2180	8.99	1.75 -36.82	-35.98	0.92	5.60	2.184e+05-8.015e+04 1.225e+05 1.575e+04-1.394e+05
151	10.38	46.48-28.17	6.57	11.74	37.23	2.071e+05-1.385e+05 1.877e+04 4.984e+04-1.721e+05	
121	8.08	20.89-27.47	-4.93	-1.64	24.13	1.629e+05-1.076e+05 2.034e+04 3.496e+04-1.351e+05	
150	7.50	12.45-27.25	-26.39	11.59	5.79	1.708e+05-8.036e+04 1.019e+05-1.141e+04-1.121e+05	
68	1179	10.56	14.88-91.16	-87.91	11.64	-18.26	2.957e+05-3.247e+04 2.134e+05 4.982e+04-1.422e+05
180	13.43	67.37-82.25	-38.62	23.74	68.00	3.057e+05-1.218e+05 9.523e+04 8.868e+04-2.137e+05	



150	10.36	28.29-73.69	-51.23	5.83	42.26	2.359e+05	-9.650e+04	8.844e+04	5.101e+04	-1.652e+05		
149	9.36	21.69-77.08	-76.49	21.10	-7.61	2.385e+05	-5.911e+04	1.813e+05	-1941.64	-1.172e+05		
68	2179	8.04	8.54	-57.68	-56.23	7.09	-9.68	2.227e+05	-3.040e+04	1.564e+05	3.583e+04	-1.112e+05
180	10.12	50.03-51.95	-18.31	16.39	47.94	2.282e+05	-9.695e+04	6.552e+04	6.572e+04	-1.626e+05		
150	7.82	21.27-46.57	-28.46	3.16	30.01	1.763e+05	-7.693e+04	6.088e+04	3.848e+04	-1.261e+05		
149	7.05	15.07-48.07	-47.89	14.90	-3.35	1.783e+05	-4.823e+04	1.323e+05	-2250.51	-9.112e+04		
69	1148	8.92	27.15-102.98	24.34	-100.16	18.94	2.429e+05	-2.116e+04	9896.77	2.118e+05	8.506e+04	
178	9.59	28.84-119.18	18.97	-109.32	36.92	2.923e+05	2.788e+04	7.332e+04	2.469e+05	9.976e+04		
179	12.85	72.36-112.04	28.61	-68.28	-78.45	3.208e+05	-6.527e+04	1.051e+05	1.505e+05	1.917e+05		
149	10.00	32.28-99.29	11.70	-78.71	-47.79	2.465e+05	-5.729e+04	5.322e+04	1.360e+05	1.462e+05		
69	2148	6.65	19.10-67.80	17.39	-66.10	12.07	1.811e+05	-1.842e+04	6855.74	1.558e+05	6.636e+04	
178	7.21	19.03-78.99	12.73	-72.69	24.04	2.195e+05	1.663e+04	5.390e+04	1.822e+05	7.856e+04		
179	9.63	53.32-74.31	20.14	-41.13	-55.98	2.395e+05	-5.323e+04	7.831e+04	1.080e+05	1.456e+05		
149	7.49	23.69-65.62	7.67	-49.60	-34.26	1.840e+05	-4.629e+04	4.018e+04	9.748e+04	1.115e+05		
70	1147	8.63	32.04-123.99	26.35	-118.30	29.24	2.430e+05	1.015e+04	2.115e+04	2.320e+05	4.940e+04	
177	9.00	42.43-141.89	25.24	-124.70	53.60	2.833e+05	7.826e+04	9.320e+04	2.684e+05	5.330e+04		
178	12.02	74.81-136.60	32.11	-93.90	-84.88	3.233e+05	-9096.92	1.165e+05	1.977e+05	1.611e+05		
148	9.58	35.77-120.66	16.94	-101.84	-50.90	2.503e+05	-2.086e+04	5.300e+04	1.764e+05	1.207e+05		
70	2147	6.37	22.82-83.94	18.94	-80.05	19.99	1.805e+05	6328.01	1.552e+04	1.713e+05	3.893e+04	
177	6.67	29.47-96.45	17.55	-84.53	36.87	2.116e+05	5.632e+04	6.919e+04	1.987e+05	4.282e+04		
178	8.96	54.90-92.91	22.83	-60.84	-60.93	2.412e+05	-9723.42	8.708e+04	1.444e+05	1.221e+05		
148	7.12	26.08-81.76	11.70	-67.39	-36.65	1.863e+05	-1.774e+04	4.001e+04	1.285e+05	9.192e+04		
71	1146	8.52	35.75-138.64	27.02	-129.92	38.02	2.417e+05	3.065e+04	3.132e+04	2.411e+05	1.181e+04	
176	8.94	54.41-157.52	30.12	-133.23	67.51	2.774e+05	1.084e+05	1.085e+05	2.772e+05	4891.43		
177	11.05	74.16-154.34	34.03	-114.21	-86.94	3.145e+05	4.304e+04	1.224e+05	2.352e+05	1.235e+05		
147	9.16	38.09-136.17	21.31	-119.38	-51.41	2.488e+05	9554.31	5.036e+04	2.080e+05	8.999e+04		
71	2146	6.24	25.69-95.22	19.46	-88.98	26.75	1.789e+05	2.269e+04	2.333e+04	1.783e+05	1.001e+04	
176	6.56	38.74-108.52	21.31	-91.09	47.57	2.058e+05	8.075e+04	8.100e+04	2.055e+05	5583.60		
177	8.18	54.22-106.36	24.31	-76.46	-62.51	2.341e+05	3.072e+04	9.165e+04	1.732e+05	9.317e+04		
147	6.76	27.70-93.52	15.06	-80.88	-37.04	1.847e+05	6185.32	3.798e+04	1.529e+05	6.829e+04		
72	1145	8.61	38.07-146.00	26.33	-134.27	44.96	2.423e+05	3.658e+04	3.995e+04	2.390e+05	-2.611e+04	
175	9.42	64.16-165.10	33.44	-134.38	78.10	2.846e+05	1.073e+05	1.187e+05	2.732e+05	-4.341e+04		
176	10.08	70.30-164.18	34.26	-128.14	-84.57	2.982e+05	8.579e+04	1.226e+05	2.614e+05	8.036e+04		
146	8.81	38.95-144.76	24.59	-130.39	-49.33	2.450e+05	3.004e+04	4.538e+04	2.296e+05	5.534e+04		
72	2145	6.30	27.51-100.92	18.92	-92.33	32.08	1.791e+05	2.751e+04	2.997e+04	1.767e+05	-1.915e+04	
175	6.90	46.30-114.41	23.86	-91.97	55.70	2.106e+05	8.063e+04	8.881e+04	2.024e+05	-3.157e+04		
176	7.41	51.12-113.80	24.49	-87.17	-60.68	2.212e+05	6.397e+04	9.179e+04	1.933e+05	6.000e+04		
146	6.46	28.26-100.03	17.58	-89.35	-35.44	1.813e+05	2.237e+04	3.415e+04	1.695e+05	4.164e+04		
73	1144	8.87	38.64-145.49	24.26	-131.11	49.40	2.453e+05	2.690e+04	4.669e+04	2.255e+05	-6.270e+04	
174	10.25	70.83-163.93	34.92	-128.02	84.50	3.013e+05	7.831e+04	1.233e+05	2.563e+05	-8.949e+04		
175	9.29	63.13-165.37	32.69	-134.92	-77.66	2.820e+05	1.102e+05	1.171e+05	2.752e+05	3.362e+04		
145	8.58	38.09-145.64	26.58	-134.14	-44.51	2.419e+05	3.668e+04	3.832e+04	2.403e+05	1.826e+04		
73	2144	6.51	28.02-100.59	17.33	-89.90	35.50	1.816e+05	1.988e+04	3.515e+04	1.663e+05	-4.730e+04	
174	7.55	51.52-113.61	25.00	-87.08	60.64	2.236e+05	5.814e+04	9.234e+04	1.894e+05	-6.702e+04		
175	6.81	45.51-114.62	23.28	-92.39	-55.37	2.087e+05	8.278e+04	8.755e+04	2.039e+05	2.404e+04		
145	6.28	27.53-100.64	19.12	-92.23	-31.74	1.788e+05	2.757e+04	2.872e+04	1.777e+05	1.311e+04		



74	1143	9.24	37.72-137.37	20.96	-120.60	51.51	2.487e+05	4108.38	5.122e+04	2.016e+05	-9.645e+04
173	11.24	74.51-154.29	34.65	-114.42	86.78	3.164e+05	3.312e+04	1.220e+05	2.275e+05	-1.315e+05	
174	8.91	53.36-158.07	29.47	-134.18	-66.94	2.775e+05	1.047e+05	1.060e+05	2.762e+05	-1.469e+04	
144	8.53	35.76-138.89	27.25	-130.38	-37.60	2.417e+05	2.762e+04	2.943e+04	2.399e+05	-1.963e+04	
74	2143	6.83	27.41-94.44	14.79	-81.82	37.12	1.847e+05	1885.60	3.864e+04	1.479e+05	-7.326e+04
173	8.34	54.48-106.31	24.79	-76.62	62.39	2.356e+05	2.301e+04	9.137e+04	1.672e+05	-9.930e+04	
174	6.55	37.92-108.93	20.81	-91.82	-47.12	2.061e+05	7.769e+04	7.904e+04	2.048e+05	-1.312e+04	
144	6.26	25.69-95.41	19.63	-89.34	-26.42	1.790e+05	2.025e+04	2.188e+04	1.773e+05	-1.603e+04	
75	1142	9.66	35.28-121.94	16.55	-103.21	50.93	2.490e+05	-2.767e+04	5.339e+04	1.679e+05	-1.259e+05
172	12.19	74.89-136.52	32.58	-94.21	84.58	3.228e+05	-1.998e+04	1.151e+05	1.878e+05	-1.675e+05	
173	9.06	41.19-142.46	24.64	-125.91	-52.60	2.844e+05	6.979e+04	8.992e+04	2.643e+05	-6.258e+04	
143	8.67	31.91-124.72	26.50	-119.31	-28.59	2.425e+05	4702.59	1.913e+04	2.280e+05	-5.676e+04	
75	2142	7.19	25.69-82.73	11.40	-68.44	36.68	1.854e+05	-2.309e+04	4.031e+04	1.220e+05	-9.592e+04
172	9.10	54.95-92.82	23.20	-61.07	60.69	2.409e+05	-1.817e+04	8.601e+04	1.367e+05	-1.270e+05	
173	6.73	28.52-96.88	17.09	-85.45	-36.09	2.127e+05	4.958e+04	6.667e+04	1.956e+05	-4.996e+04	
143	6.41	22.73-84.50	19.06	-80.83	-19.49	1.802e+05	1995.61	1.395e+04	1.683e+05	-4.459e+04	
76	1141	10.06	31.69-100.24	11.24	-79.78	47.75	2.437e+05	-6.461e+04	5.310e+04	1.260e+05	-1.498e+05
171	12.96	72.19-111.67	28.86	-68.34	78.03	3.176e+05	-7.611e+04	1.027e+05	1.389e+05	-1.960e+05	
172	9.72	27.53-119.59	18.44	-110.50	-35.42	2.923e+05	1.717e+04	6.951e+04	2.399e+05	-1.080e+05	
142	8.99	26.94-103.94	24.40	-101.41	-18.03	2.413e+05	-2.804e+04	7844.65	2.054e+05	-9.154e+04	
76	2141	7.54	23.22-66.33	7.31	-50.42	34.23	1.819e+05	-5.203e+04	4.009e+04	8.979e+04	-1.143e+05
171	9.73	53.17-74.00	20.34	-41.17	55.65	2.372e+05	-6.162e+04	7.648e+04	9.908e+04	-1.490e+05	
172	7.32	18.03-79.32	12.32	-73.61	-22.87	2.196e+05	8233.74	5.097e+04	1.768e+05	-8.489e+04	
142	6.71	18.94-68.56	17.44	-67.05	-11.37	1.800e+05	-2.386e+04	5276.91	1.509e+05	-7.135e+04	
77	1141	9.42	21.46-77.95	-77.54	21.05	6.38	2.356e+05	-6.655e+04	1.730e+05	-3935.61	1.225e+05
140	10.39	27.68-73.86	-51.44	5.26	-42.12	2.317e+05	-1.036e+05	7.772e+04	5.036e+04	1.671e+05	
170	13.48	66.95-81.31	-38.00	23.63	-67.42	3.000e+05	-1.317e+05	8.288e+04	8.540e+04	2.159e+05	
171	10.71	13.72-91.26	-88.71	11.17	16.15	2.937e+05	-4.383e+04	2.042e+05	4.564e+04	1.490e+05	
77	2141	7.11	14.95-48.78	-48.69	14.86	2.40	1.762e+05	-5.408e+04	1.259e+05	-3785.04	9.515e+04
140	7.85	20.80-46.70	-28.62	2.71	-29.90	1.731e+05	-8.251e+04	5.263e+04	3.798e+04	1.276e+05	
170	10.17	49.71-51.23	-17.83	16.32	-47.49	2.239e+05	-1.047e+05	5.602e+04	6.319e+04	1.642e+05	
171	8.17	7.73 -57.85	-56.84	6.73	8.05	2.212e+05	-3.925e+04	1.493e+05	3.261e+04	1.164e+05	
78	1140	9.92	17.12-49.35	-48.83	16.60	-5.85	2.238e+05	-1.074e+05	1.321e+05	-1.568e+04	1.482e+05
139	10.62	25.21-45.81	-19.50	-1.11	-34.30	2.125e+05	-1.422e+05	2.500e+04	4.530e+04	1.770e+05	
169	13.69	60.65-48.07	-4.58	17.16	-53.26	2.702e+05	-1.840e+05	2.219e+04	6.403e+04	2.261e+05	
170	11.83	3.46 -61.84	-61.55	3.17	-4.34	2.854e+05	-1.075e+05	1.585e+05	1.938e+04	1.837e+05	
78	2140	7.55	12.69-27.86	-26.61	11.44	-7.00	1.677e+05	-8.605e+04	9.443e+04	-1.282e+04	1.150e+05
139	8.08	20.78-27.02	-4.05	-2.18	-23.88	1.588e+05	-1.126e+05	1.208e+04	3.409e+04	1.353e+05	
169	10.37	46.25-27.04	7.88	11.33	-36.60	2.012e+05	-1.451e+05	9332.71	4.675e+04	1.721e+05	
170	9.11	2.13 -37.51	-35.95	0.57	-7.71	2.152e+05	-8.865e+04	1.142e+05	1.241e+04	1.432e+05	
79	1139	10.40	20.18-25.55	-16.64	11.26	-18.12	2.054e+05	-1.480e+05	8.439e+04	-2.689e+04	1.677e+05
138	10.74	30.50-23.53	14.57	-7.59	-24.64	1.865e+05	-1.782e+05	-2.982e+04	3.815e+04	1.792e+05	
168	13.59	57.68-17.59	30.38	9.70	-36.19	2.293e+05	-2.304e+05	-4.057e+04	3.947e+04	2.263e+05	
169	12.91	10.35-45.87	-30.29	-5.22	-25.16	2.666e+05	-1.699e+05	1.048e+05	-8149.47	2.108e+05	
79	2139	7.99	19.81-14.33	-1.85	7.33	-16.44	1.540e+05	-1.177e+05	5.776e+04	-2.144e+04	1.299e+05
138	8.23	29.53-14.54	22.16	-7.17	-16.45	1.393e+05	-1.408e+05	-3.009e+04	2.859e+04	1.369e+05	



168	10.34	47.81	-7.44	34.77	5.60	-23.46	1.699e+05	-1.810e+05	-3.894e+04	2.787e+04	1.722e+05	
169	10.00	15.02	-32.81	-11.91	-5.88	-23.72	2.010e+05	-1.369e+05	7.288e+04	-8765.96	1.640e+05	
80	1138	10.82	41.92	-19.08	17.58	5.26	-29.87	1.808e+05	-1.858e+05	3.204e+04	-3.707e+04	1.800e+05
137	10.75	52.03	-16.69	49.23	-13.89	-13.59	1.549e+05	-2.101e+05	-8.436e+04	2.919e+04	1.734e+05	
167	13.21	69.56	-2.60	65.32	1.64	-16.96	1.790e+05	-2.689e+05	-1.027e+05	1.279e+04	2.164e+05	
168	13.82	41.21	-51.17	3.65	-13.61	-45.38	2.374e+05	-2.277e+05	4.547e+04	-3.574e+04	2.290e+05	
80	2138	8.37	41.30	-14.11	24.47	2.71	-25.48	1.355e+05	-1.473e+05	1.749e+04	-2.928e+04	1.394e+05
137	8.30	49.84	-13.04	48.82	-12.02	-7.95	1.153e+05	-1.657e+05	-7.204e+04	2.170e+04	1.325e+05	
167	10.10	62.83	-1.79	61.65	-0.60	-8.67	1.316e+05	-2.109e+05	-8.672e+04	7342.21	1.647e+05	
168	10.75	42.39	-40.52	14.21	-12.33	-39.28	1.789e+05	-1.816e+05	2.724e+04	-2.999e+04	1.780e+05	
81	1137	11.13	74.17	-23.04	52.26	-1.13	-40.61	1.508e+05	-2.192e+05	-2.271e+04	-4.578e+04	1.846e+05
136	10.68	82.96	-19.77	82.94	-19.75	-1.62	1.191e+05	-2.365e+05	-1.362e+05	1.883e+04	1.600e+05	
166	12.61	98.80	-6.84	98.68	-6.72	3.57	1.220e+05	-2.982e+05	-1.614e+05	-1.485e+04	1.969e+05	
167	14.45	79.43	-62.34	38.73	-21.63	-64.14	1.989e+05	-2.780e+05	-1.692e+04	-6.219e+04	2.374e+05	
81	2137	8.67	67.49	-18.54	51.15	-2.20	-33.74	1.128e+05	-1.734e+05	-2.462e+04	-3.598e+04	1.430e+05
136	8.31	74.77	-16.54	74.75	-16.52	1.26	8.826e+04	-1.865e+05	-1.119e+05	1.373e+04	1.222e+05	
166	9.71	87.84	-7.57	87.30	-7.03	7.12	8.794e+04	-2.338e+05	-1.319e+05	-1.392e+04	1.496e+05	
167	11.29	72.79	-50.10	41.19	-18.50	-53.71	1.495e+05	-2.206e+05	-2.075e+04	-5.034e+04	1.844e+05	
82	1136	11.32	107.47	-29.23	85.86	-7.63	-49.86	1.167e+05	-2.468e+05	-7.747e+04	-5.264e+04	1.813e+05
135	10.56	115.01	-25.71	114.19	-24.89	10.71	8.113e+04	-2.568e+05	-1.832e+05	7510.44	1.395e+05	
165	11.92	133.02	-19.03	128.97	-14.98	24.48	6.101e+04	-3.175e+05	-2.142e+05	-4.224e+04	1.686e+05	
166	14.77	117.70	-73.23	73.39	-28.91	-80.60	1.528e+05	-3.188e+05	-7.967e+04	-8.635e+04	2.357e+05	
82	2136	8.86	93.57	-23.77	77.00	-7.20	-40.86	8.700e+04	-1.950e+05	-6.675e+04	-4.125e+04	1.404e+05
135	8.27	99.75	-21.44	98.79	-20.48	10.74	5.952e+04	-2.026e+05	-1.481e+05	5019.57	1.064e+05	
165	9.24	114.80	-17.59	110.60	-13.39	23.20	4.141e+04	-2.489e+05	-1.725e+05	-3.499e+04	1.278e+05	
166	11.57	102.61	-58.87	67.85	-24.10	-66.37	1.142e+05	-2.521e+05	-6.902e+04	-6.892e+04	1.832e+05	
83	1135	11.38	138.39	-35.44	116.89	-13.94	-57.23	8.046e+04	-2.677e+05	-1.299e+05	-5.734e+04	1.702e+05
134	10.43	144.64	-32.11	141.63	-29.09	22.87	4.342e+04	-2.708e+05	-2.231e+05	-4278.16	1.128e+05	
164	11.25	165.55	-33.48	154.87	-22.80	44.84	-167.43	-3.268e+05	-2.588e+05	-6.821e+04	1.326e+05	
165	14.75	153.09	-82.15	106.09	-35.14	-94.07	1.010e+05	-3.482e+05	-1.401e+05	-1.071e+05	2.240e+05	
83	2135	8.95	117.56	-28.75	100.86	-12.06	-46.52	5.955e+04	-2.115e+05	-1.071e+05	-4.487e+04	1.319e+05
134	8.23	122.66	-26.47	119.90	-23.71	20.10	3.104e+04	-2.139e+05	-1.788e+05	-4048.52	8.580e+04	
164	8.80	140.00	-28.88	130.53	-19.41	38.86	-5157.53	-2.566e+05	-2.068e+05	-5.496e+04	1.002e+05	
165	11.59	130.04	-65.94	93.00	-28.90	-76.73	7.463e+04	-2.750e+05	-1.155e+05	-8.492e+04	1.742e+05	
84	1164	14.41	183.69	-88.33	-40.03	135.39	103.95	4.635e+04	-3.655e+05	-1.237e+05	-1.954e+05	2.028e+05
134	11.31	165.03	-40.86	-19.79	143.97	62.40	4.423e+04	-2.815e+05	-5.969e+04	-1.776e+05	-1.518e+05	
133	10.33	169.89	-38.01	-32.19	164.06	-34.31	8877.40	-2.792e+05	-1.603e+04	-2.543e+05	-8.097e+04	
163	10.77	193.46	-48.05	-29.85	175.26	-63.75	-5.682e+04	-3.279e+05	-9.162e+04	-2.931e+05	-9.067e+04	
84	2164	11.36	153.71	-70.82	-32.66	115.54	84.33	3.281e+04	-2.885e+05	-9.765e+04	-1.580e+05	1.578e+05
134	8.94	138.18	-33.04	-16.56	121.69	50.50	3.212e+04	-2.226e+05	-4.667e+04	-1.438e+05	-1.177e+05	
133	8.20	142.12	-31.06	-26.09	137.15	-28.90	5023.12	-2.209e+05	-1.309e+04	-2.028e+05	-6.135e+04	
163	8.51	161.52	-40.13	-24.82	146.21	-53.41	-4.805e+04	-2.581e+05	-7.297e+04	-2.332e+05	-6.793e+04	
85	1163	13.80	208.02	-91.37	-43.39	160.04	109.83	-8206.70	-3.704e+05	-1.352e+05	-2.433e+05	1.728e+05
133	11.15	186.05	-45.04	-24.94	165.94	65.13	1.067e+04	-2.888e+05	-5.955e+04	-2.186e+05	-1.269e+05	
132	10.30	189.41	-42.90	-34.02	180.53	-44.54	-1.915e+04	-2.835e+05	-2.722e+04	-2.754e+05	-4.549e+04	
162	10.62	215.03	-61.55	-35.78	189.26	-80.39	-1.022e+05	-3.250e+05	-1.114e+05	-3.157e+05	-4.446e+04	





85	2163	10.92	172.51-73.25	-35.24	134.51	88.85	-8893.51-2.926e+05-1.065e+05-1.949e+05-1.348e+05
133	8.85	154.42-36.33	-20.51	138.60	52.60	6758.19-2.286e+05-4.657e+04-1.753e+05-9.853e+04	
132	8.21	157.14-34.82	-27.50	149.82	-36.77-1.599e+04-2.247e+05-2.170e+04-2.190e+05-3.406e+04		
162	8.46	178.11-50.52	-29.39	156.99	-66.21-8.199e+04-2.568e+05-8.821e+04-2.506e+05-3.238e+04		
86	1162	13.01	224.97-91.06	-45.03	178.94	111.47-5.885e+04-3.642e+05-1.413e+05-2.818e+05-1.355e+05	
132	10.93	200.46-47.74	-29.15	181.86	65.35-1.715e+04-2.908e+05-5.694e+04-2.510e+05-9.647e+04		
131	10.36	202.30-46.47	-34.55	190.38	-53.13-3.711e+04-2.857e+05-3.736e+04-2.855e+05 -7835.76		
161	10.87	229.14-73.26	-40.47	196.35	-94.02-1.267e+05-3.257e+05-1.268e+05-3.256e+05 3999.47		
86	2162	10.33	185.61-73.07	-36.50	149.05	90.12-4.755e+04-2.881e+05-1.112e+05-2.245e+05-1.061e+05	
132	8.71	165.55-38.46	-23.75	150.84	52.77-1.421e+04-2.306e+05-4.456e+04-2.003e+05-7.514e+04		
131	8.28	167.05-37.56	-27.91	157.40	-43.37-2.937e+04-2.269e+05-2.950e+04-2.268e+05 -5094.31		
161	8.69	188.94-59.50	-33.00	162.44	-76.69-9.985e+04-2.584e+05-1.000e+05-2.582e+05 4899.61		
87	1161	12.14	233.79-87.34	-44.95	191.40	108.70-1.005e+05-3.500e+05-1.415e+05-3.090e+05-9.243e+04	
131	10.69	207.61-48.78	-32.23	191.06	63.00-3.587e+04-2.897e+05-5.198e+04-2.736e+05-6.189e+04		
130	10.51	207.88-48.41	-33.68	193.15	-59.66-4.225e+04-2.880e+05-4.605e+04-2.842e+05-5.030e+04		
160	11.46	234.94-82.26	-43.42	196.10	-103.98-1.232e+05-3.363e+05-1.371e+05-3.224e+05-5.252e+04		
87	2161	9.68	192.45-70.26	-36.44	158.63	87.98-7.935e+04-2.775e+05-1.114e+05-2.455e+05-7.292e+04	
131	8.54	171.09-39.29	-26.12	157.92	50.97-2.830e+04-2.301e+05-4.074e+04-2.176e+05-4.854e+04		
130	8.41	171.32-39.03	-27.24	159.52	-48.39-3.313e+04-2.288e+05-3.618e+04-2.257e+05-2.424e+04		
160	9.16	193.36-66.38	-35.26	162.24	-84.35-9.673e+04-2.670e+05-1.079e+05-2.558e+05-4.222e+04		
88	1160	11.36	234.33-80.67	-43.19	196.86	101.99-1.254e+05-3.342e+05-1.359e+05-3.237e+05-4.557e+04	
130	10.48	207.31-48.16	-34.11	193.25	58.26-4.232e+04-2.875e+05-4.483e+04-2.850e+05-2.470e+04		
129	10.73	206.09-48.75	-31.58	188.92	-63.89-3.372e+04-2.902e+05-5.282e+04-2.711e+05-5.734e+04		
159	12.27	232.51-88.63	-44.92	188.79	-110.12-9.504e+04-3.526e+05-1.417e+05-3.060e+05-9.919e+04		
88	2160	9.08	192.91-65.17	-35.09	162.83	82.82-9.844e+04-2.653e+05-1.070e+05-2.567e+05-3.688e+04	
130	8.38	170.89-38.85	-27.57	159.61	47.31-3.319e+04-2.285e+05-3.524e+04-2.264e+05-1.993e+04		
129	8.57	169.91-39.27	-25.62	156.27	-51.65-2.668e+04-2.304e+05-4.139e+04-2.157e+05-5.273e+04		
159	9.78	191.44-71.24	-36.42	156.62	-89.08-7.514e+04-2.794e+05-1.115e+05-2.431e+05-7.813e+04		
89	1159	10.82	226.32-70.87	-39.56	195.01	91.24-1.248e+05-3.256e+05-1.248e+05-3.255e+05 3262.31	
129	10.35	199.52-45.83	-34.59	188.28	51.30-3.516e+04-2.859e+05-3.589e+04-2.852e+05-1.356e+04		
128	10.97	196.95-47.34	-28.23	177.84	-65.60-1.338e+04-2.914e+05-5.747e+04-2.474e+05-1.016e+05		
158	13.15	221.64-91.52	-44.63	174.75	-111.73-5.162e+04-3.663e+05-1.406e+05-2.773e+05-1.417e+05		
89	2159	8.64	186.77-57.66	-32.29	161.40	74.55-9.853e+04-2.581e+05-9.853e+04-2.581e+05 689.14	
129	8.27	164.91-37.07	-27.94	155.78	41.96-2.791e+04-2.270e+05-2.837e+04-2.265e+05 9500.92		
128	8.74	162.84-38.14	-23.05	147.75	-52.96-1.137e+04-2.310e+05-4.496e+04-1.974e+05-7.906e+04		
158	10.44	183.03-73.41	-36.20	145.82	-90.31-4.204e+04-2.897e+05-1.106e+05-2.211e+05-1.108e+05		
90	1158	10.64	210.55-58.93	-34.62	186.24	77.20-9.633e+04-3.263e+05-1.086e+05-3.140e+05-5.172e+04	
128	10.31	184.83-42.05	-33.79	176.58	42.49-1.536e+04-2.838e+05-2.548e+04-2.737e+05-5.113e+04		
127	11.20	181.01-44.33	-23.85	160.53	-64.77 1.571e+04-2.890e+05-5.973e+04-2.136e+05-1.315e+05		
157	13.94	203.02-91.09	-42.64	154.57	-109.09 141.57-3.713e+05-1.337e+05-2.375e+05-1.783e+05		
90	2158	8.46	174.66-48.50	-28.50	154.66	63.75-7.765e+04-2.577e+05-8.605e+04-2.493e+05-3.796e+04	
128	8.22	153.62-34.17	-27.33	146.78	35.19-1.315e+04-2.249e+05-2.036e+04-2.177e+05-3.840e+04		
127	8.89	150.52-35.76	-19.68	134.43	-52.32 1.057e+04-2.287e+05-4.670e+04-1.715e+05-1.021e+05		
157	11.02	168.63-73.00	-34.67	130.30	-88.28 -2511.99-2.932e+05-1.054e+05-1.904e+05-1.390e+05		
91	1186	19.05	179.55-194.64	54.91	-70.00	176.37 1.923e+05-4.492e+05-1.179e+05-1.389e+05-3.206e+05	
187	10.79	193.77-65.73	119.41	8.63	-117.33-1.530e+05-4.090e+05-3.707e+05-1.913e+05-9.131e+04		



156	10.82	84.85-51.24	75.35	-41.74	-34.68	1.523e+04-3.493e+05-2.818e+05-5.233e+04-1.416e+05
155	13.84	149.24-52.13	105.83	-8.72	82.81	1.001e+05-3.675e+05-1.610e+05-1.063e+05-2.322e+05
91	2186	15.14	153.40-156.69	52.71	-56.00	145.21 1.471e+05-3.589e+05-1.001e+05-1.118e+05-2.529e+05
187	8.47	164.55-57.74	102.33	4.48	-99.80	-1.276e+05-3.190e+05-2.945e+05-1.521e+05-6.395e+04
156	8.49	76.65-42.20	68.29	-33.83	-30.40	6936.52-2.750e+05-2.256e+05-4.245e+04-1.072e+05
155	10.88	125.63-42.34	91.73	-8.44	67.42	7.365e+04-2.904e+05-1.328e+05-8.400e+04-1.804e+05
92	1188	11.33	231.19-106.08	-4.74	129.85	154.62-2.227e+05-4.135e+05-2.276e+05-4.086e+05-053.023e+04
157	10.51	111.92-61.68	-44.60	94.84	51.70	-4.168e+04-3.596e+05-7.640e+04-3.249e+05-059.915e+04
156	13.69	166.20-63.26	-16.97	119.92	-92.07	4.498e+04-3.909e+05-1.213e+05-2.246e+05-052.117e+05
187	19.48	219.73-213.97	-70.10	75.86	-204.20	1.212e+05-5.035e+05-1.838e+05-1.985e+05-053.122e+05
92	2188	9.04	193.28-88.72	-5.80	110.36	128.48-1.780e+05-3.256e+05-1.800e+05-3.236e+05-051.696e+04
157	8.31	97.45-50.21	-36.04	83.28	43.49	-3.606e+04-2.837e+05-6.097e+04-2.588e+05-057.449e+04
156	10.80	138.76-50.98	-14.78	102.57	-74.55	3.160e+04-3.088e+05-9.550e+04-1.817e+05-051.646e+05
187	15.49	184.32-171.57	-56.08	68.83	-166.62	9.243e+04-4.008e+05-1.463e+05-1.620e+05-052.465e+05
93	1189	12.56	260.80-142.88	-18.18	136.10	186.52-2.487e+05-4.357e+05-2.547e+05-4.297e+05-3.295e+04
158	10.47	136.32-70.43	-45.78	111.67	66.99	-8.732e+04-3.650e+05-9.749e+04-3.548e+05-055.215e+04
157	13.29	177.61-72.02	-24.74	130.33	-97.81	-8676.69-4.020e+05-1.313e+05-2.793e+05-051.822e+05
188	19.36	252.43-224.91	-67.51	95.02	-224.41	4.571e+04-5.385e+05-2.215e+05-2.713e+05-052.910e+05
93	2189	10.09	216.03-116.99	-16.14	115.17	153.02-1.939e+05-3.467e+05-2.008e+05-3.399e+05-3.165e+04
158	8.34	116.17-56.89	-36.94	96.23	55.25	-7.025e+04-2.888e+05-7.719e+04-2.818e+05-053.833e+04
157	10.52	147.61-57.78	-20.76	110.58	-78.96	-9290.29-3.177e+05-1.032e+05-2.238e+05-051.419e+05
188	15.41	209.48-180.00	-54.09	83.57	-182.16	3.450e+04-4.278e+05-1.753e+05-2.181e+05-052.302e+05
94	1190	14.19	281.43-174.44	-30.94	137.93	211.72-2.272e+05-4.774e+05-2.714e+05-4.332e+05-9.545e+04
159	10.73	156.64-76.77	-45.12	124.99	79.92	-1.147e+05-3.703e+05-1.147e+05-3.703e+05 2737.55
158	12.70	182.96-78.03	-31.70	136.63	-99.73	-5.696e+04-4.019e+05-1.360e+05-3.229e+05-051.449e+05
189	18.72	276.16-227.08	-62.41	111.49	-236.12	-3.044e+04-5.530e+05-2.501e+05-3.334e+05-052.580e+05
94	2190	11.40	231.88-141.25	-25.94	116.58	172.42-1.756e+05-3.806e+05-2.137e+05-3.426e+05-7.972e+04
159	8.57	131.74-61.71	-36.43	106.46	65.20	-9.043e+04-2.937e+05-9.043e+04-2.937e+05 322.09
158	10.09	151.79-62.48	-26.11	115.43	-80.43	-4.604e+04-3.180e+05-1.068e+05-2.573e+05-051.133e+05
189	14.93	227.75-181.69	-50.17	96.23	-191.18	-2.397e+04-4.391e+05-1.973e+05-2.658e+05-052.047e+05
95	1191	15.89	291.87-199.71	-43.20	135.36	229.01-1.776e+05-5.180e+05-2.767e+05-4.189e+05-1.547e+05
160	11.24	171.97-80.55	-42.88	134.30	89.97	-1.184e+05-3.795e+05-1.271e+05-3.707e+05-4.703e+04
159	12.02	182.00-81.13	-37.51	138.39	-97.85	-9.500e+04-3.934e+05-1.350e+05-3.533e+05-051.017e+05
190	17.60	289.84-220.32	-54.69	124.21	-238.88	-1.033e+05-5.473e+05-2.687e+05-3.819e+05-052.147e+05
95	2191	12.74	239.90-160.68	-35.39	114.62	185.72-1.371e+05-4.123e+05-2.177e+05-3.316e+05-1.253e+05
160	8.98	143.48-64.56	-34.71	113.63	72.93	-9.284e+04-3.012e+05-1.000e+05-2.941e+05-3.796e+04
159	9.58	151.12-64.92	-30.58	116.78	-78.99	-7.495e+04-3.118e+05-1.061e+05-2.807e+05-058.001e+04
190	14.07	238.29-176.51	-44.23	106.01	-193.32	-7.992e+04-4.348e+05-2.116e+05-3.031e+05-051.714e+05
96	1192	17.40	290.88-216.36	-53.21	127.73	236.94-1.140e+05-5.449e+05-2.710e+05-3.879e+05-2.074e+05
161	11.90	181.17-81.10	-38.81	138.87	96.46	-9.953e+04-3.914e+05-1.345e+05-3.564e+05-9.476e+04
160	11.33	174.47-80.92	-41.85	135.40	-91.94	-1.170e+05-3.813e+05-1.286e+05-3.697e+05-055.417e+04
191	16.10	292.19-203.92	-44.82	133.09	-231.56	-1.692e+05-5.224e+05-2.764e+05-4.151e+05-051.624e+05
96	2192	13.91	239.10-173.45	-43.08	108.74	191.80-8.816e+04-4.330e+05-2.134e+05-3.077e+05-1.658e+05
161	9.49	150.49-64.93	-31.58	117.15	77.92	-7.840e+04-3.103e+05-1.057e+05-2.830e+05-7.468e+04
160	9.06	145.39-64.82	-33.92	114.48	-74.44	-9.178e+04-3.027e+05-1.011e+05-2.933e+05-054.345e+04
191	12.91	240.10-163.89	-36.63	112.84	-187.66	-1.306e+05-4.156e+05-2.175e+05-3.287e+05-051.312e+05



97	1193	18.58	279.83-225.45	-61.26	115.64	236.65-4.158e+04-5.536e+05-2.541e+05-3.410e+05-2.523e+05
162	12.59	184.10-78.77	-33.31	138.64	99.41-6.346e+04-4.003e+05-1.362e+05-3.275e+05-1.386e+05	
161	10.78	161.06-77.88	-44.73	127.91	-82.60-1.168e+05-3.710e+05-1.169e+05-3.709e+05 4708.32	
192	14.42	284.44-180.46	-33.81	137.80	-216.04-2.206e+05-4.830e+05-2.724e+05-4.312e+051.044e+05	
97	2193	14.82	230.59-180.43	-49.27	99.43	191.60-3.253e+04-4.396e+05-2.004e+05-2.717e+05-2.004e+05
162	10.00	152.69-63.07	-27.35	116.97	80.20-5.098e+04-3.168e+05-1.070e+05-2.608e+05-1.084e+05	
161	8.62	135.14-62.55	-36.13	108.72	-67.26-9.196e+04-2.943e+05-9.210e+04-2.942e+05 5408.25	
192	11.59	234.18-145.89	-28.18	116.47	-175.73-1.705e+05-3.850e+05-2.144e+05-3.411e+058.663e+04	
98	1194	19.30	258.34-225.40	-67.07	100.02	226.98 3.418e+04-5.417e+05-2.268e+05-2.807e+05-2.867e+05
163	13.18	180.28-73.38	-26.58	133.49	98.39-1.658e+04-4.015e+05-1.324e+05-2.857e+05-1.765e+05	
162	10.47	142.02-71.80	-45.70	115.92	-70.00-9.291e+04-3.647e+05-1.005e+05-3.572e+05-4.473e+04	
193	12.76	265.99-149.64	-20.99	137.34	-192.15-2.477e+05-4.398e+05-2.577e+05-4.298e+054.257e+04	
98	2194	15.37	214.05-180.39	-53.75	87.41	184.16 2.565e+04-4.303e+05-1.794e+05-2.253e+05-2.268e+05
163	10.44	149.69-58.86	-22.18	113.01	79.41-1.531e+04-3.174e+05-1.040e+05-2.286e+05-1.376e+05	
162	8.35	120.55-57.93	-36.88	99.49	-57.57-7.441e+04-2.887e+05-7.950e+04-2.836e+05-3.262e+04	
193	10.26	220.02-122.21	-18.31	116.12	-157.36-1.928e+05-3.503e+05-2.031e+05-3.400e+053.905e+04	
99	1195	19.48	227.39-216.27	-70.04	81.16	208.55 1.095e+05-5.094e+05-1.904e+05-2.095e+05-3.093e+05
164	13.60	169.91-65.24	-18.87	123.54	93.56 3.617e+04-3.919e+05-1.231e+05-2.326e+05-2.069e+05	
163	10.46	118.46-63.31	-44.95	100.10	-54.77-4.981e+04-3.593e+05-8.005e+04-3.291e+05-9.190e+04	
194	11.43	237.53-113.28	-7.75	132.00	-160.89-2.300e+05-4.132e+05-2.323e+05-4.109e+05-2.027e+04	
99	2195	15.49	190.24-173.36	-56.03	72.91	169.98 8.348e+04-4.054e+05-1.514e+05-1.705e+05-2.442e+05
164	10.73	141.64-52.53	-16.24	105.35	75.70 2.488e+04-3.096e+05-9.691e+04-1.878e+05-1.610e+05	
163	8.28	102.48-51.45	-36.30	87.33	-45.85-4.218e+04-2.836e+05-6.378e+04-2.620e+05-6.891e+04	
194	9.14	198.17-94.28	-8.12	112.01	-133.32-1.830e+05-3.261e+05-1.836e+05-3.255e+05 -9278.14	
100	1165	13.78	153.45-54.71	109.27	-10.54	-85.11 9.078e+04-3.703e+05-1.707e+05-1.088e+052.285e+05
164	10.72	91.58-52.95	81.03	-42.41	37.59	5441.15-3.498e+05-2.879e+05-5.650e+041.348e+05
195	10.76	200.57-72.95	122.02	5.59	123.75-1.660e+05-4.070e+05-3.754e+05-1.976e+058.137e+04	
196	19.12	188.30-198.59	59.90	-70.19	-182.18 1.808e+05-4.577e+05-1.305e+05-1.464e+053.192e+05	
100	2165	10.84	128.89-44.35	94.38	-9.83	-69.20 6.653e+04-2.926e+05-1.402e+05-8.591e+041.775e+05
164	8.42	81.83-43.52	72.66	-34.35	32.64	-489.15-2.755e+05-2.303e+05-4.566e+041.019e+05
195	8.48	169.79-63.31	104.34	2.14	104.75-1.372e+05-3.178e+05-2.981e+05-1.569e+055.628e+04	
196	15.19	160.16-159.75	56.55	-56.15	-149.70 1.382e+05-3.655e+05-1.098e+05-1.176e+052.518e+05	
101	1166	13.68	131.63-42.27	91.29	-1.94	-73.40 1.440e+05-3.367e+05-1.026e+05-9.017e+042.402e+05
165	11.17	63.15-41.84	59.51	-38.20	19.20 6.659e+04-3.328e+05-2.353e+05-3.086e+041.715e+05	
196	11.20	156.84-30.56	107.86	18.43	82.34-7.783e+04-4.021e+05-3.248e+05-1.551e+051.381e+05	
197	18.22	142.75-173.12	37.10	-67.47	-149.03 2.448e+05-3.889e+05-4.717e+04-9.687e+043.159e+05	
101	2166	10.72	111.99-34.66	80.55	-3.21	-60.18 1.071e+05-2.664e+05-8.778e+04-7.156e+041.866e+05
165	8.69	59.86-34.87	56.10	-31.11	18.50 4.590e+04-2.618e+05-1.899e+05-2.594e+041.302e+05	
196	8.59	136.23-30.77	93.44	12.02	72.91-7.111e+04-3.123e+05-2.592e+05-1.242e+059.993e+04	
197	14.48	125.11-140.15	39.02	-54.06	-124.20 1.873e+05-3.124e+05-4.564e+04-7.944e+042.493e+05	
102	1167	13.31	105.49-28.53	70.41	6.56	-58.91 1.929e+05-2.921e+05-3.121e+04-6.795e+042.418e+05
166	11.70	36.46-32.52	36.46	-32.52	0.42 1.287e+05-3.068e+05-1.738e+05 -4258.55 2.006e+05	
197	11.91	108.9311.39	90.09	30.23	38.50 1.939e+04-3.873e+05-2.614e+05-1.065e+051.880e+05	
198	16.87	92.71-140.97	13.78	-62.04	-110.52 2.988e+05-3.058e+05 3.689e+04-4.390e+04 2.996e+05	
102	2167	10.39	91.70-23.90	64.48	3.32	-49.05 1.444e+05-2.318e+05-3.291e+04-5.447e+041.878e+05
166	9.03	38.62-26.99	38.37	-26.74	4.05 9.316e+04-2.412e+05-1.426e+05 -5476.40 1.525e+05	



197	9.08	99.39	1.48	79.78	21.09	39.18	2849.36-3.001e+05-2.104e+05-8.686e+041.383e+05
198	13.40	86.62-115.42		21.07	-49.87	-94.58	2.287e+05-2.484e+05 1.903e+04-3.869e+04 2.368e+05
103	1168	12.68	76.44-14.33	47.53	14.59	-42.29	2.352e+05-2.382e+05 4.025e+04-4.318e+04 2.330e+05
167	12.18		19.94-32.67	12.88	-25.61	-17.93	1.878e+05-2.716e+05-1.059e+052.214e+04 2.206e+05
198	13.04		70.63 39.34	69.51	40.47	-5.81	1.175e+05-3.595e+05-1.879e+05-5.413e+042.289e+05
199	15.17		40.44-103.53	-8.99	-54.10	-68.36	3.405e+05-2.123e+05 1.180e+05 1.018e+04 2.711e+05
103	2168	9.86	68.98-12.60	46.88	9.49	-36.26	1.766e+05-1.900e+05 2.206e+04-3.542e+04 1.810e+05
167	9.33		22.54-23.73	20.23	-21.42	-10.07	1.382e+05-2.137e+05-9.038e+041.483e+04 1.679e+05
198	9.76		64.67 28.25	63.94	28.97	5.09	7.785e+04-2.783e+05-1.539e+05-4.656e+041.698e+05
199	12.04		46.39-86.61	3.56	-43.77	-62.15	2.606e+05-1.762e+05 8.142e+04 2910.52 2.148e+05
104	1169	11.85	47.05 -1.53	23.75	21.77	-24.27	2.693e+05-1.774e+05 1.086e+05-1.684e+04 2.144e+05
168	12.52		21.25-49.17	-10.13	-17.78	-35.00	2.407e+05-2.282e+05-3.477e+044.727e+04 2.308e+05
199	14.35		96.53 -0.81	47.03	48.69	-48.67	2.108e+05-3.184e+05-1.076e+05 -82.63 2.591e+05
200	13.30		-11.82-62.48	-30.22	-44.08	-24.36	3.683e+05-1.126e+05 1.926e+05 6.306e+04 2.316e+05
104	2169	9.17	45.20 -1.59	28.59	15.02	-22.39	2.024e+05-1.429e+05 7.467e+04-1.515e+04 1.667e+05
168	9.54		18.43-31.31	2.53	-15.40	-23.20	1.785e+05-1.800e+05-3.564e+043.416e+04 1.758e+05
199	10.69		69.42 12.53	46.65	35.30	-27.87	1.493e+05-2.464e+05-9.210e+04 -4981.76 1.930e+05
200	10.52		6.19 -55.02	-12.77	-36.06	-28.31	2.817e+05-9.930e+04 1.388e+05 4.359e+04 1.845e+05
105	1170	10.92	28.88 -0.96	0.12	27.79	-5.59	2.938e+05-1.129e+05 1.711e+05 9794.37 1.866e+05
169	12.65		30.80-71.78	-31.63	-9.35	-50.06	2.847e+05-1.781e+05 3.669e+04 6.991e+04 2.308e+05
200	15.47		128.61-50.32	23.67	54.62	-88.12	2.944e+05-2.652e+05-2.392e+045.314e+04 2.772e+05
201	11.57		-19.47-61.86	-48.93	-32.40	19.52	3.818e+05-1.178e+04 2.576e+05 1.124e+05 1.829e+05
105	2170	8.39	24.30 5.78	10.42	19.65	-8.03	2.208e+05-9.272e+04 1.227e+05 5333.67 1.453e+05
169	9.58		23.41-46.34	-14.01	-8.92	-34.78	2.120e+05-1.410e+05 1.933e+04 5.158e+04 1.758e+05
200	11.48		92.76-24.21	28.69	39.86	-58.22	2.134e+05-2.052e+05-2.775e+043.595e+04 2.069e+05
201	9.04		-21.67-32.57	-27.16	-27.08	5.45	2.916e+05-2.131e+04 1.888e+05 8.151e+04 1.470e+05
106	1171	10.00	35.29-25.11	-22.22	32.40	12.89	3.085e+05-4.799e+04 2.249e+05 3.564e+04 1.511e+05
170	12.53		41.57-92.87	-50.56	-0.73	-62.43	3.179e+05-1.235e+05 1.053e+05 8.918e+04 2.205e+05
201	16.22		154.97-96.59	0.47	57.91	-122.46	3.646e+05-2.019e+05 5.943e+04 1.033e+05 2.824e+05
202	10.54		23.44-107.23	-64.21	-19.59	61.41	3.816e+05 8.445e+04 3.101e+05 1.560e+05 1.271e+05
106	2171	7.60	24.42 -8.00	-6.77	23.19	6.19	2.316e+05-4.225e+04 1.641e+05 2.521e+04 1.180e+05
170	9.45		30.77-61.64	-28.57	-2.29	-44.30	2.371e+05-9.865e+04 7.208e+04 6.640e+04 1.679e+05
201	12.02		112.71-59.48	10.84	42.39	-84.64	2.672e+05-1.563e+05 3.636e+04 7.453e+04 2.109e+05
202	8.13		11.14-67.27	-38.92	-17.22	37.67	2.908e+05 5.347e+04 2.292e+05 1.151e+05 1.040e+05
107	1171	12.17	51.31-109.66	7.70	-66.05	71.54	3.391e+05-6.690e+04 1.042e+05 1.680e+05-2.005e+05
202	16.51		173.87-136.87	58.41	-21.41	150.16	4.181e+05-1.311e+05 1.482e+05 1.388e+05-2.745e+05
203	9.72		64.51-146.07	-6.19	-75.38	-99.44	3.724e+05 1.675e+05 1.920e+05 3.478e+05-6.658e+04
172	9.25		45.84-52.70	35.36	-42.22	-30.38	3.144e+05 1.278e+04 5.956e+04 2.677e+05-1.092e+05
107	2171	9.13	37.82-74.10	4.20	-40.48	51.31	2.530e+05-5.475e+04 7.797e+04 1.203e+05-1.524e+05
202	12.21		127.10-90.32	42.78	-5.99	105.94	3.082e+05-1.017e+05 1.091e+05 9.741e+04-2.049e+05
203	7.42		42.73-97.15	-6.92	-47.50	-66.93	2.820e+05 1.190e+05 1.428e+05 2.582e+05-5.753e+04
172	6.94		32.53-29.21	25.47	-22.15	-19.64	2.354e+05 5238.53 4.361e+04 1.970e+05-8.578e+04
108	1172	11.58	59.03-120.78	15.57	-77.32	76.98	3.481e+05-1.151e+04 1.143e+05 2.222e+05-1.715e+05
203	16.30		184.22-169.15	56.07	-41.00	169.89	4.526e+05-5.588e+04 1.859e+05 2.109e+05-2.539e+05
204	10.14		101.86-176.51	7.17	-81.82	-131.88	3.694e+05 2.188e+05 2.189e+05 3.693e+05 -4109.16
173	8.83		55.16-77.54	36.54	-58.92	-46.09	3.145e+05 6.362e+04 8.049e+04 2.977e+05-6.284e+04



108	2172	8.64	43.49-82.39	10.25	-49.15	55.49	2.595e+05	-1.172e+04	8.576e+04	1.620e+05	-1.301e+05
	203	12.02	134.99-115.08	40.98	-21.06	121.12	3.346e+05	-4.372e+04	1.381e+05	1.528e+05	-1.890e+05
	204	7.45	71.48-120.58	3.36	-52.46	-91.89	2.755e+05	1.627e+05	1.635e+05	2.747e+05	-9469.79
	173	6.54	39.84-48.45	26.38	-35.00	-31.73	2.345e+05	4.534e+04	5.972e+04	2.201e+05	-5.013e+04
109	1173	10.84	64.17-125.43	22.54	-83.80	78.49	3.459e+05	3.888e+04	1.191e+05	2.656e+05	-1.349e+05
	204	15.59	185.58-191.95	51.04	-57.40	180.81	4.669e+05	2.022e+04	2.147e+05	2.725e+05	-2.215e+05
	205	11.30	133.88-197.19	19.85	-83.17	-157.32	3.945e+05	2.146e+05	2.356e+05	3.736e+05	5.770e+04
	174	8.82	62.20-97.84	35.86	-71.51	-59.34	3.146e+05	9.665e+04	9.756e+04	3.137e+05	-1.399e+04
109	2173	8.03	47.26-85.79	15.61	-54.14	56.65	2.574e+05	2.751e+04	8.944e+04	1.954e+05	-1.020e+05
	204	11.47	135.99-132.56	37.11	-33.68	129.53	3.455e+05	1.495e+04	1.602e+05	2.003e+05	-1.641e+05
	205	8.24	96.14-136.52	13.12	-53.50	-111.46	2.907e+05	1.636e+05	1.763e+05	2.780e+05	3.808e+04
	174	6.47	45.37-64.19	25.86	-44.68	-41.92	2.334e+05	7.186e+04	7.284e+04	2.324e+05	-1.255e+04
110	1174	10.03	66.35-123.20	28.25	-85.11	75.96	3.355e+05	7.923e+04	1.184e+05	2.964e+05	-9.219e+04
	205	14.45	177.83-204.28	43.42	-69.87	182.47	4.611e+05	9.335e+04	2.334e+05	3.211e+05	-1.786e+05
	206	12.77	159.09-207.11	31.30	-79.32	-174.54	4.315e+05	1.702e+05	2.411e+05	3.605e+05	1.162e+05
	175	9.21	66.32-112.45	33.29	-79.42	-69.38	3.208e+05	1.041e+05	1.100e+05	3.149e+05	3.526e+04
110	2174	7.39	48.80-83.94	20.01	-55.14	54.71	2.489e+05	5.900e+04	8.885e+04	2.191e+05	-6.913e+04
	205	10.59	130.00-142.02	31.25	-43.27	130.80	3.409e+05	7.132e+04	1.746e+05	2.376e+05	-1.311e+05
	206	9.32	115.56-144.18	21.92	-50.54	-124.72	3.181e+05	1.304e+05	1.806e+05	2.680e+05	8.308e+04
	175	6.74	48.67-75.56	23.88	-50.77	-49.65	2.375e+05	7.828e+04	8.242e+04	2.333e+05	2.534e+04
111	1175	9.32	65.72-114.28	32.55	-81.10	69.79	3.230e+05	1.023e+05	1.120e+05	3.133e+05	-4.529e+04
	206	13.03	161.50-205.59	33.64	-77.74	174.89	4.370e+05	1.587e+05	2.410e+05	3.547e+05	-1.270e+05
	207	14.22	176.55-205.88	41.10	-70.43	-182.90	4.586e+05	1.076e+05	2.354e+05	3.308e+05	1.689e+05
	176	9.88	67.68-120.91	29.08	-82.31	-76.09	3.333e+05	8.545e+04	1.173e+05	3.015e+05	8.290e+04
111	2175	6.83	48.20-76.95	23.31	-52.06	49.96	2.391e+05	7.692e+04	8.396e+04	2.321e+05	-3.305e+04
	206	9.51	117.41-143.01	23.72	-49.33	124.98	3.224e+05	1.216e+05	1.805e+05	2.635e+05	-9.139e+04
	207	10.41	129.03-143.27	29.46	-43.70	-131.14	3.389e+05	8.232e+04	1.762e+05	2.451e+05	1.236e+05
	176	7.27	49.85-82.20	20.64	-52.99	-54.81	2.472e+05	6.386e+04	8.800e+04	2.231e+05	6.199e+04
112	1176	8.86	61.85-98.78	35.06	-72.00	59.88	3.155e+05	1.004e+05	1.004e+05	3.155e+05	3930.02
	207	11.53	137.08-195.92	21.94	-80.79	158.38	4.010e+05	2.083e+05	2.374e+05	3.719e+05	-6.904e+04
	208	15.40	185.21-193.53	48.74	-57.06	-181.83	4.682e+05	3.594e+04	2.187e+05	2.854e+05	2.135e+05
	177	10.68	65.71-122.65	23.27	-80.21	-78.69	3.451e+05	4.793e+04	1.191e+05	2.739e+05	1.268e+05
112	2176	6.50	45.12-64.93	25.24	-45.06	42.34	2.339e+05	7.491e+04	7.505e+04	2.338e+05	4807.70
	207	8.40	98.61-135.56	14.73	-51.67	112.28	2.953e+05	1.591e+05	1.777e+05	2.767e+05	-4.681e+04
	208	11.32	135.74-133.82	35.33	-33.41	-130.33	3.465e+05	2.707e+04	1.633e+05	2.102e+05	1.580e+05
	177	7.90	48.49-83.69	16.17	-51.37	-56.81	2.566e+05	3.457e+04	8.940e+04	2.018e+05	9.576e+04
113	1177	8.80	55.33-77.73	35.83	-58.22	47.06	3.152e+05	7.176e+04	8.404e+04	3.030e+05	5.328e+04
	208	10.29	105.93-175.89	8.94	-78.90	133.89	3.722e+05	2.223e+05	2.226e+05	3.718e+05	-7138.23
	209	16.18	184.82-170.66	54.04	-39.89	-171.42	4.579e+05	-3.985e+04	1.916e+05	2.264e+05	2.483e+05
	178	11.45	60.80-117.93	16.25	-73.38	-77.31	3.496e+05	-1046.04	1.153e+05	2.332e+05	1.651e+05
113	2177	6.50	40.00-48.63	25.84	-34.46	32.48	2.348e+05	5.183e+04	6.244e+04	2.242e+05	4.277e+04
	208	7.54	74.65-120.15	4.72	-50.22	93.45	2.767e+05	1.663e+05	1.663e+05	2.767e+05	805.40
	209	11.93	135.50-116.29	39.41	-20.20	-122.32	3.386e+05	-3.136e+04	1.425e+05	1.648e+05	1.847e+05
	178	8.53	44.91-80.26	10.77	-46.12	-55.75	2.606e+05	-3571.59	8.653e+04	1.705e+05	1.252e+05
114	1178	9.17	46.45-52.24	34.80	-40.59	31.84	3.162e+05	2.344e+04	6.355e+04	2.761e+05	1.007e+05
	209	9.72	69.41-146.51	-4.79	-72.31	102.55	3.724e+05	1.794e+05	1.973e+05	3.545e+05	5.604e+04



210	16.48	175.38-138.46	56.79	-19.86	-152.17	4.272e+05	-1.158e+05	1.555e+05	1.559e+05	2.715e+05	
179	12.09	53.17-107.20	8.33	-62.35	-71.97	3.432e+05	-5.608e+04	1.062e+05	1.809e+05	1.961e+05	
114	2178	6.86	33.04-28.90	25.04	-20.90	20.77	2.366e+05	1.363e+04	4.669e+04	2.035e+05	7.923e+04
209	7.36	46.58-97.57	-5.84	-45.15	69.34	2.815e+05	1.287e+05	1.469e+05	2.633e+05	4.940e+04	
210	12.18	128.34-91.62	41.53	-4.80	-107.51	3.152e+05	-8.993e+04	1.147e+05	1.106e+05	2.025e+05	
179	9.06	39.33-72.29	4.68	-37.64	-51.65	2.561e+05	-4.634e+04	7.951e+04	1.303e+05	1.491e+05	
115	1210	10.45	29.18-109.25	-61.47	-18.60	-65.81	3.832e+05	9.977e+04	3.203e+05	1.626e+05	-1.177e+05
181	16.29	157.48-98.56	1.93	57.00	125.02	3.770e+05	-1.884e+05	7.683e+04	1.117e+05	-2.822e+05	
180	12.51	43.40-91.29	-47.82	-0.07	62.97	3.245e+05	-1.132e+05	1.192e+05	9.213e+04	-2.184e+05	
179	9.89	36.01-24.08	-20.11	32.04	-14.93	3.121e+05	-3.633e+04	2.359e+05	3.991e+04	-1.441e+05	
115	2210	8.05	15.69-68.96	-36.81	-16.46	-41.08	2.917e+05	6.549e+04	2.371e+05	1.201e+05	-9.684e+04
181	12.06	114.72-61.08	11.96	41.69	86.63	2.767e+05	-1.460e+05	4.975e+04	8.100e+04	-2.108e+05	
180	9.43	32.27-60.51	-26.46	-1.78	44.72	2.421e+05	-9.067e+04	8.279e+04	6.867e+04	-1.662e+05	
179	7.53	24.92 -7.15	-5.14	22.92	-7.77	2.342e+05	-3.314e+04	1.726e+05	2.850e+04	-1.126e+05	
116	1181	11.49	-13.11-65.66	-46.98	-31.79	-25.16	3.860e+05	4598.50	2.706e+05	1.200e+05	-1.752e+05
182	15.62	132.01-52.96	24.48	54.58	91.25	3.093e+05	-2.544e+05	-7298.49	6.225e+04	-2.797e+05	
151	12.69	32.42-71.47	-30.46	-8.59	50.78	2.934e+05	-1.691e+05	5.065e+04	7.363e+04	-2.309e+05	
180	10.81	28.07 1.77	2.11	27.73	2.97	2.993e+05	-1.014e+05	1.838e+05	1.413e+04	-1.815e+05	
116	2181	8.91	-16.31-35.96	-25.66	-26.61	-9.81	2.947e+05	-8569.19	1.988e+05	8.736e+04	-1.410e+05
182	11.59	95.45-26.32	29.30	39.83	60.66	2.249e+05	-1.969e+05	-1.497e+04	4.297e+04	-2.089e+05	
151	9.61	24.70-46.14	-13.10	-8.34	35.34	2.185e+05	-1.340e+05	3.006e+04	5.444e+04	-1.759e+05	
180	8.28	22.90 8.65	11.95	19.60	6.01	2.250e+05	-8.377e+04	1.325e+05	8670.14	-1.414e+05	
117	1182	13.10	-17.58-55.69	-29.58	-43.69	17.70	3.751e+05	-9.651e+04	2.073e+05	7.132e+04	-2.258e+05
183	14.57	100.76-4.27	46.88	49.62	52.50	2.272e+05	-3.107e+05	-9.272e+04	9274.83	-2.641e+05	
152	12.61	22.27-50.06	-10.92	-16.88	36.04	2.508e+05	-2.209e+05	-2.163e+04	5.153e+04	-2.330e+05	
151	11.76	44.74 2.32	24.97	22.08	21.16	2.765e+05	-1.670e+05	1.221e+05	-1.263e+04	-2.113e+05	
117	2182	10.35	1.94 -49.98	-12.28	-35.76	23.15	2.868e+05	-8.680e+04	1.501e+05	4.994e+04	-1.800e+05
183	10.85	72.57 9.98	46.54	36.01	30.85	1.619e+05	-2.404e+05	-8.068e+04	2218.79	-1.968e+05	
152	9.60	19.01-31.80	1.93	-14.71	24.01	1.862e+05	-1.743e+05	-2.554e+04	3.744e+04	-1.774e+05	
151	9.09	43.63 1.17	29.53	15.26	20.00	2.079e+05	-1.347e+05	8.505e+04	-1.191e+04	-1.643e+05	
118	1183	14.97	33.00-96.77	-9.97	-53.80	61.07	3.493e+05	-1.973e+05	1.332e+05	1.878e+04	-2.672e+05
184	13.30	71.99 38.55	68.31	42.23	10.47	1.346e+05	-3.550e+05	-1.754e+05	-4.491e+04	-2.359e+05	
153	12.30	18.84-33.29	10.16	-24.62	19.42	1.987e+05	-2.662e+05	-9.428e+04	2.677e+04	-2.245e+05	
152	12.62	73.58-10.70	47.54	15.34	38.95	2.437e+05	-2.293e+05	5.354e+04	-3.918e+04	-2.319e+05	
118	2183	11.88	40.72-81.45	2.81	-43.54	56.52	2.672e+05	-1.646e+05	9.308e+04	9532.82	-2.119e+05
184	9.95	63.09 30.26	63.02	30.33	-1.48	9.100e+04	-2.747e+05	-1.443e+05	-3.946e+04	-1.752e+05	
153	9.42	21.15-23.67	18.14	-20.67	11.22	1.465e+05	-2.095e+05	-8.142e+04	1.840e+04	-1.709e+05	
152	9.81	66.86 -9.90	46.89	10.07	33.68	1.830e+05	-1.831e+05	3.229e+04	-3.234e+04	-1.802e+05	
119	1184	16.70	84.13-134.68	11.15	-61.70	103.16	3.090e+05	-2.926e+05	5.171e+04	-3.535e+04	-2.976e+05
185	12.12	103.42-17.22	88.01	32.64	-33.04	3.626e+04	-3.857e+05	-2.515e+05	-9.793e+04	-1.965e+05	
154	11.84	32.15-31.57	32.11	-31.53	1.60	1.398e+05	-3.033e+05	-1.639e+05	438.74	-2.058e+05	
153	13.29	101.87-25.11	68.99	7.77	55.62	2.021e+05	-2.852e+05	-1.876e+04	-6.436e+04	-2.426e+05	
119	2184	13.26	80.01-110.58	19.05	-49.62	88.89	2.365e+05	-2.382e+05	3.042e+04	-3.211e+04	-2.353e+05
185	9.23	95.10 6.02	78.17	22.95	-34.95	1.577e+04	-2.989e+05	-2.028e+05	-8.024e+04	-1.449e+05	
154	9.13	35.13-26.08	35.03	-25.98	-2.49	1.016e+05	-2.385e+05	-1.350e+05	-1861.39	-1.565e+05	
153	10.37	88.93-21.29	63.39	4.25	46.50	1.514e+05	-2.264e+05	-2.332e+04	-5.171e+04	-1.884e+05	



120	1185	18.10	133.67-167.77	33.04	-67.15	142.15	2.559e+05-3.779e+05-3.329e+04-8.871e+04-3.157e+05
	186	11.39	150.28-23.74	105.26	21.28	-76.21	-6.219e+04-4.029e+05-3.176e+05-1.475e+05-1.476e+05
	155	11.31	57.08-40.26	54.13	-37.32	-16.66	7.734e+04-3.310e+05-2.274e+05-2.633e+04-1.777e+05
	154	13.71	127.47-39.19	88.64	-0.35	70.46	1.534e+05-3.319e+05-9.139e+04-8.708e+04-2.426e+05
120	2185	14.38	118.10-136.02	35.90	-53.81	118.88	1.958e+05-3.039e+05-3.496e+04-7.315e+04-2.491e+05
	186	8.73	131.17-25.51	91.44	14.21	-68.16	-5.921e+04-3.128e+05-2.537e+05-1.184e+05-1.072e+05
	155	8.79	55.16-33.63	51.97	-30.43	-16.54	5.408e+04-2.603e+05-1.838e+05-2.245e+04-1.349e+05
	154	10.73	108.78-32.28	78.51	-2.00	57.92	1.143e+05-2.627e+05-7.919e+04-6.919e+04-1.884e+05
121	1	65	27.86	-639.84-1116.12-1042.18	-713.77	172.47	8.072e+05-2.062e+04 5.664e+05 2.202e+05-3.760e+05
	66	25.37	1104.25665.52 1090.54	679.23	-76.34	-4.060e+05-8.093e+05-7.880e+05-4.272e+05-9.014e+04	
	185	12.32	-245.42-542.75 -529.67	-258.51	-60.98	9.603e+04-3.139e+05-1.694e+05-4.845e+04-1.958e+05	
	184	16.33	628.22220.03 610.13	238.13	84.02	2.398e+05-3.751e+05-5.464e+04-8.071e+04-3.072e+05	
121	2	65	22.12	-475.95-867.73 -792.74	-550.94	154.13	6.301e+05-4.296e+04 4.256e+05 1.615e+05-3.095e+05
	66	19.68	866.41502.02 847.82	520.61	-80.18	-3.282e+05-6.246e+05-6.163e+05-3.365e+05-4.904e+04	
	185	9.41	-186.37-412.23 -397.92	-200.67	-55.01	6.099e+04-2.436e+05-1.408e+05-4.184e+04-1.440e+05	
	184	13.04	495.67164.52 478.84	181.35	72.72	1.834e+05-3.026e+05-5.248e+04-6.666e+04-2.429e+05	
122	1	66	28.88	-558.10-1104.88-979.37	-683.62	229.94	7.547e+05-1.944e+05 4.400e+05 1.203e+05-4.469e+05
	67	25.92	1066.71580.06 1022.70	624.08	-139.59	-4.869e+05-8.309e+05-8.306e+05-4.872e+05 1.001e+04	
	186	11.93	-202.54-527.26 -481.73	-248.07	-112.74	-1.443e+04-3.361e+05-2.507e+05-9.989e+04-1.421e+05	
	185	18.55	631.72174.47 587.99	218.20	134.47	1.929e+05-4.662e+05-1.433e+05-1.301e+05-3.295e+05	
122	2	66	23.08	-410.09-862.09 -744.43	-527.75	198.34	5.904e+05-1.774e+05 3.283e+05 8.471e+04-3.640e+05
	67	20.36	841.34432.49 795.63	478.20	-128.83	-3.797e+05-6.520e+05-6.491e+05-3.826e+05 2.800e+04	
	186	9.17	-150.03-403.66 -361.05	-192.64	-94.82	-2.293e+04-2.618e+05-2.033e+05-8.141e+04-1.027e+05	
	185	14.75	499.16128.68 461.82	166.02	111.54	1.475e+05-3.728e+05-1.207e+05-1.047e+05-2.600e+05	
123	1	67	29.70	-440.72-1054.38-871.67	-623.43	280.60	6.732e+05-3.665e+05 2.928e+05 1.389e+04-5.008e+05
	68	26.58	997.93453.54 910.67	540.80	-199.72	-4.904e+05-8.740e+05-8.376e+05-5.268e+05 1.125e+05	
	187	11.57	-133.95-503.95 -410.90	-227.00	-160.54	-1.157e+05-3.540e+05-3.221e+05-1.477e+05-8.120e+04	
	186	20.09	616.79112.34 540.97	188.17	180.28	1.385e+05-5.397e+05-2.268e+05-1.745e+05-3.381e+05	
123	2	67	23.85	-317.70-825.34 -661.58	-481.46	237.30	5.282e+05-3.102e+05 2.151e+05 2822.44-4.055e+05
	68	21.10	790.84332.76 709.46	414.14	-175.09	-3.726e+05-6.949e+05-6.544e+05-4.131e+05 1.068e+05	
	187	8.96	-94.70-388.30 -306.56	-176.43	-131.59	-9.863e+04-2.777e+05-2.582e+05-1.182e+05-5.586e+04	
	186	15.95	488.0680.49 425.64	142.91	146.78	1.058e+05-4.295e+05-1.849e+05-1.388e+05-2.667e+05	
124	1	69	27.33	898.88294.53 433.52	759.88	254.33	-4.262e+05-9.271e+05-5.444e+05-8.088e+05-2.127e+05
	188	11.34	-46.73-470.02 -196.23	-320.52	202.31	-1.884e+05-3.818e+05-1.897e+05-3.805e+05 1.594e+04	
	187	20.88	582.4938.62 149.62	471.49	-219.20	7.896e+04-5.924e+05-2.120e+05-3.015e+05 3.327e+05	
	68	30.26	-294.48-965.66 -536.00	-724.14	-322.14	5.658e+05-5.287e+05-9.442e+04 1.314e+05 5.355e+05	
124	2	69	21.88	716.06209.03 331.62	593.46	217.09	-3.188e+05-7.402e+05-4.267e+05-6.323e+05-1.839e+05
	188	8.85	-25.83-363.97 -152.76	-237.04	163.73	-1.503e+05-3.034e+05-1.505e+05-3.032e+05 5658.98	
	187	16.56	461.8023.66 113.26	372.20	-176.72	6.018e+04-4.701e+05-1.676e+05-2.423e+05 2.625e+05	
	68	24.39	-203.70-758.60 -414.21	-548.09	-269.26	4.459e+05-4.354e+05-8.050e+04 9.101e+04 4.322e+05	
125	1	70	28.14	772.03112.23 307.00	577.26	300.95	-3.194e+05-9.660e+05-5.394e+05-7.459e+05-3.063e+05
	189	11.33	52.12-424.01 -157.12	-214.77	236.32	-2.120e+05-4.357e+05-2.242e+05-4.235e+05-5.083e+04	
	188	20.88	529.30-42.33 104.15	382.82	-249.55	1.708e+04-6.221e+05-2.409e+05-3.641e+05 3.136e+05	
	69	30.54	-126.96-842.21 -425.52	-543.64	-352.71	4.373e+05-6.737e+05-1.998e+05-3.663e+05 4.495e+05	
125	2	70	22.66	619.2268.06 234.29	452.99	252.96	-2.350e+05-7.717e+05-4.228e+05-5.839e+05-2.559e+05
	189	8.90	51.43-329.79 -122.67	-155.69	189.89	-1.648e+05-3.484e+05-1.770e+05-3.362e+05-4.571e+04	



188	16.57	420.84-38.57	78.28	303.99	-200.07	1.268e+04-4.931e+05-1.899e+05-2.905e+052.478e+05	
69	24.68	-73.74-664.74	-329.23	-409.25	-292.77	3.473e+05-5.471e+05-1.615e+05-3.828e+044.430e+05	
126	1 32	28.95	621.33-83.77	166.56	371.00	337.40-1.864e+05-9.774e+05-5.119e+05-6.519e+05-3.892e+05	
190	13.23	156.39-366.11	-111.35	-98.37	261.17-1.962e+05-5.026e+05-2.496e+05-4.493e+05-1.162e+05		
189	20.10	458.87-126.20	53.79	278.89	-270.01-4.425e+04-6.277e+05-2.600e+05-4.120e+052.817e+05		
70	30.53	53.84-688.88	-296.60	-338.44	-370.77	2.934e+05-7.950e+05-2.975e+05-2.040e+055.422e+05	
126	2 32	23.40	503.58-83.01	126.25	294.33	281.00-1.322e+05-7.810e+05-4.016e+05-5.116e+05-3.197e+05	
190	10.68	132.48-286.09	-87.46	-66.14	209.01-1.515e+05-4.011e+05-1.966e+05-3.560e+05-9.599e+04		
189	15.97	366.49-102.92	39.53	224.03	-215.82-3.439e+04-4.975e+05-2.045e+05-3.274e+052.233e+05		
70	24.71	66.12-547.58	-230.05	-251.40	-306.67	2.368e+05-6.406e+05-2.368e+05-1.670e+054.374e+05	
127	1 71	29.67	451.98-284.72	18.12	149.14	362.48-3.728e+04-9.555e+05-4.630e+05-5.298e+05-4.579e+05	
191	16.01	259.55-298.71	-62.01	22.85	275.89-1.584e+05-5.622e+05-2.644e+05-4.562e+05-1.777e+05		
190	18.58	374.03-208.85	0.61	164.57	-279.67-1.020e+05-6.100e+05-2.683e+05-4.437e+052.384e+05		
32	30.25	239.80-512.00	-155.48	-116.72	-375.40	1.402e+05-8.879e+05-3.831e+05-3.647e+055.139e+05	
127	2 71	24.03	373.26-237.62	12.04	123.61	300.30-1.729e+04-7.643e+05-3.640e+05-4.176e+05-3.725e+05	
191	12.82	212.45-234.89	-49.53	27.10	220.36-1.221e+05-4.472e+05-2.079e+05-3.614e+05-1.433e+05		
190	14.80	300.95-166.23	-1.38	136.10	-223.24-7.877e+04-4.840e+05-2.110e+05-3.518e+051.900e+05		
32	24.51	209.72-412.04	-121.52	-80.80	-310.21	1.191e+05-7.123e+05-3.025e+05-2.907e+054.156e+05	
128	1 72	30.23	272.77-477.71	-128.58	-76.36	374.33	1.168e+05-9.005e+05-3.962e+05-3.875e+05-5.086e+05
192	18.25	356.95-221.07	-8.34	144.22	278.76-1.098e+05-6.044e+05-2.690e+05-4.452e+05-2.311e+05		
191	16.37	278.07-284.72	-51.18	44.53	-277.30-1.534e+05-5.697e+05-2.662e+05-4.570e+051.850e+05		
71	29.72	422.70-319.54	-6.66	109.82	-366.52-1.500e+04-9.479e+05-4.538e+05-5.091e+054.656e+05		
128	2 72	24.49	235.18-385.76	-100.75	-49.84	309.43	1.012e+05-7.220e+05-3.126e+05-3.082e+05-4.116e+05
192	14.54	287.78-175.53	-8.21	120.46	222.55-8.471e+04-4.797e+05-2.115e+05-3.529e+05-1.844e+05		
191	13.10	226.72-224.14	-41.18	43.76	-221.40-1.183e+05-4.530e+05-2.093e+05-3.620e+051.489e+05		
71	24.07	350.75-264.28	-6.98	93.46	-303.39	-227.96-7.585e+05-3.570e+05-4.018e+053.785e+05	
129	1 73	30.56	88.89-656.52	-271.28	-296.36	372.49	2.699e+05-8.133e+05-3.123e+05-2.310e+05-5.400e+05
193	19.89	444.08-140.35	43.65	260.08	271.44-5.267e+04-6.258e+05-2.620e+05-4.165e+05-2.759e+05		
192	13.69	175.52-354.64	-102.87	-76.25	-264.75-1.917e+05-5.119e+05-2.525e+05-4.512e+051.255e+05		
72	29.00	592.77-122.33	139.39	331.05	-344.47-1.629e+05-9.731e+05-5.047e+05-6.313e+054.001e+05		
129	2 73	24.74	93.24-522.81	-210.54	-219.02	308.00	2.188e+05-6.547e+05-2.481e+05-1.878e+05-4.357e+05
193	15.80	355.10-113.76	31.77	209.58	216.92-4.086e+04-4.960e+05-2.061e+05-3.308e+05-2.189e+05		
192	11.02	147.30-277.43	-80.98	-49.15	-211.77-1.480e+05-4.083e+05-1.988e+05-3.575e+051.032e+05		
72	23.45	481.62-112.72	105.33	263.58	-286.44-1.140e+05-7.778e+05-3.961e+05-4.957e+053.281e+05		
130	1 74	30.59	-91.61-813.13	-401.70	-503.04	357.19	4.148e+05-6.962e+05-2.166e+05-6.477e+04-5.503e+05
194	20.78	516.73-57.71	93.90	365.12	253.19	8349.34-6.231e+05-2.443e+05-3.705e+05-3.094e+05	
193	11.30	71.84-412.70	-149.01	-191.86	-241.32-2.117e+05-4.450e+05-2.289e+05-4.278e+056.098e+04		
73	28.16	745.4574.05	279.97	539.54	-309.60-2.978e+05-9.656e+05-5.350e+05-7.284e+053.196e+05		
130	2 74	24.73	-46.32-642.56	-310.86	-378.02	296.22	3.301e+05-5.645e+05-1.745e+05-5.992e+04-4.436e+05
194	16.49	411.17-50.38	70.42	290.37	202.88	5992.78-4.939e+05-1.925e+05-2.954e+05-2.446e+05	
193	8.89	66.79-321.32	-116.46	-138.08	-193.75-1.643e+05-3.559e+05-1.807e+05-3.395e+055.353e+04		
73	22.70	598.8538.57	213.46	423.96	-259.61-2.183e+05-7.715e+05-4.194e+05-5.704e+052.661e+05		
131	1 75	30.31	-260.58-940.52	-514.82	-686.27	328.99	5.447e+05-5.547e+05-1.125e+051.025e+05-5.391e+05
195	20.88	572.0722.79	139.79	455.08	224.89	7.007e+04-5.966e+05-2.167e+05-3.098e+05-3.301e+05	
194	11.26	-28.18-458.78	-188.93	-298.03	-208.28-1.959e+05-3.872e+05-1.961e+05-3.871e+05	-5318.00	
74	27.29	874.32258.74	408.21	724.86	-263.95-4.089e+05-9.291e+05-5.432e+05-7.948e+052.277e+05		





131	2	75	24.44	-177.30-739.55	-397.88	-518.96	274.53	4.297e+05-4.554e+05-9.442e+046.871e+04-4.350e+05		
195	16.56	453.8111.48	105.71	359.58	181.12	5.337e+04-4.734e+05-1.713e+05-2.488e+05-2.605e+05				
194	8.80	-11.25-355.66	-147.17	-219.74	-168.34-1.554e+05-3.083e+05-1.554e+05-3.082e+05	2539.04				
74	21.88	697.34181.28	312.11	566.52	-224.50-3.050e+05-7.422e+05-4.257e+05-6.214e+051.954e+05					
132	1196	20.20	608.2497.09	526.00	179.33	-187.81	1.296e+05-5.471e+05-2.372e+05-1.804e+053.372e+05			
195	11.44	-118.03-492.70	-390.01	-220.72	167.12-1.306e+05-3.558e+05-3.310e+05-1.554e+057.049e+04					
75	26.47	975.07422.32	879.13	518.26	209.35-4.812e+05-8.753e+05-8.277e+05-5.289e+05-1.285e+05					
76	29.72	-410.31-1033.53-838.34	-605.51	-289.05	6.537e+05-3.949e+05	2.636e+05	-4777.04	5.069e+05		
132	2196	16.04	481.5468.71	414.13	136.13	-152.60	9.903e+04-4.352e+05-1.929e+05-1.433e+052.660e+05			
195	8.87	-82.01-380.11	-290.50	-171.62	136.69-1.095e+05-2.796e+05-2.651e+05-1.241e+054.759e+04					
75	21.06	773.58308.38	685.19	396.77	182.50-3.644e+05-6.970e+05-6.468e+05-4.147e+05-1.191e+05					
76	23.88	-293.87-809.71	-635.94	-467.64	-243.81	5.133e+05-3.322e+05	1.926e+05-1.154e+04	4.102e+05		
133	1197	18.76	624.66161.05	574.84	210.87	-143.58	1.842e+05-4.767e+05-1.556e+05-1.369e+053.303e+05			
196	11.77	-190.63-516.33	-463.90	-243.05	119.70-3.289e+04-3.377e+05-2.620e+05-1.086e+051.317e+05					
76	25.76	1045.65555.50	995.78	605.37	148.18-4.906e+05-8.279e+05-8.259e+05-4.927e+05-2.624e+04					
77	28.85	-533.51-1089.13-952.83	-669.81	-239.07	7.375e+05-2.239e+05	4.117e+05	1.019e+05	4.550e+05		
133	2197	14.92	493.86118.22	451.69	160.38	-118.58	1.409e+05-3.810e+05-1.302e+05-1.099e+052.607e+05			
196	9.06	-140.30-395.83	-347.34	-188.80	100.20-3.692e+04-2.632e+05-2.120e+05-8.814e+049.470e+04					
76	20.28	825.62413.08	774.91	463.78	135.45-3.806e+05-6.516e+05-6.454e+05-3.868e+05-4.049e+04					
77	23.08	-390.62-850.50	-724.01	-517.12	-205.36	5.772e+05-2.002e+05	3.066e+05	7.050e+04	3.703e+05	
134	1198	16.65	622.31210.28	599.55	233.03	-94.12	2.316e+05-3.886e+05-6.882e+04-8.821e+043.099e+05			
197	12.17	-238.31-533.23	-516.57	-254.97	68.09	7.615e+04-3.170e+05-1.830e+05-5.788e+041.864e+05				
77	25.20	1086.26649.39	1069.82	665.82	83.13-4.211e+05-8.045e+05-7.894e+05-4.362e+057.459e+04					
78	27.78	-623.24-1106.61-1024.82	-705.03	-181.23	7.928e+05-4.960e+04	5.404e+05	2.028e+05	3.859e+05		
134	2198	13.29	491.36156.77	470.70	177.43	-80.53	1.772e+05-3.130e+05-6.339e+04-7.244e+042.450e+05			
197	9.30	-180.31-405.49	-387.85	-197.96	60.51	4.579e+04-2.461e+05-1.512e+05-4.911e+041.367e+05				
77	19.59	853.15489.01	831.87	510.29	85.41-3.385e+05-6.223e+05-6.174e+05-3.434e+053.706e+04					
78	22.09	-462.53-861.06	-779.39	-544.21	-160.87	6.191e+05-6.542e+04	4.056e+05	1.482e+05	3.172e+05	
135	1199	13.99	604.21240.12	599.41	244.92	-41.54	2.698e+05-2.868e+05	1.946e+04-3.643e+04	2.769e+05	
198	12.53	-255.23-546.51	-545.78	-255.96	14.56	1.852e+05-2.880e+05-9.742e+04	-5369.57	2.320e+05		
78	24.81	1098.96696.31	1098.24	697.03	17.08-2.943e+05-7.876e+05-7.201e+05-3.619e+051.696e+05					
79	26.59	-672.80-1088.06-1051.24	-709.62	-118.04	8.185e+05	1.193e+05	6.441e+05	2.937e+05	3.025e+05	
135	2199	11.22	476.14181.02	470.59	186.57	-40.08	2.064e+05-2.345e+05	4528.07-3.260e+04	2.196e+05	
198	9.53	-196.96-412.07	-410.32	-198.72	19.33	1.290e+05-2.231e+05-8.539e+04	-8712.10	1.719e+05		
78	19.02	857.44530.60	853.74	534.30	34.60-2.479e+05-6.024e+05-5.640e+05-2.862e+051.102e+05					
79	20.97	-504.99-842.48	-799.72	-547.75	-112.26	6.378e+05	6.552e+04	4.853e+05	2.180e+05	2.530e+05
136	1200	12.68	574.37245.60	573.94	246.03	11.86	2.976e+05-1.761e+05	1.053e+05	1.618e+04	2.326e+05
199	13.50	-241.36-555.48	-550.68	-246.16	-38.53	2.870e+05-2.495e+05	-9227.87	4.672e+04	2.668e+05	
79	24.55	1085.45691.94	1079.71	697.68	-47.18-1.386e+05-7.554e+05-6.210e+05-2.731e+052.546e+05					
80	25.40	-676.09-1039.12-1031.46	-683.75	-52.17	8.160e+05	2.730e+05	7.183e+05	3.707e+05	2.086e+05	
136	2200	9.87	451.01187.42	451.01	187.43	0.99	2.274e+05-1.490e+05	7.058e+04	7863.71	1.856e+05
199	9.93	-189.12-416.15	-414.09	-191.18	-21.51	2.070e+05-1.932e+05-1.754e+043.136e+04	1.986e+05			
79	18.55	840.19534.07	839.47	534.79	-14.83-1.314e+05-5.743e+05-4.878e+05-2.179e+051.756e+05					
80	19.81	-513.82-798.51	-784.49	-527.84	-61.60	6.341e+05	1.857e+05	5.425e+05	2.773e+05	1.808e+05
137	1201	11.92	538.46222.90	525.03	236.32	63.68	3.150e+05-6.239e+04	1.853e+05	6.729e+04	1.792e+05
200	15.62	-201.85-554.40	-530.38	-225.86	-88.82	3.762e+05-2.022e+05	7.795e+04	9.603e+04	2.891e+05	



80	24.38	1045.81637.94	1015.73	668.03	-106.61	2.867e+04	-6.989e+05	-4.964e+05	-1.738e+05	3.260e+05		
81	24.32	-627.82	-966.44	-965.92	-628.34	13.26	7.925e+05	3.980e+05	7.602e+05	4.303e+05	1.082e+05	
137	2201	9.22	420.33	173.01	413.38	179.95	40.86	2.402e+05	-6.097e+04	1.321e+05	4.718e+04	1.445e+05
200	11.54	-160.35	-413.69	-398.48	-175.57	-60.19	2.753e+05	-1.565e+05	4.952e+04	6.929e+04	2.157e+05	
80	18.16	802.87	499.38	790.26	511.99	-60.54	-4440.42	-5.290e+05	-3.920e+05	-1.415e+05	2.305e+05	
81	18.71	-484.72	-734.59	-734.08	-485.23	-11.26	6.118e+05	2.860e+05	5.747e+05	3.232e+05	1.035e+05	
138	1202	11.16	498.79	171.94	454.59	216.15	111.78	3.234e+05	4.698e+04	2.556e+05	1.147e+05	1.189e+05
201	17.10	-143.58	-538.81	-486.36	-196.02	-134.08	4.484e+05	-1.477e+05	1.603e+05	1.404e+05	2.979e+05	
81	24.23	977.17	540.76	908.84	609.08	-158.59	1.963e+05	-6.162e+05	-3.519e+05	-6.802e+04	3.806e+05	
82	23.45	-528.59	-875.07	-857.76	-545.91	75.49	7.678e+05	4.699e+05	7.677e+05	4.701e+05	5683.81	
138	2202	8.58	386.49	137.14	359.19	164.44	77.85	2.456e+05	2.426e+04	1.862e+05	8.368e+04	9.808e+04
201	12.67	-116.26	-400.96	-364.61	-152.61	-95.01	3.307e+05	-1.144e+05	1.128e+05	1.034e+05	2.225e+05	
81	17.83	744.43	430.27	708.04	466.66	-100.53	1.235e+05	-4.645e+05	-2.808e+05	-6.018e+04	2.725e+05	
82	17.76	-416.12	-656.59	-650.88	-421.83	36.61	5.831e+05	3.511e+05	5.804e+05	3.537e+05	2.468e+04	
139	1202	17.87	-72.49	-505.70	-157.95	-420.24	172.39	5.004e+05	-8.822e+04	1.780e+05	2.342e+05	-2.930e+05
82	24.04	877.72	409.73	523.59	763.85	200.81	3.549e+05	-5.092e+05	3.940e+04	-1.937e+05	-4.160e+05	
83	22.87	-386.68	-764.95	-440.10	-711.54	-131.72	7.720e+05	4.567e+05	4.881e+05	7.407e+05	9.437e+04	
203	10.53	454.38	97.94	186.50	365.82	-154.03	3.303e+05	1.394e+05	1.564e+05	3.134e+05	-5.426e+04	
139	2202	13.25	-61.82	-375.26	-123.32	-313.75	124.48	3.705e+05	-6.851e+04	1.323e+05	1.697e+05	-2.187e+05
82	17.50	663.81	333.61	400.90	596.52	133.01	2.448e+05	-3.815e+05	2.244e+04	-1.591e+05	-2.997e+05	
83	17.02	-312.25	-566.61	-340.45	-538.41	-79.86	5.730e+05	3.543e+05	3.676e+05	5.597e+05	5.228e+04	
203	8.02	349.49	83.04	141.63	290.91	-110.35	2.483e+05	9.805e+04	1.157e+05	2.306e+05	-4.837e+04	
140	1203	17.86	6.16	-454.47	-113.44	-334.87	201.96	5.298e+05	-2.619e+04	2.071e+05	2.966e+05	-2.744e+05
83	23.76	747.94	254.52	415.27	587.18	231.25	4.968e+05	-3.815e+05	1.438e+05	-2.854e+04	-4.306e+05	
84	22.59	-214.78	-634.56	-315.77	-533.56	-179.43	7.938e+05	3.703e+05	4.838e+05	6.803e+05	1.876e+05	
204	10.13	402.62	8.57	148.50	262.69	-188.57	3.571e+05	1.896e+05	1.904e+05	3.562e+05	1.177e+04	
140	2203	13.24	-1.26	-335.90	-89.07	-248.08	147.23	3.931e+05	-2.066e+04	1.547e+05	2.177e+05	-2.044e+05
83	17.15	561.11	217.10	317.59	460.63	156.43	3.535e+05	-2.828e+05	1.028e+05	-3.207e+04	-3.109e+05	
84	16.55	-182.72	-463.61	-244.82	-401.51	-116.56	5.834e+05	2.942e+05	3.643e+05	5.132e+05	1.240e+05	
204	7.64	307.62	16.36	112.40	211.58	-136.93	2.636e+05	1.419e+05	1.419e+05	2.636e+05	2423.28	
141	1204	17.08	88.28	-386.23	-64.23	-233.72	221.61	5.356e+05	3.542e+04	2.264e+05	3.446e+05	-2.430e+05
84	23.39	591.01	84.44	288.86	386.58	248.53	6.155e+05	-2.385e+05	2.408e+05	1.362e+05	-4.238e+05	
85	22.57	-25.29	-484.28	-178.15	-331.41	-216.32	8.012e+05	2.456e+05	4.575e+05	5.893e+05	2.699e+05	
205	10.24	341.80	-88.48	103.73	149.58	-213.92	4.120e+05	1.859e+05	2.156e+05	3.823e+05	7.639e+04	
141	2204	12.64	62.17	-283.66	-51.22	-170.27	162.35	3.974e+05	2.685e+04	1.696e+05	2.546e+05	-1.803e+05
84	16.79	438.42	88.26	220.35	306.32	169.72	4.445e+05	-1.724e+05	1.774e+05	9.466e+04	-3.057e+05	
85	16.34	-37.98	-346.99	-138.96	-246.01	-144.94	5.874e+05	1.999e+05	3.440e+05	4.432e+05	1.873e+05	
205	7.51	259.42	-56.89	77.96	124.57	-156.43	3.028e+05	1.421e+05	1.613e+05	2.836e+05	5.214e+04	
142	1205	15.58	170.05	-303.62	-12.51	-121.06	230.53	5.181e+05	9.346e+04	2.353e+05	3.763e+05	-2.003e+05
85	22.97	412.09	-92.00	149.52	170.57	251.82	7.062e+05	-8.620e+04	3.263e+05	2.937e+05	-3.958e+05	
86	22.73	170.71	-317.28	-33.00	-113.57	-240.65	7.799e+05	1.015e+05	4.098e+05	4.715e+05	3.378e+05	
206	12.93	271.89	-186.50	54.05	31.34	-228.91	4.691e+05	1.521e+05	2.306e+05	3.905e+05	1.369e+05	
142	2205	11.48	125.50	-220.55	-11.44	-83.61	169.22	3.838e+05	7.159e+04	1.764e+05	2.790e+05	-1.474e+05
85	16.44	299.44	-46.11	113.18	140.16	172.25	5.140e+05	-5.506e+04	2.431e+05	2.158e+05	-2.842e+05	
86	16.33	112.76	-218.51	-27.31	-78.44	-163.65	5.706e+05	8.940e+04	3.074e+05	3.526e+05	2.395e+05	
206	9.44	204.68	-131.32	39.74	33.62	-167.97	3.461e+05	1.167e+05	1.728e+05	2.899e+05	9.866e+04	



143	1206	13.43	248.49-210.13	39.68	-1.32	228.39	4.792e+05	1.442e+05	2.330e+05	3.904e+05	-1.479e+05
86	22.55	218.07-266.59	3.26	-51.78	240.76	7.650e+05	6.881e+04	3.962e+05	4.375e+05	-3.475e+05	
87	22.97	363.29-138.92	113.35	111.02	-251.10	7.255e+05	-5.034e+04	3.431e+05	3.320e+05	3.879e+05	
207	15.18	194.36-279.76	1.61	-87.01	-232.88	5.119e+05	1.037e+05	2.349e+05	3.807e+05	1.906e+05	
143	2206	9.83	186.48-149.27	28.71	8.50	167.57	3.539e+05	1.106e+05	1.746e+05	2.899e+05	-1.071e+05
86	16.17	149.40-179.61	0.67	-30.88	163.75	5.591e+05	6.427e+04	2.969e+05	3.264e+05	-2.470e+05	
87	16.44	261.55-81.96	85.27	94.32	-171.69	5.288e+05	-2.742e+04	2.561e+05	2.453e+05	2.781e+05	
207	11.17	144.36-202.38	-0.60	-57.42	-171.02	3.790e+05	7.952e+04	1.761e+05	2.824e+05	1.400e+05	
144	1207	10.81	320.93-110.82	89.92	120.19	215.35	4.243e+05	1.818e+05	2.198e+05	3.863e+05	-8.818e+04
87	22.27	17.98-432.96	-143.66	-271.32	216.25	7.919e+05	2.174e+05	4.477e+05	5.615e+05	-2.816e+05	
88	23.25	544.3243.20	254.78	332.74	-247.51	6.392e+05	-2.026e+05	2.602e+05	1.764e+05	4.189e+05	
208	16.82	111.50-363.74	-51.46	-200.79	-225.58	5.342e+05	4.721e+04	2.283e+05	3.531e+05	2.354e+05	
144	2207	7.83	243.15-73.83	67.36	101.96	157.54	3.121e+05	1.391e+05	1.645e+05	2.867e+05	-6.122e+04
87	16.08	-4.72-307.39	-112.35	-199.75	144.89	5.800e+05	1.783e+05	3.365e+05	4.218e+05	-1.963e+05	
88	16.66	402.0756.87	194.07	264.88	-168.93	4.627e+05	-1.448e+05	1.923e+05	1.256e+05	3.019e+05	
208	12.44	80.15-266.50	-41.42	-144.94	-165.41	3.963e+05	3.595e+04	1.710e+05	2.612e+05	1.744e+05	
145	1208	10.11	386.04-11.49	136.16	238.38	192.08	3.674e+05	1.930e+05	1.963e+05	3.642e+05	-2.366e+04
88	22.25	-178.09-585.90	-285.23	-478.77	179.48	7.897e+05	3.495e+05	4.788e+05	6.605e+05	-2.005e+05	
89	23.50	706.68220.90	385.47	542.11	-229.92	5.235e+05	-3.479e+05	1.644e+05	1.115e+04	4.289e+05	
209	17.76	26.69-434.54	-102.67	-305.18	-207.20	5.335e+05	-1.367e+04	2.110e+05	3.089e+05	2.692e+05	
145	2208	7.61	294.62 1.19	102.93	192.89	139.65	2.708e+05	1.453e+05	1.464e+05	2.697e+05	-1.160e+04
88	16.26	-154.78-425.80	-221.25	-359.33	116.61	5.797e+05	2.787e+05	3.604e+05	4.980e+05	-1.339e+05	
89	16.92	528.97191.57	294.60	425.93	-155.40	3.739e+05	-2.568e+05	1.186e+05	-1507.30	3.096e+05	
209	13.16	14.60-320.66	-80.81	-225.24	-151.28	3.959e+05	-1.100e+04	1.577e+05	2.272e+05	2.005e+05	
146	1209	10.49	443.3680.99	176.39	347.97	159.59	3.355e+05	1.526e+05	1.632e+05	3.248e+05	4.287e+04
89	22.58	-358.07-722.43	-415.10	-665.39	132.40	7.711e+05	4.466e+05	4.877e+05	7.300e+05	-1.079e+05	
90	23.72	844.90384.46	499.58	729.77	-199.38	3.832e+05	-4.798e+05	6.004e+04	-1.567e+05	4.177e+05	
210	17.93	-56.04-489.66	-149.76	-395.93	-178.48	5.091e+05	-7.575e+04	1.838e+05	2.496e+05	2.906e+05	
146	2209	7.98	340.7370.32	133.87	277.18	114.66	2.514e+05	1.090e+05	1.210e+05	2.394e+05	3.958e+04
89	16.76	-290.71-533.35	-321.16	-502.89	80.39	5.708e+05	3.480e+05	3.673e+05	5.514e+05	-6.271e+04	
90	17.22	638.29314.39	382.39	570.29	-131.91	2.665e+05	-3.588e+05	3.832e+04	-1.306e+05	3.010e+05	
210	13.30	-49.15-362.93	-117.03	-295.05	-129.19	3.772e+05	-5.890e+04	1.368e+05	1.816e+05	2.169e+05	
147	1 90	23.27	-508.38-842.07	-823.08	-527.36	-77.29	7.670e+05	4.740e+05	7.668e+05	4.742e+05	7980.15
62	23.95	955.59523.87	887.14	592.32	157.68	2.249e+05	-5.933e+05	-3.201e+05	-4.840e+04	-3.859e+05	
181	17.32	-131.61-527.81	-469.06	-190.36	140.81	4.615e+05	-1.363e+05	1.775e+05	1.477e+05	-2.985e+05	
210	11.13	493.66158.92	443.71	208.87	-119.27	3.272e+05	6.487e+04	2.697e+05	1.223e+05	-1.085e+05	
147	2 90	17.58	-401.05-630.67	-624.20	-407.52	-38.00	5.806e+05	3.560e+05	5.797e+05	3.569e+05	-1.416e+04
62	17.58	727.73417.35	691.36	453.73	99.84	1.453e+05	-4.467e+05	-2.563e+05	-4.510e+04	-2.765e+05	
181	12.84	-107.13-392.43	-351.30	-148.26	100.21	3.408e+05	-1.056e+05	1.261e+05	1.091e+05	-2.230e+05	
210	8.54	382.16127.52	350.83	158.85	-83.65	2.482e+05	3.840e+04	1.971e+05	8.953e+04	-9.007e+04	
148	1 62	24.27	-616.22-945.54	-944.68	-617.07	-16.78	7.939e+05	4.135e+05	7.685e+05	4.389e+05	-9.491e+04
63	24.22	1036.94629.02	1006.72	659.24	106.84	5.622e+04	-6.839e+05	-4.717e+05	-1.560e+05	-3.347e+05	
182	15.97	-194.76-549.30	-521.19	-222.87	95.78	3.927e+05	-1.924e+05	9.573e+04	1.046e+05	-2.926e+05	
181	11.91	538.30214.82	521.01	232.11	-72.77	3.199e+05	-4.348e+04	2.010e+05	7.535e+04	-1.705e+05	
148	2 62	18.64	-476.23-718.04	-717.74	-476.53	8.55	6.119e+05	2.989e+05	5.810e+05	3.297e+05	-9.331e+04
63	18.01	796.02492.53	783.34	505.22	60.73	1.655e+04	-5.173e+05	-3.729e+05	-1.278e+05	-2.372e+05	



182	11.81	-155.07-409.60	-391.41	-173.26	65.58	2.881e+05	-1.490e+05	6.319e+04	7.586e+04	-2.184e+05
181	9.20	419.73167.30	410.29	176.73	-47.88	2.438e+05	-4.622e+04	1.442e+05	5.338e+04	-1.377e+05
149 1	63 25.45	-673.56-1030.33	-1024.11	-679.77	46.68	8.221e+05	2.954e+05	7.345e+05	3.830e+05	-1.961e+05
	64 24.53	1088.72690.88	1082.51	697.08	49.30	-1.134e+05	-7.487e+05	-6.043e+05	-2.579e+05	-2.663e+05
183	13.95	-238.91-556.29	-549.59	-245.61	45.64	3.058e+05	-2.419e+05	7878.20	5.605e+04	-2.728e+05
182	12.70	577.49243.70	576.04	245.15	-21.96	3.040e+05	-1.580e+05	1.216e+05	2.432e+04	-2.258e+05
149 2	63 19.82	-512.42-791.19	-778.84	-524.77	57.37	6.383e+05	2.034e+05	5.549e+05	2.868e+05	-1.712e+05
	64 18.50	842.52533.45	841.64	534.33	16.47	-1.123e+05	-5.688e+05	-4.749e+05	-2.063e+05	-1.845e+05
183	10.27	-187.52-416.48	-413.25	-190.75	27.01	2.214e+05	-1.873e+05	-4385.77	3.854e+04	-2.032e+05
182	9.87	452.92186.47	452.63	186.76	-8.79	2.322e+05	-1.350e+05	8.311e+04	1.414e+04	-1.803e+05
150 1	64 26.69	-680.06-1089.67	-1057.26	-712.47	110.57	8.292e+05	1.460e+05	6.662e+05	3.091e+05	-2.912e+05
	65 24.91	1111.27703.51	1110.88	703.89	-12.56	-2.728e+05	-7.883e+05	-7.114e+05	-3.497e+05	-1.836e+05
184	12.66	-257.45-552.75	-552.56	-257.64	-7.41	2.051e+05	-2.827e+05	-8.190e+04	4285.85	-2.401e+05
183	13.58	608.85244.53	606.18	247.20	31.07	2.772e+05	-2.707e+05	3.505e+04	-2.846e+04	-2.721e+05
150 2	64 21.01	-511.23-843.04	-804.34	-549.94	106.51	6.458e+05	8.638e+04	5.023e+05	2.299e+05	-2.443e+05
	65 19.06	866.43536.62	863.46	539.58	-31.12	-2.319e+05	-6.023e+05	-5.573e+05	-2.769e+05	-1.209e+05
184	9.62	-199.13-416.41	-415.53	-200.01	-13.80	1.443e+05	-2.190e+05	-7.345e+04	-1276.31	-1.781e+05
183	10.90	479.33184.81	475.81	188.33	32.00	2.120e+05	-2.220e+05	1.652e+04	-2.647e+04	-2.159e+05
151 1214	27.30	494.20-225.24	363.28	-94.33	277.58	4.679e+05	-6.414e+05	-6.559e+04	-1.080e+05	-5.543e+05
	215 23.27	-64.96-474.17	-330.93	-208.19	195.18	4.409e+05	-5.485e+05	-2.181e+05	1.106e+05	-4.666e+05
	66 31.47	727.74-443.95	727.71	-443.92	5.84	3.420e+05	-7.999e+05	-7.447e+05	2.869e+05	-2.449e+05
	65 40.23	304.66-880.58	-756.62	180.70	362.71	9.753e+05	-5.745e+05	5.616e+05	-1.608e+05	-6.856e+05
151 2214	21.34	387.73-194.34	286.64	-93.25	220.50	3.648e+05	-4.983e+05	-6.164e+04	-7.184e+04	-4.315e+05
	215 17.80	-67.13-361.08	-247.37	-180.83	143.16	3.382e+05	-4.209e+05	-1.789e+05	9.627e+04	-3.537e+05
	66 24.29	564.51-360.21	564.20	-359.90	-16.89	2.663e+05	-6.100e+05	-5.797e+05	2.360e+05	-1.602e+05
	65 31.91	232.02-689.05	-577.60	120.57	300.39	7.747e+05	-4.579e+05	4.252e+05	-1.084e+05	-5.556e+05
152 1215	27.74	461.24-314.33	337.78	-190.87	283.74	3.957e+05	-7.109e+05	-1.850e+05	-1.302e+05	-5.526e+05
	216 21.15	-145.35-466.23	-313.88	-297.70	160.24	3.253e+05	-5.782e+05	-3.275e+05	7.462e+04	-4.045e+05
	67 30.44	667.09-517.48	653.55	-503.94	-125.93	2.990e+05	-7.843e+05	-7.793e+05	2.940e+05	-7.311e+04
	66 43.75	297.05-954.85	-739.89	82.09	472.12	1.009e+06	-6.889e+05	4.461e+05	-1.257e+05	-7.995e+05
152 2215	21.73	362.70-263.20	267.02	-167.51	225.24	3.103e+05	-5.527e+05	-1.535e+05	-8.894e+04	-4.303e+05
	216 16.27	-125.43-358.50	-234.25	-249.69	116.28	2.508e+05	-4.453e+05	-2.631e+05	6.863e+04	-3.060e+05
	67 23.94	522.21-421.13	507.15	-406.07	-118.25	2.424e+05	-6.072e+05	-6.063e+05	2.415e+05	-2.803e+04
	66 34.79	230.64-750.65	-564.73	44.72	384.55	8.038e+05	-5.488e+05	3.364e+05	-8.140e+04	-6.432e+05
153 1216	27.30	410.17-393.89	298.06	-281.79	278.52	3.112e+05	-7.541e+05	-2.974e+05	-1.455e+05	-5.272e+05
	217 18.76	-202.88-455.89	-281.79	-376.98	117.21	2.039e+05	-5.909e+05	-4.236e+05	3.666e+04	-3.240e+05
	68 30.81	607.44-600.68	551.05	-544.29	-254.85	3.005e+05	-7.903e+05	-7.800e+05	2.901e+05	1.056e+05
	67 46.37	298.67-1010.78	-689.47	-22.64	563.46	1.017e+06	-7.900e+05	3.101e+05	-8.332e+04	-8.817e+05
153 2216	21.44	323.68-324.66	236.47	-237.45	221.22	2.463e+05	-5.869e+05	-2.399e+05	-1.007e+05	-4.107e+05
	217 14.56	-162.78-357.46	-209.57	-310.67	83.18	1.594e+05	-4.570e+05	-3.370e+05	3.942e+04	-2.440e+05
	68 24.63	479.86-488.65	428.31	-437.10	-217.41	2.525e+05	-6.207e+05	-6.068e+05	2.385e+05	1.094e+05
	67 36.94	235.73-797.52	-525.95	-35.84	454.81	8.117e+05	-6.287e+05	2.317e+05	-4.876e+04	-7.064e+05
154 1218	16.55	-215.89-463.08	-442.67	-236.29	-68.03	8.712e+04	-5.910e+05	-1581.98	-5.023e+05	2.287e+05
	69 32.62	551.40-689.64	-563.29	425.05	375.29	3.487e+05	-8.202e+05	2.755e+05	-7.470e+05	-2.833e+05
	68 47.91	308.11-1045.06	-129.09	-607.86	-632.82	9.961e+05	-8.716e+05	-3.524e+04	1.597e+05	9.288e+05
	217 26.03	343.43-460.48	-363.25	246.19	-262.13	2.191e+05	-7.699e+05	-1.530e+05	-3.978e+05	4.792e+05



154	2218	13.00	-164.14-371.64	-361.20	-174.57	-45.35	7.206e+04	-4.596e+05	1.001e+04	-3.976e+05	1.707e+05
69	26.33	439.28-559.61	-451.71	331.38	310.06	2.963e+05	-6.504e+05	2.272e+05	-5.814e+05	-2.461e+05	
68	38.22	246.26-827.16	-117.73	-463.17	-508.16	7.975e+05	-6.933e+05	-1.177e+04	1.160e+05	7.426e+05	
217	20.51	272.56-376.11	-300.11	196.57	-208.62	1.765e+05	-6.002e+05	-1.065e+05	-3.172e+05	53.738e+05	
155	1219	15.10	-178.79-492.48	-491.78	-179.49	-14.79	-1.095e+04	-5.877e+05	-3.840e+04	-5.602e+05	1.228e+05
70	35.51	500.33-779.23	-560.19	281.29	481.97	4.339e+05	-8.652e+05	2.507e+05	-6.821e+05	-4.521e+05	
69	48.26	324.45-1055.70	-232.37	-498.89	-677.09	9.478e+05	-9.298e+05	1.624e+04	1730.59	9.388e+05	
218	24.05	264.11-511.17	-431.61	184.55	-235.27	1.253e+05	-7.598e+05	-1.526e+05	-4.818e+05	4.108e+05	
155	2219	12.06	-130.81-399.05	-398.97	-130.88	-4.40	-278.14	-4.602e+05	-1.832e+04	-4.421e+05	58.927e+04
70	28.75	401.51-630.04	-449.33	220.79	392.12	3.657e+05	-6.890e+05	2.082e+05	-5.315e+05	-3.760e+05	
69	38.58	261.55-838.07	-197.18	-379.34	-542.21	7.617e+05	-7.393e+05	2.782e+04	-5461.76	7.503e+05	
218	19.03	211.74-415.28	-352.70	149.15	-187.95	1.055e+05	-5.935e+05	-1.062e+05	-3.818e+05	53.212e+05	
156	1220	14.97	-110.19-526.05	-522.13	-114.11	40.15	-7.192e+04	-5.952e+05	-7.215e+04	-5.950e+05	1.102e+04
32	38.92	454.64-863.68	-535.16	126.12	570.23	5.406e+05	-9.121e+05	2.169e+05	-5.884e+05	-6.045e+05	
70	47.43	346.90-1042.43	-327.92	-367.61	-694.38	8.745e+05	-9.623e+05	6.896e+04	-1.567e+05	9.115e+05	
219	21.58	176.06-543.99	-483.92	116.00	-199.10	3.716e+04	-7.275e+05	-1.442e+05	-5.461e+05	53.253e+05	
156	2220	12.08	-76.44-426.47	-422.32	-80.59	37.86	-4.425e+04	-4.689e+05	-4.427e+04	-4.689e+05	3305.79
32	31.47	366.94-695.57	-430.07	101.43	460.01	4.498e+05	-7.270e+05	1.822e+05	-4.594e+05	-4.932e+05	
70	38.00	281.01-830.04	-270.68	-278.35	-555.51	7.064e+05	-7.654e+05	6.838e+04	-1.274e+05	7.293e+05	
219	17.18	144.16-440.68	-392.94	96.42	-160.13	3.897e+04	-5.699e+05	-9.972e+04	-4.312e+05	52.554e+05	
157	1221	16.23	-25.82-549.30	-531.87	-43.24	93.90	-8.199e+04	-6.247e+05	-1.016e+05	-6.051e+05	-1.013e+05
71	42.27	414.90-936.76	-489.24	-32.62	636.10	6.539e+05	-9.497e+05	1.757e+05	-4.715e+05	-7.336e+05	
32	45.52	375.04-1006.27	-410.55	-220.68	-684.10	7.811e+05	-9.687e+05	1.199e+05	-3.074e+05	8.484e+05	
220	18.94	83.96-557.74	-517.47	43.69	-155.62	-3.528e+04	-6.805e+05	-1.284e+05	-5.875e+05	52.267e+05	
157	2221	13.11	-11.10-444.78	-429.80	-26.08	79.18	-5.073e+04	-4.929e+05	-6.694e+04	-4.767e+05	-8.309e+04
71	34.08	336.14-751.53	-394.74	-20.65	510.66	5.375e+05	-7.565e+05	1.505e+05	-3.695e+05	-5.925e+05	
32	36.58	304.30-803.86	-334.21	-165.36	-547.61	6.352e+05	-7.709e+05	1.075e+05	-2.432e+05	6.808e+05	
220	15.19	73.43-451.35	-418.73	40.81	-126.70	-1.547e+04	-5.351e+05	-8.752e+04	-4.631e+05	1.796e+05	
158	1222	18.48	65.94-557.70	-522.20	30.44	144.50	-4.447e+04	-6.713e+05	-1.250e+05	-5.908e+05	-2.098e+05
72	45.13	380.02-995.38	-425.20	-190.16	677.59	7.638e+05	-9.688e+05	1.290e+05	-3.340e+05	-8.348e+05	
71	42.76	408.24-951.08	-479.47	-63.37	-647.03	6.734e+05	-9.517e+05	1.685e+05	-4.469e+05	7.520e+05	
221	16.59	-8.28-553.50	-532.31	-29.47	-105.36	-7.875e+04	-6.319e+05	-1.053e+05	-6.053e+05	1.183e+05	
158	2222	14.83	59.54-451.33	-422.39	30.60	118.09	-2.240e+04	-5.282e+05	-8.496e+04	-4.656e+05	-1.665e+05
72	36.28	308.38-795.74	-345.52	-141.84	542.59	6.220e+05	-7.711e+05	1.146e+05	-2.637e+05	-6.704e+05	
71	34.46	330.88-762.50	-387.26	-44.35	-519.11	5.526e+05	-7.581e+05	1.450e+05	-3.505e+05	6.067e+05	
221	13.38	2.44-448.08	-430.17	-15.47	-88.02	-4.821e+04	-4.984e+05	-6.979e+04	-4.768e+05	59.618e+04	
159	1223	21.09	159.13-546.77	-490.99	103.35	190.43	2.492e+04	-7.185e+05	-1.421e+05	-5.515e+05	-3.103e+05
73	47.13	350.77-1032.77	-343.13	-338.87	691.77	8.599e+05	-9.644e+05	7.741e+04	-1.819e+05	-9.029e+05	
72	39.41	446.99-877.97	-528.62	97.64	-583.81	5.588e+05	-9.159e+05	2.112e+05	-5.682e+05	6.260e+05	
222	15.09	-94.38-531.44	-525.28	-100.54	-51.52	-7.676e+04	-5.978e+05	-7.682e+04	-5.977e+05	5631.30	
159	2223	16.81	131.16-442.83	-398.36	86.69	153.45	2.973e+04	-5.633e+05	-9.811e+04	-4.354e+05	-2.439e+05
73	37.78	284.36-822.96	-282.35	-256.25	553.50	6.953e+05	-7.671e+05	7.488e+04	-1.467e+05	-7.227e+05	
72	31.86	361.07-706.60	-425.07	79.53	-470.45	4.640e+05	-7.301e+05	1.778e+05	-4.439e+05	5.097e+05	
222	12.19	-64.12-430.77	-424.75	-70.14	-46.59	-4.766e+04	-4.712e+05	-4.787e+04	-4.710e+05	9492.26	
160	1224	23.58	247.72-517.08	-441.47	172.10	228.29	1.108e+05	-7.527e+05	-1.517e+05	-4.901e+05	-3.972e+05
74	48.07	326.95-1047.97	-249.75	-471.27	678.48	9.352e+05	-9.350e+05	2.506e+04	-2.491e+04	-9.348e+05	



73	35.93	490.26-793.99	-557.03	253.30	-498.17	4.503e+05	-8.682e+05	2.461e+05	-6.641e+05	4.770e+05		
223	14.97	-165.96-498.61	-498.57	-166.00	3.33	-2.287e+04	-5.864e+05	-4.360e+04	-5.657e+05	-1.061e+05		
160	224	18.67	199.16-419.85	-360.27	139.58	182.56	9.452e+04	-5.882e+05	-1.054e+05	-3.882e+05	-3.107e+05	
74	38.45	263.96-832.57	-210.52	-358.09	543.28	7.522e+05	-7.435e+05	3.462e+04	-2.596e+04	-7.472e+05		
73	29.10	393.93-641.58	-446.91	199.26	-404.58	3.788e+05	-6.918e+05	2.047e+05	-5.176e+05	3.951e+05		
223	11.98	-120.43-404.27	-404.21	-120.50	-4.40	-8950.83	-4.597e+05	-2.231e+04	-4.464e+05	-7.644e+04		
161	1225	25.61	327.84-469.13	-375.14	233.85	257.04	2.033e+05	-7.657e+05	-1.534e+05	-4.090e+05	-4.673e+05	
75	47.84	309.23-1039.50	-147.67	-582.60	638.34	9.854e+05	-8.801e+05	-2.679e+04	1.322e+05	-9.293e+05		
74	32.85	538.69-703.86	-563.28	398.11	-393.59	3.607e+05	-8.203e+05	2.722e+05	-7.318e+05	3.109e+05		
224	16.22	-209.76-466.09	-452.58	-223.27	57.28	7.026e+04	-5.883e+05	-7444.93	-5.106e+05	-2.125e+05		
161	2225	20.19	260.60-382.77	-309.25	187.08	204.68	1.644e+05	-5.970e+05	-1.068e+05	-3.258e+05	-3.646e+05	
75	38.19	247.71-823.45	-132.00	-443.74	512.40	7.896e+05	-7.000e+05	-5262.13	9.487e+04	-7.431e+05		
74	26.56	429.84-570.90	-451.72	310.66	-324.13	3.063e+05	-6.513e+05	2.247e+05	-5.698e+05	2.673e+05		
224	12.78	-158.02-375.35	-368.82	-164.55	37.10	5.954e+04	-4.580e+05	5498.22	-4.040e+05	-1.583e+05		
162	1	76	46.41	298.39-1007.88	-668.01	-41.49	-573.11	1.008e+06	-8.015e+05	2.822e+05	-7.569e+04	8.869e+05
75	30.77	591.84-613.39	525.61	-547.16	274.65	3.051e+05	-7.855e+05	-7.685e+05	2.881e+05	-1.350e+05		
225	18.32	-206.38-452.99	-269.97	-389.40	-107.88	1.842e+05	-5.889e+05	-4.349e+05	3.014e+04	3.088e+05		
226	26.97	395.75-404.77	285.97	-294.99	-275.37	2.947e+05	-7.536e+05	-3.116e+05	-1.473e+05	5.177e+05		
162	2	76	36.99	236.21-795.96	-509.43	-50.32	-462.22	8.053e+05	-6.379e+05	2.103e+05	-4.288e+04	7.105e+05
75	24.66	468.36-498.95	408.74	-439.32	232.64	2.573e+05	-6.184e+05	-5.980e+05	2.370e+05	-1.320e+05		
225	14.24	-163.58-357.13	-200.48	-320.23	-76.03	1.445e+05	-4.559e+05	-3.457e+05	3.441e+04	2.324e+05		
226	21.19	312.61-333.04	227.17	-247.60	-218.78	2.337e+05	-5.866e+05	-2.509e+05	-1.021e+05	4.034e+05		
163	1	77	43.90	295.56-955.22	-723.91	64.25	-485.61	1.003e+06	-7.034e+05	4.188e+05	-1.196e+05	8.094e+05
76	30.10	648.88-527.96	630.35	-509.43	146.50	2.949e+05	-7.744e+05	-7.727e+05	2.931e+05	4.311e+04		
226	20.68	-154.97-460.96	-304.15	-311.79	-152.95	3.041e+05	-5.784e+05	-3.418e+05	6.750e+04	3.909e+05		
227	27.53	448.43-326.71	326.21	-204.49	-282.49	3.791e+05	-7.151e+05	-2.023e+05	-1.338e+05	5.460e+05		
163	2	77	34.93	230.26-751.69	-552.43	31.01	-394.91	7.991e+05	-5.603e+05	3.154e+05	-7.665e+04	6.508e+05
76	23.75	508.86-429.85	489.30	-410.30	134.06	2.409e+05	-6.012e+05	-6.011e+05	2.408e+05	4963.70		
226	15.93	-131.67-355.62	-226.77	-260.52	-110.70	2.348e+05	-4.458e+05	-2.741e+05	6.314e+04	2.955e+05		
227	21.57	352.86-272.72	258.13	-177.98	-224.25	2.976e+05	-5.560e+05	-1.668e+05	-9.167e+04	4.252e+05		
164	1213	25.97	507.66-130.70	373.21	3.74	260.29	5.239e+05	-5.484e+05	5.536e+04	-7.981e+04	-5.319e+05	
214	24.82	24.23-468.81	-332.13	-112.45	220.70	5.430e+05	-5.005e+05	-1.003e+05	1.428e+05	-5.074e+05		
65	33.43	785.73-382.62	769.98	-366.87	134.71	4.167e+05	-8.253e+05	-6.776e+05	2.690e+05	-4.020e+05		
64	36.15	323.17-793.31	-739.01	268.86	240.16	9.194e+05	-4.554e+05	6.510e+05	-1.870e+05	-5.449e+05		
164	2213	20.27	397.62-121.15	294.28	-17.81	207.20	4.069e+05	-4.257e+05	3.140e+04	-5.017e+04	-4.143e+05	
214	18.92	-0.33-355.16	-248.30	-107.19	162.79	4.155e+05	-3.827e+05	-8.835e+04	1.211e+05	-3.851e+05		
65	25.40	604.19-308.11	596.72	-300.63	82.25	3.159e+05	-6.216e+05	-5.280e+05	2.223e+05	-2.810e+05		
64	28.54	241.16-616.81	-564.05	188.39	206.12	7.277e+05	-3.622e+05	4.940e+05	-1.285e+05	-4.473e+05		
165	1212	23.86	501.43-35.24	366.99	99.19	232.54	5.612e+05	-4.360e+05	1.721e+05	-4.699e+04	-4.864e+05	
213	25.62	114.20-446.29	-317.52	-14.56	235.78	6.254e+05	-4.350e+05	2.042e+04	1.699e+05	-5.249e+05		
64	35.72	836.64-334.42	778.21	-275.98	254.98	5.068e+05	-8.466e+05	-5.809e+05	2.411e+05	-5.376e+05		
63	32.00	354.43-699.61	-688.02	342.83	109.95	8.498e+05	-3.430e+05	7.101e+05	-2.033e+05	-3.836e+05		
165	2212	18.58	392.14-47.03	289.49	55.62	185.86	4.345e+05	-3.382e+05	1.212e+05	-2.492e+04	-3.794e+05	
213	19.46	67.85-336.80	-237.06	-31.89	174.39	4.777e+05	-3.312e+05	4520.83	1.419e+05	-3.986e+05		
64	26.83	638.19-265.87	603.04	-230.72	174.76	3.791e+05	-6.319e+05	-4.536e+05	2.008e+05	-3.853e+05		
63	25.03	259.61-539.13	-524.82	245.30	105.95	6.685e+05	-2.701e+05	5.394e+05	-1.410e+05	-3.233e+05		



166 1211 21.12	477.0355.86	344.90	187.99	195.42	5.786e+05	-3.104e+05	2.792e+05	-1.103e+04	-4.201e+05
212 25.57	199.47-406.07	-287.97	81.37	239.93	6.836e+05	-3.546e+05	1.384e+05	1.906e+05	-5.184e+05
63 37.79	876.12-299.31	751.95	-175.15	361.29	5.983e+05	-8.533e+05	-4.594e+05	2.044e+05	-6.455e+05
62 28.44	400.08-606.84	-606.35	399.59	-22.12	7.802e+05	-2.530e+05	7.361e+05	-2.089e+05	-2.089e+05
166 2211 16.40	372.1724.25	272.50	123.92	157.30	4.465e+05	-2.402e+05	2.036e+05	2743.47	-3.284e+05
212 19.37	132.76-305.19	-214.33	41.90	177.58	5.214e+05	-2.683e+05	9.530e+04	1.578e+05	-3.936e+05
63 28.16	663.43-233.75	582.84	-153.16	256.54	4.450e+05	-6.326e+05	-3.602e+05	1.725e+05	-4.683e+05
62 21.87	288.98-462.03	-462.01	288.96	4.36	6.069e+05	-1.928e+05	5.594e+05	-1.454e+05	-1.889e+05
167 1240 18.03	438.99135.32	308.11	266.20	150.38	5.770e+05	-1.788e+05	3.717e+05	2.650e+04	-3.362e+05
211 24.67	275.57-349.36	-245.09	171.30	233.00	7.149e+05	-2.628e+05	2.482e+05	2.039e+05	-4.884e+05
62 39.26	900.35-276.68	692.45	-68.78	448.87	6.807e+05	-8.393e+05	-3.190e+05	1.604e+05	-7.212e+05
90 26.26	460.27-521.65	-498.09	436.70	-150.28	7.291e+05	-2.046e+05	7.282e+05	-2.037e+05	-2.895e+04
167 2240 13.91	340.4287.86	244.20	184.09	122.65	4.436e+05	-1.373e+05	2.747e+05	3.161e+04	-2.638e+05
211 18.62	190.81-261.07	-181.35	111.08	172.25	5.444e+05	-1.966e+05	1.797e+05	1.681e+05	-3.705e+05
62 29.08	677.23-211.49	537.07	-71.34	323.90	5.049e+05	-6.184e+05	-2.522e+05	1.387e+05	-5.266e+05
90 19.69	330.03-391.25	-378.72	317.51	-94.22	5.570e+05	-1.450e+05	5.534e+05	-1.414e+05	-5.048e+04
168 1 89 26.03	532.90-448.67	452.61	-368.38	269.01	7.117e+05	-2.124e+05	-1.880e+05	6.872e+05	-1.484e+05
239 15.02	400.20188.80	330.44	258.57	-99.40	5.603e+05	-5.067e+04	6.380e+04	4.458e+05	2.384e+05
240 22.96	338.88-278.56	251.51	-191.20	-215.19	7.185e+05	-1.644e+05	2.093e+05	3.448e+05	4.362e+05
90 39.85	906.97-265.55	38.68	602.74	-513.97	7.465e+05	-8.019e+05	1.109e+05	-1.663e+05	7.617e+05
168 2 89 19.02	381.85-331.05	329.75	-278.95	185.55	5.330e+05	-1.404e+05	-1.292e+05	5.219e+05	-8.593e+04
239 11.45	304.35135.24	233.50	206.09	-83.44	4.284e+05	-3.631e+04	6.030e+04	3.318e+05	1.886e+05
240 17.25	239.12-206.22	172.78	-139.89	-158.56	5.461e+05	-1.198e+05	1.722e+05	2.541e+05	3.304e+05
90 29.38	677.89-198.51	11.32	468.07	-373.98	5.529e+05	-5.870e+05	1.006e+05	-1.347e+05	5.577e+05
169 1 88 27.64	613.04-389.54	446.52	-223.02	373.12	7.272e+05	-2.739e+05	-1.623e+05	6.156e+05	-3.151e+05
238 13.12	388.06188.24	377.52	198.78	-44.67	5.379e+05	6.007e+04	9.938e+04	4.986e+05	1.313e+05
239 20.59	386.35-196.74	318.33	-128.72	-187.18	6.960e+05	-6.507e+04	2.067e+05	4.242e+05	3.646e+05
89 39.46	894.54-265.16	142.12	487.26	-553.57	7.911e+05	-7.410e+05	5.838e+04	-8323.43	7.653e+05
169 2 88 19.92	441.09-283.16	325.07	-167.14	265.64	5.376e+05	-1.804e+05	-1.095e+05	4.668e+05	-2.141e+05
238 9.93	283.56146.26	269.72	160.10	-41.34	4.076e+05	5.243e+04	8.767e+04	3.723e+05	1.062e+05
239 15.37	275.31-142.96	224.18	-91.82	-137.01	5.274e+05	-4.203e+04	1.702e+05	3.151e+05	2.753e+05
89 28.96	664.45-194.32	90.88	379.25	-404.45	5.852e+05	-5.382e+05	6.024e+04	-1.321e+04	5.605e+05
170 1 87 30.43	693.95-343.67	418.65	-68.36	458.11	7.595e+05	-3.702e+05	-1.277e+05	5.171e+05	-4.638e+05
237 12.25	405.76131.20	405.31	131.65	11.19	5.291e+05	1.308e+05	1.318e+05	5.281e+05	1.957e+04
238 17.79	416.06-107.72	368.78	-60.44	-150.10	6.516e+05	2.789e+04	1.963e+05	4.832e+05	2.769e+05
88 38.08	863.31-274.70	236.91	351.70	-566.10	8.123e+05	-6.592e+05	5177.84	1.480e+05	7.323e+05
170 2 87 21.89	502.59-247.12	303.64	-48.17	331.02	5.591e+05	-2.511e+05	-8.293e+04	3.910e+05	-3.286e+05
237 9.21	291.11108.45	291.10	108.47	1.63	3.965e+05	1.111e+05	1.126e+05	3.951e+05	2.023e+04
238 13.17	297.89-74.21	262.99	-39.31	-108.49	4.916e+05	3.109e+04	1.622e+05	3.605e+05	2.078e+05
88 27.80	637.18-198.43	163.79	274.96	-414.09	6.000e+05	-4.737e+05	1.932e+04	1.070e+05	5.351e+05
171 1 78 40.49	302.20-885.23	-747.95	164.92	-379.69	9.710e+05	-5.914e+05	5.361e+05	-1.565e+05	7.002e+05
77 30.90	708.02-451.95	707.83	-451.76	14.73	3.304e+05	-7.874e+05	-7.441e+05	2.871e+05	2.157e+05
227 22.84	-76.62-470.88	-324.38	-223.12	-190.51	4.195e+05	-5.520e+05	-2.355e+05	1.030e+05	4.553e+05
228 27.22	483.68-238.39	352.90	-107.61	-278.08	4.519e+05	-6.509e+05	-8.576e+04	-1.132e+05	5.512e+05
171 2 78 32.14	230.96-693.44	-570.92	108.45	-313.44	7.719e+05	-4.714e+05	4.056e+05	-1.051e+05	5.668e+05
77 23.92	550.07-367.10	548.90	-365.93	32.70	2.588e+05	-6.018e+05	-5.792e+05	2.362e+05	1.377e+05



227	17.49	-75.51-359.14	-242.33	-192.32	-139.60	3.220e+05	-4.239e+05	-1.924e+05	9.045e+04	3.451e+05
228	21.29	379.63-204.44	278.66	-103.46	-220.86	3.526e+05	-5.057e+05	-7.716e+04	-7.589e+04	4.292e+05
172 1	79 36.51	319.97-803.07	-739.24	256.14	-260.01	9.177e+05	-4.735e+05	6.291e+05	-1.849e+05	5.641e+05
	78 32.78	766.36-388.23	754.81	-376.69	-114.87	4.000e+05	-8.141e+05	-6.842e+05	2.702e+05	3.752e+05
228	24.49	12.69-469.80	-329.86	-127.25	-218.95	5.225e+05	-5.080e+05	-1.206e+05	1.351e+05	4.991e+05
229	26.06	500.24-143.90	364.98	-8.64	-262.35	5.094e+05	-5.634e+05	3.280e+04	-8.670e+04	5.331e+05
172 2	79 28.85	239.58-625.20	-564.23	178.61	-221.37	7.272e+05	-3.770e+05	4.771e+05	-1.269e+05	4.621e+05
	78 24.96	590.04-313.17	585.05	-308.17	-66.99	3.042e+05	-6.141e+05	-5.331e+05	2.232e+05	2.604e+05
228	18.68	-8.87-356.24	-246.54	-118.57	-161.47	3.999e+05	-3.887e+05	-1.039e+05	1.152e+05	3.788e+05
229	20.34	391.91-131.29	287.95	-27.33	-208.77	3.959e+05	-4.374e+05	1.404e+04	-5.547e+04	4.152e+05
173 1	80 32.42	350.54-714.69	-698.13	333.99	-131.75	8.510e+05	-3.607e+05	6.937e+05	-2.034e+05	4.072e+05
	79 35.14	820.00-338.12	769.41	-287.54	-236.70	4.879e+05	-8.403e+05	-5.957e+05	2.433e+05	5.148e+05
229	25.44	103.97-452.72	-320.37	-28.38	-236.99	6.073e+05	-4.469e+05	-2030.67	1.625e+05	5.207e+05
230	24.11	497.93-47.79	362.00	88.14	-236.01	5.493e+05	-4.563e+05	1.483e+05	-5.527e+04	4.924e+05
173 2	80 25.41	257.56-551.66	-532.61	238.50	-122.71	6.705e+05	-2.848e+05	5.268e+05	-1.411e+05	3.415e+05
	79 26.42	626.11-269.43	596.27	-239.60	-160.71	3.654e+05	-6.279e+05	-4.650e+05	2.025e+05	3.678e+05
229	19.33	60.17-341.93	-239.24	-42.52	-175.34	4.640e+05	-3.406e+05	-1.276e+04	1.362e+05	3.953e+05
230	18.78	389.46-56.68	285.66	47.12	-188.50	4.255e+05	-3.539e+05	1.029e+05	-3.129e+04	3.839e+05
174 1	81 28.86	395.02-626.54	-626.54	395.01	-0.53	7.834e+05	-2.674e+05	7.273e+05	-2.113e+05	2.364e+05
	80 37.39	864.37-301.60	751.03	-188.26	-345.41	5.794e+05	-8.543e+05	-4.825e+05	2.075e+05	6.284e+05
230	25.57	191.14-418.34	-296.35	69.14	-243.87	6.695e+05	-3.706e+05	1.150e+05	1.839e+05	5.189e+05
231	21.52	477.9744.65	344.20	178.42	-200.18	5.702e+05	-3.349e+05	2.556e+05	-2.028e+04	4.310e+05
174 2	81 22.26	286.05-478.16	-477.54	285.43	-21.78	6.108e+05	-2.054e+05	5.527e+05	-1.472e+05	2.100e+05
	80 27.89	655.09-236.18	582.14	-163.23	-244.33	4.311e+05	-6.340e+05	-3.779e+05	1.750e+05	4.552e+05
230	19.38	126.48-314.73	-220.76	32.50	-180.64	5.108e+05	-2.809e+05	7.723e+04	1.527e+05	3.940e+05
231	16.71	372.9815.55	271.97	116.56	-160.94	4.404e+05	-2.593e+05	1.854e+05	-4378.82	3.367e+05
175 1	82 26.55	453.21-544.22	-527.53	436.52	127.95	7.322e+05	-2.118e+05	7.285e+05	-2.081e+05	5.902e+04
	81 39.09	895.27-277.73	700.72	-83.17	-436.30	6.636e+05	-8.486e+05	-3.495e+05	1.646e+05	7.110e+05
231	24.86	269.44-367.21	-258.86	161.09	-239.26	7.061e+05	-2.823e+05	2.253e+05	1.985e+05	4.940e+05
232	18.52	444.14126.55	312.47	258.22	-156.46	5.726e+05	-2.056e+05	3.502e+05	1.676e+04	3.516e+05
175 2	82 20.00	325.52-409.54	-401.37	317.36	77.05	5.612e+05	-1.524e+05	5.536e+05	-1.447e+05	7.360e+04
	81 28.99	674.00-212.95	543.43	-82.39	-314.25	4.923e+05	-6.261e+05	-2.757e+05	1.419e+05	5.188e+05
231	18.78	186.17-274.87	-191.93	103.23	-177.09	5.379e+05	-2.119e+05	1.621e+05	1.639e+05	3.749e+05
232	14.30	344.7380.76	247.55	177.94	-127.31	4.406e+05	-1.583e+05	2.582e+05	2.412e+04	2.756e+05
176 1	82 39.95	908.94-265.22	22.97	620.75	505.30	7.326e+05	-8.190e+05	1.164e+05	-2.028e+05	-7.592e+05
	232 23.35	334.94-301.07	243.31	-209.44	223.34	7.160e+05	-1.861e+05	2.057e+05	3.242e+05	-4.472e+05
233	15.48	406.47185.76	323.94	268.28	106.79	5.594e+05	-7.710e+04	5.438e+04	4.280e+05	-2.577e+05
	83 26.06	522.88-471.62	456.62	-405.37	-247.99	7.125e+05	-2.090e+05	-1.939e+05	6.974e+05	1.170e+05
176 2	82 29.48	680.09-198.92	-0.74	481.91	367.32	5.427e+05	-6.006e+05	1.049e+05	-1.628e+05	-5.558e+05
	232 17.56	236.15-223.58	166.48	-153.92	164.84	5.444e+05	-1.367e+05	1.695e+05	2.382e+05	-3.388e+05
233	11.83	310.45131.62	228.50	213.56	89.10	4.283e+05	-5.719e+04	5.306e+04	3.180e+05	-2.034e+05
	83 19.13	374.88-349.46	332.82	-307.40	-169.40	5.353e+05	-1.395e+05	-1.338e+05	5.296e+05	6.178e+04
177 1	83 39.79	903.15-262.78	125.70	514.67	549.57	7.811e+05	-7.646e+05	6.497e+04	-4.842e+04	-7.707e+05
	233 21.14	384.65-222.63	312.29	-150.27	196.74	6.999e+05	-8.708e+04	2.053e+05	4.076e+05	-3.803e+05
234	13.33	389.08197.32	372.82	213.57	53.41	5.382e+05	3.831e+04	9.086e+04	4.857e+05	-1.533e+05
	84 27.39	599.76-410.56	454.45	-265.26	-354.53	7.255e+05	-2.596e+05	-1.694e+05	6.354e+05	2.841e+05





177	2	83	29.24	671.76-193.16	78.29	400.31	401.37	5.780e+05	-5.567e+05	6.532e+04	-4.403e+04	-5.647e+05
		233	15.81	274.04-162.90	219.54	-108.40	144.37	5.307e+05	-5.925e+04	1.691e+05	3.023e+05	-2.874e+05
		234	10.10	286.21151.36	266.10	171.48	48.04	4.087e+05	3.485e+04	8.112e+04	3.624e+05	-1.231e+05
		84	19.78	431.28-299.76	331.14	-199.62	-251.35	5.374e+05	-1.705e+05	-1.150e+05	4.819e+05	1.903e+05
178	1	84	38.59	876.94-269.52	220.50	386.93	567.16	8.066e+05	-6.868e+05	1.258e+04	1.072e+05	-7.452e+05
		234	18.45	416.42-135.25	364.93	-83.76	160.47	6.611e+05	7876.00	1.971e+05	4.719e+05	-2.963e+05
		235	12.32	402.63150.61	402.62	150.61	-1.40	5.256e+05	1.200e+05	1.246e+05	5.210e+05	-4.296e+04
		85	29.95	678.05-361.09	429.97	-113.00	-443.00	7.572e+05	-3.477e+05	-1.357e+05	5.451e+05	4.351e+05
178	2	84	28.21	648.33-195.07	151.22	302.05	414.90	5.960e+05	-4.953e+05	2.502e+04	7.568e+04	-5.450e+05
		234	13.69	298.20-95.40	260.04	-57.24	116.47	4.993e+05	1.534e+04	1.628e+05	3.518e+05	-2.228e+05
		235	9.28	289.23122.84	289.02	123.05	5.88	3.947e+05	1.020e+05	1.071e+05	3.896e+05	-3.821e+04
		85	21.55	490.38-260.58	312.30	-82.50	-319.40	5.578e+05	-2.343e+05	-8.902e+04	4.125e+05	3.065e+05
179	1	85	36.44	831.38-284.93	303.34	243.11	557.34	8.088e+05	-5.902e+05	-3.862e+04	2.573e+05	-6.837e+05
		235	15.61	429.41-43.19	398.93	-12.71	116.08	6.073e+05	8.871e+04	1.816e+05	5.144e+05	-1.988e+05
		236	12.73	420.9773.15	412.05	82.07	-54.99	5.445e+05	1.421e+05	1.542e+05	5.324e+05	6.858e+04
		86	32.98	751.41-322.53	384.00	44.89	-509.50	7.899e+05	-4.534e+05	-9.395e+04	4.305e+05	5.636e+05
179	2	85	26.49	610.70-204.34	214.93	191.42	407.35	5.966e+05	-4.198e+05	-1.436e+04	1.911e+05	-4.977e+05
		235	11.45	308.01-24.40	286.19	-2.58	82.32	4.561e+05	7.934e+04	1.509e+05	3.845e+05	-1.478e+05
		236	9.24	301.6664.92	296.26	70.32	-35.34	4.066e+05	1.217e+05	1.298e+05	3.984e+05	4.759e+04
		86	23.81	547.14-231.24	276.94	38.96	-370.56	5.816e+05	-3.143e+05	-5.693e+04	3.243e+05	4.054e+05
180	1	86	33.57	768.82-309.26	370.29	89.27	520.40	7.908e+05	-4.808e+05	-8.598e+04	3.959e+05	-5.884e+05
		236	13.20	424.3448.31	412.45	60.19	65.78	5.550e+05	1.382e+05	1.597e+05	5.335e+05	-9.214e+04
		237	14.96	427.16-15.90	400.43	10.84	-105.50	5.949e+05	1.035e+05	1.786e+05	5.198e+05	1.769e+05
		87	35.83	814.53-293.83	318.63	202.07	-551.11	8.108e+05	-5.606e+05	-4.621e+04	2.964e+05	6.639e+05
180	2	86	24.26	560.83-221.31	266.44	73.08	378.93	5.823e+05	-3.353e+05	-5.080e+04	2.978e+05	-4.244e+05
		236	9.59	304.1945.91	296.60	53.50	43.62	4.146e+05	1.186e+05	1.340e+05	3.992e+05	-6.570e+04
		237	10.95	306.26-3.41	287.33	15.52	-74.19	4.462e+05	9.106e+04	1.486e+05	3.886e+05	1.309e+05
		87	26.01	597.21-210.68	226.66	159.87	-402.56	5.979e+05	-3.969e+05	-2.022e+04	2.212e+05	4.825e+05
181	1246	27.50	153.53-502.30	-53.74	-295.03	304.91	2.734e+05	-9.125e+05	-3.288e+05	-3.103e+05	-5.929e+05	
		247	23.90	52.84-515.79	4.38	-467.34	158.76	9.454e+04	-9.058e+05	-6.544e+05	-1.569e+05	-4.339e+05
		217	20.14	26.64-483.66	15.01	-472.03	76.14	1.548e+05	-7.032e+05	-6.052e+05	5.676e+04	-2.730e+05
		216	27.43	150.88-531.57	-150.80	-229.88	338.93	4.227e+05	-7.717e+05	-1.978e+05	-1.512e+05	-5.968e+05
181	2246	21.39	119.82-405.34	-34.59	-250.92	239.27	2.094e+05	-7.101e+05	-2.687e+05	-2.320e+05	-4.594e+05	
		247	18.58	42.48-415.83	10.12	-383.46	117.41	7.100e+04	-7.042e+05	-5.192e+05	-1.140e+05	-3.304e+05
		217	15.75	22.80-391.69	16.43	-385.33	50.97	1.230e+05	-5.459e+05	-4.783e+05	5.540e+04	-2.016e+05
		216	21.55	116.81-426.99	-111.12	-199.06	268.32	3.337e+05	-6.032e+05	-1.650e+05	-1.046e+05	-4.675e+05
182	1245	28.77	207.52-436.96	-43.44	-186.00	314.26	4.320e+05	-8.392e+05	-1.665e+05	-2.408e+05	-6.345e+05	
		246	26.11	108.54-466.15	21.69	-379.31	205.84	2.690e+05	-8.705e+05	-5.332e+05	-6.828e+04	-5.202e+05
		216	21.99	89.11-434.52	50.95	-396.36	136.11	2.697e+05	-6.901e+05	-5.149e+05	9.450e+04	-3.708e+05
		215	27.65	199.86-459.28	-134.86	-124.55	329.53	5.107e+05	-7.064e+05	-5.648e+04	-1.393e+05	-6.071e+05
182	2245	22.31	159.40-353.12	-26.67	-167.05	246.46	3.305e+05	-6.530e+05	-1.438e+05	-1.786e+05	-4.914e+05	
		246	20.21	82.66-374.98	23.43	-315.75	153.62	2.040e+05	-6.759e+05	-4.259e+05	-4.586e+04	-3.968e+05
		216	17.03	67.94-350.98	44.07	-327.12	97.09	2.086e+05	-5.330e+05	-4.089e+05	8.443e+04	-2.768e+05
		215	21.65	152.82-369.71	-98.86	-118.04	261.09	4.000e+05	-5.517e+05	-5.623e+04	-9.542e+04	-4.754e+05
183	1244	29.19	259.96-362.49	-30.49	-72.03	310.53	5.741e+05	-7.327e+05	1559.21	-1.602e+05	-6.484e+05	
		245	27.75	170.80-409.84	38.91	-277.96	243.27	4.358e+05	-8.019e+05	-3.901e+05	2.389e+04	-5.832e+05



215	23.69	161.77-382.76	85.37	-306.36	189.11	3.871e+05-6.609e+05-4.031e+05	1.294e+05-4.513e+05				
214	27.10	245.91-374.96	-112.32	-16.73	306.73	5.836e+05-6.176e+05	8.605e+04-1.200e+05-5.917e+05				
183	2244	22.58	197.55-293.65	-16.71	-79.39	243.59	4.391e+05-5.703e+05-1.458e+04-1.166e+05-5.021e+05				
245	21.41	127.72-328.83	36.68	-237.79	182.42	3.314e+05-6.222e+05-3.158e+05	2.504e+04-4.453e+05				
215	18.23	120.75-308.09	70.55	-257.89	137.87	2.965e+05-5.081e+05-3.229e+05	1.113e+05-3.388e+05				
214	21.16	186.35-302.97	-81.52	-35.09	243.56	4.548e+05-4.820e+05	5.341e+04-8.060e+04-4.636e+05				
184	1243	28.71	308.64-282.08	-15.37	41.93	293.97	6.928e+05-5.974e+05	1.674e+05-7.189e+04-6.339e+05			
244	28.61	235.44-347.84	55.40	-167.80	269.44	5.859e+05-7.017e+05-2.315e+05	1.157e+05-6.200e+05				
214	24.98	238.71-327.93	116.80	-206.03	232.85	4.976e+05-6.126e+05-2.750e+05	1.600e+05-5.107e+05				
213	25.79	287.35-282.70	-84.22	88.87	271.57	6.378e+05-5.089e+05	2.230e+05-9.409e+04-5.510e+05				
184	2243	22.17	232.55-229.34	-5.08	8.28	230.85	5.298e+05-4.654e+05	1.130e+05-4.864e+04-4.910e+05			
244	22.01	174.58-278.26	49.36	-153.05	202.54	4.461e+05-5.442e+05-1.938e+05	9.566e+04-4.735e+05				
214	19.11	176.96-262.94	94.73	-180.71	171.50	3.796e+05-4.690e+05-2.243e+05	1.348e+05-3.844e+05				
213	20.08	216.02-229.78	-59.90	46.14	216.50	4.950e+05-3.969e+05	1.587e+05-6.064e+04-4.323e+05				
185	1242	27.35	351.74-199.64	0.85	151.25	265.24	7.824e+05-4.391e+05	3.235e+05	1.989e+04-5.916e+05		
243	28.60	298.45-281.74	70.10	-53.39	283.45	7.119e+05-5.738e+05-6.445e+04	2.026e+05-6.288e+05				
213	25.64	314.04-269.99	143.53	-99.49	265.54	5.936e+05-5.451e+05-1.361e+05	1.846e+05-5.463e+05				
212	23.82	323.37-187.68	-52.23	187.92	225.56	6.711e+05-3.859e+05	3.481e+05-6.295e+04-4.869e+05				
185	2242	21.07	262.91-163.14	7.40	92.38	208.75	5.979e+05-3.429e+05	2.330e+05	2.196e+04-4.584e+05		
243	21.95	220.20-224.57	60.67	-65.05	213.32	5.423e+05-4.451e+05-6.536e+04	1.625e+05-4.804e+05				
213	19.53	232.16-215.62	115.29	-98.75	196.65	4.517e+05-4.155e+05-1.175e+05	1.537e+05-4.119e+05				
212	18.47	241.03-154.00	-35.29	122.33	181.11	5.189e+05-3.006e+05	2.550e+05-3.669e+04-3.829e+05				
186	1241	25.21	388.40-119.63	17.54	251.23	225.55	8.389e+05-2.654e+05	4.623e+05	1.112e+05-5.235e+05		
242	27.69	356.24-213.47	82.42	60.36	284.64	8.077e+05-4.237e+05	1.029e+05	2.810e+05-6.092e+05			
212	25.60	382.65-209.70	164.30	8.64	285.76	6.696e+05-4.606e+05	6767.31	2.022e+05-5.566e+05			
211	21.36	354.42-96.08	-17.82	276.16	170.68	6.831e+05-2.556e+05	4.554e+05-2.787e+04-4.023e+05				
186	2241	19.36	287.93-98.41	20.24	169.28	178.22	6.406e+05-2.085e+05	3.399e+05	9.222e+04-4.061e+05		
242	21.21	261.86-169.26	70.14	22.46	214.23	6.152e+05-3.290e+05	6.339e+04	2.228e+05-4.653e+05			
212	19.42	282.40-166.71	131.27	-15.58	212.21	5.086e+05-3.489e+05	-7580.06	1.673e+05-4.197e+05			
211	16.47	261.56-80.18	-8.82	190.21	138.90	5.261e+05-1.983e+05	3.375e+05	-9700.71-3.179e+05			
187	1270	22.48	418.54-47.08	33.92	337.54	176.51	8.607e+05-8.500e+04	5.777e+05	1.980e+05-4.331e+05		
241	25.96	405.87-145.53	91.63	168.71	272.99	8.689e+05-2.587e+05	2.628e+05	3.474e+05-5.622e+05			
211	24.82	440.30-148.53	177.97	113.81	292.66	7.216e+05-3.626e+05	1.469e+05	2.121e+05-5.411e+05			
240	18.68	382.49-15.31	17.38	349.80	109.25	6.762e+05-1.266e+05	5.400e+05	9545.63-3.013e+05			
187	2270	17.20	307.53-39.01	32.84	235.67	140.49	6.562e+05-6.870e+04	4.286e+05	1.590e+05-3.365e+05		
241	19.82	297.29-114.25	77.23	105.80	205.27	6.615e+05-2.012e+05	1.864e+05	2.739e+05-4.291e+05			
211	18.74	324.40-117.30	141.78	65.32	217.52	5.471e+05-2.720e+05	1.002e+05	1.749e+05-4.078e+05			
240	14.28	279.06-13.95	18.25	246.85	91.64	5.182e+05-9.650e+04	4.026e+05	1.908e+04-2.402e+05			
188	1239	16.20	410.9446.53	405.58	51.89	-43.88	6.570e+05-1.075e+04	4.757e+04	5.987e+05	1.885e+05	
269	19.48	443.0112.66	406.36	49.32	-120.13	8.488e+05	9.244e+04	2.764e+05	6.648e+05	3.245e+05	
270	23.53	445.13-80.82	267.04	97.27	-248.90	8.936e+05-8.676e+04	3.989e+05	4.080e+05	4.902e+05		
240	23.35	483.86-88.51	211.52	183.84	-285.85	7.477e+05-2.560e+05	2.137e+05	2.779e+05	5.008e+05		
188	2239	12.20	296.5638.01	289.76	44.80	-41.36	4.998e+05	-3797.60	4.833e+04	4.477e+05	1.534e+05
269	14.80	322.5610.73	288.61	44.68	-97.13	6.457e+05	6.921e+04	2.192e+05	4.956e+05	2.529e+05	
270	17.90	324.81-61.80	181.44	81.57	-186.74	6.795e+05-6.800e+04	3.135e+05	2.981e+05	3.737e+05		
240	17.54	355.69-68.91	140.48	146.30	-212.28	5.656e+05-1.885e+05	1.761e+05	2.010e+05	3.768e+05		



189	1238	14.49	442.3083.00	440.88	84.42	22.55	6.378e+05	7.601e+04	8.463e+04	6.292e+05	6.903e+04
	268	16.67	463.0954.53	454.41	63.22	-58.93	8.087e+05	2.548e+05	3.430e+05	7.205e+05	2.027e+05
	269	20.67	472.74-22.63	350.96	99.15	-213.30	8.824e+05	8.314e+04	4.333e+05	5.322e+05	3.965e+05
	239	21.33	511.36-32.18	297.36	181.82	-265.56	7.484e+05-1.470e+05	2.072e+05	3.942e+05	4.378e+05	
189	2238	10.70	317.2969.44	316.91	69.83	9.74	4.806e+05	6.747e+04	7.683e+04	4.712e+05	6.149e+04
	268	12.55	334.5446.40	325.57	55.38	-50.05	6.126e+05	1.964e+05	2.705e+05	5.384e+05	1.592e+05
	269	15.63	343.49-14.48	245.99	83.02	-159.36	6.697e+05	6.392e+04	3.400e+05	3.936e+05	3.017e+05
	239	15.91	374.72-23.46	206.51	144.75	-196.68	5.645e+05-1.030e+05	1.711e+05	2.904e+05	3.284e+05	
190	1237	14.08	474.9892.80	453.99	113.79	87.06	6.361e+05	1.139e+05	1.191e+05	6.309e+05-5.199e+04	
	267	15.73	479.4775.07	479.43	75.11	4.37	7.575e+05	3.803e+05	3.950e+05	7.429e+05	7.287e+04
	268	17.76	488.4925.41	416.64	97.27	-167.67	8.397e+05	2.402e+05	4.493e+05	6.306e+05	2.857e+05
	238	18.97	522.1317.52	367.49	172.16	-232.63	7.270e+05-4.313e+04	1.929e+05	4.910e+05	3.550e+05	
190	2237	10.24	341.1778.24	327.00	92.41	59.37	4.752e+05	1.007e+05	1.034e+05	4.725e+05-3.160e+04	
	267	11.89	344.8264.52	344.81	64.53	-1.36	5.693e+05	2.969e+05	3.105e+05	5.557e+05	5.941e+04
	268	13.33	353.3324.76	296.51	81.57	-124.26	6.350e+05	1.866e+05	3.523e+05	4.693e+05	2.164e+05
	238	14.02	380.9616.81	260.45	137.31	-171.35	5.463e+05-2.133e+04	1.601e+05	3.649e+05	2.647e+05	
191	1236	15.10	503.4879.68	444.27	138.89	146.92	6.602e+05	9.349e+04	1.497e+05	6.039e+05-1.695e+05	
	266	15.59	491.2573.55	480.21	84.60	67.03	7.427e+05	4.190e+05	4.303e+05	7.314e+05-5.946e+04	
	267	15.99	493.3559.48	460.97	91.87	-114.03	7.790e+05	3.669e+05	4.464e+05	6.996e+05	1.625e+05
	237	16.63	516.9357.21	418.58	155.56	-188.52	6.910e+05	4.523e+04	1.715e+05	5.647e+05	2.561e+05
191	2236	10.97	363.6367.61	319.52	111.72	105.41	4.925e+05	8.623e+04	1.269e+05	4.518e+05-1.220e+05	
	266	11.77	353.2164.03	345.42	71.82	46.84	5.551e+05	3.294e+05	3.377e+05	5.468e+05-4.239e+04	
	267	12.08	355.3952.64	330.62	77.41	-82.99	5.853e+05	2.871e+05	3.500e+05	5.223e+05	1.217e+05
	237	12.16	375.1249.19	299.76	124.55	-137.42	5.169e+05	4.834e+04	1.437e+05	4.216e+05	1.886e+05
192	1235	17.09	521.4749.38	412.29	158.56	199.05	6.975e+05	2.682e+04	1.749e+05	5.494e+05-2.782e+05	
	265	16.12	495.9752.08	456.86	91.19	125.82	7.900e+05	3.436e+05	4.473e+05	6.864e+05-1.885e+05	
	266	15.56	489.4375.85	482.11	83.17	-54.54	7.395e+05	4.211e+05	4.244e+05	7.362e+05	3.207e+04
	236	14.79	498.4282.96	448.60	132.79	-134.98	6.536e+05	1.024e+05	1.438e+05	6.123e+05	1.452e+05
192	2235	12.53	378.9242.84	294.91	126.85	145.52	5.222e+05	3.384e+04	1.463e+05	4.098e+05-2.056e+05	
	265	12.18	357.6446.70	327.45	76.90	92.07	5.945e+05	2.684e+05	3.507e+05	5.122e+05-1.417e+05	
	266	11.74	351.8165.80	346.87	70.73	-37.24	5.526e+05	3.310e+05	3.331e+05	5.505e+05	2.131e+04
	236	10.74	359.5270.35	322.84	107.03	-96.23	4.874e+05	9.310e+04	1.223e+05	4.582e+05	1.033e+05
193	1234	19.48	524.68 6.56	359.05	172.19	241.62	7.304e+05-6.650e+04	1.941e+05	4.698e+05-3.738e+05		
	264	18.30	490.6814.22	410.10	94.80	178.60	8.477e+05	2.081e+05	4.457e+05	6.100e+05-3.091e+05	
	265	15.82	478.8871.67	478.74	71.82	7.68	7.655e+05	3.586e+05	3.847e+05	7.394e+05-9.982e+04	
	235	14.06	471.0789.85	455.78	105.14	-74.82	6.335e+05	1.100e+05	1.114e+05	6.321e+05	2.720e+04
193	2234	14.43	383.21 8.09	253.97	137.34	178.27	5.493e+05-3.970e+04	1.610e+05	3.486e+05-2.792e+05		
	264	13.76	355.3315.82	291.48	79.67	132.67	6.416e+05	1.614e+05	3.495e+05	4.535e+05-2.344e+05	
	265	11.96	344.6861.60	344.28	61.99	10.63	5.764e+05	2.791e+05	3.026e+05	5.530e+05-8.014e+04	
	235	10.25	338.2575.88	328.37	85.76	-49.95	4.738e+05	9.700e+04	9.741e+04	4.734e+05	1.254e+04
194	1233	21.77	511.00-44.77	287.23	179.00	272.57	7.465e+05-1.722e+05	2.061e+05	3.683e+05-4.522e+05		
	263	21.21	473.50-36.14	342.25	95.11	222.85	8.830e+05	4.753e+04	4.253e+05	5.053e+05-4.158e+05	
	264	17.14	463.3746.03	451.17	58.23	70.30	8.154e+05	2.223e+05	3.290e+05	7.087e+05-2.278e+05	
	234	14.75	440.3073.37	440.01	73.66	-10.30	6.383e+05	6.009e+04	7.548e+04	6.229e+05-9.307e+04	
194	2233	16.26	374.66-33.36	198.72	142.58	202.07	5.635e+05-1.227e+05	1.703e+05	2.705e+05-3.394e+05		
	263	16.06	344.38-25.17	239.29	79.91	166.71	6.705e+05	3.622e+04	3.338e+05	3.729e+05-3.165e+05	



264	12.93	335.2639.36	323.08	51.54	58.79	6.183e+05	1.708e+05	2.597e+05	5.293e+05	-1.786e+05	
234	10.93	316.2461.55	316.24	61.55	-0.33	4.819e+05	5.428e+04	6.980e+04	4.664e+05	-7.997e+04	
195	1232	23.67	480.09-101.47	199.90	178.72	290.58	7.400e+05	-2.804e+05	2.105e+05	2.491e+05	-5.099e+05
262	23.97	443.70-95.29	256.30	92.11	256.69	8.860e+05	-1.224e+05	3.870e+05	3.765e+05	-5.042e+05	
263	20.00	443.16	0.50	400.65	43.00	130.41	8.489e+05	5.601e+04	2.595e+05	6.453e+05	-3.463e+05
233	16.62	410.3731.35	402.02	39.69	55.61	6.568e+05	-3.384e+04	3.767e+04	5.852e+05	-2.104e+05	
195	2232	17.79	352.95-79.05	131.54	142.36	215.93	5.600e+05	-2.076e+05	1.736e+05	1.788e+05	-3.838e+05
262	18.24	323.96-73.18	173.18	77.60	192.73	6.739e+05	-9.569e+04	3.044e+05	2.739e+05	-3.845e+05	
263	15.22	323.15	0.89	284.22	39.83	105.03	6.461e+05	4.084e+04	2.063e+05	4.806e+05	-2.698e+05
233	12.55	296.7325.71	287.02	35.42	50.37	5.004e+05	-2.232e+04	4.071e+04	4.374e+05	-1.702e+05	
196	1232	19.11	381.76-33.58	4.63	343.55	-120.03	6.725e+05	-1.524e+05	5.206e+05	-487.86	3.197e+05
231	24.97	433.09-160.91	171.22	100.97	-294.91	7.084e+05	-3.841e+05	1.173e+05	2.070e+05	5.444e+05	
261	26.24	401.84-159.90	85.86	156.07	-278.67	8.536e+05	-2.918e+05	2.293e+05	3.325e+05	5.704e+05	
262	22.94	417.43-61.21	26.75	329.47	-185.38	8.530e+05	-1.216e+05	5.520e+05	1.794e+05	4.503e+05	
196	2232	14.63	278.95-28.47	8.45	242.04	-99.93	5.159e+05	-1.169e+05	3.877e+05	1.136e+04	2.543e+05
231	18.87	319.00-126.97	136.59	55.44	-219.26	5.373e+05	-2.888e+05	7.745e+04	1.710e+05	4.104e+05	
261	20.04	294.40-125.53	72.80	96.08	-209.64	6.499e+05	-2.268e+05	1.606e+05	2.624e+05	4.354e+05	
262	17.56	307.05-50.26	27.33	229.46	-147.32	6.506e+05	-9.711e+04	4.088e+05	1.446e+05	3.497e+05	
197	1231	21.71	352.13-115.02	-30.05	267.16	-180.20	6.749e+05	-2.807e+05	4.315e+05	-3.728e+04	4.164e+05
230	25.58	372.45-220.92	156.81	-5.28	-285.40	6.521e+05	-4.777e+05	-2.145e+04	1.959e+05	5.543e+05	
260	27.79	349.57-227.00	76.64	45.93	-287.88	7.860e+05	-4.521e+05	6.987e+04	2.640e+05	6.114e+05	
261	25.53	385.28-134.36	10.18	240.73	-232.85	8.239e+05	-2.994e+05	4.325e+05	9.203e+04	5.352e+05	
197	2231	16.76	260.09-95.04	-18.23	183.28	-146.21	5.202e+05	-2.180e+05	3.192e+05	-1.695e+04	3.287e+05
230	19.41	274.74-175.52	125.51	-26.29	-211.95	4.954e+05	-3.623e+05	-2.929e+04	1.624e+05	4.180e+05	
260	21.29	256.95-179.90	65.70	11.36	-216.73	5.987e+05	-3.509e+05	3.796e+04	2.098e+05	4.670e+05	
261	19.62	285.80-110.02	14.58	161.20	-183.83	6.292e+05	-2.348e+05	3.169e+05	7.745e+04	4.151e+05	
198	1230	24.05	318.98-205.65	-62.93	176.25	-233.47	6.589e+05	-4.082e+05	3.219e+05	-7.121e+04	4.961e+05
229	25.46	301.72-279.79	136.04	-114.11	-262.48	5.732e+05	-5.570e+05	-1.612e+05	1.774e+05	5.391e+05	
259	28.52	289.49-293.95	64.75	-69.22	-283.93	6.858e+05	-5.961e+05	-9.494e+04	1.846e+05	6.255e+05	
260	27.50	346.37-214.03	-6.06	138.40	-270.73	7.614e+05	-4.683e+05	2.920e+05	1177.38	5.974e+05	
198	2230	18.66	237.87-168.04	-43.52	113.35	-187.18	5.099e+05	-3.181e+05	2.348e+05	-4.305e+04	3.900e+05
229	19.40	222.93-223.41	109.53	-110.01	-194.31	4.363e+05	-4.249e+05	-1.368e+05	1.482e+05	4.063e+05	
259	21.90	213.58-234.25	56.56	-77.23	-213.69	5.223e+05	-4.624e+05	-8.882e+04	1.487e+05	4.778e+05	
260	21.19	259.01-174.44	2.08	82.48	-212.97	5.819e+05	-3.655e+05	2.088e+05	7557.86	4.629e+05	
199	1229	25.89	280.94-298.75	-92.64	74.83	-277.49	6.227e+05	-5.270e+05	1.965e+05	-1.008e+05	5.553e+05
228	24.66	225.40-336.43	109.74	-220.77	-227.16	4.757e+05	-6.191e+05	-2.958e+05	1.525e+05	4.994e+05	
258	28.37	224.91-358.56	50.70	-184.35	-267.02	5.571e+05	-7.174e+05	-2.579e+05	9.764e+04	6.120e+05	
259	28.68	301.15-295.49	-21.32	26.98	-297.34	6.676e+05	-6.204e+05	1.365e+05	-8.927e+04	6.341e+05	
199	2229	20.16	211.30-242.34	-66.37	35.33	-221.04	4.836e+05	-4.111e+05	1.383e+05	-6.583e+04	4.355e+05
228	18.88	167.09-269.85	89.30	-192.05	-167.15	3.631e+05	-4.744e+05	-2.404e+05	1.290e+05	3.758e+05	
258	21.83	166.83-286.87	45.75	-165.79	-200.68	4.241e+05	-5.565e+05	-2.142e+05	8.176e+04	4.674e+05	
259	22.15	227.02-239.90	-9.65	-3.23	-233.44	5.105e+05	-4.833e+05	8.918e+04	-6.201e+04	4.911e+05	
200	1228	27.06	238.01-388.54	-117.92	-32.61	-310.36	5.666e+05	-6.308e+05	6.063e+04	-1.249e+05	5.915e+05
227	23.29	148.81-390.34	79.03	-320.56	-180.97	3.653e+05	-6.628e+05	-4.195e+05	1.220e+05	4.369e+05	
257	27.37	159.68-419.01	35.07	-294.40	-237.87	4.060e+05	-8.111e+05	-4.120e+05	6818.74	5.714e+05	
258	29.00	250.90-374.50	-34.99	-88.61	-311.55	5.465e+05	-7.492e+05	-2.726e+04	-1.754e+05	6.436e+05	



200	2228	21.14	180.51-313.65	-85.82	-47.32	-246.33	4.419e+05-4.923e+05	3.384e+04-8.432e+04	4.634e+05
	227	17.93	111.26-314.39	65.68	-268.82	-131.62	2.801e+05-5.100e+05	-3.355e+05	1.056e+05
	257	21.13	119.60-336.31	33.73	-250.44	-178.26	3.086e+05-6.294e+05	-3.327e+05	1.190e+04
	258	22.45	190.85-303.16	-20.17	-92.14	-244.37	4.180e+05-5.830e+05	-3.676e+04	-1.283e+05
201	1227	27.49	191.08-470.20	-137.71	-141.41	-330.63	4.927e+05-7.148e+05	-7.976e+04	-1.423e+05
	226	21.55	77.79-441.68	45.21	-409.10	-125.94	2.492e+05-6.885e+05	-5.267e+05	8.745e+04
	256	25.65	97.95-473.97	18.51	-394.54	-197.79	2.396e+05-8.738e+05	-5.504e+05	-8.390e+04
	257	28.44	197.50-447.28	-46.48	-203.31	-312.71	4.035e+05-8.490e+05	-1.921e+05	-2.535e+05
201	2227	21.54	146.33-378.38	-101.05	-131.01	-261.93	3.864e+05-5.583e+05	-7.415e+04	-9.774e+04
	226	16.72	59.76-357.02	39.66	-336.92	-89.28	1.932e+05-5.322e+05	-4.180e+05	7.900e+04
	256	19.87	74.99-381.47	20.99	-327.47	-147.43	1.815e+05-6.786e+05	-4.391e+05	-5.789e+04
	257	22.07	151.99-361.36	-29.01	-180.37	-245.26	3.087e+05-6.606e+05	-1.636e+05	-1.883e+05
202	1226	27.17	141.82-539.75	-151.15	-246.78	-337.41	4.047e+05-7.756e+05	-2.185e+05	-1.524e+05
	225	19.74	18.04-490.82	9.74	-482.52	-64.46	1.370e+05-6.997e+05	-6.129e+05	5.019e+04
	255	23.39	43.82-522.46	1.76	-480.39	-148.50	6.658e+04-9.042e+05	-6.670e+05	-1.706e+05
	256	27.08	143.32-510.73	-55.33	-312.08	-300.77	2.452e+05-9.162e+05	-3.509e+05	-3.201e+05
202	2226	21.35	110.12-433.56	-111.38	-212.06	-267.14	3.200e+05-6.064e+05	-1.809e+05	-1.055e+05
	225	15.47	16.68-397.70	12.38	-393.40	-41.99	1.098e+05-5.437e+05	-4.843e+05	5.034e+04
	255	18.20	36.02-421.43	8.10	-393.51	-109.51	4.968e+04-7.031e+05	-5.289e+05	-1.246e+05
	256	21.07	112.28-412.14	-35.81	-264.04	-236.08	1.879e+05-7.131e+05	-2.857e+05	-2.396e+05
203	1255	25.05	91.08-562.42	-410.14	-61.19	276.27	7.988e+04-9.488e+05	-3.724e+05	-4.966e+05
	225	26.15	92.42-594.18	-344.07	-157.69	330.41	3.072e+05-8.115e+05	-1.547e+05	-3.496e+05
	224	18.24	-25.82-537.61	-537.61	-25.82	-0.78	4.076e+04-7.030e+05	1.187e+04	-6.741e+05
	254	20.92	1.00-563.69	-548.21	-14.47	92.18	-1.025e+05-9.037e+05	-2.494e+05	-7.568e+05
203	2255	19.57	73.85-453.64	-339.47	-40.32	217.23	6.171e+04-7.392e+05	-2.798e+05	-3.977e+05
	225	20.63	73.63-476.94	-286.90	-116.42	261.75	2.463e+05-6.353e+05	-1.073e+05	-2.817e+05
	224	14.46	-14.82-435.94	-435.78	-14.97	-8.19	3.916e+04-5.497e+05	2.086e+04	-5.314e+05
	254	16.38	5.33-455.40	-445.68	-4.38	66.19	-7.874e+04-7.044e+05	-1.852e+05	-5.979e+05
204	1254	22.60	43.73-600.75	-493.28	-63.74	240.23	-8.316e+04-9.477e+05	-4.079e+05	-6.229e+05
	224	24.55	45.43-631.50	-429.12	-156.95	309.90	2.063e+05-8.228e+05	-1.491e+05	-4.674e+05
	223	17.47	-51.29-580.60	-571.98	-59.91	-66.98	-2.488e+04-7.087e+05	-2.578e+04	-7.078e+05
	253	18.68	-27.69-596.79	-595.07	-29.41	31.24	-2.535e+05-8.792e+05	-3.169e+05	-8.158e+05
204	2254	17.75	38.91-484.62	-403.42	-42.28	189.51	-6.235e+04-7.398e+05	-3.071e+05	-4.950e+05
	224	19.46	38.84-507.01	-352.32	-115.85	245.98	1.701e+05-6.454e+05	-1.029e+05	-3.724e+05
	223	14.01	-33.05-470.36	-462.22	-41.20	-59.12	-7889.74-5.574e+05	-8097.28-5.572e+05	-1.068e+04
	253	14.75	-15.07-482.52	-481.73	-15.87	19.31	-1.925e+05-6.880e+05	-2.371e+05	-6.433e+05
205	1253	20.10	4.30-624.95	-557.81	-62.85	194.28	-2.317e+05-9.179e+05	-4.252e+05	-7.244e+05
	223	22.57	3.72-650.85	-498.21	-148.91	276.79	1.098e+05-8.122e+05	-1.356e+05	-5.668e+05
	222	17.72	-58.32-616.82	-584.08	-91.06	-131.19	-4.722e+04-7.262e+05	-6.120e+04	-7.123e+05
	252	17.28	-40.70-620.67	-618.94	-42.44	-31.70	-3.629e+05-8.486e+05	-3.702e+05	-8.414e+05
205	2253	15.89	9.75-504.41	-453.06	-41.60	154.17	-1.747e+05-7.187e+05	-3.204e+05	-5.730e+05
	223	17.99	7.96-523.09	-405.47	-109.66	220.52	9.714e+04-6.385e+05	-9.261e+04	-4.488e+05
	222	14.29	-38.00-498.68	-471.52	-65.16	-108.51	-2.267e+04-5.734e+05	-3.535e+04	-5.607e+05
	252	13.73	-24.12-501.86	-500.08	-25.90	-29.10	-2.736e+05-6.675e+05	-2.781e+05	-6.630e+05
206	1252	18.06	-24.36-635.21	-601.03	-58.53	140.38	-3.467e+05-8.733e+05	-4.234e+05	-7.966e+05
	222	20.49	-29.99-652.54	-548.37	-134.17	232.38	2.701e+04-7.854e+05	-1.151e+05	-6.432e+05



221	18.96	-48.31-642.81	-573.62	-117.49	-190.64-2.316e+04-7.569e+05-9.249e+04-6.876e+052.146e+05		
251	17.23	-37.72-633.91	-618.77	-52.86	-93.81-3.941e+05-8.452e+05-4.067e+05-8.325e+057.439e+04		
206	2252	14.37	-11.52-513.07	-486.31	-38.27	112.71-2.609e+05-6.867e+05-3.190e+05-6.286e+05-1.462e+05	
222	16.44	-17.01-525.37	-444.05	-98.33	186.35	3.461e+04-6.190e+05-7.681e+04-5.076e+05-2.458e+05	
221	15.27	-30.54-518.43	-463.48	-85.49	-154.24	-3484.66-5.976e+05-5.941e+04-5.417e+051.735e+05	
251	13.66	-21.56-512.31	-499.95	-33.92	-76.88-2.960e+05-6.664e+05-3.062e+05-6.562e+056.058e+04		
207	1251	17.20	-39.72-632.20	-620.95	-50.97	80.86-3.957e+05-8.428e+05-4.025e+05-8.360e+05-5.464e+04	
221	18.71	-51.96-638.28	-577.24	-112.99	179.06-2.957e+04-7.520e+05-8.833e+04-6.933e+05-1.975e+05		
220	20.84	-24.23-655.02	-540.73	-138.52	-242.96	3.832e+04-7.912e+05-1.187e+05-6.341e+053.250e+05	
250	18.35	-19.82-634.99	-594.62	-60.20	-152.34-3.329e+05-8.812e+05-4.250e+05-7.891e+052.049e+05		
207	2251	13.60	-23.10-510.99	-501.63	-32.46	66.92-2.972e+05-6.646e+05-3.029e+05-6.589e+05-4.538e+04	
221	15.08	-33.26-515.04	-466.25	-82.04	145.34	-8420.09-5.939e+05-5.622e+04-5.461e+05-1.603e+05	
220	16.70	-12.74-527.09	-438.17	-101.66	-194.50	4.318e+04-6.234e+05-7.959e+04-5.006e+052.584e+05	
250	14.59	-8.16-512.78	-481.37	-39.56	-121.90-2.506e+05-6.924e+05-3.202e+05-6.228e+051.610e+05		
208	1250	17.43	-39.83-617.38	-616.79	-40.42	18.47-3.508e+05-8.539e+05-3.634e+05-8.413e+057.853e+04	
220	17.65	-59.20-610.82	-583.98	-86.05	118.70-4.690e+04-7.244e+05-5.609e+04-7.152e+05-7.837e+04		
219	22.95	10.53-650.81	-487.20	-153.08	-285.36	1.240e+05-8.172e+05-1.384e+05-5.547e+054.221e+05	
249	20.54	11.04-622.79	-547.69	-64.07	-204.85-2.110e+05-9.264e+05-4.240e+05-7.134e+053.271e+05		
208	2250	13.86	-23.59-499.18	-498.43	-24.34	18.92-2.647e+05-6.711e+05-2.728e+05-6.629e+055.705e+04	
220	14.23	-38.70-494.05	-471.44	-61.30	98.91-2.268e+04-5.717e+05-3.141e+04-5.629e+05-6.868e+04		
219	18.28	12.95-522.82	-397.00	-112.87	-227.11	1.079e+05-6.422e+05-9.476e+04-4.395e+053.331e+05	
249	16.22	14.72-502.54	-445.28	-42.53	-162.29-1.592e+05-7.249e+05-3.195e+05-5.645e+052.550e+05		
209	1249	19.05	-23.92-592.24	-588.80	-27.35	-44.06-2.329e+05-8.865e+05-3.077e+05-8.117e+052.081e+05	
219	17.59	-49.33-573.60	-567.96	-54.98	54.11-1.752e+04-7.101e+05-2.024e+04-7.074e+054.328e+04		
218	24.92	53.44-628.80	-415.31	-160.05	-316.34	2.226e+05-8.258e+05-1.507e+05-4.525e+055.020e+05	
248	23.10	52.24-596.46	-479.94	-64.27	-249.01-5.868e+04-9.535e+05-4.039e+05-6.083e+054.356e+05		
209	2249	15.03	-12.46-478.73	-476.90	-14.29	-29.17-1.770e+05-6.932e+05-2.300e+05-6.402e+051.567e+05	
219	14.09	-31.74-464.79	-459.11	-37.41	49.23	-2716.00-5.581e+05 -3834.30-5.570e+05 2.490e+04	
218	19.74	44.73-504.66	-341.70	-118.23	-250.94	1.824e+05-6.474e+05-1.042e+05-3.609e+053.946e+05	
248	18.12	45.18-481.04	-393.16	-42.69	-196.27-4.372e+04-7.440e+05-3.040e+05-4.837e+053.384e+05		
210	1248	21.40	7.63-558.05	-538.23	-12.19	-104.02-7.728e+04-9.092e+05-2.378e+05-7.486e+053.283e+05	
218	18.53	-20.54-530.36	-530.09	-20.81	-11.78	5.423e+04-7.065e+05 1.795e+04-6.703e+05 1.621e+05	
217	26.48	101.19-588.75	-328.27	-159.29	-334.47	3.247e+05-8.115e+05-1.550e+05-3.318e+055.612e+05	
247	25.54	100.76-556.02	-394.48	-60.78	-282.84	1.067e+05-9.504e+05-3.654e+05-4.782e+055.255e+05	
210	2248	16.74	10.03-450.65	-438.00	-2.63	-75.30-5.958e+04-7.083e+05-1.763e+05-5.916e+052.492e+05	
218	14.66	-11.12-429.99	-429.98	-11.13	-1.46	4.898e+04-5.518e+05 2.555e+04-5.284e+05 1.163e+05	
217	20.88	80.09-472.48	-274.74	-117.64	-264.89	2.595e+05-6.351e+05-1.075e+05-2.681e+054.401e+05	
247	19.93	80.99-448.41	-327.42	-40.00	-222.29	8.221e+04-7.403e+05-2.744e+05-3.837e+054.076e+05	
211	1274	31.28	184.59-490.28	-104.31	-201.37	333.93	4.601e+05-1.068e+06-2.248e+05-3.828e+05-7.598e+05
275	29.47	131.08-523.59	25.06	-417.57	241.18	2.290e+05-1.166e+06-7.066e+05-2.304e+05-6.556e+05	
246	24.80	52.41-502.01	-40.63	-408.96	207.19	2.592e+05-9.301e+05-6.227e+05-4.816e+04-5.206e+05	
245	27.28	185.59-453.83	-102.40	-165.84	318.13	4.602e+05-8.657e+05-1.698e+05-2.357e+05-6.621e+05	
211	2274	24.19	138.45-394.04	-74.46	-181.13	260.85	3.456e+05-8.330e+05-1.943e+05-2.931e+05-5.872e+05
275	22.80	98.90-421.28	25.06	-347.44	181.55	1.676e+05-9.083e+05-5.649e+05-1.759e+05-5.016e+05	
246	19.23	36.52-402.84	-27.32	-339.00	154.83	1.968e+05-7.233e+05-4.972e+05-2.930e+04-3.961e+05	
245	21.18	138.82-365.64	-74.83	-151.99	249.26	3.527e+05-6.750e+05-1.488e+05-1.735e+05-5.137e+05	



212	1275	29.78	111.99-556.20	-123.10	-321.11	319.09	2.247e+05-1.182e+06-4.403e+05-5.168e+05-7.022e+05
	276	27.25	57.89-579.49	-7.75	-513.86	193.72	-1.745e+04-1.232e+06-8.681e+05-3.814e+05-5.564e+05
	247	22.89	-28.15-549.88	-82.18	-495.85	158.97	8.429e+04-9.750e+05-7.576e+05-1.332e+05-4.279e+05
	246	26.25	108.99-525.73	-137.54	-279.20	309.36	2.969e+05-9.522e+05-3.554e+05-2.999e+05-6.239e+05
212	2275	23.09	84.84-446.99	-88.91	-273.24	249.44	1.651e+05-9.213e+05-3.600e+05-3.962e+05-5.429e+05
	276	21.15	44.93-466.61	-0.17	-421.51	145.03	-2.123e+04-9.598e+05-6.891e+05-2.920e+05-4.252e+05
	247	17.84	-23.06-442.05	-59.28	-405.84	117.74	6.394e+04-7.596e+05-6.009e+05-9.470e+04-3.248e+05
	246	20.45	81.52-422.57	-101.86	-239.19	242.51	2.283e+05-7.428e+05-2.915e+05-2.230e+05-4.843e+05
213	1277	24.66	-7.25-623.50	-591.30	-39.45	-137.14	-2.604e+05-1.249e+06-5.155e+05-9.938e+05-4.325e+05
	248	20.78	-96.75-587.14	-564.41	-119.48	-103.11	-8.319e+04-9.894e+05-2.114e+05-8.611e+05-3.159e+05
	247	24.59	32.70-582.42	-383.74	-165.98	-287.64	1.271e+05-1.004e+06-3.501e+05-5.271e+05-5.588e+05
	276	27.60	42.93-609.11	-430.44	-135.74	-290.82	-1.934e+04-1.247e+06-6.281e+05-6.386e+05-6.140e+05
213	2277	19.23	-3.01-502.64	-481.08	-24.56	-101.51	-2.070e+05-9.739e+05-3.951e+05-7.858e+05-3.300e+05
	248	16.30	-73.46-473.09	-458.58	-87.97	-74.77	-6.275e+04-7.728e+05-1.549e+05-6.806e+05-2.386e+05
	247	19.24	24.46-467.80	-319.60	-123.74	-225.81	9.907e+04-7.844e+05-2.616e+05-4.237e+05-4.342e+05
	276	21.46	33.88-489.85	-357.34	-98.63	-227.69	-2.186e+04-9.725e+05-4.818e+05-5.126e+05-4.751e+05
214	1278	22.64	-59.41-655.72	-646.39	-68.74	-73.99	-4.855e+05-1.220e+06-6.270e+05-1.078e+06-2.897e+05
	249	18.85	-147.17-615.37	-611.56	-150.98	-42.09	-2.283e+05-9.803e+05-2.796e+05-9.290e+05-1.897e+05
	248	22.52	-38.69-622.66	-474.81	-186.53	-253.93	-3.880e+04-1.023e+06-3.842e+05-6.776e+05-4.697e+05
	277	25.02	-18.02-648.24	-524.53	-141.73	-250.32	-2.598e+05-1.263e+06-7.120e+05-8.110e+05-4.993e+05
214	2278	17.68	-41.28-529.27	-523.46	-47.09	-52.93	-3.784e+05-9.533e+05-4.810e+05-8.508e+05-2.201e+05
	249	14.91	-110.19-496.86	-494.85	-112.21	-27.83	-1.716e+05-7.685e+05-2.073e+05-7.328e+05-1.416e+05
	248	17.71	-28.83-500.37	-389.66	-139.55	-199.87	-2.689e+04-8.003e+05-2.878e+05-5.394e+05-3.657e+05
	277	19.54	-10.99-521.97	-429.72	-103.24	-196.54	-2.058e+05-9.857e+05-5.463e+05-6.452e+05-3.868e+05
215	1279	22.21	-94.23-676.75	-676.66	-94.31	-7.03	-6.710e+05-1.158e+06-7.111e+05-1.118e+06-1.340e+05
	250	18.26	-174.34-636.19	-635.20	-175.33	21.39	-3.299e+05-9.632e+05-3.347e+05-9.584e+05-5.488e+04
	249	20.35	-100.25-646.51	-548.45	-198.32	-209.65	-1.881e+05-1.013e+06-4.007e+05-8.003e+05-3.608e+05
	278	22.84	-66.22-673.80	-599.25	-140.77	-199.34	-4.826e+05-1.232e+06-7.647e+05-9.502e+05-3.632e+05
215	2279	17.38	-66.76-546.75	-546.75	-66.76	-1.43	-5.180e+05-9.091e+05-5.456e+05-8.815e+05-1.003e+05
	250	14.34	-129.78-514.18	-513.03	-130.93	21.00	-2.469e+05-7.582e+05-2.497e+05-7.554e+05-3.786e+04
	249	16.11	-74.64-520.28	-446.30	-148.61	-165.81	-1.397e+05-7.946e+05-3.005e+05-6.338e+05-2.819e+05
	278	17.85	-46.36-543.34	-487.20	-102.50	-157.32	-3.755e+05-9.635e+05-5.869e+05-7.522e+05-2.821e+05
216	1280	22.08	-108.65-687.24	-680.78	-115.11	60.78	-7.619e+05-1.114e+06-7.641e+05-1.112e+06-2.752e+04
	251	18.18	-176.01-649.85	-634.25	-191.62	84.56	-3.626e+05-9.598e+05-3.743e+05-9.482e+05-8.265e+04
	250	18.49	-146.79-655.37	-601.29	-200.87	-156.78	-3.033e+05-9.856e+05-3.988e+05-8.901e+05-2.367e+05
	279	22.33	-97.53-686.67	-651.24	-132.96	-140.07	-6.670e+05-1.167e+06-7.840e+05-1.050e+06-2.117e+05
216	2280	17.29	-77.31-555.36	-549.91	-82.76	50.74	-5.844e+05-8.786e+05-5.864e+05-8.766e+05-2.393e+04
	251	14.29	-130.77-525.00	-512.30	-143.46	69.59	-2.705e+05-7.572e+05-2.802e+05-7.476e+05-6.793e+04
	250	14.73	-109.13-528.40	-486.95	-150.58	-125.14	-2.261e+05-7.758e+05-2.991e+05-7.029e+05-1.864e+05
	279	17.47	-69.23-554.45	-527.19	-96.49	-111.73	-5.145e+05-9.163e+05-6.017e+05-8.292e+05-1.656e+05
217	1281	22.26	-101.50-687.22	-658.47	-130.25	126.55	-6.886e+05-1.155e+06-7.839e+05-1.060e+06-1.881e+05
	252	18.41	-153.20-654.68	-608.74	-199.14	144.66	-3.161e+05-9.800e+05-3.968e+05-8.993e+05-2.169e+05
	251	18.20	-173.38-651.93	-631.10	-194.21	-97.65	-3.606e+05-9.617e+05-3.788e+05-9.435e+05-1.031e+05
	280	22.09	-108.74-688.14	-678.20	-118.68	-75.24	-7.615e+05-1.115e+06-7.692e+05-1.107e+06-5.163e+04
217	2281	17.43	-72.12-555.04	-532.75	-94.41	101.33	-5.306e+05-9.078e+05-6.016e+05-8.368e+05-1.474e+05
	252	14.54	-113.84-528.09	-492.68	-149.25	115.82	-2.357e+05-7.718e+05-2.975e+05-7.100e+05-1.712e+05



251	14.31	-128.80-526.53	-509.88	-145.45	-79.66-2.689e+05	-7.587e+05	-2.837e+05	-7.440e+05	58.364e+04		
280	17.29	-77.37-556.06	-547.93	-85.50	-61.86-5.841e+05	-8.793e+05	-5.903e+05	-8.730e+05	54.248e+04		
218	1282	22.72	-73.86-675.92	-610.65	-139.13	187.18-5.129e+05	-1.221e+06	-7.695e+05	-9.647e+05	-3.404e+05	
253	19.97	-109.65-647.61	-559.66	-197.60	198.95-2.080e+05	-1.007e+06	-4.013e+05	-8.135e+05	-3.421e+05		
252	18.20	-176.04-639.05	-636.42	-178.67	-34.76-3.396e+05	-9.597e+05	-3.415e+05	-9.578e+05	-3.436e+04		
281	22.16	-98.49-678.99	-678.90	-98.59	-7.49-6.924e+05	-1.147e+06	-7.209e+05	-1.118e+06	-1.103e+05		
218	2282	17.76	-51.93-545.27	-495.97	-101.24	147.97-3.986e+05	-9.554e+05	-5.905e+05	-7.634e+05	-2.646e+05	
253	15.82	-81.55-521.43	-454.92	-148.07	157.59-1.547e+05	-7.902e+05	-3.009e+05	-6.439e+05	-2.675e+05		
252	14.30	-130.95-516.53	-513.98	-133.50	-31.28-2.540e+05	-7.559e+05	-2.550e+05	-7.550e+05	-2.207e+04		
281	17.34	-69.85-548.66	-548.47	-70.05	-9.74-5.338e+05	-9.010e+05	-5.532e+05	-8.816e+05	-8.206e+04		
219	1283	24.51	-28.50-652.31	-539.45	-141.37	240.14-2.949e+05	-1.257e+06	-7.218e+05	-8.304e+05	-4.781e+05	
254	22.09	-50.33-626.09	-489.24	-187.19	245.08-6.316e+04	-1.019e+06	-3.875e+05	-6.948e+05	-4.526e+05		
253	18.53	-153.13-618.83	-617.01	-154.96	29.08-2.468e+05	-9.747e+05	-2.887e+05	-9.328e+05	-1.695e+05		
282	22.53	-67.46-659.36	-653.20	-73.62	60.10-5.161e+05	-1.209e+06	-6.414e+05	-1.084e+06	-2.667e+05		
219	2283	19.15	-18.68-525.47	-441.20	-102.96	188.70-2.326e+05	-9.813e+05	-5.538e+05	-6.601e+05	-3.705e+05	
254	17.39	-37.45-503.36	-400.75	-140.05	193.07-4.537e+04	-7.977e+05	-2.904e+05	-5.527e+05	-3.525e+05		
253	14.68	-114.43-499.87	-499.04	-115.26	17.82-1.855e+05	-7.646e+05	-2.144e+05	-7.358e+05	-1.261e+05		
282	17.60	-47.14-532.40	-528.70	-50.85	42.25-4.016e+05	-9.453e+05	-4.920e+05	-8.549e+05	-2.024e+05		
220	1284	27.08	30.54-615.37	-447.90	-136.93	283.06-5.764e+04	-1.248e+06	-6.428e+05	-6.628e+05	-5.951e+05	
255	24.16	19.66-588.47	-400.46	-168.35	281.05	9.993e+04	-1.005e+06	-3.563e+05	-5.484e+05	-5.439e+05	
254	20.36	-106.50-591.44	-573.69	-124.25	91.05-1.073e+05	-9.851e+05	-2.227e+05	-8.697e+05	-2.966e+05		
283	24.15	-18.35-628.82	-602.25	-44.92	124.55-2.959e+05	-1.243e+06	-5.342e+05	-1.005e+06	-4.110e+05		
220	2284	21.07	24.75-495.07	-370.78	-99.54	221.72-5.123e+04	-9.730e+05	-4.931e+05	-5.312e+05	-4.605e+05	
255	18.91	14.76-472.79	-332.46	-125.56	220.74	7.834e+04	-7.848e+05	-2.663e+05	-4.401e+05	-4.227e+05	
254	15.99	-80.50-476.86	-465.72	-91.64	65.49-8.096e+04	-7.698e+05	-1.636e+05	-6.872e+05	-2.238e+05		
283	18.84	-11.14-507.13	-489.51	-28.76	91.83-2.342e+05	-9.695e+05	-4.096e+05	-7.941e+05	-3.134e+05		
221	1256	25.87	95.41-534.57	-141.92	-297.24	-305.26	2.680e+05	-9.577e+05	-3.808e+05	-3.089e+05	56.118e+05
255	22.44	-40.72-555.48	-87.85	-508.35	-148.46	5.668e+04	-9.742e+05	-7.711e+05	-1.464e+05	54.100e+05	
284	26.72	44.76-586.73	-13.73	-528.25	-183.06-5.614e+04	-1.233e+06	-8.848e+05	-4.040e+05	55.369e+05		
285	29.32	98.79-564.81	-125.97	-340.05	-314.06	1.844e+05	-1.190e+06	-4.694e+05	-5.361e+05	56.863e+05	
221	2256	20.17	71.37-429.66	-105.23	-253.07	-239.36	2.062e+05	-7.472e+05	-3.112e+05	-2.298e+05	54.750e+05
255	17.51	-32.26-446.84	-63.64	-415.46	-109.66	4.297e+04	-7.592e+05	-6.114e+05	-1.049e+05	53.110e+05	
284	20.76	35.25-472.60	-4.77	-432.58	-136.83-5.091e+04	-9.604e+05	-7.019e+05	-3.094e+05	54.102e+05		
285	22.73	75.07-453.99	-91.11	-287.82	-245.57	1.342e+05	-9.276e+05	-3.824e+05	-4.110e+05	55.307e+05	
222	1273	31.94	256.44-413.11	-80.31	-76.36	334.77	6.756e+05	-9.093e+05	-1569.42	-2.322e+05	-7.840e+05
274	31.03	207.37-456.52	57.46	-306.61	277.58	4.665e+05	-1.052e+06	-5.160e+05	-6.956e+04	-7.258e+05	
245	26.22	138.67-442.84	3.33	-307.50	245.74	4.299e+05	-8.524e+05	-4.622e+05	53.969e+04	-5.900e+05	
244	27.57	258.33-369.08	-62.24	-48.51	313.63	6.081e+05	-7.470e+05	2.138e+04	-1.603e+05	-6.715e+05	
222	2273	24.65	191.42-332.38	-55.99	-84.97	261.50	5.109e+05	-7.106e+05	-2.252e+04	-1.772e+05	-6.059e+05
274	23.96	155.21-367.31	49.99	-262.09	209.54	3.497e+05	-8.201e+05	-4.183e+05	-5.214e+04	-5.555e+05	
245	20.25	100.62-355.08	6.49	-260.95	184.48	3.267e+05	-6.622e+05	-3.737e+05	53.827e+04	-4.495e+05	
244	21.34	193.13-298.80	-43.94	-61.73	245.80	4.653e+05	-5.826e+05	-1740.55	-1.156e+05	-5.209e+05	
223	1272	31.66	323.75-327.37	-52.15	48.54	321.65	8.610e+05	-7.134e+05	2.189e+05	-7.137e+04	-7.737e+05
273	31.76	282.12-379.95	88.09	-185.92	301.35	6.838e+05	-8.946e+05	-3.051e+05	59.433e+04	-7.635e+05	
244	26.97	224.78-373.00	47.75	-195.97	272.92	5.868e+05	-7.434e+05	-2.833e+05	1.266e+05	-6.327e+05	
243	27.06	323.69-274.92	-18.95	67.72	296.15	7.331e+05	-6.011e+05	2.091e+05	-7.714e+04	-6.515e+05	





223	2272	24.39	240.81-264.04	-34.33	11.10	251.40	6.531e+05-5.595e+05	1.471e+05-5.353e+04-5.979e+05			
	273	24.47	210.31-306.00	73.55	-169.25	227.83	5.164e+05-6.984e+05-2.560e+05	7.393e+04-5.845e+05			
	244	20.76	164.77-299.26	40.67	-175.16	205.39	4.462e+05-5.771e+05-2.361e+05	1.052e+05-4.824e+05			
	243	20.89	241.66-224.62	-10.64	27.67	232.35	5.603e+05-4.693e+05	1.427e+05-5.160e+04-5.055e+05			
224	1271	30.46	383.46-236.52	-21.33	168.26	295.14	1.008e+06-4.888e+05	4.267e+05	9.203e+04-7.292e+05		
	272	31.57	351.31-296.40	115.41	-60.50	311.68	8.705e+05-7.000e+05-8.298e+04	2.535e+05-7.670e+05			
	243	26.97	305.76-294.28	90.49	-79.00	287.80	7.215e+05-6.071e+05-9.393e+04	2.084e+05-6.469e+05			
	242	25.77	378.79-175.44	25.25	178.10	266.37	8.290e+05-4.342e+05	3.850e+05	9842.88-6.031e+05		
224	2271	23.42	284.21-191.63	-10.62	103.20	231.01	7.653e+05-3.863e+05	3.069e+05	7.216e+04-5.637e+05		
	272	24.28	261.07-239.28	94.56	-72.77	235.77	6.595e+05-5.483e+05-8.514e+04	1.964e+05-5.872e+05			
	243	20.70	225.08-236.73	73.54	-85.19	216.84	5.487e+05-4.711e+05-9.045e+04	1.680e+05-4.932e+05			
	242	19.84	282.12-146.17	23.36	112.59	209.45	6.330e+05-3.397e+05	2.780e+05	1.531e+04-4.683e+05		
225	1300	28.42	433.22-144.73	10.81	277.68	256.32	1.109e+06-2.460e+05	6.116e+05	2.510e+05-6.529e+05		
	271	30.45	411.60-209.09	138.20	64.31	308.14	1.018e+06-4.772e+05	1.395e+05	4.011e+05-7.360e+05		
	242	26.17	377.18-209.32	129.46	38.40	289.69	8.275e+05-4.492e+05	9.673e+04	2.815e+05-6.316e+05		
	241	23.81	421.82-75.64	68.28	277.89	225.57	8.919e+05-2.545e+05	5.404e+05	9.696e+04-5.286e+05		
225	2300	21.80	319.75-118.28	14.10	187.37	201.15	8.426e+05-1.990e+05	4.492e+05	1.945e+05-5.050e+05		
	271	23.37	304.91-169.58	112.09	23.24	233.05	7.723e+05-3.765e+05	8.599e+04	3.099e+05-5.634e+05		
	242	20.02	278.09-169.45	103.52	5.12	218.29	6.290e+05-3.485e+05	5.622e+04	2.243e+05-4.815e+05		
	241	18.27	312.96-67.15	56.46	189.35	178.06	6.801e+05-2.002e+05	3.975e+05	8.233e+04-4.110e+05		
226	1299	25.74	471.72-56.81	42.82	372.10	206.71	1.160e+06	3705.12	7.654e+05	3.986e+05-5.484e+05	
	300	28.49	460.53-121.86	155.34	183.33	290.86	1.119e+06-2.367e+05	3.518e+05	5.305e+05-6.719e+05		
	241	24.64	435.61-121.57	162.73	151.31	278.53	8.999e+05-2.775e+05	2.797e+05	3.426e+05-5.878e+05		
	270	21.36	452.2318.75	108.18	362.80	175.41	9.202e+05-7.152e+04	6.684e+05	1.803e+05-4.316e+05		
226	2299	19.69	346.35-47.63	38.72	259.99	162.99	8.817e+05	-6293.13	5.674e+05	3.079e+05-4.246e+05	
	300	21.81	339.85-99.78	125.28	114.79	219.75	8.497e+05-1.909e+05	2.493e+05	4.095e+05-5.141e+05		
	241	18.78	321.07-99.98	129.11	91.98	209.70	6.835e+05-2.152e+05	1.970e+05	2.713e+05-4.478e+05		
	270	16.30	333.60	8.21	87.15	254.66	139.48	7.003e+05-5.789e+04	4.960e+05	1.464e+05-3.364e+05	
227	1269	18.71	471.46100.89	429.06	143.29	-117.96	9.159e+05	1.040e+05	2.560e+05	7.639e+05	3.167e+05
	298	22.74	498.9721.64	447.29	73.31	-148.31	1.161e+06	2.484e+05	5.280e+05	8.818e+05	4.208e+05
	299	25.88	496.65-39.16	291.50	165.99	-260.45	1.170e+06	1.041e+04	6.362e+05	5.445e+05	5.781e+05
	270	22.50	478.65-35.03	254.90	188.71	-254.70	9.365e+05-1.005e+05	3.892e+05	4.468e+05	5.177e+05	
227	2269	14.17	344.9674.82	305.63	114.16	-95.29	6.949e+05	7.924e+04	2.047e+05	5.694e+05	2.480e+05
	298	17.31	364.0216.00	317.84	62.18	-118.06	8.817e+05	1.828e+05	4.075e+05	6.570e+05	3.264e+05
	299	19.75	364.73-33.27	198.00	133.47	-196.37	8.885e+05	-255.86	4.907e+05	3.975e+05	4.419e+05
	270	17.07	352.09-31.33	171.66	149.10	-191.38	7.103e+05-7.767e+04	3.071e+05	3.255e+05	3.939e+05	
228	1268	16.88	483.51162.36	473.52	172.35	-55.76	8.864e+05	2.579e+05	3.211e+05	8.232e+05	1.891e+05
	297	20.74	516.5284.27	499.66	101.13	-83.68	1.115e+06	4.756e+05	6.339e+05	9.563e+05	2.758e+05
	298	22.90	519.8433.92	383.98	169.78	-218.08	1.170e+06	2.523e+05	7.137e+05	7.091e+05	4.591e+05
	269	19.98	505.2245.72	344.54	206.39	-219.12	9.383e+05	7.176e+04	4.193e+05	5.907e+05	4.247e+05
228	2268	12.74	350.35125.99	339.83	136.52	-47.44	6.692e+05	2.006e+05	2.547e+05	6.150e+05	1.498e+05
	297	15.71	374.2067.50	358.12	83.58	-68.35	8.443e+05	3.590e+05	4.890e+05	7.143e+05	2.149e+05
	298	17.40	379.4726.05	269.13	136.39	-163.77	8.879e+05	1.867e+05	5.504e+05	5.242e+05	3.504e+05
	269	15.07	370.2333.09	240.62	162.70	-164.01	7.099e+05	5.660e+04	3.303e+05	4.362e+05	3.223e+05
229	1267	16.35	494.32194.09	494.08	194.32	8.41	8.506e+05	3.665e+05	3.726e+05	8.444e+05	5.417e+04
	296	20.19	527.32124.53	526.70	125.14	-15.73	1.032e+06	6.669e+05	7.117e+05	9.868e+05	1.197e+05



297	20.89	531.5791.57	456.52	166.62	-165.50	1.122e+06	4.768e+05	7.597e+05	8.394e+05	3.203e+05	
268	17.44	515.97115.36	416.15	215.19	-173.28	9.106e+05	2.270e+05	4.318e+05	7.059e+05	3.131e+05	
229	2267	12.31	355.67153.40	355.65	153.42	1.92	6.375e+05	2.882e+05	2.944e+05	6.314e+05	4.602e+04
296	15.25	379.85101.12	378.92	102.05	-16.08	7.771e+05	5.094e+05	5.488e+05	7.378e+05	9.482e+04	
297	15.81	385.4273.47	324.93	133.95	-123.33	8.494e+05	3.607e+05	5.858e+05	6.244e+05	2.436e+05	
268	13.04	375.9689.20	295.70	169.47	-128.74	6.863e+05	1.784e+05	3.399e+05	5.248e+05	2.365e+05	
230	1266	16.23	506.99191.16	489.73	208.42	71.78	8.428e+05	3.930e+05	4.086e+05	8.272e+05	-8.234e+04
295	20.05	534.23137.28	527.14	144.37	52.58	9.798e+05	7.506e+05	7.582e+05	9.722e+05	-4.109e+04	
296	20.27	534.86127.60	505.68	156.78	-105.03	1.037e+06	6.660e+05	7.724e+05	9.305e+05	1.678e+05	
267	16.47	513.89167.45	466.34	215.00	-119.21	8.679e+05	3.462e+05	4.261e+05	7.880e+05	1.878e+05	
230	2266	12.20	365.09151.48	352.30	164.26	50.67	6.294e+05	3.108e+05	3.221e+05	6.181e+05	-5.898e+04
295	15.13	384.23111.87	379.25	116.84	36.46	7.322e+05	5.789e+05	5.846e+05	7.265e+05	-2.885e+04	
296	15.31	385.52103.61	362.75	126.38	-76.81	7.806e+05	5.093e+05	5.955e+05	6.944e+05	1.263e+05	
267	12.39	371.82131.81	334.31	169.32	-87.15	6.504e+05	2.731e+05	3.355e+05	5.880e+05	1.401e+05	
231	1265	16.54	517.43157.30	460.79	213.95	131.11	8.748e+05	3.246e+05	4.274e+05	7.720e+05	-2.144e+05
294	20.34	537.57121.38	501.01	157.94	117.81	1.054e+06	6.306e+05	7.714e+05	9.131e+05	-1.995e+05	
295	20.04	533.26136.76	529.34	140.69	-39.24	9.789e+05	7.509e+05	7.512e+05	9.786e+05	8028.10	
266	16.22	504.72194.17	493.04	205.86	-59.09	8.404e+05	3.957e+05	4.024e+05	8.337e+05	5.411e+04	
231	2265	12.44	374.96123.58	330.03	168.51	96.31	6.563e+05	2.559e+05	3.365e+05	5.757e+05	-1.606e+05
294	15.36	387.9598.48	359.16	127.28	86.64	7.947e+05	4.812e+05	5.948e+05	6.811e+05	-1.507e+05	
295	15.12	383.49111.46	380.94	114.01	-26.21	7.315e+05	5.791e+05	5.792e+05	7.315e+05	3414.07	
266	12.19	363.17153.95	354.84	162.29	-40.92	6.276e+05	3.128e+05	3.173e+05	6.231e+05	3.727e+04	
232	1264	17.91	518.52100.57	408.21	210.89	184.22	9.149e+05	1.953e+05	4.285e+05	6.816e+05	-3.368e+05
293	21.00	534.5680.13	449.27	165.42	177.43	1.132e+06	4.314e+05	7.512e+05	8.123e+05	-3.490e+05	
294	20.24	528.14117.25	526.14	119.25	28.58	1.048e+06	6.315e+05	6.974e+05	9.822e+05	-1.520e+05	
265	16.39	494.73188.44	494.68	188.49	3.93	8.552e+05	3.486e+05	3.622e+05	8.415e+05	-8.215e+04	
232	2264	13.41	378.2877.46	289.59	166.16	137.16	6.901e+05	1.534e+05	3.374e+05	5.061e+05	-2.547e+05
293	15.90	388.1764.22	319.36	133.03	132.50	8.573e+05	3.254e+05	5.792e+05	6.035e+05	-2.657e+05	
294	15.30	380.8795.14	378.49	97.52	25.96	7.909e+05	4.812e+05	5.378e+05	7.342e+05	-1.197e+05	
265	12.34	356.38148.65	356.11	148.93	7.57	6.419e+05	2.736e+05	2.864e+05	6.291e+05	-6.755e+04	
233	1263	20.45	505.2628.47	334.56	199.16	228.58	9.357e+05	3.547e+04	4.118e+05	5.594e+05	-4.440e+05
292	23.42	521.6119.17	374.42	166.36	228.67	1.169e+06	2.026e+05	6.982e+05	6.736e+05	-4.831e+05	
293	20.84	517.9371.77	496.34	93.35	95.73	1.124e+06	4.300e+05	6.131e+05	9.408e+05	-3.058e+05	
264	16.95	485.52149.38	471.38	163.52	67.48	8.902e+05	2.275e+05	3.071e+05	8.107e+05	-2.154e+05	
233	2263	15.44	370.4719.61	232.94	157.14	171.29	7.083e+05	2.825e+04	3.245e+05	4.121e+05	-3.372e+05
292	17.81	381.2214.32	261.78	133.76	171.92	8.871e+05	1.482e+05	5.384e+05	4.968e+05	-3.688e+05	
293	15.79	375.7757.39	355.57	77.60	77.62	8.519e+05	3.235e+05	4.730e+05	7.024e+05	-2.380e+05	
264	12.81	352.48115.42	338.18	129.72	56.45	6.728e+05	1.765e+05	2.439e+05	6.054e+05	-1.700e+05	
234	1262	22.88	475.42-53.06	243.09	179.27	262.31	9.260e+05	-1.376e+05	3.779e+05	4.105e+05	-5.315e+05
291	26.32	496.07-55.57	279.77	160.73	269.32	1.157e+06	-3.980e+04	6.147e+05	5.029e+05	-5.960e+05	
292	23.25	499.50	5.93	441.31	64.11	159.16	1.160e+06	1.985e+05	5.020e+05	8.560e+05	-4.467e+05
263	19.16	472.7483.46	424.18	132.02	128.62	9.137e+05	6.809e+04	2.393e+05	7.425e+05	-3.398e+05	
234	2262	17.38	349.71-45.30	162.57	141.83	197.23	7.025e+05	-1.065e+05	2.985e+05	2.976e+05	-4.045e+05
291	20.10	364.56-46.16	188.97	129.43	203.19	8.788e+05	-3.905e+04	4.742e+05	3.656e+05	-4.557e+05	
292	17.72	364.83	3.51	313.23	55.10	126.41	8.805e+05	1.442e+05	3.875e+05	6.372e+05	-3.464e+05
263	14.54	346.3461.03	301.88	105.49	103.48	6.937e+05	5.110e+04	1.918e+05	5.530e+05	-2.658e+05	



235	1262	21.77	451.10-0.58	95.27	355.25	-184.68	9.105e+05	-1.088e+05	6.398e+05	1.619e+05	4.501e+05
	261	24.88	428.95-139.15	151.95	137.85	-283.97	8.819e+05	-3.122e+05	2.414e+05	3.283e+05	5.955e+05
	290	28.79	456.96-138.71	148.71	169.54	-297.65	1.096e+06	-2.839e+05	3.076e+05	5.042e+05	6.828e+05
	291	26.18	470.25-73.95	32.75	363.55	-216.06	1.147e+06	-4.656e+04	7.314e+05	3.690e+05	5.686e+05
235	2262	16.63	332.91-6.84	77.22	248.85	-146.60	6.931e+05	-8.690e+04	4.740e+05	1.323e+05	3.506e+05
	261	18.98	316.01-113.57	120.82	81.62	-213.89	6.700e+05	-2.422e+05	1.675e+05	2.603e+05	4.537e+05
	290	22.05	337.30-112.95	120.18	104.18	-224.98	8.319e+05	-2.274e+05	2.153e+05	3.892e+05	5.225e+05
	291	20.03	345.50-61.10	30.98	253.42	-170.18	8.717e+05	-4.514e+04	5.413e+05	2.852e+05	4.401e+05
236	1261	24.10	417.57-95.14	54.84	267.59	-233.24	8.749e+05	-2.899e+05	5.069e+05	7.814e+04	5.415e+05
	260	26.25	367.38-225.55	118.41	23.42	-292.64	8.036e+05	-4.793e+05	5.909e+04	2.652e+05	6.331e+05
	289	30.57	404.85-225.47	130.84	48.53	-312.46	9.862e+05	-5.187e+05	9.579e+04	3.717e+05	7.397e+05
	290	28.71	429.12-162.02	0.65	266.45	-264.00	1.085e+06	-2.932e+05	5.722e+05	2.197e+05	6.662e+05
236	2261	18.50	309.77-82.23	46.12	181.42	-183.96	6.673e+05	-2.277e+05	3.717e+05	6.784e+04	4.209e+05
	260	20.10	270.63-182.01	95.02	-6.41	-220.56	6.109e+05	-3.719e+05	2.725e+04	2.117e+05	4.826e+05
	289	23.47	299.90-182.37	106.44	11.10	-236.37	7.481e+05	-4.084e+05	5.237e+04	2.873e+05	5.662e+05
	290	22.03	316.80-131.79	6.28	178.73	-207.06	8.246e+05	-2.354e+05	4.188e+05	1.704e+05	5.152e+05
237	1260	25.92	371.44-193.93	12.40	165.12	-272.18	8.062e+05	-4.652e+05	3.493e+05	-8348.95	6.100e+05
	259	26.89	293.42-308.53	80.00	-95.11	-287.96	6.936e+05	-6.309e+05	-1.284e+05	1.911e+05	6.427e+05
	288	31.51	341.57-311.62	107.83	-77.88	-313.12	8.332e+05	-7.337e+05	-1.232e+05	2.228e+05	7.641e+05
	289	30.57	376.56-253.07	-30.88	154.37	-300.88	9.759e+05	-5.302e+05	3.850e+05	6.063e+04	7.353e+05
237	2260	19.96	276.54-160.47	13.47	102.59	-213.91	6.156e+05	-3.638e+05	2.505e+05	1310.02	4.736e+05
	259	20.64	215.72-247.83	65.48	-97.58	-216.97	5.274e+05	-4.896e+05	-1.170e+05	1.547e+05	4.900e+05
	288	24.23	253.80-251.21	88.73	-86.15	-236.88	6.309e+05	-5.743e+05	-1.161e+05	1.727e+05	5.850e+05
	289	23.51	279.09-204.55	-17.96	92.51	-235.43	7.410e+05	-4.182e+05	2.749e+05	4.799e+04	5.684e+05
238	1259	27.04	313.63-291.57	-30.28	52.34	-299.77	7.062e+05	-6.261e+05	1.740e+05	-9.388e+04	6.526e+05
	258	26.75	210.78-384.98	38.36	-212.55	-270.17	5.568e+05	-7.604e+05	-3.129e+05	1.093e+05	6.238e+05
	287	31.53	269.99-393.50	80.65	-204.16	-299.62	6.434e+05	-9.196e+05	-3.400e+05	6.378e+04	7.550e+05
	288	31.60	314.23-342.50	-60.48	32.22	-325.08	8.238e+05	-7.470e+05	1.781e+05	-1.014e+05	7.729e+05
238	2259	20.89	234.04-237.55	-19.35	15.84	-235.14	5.399e+05	-4.887e+05	1.156e+05	-6.448e+04	5.063e+05
	258	20.60	154.22-308.70	33.44	-187.92	-203.28	4.233e+05	-5.904e+05	-2.589e+05	9.182e+04	4.755e+05
	287	24.30	201.24-316.70	67.82	-183.28	-226.50	4.853e+05	-7.177e+05	-2.828e+05	5.042e+04	5.780e+05
	288	24.35	233.70-275.90	-40.74	-1.46	-254.04	6.245e+05	-5.854e+05	1.157e+05	-7.664e+04	5.973e+05
239	1258	27.41	246.28-383.41	-71.38	-65.75	-314.84	5.792e+05	-7.655e+05	-1.155e+04	-1.748e+05	6.673e+05
	257	25.88	123.95-452.42	-4.74	-323.74	-240.03	3.994e+05	-8.626e+05	-4.865e+05	2.331e+04	5.772e+05
	286	30.66	193.73-468.03	50.45	-324.75	-272.57	4.251e+05	-1.068e+06	-5.449e+05	-9.834e+04	7.126e+05
	287	31.71	244.81-426.33	-86.93	-94.60	-335.55	6.354e+05	-9.343e+05	-3.957e+04	-2.594e+05	7.771e+05
239	2258	21.23	184.03-310.00	-50.97	-75.00	-246.72	4.432e+05	-5.970e+05	-2.708e+04	-1.267e+05	5.177e+05
	257	19.99	89.62-362.78	0.29	-273.45	-180.09	3.034e+05	-6.702e+05	-3.924e+05	2.566e+04	4.397e+05
	286	23.68	145.06-376.51	44.59	-276.04	-205.68	3.179e+05	-8.327e+05	-4.405e+05	-7.429e+04	5.454e+05
	287	24.48	182.74-342.82	-61.08	-99.01	-262.09	4.800e+05	-7.299e+05	-5.176e+04	-1.981e+05	6.005e+05
240	1257	27.00	172.33-465.47	-109.13	-184.01	-316.70	4.307e+05	-8.773e+05	-1.992e+05	-2.475e+05	5.536e+05
	256	24.38	38.17-509.40	-47.43	-423.79	-198.86	2.295e+05	-9.342e+05	-6.415e+05	-6.318e+04	5.049e+05
	285	28.99	117.09-532.94	18.52	-434.37	-233.14	1.883e+05	-1.174e+06	-7.292e+05	-2.566e+05	6.389e+05
	286	30.92	171.67-501.27	-109.07	-220.53	-331.82	4.190e+05	-1.084e+06	-2.586e+05	-4.064e+05	7.479e+05
240	2257	20.97	128.86-374.84	-80.01	-165.97	-248.15	3.301e+05	-6.842e+05	-1.714e+05	-1.826e+05	5.071e+05
	256	18.91	25.98-408.94	-32.55	-350.41	-148.43	1.742e+05	-7.267e+05	-5.117e+05	-4.087e+04	3.840e+05



285	22.45	88.54-428.87	20.04	-360.37	-175.36	1.363e+05-9.146e+05-5.823e+05-1.960e+054.887e+05
286	23.92	128.84-402.82	-78.11	-195.88	-259.23	3.141e+05-8.456e+05-2.203e+05-3.112e+055.780e+05
241	1310	28.00	-83.63-717.24	-703.41	-97.46	-92.59-7.801e+05-1.599e+06-1.026e+06-1.354e+063.752e+05
278	22.76	-182.53-674.70	-663.07	-194.15	-74.74	-4.866e+05-1.294e+06-6.020e+05-1.179e+062.826e+05
277	24.28	-81.43-664.05	-518.43	-227.06	-252.27	-2.590e+05-1.315e+06-6.941e+05-8.794e+055.196e+05
309	28.72	-45.67-704.79	-571.13	-179.33	-265.01	-4.815e+05-1.641e+06-1.098e+06-1.024e+065.786e+05
241	2310	21.88	-60.73-578.51	-569.62	-69.62	-67.28-6.141e+05-1.249e+06-7.944e+05-1.068e+062.861e+05
278	17.81	-138.78-543.81	-536.58	-146.02	-53.64	-3.777e+05-1.013e+06-4.607e+05-9.302e+052.141e+05
277	18.99	-63.18-533.46	-425.31	-171.33	-197.89	-2.041e+05-1.027e+06-5.316e+05-7.000e+054.029e+05
309	22.36	-33.24-567.22	-467.86	-132.60	-207.80	-3.846e+05-1.280e+06-8.501e+05-8.149e+054.476e+05
242	1311	27.88	-127.43-737.18	-736.53	-128.07	-19.78-1.046e+06-1.505e+06-1.145e+06-1.405e+061.894e+05
279	22.45	-222.12-689.73	-689.61	-222.23	-7.19	-6.584e+05-1.248e+06-6.854e+05-1.221e+061.233e+05
278	22.61	-152.81-688.49	-597.80	-243.51	-200.89	-4.793e+05-1.297e+06-7.436e+05-1.032e+063.823e+05
310	28.18	-101.66-730.89	-652.44	-180.11	-207.86	-7.830e+05-1.606e+06-1.191e+06-1.198e+064.117e+05
242	2311	21.82	-92.91-595.35	-595.10	-93.17	-11.27-8.163e+05-1.178e+06-8.866e+05-1.108e+061.432e+05
279	17.60	-167.61-557.00	-557.00	-167.62	-1.68	-5.065e+05-9.808e+05-5.249e+05-9.624e+059.156e+04
278	17.70	-116.22-554.13	-486.37	-183.98	-158.38	-3.715e+05-1.016e+06-5.696e+05-8.177e+052.973e+05
310	22.02	-74.34-589.27	-530.41	-133.19	-163.84	-6.157e+05-1.255e+06-9.218e+05-9.487e+053.192e+05
243	1312	27.87	-147.51-746.15	-741.16	-152.50	54.42-1.216e+06-1.399e+06-1.216e+06-1.399e+06 -4679.47
280	22.30	-232.07-697.67	-689.48	-240.25	61.20	-7.352e+05-1.216e+06-7.388e+05-1.212e+06-4.153e+04
279	22.36	-204.59-698.80	-654.52	-248.88	-141.16	-6.534e+05-1.250e+06-7.604e+05-1.143e+062.289e+05
311	27.98	-137.14-744.28	-709.01	-172.41	-142.02	-1.046e+06-1.510e+06-1.233e+06-1.323e+062.273e+05
243	2312	21.82	-107.68-602.93	-598.65	-111.96	45.81-9.408e+05-1.103e+06-9.410e+05-1.103e+06 -6102.70
280	17.49	-174.70-563.68	-556.89	-181.48	50.92	-5.628e+05-9.590e+05-5.660e+05-9.558e+05-3.521e+04
279	17.54	-154.46-563.66	-530.00	-188.11	-112.43	-5.023e+05-9.830e+05-5.826e+05-9.027e+051.793e+05
311	21.90	-100.23-600.97	-573.92	-127.27	-113.19	-8.162e+05-1.182e+06-9.541e+05-1.044e+061.774e+05
244	1313	27.96	-141.73-744.97	-716.98	-169.72	126.89-1.080e+06-1.490e+06-1.235e+06-1.335e+06-1.987e+05
281	22.33	-211.47-698.62	-662.58	-247.52	127.51	-6.728e+05-1.241e+06-7.599e+05-1.154e+06-2.048e+05
280	22.29	-230.43-698.71	-686.11	-243.03	-75.79	-7.348e+05-1.216e+06-7.441e+05-1.207e+066.619e+04
312	27.88	-148.18-746.72	-738.30	-156.60	-70.50	-1.216e+06-1.400e+06-1.222e+06-1.393e+063.371e+04
244	2313	21.88	-103.56-601.70	-580.06	-125.21	101.56-8.416e+05-1.168e+06-9.553e+05-1.054e+06-1.554e+05
281	17.51	-159.49-563.78	-536.20	-187.07	101.94	-5.167e+05-9.767e+05-5.822e+05-9.111e+05-1.608e+05
280	17.49	-173.48-564.44	-554.30	-183.62	-62.14	-5.625e+05-9.593e+05-5.701e+05-9.517e+055.418e+04
312	21.82	-108.18-603.39	-596.45	-115.12	-58.18	-9.406e+05-1.104e+06-9.457e+05-1.099e+062.844e+04
245	1314	28.12	-110.95-733.10	-665.04	-179.01	194.19-8.243e+05-1.592e+06-1.200e+06-1.216e+06-3.840e+05
282	22.52	-163.95-689.80	-610.04	-243.71	188.62	-5.088e+05-1.288e+06-7.478e+05-1.048e+06-3.592e+05
281	22.40	-226.12-691.22	-691.10	-226.24	-7.45	-6.773e+05-1.239e+06-6.953e+05-1.221e+06-9.889e+04
313	27.86	-133.38-739.00	-738.98	-133.40	3.77	-1.080e+06-1.485e+06-1.159e+06-1.406e+06-1.610e+05
245	2314	21.98	-81.13-591.32	-540.10	-132.35	153.33-6.474e+05-1.244e+06-9.289e+05-9.625e+05-2.979e+05
282	17.64	-124.40-555.52	-495.79	-184.14	148.94	-3.938e+05-1.009e+06-5.729e+05-8.300e+05-2.795e+05
281	17.56	-170.46-558.38	-558.14	-170.70	-9.58	-5.205e+05-9.744e+05-5.325e+05-9.624e+05-7.281e+04
313	21.81	-97.27-596.98	-596.98	-97.27	-1.04	-8.418e+05-1.163e+06-8.971e+05-1.108e+06-1.213e+05
246	1315	28.32	-58.50-709.06	-587.57	-179.98	253.53-5.281e+05-1.635e+06-1.115e+06-1.048e+06-5.526e+05
283	23.80	-95.56-667.69	-534.19	-229.05	241.98	-2.941e+05-1.310e+06-7.032e+05-9.007e+05-4.981e+05
282	22.67	-191.61-676.92	-669.21	-199.33	60.71	-5.159e+05-1.285e+06-6.162e+05-1.184e+06-2.590e+05
314	27.95	-94.17-720.63	-710.92	-103.88	77.37	-8.217e+05-1.585e+06-1.046e+06-1.361e+06-3.480e+05



246	2315	22.10	-42.68-570.93	-480.51	-133.10	198.97-4.204e+05-1.276e+06-8.631e+05-8.334e+05-4.276e+05
283	18.63		-73.65-536.66	-437.44	-172.86	189.99-2.310e+05-1.024e+06-5.386e+05-7.163e+05-3.864e+05
282	17.74		-145.36-545.94	-541.30	-150.00	42.86-3.999e+05-1.006e+06-4.717e+05-9.345e+05-1.959e+05
314	21.85		-68.46-581.49	-575.39	-74.56	55.57-6.460e+05-1.238e+06-8.104e+05-1.074e+06-2.652e+05
247	1316	30.73	10.60-671.17	-487.94	-172.63	302.23-2.093e+05-1.611e+06-9.820e+05-8.385e+05-6.972e+05
284	26.13		-12.98-629.54	-438.27	-204.25	285.21-5.533e+04-1.290e+06-6.280e+05-7.169e+05-6.155e+05
283	23.41		-131.26-653.64	-621.38	-163.51	125.74-3.025e+05-1.308e+06-5.104e+05-1.100e+06-4.072e+05
315	28.12		-34.47-690.22	-655.36	-69.33	147.12-5.232e+05-1.626e+06-8.893e+05-1.260e+06-5.193e+05
247	2316	23.86	8.21-539.53	-403.87	-127.44	236.44-1.757e+05-1.257e+06-7.609e+05-6.719e+05-5.388e+05
284	20.36		-12.05-505.39	-363.65	-153.78	223.24-4.880e+04-1.007e+06-4.808e+05-5.749e+05-4.767e+05
283	18.30		-101.07-525.90	-504.51	-122.45	92.88-2.381e+05-1.022e+06-3.903e+05-8.693e+05-3.099e+05
315	21.92		-24.50-556.13	-532.66	-47.98	109.23-4.173e+05-1.268e+06-6.896e+05-9.960e+05-3.970e+05
248	1285	28.15	77.48-574.33	-170.34	-326.50	-316.41 1.910e+05-1.222e+06-5.052e+05-5.256e+05-7.064e+05
284	25.73		-51.80-618.29	-120.39	-549.70	-184.79-6.427e+04-1.289e+06-9.702e+05-3.826e+05-5.370e+05
316	30.63		40.38-646.36	-31.28	-574.70	-209.95-2.026e+05-1.600e+06-1.108e+06-6.947e+05-6.675e+05
317	32.96		90.70-618.48	-157.25	-370.53	-338.18 1.168e+05-1.520e+06-5.960e+05-8.074e+05-8.116e+05
248	2285	21.85	55.67-461.05	-127.70	-277.68	-247.24 1.396e+05-9.537e+05-4.121e+05-4.020e+05-5.466e+05
284	20.02		-42.29-496.36	-89.27	-449.38	-138.30-5.651e+04-1.005e+06-7.698e+05-2.919e+05-4.098e+05
316	23.76		30.79-520.12	-18.72	-470.61	-157.56-1.712e+05-1.248e+06-8.791e+05-5.399e+05-5.109e+05
317	25.52		67.43-496.60	-115.61	-313.56	-264.08 7.483e+04-1.187e+06-4.853e+05-6.266e+05-6.268e+05
249	1286	29.60	170.02-502.64	-128.92	-203.69	-334.25 4.316e+05-1.107e+06-2.749e+05-4.006e+05-5.667e+05
285	27.80		39.59-568.73	-71.89	-457.25	-235.34 1.819e+05-1.222e+06-8.018e+05-2.383e+05-6.429e+05
317	32.86		124.57-588.43	8.54	-472.40	-263.19 1.251e+05-1.508e+06-9.113e+05-4.712e+05-5.861e+05
318	34.59		176.19-551.18	-134.61	-240.37	-359.82 4.357e+05-1.366e+06-3.312e+05-5.990e+05-8.908e+05
249	2286	22.91	125.06-404.11	-95.84	-183.21	-260.96 3.238e+05-8.645e+05-2.349e+05-3.058e+05-5.931e+05
285	21.55		25.74-455.97	-51.97	-378.26	-177.19 1.317e+05-9.529e+05-6.403e+05-1.810e+05-4.913e+05
317	25.42		93.15-473.15	11.92	-391.92	-198.51 8.061e+04-1.176e+06-7.279e+05-3.679e+05-6.022e+05
318	26.73		130.76-442.40	-98.20	-213.44	-280.73 3.199e+05-1.068e+06-2.816e+05-4.663e+05-6.877e+05
250	1287	30.30	259.46-416.44	-81.73	-75.25	-337.93 6.547e+05-9.489e+05-3.586e+04-2.584e+05-7.941e+05
286	29.32		136.21-504.41	-20.13	-348.07	-275.16 4.227e+05-1.108e+06-6.017e+05-8.393e+05-4.204e+05
318	34.49		212.39-516.92	48.42	-352.95	-304.47 4.452e+05-1.352e+06-6.787e+05-2.284e+05-8.701e+05
319	35.41		261.76-470.63	-105.66	-103.21	-366.19 7.334e+05-1.155e+06-5.577e+04-3.658e+05-9.314e+05
250	2287	23.40	192.11-336.06	-59.54	-84.41	-263.79 4.946e+05-7.421e+05-5.108e+04-1.964e+05-6.141e+05
286	22.66		97.95-404.38	-12.15	-294.28	-207.81 3.160e+05-8.646e+05-4.864e+05-6.223e+05-5.509e+05
318	26.62		158.28-415.72	42.60	-300.04	-230.26 3.266e+05-1.057e+06-5.490e+05-1.812e+05-6.668e+05
319	27.31		194.15-378.01	-75.93	-107.93	-285.63 5.488e+05-9.054e+05-6.978e+04-2.869e+05-7.189e+05
251	1288	30.16	341.18-318.80	-30.83	53.21	-327.30 8.501e+05-7.539e+05-2.013e+05-1.051e+05-7.872e+05
287	30.11		232.01-426.33	32.64	-226.96	-302.50 6.462e+05-9.512e+05-3.788e+05-7.384e+04-7.660e+05
319	35.32		298.53-433.48	86.62	-221.58	-331.98 7.435e+05-1.141e+06-4.203e+05-2.289e+04-9.158e+05
320	35.33		342.63-379.32	-71.63	34.95	-357.02 9.968e+05-8.966e+05-2.183e+05-1.181e+05-9.317e+05
251	2288	23.24	253.22-259.20	-20.38	14.40	-255.62 6.442e+05-5.914e+05-1.314e+05-7.854e+04-6.088e+05
287	23.21		169.68-342.35	28.44	-201.11	-228.85 4.872e+05-7.429e+05-3.148e+05-5.913e+04-5.860e+05
319	27.22		222.11-349.10	71.98	-198.98	-251.42 5.559e+05-8.940e+05-3.502e+05-1.210e+04-7.020e+05
320	27.21		253.91-305.32	-49.75	-1.65	-278.58 7.513e+05-7.066e+05-1.410e+05-9.633e+04-7.192e+05
252	1289	29.18	411.36-213.70	21.60	176.05	-302.84 1.009e+06-5.301e+05-4.264e+05-5.247e+04-7.465e+05
288	30.08		321.66-336.73	84.12	-99.20	-316.18 8.424e+05-7.569e+05-1.427e+05-2.282e+05-7.778e+05



320	35.25	378.27-340.79	121.50	-84.02	-344.53	1.007e+06	-8.827e+05	-1.475e+05	2.719e+05	9.214e+05	
321	34.33	414.73-280.69	-34.01	168.05	-332.71	1.215e+06	-6.021e+05	4.790e+05	1.335e+05	8.918e+05	
252	2289	22.44	305.36-176.51	19.95	108.90	-236.80	7.657e+05	-4.185e+05	3.045e+05	4.269e+04	5.775e+05
288	23.13	236.76-271.55	68.04	-102.83	-239.37	6.374e+05	-5.928e+05	-1.333e+05	1.778e+05	5.951e+05	
320	27.11	280.99-275.34	98.81	-93.17	-261.08	7.585e+05	-6.952e+05	-1.403e+05	2.036e+05	7.062e+05	
321	26.39	306.85-226.93	-20.82	100.73	-259.88	9.186e+05	-4.799e+05	3.416e+05	9.720e+04	6.885e+05	
253	1290	27.43	467.02-105.85	73.31	287.86	-265.59	1.125e+06	-2.875e+05	6.296e+05	2.076e+05	6.738e+05
289	29.20	400.57-238.87	132.11	29.58	-315.58	1.002e+06	-5.337e+05	9.622e+04	3.723e+05	7.555e+05	
321	34.26	447.65-242.42	151.56	53.68	-341.54	1.225e+06	-5.888e+05	1.279e+05	5.077e+05	8.866e+05	
322	32.50	474.81-179.00	5.60	290.21	-294.31	1.377e+06	-2.842e+05	7.151e+05	3.780e+05	8.135e+05	
253	2290	21.04	346.16-91.53	59.73	194.91	-208.15	8.540e+05	-2.311e+05	4.608e+05	1.620e+05	5.216e+05
289	22.41	295.61-194.42	104.96	-3.77	-238.91	7.597e+05	-4.204e+05	5.053e+04	2.887e+05	5.779e+05	
321	26.31	331.82-197.13	121.93	12.76	-258.78	9.256e+05	-4.690e+05	7.153e+04	3.851e+05	6.795e+05	
322	24.93	350.41-146.05	9.65	194.71	-230.34	1.044e+06	-2.352e+05	5.232e+05	2.853e+05	6.283e+05	
254	1291	25.06	506.45-0.62	122.12	383.71	-217.19	1.193e+06	-3.681e+04	8.022e+05	3.536e+05	5.723e+05
290	27.54	465.04-136.75	174.55	153.74	-300.72	1.119e+06	-2.914e+05	3.276e+05	5.001e+05	6.999e+05	
322	32.44	503.66-142.69	175.50	185.47	-323.14	1.386e+06	-2.720e+05	3.940e+05	7.203e+05	8.130e+05	
323	30.00	520.80-79.23	45.50	396.06	-243.49	1.478e+06	4.329e+04	9.164e+05	6.048e+05	7.002e+05	
254	2291	19.16	374.15-8.24	97.27	268.64	-170.92	9.053e+05	-3.740e+04	5.936e+05	2.743e+05	4.435e+05
290	21.08	343.30-113.96	137.60	91.74	-227.48	8.488e+05	-2.332e+05	2.285e+05	3.871e+05	5.352e+05	
322	24.86	372.21-117.73	140.35	114.13	-244.62	1.050e+06	-2.252e+05	2.762e+05	5.485e+05	6.228e+05	
323	22.96	382.90-66.42	40.35	276.13	-191.25	1.121e+06	1.687e+04	6.780e+05	4.598e+05	5.411e+05	
255	1291	25.24	512.47-35.04	267.77	209.67	272.21	1.188e+06	-4.075e+04	6.062e+05	5.413e+05	-6.137e+05
323	29.95	544.48-46.62	305.51	192.35	290.08	1.486e+06	5.390e+04	9.004e+05	6.391e+05	-7.038e+05	
324	27.14	552.0312.87	480.87	84.03	182.49	1.512e+06	3.662e+05	8.043e+05	1.074e+06	-5.569e+05	
292	22.34	529.5495.76	459.32	165.97	159.77	1.211e+06	2.099e+05	4.841e+05	9.367e+05	-4.464e+05	
255	2291	19.26	377.71-33.65	179.45	164.62	205.55	9.011e+05	-3.954e+04	4.686e+05	3.929e+05	-4.688e+05
323	22.90	400.70-40.91	206.48	153.31	219.19	1.126e+06	2.567e+04	6.871e+05	4.647e+05	-5.389e+05	
324	20.70	403.77 7.58	341.37	69.99	144.32	1.147e+06	2.654e+05	6.132e+05	7.994e+05	-4.309e+05	
292	17.00	389.0568.75	326.80	131.00	126.74	9.182e+05	1.536e+05	3.747e+05	6.970e+05	-3.467e+05	
256	1292	22.56	541.6560.97	366.69	235.94	231.28	1.208e+06	2.062e+05	6.858e+05	7.284e+05	-5.004e+05
324	27.10	569.8640.06	408.58	201.34	243.79	1.518e+06	3.749e+05	1.040e+06	8.528e+05	-5.639e+05	
325	25.70	569.7490.63	540.93	119.45	113.91	1.479e+06	6.705e+05	9.676e+05	1.182e+06	-3.899e+05	
293	20.78	538.71175.66	511.39	202.98	95.78	1.182e+06	4.390e+05	5.936e+05	1.028e+06	-3.017e+05	
256	2292	17.13	397.8042.57	255.54	184.82	174.06	9.151e+05	1.516e+05	5.299e+05	5.368e+05	-3.817e+05
324	20.65	417.0128.97	285.76	160.23	183.59	1.151e+06	2.727e+05	7.946e+05	6.291e+05	-4.313e+05	
325	19.44	414.0370.77	387.56	97.23	91.57	1.121e+06	4.998e+05	7.388e+05	8.824e+05	-3.024e+05	
293	15.71	392.63133.70	366.85	159.47	77.52	8.942e+05	3.317e+05	4.589e+05	7.670e+05	-2.353e+05	
257	1293	20.57	553.34145.07	446.11	252.30	179.67	1.181e+06	4.359e+05	7.356e+05	8.809e+05	-3.652e+05
325	25.84	581.50110.69	490.06	202.12	186.25	1.483e+06	6.769e+05	1.134e+06	1.026e+06	-3.994e+05	
326	25.41	577.38146.38	573.49	150.27	40.79	1.381e+06	9.426e+05	1.088e+06	1.235e+06	-2.062e+05	
294	20.31	540.08229.06	537.53	231.61	28.04	1.118e+06	6.301e+05	6.772e+05	1.071e+06	-1.442e+05	
257	2293	15.54	404.01110.03	316.63	197.41	134.36	8.921e+05	3.302e+05	5.682e+05	6.541e+05	-2.777e+05
325	19.55	422.5986.68	348.44	160.83	139.32	1.124e+06	5.054e+05	8.666e+05	7.625e+05	-3.047e+05	
326	19.19	416.83116.73	412.61	120.95	35.32	1.045e+06	7.098e+05	8.313e+05	9.235e+05	-1.611e+05	
294	15.31	390.06178.40	386.96	181.49	25.42	8.415e+05	4.823e+05	5.233e+05	8.005e+05	-1.142e+05	



258	1294	20.18	551.29209.29	502.51	258.07	119.60	1.118e+06	6.280e+05	7.534e+05	9.923e+05	-2.138e+05
326	25.49		583.34157.64	546.34	194.65	119.93	1.382e+06	9.466e+05	1.177e+06	1.152e+06	-2.173e+05
327	25.33		579.82172.38	577.04	175.16	-33.57	1.235e+06	1.157e+06	1.160e+06	1.232e+06	-1.388e+04
295	20.09		542.11245.06	536.53	250.64	-40.35	1.067e+06	7.304e+05	7.315e+05	1.066e+06	1.907e+04
258	2294	15.21	399.36162.50	360.02	201.85	88.15	8.403e+05	4.814e+05	5.819e+05	7.398e+05	-1.612e+05
326	19.25		421.05125.76	391.73	155.08	88.31	1.045e+06	7.135e+05	8.998e+05	8.590e+05	-1.647e+05
327	19.11		417.07138.36	415.34	140.09	-21.88	9.255e+05	8.822e+05	8.866e+05	9.211e+05	-1.318e+04
295	15.13		390.00192.32	386.19	196.13	-27.20	7.968e+05	5.645e+05	5.650e+05	7.962e+05	1.141e+04
259	1309	28.63	-20.51-684.76	-643.27	-62.01	-160.76	-4.763e+05	-1.632e+06	-8.616e+05	-1.246e+06	5.447e+05
277	23.88		-118.27-649.94	-611.03	-157.18	-138.47	-2.674e+05	-1.313e+06	-4.920e+05	-1.088e+06	4.293e+05
276	26.61		2.89-623.06	-419.99	-200.18	-293.05	-1.649e+04	-1.288e+06	-6.141e+05	-6.904e+05	56.346e+05
308	31.25		25.59-664.40	-468.72	-170.09	-311.01	-1.587e+05	-1.608e+06	-9.576e+05	-8.086e+05	57.206e+05
259	2309	22.28	-14.21-551.50	-523.35	-42.35	-119.71	-3.813e+05	-1.273e+06	-6.683e+05	-9.855e+05	4.165e+05
277	18.66		-91.55-522.57	-496.54	-117.57	-102.67	-2.114e+05	-1.025e+06	-3.761e+05	-8.605e+05	53.270e+05
276	20.72		-0.21-500.04	-349.59	-150.65	-229.27	-1.906e+04	-1.006e+06	-4.700e+05	-5.546e+05	4.914e+05
308	24.26		19.32-533.89	-389.08	-125.49	-243.19	-1.367e+05	-1.254e+06	-7.421e+05	-6.489e+05	55.568e+05
260	1307	33.44	106.43-608.96	-152.82	-349.71	343.88	1.703e+05	-1.507e+06	-5.598e+05	-7.763e+05	-8.314e+05
308	31.16		56.35-638.42	-23.27	-558.80	221.31	-1.516e+05	-1.596e+06	-1.087e+06	-6.608e+05	-6.902e+05
276	26.22		-36.31-612.39	-112.89	-535.81	195.58	-2.547e+04	-1.287e+06	-9.524e+05	-3.604e+05	-5.572e+05
275	28.59		93.88-564.74	-164.05	-306.81	321.49	2.322e+05	-1.213e+06	-4.734e+05	-5.072e+05	-7.223e+05
260	2307	25.88	79.14-488.89	-112.21	-297.54	268.47	1.161e+05	-1.176e+06	-4.575e+05	-6.027e+05	-6.421e+05
308	24.16		42.64-513.57	-12.56	-458.38	166.29	-1.319e+05	-1.245e+06	-8.631e+05	-5.138e+05	-5.284e+05
276	20.39		-30.81-491.37	-83.50	-438.68	146.60	-2.681e+04	-1.004e+06	-7.561e+05	-2.749e+05	-4.253e+05
275	22.18		67.97-453.37	-122.86	-262.53	251.14	1.712e+05	-9.466e+05	-3.877e+05	-3.878e+05	-5.589e+05
261	1306	34.97	191.28-538.90	-128.23	-219.39	362.23	4.906e+05	-1.342e+06	-2.892e+05	-5.618e+05	-9.059e+05
307	33.34		141.05-577.79	17.11	-453.85	271.54	1.790e+05	-1.494e+06	-8.830e+05	-4.319e+05	-8.054e+05
275	28.24		56.19-560.13	-63.13	-440.82	243.52	2.230e+05	-1.213e+06	-7.774e+05	-2.127e+05	-6.603e+05
274	29.94		185.83-489.92	-120.20	-183.90	336.37	4.738e+05	-1.090e+06	-2.380e+05	-3.778e+05	-7.785e+05
261	2306	27.01	142.04-432.62	-93.29	-197.29	282.59	3.622e+05	-1.049e+06	-2.493e+05	-4.376e+05	-6.994e+05
307	25.78		105.44-464.58	18.51	-377.64	204.93	1.220e+05	-1.166e+06	-7.061e+05	-3.377e+05	-6.170e+05
275	21.88		38.15-448.99	-45.23	-365.61	183.48	1.632e+05	-9.461e+05	-6.215e+05	-1.613e+05	-5.047e+05
274	23.17		136.98-394.09	-89.13	-167.98	262.59	3.561e+05	-8.509e+05	-2.065e+05	-2.883e+05	-6.021e+05
262	1305	35.66	275.02-455.86	-97.47	-83.37	365.37	7.877e+05	-1.120e+06	-8429.87	-3.236e+05	-9.406e+05
306	34.87		227.95-503.62	57.32	-333.00	309.37	5.003e+05	-1.328e+06	-6.426e+05	-1.849e+05	-8.850e+05
274	29.67		152.63-492.90	-10.09	-330.19	280.29	4.648e+05	-1.091e+06	-5.705e+05	-5.570e+04	-7.341e+05
273	30.50		273.61-400.79	-70.64	-56.54	337.13	6.963e+05	-9.225e+05	5528.37	-2.318e+05	-8.007e+05
262	2305	27.50	204.09-366.38	-69.63	-92.66	285.00	5.905e+05	-8.783e+05	-3.335e+04	-2.544e+05	-7.260e+05
306	26.91		169.92-405.16	49.44	-284.68	234.03	3.690e+05	-1.038e+06	-5.212e+05	-1.477e+05	-6.783e+05
274	22.92		110.31-395.25	-4.43	-280.51	211.76	3.483e+05	-8.511e+05	-4.623e+05	-4.051e+04	-5.614e+05
273	23.55		202.84-323.86	-51.01	-70.02	263.18	5.265e+05	-7.217e+05	-1.922e+04	-1.760e+05	-6.192e+05
263	1304	35.42	353.20-362.53	-61.96	52.63	353.25	1.048e+06	-8.506e+05	2.695e+05	-7.238e+04	-9.336e+05
305	35.57		311.93-417.86	95.61	-201.55	333.28	7.979e+05	-1.105e+06	-3.766e+05	56.901e+04	-9.252e+05
273	30.33		247.10-411.98	43.87	-208.75	304.38	6.877e+05	-9.249e+05	-3.408e+05	1.037e+05	-7.751e+05
272	30.21		352.81-300.69	-17.74	69.85	323.80	8.889e+05	-7.187e+05	2.459e+05	-7.576e+04	-7.875e+05
263	2304	27.26	261.83-292.19	-42.32	11.96	275.68	7.903e+05	-6.711e+05	1.804e+05	-6.117e+04	-7.207e+05
305	27.40		232.16-336.83	78.90	-183.56	252.42	5.977e+05	-8.667e+05	-3.165e+05	4.760e+04	-7.092e+05



273	23.37	181.11-331.13	37.08	-187.10	230.29	5.190e+05-7.226e+05-2.856e+058.210e+04-5.929e+05
272	23.27	262.07-245.17	-10.31	27.21	252.92	6.739e+05-5.642e+05 1.657e+05-5.594e+04-6.091e+05
264	1303	34.24	422.15-262.54	-23.33	182.94	326.44 1.259e+06-5.465e+05 5.313e+05 1.807e+05-8.853e+05
304	35.33	388.59-323.43	130.24	-65.07	342.35	1.058e+06-8.364e+05-9.704e+043.185e+05-9.241e+05
272	30.14	334.47-319.88	96.26	-81.66	314.85	8.810e+05-7.216e+05-9.884e+042.582e+05-7.812e+05
271	29.07	419.81-193.80	36.00	190.01	296.98	1.042e+06-4.872e+05 4.718e+05 8.340e+04-7.398e+05
264	2303	26.31	312.37-212.78	-12.60	112.20	255.05 9.524e+05-4.370e+05 3.819e+05 1.335e+05-6.835e+05
304	27.17	288.73-261.78	105.53	-78.59	259.40	7.975e+05-6.595e+05-1.015e+052.395e+05-7.083e+05
272	23.17	246.52-258.49	77.37	-89.34	238.35	6.670e+05-5.655e+05-9.951e+042.010e+05-5.977e+05
271	22.34	311.81-161.15	31.03	119.64	232.29	7.913e+05-3.854e+05 3.395e+05 6.649e+04-5.723e+05
265	1302	32.23	479.04-160.20	16.68	302.15	285.98 1.411e+06-2.215e+05 7.648e+05 4.244e+05-7.981e+05
303	34.16	454.43-224.04	159.66	70.73	336.31	1.268e+06-5.329e+05 1.828e+05 5.525e+05-8.813e+05
271	29.09	410.40-220.09	144.58	45.73	311.34	1.036e+06-4.905e+05 1.439e+05 4.011e+05-7.521e+05
300	27.15	471.94-85.03	88.02	298.89	257.75	1.150e+06-2.389e+05 6.726e+05 2.386e+05-6.597e+05
265	2302	24.72	353.46-131.38	18.18	203.90	223.93 1.069e+06-1.868e+05 5.614e+05 3.210e+05-6.164e+05
303	26.22	336.85-182.81	128.16	25.88	254.75	9.591e+05-4.259e+05 1.137e+05 4.195e+05-6.754e+05
271	22.31	303.12-179.92	114.54	8.66	235.65	7.851e+05-3.870e+05 8.725e+04 3.109e+05-5.753e+05
300	20.81	349.89-75.46	71.04	203.39	202.12	8.733e+05-1.935e+05 4.939e+05 1.859e+05-5.107e+05
266	1301	29.60	522.11-60.66	56.32	405.12	233.43 1.498e+06 1.095e+05 9.592e+05 6.480e+05-6.765e+05
302	32.16	506.85-124.11	182.48	200.26	315.36	1.419e+06-2.091e+05 4.495e+05 7.606e+05-7.991e+05
300	27.26	471.42-116.81	186.49	168.13	293.97	1.144e+06-2.424e+05 3.760e+05 5.259e+05-6.892e+05
299	24.66	507.7820.01	136.00	391.80	207.66	1.208e+06 1.440e+04 8.390e+05 3.829e+05-5.513e+05
266	2301	22.64	383.63-51.86	48.67	283.10	183.51 1.136e+06 6.787e+04 7.110e+05 4.930e+05-5.229e+05
302	24.63	374.47-103.23	145.72	125.52	238.63	1.075e+06-1.767e+05 3.189e+05 5.796e+05-6.122e+05
300	20.86	348.16-98.57	146.79	102.81	222.28	8.679e+05-1.953e+05 2.658e+05 4.069e+05-5.269e+05
299	18.83	375.04 7.76	107.94	274.86	163.58	9.166e+05 2242.92 6.219e+05 2.969e+05-4.273e+05
267	1298	21.87	527.82114.71	464.60	177.92	-148.72 1.214e+06 2.600e+05 5.100e+05 9.645e+05 4.197e+05
330	26.67	551.0730.01	487.23	93.86	-170.85	1.517e+06 4.315e+05 8.416e+05 1.107e+06 5.262e+05
301	29.54	544.45-28.76	318.04	197.66	-280.22	1.505e+06 1.202e+05 9.338e+05 6.911e+05 6.816e+05
299	24.84	515.23-14.91	280.30	220.02	-263.35	1.203e+06 1.093e+04 6.272e+05 5.869e+05 5.958e+05
267	2298	16.62	387.4283.64	330.87	140.19	-118.24 9.206e+05 1.925e+05 3.946e+05 7.185e+05 3.261e+05
330	20.32	402.6321.18	346.26	77.55	-135.37	1.151e+06 3.158e+05 6.419e+05 8.244e+05 4.073e+05
301	22.56	400.39-26.88	216.11	157.39	-211.61	1.141e+06 7.673e+04 7.129e+05 5.048e+05 5.218e+05
299	18.93	379.74-18.07	189.09	172.58	-198.73	9.123e+05 479.51 4.848e+05 4.280e+05 4.550e+05
268	1297	20.73	535.39190.65	513.80	212.24	-83.53 1.175e+06 4.836e+05 6.144e+05 1.044e+06 2.708e+05
329	25.67	567.66104.62	544.47	127.81	-101.00	1.468e+06 7.307e+05 9.969e+05 1.202e+06 3.542e+05
330	26.62	567.3955.97	418.77	204.58	-232.20	1.522e+06 4.401e+05 1.065e+06 8.972e+05 5.345e+05
298	22.08	541.0480.01	377.22	243.83	-220.65	1.212e+06 2.568e+05 7.009e+05 7.675e+05 4.762e+05
268	2297	15.66	389.51145.79	368.71	166.60	-68.10 8.882e+05 3.666e+05 4.749e+05 7.798e+05 2.116e+05
329	19.41	411.9282.04	390.29	103.66	-81.64	1.113e+06 5.462e+05 7.613e+05 8.976e+05 2.749e+05
330	20.27	414.6941.63	293.60	162.72	-174.67	1.154e+06 3.230e+05 8.137e+05 6.633e+05 4.086e+05
298	16.75	397.1057.44	263.64	190.89	-165.89	9.175e+05 1.909e+05 5.415e+05 5.669e+05 3.631e+05
269	1296	20.27	537.79236.90	537.04	237.65	-15.01 1.106e+06 6.619e+05 6.917e+05 1.076e+06 1.111e+05
328	25.40	575.85154.97	574.11	156.71	-26.99	1.355e+06 9.938e+05 1.107e+06 1.241e+06 1.676e+05
329	25.80	577.91122.88	497.80	202.99	-173.30	1.471e+06 7.368e+05 1.148e+06 1.060e+06 3.645e+05
297	20.53	550.29161.19	454.44	257.04	-167.65	1.174e+06 4.810e+05 7.437e+05 9.108e+05 3.361e+05





269	2296	15.28	387.76184.97	386.59	186.14	-15.39	8.307e+05	5.078e+05	5.344e+05	8.041e+05	8.873e+04
328	19.17		415.20123.79	413.09	125.90	-24.71	1.025e+06	7.495e+05	8.462e+05	9.281e+05	1.314e+05
329	19.51		419.3196.58	354.39	161.49	-129.37	1.115e+06	5.516e+05	8.778e+05	7.884e+05	2.779e+05
297	15.50		401.25122.86	323.05	201.06	-125.12	8.862e+05	3.654e+05	5.744e+05	6.772e+05	2.553e+05
270	1295	20.08	543.20243.17	533.20	253.17	53.85	1.067e+06	7.302e+05	7.387e+05	1.058e+06	-5.281e+04
327	25.34		580.44173.61	574.73	179.33	47.88	1.235e+06	1.158e+06	1.168e+06	1.225e+06	-2.568e+04
328	25.47		580.43163.97	551.36	193.04	-106.12	1.356e+06	9.975e+05	1.180e+06	1.173e+06	1.792e+05
296	20.17		547.79219.87	508.32	259.34	-106.70	1.105e+06	6.603e+05	7.541e+05	1.012e+06	1.816e+05
270	2295	15.12	390.95190.76	383.63	198.08	37.57	7.968e+05	5.644e+05	5.706e+05	7.906e+05	-3.736e+04
327	19.12		417.51139.35	413.57	143.29	32.88	9.245e+05	8.836e+05	8.930e+05	9.151e+05	-1.725e+04
328	19.23		418.40131.03	395.59	153.84	-77.68	1.025e+06	7.530e+05	9.024e+05	8.755e+05	1.353e+05
296	15.20		396.15171.17	364.50	202.82	-78.23	8.298e+05	5.072e+05	5.824e+05	7.547e+05	1.364e+05
271	1338	37.37	96.50-669.85	-194.37	-378.98	371.89	1.053e+05	-1.900e+06	-7.065e+05	-1.088e+06	-9.844e+05
339	35.41		38.42-703.73	-57.84	-607.47	249.35	-3.123e+05	-2.040e+06	-1.354e+06	-9.985e+05	-8.453e+05
308	29.74		-64.40-679.21	-161.87	-581.74	224.56	-1.681e+05	-1.668e+06	-1.200e+06	-6.357e+05	-6.948e+05
307	31.75		81.38-621.09	-206.95	-332.76	345.56	1.725e+05	-1.544e+06	-6.079e+05	-7.634e+05	-8.547e+05
271	2338	28.93	69.48-537.19	-145.19	-322.52	290.09	5.779e+04	-1.486e+06	-5.770e+05	-8.510e+05	-7.596e+05
339	27.46		26.97-565.42	-40.16	-498.28	187.79	-2.640e+05	-1.593e+06	-1.075e+06	-7.818e+05	-6.479e+05
308	23.09		-54.67-544.02	-122.41	-476.27	169.00	-1.442e+05	-1.302e+06	-9.531e+05	-4.933e+05	-5.315e+05
307	24.59		56.09-497.93	-157.09	-284.75	269.55	1.176e+05	-1.207e+06	-4.974e+05	-5.915e+05	-6.604e+05
272	1340	33.62	-54.15-751.82	-699.21	-106.76	-184.22	-7.290e+05	-2.105e+06	-1.280e+06	-1.554e+06	66.740e+05
309	27.69		-163.65-717.06	-663.48	-217.23	-163.65	-4.955e+05	-1.712e+06	-8.333e+05	-1.374e+06	65.447e+05
308	29.74		-27.52-683.40	-455.73	-255.18	-312.23	-1.664e+05	-1.655e+06	-9.395e+05	-8.819e+05	7.438e+05
339	35.41		-0.47-728.58	-508.41	-220.63	-334.42	-3.215e+05	-2.050e+06	-1.355e+06	-1.017e+06	68.474e+05
272	2340	26.26	-41.83-604.82	-568.85	-77.80	-137.69	-5.847e+05	-1.642e+06	-9.981e+05	-1.229e+06	65.161e+05
309	21.63		-128.65-575.49	-539.15	-165.00	-122.14	-3.950e+05	-1.337e+06	-6.453e+05	-1.087e+06	64.160e+05
308	23.11		-25.87-547.66	-379.34	-194.19	-243.92	-1.424e+05	-1.293e+06	-7.270e+05	-7.082e+05	65.751e+05
339	27.47		-2.65-584.82	-422.08	-165.39	-261.26	-2.706e+05	-1.601e+06	-1.056e+06	-8.157e+05	65.542e+05
273	1341	33.99	-131.39-783.76	-764.49	-150.65	-110.43	-1.116e+06	-2.080e+06	-1.507e+06	-1.690e+06	64.732e+05
310	27.67		-243.90-739.01	-720.04	-262.86	-95.02	-7.969e+05	-1.688e+06	-9.951e+05	-1.490e+06	63.707e+05
309	27.42		-129.14-725.53	-562.70	-291.97	-265.70	-4.966e+05	-1.699e+06	-1.075e+06	-1.120e+06	66.007e+05
340	33.85		-86.85-769.88	-619.86	-236.87	-282.78	-7.366e+05	-2.112e+06	-1.563e+06	-1.286e+06	66.737e+05
273	2341	26.59	-98.97-631.66	-619.07	-111.56	-80.93	-8.826e+05	-1.624e+06	-1.173e+06	-1.333e+06	63.617e+05
310	21.65		-187.91-594.85	-582.66	-200.10	-69.35	-6.252e+05	-1.321e+06	-7.697e+05	-1.176e+06	62.822e+05
309	21.38		-102.03-582.08	-461.63	-222.48	-208.12	-3.954e+05	-1.327e+06	-8.314e+05	-8.914e+05	64.650e+05
340	26.45		-66.63-619.06	-507.81	-177.88	-221.54	-5.899e+05	-1.649e+06	-1.216e+06	-1.022e+06	65.206e+05
274	1342	34.26	-185.97-801.98	-800.40	-187.55	-31.20	-1.457e+06	-1.968e+06	-1.670e+06	-1.756e+06	62.518e+05
311	27.59		-295.76-749.94	-748.90	-296.80	-21.67	-1.048e+06	-1.611e+06	-1.114e+06	-1.545e+06	61.804e+05
310	27.34		-215.84-748.82	-648.98	-315.68	-207.95	-8.005e+05	-1.677e+06	-1.165e+06	-1.312e+06	64.318e+05
341	34.17		-155.43-795.29	-708.40	-242.32	-219.20	-1.122e+06	-2.085e+06	-1.706e+06	-1.502e+06	64.709e+05
274	2342	26.82	-139.16-647.48	-646.69	-139.95	-19.98	-1.145e+06	-1.537e+06	-1.298e+06	-1.384e+06	61.914e+05
311	21.62		-225.76-605.30	-604.86	-226.20	-12.93	-8.154e+05	-1.264e+06	-8.612e+05	-1.218e+06	61.358e+05
310	21.41		-166.58-602.14	-527.99	-240.72	-163.70	-6.275e+05	-1.312e+06	-9.001e+05	-1.039e+06	63.351e+05
341	26.73		-117.12-640.88	-575.92	-182.07	-172.63	-8.862e+05	-1.628e+06	-1.326e+06	-1.189e+06	63.646e+05
275	1343	34.39	-211.64-809.51	-805.31	-215.84	49.94	-1.735e+06	-1.776e+06	-1.762e+06	-1.749e+06	61.959e+04
312	27.50		-311.15-755.21	-748.76	-317.59	53.12	-1.184e+06	-1.537e+06	-1.185e+06	-1.536e+06	-1.771e+04



311	27.41	-278.97-757.05	-710.68	-325.35	-141.49-1.053e+06-1.601e+06-1.204e+06-1.451e+06	2.446e+05	
342	34.36	-199.19-807.64	-770.09	-236.75	-146.42-1.460e+06-1.971e+06-1.775e+06-1.656e+06	2.482e+05	
275	2343	26.93	-158.05-654.12	-650.47	-161.71	42.43-1.360e+06-1.388e+06-1.369e+06-1.379e+06	1.274e+04
312	21.56	-236.79-610.16	-604.75	-242.20	44.60-9.148e+05-1.212e+06-9.158e+05-1.211e+06	1.659e+04	
311	21.48	-213.18-610.44	-575.45	-248.16	-112.57-8.186e+05-1.257e+06-9.303e+05-1.146e+06	1.911e+05	
342	26.90	-149.10-652.06	-623.37	-177.78	-116.64-1.147e+06-1.540e+06-1.379e+06-1.307e+06	1.932e+05	
276	1344	34.37	-205.06-808.16	-778.90	-234.32	129.57-1.504e+06-1.945e+06-1.779e+06-1.671e+06	2.136e+05
313	27.41	-287.56-756.41	-719.53	-324.44	126.22-1.083e+06-1.586e+06-1.205e+06-1.464e+06	2.153e+05	
312	27.49	-309.59-756.09	-745.05	-320.63	-69.35-1.185e+06-1.536e+06-1.191e+06-1.530e+06	4.747e+04	
343	34.40	-212.63-809.90	-802.11	-220.42	-67.76-1.735e+06-1.776e+06-1.769e+06-1.742e+06	1.522e+04	
276	2344	26.91	-153.37-652.70	-630.15	-175.92	103.69-1.181e+06-1.520e+06-1.382e+06-1.319e+06	1.667e+05
313	21.48	-219.44-610.29	-582.27	-247.46	100.83-8.410e+05-1.246e+06-9.312e+05-1.156e+06	1.686e+05	
312	21.55	-235.64-610.79	-601.90	-244.54	-57.09-9.153e+05-1.212e+06-9.207e+05-1.206e+06	3.949e+04	
343	26.94	-158.78-654.45	-648.01	-165.23	-56.14-1.360e+06-1.388e+06-1.375e+06-1.374e+06	1.405e+04	
277	1345	34.18	-167.24-797.25	-722.32	-242.17	203.94-1.174e+06-2.070e+06-1.720e+06-1.524e+06	4.374e+05
314	27.31	-229.88-749.60	-662.46	-317.01	194.15-8.415e+05-1.664e+06-1.173e+06-1.332e+06	4.035e+05	
313	27.56	-301.68-750.60	-750.54	-301.75	5.52-1.079e+06-1.594e+06-1.128e+06-1.545e+06	1.513e+05	
344	34.28	-193.75-803.35	-803.04	-194.05	13.56-1.502e+06-1.943e+06-1.688e+06-1.756e+06	2.180e+05	
277	2345	26.75	-125.78-642.80	-586.63	-181.96	160.89-9.263e+05-1.616e+06-1.337e+06-1.206e+06	3.388e+05
314	21.39	-176.92-603.20	-538.37	-241.75	153.08-6.588e+05-1.303e+06-9.068e+05-1.055e+06	3.134e+05	
313	21.60	-230.01-606.12	-606.12	-230.01	0.51-8.379e+05-1.252e+06-8.717e+05-1.218e+06	1.134e+05	
344	26.84	-144.86-648.81	-648.73	-144.94	6.42-1.179e+06-1.518e+06-1.312e+06-1.385e+06	1.653e+05	
278	1346	33.86	-102.92-774.15	-637.99	-239.08	269.92-7.954e+05-2.109e+06-1.589e+06-1.315e+06	6.421e+05
315	27.23	-146.72-729.02	-580.03	-295.71	254.08-5.441e+05-1.694e+06-1.091e+06-1.146e+06	5.742e+05	
314	27.62	-256.14-740.29	-726.81	-269.62	79.66-8.377e+05-1.675e+06-1.016e+06-1.497e+06	3.427e+05	
345	34.02	-144.85-786.74	-772.74	-158.85	93.77-1.169e+06-2.065e+06-1.536e+06-1.698e+06	4.410e+05	
278	2346	26.46	-78.52-622.82	-521.76	-179.58	211.65-6.352e+05-1.646e+06-1.236e+06-1.045e+06	4.963e+05
315	21.29	-115.11-585.22	-474.96	-225.37	199.19-4.318e+05-1.324e+06-8.438e+05-9.117e+05	4.447e+05	
314	21.62	-196.83-596.33	-587.86	-205.29	57.54-6.563e+05-1.311e+06-7.856e+05-1.182e+06	2.607e+05	
345	26.61	-108.88-634.40	-625.42	-117.87	68.12-9.229e+05-1.612e+06-1.195e+06-1.340e+06	3.369e+05	
279	1347	34.91	-18.92-735.87	-529.57	-225.22	324.57-3.860e+05-2.058e+06-1.391e+06-1.054e+06	8.188e+05
316	29.24	-46.94-690.36	-475.80	-261.50	303.34-2.184e+05-1.659e+06-9.630e+05-9.148e+05	7.201e+05	
315	27.63	-180.26-720.32	-674.90	-225.67	149.88-5.426e+05-1.706e+06-8.606e+05-1.388e+06	5.186e+05	
346	33.64	-71.57-757.30	-712.51	-116.36	169.43-7.881e+05-2.101e+06-1.318e+06-1.571e+06	6.442e+05	
279	2347	27.10	-16.40-590.88	-438.37	-168.91	253.69-3.203e+05-1.607e+06-1.083e+06-8.440e+05	6.322e+05
316	22.73	-40.43-553.40	-394.78	-199.05	237.08-1.824e+05-1.296e+06-7.450e+05-7.335e+05	5.569e+05	
315	21.59	-140.91-578.51	-547.94	-171.49	111.56-4.311e+05-1.333e+06-6.663e+05-1.098e+06	3.960e+05	
346	26.28	-54.75-609.52	-579.09	-85.18	126.32-6.302e+05-1.640e+06-1.028e+06-1.242e+06	4.932e+05	
280	1317	31.29	61.66-631.85	-215.85	-354.35	-339.77 1.173e+05-1.558e+06-6.476e+05-7.936e+05	8.347e+05
316	29.24	-83.44-685.47	-171.85	-597.07	-213.09-2.197e+05-1.672e+06-1.223e+06-6.690e+05	6.713e+05	
347	34.91	18.94-712.35	-68.43	-624.98	-237.19-3.770e+05-2.048e+06-1.379e+06-1.046e+06	8.188e+05	
348	36.91	77.52-680.51	-201.14	-401.85	-365.49 3.650e+04-1.921e+06-7.509e+05-1.134e+06	9.600e+05	
280	2317	24.25	41.22-506.50	-163.93	-301.36	-265.10 7.517e+04-1.218e+06-5.280e+05-6.147e+05	6.451e+05
316	22.71	-68.88-549.27	-130.08	-488.07	-160.17-1.838e+05-1.306e+06-9.705e+05-5.189e+05	5.134e+05	
347	27.08	12.43-572.49	-48.31	-511.76	-178.43-3.140e+05-1.599e+06-1.095e+06-8.183e+05	6.275e+05	
348	28.58	55.27-545.78	-150.39	-340.12	-285.16 4809.02-1.502e+06-6.112e+05-8.860e+05	7.408e+05	



281 1318 32.80	172.17-553.91	-160.84	-220.89	-361.80	4.472e+05-1.394e+06-3.562e+05-5.908e+059.132e+05
317 31.28	25.53-632.74	-110.56	-496.65	-266.58	1.132e+05-1.571e+06-1.008e+06-4.495e+057.943e+05
348 36.90	119.40-650.53	-17.23	-513.90	-294.16	4.674e+04-1.910e+06-1.132e+06-7.304e+059.573e+05
349 38.39	179.48-607.79	-168.01	-260.29	-390.92	4.538e+05-1.704e+06-4.202e+05-8.303e+051.059e+06
281 2318 25.35	124.50-444.82	-121.62	-198.70	-282.04	3.284e+05-1.091e+06-3.038e+05-4.588e+057.054e+05
317 24.22	12.74-506.51	-82.94	-410.82	-201.32	7.154e+04-1.227e+06-8.053e+05-3.501e+056.080e+05
348 28.55	87.26-522.49	-8.92	-426.31	-222.26	1.209e+04-1.492e+06-9.047e+05-5.757e+057.340e+05
349 29.66	131.26-487.40	-124.91	-231.23	-304.73	3.259e+05-1.335e+06-3.569e+05-6.524e+058.173e+05
282 1319 33.55	278.48-458.63	-98.84	-81.31	-368.45	7.562e+05-1.173e+06-5.356e+04-3.635e+059.522e+05
318 32.76	138.97-561.50	-44.49	-378.05	-307.98	4.403e+05-1.405e+06-7.536e+05-2.116e+058.822e+05
349 38.35	222.99-572.09	35.04	-384.14	-337.81	4.648e+05-1.691e+06-8.407e+05-3.856e+051.054e+06
350 39.13	280.62-519.00	-127.23	-111.15	-399.73	8.478e+05-1.417e+06-7.597e+04-4.930e+051.113e+06
282 2319 25.89	204.66-369.92	-73.93	-91.33	-287.16	5.656e+05-9.206e+05-7.104e+04-2.839e+057.355e+05
318 25.31	98.06-449.76	-32.11	-319.59	-233.17	3.226e+05-1.099e+06-6.095e+05-1.671e+056.756e+05
349 29.61	164.56-459.78	31.28	-326.49	-255.83	3.337e+05-1.324e+06-6.803e+05-3.104e+058.082e+05
350 30.17	206.69-416.73	-93.54	-116.50	-311.50	6.290e+05-1.114e+06-9.203e+04-3.930e+058.584e+05
283 1320 33.47	375.16-349.41	-32.53	58.28	-359.43	1.031e+06-9.050e+05 2.472e+05-1.216e+05 9.501e+05
319 33.50	250.15-473.11	23.50	-246.46	-335.49	7.467e+05-1.183e+06-4.704e+053.429e+04 9.312e+05
350 39.07	323.52-478.81	86.08	-241.37	-366.23	8.589e+05-1.403e+06-5.170e+05-2.653e+041.104e+06
351 39.03	375.31-416.83	-80.57	39.05	-391.53	1.201e+06-1.071e+06 2.669e+05-1.367e+05 1.118e+06
283 2320 25.77	277.47-284.33	-22.92	16.05	-280.22	7.763e+05-7.139e+05 1.603e+05-9.783e+04 7.338e+05
319 25.83	181.82-380.00	20.19	-218.37	-254.33	5.579e+05-9.276e+05-3.917e+05 2.208e+04 7.133e+05
350 30.10	239.57-385.70	70.54	-216.67	-277.70	6.370e+05-1.102e+06-4.313e+05-3.419e+048.467e+05
351 30.04	277.20-335.81	-57.65	-0.96	-305.19	9.010e+05-8.482e+05 1.717e+05-1.189e+05 8.624e+05
284 1321 32.54	457.66-230.66	35.22	191.78	-335.14	1.258e+06-6.010e+05 5.329e+05 1.245e+05 9.070e+05
320 33.40	353.14-370.32	90.45	-107.64	-347.91	1.019e+06-9.125e+05-1.710e+05 2.775e+05 9.393e+05
351 38.95	415.57-373.70	133.70	-91.83	-378.18	1.212e+06-1.056e+06-1.756e+053.313e+05 1.106e+06
352 38.08	458.78-305.09	-30.04	183.73	-366.67	1.499e+06-6.826e+05 5.934e+05 2.231e+05 1.075e+06
284 2321 25.00	339.31-191.38	29.20	118.74	-261.54	9.512e+05-4.796e+05 3.801e+05 9.146e+04 7.007e+05
320 25.70	259.39-299.29	71.68	-111.58	-263.88	7.670e+05-7.192e+05-1.614e+05 2.092e+05 7.196e+05
351 29.96	308.06-302.53	107.17	-101.64	-286.89	9.087e+05-8.363e+05-1.687e+05 2.410e+05 8.481e+05
352 29.25	339.04-247.49	-18.78	110.33	-286.07	1.130e+06-5.494e+05 4.229e+05 1.579e+05 8.293e+05
285 1322 30.82	522.35-107.58	101.50	313.27	-296.64	1.430e+06-2.745e+05 7.913e+05 3.640e+05 8.249e+05
321 32.46	442.84-257.06	153.46	32.32	-344.67	1.245e+06-6.060e+05 1.316e+05 5.075e+05 9.063e+05
352 37.98	494.60-260.88	175.83	57.89	-373.11	1.509e+06-6.681e+05 1.687e+05 6.722e+05 1.059e+06
353 36.35	527.23-188.57	22.16	316.50	-326.24	1.728e+06-2.682e+05 8.894e+05 5.708e+05 9.855e+05
285 2322 23.63	387.32-94.94	80.18	212.20	-231.92	1.083e+06-2.280e+05 5.789e+05 2.757e+05 6.375e+05
321 24.92	326.77-210.54	120.15	-3.92	-261.39	9.405e+05-4.831e+05 7.136e+04 3.861e+05 6.942e+05
352 29.15	366.48-213.37	139.58	13.53	-282.99	1.137e+06-5.377e+05 9.617e+04 5.033e+05 8.123e+05
353 27.87	389.20-155.37	21.37	212.46	-254.97	1.307e+06-2.308e+05 6.505e+05 4.253e+05 7.604e+05
286 1323 28.50	566.9213.97	163.45	417.43	-245.59	1.538e+06 6.032e+04 1.011e+06 5.866e+05 7.074e+05
322 30.73	515.13-138.06	209.81	167.26	-325.90	1.415e+06-2.768e+05 4.242e+05 7.143e+05 8.335e+05
353 36.24	557.20-145.31	210.65	201.25	-351.22	1.737e+06-2.544e+05 5.009e+05 9.815e+05 9.662e+05
354 34.05	578.17-72.88	73.78	431.51	-271.98	1.879e+06 1.540e+05 1.142e+06 8.913e+05 8.535e+05
286 2323 21.78	419.55 0.61	127.84	292.32	-192.65	1.165e+06 3.000e+04 7.480e+05 4.470e+05 5.472e+05
322 23.54	380.68-117.31	163.50	99.88	-246.95	1.071e+06-2.294e+05 2.965e+05 5.452e+05 6.382e+05



353	27.76	412.09-121.92	166.36	123.80	-266.15	1.313e+06	-2.196e+05	3.517e+05	7.412e+05	7.409e+05	
354	26.04	425.65-63.64	61.08	300.93	-213.24	1.423e+06	9.383e+04	8.450e+05	6.719e+05	6.589e+05	
287	1323	28.39	567.05-18.71	291.21	257.14	292.39	1.522e+06	6.089e+04	8.892e+05	6.941e+05	-7.242e+05
354	33.93	601.31-32.75	331.87	236.69	313.44	1.886e+06	1.666e+05	1.246e+06	8.066e+05	-8.312e+05	
355	31.45	610.7835.46	523.61	122.64	206.29	1.946e+06	5.656e+05	1.171e+06	1.341e+06	-6.849e+05	
324	25.83	590.76127.31	499.59	218.48	184.24	1.577e+06	3.886e+05	7.828e+05	1.183e+06	-5.597e+05	
287	2323	21.69	418.75-23.62	195.22	199.90	221.17	1.153e+06	3.086e+04	6.797e+05	5.041e+05	-5.541e+05
354	25.92	443.18-32.50	224.28	186.40	237.09	1.427e+06	1.041e+05	9.446e+05	5.869e+05	-6.370e+05	
355	23.98	447.6322.81	371.77	98.66	162.70	1.474e+06	4.102e+05	8.869e+05	9.977e+05	-5.292e+05	
324	19.67	435.3190.37	355.51	170.17	145.46	1.195e+06	2.831e+05	5.979e+05	8.802e+05	-4.335e+05	
288	1324	25.73	597.2094.88	398.75	293.34	245.57	1.562e+06	3.920e+05	1.024e+06	9.300e+05	-5.833e+05
355	31.33	626.7470.08	444.06	252.76	261.38	1.950e+06	5.765e+05	1.454e+06	1.073e+06	-6.599e+05	
356	31.08	626.62128.68	588.78	166.52	131.95	1.926e+06	9.486e+05	1.397e+06	1.477e+06	-4.869e+05	
325	25.23	596.13224.19	556.15	264.18	115.21	1.549e+06	6.950e+05	9.440e+05	1.300e+06	-3.881e+05	
288	2324	19.58	439.7066.00	277.95	227.75	185.16	1.183e+06	2.862e+05	7.836e+05	6.855e+05	-4.457e+05
355	23.87	459.4949.85	310.59	198.76	197.04	1.477e+06	4.192e+05	1.105e+06	7.917e+05	-5.053e+05	
356	23.49	456.2898.04	421.90	132.42	105.52	1.459e+06	7.043e+05	1.061e+06	1.102e+06	-3.769e+05	
325	19.05	436.00168.34	399.02	205.32	92.36	1.172e+06	5.199e+05	7.219e+05	9.701e+05	-3.015e+05	
289	1325	24.87	606.46195.58	485.11	316.92	187.44	1.535e+06	7.011e+05	1.114e+06	1.122e+06	-4.168e+05
356	31.23	635.86155.16	532.82	258.19	197.26	1.928e+06	9.574e+05	1.597e+06	1.288e+06	-4.599e+05	
357	31.17	630.43197.15	624.02	203.56	52.28	1.821e+06	1.285e+06	1.561e+06	1.545e+06	-2.681e+05	
326	24.99	590.44292.71	584.52	298.63	41.56	1.458e+06	9.620e+05	1.063e+06	1.357e+06	-2.000e+05	
289	2325	18.78	443.96146.31	344.38	245.89	140.45	1.161e+06	5.251e+05	8.527e+05	8.330e+05	-3.176e+05
356	23.59	462.83118.97	378.86	202.94	147.72	1.460e+06	7.117e+05	1.214e+06	9.574e+05	-3.515e+05	
357	23.51	455.65154.27	449.02	160.91	44.23	1.380e+06	9.618e+05	1.187e+06	1.155e+06	-2.086e+05	
326	18.84	427.37225.30	420.85	231.82	35.71	1.100e+06	7.277e+05	8.136e+05	1.014e+06	-1.568e+05	
290	1326	24.78	599.69273.64	546.44	326.89	120.52	1.446e+06	9.698e+05	1.154e+06	1.261e+06	-2.319e+05
357	31.25	634.38212.51	594.17	252.73	123.89	1.820e+06	1.291e+06	1.668e+06	1.444e+06	-2.399e+05	
358	31.23	629.84229.99	627.70	232.13	-29.16	1.666e+06	1.531e+06	1.654e+06	1.543e+06	-3.790e+04	
327	24.84	587.55316.19	583.37	320.36	-33.39	1.352e+06	1.135e+06	1.135e+06	1.352e+06	-3592.78	
290	2326	18.68	435.15209.97	391.56	253.56	88.97	1.090e+06	7.343e+05	8.838e+05	9.402e+05	-1.754e+05
357	23.57	458.17166.62	426.05	198.73	91.28	1.379e+06	9.672e+05	1.269e+06	1.077e+06	-1.822e+05	
358	23.55	453.10181.64	451.85	182.89	-18.42	1.268e+06	1.144e+06	1.259e+06	1.153e+06	-3.149e+04	
327	18.71	422.73245.77	419.97	248.54	-21.95	1.010e+06	8.689e+05	8.692e+05	1.010e+06	-5734.64	
291	1327	24.82	588.48314.35	579.85	322.98	47.87	1.349e+06	1.137e+06	1.144e+06	1.343e+06	-3.682e+04
358	31.24	630.26231.62	625.22	236.66	44.56	1.665e+06	1.533e+06	1.664e+06	1.533e+06	-9301.85	
359	31.27	630.84219.75	599.59	251.00	-108.95	1.791e+06	1.353e+06	1.674e+06	1.470e+06	1.941e+05	
328	24.81	595.25285.93	552.68	328.50	-106.56	1.425e+06	1.018e+06	1.158e+06	1.285e+06	1.931e+05	
291	2327	18.70	423.58244.23	417.26	250.55	33.08	1.008e+06	8.709e+05	8.757e+05	1.003e+06	-2.536e+04
358	23.56	453.37182.95	449.94	186.37	30.25	1.267e+06	1.146e+06	1.266e+06	1.146e+06	-4820.19	
359	23.59	454.94172.68	430.22	197.41	-79.79	1.357e+06	1.014e+06	1.274e+06	1.097e+06	1.470e+05	
328	18.70	431.08220.08	396.36	254.80	-78.23	1.072e+06	7.724e+05	8.861e+05	9.586e+05	1.455e+05	
292	1328	24.98	586.72302.52	584.01	305.22	-27.59	1.436e+06	1.010e+06	1.083e+06	1.363e+06	1.605e+05
359	31.20	628.02207.25	624.67	210.61	-37.42	1.792e+06	1.347e+06	1.586e+06	1.553e+06	2.221e+05	
360	31.27	631.33169.00	541.10	259.24	-183.24	1.916e+06	1.032e+06	1.618e+06	1.330e+06	4.179e+05	
329	24.90	602.56213.91	494.00	322.48	-174.38	1.525e+06	7.619e+05	1.128e+06	1.159e+06	3.814e+05	



292 2328 18.83	423.79233.56	420.46	236.89	-24.96	1.082e+06	7.655e+05	8.286e+05	1.019e+06	1.264e+05
359 23.53	453.27162.58	449.52	166.33	-32.80	1.358e+06	1.009e+06	1.206e+06	1.161e+06	1.732e+05
360 23.62	458.76130.21	385.23	203.74	-136.93	1.452e+06	7.692e+05	1.231e+06	9.896e+05	3.191e+05
329 18.79	440.54160.85	351.22	250.17	-130.40	1.153e+06	5.722e+05	8.635e+05	8.618e+05	2.904e+05
293 1329 25.23	591.60241.56	558.70	274.45	-102.13	1.539e+06	7.552e+05	9.733e+05	1.321e+06	3.514e+05
360 31.14	623.64144.60	592.50	175.74	-118.09	1.915e+06	1.024e+06	1.437e+06	1.502e+06	4.445e+05
331 31.26	623.4987.92	454.92	256.49	-248.73	1.959e+06	6.593e+05	1.490e+06	1.128e+06	6.242e+05
330 25.28	596.21116.26	409.97	302.50	-233.88	1.568e+06	4.592e+05	1.049e+06	9.791e+05	5.535e+05
293 2329 19.05	431.96182.25	400.99	213.22	-82.30	1.164e+06	5.666e+05	7.444e+05	9.866e+05	2.733e+05
360 23.52	453.44110.85	424.78	139.51	-94.86	1.451e+06	7.620e+05	1.091e+06	1.122e+06	3.442e+05
331 23.66	456.5764.00	318.94	201.63	-187.31	1.484e+06	4.828e+05	1.132e+06	8.343e+05	4.778e+05
330 19.22	438.7582.62	286.58	234.80	-176.17	1.187e+06	3.382e+05	8.023e+05	7.233e+05	4.228e+05
294 1330 25.55	588.55148.52	505.16	231.91	-172.46	1.584e+06	4.550e+05	8.200e+05	1.219e+06	5.280e+05
331 31.09	609.2454.63	530.28	133.59	-193.80	1.955e+06	6.484e+05	1.222e+06	1.382e+06	6.485e+05
332 33.57	600.84-12.81	345.18	242.85	-302.53	1.914e+06	2.517e+05	1.294e+06	8.718e+05	8.040e+05
301 28.01	569.89 3.86	304.56	269.20	-282.46	1.544e+06	1.298e+05	9.220e+05	7.517e+05	7.019e+05
294 2330 19.34	433.37106.93	359.80	180.50	-136.40	1.200e+06	3.345e+05	6.265e+05	9.076e+05	4.091e+05
331 23.66	446.0537.94	376.91	107.09	-153.10	1.482e+06	4.739e+05	9.262e+05	1.029e+06	5.012e+05
332 25.64	442.55-16.89	234.52	191.13	-228.69	1.449e+06	1.696e+05	9.815e+05	6.371e+05	6.161e+05
301 21.38	420.89-6.21	205.49	209.18	-213.54	1.169e+06	8.402e+04	7.050e+05	5.484e+05	5.370e+05
295 1332 33.70	579.27-52.25	86.02	441.00	261.16	1.908e+06	2.389e+05	1.196e+06	9.510e+05	-8.256e+05
333 36.01	560.37-124.45	218.89	217.03	342.41	1.782e+06	-1.727e+05	5.706e+05	1.039e+06	-9.490e+05
302 30.47	522.01-115.50	223.86	182.64	318.09	1.450e+06	-2.109e+05	4.855e+05	7.540e+05	-8.198e+05
301 28.12	568.3836.86	179.29	425.96	235.41	1.559e+06	1.282e+05	1.058e+06	6.295e+05	-6.828e+05
295 2332 25.76	426.25-47.52	70.50	308.23	204.90	1.445e+06	1.592e+05	8.865e+05	7.178e+05	-6.374e+05
333 27.57	414.35-105.69	172.71	135.95	259.37	1.347e+06	-1.567e+05	4.053e+05	7.854e+05	-7.276e+05
302 23.33	385.98-99.96	174.31	111.72	240.94	1.098e+06	-1.786e+05	3.436e+05	5.757e+05	-6.276e+05
301 21.48	420.6118.28	140.02	298.88	184.82	1.182e+06	8.243e+04	7.842e+05	4.800e+05	-5.282e+05
296 1333 36.14	531.68-167.61	34.97	329.10	317.21	1.774e+06	-1.869e+05	9.520e+05	6.355e+05	-9.678e+05
334 37.91	501.89-240.05	185.60	76.24	366.92	1.568e+06	-5.948e+05	2.374e+05	7.355e+05	-1.052e+06
303 32.35	453.61-235.56	168.33	49.72	339.44	1.291e+06	-5.474e+05	1.919e+05	5.515e+05	-9.013e+05
302 30.58	527.91-84.38	118.56	324.96	288.23	1.466e+06	-2.096e+05	8.460e+05	4.100e+05	-8.087e+05
296 2333 27.69	392.45-139.07	31.23	222.15	248.02	1.342e+06	-1.682e+05	6.987e+05	4.751e+05	-7.468e+05
334 29.09	371.94-197.19	147.10	27.65	278.23	1.182e+06	-4.812e+05	1.490e+05	5.520e+05	-8.070e+05
303 24.83	335.04-193.99	131.59	9.47	257.37	9.756e+05	-4.378e+05	1.178e+05	4.199e+05	-6.903e+05
302 23.43	391.59-77.09	93.31	221.19	225.45	1.110e+06	-1.780e+05	6.209e+05	3.111e+05	-6.251e+05
297 1334 38.02	466.95-284.66	-17.33	199.62	359.81	1.558e+06	-6.097e+05	6.591e+05	2.894e+05	-1.068e+06
335 39.05	427.07-353.82	144.51	-71.26	375.25	1.279e+06	-9.948e+05	-1.126e+05	3.971e+05	-1.108e+06
304 33.47	367.41-350.78	105.21	-88.58	345.78	1.072e+06	-8.638e+05	-1.156e+05	3.233e+05	-9.424e+05
303 32.45	467.26-208.28	52.29	206.70	328.83	1.305e+06	-5.432e+05	5.905e+05	1.711e+05	-8.999e+05
297 2334 29.20	345.17-231.62	-9.01	122.56	280.79	1.176e+06	-4.933e+05	4.734e+05	2.089e+05	-8.239e+05
335 30.02	316.74-287.06	115.49	-85.81	284.63	9.604e+05	-7.889e+05	-1.202e+05	2.917e+05	-8.501e+05
304 25.74	270.31-284.19	83.04	-96.92	262.24	8.073e+05	-6.816e+05	-1.188e+05	2.444e+05	-7.220e+05
303 24.93	346.69-174.15	42.33	130.22	256.68	9.867e+05	-4.350e+05	4.244e+05	1.273e+05	-6.952e+05
298 1335 39.14	387.28-397.76	-68.57	58.10	387.38	1.269e+06	-1.010e+06	3.307e+05	-7.184e+04	-1.121e+06
336 39.32	338.84-460.80	97.52	-219.49	367.06	9.301e+05	-1.354e+06	-4.627e+05	3.865e+04	-1.114e+06



305	33.73	267.29-456.33	37.53	-226.57	336.85	8.026e+05-1.145e+06-4.226e+057.970e+04-9.411e+05
304	33.55	388.50-328.84	-16.55	76.21	355.66	1.084e+06-8.569e+05 3.034e+05-7.655e+04-9.515e+05
298	2335	30.12	286.23-320.95	-48.42	13.69	302.00 9.528e+05-8.011e+05 2.208e+05-6.902e+04-8.649e+05
336	30.29	251.13-371.62	79.34	-199.83	278.33	6.917e+05-1.065e+06-3.895e+051.598e+04-8.548e+05
305	25.99	194.86-366.96	30.97	-203.07	255.38	6.009e+05-8.987e+05-3.549e+055.703e+04-7.210e+05
304	25.82	287.67-268.45	-10.63	29.85	277.32	8.171e+05-6.767e+05 2.035e+05-6.316e+04-7.349e+05
299	1336	39.38	295.95-502.11	-116.66	-89.51	398.80 9.189e+05-1.369e+06-1.712e+04-4.326e+05-1.125e+06
337	38.73	241.19-556.83	46.54	-362.18	342.70	5.362e+05-1.656e+06-7.958e+05-3.244e+05-1.071e+06
306	33.12	158.03-548.08	-31.68	-358.37	313.00	4.966e+05-1.380e+06-7.142e+05-1.689e+05-8.977e+05
305	33.78	294.93-440.76	-84.88	-60.94	367.65	8.126e+05-1.136e+06 -1475.42-3.222e+05-9.611e+05
299	2336	30.36	218.25-403.50	-85.41	-99.85	310.79 6.837e+05-1.077e+06-4.674e+04-3.466e+05-8.675e+05
337	29.89	178.27-447.74	40.13	-309.60	259.60	3.887e+05-1.298e+06-6.458e+05-2.633e+05-8.213e+05
306	25.58	112.49-439.20	-22.27	-304.45	237.03	3.659e+05-1.079e+06-5.792e+05-1.342e+05-6.875e+05
305	26.06	217.19-356.04	-63.19	-75.66	286.55	6.089e+05-8.920e+05-3.096e+04-2.521e+05-7.423e+05
300	1337	38.76	197.32-593.81	-159.16	-237.33	393.63 5.251e+05-1.670e+06-3.683e+05-7.765e+05-1.078e+06
338	37.36	139.10-638.52	-5.95	-493.47	302.90	1.158e+05-1.888e+06-1.097e+06-6.752e+05-9.796e+05
307	31.73	45.31-622.94	-99.10	-478.54	275.04	1.679e+05-1.556e+06-9.774e+05-4.109e+05-8.142e+05
306	33.15	190.84-539.40	-149.30	-199.26	364.27	5.040e+05-1.369e+06-3.100e+05-5.545e+05-9.283e+05
300	2337	29.94	144.67-476.33	-118.11	-213.55	306.81 3.807e+05-1.309e+06-3.169e+05-6.111e+05-8.318e+05
338	28.89	102.04-512.88	-0.25	-410.59	228.99	6.526e+04-1.476e+06-8.777e+05-5.331e+05-7.512e+05
307	24.56	27.62-498.64	-74.12	-396.89	207.83	1.136e+05-1.216e+06-7.816e+05-3.204e+05-6.234e+05
306	25.62	138.66-433.45	-112.74	-182.06	283.95	3.721e+05-1.071e+06-2.683e+05-4.308e+05-7.170e+05
301	1369	41.64	87.69-736.29	-238.29	-410.31	402.91 2.158e+04-2.360e+06-8.750e+05-1.463e+06-1.154e+06
370	40.13	19.55-775.00	-95.02	-660.44	279.11	-5.050e+05-2.562e+06-1.658e+06-1.409e+06-1.021e+06
339	33.72	-95.00-750.72	-214.16	-631.56	252.86	-3.389e+05-2.118e+06-1.486e+06-9.716e+05-8.517e+05
338	35.45	70.49-685.51	-255.09	-359.94	374.35	1.030e+05-1.940e+06-7.624e+05-1.074e+06-1.009e+06
301	2369	32.24	60.51-590.00	-180.16	-349.32	314.06-1.594e+04-1.847e+06-7.142e+05-1.149e+06-8.896e+05
370	31.13	10.36-622.05	-69.95	-541.73	210.57	-4.219e+05-2.003e+06-1.317e+06-1.108e+06-7.834e+05
339	26.17	-80.71-600.41	-164.07	-517.06	190.71	-2.844e+05-1.655e+06-1.180e+06-7.598e+05-6.524e+05
338	27.45	45.30-548.97	-195.55	-308.12	291.76	5.549e+04-1.518e+06-6.234e+05-8.389e+05-7.793e+05
302	1368	42.74	205.28-653.45	-191.81	-256.36	428.15 5.559e+05-2.048e+06-4.595e+05-1.033e+06-1.270e+06
369	41.67	137.02-704.72	-30.99	-536.71	336.45	3.350e+04-2.348e+06-1.342e+06-9.722e+05-1.176e+06
338	35.54	33.19-689.94	-137.08	-519.67	306.82	9.848e+04-1.959e+06-1.207e+06-6.528e+05-9.905e+05
337	36.77	197.94-595.57	-182.59	-215.04	396.42	5.381e+05-1.699e+06-3.926e+05-7.685e+05-1.103e+06
302	2368	33.02	148.61-523.93	-144.41	-230.91	333.48 3.953e+05-1.608e+06-3.945e+05-8.183e+05-9.791e+05
369	32.24	98.33-565.59	-20.70	-446.55	254.68	-7374.76-1.838e+06-1.073e+06-7.717e+05-9.026e+05
338	27.51	15.89-551.65	-104.78	-430.98	232.21	5.176e+04-1.532e+06-9.657e+05-5.146e+05-7.591e+05
337	28.41	141.83-478.27	-139.79	-196.65	308.74	3.900e+05-1.333e+06-3.390e+05-6.036e+05-8.510e+05
303	1367	43.21	319.52-552.18	-136.80	-95.86	435.36 1.063e+06-1.651e+06-2.738e+04-5.608e+05-1.330e+06
368	42.74	255.18-614.86	34.51	-394.19	378.54	5.683e+05-2.034e+06-9.703e+05-4.958e+05-1.280e+06
337	36.81	163.66-606.92	-53.91	-389.35	346.87	5.293e+05-1.716e+06-8.792e+05-3.073e+05-1.086e+06
336	37.36	318.67-485.74	-102.07	-65.00	401.78	9.468e+05-1.387e+06 -8892.89-4.309e+05-1.147e+06
303	2367	33.31	234.27-443.80	-102.10	-107.44	339.02 7.855e+05-1.303e+06-6.216e+04-4.552e+05-1.026e+06
368	32.99	186.98-494.22	29.68	-336.93	287.06	4.043e+05-1.597e+06-7.875e+05-4.052e+05-9.822e+05
337	28.43	114.57-486.10	-40.80	-330.74	263.03	3.830e+05-1.345e+06-7.133e+05-2.488e+05-8.323e+05
336	28.80	233.32-392.41	-77.84	-81.24	312.86	7.042e+05-1.092e+06-4.383e+04-3.439e+05-8.854e+05



304	1366	42.94	424.53-435.75	-75.55	64.33	424.42	1.519e+06-1.185e+06	4.010e+05-6.742e+04-1.332e+06				
	367	43.16	367.37-507.89	98.78	-239.31	403.66	1.075e+06-1.636e+06-5.599e+05	-900.20-1.326e+06				
	336	37.34	289.19-503.84	31.80	-246.45	371.31	9.341e+05-1.400e+06-5.162e+05	4.989e+04-1.132e+06				
	335	37.13	426.93-360.32	-17.10	83.70	390.38	1.310e+06-1.016e+06	3.705e+05-7.620e+04-1.141e+06				
304	2366	33.03	312.89-352.09	-54.98	15.78	330.60	1.137e+06-9.449e+05	2.674e+05-7.569e+04-1.026e+06				
	367	33.25	271.12-409.78	79.13	-217.79	306.38	7.943e+05-1.291e+06-4.718e+05	-2.452e+04-1.018e+06				
	336	28.77	209.64-405.32	25.13	-220.81	281.82	6.941e+05-1.102e+06-4.341e+05	2.594e+04-8.683e+05				
	335	28.57	315.28-294.61	-12.48	33.15	304.09	9.836e+05-8.067e+05	2.480e+05-7.105e+04-8.808e+05				
305	1365	41.93	515.53-308.57	-10.94	217.89	395.85	1.903e+06-6.724e+05	8.060e+05	4.247e+05-1.274e+06			
	366	42.84	468.03-387.58	158.88	-78.44	411.02	1.530e+06-1.169e+06-1.287e+05	4.897e+05-1.314e+06				
	335	37.05	403.72-384.45	116.12	-96.85	379.42	1.294e+06-1.026e+06-1.341e+05	4.022e+05-1.129e+06				
	334	36.08	517.79-224.36	68.27	225.16	362.69	1.612e+06-6.039e+05	7.284e+05	2.792e+05-1.085e+06			
305	2365	32.18	380.69-252.06	-5.27	133.90	308.62	1.432e+06-5.505e+05	5.789e+05	3.029e+05-9.817e+05			
	366	32.93	346.42-315.10	125.36	-94.04	312.04	1.145e+06-9.319e+05-1.401e+05	3.529e+05-1.009e+06				
	335	28.49	296.36-312.11	89.99	-105.74	288.06	9.710e+05-8.142e+05-1.402e+05	2.969e+05-8.654e+05				
	334	27.70	383.82-188.68	53.18	141.96	282.79	1.215e+06-4.896e+05	5.233e+05	2.024e+05-8.372e+05			
306	1364	40.28	588.66-175.89	54.36	358.41	350.75	2.198e+06-1.362e+05	1.167e+06	8.945e+05-1.159e+06			
	365	41.79	552.71-258.66	212.36	81.69	400.39	1.913e+06-6.561e+05	3.020e+05	9.547e+05-1.242e+06			
	334	35.94	501.79-253.40	195.25	53.14	370.85	1.593e+06-6.100e+05	2.483e+05	7.343e+05-1.074e+06			
	333	34.30	587.34-83.78	150.15	353.40	319.80	1.837e+06-1.697e+05	1.047e+06	6.201e+05-9.803e+05			
306	2364	30.84	434.58-147.63	44.95	242.00	273.93	1.659e+06-1.383e+05	8.569e+05	6.642e+05-8.937e+05			
	365	32.06	409.34-213.72	166.49	29.14	303.87	1.439e+06-5.374e+05	1.912e+05	7.106e+05-9.535e+05			
	334	27.58	370.44-209.94	150.86	9.64	281.47	1.200e+06-4.940e+05	1.540e+05	5.524e+05-8.235e+05			
	333	26.27	435.82-79.04	116.17	240.61	249.80	1.388e+06-1.555e+05	7.684e+05	4.646e+05-7.569e+05			
307	1363	38.20	641.30-43.88	117.47	479.94	290.73	2.392e+06	3.975e+05	1.469e+06	1.321e+06-9.945e+05		
	364	40.12	618.08-126.63	256.78	234.66	372.19	2.206e+06-1.205e+05	7.116e+05	1.374e+06-1.115e+06			
	333	34.11	579.04-116.21	265.43	197.40	345.96	1.816e+06-1.715e+05	6.128e+05	1.032e+06-9.714e+05			
	332	31.99	632.9254.97	224.91	462.98	263.32	1.977e+06	2.665e+05	1.312e+06	9.312e+05-8.336e+05		
307	2363	29.17	472.40-43.41	93.50	335.48	227.76	1.809e+06	2.718e+05	1.089e+06	9.922e+05-7.670e+05		
	364	30.70	457.19-109.72	200.66	146.81	282.17	1.665e+06-1.257e+05	5.063e+05	1.033e+06-8.556e+05			
	333	26.11	428.41-102.95	204.85	120.61	262.32	1.372e+06-1.566e+05	4.344e+05	7.811e+05-7.444e+05			
	332	24.43	469.0529.52	173.68	324.89	206.35	1.496e+06	1.802e+05	9.722e+05	7.039e+05-6.440e+05		
308	1331	30.19	653.76184.59	548.95	289.40	-195.42	2.026e+06	6.854e+05	1.199e+06	1.513e+06	6.517e+05	
	362	36.56	672.6179.98	576.95	175.65	-218.04	2.479e+06	9.036e+05	1.685e+06	1.698e+06	7.878e+05	
	363	38.03	662.12	2.11	374.10	290.12	-327.32	2.397e+06	4.118e+05	1.728e+06	1.081e+06	9.386e+05
	332	31.77	632.2221.03	329.86	323.40	-305.58	1.955e+06	2.690e+05	1.281e+06	9.427e+05	8.257e+05	
308	2331	22.83	482.62131.69	391.03	223.28	-154.12	1.534e+06	5.025e+05	9.097e+05	1.127e+06	5.041e+05	
	362	27.63	493.2955.07	410.10	138.25	-171.85	1.877e+06	6.605e+05	1.272e+06	1.265e+06	6.081e+05	
	363	29.02	488.24-7.86	254.07	226.31	-247.66	1.813e+06	2.834e+05	1.305e+06	7.905e+05	7.199e+05	
	332	24.25	467.62	4.31	222.50	249.44	-231.26	1.479e+06	1.824e+05	9.730e+05	6.882e+05	6.324e+05
309	1360	30.28	652.57295.62	607.05	341.14	-119.07	1.984e+06	1.069e+06	1.411e+06	1.642e+06	4.428e+05	
	361	37.19	684.81186.20	644.54	226.46	-135.86	2.461e+06	1.357e+06	1.971e+06	1.847e+06	5.484e+05	
	362	36.74	684.87119.81	493.68	311.00	-267.36	2.482e+06	9.159e+05	2.003e+06	1.395e+06	7.217e+05	
	331	29.70	659.81151.48	444.52	366.77	-251.18	2.004e+06	6.920e+05	1.472e+06	1.224e+06	6.442e+05	
309	2360	22.85	478.05220.76	435.72	263.09	-95.39	1.501e+06	7.978e+05	1.073e+06	1.226e+06	3.434e+05	
	361	28.06	498.80140.63	462.09	177.34	-108.63	1.864e+06	1.008e+06	1.493e+06	1.380e+06	4.240e+05	



362	27.76	502.3186.11	346.05	242.37	-201.54	1.878e+06	6.706e+05	1.517e+06	1.032e+06	5.531e+05	
331	22.44	486.68106.82	310.70	282.80	-189.41	1.517e+06	5.079e+05	1.120e+06	9.046e+05	4.928e+05	
310	1359	30.30	639.87372.62	634.44	378.05	-37.69	1.854e+06	1.402e+06	1.560e+06	1.695e+06	2.157e+05
390	37.63	684.87262.13	679.37	267.63	-47.89	2.353e+06	1.726e+06	2.168e+06	1.911e+06	2.864e+05	
361	37.33	689.87216.30	587.71	318.46	-194.79	2.462e+06	1.367e+06	2.187e+06	1.642e+06	4.745e+05	
360	29.91	663.12266.73	536.02	393.82	-185.00	1.963e+06	1.080e+06	1.597e+06	1.446e+06	4.354e+05	
310	2359	22.83	463.06285.21	456.79	291.47	-32.79	1.401e+06	1.054e+06	1.188e+06	1.267e+06	1.687e+05
390	28.36	494.76203.13	488.89	209.01	-40.97	1.783e+06	1.289e+06	1.644e+06	1.429e+06	2.224e+05	
361	28.16	502.00164.48	418.38	248.10	-145.71	1.864e+06	1.017e+06	1.659e+06	1.222e+06	3.629e+05	
360	22.56	486.17198.52	381.08	303.61	-138.51	1.485e+06	8.062e+05	1.216e+06	1.075e+06	3.321e+05	
311	1358	30.22	638.24390.11	629.78	398.56	45.02	1.681e+06	1.629e+06	1.638e+06	1.672e+06	-2.021e+04
389	37.79	684.29292.75	679.77	297.28	41.83	2.266e+06	1.888e+06	2.266e+06	1.889e+06	1.235e+04	
390	37.70	685.72278.08	651.63	312.17	-112.84	2.352e+06	1.732e+06	2.272e+06	1.812e+06	2.075e+05	
359	30.11	649.25354.38	600.01	403.62	-109.99	1.835e+06	1.416e+06	1.649e+06	1.601e+06	2.081e+05	
311	2358	22.76	459.45301.01	453.21	307.26	30.83	1.261e+06	1.236e+06	1.248e+06	1.249e+06	-1.275e+04
389	28.48	492.21228.79	489.19	231.81	28.05	1.720e+06	1.411e+06	1.719e+06	1.412e+06	1.158e+04	
390	28.42	494.73216.09	467.55	243.27	-82.68	1.782e+06	1.295e+06	1.724e+06	1.353e+06	1.575e+05	
359	22.68	471.12270.33	430.30	311.15	-80.80	1.386e+06	1.065e+06	1.256e+06	1.194e+06	1.573e+05	
312	1357	30.04	655.07339.97	593.30	401.74	125.09	1.865e+06	1.350e+06	1.643e+06	1.572e+06	-2.547e+05
388	37.63	690.04269.78	645.77	314.06	129.03	2.377e+06	1.665e+06	2.262e+06	1.780e+06	-2.618e+05	
389	37.78	684.09290.75	682.47	292.37	-25.20	2.267e+06	1.887e+06	2.254e+06	1.900e+06	-6.808e+04	
358	30.24	637.14392.19	633.55	395.78	-29.44	1.694e+06	1.616e+06	1.628e+06	1.682e+06	-2.795e+04	
312	2357	22.64	476.39258.45	425.14	309.70	92.42	1.409e+06	1.015e+06	1.252e+06	1.172e+06	-1.931e+05
388	28.37	498.67209.09	463.03	244.72	95.12	1.800e+06	1.244e+06	1.716e+06	1.328e+06	-1.993e+05	
389	28.47	492.15227.16	491.27	228.04	-15.26	1.720e+06	1.410e+06	1.710e+06	1.420e+06	-5.445e+04	
358	22.78	458.42302.80	456.10	305.12	-18.85	1.274e+06	1.223e+06	1.240e+06	1.257e+06	-2.429e+04	
313	1356	29.81	667.98246.06	526.54	387.50	199.17	1.974e+06	1.002e+06	1.575e+06	1.400e+06	-4.780e+05
387	37.19	695.48200.68	578.85	317.31	210.01	2.469e+06	1.277e+06	2.156e+06	1.590e+06	-5.247e+05	
388	37.55	688.28250.44	678.73	259.99	63.95	2.378e+06	1.658e+06	2.135e+06	1.901e+06	-3.405e+05	
357	30.27	645.14360.68	635.01	370.82	52.74	1.884e+06	1.337e+06	1.534e+06	1.687e+06	-2.627e+05	
313	2356	22.49	490.32182.22	373.79	298.75	149.41	1.493e+06	7.461e+05	1.199e+06	1.040e+06	-3.649e+05
387	28.06	506.96151.82	411.56	247.23	157.42	1.869e+06	9.476e+05	1.635e+06	1.182e+06	-4.015e+05	
388	28.30	498.03193.49	488.39	203.13	53.32	1.802e+06	1.238e+06	1.619e+06	1.421e+06	-2.640e+05	
357	22.82	468.03275.11	457.22	285.92	44.37	1.424e+06	1.004e+06	1.168e+06	1.261e+06	-2.049e+05	
314	1355	29.63	661.15127.79	432.60	356.34	263.94	1.994e+06	6.059e+05	1.437e+06	1.163e+06	-6.804e+05
386	36.54	688.99100.02	482.15	306.86	281.14	2.467e+06	8.137e+05	1.954e+06	1.327e+06	-7.647e+05	
387	37.04	688.79168.30	640.64	216.45	150.81	2.468e+06	1.267e+06	1.920e+06	1.816e+06	-5.984e+05	
356	30.21	658.32275.84	604.38	329.77	133.11	1.995e+06	9.921e+05	1.372e+06	1.615e+06	-4.863e+05	
314	2355	22.56	487.8388.47	301.53	274.78	199.23	1.509e+06	4.415e+05	1.093e+06	8.577e+05	-5.206e+05
386	27.63	505.9070.46	337.17	239.19	212.14	1.866e+06	5.921e+05	1.479e+06	9.795e+05	-5.862e+05	
387	27.95	502.45126.28	459.09	169.64	120.13	1.869e+06	9.392e+05	1.453e+06	1.355e+06	-4.624e+05	
356	22.80	482.99205.02	433.67	254.34	106.19	1.509e+06	7.385e+05	1.043e+06	1.205e+06	-3.769e+05	
315	1354	32.11	629.22-3.95	315.69	309.58	316.57	1.925e+06	1.803e+05	1.234e+06	8.711e+05	-8.531e+05
385	38.30	663.11-19.90	360.01	283.20	339.34	2.358e+06	3.051e+05	1.663e+06	1.000e+06	-9.715e+05	
386	36.35	674.8358.83	570.00	163.66	231.48	2.463e+06	8.013e+05	1.618e+06	1.647e+06	-8.307e+05	
355	30.07	656.44161.07	543.13	274.38	208.06	2.015e+06	6.004e+05	1.148e+06	1.468e+06	-6.892e+05	





315	2354	24.53	465.30-14.90	211.60	238.80	239.72	1.456e+06	1.140e+05	9.366e+05	6.331e+05	-6.534e+05
385	29.24		489.24-25.04	243.22	220.98	256.90	1.782e+06	2.014e+05	1.255e+06	7.284e+05	-7.452e+05
386	27.65		495.3638.42	404.75	129.03	182.19	1.864e+06	5.819e+05	1.220e+06	1.226e+06	-6.411e+05
355	22.75		484.85113.44	386.55	211.73	163.85	1.526e+06	4.370e+05	8.706e+05	1.092e+06	-5.330e+05
316	1354	32.31	631.3529.71	206.99	454.07	-274.28	1.946e+06	1.790e+05	1.253e+06	8.719e+05	8.626e+05
353	34.33		571.55-141.35	249.17	181.02	-354.82	1.768e+06	-2.569e+05	5.364e+05	9.750e+05	9.885e+05
384	40.28		614.99-149.76	247.32	217.91	-382.09	2.145e+06	-2.240e+05	6.253e+05	1.296e+06	1.136e+06
385	38.46		640.49-66.53	103.89	470.07	-302.40	2.352e+06	2.910e+05	1.401e+06	1.241e+06	1.027e+06
316	2354	24.70	467.8510.09	159.89	318.04	-214.79	1.472e+06	1.128e+05	9.268e+05	6.582e+05	6.663e+05
353	26.30		422.60-122.25	192.34	108.00	-269.14	1.335e+06	-2.224e+05	3.756e+05	7.375e+05	7.576e+05
384	30.84		454.96-127.66	193.39	133.91	-289.79	1.618e+06	-2.053e+05	4.399e+05	9.728e+05	8.718e+05
385	29.38		471.99-61.05	83.06	327.88	-236.75	1.778e+06	1.899e+05	1.037e+06	9.311e+05	7.922e+05
317	1353	34.51	581.19-109.53	130.56	341.10	-328.92	1.788e+06	-2.539e+05	9.786e+05	5.559e+05	9.990e+05
352	36.01		489.94-277.65	177.82	34.46	-377.04	1.532e+06	-6.867e+05	1.731e+05	6.718e+05	1.081e+06
383	41.81		544.92-281.99	200.91	62.02	-407.58	1.836e+06	-7.498e+05	2.172e+05	8.688e+05	1.251e+06
384	40.43		584.08-199.02	39.86	345.20	-360.56	2.137e+06	-2.392e+05	1.089e+06	8.078e+05	1.179e+06
317	2353	26.44	431.04-98.80	101.10	231.14	-256.82	1.351e+06	-2.203e+05	7.157e+05	4.152e+05	7.713e+05
352	27.65		361.29-228.57	137.46	-4.74	-286.23	1.154e+06	-5.531e+05	9.616e+04	5.043e+05	8.286e+05
383	32.08		403.47-231.79	157.69	14.00	-309.40	1.380e+06	-6.095e+05	1.260e+05	6.445e+05	9.603e+05
384	30.97		431.20-165.57	33.80	231.83	-281.48	1.612e+06	-2.176e+05	7.969e+05	5.975e+05	9.094e+05
318	1352	36.14	507.07-249.45	48.38	209.24	-369.61	1.550e+06	-6.796e+05	6.565e+05	2.137e+05	1.092e+06
351	36.96		387.80-406.74	98.59	-117.53	-382.29	1.225e+06	-1.091e+06	-2.030e+05	3.373e+05	1.126e+06
382	42.71		455.26-410.06	145.98	-100.78	-414.69	1.443e+06	-1.249e+06	-2.062e+05	4.006e+05	1.311e+06
383	41.93		506.66-331.34	-25.64	200.97	-403.39	1.826e+06	-7.655e+05	7.246e+05	3.355e+05	1.281e+06
318	2352	27.76	375.55-207.95	37.89	129.71	-288.11	1.168e+06	-5.479e+05	4.680e+05	1.519e+05	8.431e+05
351	28.44		284.14-329.29	76.51	-121.65	-290.27	9.177e+05	-8.639e+05	-1.931e+05	2.470e+05	8.632e+05
382	32.85		336.74-332.54	115.43	-111.23	-314.87	1.078e+06	-9.932e+05	-1.998e+05	2.843e+05	1.007e+06
383	32.20		374.00-269.71	-16.59	120.88	-314.43	1.373e+06	-6.222e+05	5.162e+05	2.342e+05	9.874e+05
319	1351	37.03	411.89-383.59	-36.15	64.44	-394.55	1.240e+06	-1.080e+06	3.009e+05	-1.404e+05	1.139e+06
350	37.11		269.80-523.18	14.77	-268.14	-370.40	8.611e+05	-1.451e+06	-5.752e+05	-1.452e+04	1.121e+06
381	42.91		349.95-528.40	84.73	-263.18	-403.26	9.842e+05	-1.699e+06	-6.261e+05	-8.918e+04	1.315e+06
382	42.79		411.13-457.22	-89.96	43.86	-428.99	1.432e+06	-1.265e+06	3.227e+05	-1.554e+05	1.327e+06
319	2351	28.50	303.73-312.54	-27.14	18.32	-307.30	9.298e+05	-8.557e+05	1.945e+05	-1.204e+05	8.787e+05
350	28.61		194.83-420.31	12.03	-237.51	-281.12	6.380e+05	-1.141e+06	-4.795e+05	-2.363e+04	8.599e+05
381	33.06		257.92-425.76	68.32	-236.16	-306.07	7.243e+05	-1.339e+06	-5.227e+05	-9.246e+04	1.009e+06
382	32.93		302.73-368.77	-66.06	0.03	-334.12	1.069e+06	-1.006e+06	2.071e+05	-1.434e+05	1.023e+06
320	1350	37.12	299.86-506.15	-119.16	-87.13	-402.69	8.731e+05	-1.437e+06	-7.317e+04	-4.903e+05	1.136e+06
349	36.46		141.67-622.41	-69.79	-410.95	-341.85	4.563e+05	-1.752e+06	-9.278e+05	-3.677e+05	1.068e+06
380	42.39		234.11-632.27	20.12	-418.29	-373.64	4.782e+05	-2.082e+06	-1.025e+06	-5.786e+05	1.260e+06
381	42.94		301.92-571.34	-150.00	-119.41	-436.36	9.721e+05	-1.714e+06	-9.917e+04	-6.431e+05	1.315e+06
320	2350	28.62	218.95-408.21	-90.99	-98.27	-313.56	6.475e+05	-1.130e+06	-9.330e+04	-3.896e+05	8.765e+05
349	28.16		97.84-498.22	-53.02	-347.36	-259.16	3.268e+05	-1.373e+06	-7.507e+05	-2.953e+05	1.187e+05
380	32.74		171.04-507.89	18.62	-355.47	-283.29	3.348e+05	-1.633e+06	-8.294e+05	-4.689e+05	9.674e+05
381	33.12		220.95-458.76	-112.25	-125.56	-339.79	7.156e+05	-1.352e+06	-1.174e+05	-5.186e+05	1.014e+06
321	1349	36.41	176.28-612.14	-197.18	-238.68	-393.66	4.644e+05	-1.735e+06	-4.492e+05	-8.213e+05	1.084e+06
348	35.11		9.97-701.10	-151.55	-539.58	-297.92	2.800e+04	-1.980e+06	-1.245e+06	-7.073e+05	9.675e+05



379	41.26	113.86-718.27	-45.25	-559.17	-327.23-5.257e+04-2.379e+06-1.384e+06-1.047e+06	1.151e+06	
380	42.39	184.45-669.34	-203.36	-281.53	-425.11 4.660e+05-2.095e+06-5.224e+05-1.107e+06	1.247e+06	
321	2349	28.14	125.35-491.20	-151.01	-214.84	-306.62 3.333e+05-1.360e+06-3.826e+05-6.442e+05	0.365e+05
348	27.18	-1.67-560.54	-115.90	-446.31	-225.37	-2500.38-1.549e+06-9.948e+05-5.565e+05	0.414e+05
379	31.94	80.87-576.38	-31.66	-463.84	-247.59-7.370e+04-1.861e+06-1.106e+06-8.290e+05	0.831e+05	
380	32.76	132.88-536.44	-153.29	-250.27	-331.13 3.261e+05-1.644e+06-4.430e+05-8.752e+05	0.612e+05	
322	1371	39.62	-89.61-825.05	-759.98	-154.69	-208.87-1.023e+06-2.670e+06-1.787e+06-1.906e+06	0.682.15e+05
340	32.76	-212.70-789.24	-720.18	-281.76	-187.21-7.633e+05-2.188e+06-1.249e+06-1.703e+06	0.666.75e+05	
339	33.59	-57.00-752.76	-493.49	-316.27	-336.41-3.388e+05-2.098e+06-1.335e+06-1.102e+06	0.687.20e+05	
370	40.07	-26.34-798.86	-551.06	-274.13	-360.59-5.159e+05-2.572e+06-1.832e+06-1.256e+06	0.698.69e+05	
322	2371	30.98	-71.07-663.08	-618.30	-115.85	-156.54-8.208e+05-2.085e+06-1.399e+06-1.507e+06	0.666.29e+05
340	25.61	-168.85-632.44	-585.22	-216.07	-140.21-6.105e+05-1.710e+06-9.734e+05-1.347e+06	0.656.16e+05	
339	26.08	-51.01-602.45	-410.85	-242.61	-262.57-2.840e+05-1.640e+06-1.039e+06-8.848e+05	0.673.6e+05	
370	31.11	-24.69-640.65	-457.60	-207.73	-281.50-4.296e+05-2.011e+06-1.433e+06-1.007e+06	0.676.12e+05	
323	1372	40.62	-181.87-856.35	-830.76	-207.46	-128.86-1.496e+06-2.668e+06-2.090e+06-2.074e+06	0.658.60e+05
341	33.19	-310.06-808.44	-781.45	-337.05	-112.79-1.156e+06-2.167e+06-1.474e+06-1.849e+06	0.646.99e+05	
340	32.28	-176.94-796.35	-609.74	-363.56	-284.19-7.675e+05-2.168e+06-1.539e+06-1.397e+06	0.666.96e+05	
371	39.85	-128.95-841.25	-672.35	-297.85	-302.95-1.032e+06-2.677e+06-2.124e+06-1.585e+06	0.677.72e+05	
323	2372	31.81	-139.52-689.67	-672.75	-156.44	-95.00-1.186e+06-2.083e+06-1.632e+06-1.637e+06	0.644.87e+05
341	25.99	-241.01-649.95	-632.36	-258.60	-82.96-9.114e+05-1.694e+06-1.146e+06-1.459e+06	0.635.87e+05	
340	25.25	-141.22-638.04	-500.27	-278.99	-222.41-6.134e+05-1.694e+06-1.196e+06-1.112e+06	0.655.38e+05	
371	31.17	-100.96-675.91	-550.90	-225.98	-237.17-8.273e+05-2.091e+06-1.658e+06-1.261e+06	0.655.99e+05	
324	1373	41.32	-248.06-872.52	-869.60	-250.97	-42.58-1.898e+06-2.565e+06-2.305e+06-2.157e+06	0.632.52e+05
342	33.42	-375.18-815.12	-812.65	-377.64	-32.85-1.496e+06-2.059e+06-1.636e+06-1.919e+06	0.624.37e+05	
341	32.81	-280.53-817.91	-703.55	-394.89	-219.95-1.164e+06-2.148e+06-1.677e+06-1.635e+06	0.649.17e+05	
372	40.81	-211.38-865.76	-768.80	-308.34	-232.48-1.503e+06-2.673e+06-2.326e+06-1.850e+06	0.653.39e+05	
324	2373	32.37	-188.32-704.22	-702.63	-189.92	-28.62-1.496e+06-2.001e+06-1.797e+06-1.700e+06	0.624.80e+05
342	26.19	-288.57-657.61	-656.36	-289.82	-21.47-1.171e+06-1.613e+06-1.271e+06-1.513e+06	0.618.47e+05	
341	25.70	-218.53-656.99	-572.43	-303.09	-172.99-9.174e+05-1.679e+06-1.302e+06-1.294e+06	0.638.10e+05	
372	31.95	-161.79-697.34	-625.09	-234.04	-182.96-1.190e+06-2.087e+06-1.813e+06-1.464e+06	0.641.28e+05	
325	1374	41.62	-279.72-878.32	-874.74	-283.29	46.13-2.141e+06-2.431e+06-2.422e+06-2.150e+06	0.650.30e+04
343	33.44	-396.00-818.14	-812.36	-401.77	49.04-1.728e+06-1.909e+06-1.728e+06-1.909e+06	6933.07	
342	33.21	-357.08-822.58	-770.73	-408.92	-146.44-1.507e+06-2.042e+06-1.743e+06-1.805e+06	0.626.56e+05	
373	41.42	-264.58-876.64	-836.10	-305.12	-152.21-1.902e+06-2.566e+06-2.430e+06-2.038e+06	0.626.80e+05	
325	2374	32.61	-211.61-709.75	-706.58	-214.78	39.61-1.688e+06-1.894e+06-1.887e+06-1.695e+06	0.636.61e+04
343	26.22	-303.50-661.02	-656.14	-308.39	41.52-1.342e+06-1.506e+06-1.342e+06-1.506e+06	2542.68	
342	26.03	-275.04-662.96	-624.11	-313.88	-116.44-1.179e+06-1.600e+06-1.354e+06-1.426e+06	0.620.71e+05	
373	32.45	-200.71-707.71	-676.86	-231.57	-121.21-1.499e+06-2.003e+06-1.893e+06-1.609e+06	0.620.82e+05	
326	1375	41.47	-271.96-876.91	-845.84	-303.03	133.53-1.950e+06-2.542e+06-2.437e+06-2.055e+06	0.622.68e+05
344	33.24	-367.88-821.08	-780.48	-408.48	129.43-1.551e+06-2.017e+06-1.747e+06-1.821e+06	0.623.03e+05	
343	33.42	-394.29-819.11	-808.25	-405.14	-67.03-1.731e+06-1.906e+06-1.736e+06-1.901e+06	0.628.68e+04	
374	41.62	-281.01-878.51	-871.17	-288.35	-65.80-2.142e+06-2.431e+06-2.431e+06-2.142e+06	-9043.75	
326	2375	32.49	-206.09-708.22	-684.35	-229.96	106.85-1.536e+06-1.984e+06-1.898e+06-1.622e+06	0.617.65e+05
344	26.06	-282.91-662.25	-631.61	-313.55	103.36-1.213e+06-1.582e+06-1.356e+06-1.438e+06	0.618.00e+05	
343	26.21	-302.24-661.71	-652.98	-310.98	-55.36-1.344e+06-1.503e+06-1.348e+06-1.500e+06	0.624.86e+04	
374	32.62	-212.57-709.94	-703.84	-218.67	-54.75-1.689e+06-1.894e+06-1.894e+06-1.689e+06	-4867.83	



327	1376	40.90	-226.08-867.38	-784.16	-309.30	215.51-1.565e+06-2.659e+06-2.348e+06-1.876e+06-4.938e+05
345	32.84		-297.95-817.90	-718.40	-397.44	204.53-1.217e+06-2.133e+06-1.691e+06-1.659e+06-4.574e+05
344	33.42		-383.16-814.96	-814.43	-383.68	15.04-1.539e+06-2.034e+06-1.654e+06-1.919e+06-2.090e+05
375	41.38		-257.86-873.34	-872.46	-258.74	23.19-1.946e+06-2.541e+06-2.329e+06-2.158e+06-2.852e+05
327	2376	32.03	-172.61-699.08	-636.91	-234.78	169.90-1.238e+06-2.076e+06-1.830e+06-1.484e+06-3.819e+05
345	25.73		-231.39-657.52	-583.86	-305.06	161.13-9.585e+05-1.668e+06-1.313e+06-1.313e+06-3.547e+05
344	26.19		-294.31-657.90	-657.73	-294.47	7.77-1.204e+06-1.594e+06-1.285e+06-1.513e+06-1.580e+05
375	32.42		-195.52-705.20	-704.83	-195.89	13.71-1.533e+06-1.983e+06-1.815e+06-1.701e+06-2.173e+05
328	1377	39.97	-148.64-845.54	-692.33	-301.85	288.61-1.104e+06-2.678e+06-2.161e+06-1.621e+06-7.392e+05
346	32.30		-198.34-799.65	-628.79	-369.21	271.20-8.283e+05-2.164e+06-1.564e+06-1.429e+06-6.647e+05
345	33.19		-325.72-808.77	-788.89	-345.60	95.96-1.209e+06-2.152e+06-1.503e+06-1.858e+06-4.368e+05
376	40.73		-198.53-858.90	-839.81	-217.62	110.65-1.558e+06-2.655e+06-2.129e+06-2.085e+06-5.482e+05
328	2377	31.27	-115.58-679.74	-566.27	-229.05	226.14-8.823e+05-2.091e+06-1.686e+06-1.288e+06-5.707e+05
346	25.27		-157.20-641.06	-514.92	-283.34	212.42-6.602e+05-1.691e+06-1.215e+06-1.136e+06-5.141e+05
345	26.00		-252.47-650.80	-638.08	-265.18	70.01-9.521e+05-1.682e+06-1.168e+06-1.466e+06-3.332e+05
376	31.89		-151.84-692.14	-679.71	-164.26	80.99-1.233e+06-2.073e+06-1.661e+06-1.645e+06-4.196e+05
329	1378	39.64	-48.58-806.80	-574.37	-281.01	349.58-5.954e+05-2.587e+06-1.883e+06-1.300e+06-9.524e+05
347	33.11		-80.21-760.34	-515.53	-325.03	326.45-4.055e+05-2.107e+06-1.370e+06-1.142e+06-8.430e+05
346	32.77		-233.17-792.14	-732.75	-292.56	172.25-8.236e+05-2.184e+06-1.287e+06-1.720e+06-6.450e+05
377	39.74		-110.79-830.61	-774.60	-166.79	192.82-1.095e+06-2.671e+06-1.839e+06-1.926e+06-7.868e+05
329	2378	30.78	-41.33-647.22	-475.53	-213.02	273.04-4.909e+05-2.022e+06-1.472e+06-1.041e+06-7.347e+05
347	25.72		-68.50-608.66	-427.80	-249.35	254.92-3.354e+05-1.647e+06-1.066e+06-9.157e+05-6.513e+05
346	25.63		-184.06-635.21	-594.90	-224.38	128.70-6.568e+05-1.706e+06-1.003e+06-1.360e+06-4.934e+05
377	31.08		-86.85-667.87	-629.56	-125.16	144.20-8.761e+05-2.085e+06-1.439e+06-1.523e+06-6.032e+05
330	1348	35.01	47.27-697.68	-266.80	-383.61	-367.87 3.189e+04-1.962e+06-8.109e+05-1.119e+06-9.848e+05
347	33.24		-117.84-757.49	-226.89	-648.44	-240.55-4.050e+05-2.127e+06-1.513e+06-1.018e+06-8.245e+05
378	39.70		-3.75-784.42	-108.46	-679.71	-266.05-5.848e+05-2.578e+06-1.689e+06-1.473e+06-9.906e+05
379	41.22		65.18-748.28	-247.65	-435.45	-395.74-6.424e+04-2.390e+06-9.287e+05-1.526e+06-1.124e+06
330	2348	27.12	27.72-558.61	-204.56	-326.33	-286.78 755.64-1.535e+06-6.608e+05-8.731e+05-7.603e+05
347	25.81		-97.86-606.05	-173.86	-530.05	-181.23-3.353e+05-1.662e+06-1.201e+06-7.958e+05-6.314e+05
378	30.81		-7.11-629.74	-80.29	-556.56	-200.52-4.834e+05-2.014e+06-1.341e+06-1.157e+06-7.599e+05
379	31.93		43.57-599.60	-187.36	-368.67	-308.54-8.207e+04-1.871e+06-7.555e+05-1.198e+06-8.667e+05
331	1403	46.16	-123.40-905.45	-826.67	-202.18	-235.39-1.365e+06-3.341e+06-2.404e+06-2.302e+06-9.867e+05
371	38.35		-262.92-868.04	-781.60	-349.37	-211.75-1.076e+06-2.756e+06-1.755e+06-2.077e+06-8.247e+05
370	37.95		-85.73-829.17	-534.33	-380.56	-363.68-5.434e+05-2.621e+06-1.811e+06-1.354e+06-1.013e+06
402	45.18		-51.05-875.90	-597.78	-329.16	-389.94-7.514e+05-3.183e+06-2.406e+06-1.529e+06-1.134e+06
331	2403	36.14	-99.16-727.12	-672.61	-153.68	-176.81-1.095e+06-2.611e+06-1.886e+06-1.820e+06-7.573e+05
371	30.01		-210.20-694.64	-635.17	-269.67	-158.97-8.614e+05-2.154e+06-1.372e+06-1.643e+06-6.319e+05
370	29.47		-75.74-662.89	-444.97	-293.66	-283.66-4.516e+05-2.050e+06-1.415e+06-1.086e+06-7.821e+05
402	35.10		-45.96-701.93	-496.54	-251.36	-304.21-6.216e+05-2.491e+06-1.887e+06-1.225e+06-8.741e+05
332	1404	47.93	-231.38-936.25	-903.46	-264.17	-148.45-1.925e+06-3.382e+06-2.799e+06-2.508e+06-7.143e+05
372	39.32		-378.35-884.45	-847.97	-414.83	-130.89-1.564e+06-2.749e+06-2.055e+06-2.258e+06-6.839e+05
371	37.82		-224.76-874.69	-660.62	-438.83	-305.45-1.081e+06-2.730e+06-2.098e+06-1.713e+06-8.018e+05
403	46.43		-170.46-919.60	-729.88	-360.18	-325.79-1.377e+06-3.349e+06-2.800e+06-1.926e+06-8.844e+05
332	2404	37.55	-179.48-753.57	-731.68	-201.36	-109.93-1.526e+06-2.642e+06-2.189e+06-1.979e+06-6.478e+05
372	30.80		-296.02-710.23	-686.23	-320.02	-96.77-1.237e+06-2.148e+06-1.603e+06-1.782e+06-4.466e+05



371	29.61	-180.63-699.96	-542.12	-338.48	-238.87-8.653e+05-2.134e+06-1.636e+06-1.363e+066.194e+05	
403	36.35	-134.98-738.39	-598.15	-275.22	-254.86-1.103e+06-2.618e+06-2.190e+06-1.531e+066.820e+05	
333	1405	49.14	-310.01-950.16	-945.51	-314.65	-54.34-2.371e+06-3.315e+06-3.075e+06-2.610e+064.109e+05
373	39.92	-457.93-886.19	-881.69	-462.44	-43.68-1.987e+06-2.627e+06-2.269e+06-2.345e+063.177e+05	
372	38.91	-346.29-894.42	-762.62	-478.09	-234.25-1.574e+06-2.724e+06-2.296e+06-2.003e+065.557e+05	
404	48.13	-267.35-943.17	-835.02	-375.51	-247.78-1.933e+06-3.387e+06-3.076e+06-2.245e+065.966e+05	
333	2405	38.51	-237.52-766.70	-764.03	-240.20	-37.54-1.871e+06-2.588e+06-2.401e+06-2.057e+063.144e+05
373	31.29	-354.18-714.63	-712.17	-356.64	-29.69-1.563e+06-2.053e+06-1.768e+06-1.849e+062.418e+05	
372	30.50	-271.57-717.69	-620.57	-368.69	-184.10-1.245e+06-2.129e+06-1.788e+06-1.586e+064.300e+05	
404	37.71	-206.63-759.40	-679.03	-287.01	-194.85-1.532e+06-2.646e+06-2.402e+06-1.776e+064.606e+05	
334	1406	49.63	-348.34-953.92	-950.89	-351.37	42.72-2.592e+06-3.234e+06-3.221e+06-2.604e+068.998e+04
374	40.07	-484.80-886.55	-881.22	-490.13	45.96-2.315e+06-2.406e+06-2.386e+06-2.335e+063.777e+04	
373	39.69	-437.74-894.68	-835.75	-496.67	-153.15-2.002e+06-2.603e+06-2.396e+06-2.209e+062.859e+05	
405	49.25	-330.51-952.40	-908.49	-374.41	-159.30-2.376e+06-3.316e+06-3.221e+06-2.471e+062.833e+05	
334	2406	38.90	-265.70-770.91	-768.16	-268.44	37.12-2.043e+06-2.523e+06-2.514e+06-2.053e+066.753e+04
374	31.42	-373.39-716.36	-711.81	-377.94	39.26-1.822e+06-1.877e+06-1.858e+06-1.841e+062.651e+04	
373	31.12	-339.11-720.70	-676.83	-382.98	-121.71-1.574e+06-2.036e+06-1.865e+06-1.745e+062.225e+05	
405	38.60	-252.86-768.86	-735.55	-286.17	-126.79-1.875e+06-2.589e+06-2.514e+06-1.950e+062.196e+05	
335	1407	49.35	-339.55-952.41	-919.24	-372.72	138.66-2.423e+06-3.300e+06-3.232e+06-2.491e+06-2.349e+05
375	39.76	-451.15-892.08	-846.47	-496.76	134.28-2.057e+06-2.574e+06-2.402e+06-2.229e+06-2.439e+05	
374	40.05	-482.83-887.70	-876.69	-493.84	-65.85-2.325e+06-2.395e+06-2.395e+06-2.325e+06	4385.18
406	49.64	-350.01-953.87	-946.93	-356.95	-64.38-2.592e+06-3.234e+06-3.231e+06-2.595e+06-4.173e+04	
335	2407	38.68	-259.46-769.22	-743.82	-284.86	110.92-1.911e+06-2.576e+06-2.522e+06-1.966e+06-1.824e+05
375	31.17	-348.86-719.26	-685.08	-383.05	107.20-1.617e+06-2.013e+06-1.870e+06-1.759e+06-1.902e+05	
374	31.41	-371.95-717.18	-708.33	-380.80	-54.56-1.833e+06-1.866e+06-1.865e+06-1.834e+06	5926.12
406	38.91	-266.93-770.92	-765.12	-272.73	-53.78-2.043e+06-2.524e+06-2.522e+06-2.045e+06-3.041e+04	
336	1408	48.32	-285.22-944.46	-851.96	-377.71	228.96-2.002e+06-3.379e+06-3.106e+06-2.276e+06-5.492e+05
376	39.02	-367.45-893.50	-778.95	-482.00	217.11-1.640e+06-2.708e+06-2.316e+06-2.031e+06-5.148e+05	
375	39.95	-468.28-885.03	-883.64	-469.68	24.07-2.041e+06-2.597e+06-2.292e+06-2.345e+06-2.768e+05	
407	49.25	-322.09-950.37	-948.62	-323.83	33.08-2.418e+06-3.298e+06-3.105e+06-2.611e+06-3.645e+05	
336	2408	37.87	-219.81-760.96	-692.07	-288.70	180.38-1.586e+06-2.639e+06-2.425e+06-1.800e+06-4.242e+05
376	30.58	-287.24-717.60	-633.14	-371.69	170.92-1.296e+06-2.117e+06-1.804e+06-1.608e+06-3.986e+05	
375	31.32	-361.61-714.27	-713.67	-362.21	14.61-1.605e+06-2.030e+06-1.786e+06-1.849e+06-2.104e+05	
407	38.60	-246.39-767.29	-766.42	-247.26	21.19-1.908e+06-2.575e+06-2.424e+06-2.058e+06-2.787e+05	
337	1409	46.68	-194.08-923.98	-751.91	-366.16	309.82-1.461e+06-3.357e+06-2.849e+06-1.968e+06-8.395e+05
377	37.94	-250.25-877.86	-681.56	-446.55	290.97-1.156e+06-2.729e+06-2.133e+06-1.752e+06-7.632e+05	
376	39.40	-397.75-883.74	-856.15	-425.33	112.44-1.629e+06-2.733e+06-2.093e+06-2.268e+06-5.452e+05	
408	48.13	-251.55-938.37	-913.40	-276.53	128.56-1.994e+06-3.375e+06-2.848e+06-2.521e+06-6.706e+05	
337	2409	36.55	-152.59-742.33	-615.11	-279.81	242.58-1.168e+06-2.623e+06-2.228e+06-1.563e+06-6.474e+05
377	29.71	-199.75-702.90	-558.22	-344.43	227.73-9.229e+05-2.133e+06-1.663e+06-1.393e+06-5.897e+05	
376	30.87	-310.26-710.37	-692.53	-328.10	82.59-1.287e+06-2.135e+06-1.633e+06-1.790e+06-4.169e+05	
408	37.72	-194.43-755.76	-739.33	-210.87	94.64-1.580e+06-2.635e+06-2.227e+06-1.988e+06-5.142e+05	
338	1410	44.85	-77.39-884.62	-623.46	-338.55	377.64-8.467e+05-3.208e+06-2.474e+06-1.581e+06-1.093e+06
378	37.52	-112.98-837.52	-558.53	-391.97	352.57-6.261e+05-2.636e+06-1.860e+06-1.402e+06-9.784e+05	
377	38.45	-287.53-870.66	-795.44	-362.75	195.47-1.150e+06-2.755e+06-1.806e+06-2.099e+06-7.892e+05	
409	46.41	-148.65-911.20	-842.75	-217.09	217.96-1.449e+06-3.349e+06-2.472e+06-2.326e+06-9.470e+05	



338	2410	34.88	-65.75-709.12	-516.30	-258.57	294.75-6.950e+05-2.510e+06-1.939e+06-1.265e+06-8.424e+05
378	29.15		-96.34-669.69	-463.59	-302.44	275.12-5.154e+05-2.061e+06-1.453e+06-1.123e+06-7.552e+05
377	30.09		-228.56-697.23	-645.82	-279.96	146.45-9.185e+05-2.153e+06-1.412e+06-1.659e+06-6.046e+05
409	36.34		-118.05-732.08	-684.98	-165.15	163.41-1.160e+06-2.617e+06-1.938e+06-1.839e+06-7.268e+05
339	1379	39.08	34.07-769.95	-320.61	-415.27	-399.21-7.414e+04-2.433e+06-9.972e+05-1.510e+06-1.151e+06
378	37.73		-152.92-835.88	-284.66	-704.14	-269.47-6.257e+05-2.662e+06-1.844e+06-1.444e+06-9.982e+05
410	44.93		-24.51-863.37	-148.09	-739.79	-297.31-8.337e+05-3.197e+06-2.038e+06-1.993e+06-1.182e+06
411	45.79		54.23-822.53	-296.04	-472.26	-429.44-1.950e+05-2.933e+06-1.132e+06-1.996e+06-1.299e+06
339	2379	30.27	14.99-615.93	-247.54	-353.39	-310.99-9.065e+04-1.905e+06-8.121e+05-1.184e+06-8.880e+05
378	29.29		-127.57-667.92	-219.89	-575.60	-203.38-5.152e+05-2.081e+06-1.463e+06-1.133e+06-7.653e+05
410	34.90		-25.29-692.56	-112.07	-605.78	-224.44-6.856e+05-2.501e+06-1.617e+06-1.569e+06-9.072e+05
411	35.50		32.80-658.67	-225.88	-399.99	-334.59-1.933e+05-2.298e+06-9.201e+05-1.571e+06-1.001e+06
340	1380	40.23	182.19-675.82	-235.69	-257.93	-428.86 4.761e+05-2.128e+06-5.552e+05-1.097e+06-1.274e+06
379	39.24		-5.53-775.18	-194.56	-586.16	-331.29-7.925e+04-2.457e+06-1.515e+06-1.022e+06-1.163e+06
411	45.85		110.73-792.24	-72.62	-608.89	-363.24-1.806e+05-2.919e+06-1.666e+06-1.433e+06-1.364e+06
412	46.46		191.38-736.80	-240.62	-304.79	-462.98 4.636e+05-2.540e+06-6.402e+05-1.436e+06-1.448e+06
340	2380	31.09	127.45-542.03	-182.23	-232.36	-333.80 3.327e+05-1.671e+06-4.721e+05-8.661e+05-9.823e+05
379	30.39		-16.22-619.20	-150.58	-484.84	-250.93-9.477e+04-1.924e+06-1.210e+06-8.086e+05-8.922e+05
411	35.52		76.22-635.33	-54.02	-505.09	-275.16-1.828e+05-2.287e+06-1.331e+06-1.139e+06-1.048e+06
412	35.92		135.86-590.28	-183.25	-271.17	-360.39 3.137e+05-1.996e+06-5.419e+05-1.141e+06-1.116e+06
341	1381	40.80	323.70-558.02	-140.88	-93.43	-440.22 1.001e+06-1.736e+06-9.529e+04-6.400e+05-1.341e+06
380	40.33		145.25-688.29	-96.36	-446.68	-378.18 4.656e+05-2.150e+06-1.125e+06-5.595e+05-1.277e+06
412	46.48		248.12-697.89	6.06	-455.83	-412.80 4.785e+05-2.524e+06-1.230e+06-8.160e+05-1.487e+06
413	46.72		325.78-628.88	-174.66	-128.44	-476.77 1.099e+06-2.046e+06-1.276e+05-8.194e+05-1.534e+06
341	2381	31.46	234.99-450.10	-109.29	-105.82	-342.54 7.363e+05-1.369e+06-1.183e+05-5.147e+05-1.034e+06
380	31.16		98.11-550.71	-75.05	-377.55	-287.00 3.245e+05-1.688e+06-9.107e+05-4.528e+05-9.798e+05
412	35.92		179.61-560.46	6.50	-387.35	-313.28 3.246e+05-1.984e+06-9.952e+05-6.638e+05-1.142e+06
413	36.03		237.00-505.02	-132.50	-135.51	-371.00 8.030e+05-1.617e+06-1.476e+05-6.664e+05-1.182e+06
342	1382	40.68	451.68-420.96	-40.32	71.04	-432.75 1.477e+06-1.273e+06-3.626e+05-1.590e+05-1.350e+06
381	40.82		291.28-577.42	5.62	-291.76	-408.11 9.853e+05-1.755e+06-6.933e+05-7.640e+04-1.335e+06
413	46.69		379.79-582.55	84.47	-287.23	-443.83 1.114e+06-2.029e+06-7.456e+05-1.690e+05-1.545e+06
414	46.49		450.18-502.14	-101.06	49.10	-470.20 1.684e+06-1.473e+06-3.839e+05-1.725e+05-1.554e+06
342	2382	31.30	332.20-343.44	-31.94	20.70	-336.80 1.103e+06-1.014e+06-2.339e+05-1.448e+05-1.041e+06
381	31.47		209.03-464.01	3.40	-258.38	-310.02 7.243e+05-1.384e+06-5.783e+05-8.121e+04-1.024e+06
413	35.99		278.74-469.58	66.82	-257.66	-337.16 8.139e+05-1.603e+06-6.230e+05-1.661e+05-1.187e+06
414	35.77		330.55-405.39	-75.89	1.06	-365.95 1.253e+06-1.176e+06-2.459e+05-1.688e+05-1.197e+06
343	1383	39.86	560.23-270.38	61.70	228.15	-406.88 1.884e+06-7.604e+05-7.980e+05-3.255e+05-1.301e+06
382	40.61		425.20-446.51	107.03	-128.34	-419.67 1.457e+06-1.288e+06-2.378e+05-4.067e+05-1.334e+06
414	46.41		498.90-450.19	159.35	-110.64	-454.94 1.698e+06-1.454e+06-2.366e+05-4.804e+05-1.535e+06
415	45.77		558.38-361.37	-22.89	219.90	-443.56 2.193e+06-8.447e+05-8.714e+05-4.769e+05-1.506e+06
343	2383	30.60	414.47-226.39	46.54	141.55	-316.89 1.416e+06-6.192e+05-5.688e+05-2.280e+05-1.003e+06
382	31.24		310.76-362.03	81.41	-132.68	-318.91 1.087e+06-1.025e+06-2.279e+05-2.904e+05-1.024e+06
414	35.68		368.27-365.67	124.42	-121.82	-345.70 1.263e+06-1.161e+06-2.314e+05-3.334e+05-1.179e+06
415	35.12		411.66-294.98	-15.76	132.44	-345.46 1.645e+06-6.934e+05-6.208e+05-3.308e+05-1.160e+06
344	1384	38.40	644.43-112.61	160.63	371.18	-363.58 2.205e+06-2.196e+05-1.193e+06-7.920e+05-1.195e+06
383	39.70		540.81-300.85	203.32	36.63	-412.49 1.861e+06-7.704e+05-2.222e+05-8.682e+05-1.275e+06



	415	45.64	599.67-306.04	227.20	66.44	-445.66	2.205e+06	-8.261e+05	2.763e+05	1.103e+06	1.458e+06
	416	44.62	645.47-212.58	56.22	376.68	-397.98	2.604e+06	-1.898e+05	1.315e+06	1.100e+06	1.393e+06
344	2384	29.41	477.93-103.72	122.64	251.58	-283.59	1.663e+06	-2.034e+05	8.726e+05	5.868e+05	9.221e+05
	383	30.47	398.45-248.75	155.48	-5.77	-313.40	1.398e+06	-6.267e+05	1.259e+05	6.454e+05	9.785e+05
	415	35.00	443.65-252.64	176.62	14.39	-338.56	1.654e+06	-6.784e+05	1.631e+05	8.124e+05	1.120e+06
	416	34.15	476.41-178.28	45.09	253.04	-310.40	1.962e+06	-1.900e+05	9.617e+05	8.099e+05	1.073e+06
345	1385	36.49	700.8245.13	252.27	493.68	-304.82	2.425e+06	3.254e+05	1.530e+06	1.221e+06	1.038e+06
	384	38.18	632.72-146.55	290.39	195.78	-386.75	2.179e+06	-2.244e+05	6.661e+05	1.288e+06	1.161e+06
	416	44.46	677.72-156.43	285.22	236.07	-416.35	2.614e+06	-1.717e+05	7.701e+05	1.673e+06	1.318e+06
	417	43.19	708.00-62.71	132.95	512.34	-335.43	2.901e+06	4.622e+05	1.694e+06	1.670e+06	1.219e+06
345	2385	27.87	519.7819.16	193.13	345.81	-238.39	1.833e+06	2.156e+05	1.132e+06	9.166e+05	8.013e+05
	384	29.23	467.87-128.77	222.45	116.65	-293.59	1.643e+06	-2.069e+05	4.674e+05	9.686e+05	8.903e+05
	416	34.01	501.38-135.25	221.25	144.88	-316.02	1.969e+06	-1.755e+05	5.430e+05	1.250e+06	1.012e+06
	417	32.96	522.01-60.50	104.11	357.39	-262.28	2.191e+06	3.111e+05	1.253e+06	1.248e+06	9.397e+05
346	1385	36.23	697.02 9.53	342.06	364.49	343.56	2.398e+06	3.260e+05	1.649e+06	1.075e+06	-9.953e+05
	417	43.01	730.28-8.65	390.77	330.86	368.25	2.909e+06	4.789e+05	2.164e+06	1.224e+06	-1.120e+06
	418	42.18	744.6180.19	620.86	203.95	258.67	3.074e+06	1.080e+06	2.162e+06	1.993e+06	-9.935e+05
	386	35.08	727.77195.09	590.21	332.65	233.14	2.536e+06	8.507e+05	1.593e+06	1.794e+06	-8.367e+05
346	2385	27.66	515.90-7.27	229.17	279.45	260.37	1.812e+06	2.163e+05	1.246e+06	7.817e+05	-7.631e+05
	417	32.80	539.16-18.92	263.88	256.36	279.01	2.196e+06	3.246e+05	1.629e+06	8.917e+05	-8.601e+05
	418	31.85	547.1952.40	440.87	158.73	203.23	2.324e+06	7.859e+05	1.627e+06	1.483e+06	-7.659e+05
	386	26.50	538.49136.53	420.05	254.96	183.25	1.918e+06	6.194e+05	1.203e+06	1.335e+06	-6.461e+05
347	1386	34.54	731.46159.96	469.11	422.30	284.79	2.509e+06	8.568e+05	1.935e+06	1.431e+06	-7.867e+05
	418	42.40	756.93128.88	523.81	362.00	303.43	3.079e+06	1.095e+06	2.557e+06	1.617e+06	-8.739e+05
	419	43.60	757.01206.46	697.49	265.97	170.95	3.123e+06	1.631e+06	2.555e+06	2.199e+06	-7.247e+05
	387	35.74	726.55328.22	656.53	398.24	151.62	2.534e+06	1.333e+06	1.893e+06	1.975e+06	-5.991e+05
347	2386	26.08	540.58110.25	326.91	323.92	215.16	1.897e+06	6.242e+05	1.466e+06	1.056e+06	-6.026e+05
	418	32.01	556.4090.13	366.22	280.31	229.15	2.328e+06	7.978e+05	1.931e+06	1.195e+06	-6.706e+05
	419	32.87	553.00153.26	499.82	206.44	135.76	2.363e+06	1.209e+06	1.929e+06	1.642e+06	-5.591e+05
	387	26.95	534.50241.99	471.07	305.42	120.54	1.918e+06	9.899e+05	1.433e+06	1.474e+06	-4.634e+05
348	1387	35.32	736.24296.40	571.27	461.37	212.95	2.508e+06	1.344e+06	2.133e+06	1.719e+06	-5.437e+05
	419	43.78	760.83245.69	629.23	377.28	224.66	3.125e+06	1.643e+06	2.833e+06	1.935e+06	-5.897e+05
	420	44.62	752.01303.02	738.69	316.33	76.16	3.068e+06	2.068e+06	2.832e+06	2.304e+06	-4.247e+05
	388	36.16	705.32430.50	689.58	446.24	63.85	2.422e+06	1.749e+06	2.107e+06	2.065e+06	-3.358e+05
348	2387	26.62	541.69217.77	405.49	353.97	159.89	1.897e+06	9.986e+05	1.619e+06	1.277e+06	-4.157e+05
	419	33.00	555.26184.11	447.31	292.06	168.56	2.364e+06	1.218e+06	2.143e+06	1.439e+06	-4.519e+05
	420	33.61	544.70231.99	531.51	245.18	62.84	2.323e+06	1.543e+06	2.143e+06	1.723e+06	-3.284e+05
	388	27.24	512.97325.86	496.50	342.34	53.03	1.833e+06	1.308e+06	1.598e+06	1.543e+06	-2.609e+05
349	1388	35.92	716.62407.33	643.93	480.02	131.15	2.399e+06	1.765e+06	2.236e+06	1.928e+06	-2.772e+05
	420	44.72	751.13327.13	702.28	375.98	135.38	3.068e+06	2.076e+06	2.981e+06	2.163e+06	-2.800e+05
	391	45.06	743.69351.62	742.51	352.80	-21.46	2.998e+06	2.289e+06	2.981e+06	2.305e+06	-1.066e+05
	389	36.27	690.96471.42	687.79	474.59	-26.21	2.245e+06	2.042e+06	2.226e+06	2.061e+06	-5.830e+04
349	2388	27.05	522.41307.29	461.38	368.32	96.97	1.815e+06	1.320e+06	1.698e+06	1.438e+06	-2.106e+05
	420	33.69	543.09251.48	503.50	291.06	99.88	2.322e+06	1.550e+06	2.257e+06	1.614e+06	-2.137e+05
	391	33.94	535.02272.65	534.45	273.23	-12.25	2.270e+06	1.711e+06	2.257e+06	1.724e+06	-8.368e+04
	389	27.31	497.11362.16	495.12	364.15	-16.26	1.704e+06	1.526e+06	1.690e+06	1.540e+06	-4.740e+04



350	1389	36.25	692.37468.93	683.73	477.57	43.07	2.238e+06	2.048e+06	2.238e+06	2.048e+06	1501.70
	391	45.07	743.60354.09	739.54	358.16	39.58	2.998e+06	2.290e+06	2.995e+06	2.292e+06	4.167e+04
	392	44.85	745.92336.51	708.66	373.76	-117.74	3.051e+06	2.146e+06	2.996e+06	2.201e+06	2.164e+05
	390	36.04	709.16424.11	651.14	482.13	-114.77	2.367e+06	1.841e+06	2.246e+06	1.963e+06	2.219e+05
350	2389	27.29	498.47359.97	492.00	366.43	29.22	1.699e+06	1.530e+06	1.699e+06	1.530e+06	3702.21
	391	33.94	534.83274.69	532.17	277.35	26.18	2.270e+06	1.712e+06	2.268e+06	1.714e+06	3.374e+04
	392	33.79	538.34259.43	508.42	289.35	-86.32	2.309e+06	1.603e+06	2.268e+06	1.644e+06	1.648e+05
	390	27.14	515.75321.12	466.93	369.94	-84.37	1.792e+06	1.378e+06	1.705e+06	1.465e+06	1.682e+05
351	1390	36.23	698.22444.80	688.94	454.07	-47.58	2.390e+06	1.825e+06	2.140e+06	2.075e+06	2.805e+05
	392	44.77	747.47316.39	739.33	324.53	-58.69	3.052e+06	2.139e+06	2.874e+06	2.317e+06	3.617e+05
	393	44.03	754.01263.04	638.76	378.28	-208.09	3.124e+06	1.747e+06	2.875e+06	1.997e+06	5.306e+05
	361	35.50	730.36319.41	581.38	468.39	-197.56	2.499e+06	1.440e+06	2.164e+06	1.775e+06	4.929e+05
351	2390	27.29	506.40337.98	496.01	348.36	-40.51	1.809e+06	1.366e+06	1.623e+06	1.551e+06	2.183e+05
	392	33.72	540.45243.04	532.00	251.49	-49.40	2.310e+06	1.597e+06	2.174e+06	1.733e+06	2.800e+05
	393	33.19	549.30198.17	454.65	292.83	-155.81	2.364e+06	1.298e+06	2.175e+06	1.487e+06	4.064e+05
	361	26.76	536.81235.83	413.27	359.37	-148.06	1.891e+06	1.072e+06	1.642e+06	1.321e+06	3.766e+05
352	1361	35.89	719.57350.38	659.29	410.66	-136.46	2.525e+06	1.428e+06	1.944e+06	2.008e+06	5.479e+05
	393	43.87	751.93226.30	701.56	276.67	-154.72	3.123e+06	1.736e+06	2.622e+06	2.238e+06	6.665e+05
	394	42.74	751.80150.52	536.08	366.25	-288.40	3.105e+06	1.218e+06	2.623e+06	1.700e+06	8.229e+05
	362	34.77	729.76185.91	481.75	433.93	-270.87	2.526e+06	9.640e+05	1.984e+06	1.506e+06	7.432e+05
352	2361	27.06	528.67259.50	473.20	314.97	-108.88	1.911e+06	1.062e+06	1.473e+06	1.500e+06	4.240e+05
	393	33.07	548.48169.14	502.96	214.67	-123.27	2.363e+06	1.289e+06	1.981e+06	1.672e+06	5.144e+05
	394	32.26	552.02107.21	375.66	283.57	-217.59	2.348e+06	8.927e+05	1.982e+06	1.259e+06	6.313e+05
	362	26.25	539.21130.28	336.63	332.87	-204.46	1.910e+06	7.067e+05	1.504e+06	1.113e+06	5.692e+05
353	1362	35.30	724.60220.84	596.24	349.21	-219.52	2.553e+06	9.566e+05	1.660e+06	1.849e+06	7.926e+05
	394	42.53	741.63103.23	628.08	216.78	-244.12	3.101e+06	1.204e+06	2.250e+06	2.056e+06	9.436e+05
	395	42.87	728.6115.29	405.65	338.25	-355.06	2.963e+06	6.103e+05	2.251e+06	1.322e+06	1.081e+06
	363	35.97	700.1836.88	357.03	380.03	-331.45	2.439e+06	4.377e+05	1.714e+06	1.163e+06	9.622e+05
353	2362	26.66	535.97156.43	424.70	267.70	-172.77	1.931e+06	7.008e+05	1.255e+06	1.377e+06	6.122e+05
	394	32.10	544.5470.50	446.43	168.60	-192.04	2.345e+06	8.810e+05	1.694e+06	1.532e+06	7.275e+05
	395	32.68	537.64-0.27	275.33	262.04	-268.87	2.238e+06	4.256e+05	1.696e+06	9.677e+05	8.297e+05
	363	27.44	518.3813.72	240.69	291.41	-251.06	1.844e+06	3.022e+05	1.296e+06	8.496e+05	7.376e+05
354	1395	43.06	708.38-38.18	147.64	522.56	322.80	2.956e+06	5.934e+05	1.777e+06	1.773e+06	-1.182e+06
	396	44.41	680.56-131.15	295.62	253.80	405.32	2.694e+06	-4.291e+04	8.759e+05	1.776e+06	-1.293e+06
	364	38.02	640.82-118.83	308.86	213.13	376.80	2.242e+06	-1.162e+05	7.603e+05	1.366e+06	-1.140e+06
	363	36.24	702.4572.72	272.26	502.91	292.99	2.467e+06	4.355e+05	1.603e+06	1.300e+06	-1.004e+06
354	2395	32.84	522.10-41.43	115.41	365.26	252.56	2.233e+06	4.120e+05	1.317e+06	1.328e+06	-9.105e+05
	396	33.94	503.43-115.67	229.24	158.52	307.52	2.030e+06	-7.637e+04	6.243e+05	1.330e+06	-9.926e+05
	364	29.09	474.20-107.53	236.66	130.01	285.93	1.692e+06	-1.236e+05	5.399e+05	1.028e+06	-8.741e+05
	363	27.66	521.0940.33	208.51	352.91	229.28	1.865e+06	3.004e+05	1.188e+06	9.775e+05	-7.752e+05
355	1396	44.59	650.04-187.41	72.18	390.45	387.31	2.685e+06	-6.150e+04	1.410e+06	1.213e+06	-1.370e+06
	397	45.70	607.88-280.24	240.15	87.49	437.45	2.305e+06	-7.085e+05	3.799e+05	1.216e+06	-1.447e+06
	365	39.67	553.78-273.81	223.34	56.63	405.31	1.940e+06	-6.725e+05	3.146e+05	9.533e+05	-1.267e+06
	364	38.26	651.12-84.29	182.79	384.05	353.66	2.269e+06	-1.129e+05	1.278e+06	8.782e+05	-1.174e+06
355	2396	34.10	479.81-158.80	57.37	263.64	302.19	2.024e+06	-9.129e+04	1.036e+06	8.970e+05	-1.055e+06
	397	35.03	449.85-232.69	186.57	30.59	332.24	1.730e+06	-5.880e+05	2.428e+05	8.996e+05	-1.112e+06



365	30.43	408.50-228.00	170.88	9.62	307.87	1.459e+06-5.514e+05	1.970e+05	7.109e+05-9.719e+05			
364	29.29	483.17-82.02	139.68	261.47	275.96	1.712e+06-1.213e+05	9.378e+05	6.531e+05-9.056e+05			
356	1397	45.85	567.89-336.32	-6.29	237.86	435.31	2.293e+06-7.278e+05	9.711e+05	5.940e+05-1.499e+06		
398	46.57	512.93-425.01	174.36	-86.44	450.48	1.809e+06-1.353e+06	-1.426e+05	5.978e+05-1.537e+06			
366	40.72	442.88-421.37	127.47	-105.96	416.06	1.546e+06-1.205e+06	-1.536e+05	4.949e+05-1.337e+06			
365	39.85	572.03-242.46	84.53	245.04	399.26	1.965e+06-6.638e+05	8.866e+05	4.141e+05-1.293e+06			
356	2397	35.16	418.86-275.59	-2.99	146.26	339.11	1.722e+06-6.035e+05	6.975e+05	4.209e+05-1.154e+06		
398	35.80	378.94-346.17	135.97	-103.20	342.26	1.348e+06-1.084e+06	-1.591e+05	4.238e+05-1.181e+06			
366	31.31	324.37-342.69	97.13	-115.45	316.14	1.156e+06-9.610e+05	-1.631e+05	3.583e+05-1.026e+06			
365	30.58	423.63-204.98	64.10	154.55	311.03	1.478e+06-5.448e+05	6.370e+05	2.961e+05-9.970e+05			
357	1398	46.67	465.03-478.21	-84.40	71.22	465.16	1.795e+06-1.372e+06	4.790e+05-5.659e+04	-1.561e+06		
399	46.93	399.45-559.42	101.13	-261.10	443.91	1.228e+06-1.947e+06	-6.658e+05	-5.298e+04	-1.558e+06		
367	41.05	313.10-555.42	25.75	-268.07	408.66	1.078e+06-1.689e+06	-6.215e+05	1.083e+04	-1.347e+06		
366	40.81	468.49-394.83	-18.15	91.81	428.14	1.567e+06-1.191e+06	4.478e+05	-7.196e+04	-1.354e+06		
357	2398	35.89	341.84-386.83	-63.08	18.08	362.07	1.338e+06-1.099e+06	3.190e+05	-7.961e+04	-1.202e+06	
399	36.17	293.69-451.60	79.64	-237.55	337.21	9.015e+05-1.540e+06	-5.616e+05	-7.683e+04	-1.196e+06		
367	31.64	225.74-447.01	18.88	-240.15	310.44	7.960e+05-1.333e+06	-5.231e+05	-1.408e+04	-1.034e+06		
366	31.39	345.14-323.35	-14.88	36.68	333.25	1.172e+06-9.504e+05	2.995e+05	-7.776e+04	-1.044e+06		
358	1399	46.97	345.77-607.34	-158.78	-102.80	475.73	1.213e+06-1.965e+06	-4.153e+04	-7.102e+05	-1.553e+06	
400	46.78	272.31-678.15	23.55	-429.39	417.80	5.898e+05-2.462e+06	-1.165e+06	-7.071e+05	-1.508e+06		
368	40.67	170.33-670.55	-77.21	-423.01	383.24	5.578e+05-2.102e+06	-1.067e+06	-4.775e+05	-1.297e+06		
367	41.05	344.99-534.93	-120.50	-69.43	439.22	1.095e+06-1.671e+06	-1.745e+04	-5.585e+05	-1.356e+06		
358	2399	36.22	252.17-488.25	-120.29	-115.78	370.20	8.906e+05-1.554e+06	-8.137e+04	-5.824e+05	-1.197e+06	
400	36.14	197.97-545.02	19.96	-367.01	317.13	4.103e+05-1.936e+06	-9.453e+05	-5.800e+05	-1.159e+06		
368	31.41	117.24-536.90	-60.31	-359.34	290.90	3.955e+05-1.651e+06	-8.656e+05	-3.897e+05	-9.951e+05		
367	31.64	251.30-432.27	-93.62	-87.35	341.77	8.086e+05-1.319e+06	-5.842e+04	-4.520e+05	-1.045e+06		
359	1400	46.77	215.43-718.85	-226.24	-277.18	466.44	5.746e+05-2.478e+06	-5.653e+05	-1.338e+06	-1.476e+06	
401	46.18	137.66-776.95	-55.12	-584.17	373.04	-7.583e+04	-2.876e+06	-1.616e+06	-1.335e+06	-1.393e+06	
369	39.65	21.35-762.47	-176.87	-564.25	340.71	8874.99	-2.426e+06	-1.469e+06	-9.483e+05	-1.189e+06	
368	40.58	207.01-656.97	-217.87	-232.09	431.93	5.691e+05-2.080e+06	-4.869e+05	-1.024e+06	-1.297e+06		
359	2400	36.15	154.08-576.19	-172.19	-249.92	363.06	3.992e+05-1.949e+06	-4.843e+05	-1.065e+06	-1.137e+06	
401	35.76	96.60-623.22	-40.55	-486.07	282.70	-1.021e+05	-2.254e+06	-1.293e+06	-1.063e+06	-1.070e+06	
369	30.69	4.19-609.15	-136.98	-467.98	258.17	-2.688e+04	-1.900e+06	-1.175e+06	-7.519e+05	-9.124e+05	
368	31.35	146.38-527.38	-168.52	-212.48	336.16	4.043e+05-1.634e+06	-4.195e+05	-8.101e+05	-1.000e+06		
360	1401	46.12	80.57-809.05	-283.89	-444.59	437.49	-9.054e+04	-2.889e+06	-1.068e+06	-1.912e+06	-1.334e+06
402	45.26	2.90-852.97	-131.49	-718.57	311.39	-7.380e+05	-3.172e+06	-2.001e+06	-1.910e+06	-1.216e+06	
370	38.16	-126.04-828.43	-268.92	-685.55	282.74	-5.437e+05	-2.647e+06	-1.811e+06	-1.381e+06	-1.030e+06	
369	39.48	60.98-756.17	-305.87	-389.32	406.43	1.475e+04	-2.401e+06	-9.390e+05	-1.448e+06	-1.181e+06	
360	2401	35.74	52.69-647.92	-216.53	-378.70	340.79	-1.128e+05	-2.265e+06	-8.713e+05	-1.507e+06	-1.028e+06
402	35.14	-4.65-684.11	-99.30	-589.46	235.27	-6.119e+05	-2.482e+06	-1.588e+06	-1.505e+06	-9.339e+05	
370	29.62	-107.30-661.78	-207.79	-561.29	213.59	-4.521e+05	-2.070e+06	-1.438e+06	-1.084e+06	-7.894e+05	
369	30.58	35.45-605.08	-236.21	-333.42	316.55	-2.216e+04	-1.881e+06	-7.673e+05	-1.136e+06	-9.110e+05	
361	1427	50.09	232.08-785.01	-257.21	-295.71	508.18	5.731e+05-2.946e+06	-6.802e+05	-1.693e+06	-1.685e+06	
428	50.38	114.29-861.75	-107.68	-639.78	409.12	-2.416e+05	-3.494e+06	-1.952e+06	-1.784e+06	-1.624e+06	
401	43.64	3.32-844.63	-229.61	-611.69	378.49	-1.112e+05	-2.972e+06	-1.777e+06	-1.306e+06	-1.411e+06	
400	44.12	209.06-730.79	-268.73	-253.00	469.86	5.865e+05-2.521e+06	-6.065e+05	-1.328e+06	-1.511e+06		





361	2427	38.74	164.08-629.62	-198.04	-267.50	395.33	3.857e+05-2.321e+06-5.824e+05-1.353e+06-1.297e+06
	428	39.06	75.45-690.62	-83.01	-532.17	310.29-2.417e+05-2.742e+06-1.560e+06-1.423e+06-1.248e+06	
	401	33.81	-13.09-674.28	-179.88	-507.49	287.16-1.304e+05-2.330e+06-1.421e+06-1.039e+06-1.083e+06	
	400	34.10	144.81-586.35	-209.97	-231.57	365.42	4.066e+05-1.983e+06-5.210e+05-1.056e+06-1.165e+06
362	1428	50.13	76.34-887.21	-332.69	-478.18	476.25-2.449e+05-3.485e+06-1.288e+06-2.442e+06-1.514e+06	
	429	50.39	-42.02-942.78	-199.50	-785.31	342.12-1.041e+06-3.898e+06-2.416e+06-2.523e+06-1.427e+06	
	402	42.68	-168.37-917.77	-342.46	-743.68	316.48-7.963e+05-3.274e+06-2.195e+06-1.875e+06-1.228e+06	
	401	43.42	40.17-841.63	-377.76	-423.70	440.30-1.072e+05-2.943e+06-1.157e+06-1.894e+06-1.369e+06	
362	2428	38.88	46.47-710.43	-256.09	-407.86	370.77-2.438e+05-2.735e+06-1.050e+06-1.929e+06-1.166e+06	
	429	39.17	-42.37-755.38	-153.64	-644.11	258.76-8.569e+05-3.052e+06-1.918e+06-1.991e+06-1.097e+06	
	402	33.15	-143.51-732.19	-266.69	-609.02	239.45-6.578e+05-2.562e+06-1.743e+06-1.476e+06-9.425e+05	
	401	33.64	16.06-672.78	-293.84	-362.88	342.68-1.272e+05-2.308e+06-9.444e+05-1.491e+06-1.056e+06	
363	1430	53.07	-188.72-996.39	-902.07	-283.04	-259.39-1.784e+06-4.152e+06-3.157e+06-2.780e+06-1.169e+06	
	403	44.19	-329.81-959.32	-848.30	-440.83	-239.92-1.449e+06-3.439e+06-2.365e+06-2.523e+06-9.920e+05	
	402	42.41	-130.02-921.77	-581.14	-470.65	-392.01-7.988e+05-3.243e+06-2.381e+06-1.661e+06-1.168e+06	
	429	50.09	-77.48-962.01	-645.49	-394.00	-424.01-1.047e+06-3.887e+06-3.089e+06-1.845e+06-1.277e+06	
363	2430	41.59	-152.43-799.40	-733.93	-217.90	-195.11-1.429e+06-3.247e+06-2.479e+06-2.198e+06-8.981e+05	
	403	34.62	-265.46-766.38	-689.49	-342.35	-180.56-1.160e+06-2.688e+06-1.854e+06-1.995e+06-7.608e+05	
	402	32.95	-113.39-735.88	-483.99	-365.29	-305.53-6.596e+05-2.538e+06-1.866e+06-1.332e+06-9.006e+05	
	429	38.99	-69.35-770.47	-536.56	-303.26	-330.58-8.610e+05-3.044e+06-2.427e+06-1.478e+06-9.831e+05	
364	1431	55.73	-314.28-1025.08-984.64	-354.72	-164.64-2.428e+06-4.259e+06-3.658e+06-3.029e+06-8.600e+05		
	404	45.84	-469.23-972.04	-920.70	-520.57	-152.25-2.038e+06-3.463e+06-2.756e+06-2.745e+06-7.127e+05	
	403	43.66	-292.43-969.33	-718.24	-543.52	-326.99-1.458e+06-3.408e+06-2.768e+06-2.097e+06-9.156e+05	
	430	53.03	-219.42-1009.25-790.06	-438.61	-353.67-1.792e+06-4.141e+06-3.608e+06-2.325e+06-9.836e+05		
364	2431	43.69	-245.95-824.54	-797.45	-273.04	-122.22-1.925e+06-3.329e+06-2.865e+06-2.389e+06-6.604e+05	
	404	35.93	-369.62-779.26	-745.18	-403.70	-113.12-1.614e+06-2.706e+06-2.154e+06-2.166e+06-5.460e+05	
	403	34.21	-236.41-774.38	-589.45	-421.35	-255.52-1.167e+06-2.664e+06-2.164e+06-1.668e+06-7.066e+05	
	430	41.57	-175.67-809.68	-647.77	-337.57	-276.47-1.435e+06-3.239e+06-2.826e+06-1.848e+06-7.577e+05	
365	1432	57.49	-405.11-1035.48-1029.33	-411.26	-61.98-2.911e+06-4.247e+06-4.007e+06-3.151e+06-5.137e+05		
	405	46.88	-569.74-966.09	-957.64	-578.20	-57.27-2.530e+06-3.355e+06-3.031e+06-2.854e+06-4.024e+05	
	404	45.43	-436.43-985.66	-828.91	-593.18	-248.03-2.052e+06-3.433e+06-3.039e+06-2.447e+06-6.239e+05	
	431	55.70	-337.70-1032.21-905.48	-464.43	-268.24-2.437e+06-4.248e+06-3.975e+06-2.710e+06-6.482e+05		
365	2432	45.08	-312.93-835.43	-831.82	-316.53	-43.26-2.297e+06-3.319e+06-3.133e+06-2.483e+06-3.941e+05	
	405	36.76	-443.17-778.46	-773.60	-448.02	-40.06-1.995e+06-2.621e+06-2.366e+06-2.250e+06-3.073e+05	
	404	35.62	-344.57-789.55	-674.58	-459.54	-194.79-1.625e+06-2.683e+06-2.372e+06-1.937e+06-4.821e+05	
	431	43.67	-263.53-830.46	-736.55	-357.43	-210.76-1.931e+06-3.320e+06-3.108e+06-2.144e+06-4.997e+05	
366	1433	58.15	-446.84-1037.35-1034.06	-450.14	43.98-3.124e+06-4.206e+06-4.186e+06-3.144e+06-1.455e+05		
	406	47.20	-606.45-962.15	-957.42	-611.18	40.75-2.829e+06-3.194e+06-3.178e+06-2.845e+06-7.487e+04	
	405	46.65	-547.71-977.95	-908.21	-617.46	-158.57-2.548e+06-3.328e+06-3.181e+06-2.696e+06-3.055e+05	
	432	57.47	-418.52-1038.30-986.55	-470.27	-171.45-2.918e+06-4.239e+06-4.174e+06-2.982e+06-2.850e+05		
366	2433	45.59	-343.46-838.44	-835.46	-346.44	38.25-2.462e+06-3.286e+06-3.270e+06-2.478e+06-1.108e+05	
	406	37.02	-469.29-777.54	-773.44	-473.39	35.34-2.230e+06-2.491e+06-2.479e+06-2.243e+06-5.535e+04	
	405	36.59	-426.83-786.97	-735.58	-478.22	-125.96-2.009e+06-2.600e+06-2.481e+06-2.128e+06-2.372e+05	
	432	45.07	-322.89-837.94	-798.92	-361.92	-136.30-2.303e+06-3.312e+06-3.261e+06-2.353e+06-2.204e+05	
367	1434	57.64	-430.62-1037.49-998.51	-469.61	148.78-2.964e+06-4.231e+06-4.189e+06-3.007e+06-2.289e+05		
	407	46.76	-564.75-973.32	-919.93	-618.14	137.71-2.606e+06-3.302e+06-3.190e+06-2.719e+06-2.560e+05	



406 47.19	-604.11-963.77 -952.50	-615.38	-62.66-2.832e+06-3.190e+06-3.188e+06-2.834e+06-2.548e+04
433 58.15	-447.96-1037.43-1029.56	-455.84	-67.69-3.125e+06-4.205e+06-4.197e+06-3.132e+06-9.001e+04
367 2434 45.20	-331.75-837.78 -808.12	-361.41	118.87-2.338e+06-3.306e+06-3.273e+06-2.372e+06-1.772e+05
407 36.68	-439.18-784.16 -744.60	-478.74	109.92-2.054e+06-2.580e+06-2.488e+06-2.146e+06-1.991e+05
406 37.01	-467.60-778.67 -769.65	-476.62	-52.19-2.233e+06-2.488e+06-2.487e+06-2.234e+06-1.735e+04
433 45.59	-344.28-838.54 -832.00	-350.82	-56.49-2.463e+06-3.285e+06-3.279e+06-2.469e+06-6.811e+04
368 1435 56.01	-360.13-1032.87-924.26	-468.74	247.53-2.512e+06-4.249e+06-4.015e+06-2.746e+06-5.931e+05
408 45.62	-462.29-983.23 -846.83	-598.70	229.02-2.128e+06-3.420e+06-3.068e+06-2.481e+06-5.755e+05
407 46.96	-583.57-963.24 -959.84	-586.97	35.75-2.588e+06-3.327e+06-3.061e+06-2.855e+06-3.548e+05
434 57.65	-419.26-1035.05-1032.60	-421.71	38.76-2.957e+06-4.239e+06-4.044e+06-3.152e+06-4.606e+05
368 2435 43.92	-280.14-831.61 -751.00	-360.75	194.83-1.990e+06-3.321e+06-3.139e+06-2.172e+06-4.573e+05
408 35.77	-363.79-788.37 -688.37	-463.79	180.17-1.684e+06-2.673e+06-2.394e+06-1.963e+06-4.449e+05
407 36.83	-453.05-777.01 -775.30	-454.77	23.51-2.040e+06-2.599e+06-2.389e+06-2.250e+06-2.707e+05
434 45.21	-323.31-835.60 -834.34	-324.57	25.39-2.333e+06-3.312e+06-3.162e+06-2.484e+06-3.532e+05
369 1436 53.45	-248.18-1013.87-814.44	-447.61	336.05-1.888e+06-4.159e+06-3.673e+06-2.374e+06-9.310e+05
409 43.89	-322.80-972.18 -741.21	-553.77	310.87-1.547e+06-3.412e+06-2.817e+06-2.142e+06-8.698e+05
408 46.00	-493.57-969.77 -929.77	-533.57	132.09-2.113e+06-3.450e+06-2.805e+06-2.758e+06-6.679e+05
435 56.04	-338.27-1026.52-995.43	-369.36	142.95-2.503e+06-4.260e+06-3.721e+06-3.042e+06-8.105e+05
369 2436 41.90	-197.20-813.82 -666.53	-344.49	262.92-1.509e+06-3.253e+06-2.876e+06-1.885e+06-7.173e+05
409 34.40	-259.30-777.06 -607.12	-429.23	243.12-1.236e+06-2.668e+06-2.201e+06-1.702e+06-6.713e+05
408 36.06	-387.56-778.31 -752.17	-413.69	97.62-1.672e+06-2.696e+06-2.192e+06-2.176e+06-5.115e+05
435 43.94	-263.75-826.30 -805.75	-284.30	105.55-1.983e+06-3.330e+06-2.913e+06-2.400e+06-6.223e+05
370 1437 50.24	-108.95-972.01 -673.88	-407.09	410.40-1.159e+06-3.925e+06-3.178e+06-1.906e+06-1.228e+06
410 42.06	-162.01-931.00 -607.70	-485.31	379.59-8.989e+05-3.266e+06-2.447e+06-1.718e+06-1.126e+06
409 44.41	-359.52-961.57 -863.60	-457.49	222.23-1.537e+06-3.443e+06-2.432e+06-2.548e+06-9.513e+05
436 53.48	-218.62-1002.09-919.63	-301.07	240.42-1.880e+06-4.171e+06-3.243e+06-2.808e+06-1.125e+06
370 2437 39.35	-93.10-778.62 -558.40	-313.32	320.11-9.473e+05-3.074e+06-2.496e+06-1.525e+06-9.459e+05
410 32.72	-137.69-743.31 -504.42	-376.57	295.99-7.368e+05-2.556e+06-1.917e+06-1.376e+06-8.685e+05
409 34.79	-287.76-768.68 -701.27	-355.17	166.95-1.228e+06-2.691e+06-1.905e+06-2.015e+06-7.295e+05
436 41.92	-174.86-804.36 -747.44	-231.77	180.52-1.503e+06-3.261e+06-2.545e+06-2.219e+06-8.639e+05
371 1411 43.08	8.87-857.30 -396.26	-452.17	-432.18-2.160e+05-2.986e+06-1.226e+06-1.976e+06-1.333e+06
410 42.38	-200.16-926.10 -362.03	-764.22	-302.17-8.955e+05-3.297e+06-2.235e+06-1.957e+06-1.193e+06
437 50.27	-74.28-954.03 -219.77	-808.54	-326.84-1.153e+06-3.936e+06-2.459e+06-2.630e+06-1.389e+06
438 49.93	45.28-902.92 -348.90	-508.75	-467.32-3.701e+05-3.545e+06-1.363e+06-2.552e+06-1.472e+06
371 2411 33.39	-7.81-685.05 -308.07	-384.79	-336.44-2.111e+05-2.341e+06-9.976e+05-1.555e+06-1.028e+06
410 33.16	-167.60-738.96 -281.74	-624.83	-228.44-7.343e+05-2.579e+06-1.773e+06-1.540e+06-9.151e+05
437 39.37	-66.74-764.48 -169.23	-661.99	-247.00-9.429e+05-3.081e+06-1.951e+06-2.074e+06-1.067e+06
438 38.74	22.92-722.86 -268.56	-431.38	-363.89-3.402e+05-2.781e+06-1.108e+06-2.014e+06-1.133e+06
372 1412 43.81	180.42-752.34 -290.65	-281.27	-466.35 4.712e+05-2.584e+06-6.882e+05-1.425e+06-1.483e+06
411 43.30	-28.08-859.28 -251.48	-635.87	-368.49-2.192e+05-3.015e+06-1.831e+06-1.403e+06-1.381e+06
438 50.18	82.77-878.75 -129.10	-666.89	-398.53-3.666e+05-3.553e+06-2.010e+06-1.910e+06-1.593e+06
439 49.87	204.05-805.90 -275.72	-326.13	-504.34 4.378e+05-3.028e+06-7.689e+05-1.821e+06-1.651e+06
372 2412 33.88	122.89-603.04 -226.83	-253.33	-362.73 3.179e+05-2.032e+06-5.838e+05-1.130e+06-1.143e+06
411 33.56	-37.02-685.78 -196.70	-526.09	-279.46-2.137e+05-2.363e+06-1.463e+06-1.114e+06-1.060e+06
438 38.93	51.52-704.03 -99.48	-553.03	-302.14-3.379e+05-2.787e+06-1.606e+06-1.520e+06-1.224e+06
439 38.59	142.75-645.93 -212.27	-290.90	-392.37 2.816e+05-2.384e+06-6.507e+05-1.452e+06-1.271e+06



373	1413	44.14	344.10-619.67	-173.01	-102.55	-480.59	1.133e+06-2.077e+06-1.279e+05-8.161e+051.567e+06
	412	43.96	146.66-761.49	-130.63	-484.20	-418.25	4.616e+05-2.609e+06-1.355e+06-7.927e+051.510e+06
	439	50.03	242.28-776.16	-32.98	-500.90	-452.29	4.384e+05-3.034e+06-1.482e+06-1.113e+061.726e+06
	440	49.70	358.22-682.98	-190.69	-134.07	-519.83	1.227e+06-2.395e+06-1.495e+05-1.019e+061.758e+06
373	2413	34.04	247.72-499.91	-136.34	-115.85	-373.68	8.270e+05-1.642e+06-1.529e+05-6.621e+051.208e+06
	412	33.98	96.00-609.16	-103.74	-409.42	-317.73	3.104e+05-2.051e+06-1.097e+06-6.441e+051.159e+06
	439	38.70	171.98-622.88	-25.54	-425.35	-343.50	2.816e+05-2.388e+06-1.200e+06-9.072e+051.327e+06
	440	38.34	259.28-549.31	-146.86	-143.17	-404.29	8.892e+05-1.898e+06-1.742e+05-8.343e+051.354e+06
374	1414	43.96	492.20-464.52	-48.49	76.17	-474.28	1.740e+06-1.486e+06 4.303e+05-1.771e+05 1.584e+06
	413	44.18	315.13-635.71	-4.75	-315.83	-449.26	1.117e+06-2.098e+06-8.275e+05-1.530e+051.572e+06
	440	49.74	395.27-648.73	64.39	-317.85	-485.76	1.225e+06-2.399e+06-8.980e+05-2.762e+051.785e+06
	441	49.39	499.79-538.29	-97.51	59.01	-513.11	1.963e+06-1.674e+06 4.683e+05-1.790e+05 1.789e+06
374	2414	33.81	360.67-379.60	-40.56	21.63	-368.83	1.294e+06-1.188e+06 2.765e+05-1.706e+05 1.221e+06
	413	34.06	224.45-511.26	-6.91	-279.91	-341.59	8.148e+05-1.658e+06-6.910e+05-1.521e+051.207e+06
	440	38.36	287.64-522.82	49.35	-284.53	-369.24	8.867e+05-1.900e+06-7.500e+05-2.632e+051.372e+06
	441	37.99	366.23-436.06	-75.19	5.35	-399.12	1.455e+06-1.343e+06 3.010e+05-1.884e+05 1.377e+06
375	1415	43.27	617.90-293.36	77.48	247.06	-447.67	2.266e+06-8.390e+05 9.623e+05 4.644e+05 1.532e+06
	414	43.89	469.27-486.76	120.64	-138.13	-460.18	1.719e+06-1.502e+06-2.715e+05 4.881e+05 1.565e+06
	441	49.30	533.96-500.90	158.77	-125.71	-497.49	1.957e+06-1.674e+06-2.827e+05 5.659e+05 1.765e+06
	442	48.96	621.86-377.46	-0.26	244.66	-484.42	2.613e+06-8.942e+05 1.057e+06 6.612e+05 1.742e+06
375	2415	33.20	456.41-246.98	56.34	153.09	-348.35	1.699e+06-6.904e+05 6.857e+05 3.228e+05 1.181e+06
	414	33.75	342.00-395.67	89.55	-143.22	-349.99	1.278e+06-1.200e+06-2.633e+05 3.410e+05 1.202e+06
	441	37.91	392.38-407.16	121.95	-136.74	-378.27	1.450e+06-1.343e+06-2.767e+05 3.845e+05 1.357e+06
	442	37.54	458.19-310.41	-0.38	148.16	-377.05	1.956e+06-7.435e+05 7.542e+05 4.579e+05 1.341e+06
376	1416	42.12	715.58-113.54	199.44	402.59	-401.92	2.688e+06-1.630e+05 1.445e+06 1.080e+06 1.414e+06
	415	43.09	601.94-320.74	240.10	41.10	-450.48	2.240e+06-8.487e+05 2.887e+05 1.103e+06 1.490e+06
	442	48.75	651.61-338.53	246.02	67.07	-486.92	2.604e+06-8.916e+05 3.367e+05 1.376e+06 1.669e+06
	443	48.42	718.92-207.45	96.78	414.69	-435.06	3.150e+06-9.210e+04 1.592e+06 1.465e+06 1.620e+06
376	2416	32.23	530.55-107.66	150.16	272.73	-313.16	2.024e+06-1.708e+05 1.057e+06 7.967e+05 1.090e+06
	415	33.05	443.08-266.99	181.44	-5.35	-342.53	1.679e+06-6.978e+05 1.676e+05 8.139e+05 1.144e+06
	442	37.36	480.94-280.32	189.07	11.55	-370.13	1.948e+06-7.410e+05 1.998e+05 1.008e+06 1.283e+06
	443	37.00	530.80-177.57	74.27	278.96	-339.08	2.369e+06-1.268e+05 1.166e+06 1.076e+06 1.247e+06
377	1417	40.67	780.9866.99	312.06	535.91	-339.00	2.990e+06 5.117e+05 1.857e+06 1.645e+06 1.235e+06
	416	41.86	707.12-144.73	348.40	213.99	-420.59	2.659e+06-1.664e+05 8.288e+05 1.664e+06 1.350e+06
	443	48.11	743.02-168.69	322.29	252.04	-454.50	3.139e+06-8.651e+04 9.333e+05 2.119e+06 1.500e+06
	444	47.81	787.08-36.08	189.38	561.62	-367.10	3.553e+06 6.955e+05 2.050e+06 2.199e+06 1.427e+06
377	2417	31.02	579.7032.37	236.79	375.28	-264.76	2.257e+06 3.478e+05 1.374e+06 1.231e+06 9.519e+05
	416	32.02	523.01-130.62	264.75	127.64	-319.54	2.002e+06-1.733e+05 5.831e+05 1.246e+06 1.036e+06
	443	36.75	549.17-147.58	247.74	153.84	-345.20	2.360e+06-1.220e+05 6.587e+05 1.579e+06 1.153e+06
	444	36.43	580.90-43.42	145.50	391.98	-286.80	2.680e+06 4.787e+05 1.518e+06 1.641e+06 1.099e+06
378	1417	40.36	780.1833.58	372.87	440.89	371.75	2.959e+06 5.147e+05 2.149e+06 1.325e+06-1.151e+06
	444	47.45	804.67 0.64	421.00	384.32	401.60	3.540e+06 7.036e+05 2.763e+06 1.481e+06-1.265e+06
	445	48.31	824.71127.63	678.85	273.49	283.55	3.811e+06 1.429e+06 2.830e+06 2.411e+06-1.173e+06
	418	40.28	811.68239.84	641.02	410.50	261.66	3.159e+06 1.155e+06 2.132e+06 2.181e+06-1.002e+06
378	2417	30.78	578.10 7.64	249.86	335.89	281.97	2.233e+06 3.501e+05 1.618e+06 9.649e+05-8.830e+05
	444	36.14	594.19-14.93	283.81	295.45	304.50	2.669e+06 4.853e+05 2.075e+06 1.080e+06-9.722e+05



445	36.42	606.9785.39	482.16	210.20	222.53	2.879e+06	1.043e+06	2.126e+06	1.795e+06	-9.031e+05	
418	30.39	601.79166.86	456.13	312.52	205.27	2.388e+06	8.417e+05	1.606e+06	1.624e+06	-7.730e+05	
379	1418	39.73	818.18206.03	510.83	513.39	306.07	3.128e+06	1.164e+06	2.535e+06	1.757e+06	-9.019e+05
445	48.24	835.45160.32	566.59	429.18	330.50	3.797e+06	1.439e+06	3.280e+06	1.957e+06	-9.760e+05	
446	50.62	833.61272.92	761.27	345.27	187.95	3.925e+06	2.065e+06	3.330e+06	2.660e+06	-8.674e+05	
419	41.60	807.86395.88	713.35	490.39	173.22	3.192e+06	1.735e+06	2.522e+06	2.405e+06	-7.264e+05	
379	2418	29.97	605.96141.69	355.98	391.66	231.45	2.364e+06	8.487e+05	1.915e+06	1.297e+06	-6.915e+05
445	36.37	614.85110.91	395.80	329.96	249.81	2.868e+06	1.051e+06	2.472e+06	1.446e+06	-7.496e+05	
446	38.13	609.98200.98	545.55	265.41	149.00	2.967e+06	1.531e+06	2.511e+06	1.987e+06	-6.684e+05	
419	31.34	596.43289.31	511.77	373.97	137.24	2.414e+06	1.287e+06	1.906e+06	1.795e+06	-5.610e+05	
380	1419	41.18	820.54363.98	621.69	562.84	226.38	3.162e+06	1.749e+06	2.806e+06	2.106e+06	-6.138e+05
446	50.57	838.01299.18	682.29	454.90	244.25	3.912e+06	2.076e+06	3.647e+06	2.340e+06	-6.445e+05	
447	52.19	822.03384.57	805.03	401.57	84.54	3.922e+06	2.544e+06	3.680e+06	2.787e+06	-5.250e+05	
420	42.47	775.96521.88	749.53	548.31	77.57	3.100e+06	2.215e+06	2.798e+06	2.517e+06	-4.195e+05	
380	2419	31.02	605.72265.24	441.26	429.70	170.14	2.391e+06	1.298e+06	2.124e+06	1.565e+06	-4.699e+05
446	38.09	612.77221.78	484.80	349.75	183.47	2.956e+06	1.540e+06	2.755e+06	1.741e+06	-4.947e+05	
447	39.30	596.01291.93	579.22	308.72	69.45	2.966e+06	1.899e+06	2.780e+06	2.085e+06	-4.049e+05	
420	31.97	566.91391.21	539.60	418.53	63.66	2.346e+06	1.654e+06	2.118e+06	1.882e+06	-3.250e+05	
381	1420	42.23	791.22496.33	700.48	587.07	136.11	3.075e+06	2.232e+06	2.950e+06	2.357e+06	-2.991e+05
447	52.17	822.25400.92	762.88	460.29	146.60	3.912e+06	2.553e+06	3.849e+06	2.615e+06	-2.854e+05	
448	52.81	809.38438.56	808.06	439.88	-22.10	3.886e+06	2.764e+06	3.862e+06	2.787e+06	-1.600e+05	
391	42.75	750.43579.17	747.82	581.79	-20.99	2.968e+06	2.495e+06	2.948e+06	2.515e+06	-9.476e+04	
381	2420	31.79	579.31370.90	501.87	448.34	100.71	2.326e+06	1.667e+06	2.235e+06	1.759e+06	-2.278e+05
447	39.28	595.40305.29	546.80	353.89	108.35	2.958e+06	1.905e+06	2.910e+06	1.953e+06	-2.184e+05	
448	39.76	582.20337.54	581.55	338.19	-12.58	2.938e+06	2.067e+06	2.920e+06	2.085e+06	-1.242e+05	
391	32.17	539.83442.73	538.29	444.27	-12.16	2.248e+06	1.865e+06	2.233e+06	1.880e+06	-7.514e+04	
382	1391	42.72	752.75575.94	743.52	585.17	39.32	2.963e+06	2.499e+06	2.962e+06	2.501e+06	2.848e+04
448	52.81	809.40440.28	804.58	445.09	41.89	3.885e+06	2.765e+06	3.878e+06	2.772e+06	8.575e+04	
449	52.39	815.50413.07	770.05	458.53	-127.38	3.907e+06	2.625e+06	3.870e+06	2.662e+06	2.122e+05	
392	42.40	781.13516.48	708.18	589.43	-118.26	3.049e+06	2.315e+06	2.964e+06	2.399e+06	2.343e+05	
382	2391	32.16	542.21439.65	534.98	446.88	26.25	2.245e+06	1.868e+06	2.244e+06	1.869e+06	2.414e+04
448	39.76	582.10338.98	578.88	342.20	27.80	2.938e+06	2.068e+06	2.932e+06	2.073e+06	6.708e+04	
449	39.45	589.29315.56	552.32	352.53	-93.57	2.954e+06	1.961e+06	2.927e+06	1.988e+06	1.621e+05	
392	31.91	570.60387.35	507.80	450.16	-86.98	2.307e+06	1.730e+06	2.246e+06	1.791e+06	1.780e+05	
383	1392	42.59	766.09540.03	748.90	557.21	-59.91	3.072e+06	2.298e+06	2.840e+06	2.531e+06	3.550e+05
449	52.41	816.01399.39	805.47	409.92	-65.41	3.915e+06	2.618e+06	3.731e+06	2.802e+06	4.531e+05	
450	50.98	829.93319.50	692.75	456.67	-226.28	3.923e+06	2.195e+06	3.703e+06	2.415e+06	5.759e+05	
393	41.47	813.48389.82	632.46	570.84	-209.58	3.158e+06	1.863e+06	2.847e+06	2.174e+06	5.538e+05	
383	2392	32.07	558.03406.46	539.12	425.37	-50.08	2.325e+06	1.717e+06	2.150e+06	1.892e+06	2.753e+05
449	39.46	590.44304.27	579.56	315.15	-54.73	2.961e+06	1.955e+06	2.819e+06	2.096e+06	3.496e+05	
450	38.39	605.84238.13	492.85	351.11	-169.64	2.965e+06	1.631e+06	2.798e+06	1.799e+06	4.419e+05	
393	31.23	600.07285.33	449.55	435.86	-157.22	2.389e+06	1.385e+06	2.156e+06	1.618e+06	4.237e+05	
384	1393	41.86	799.67421.19	716.31	504.55	-156.85	3.188e+06	1.847e+06	2.589e+06	2.447e+06	6.666e+05
450	51.02	826.96294.86	765.37	356.45	-170.23	3.936e+06	2.185e+06	3.414e+06	2.707e+06	8.010e+05	
421	48.78	829.73184.59	579.77	434.55	-314.29	3.838e+06	1.587e+06	3.367e+06	2.058e+06	9.161e+05	
394	40.11	816.32234.66	524.17	526.81	-290.83	3.154e+06	1.295e+06	2.600e+06	1.849e+06	8.503e+05	



384	2393	31.53	589.84309.07	514.05	384.86	-124.64	2.411e+06	1.373e+06	1.957e+06	1.827e+06	5.150e+05
450	38.43	604.21218.52	548.71	274.01	-135.36	2.976e+06	1.623e+06	2.576e+06	2.023e+06	6.172e+05	
421	36.76	610.07129.97	405.94	334.09	-237.34	2.899e+06	1.164e+06	2.539e+06	1.524e+06	7.036e+05	
394	30.25	604.57163.67	366.25	401.99	-219.72	2.384e+06	9.495e+05	1.966e+06	1.368e+06	6.518e+05	
385	1394	40.64	808.41268.45	647.34	429.52	-247.03	3.186e+06	1.284e+06	2.220e+06	2.250e+06	9.506e+05
421	48.84	820.57152.84	686.20	287.21	-267.71	3.853e+06	1.576e+06	2.941e+06	2.488e+06	1.115e+06	
422	47.49	802.9627.01	436.73	393.24	-387.37	3.614e+06	8.643e+05	2.876e+06	1.602e+06	1.219e+06	
395	40.21	783.8963.74	388.61	459.02	-358.35	3.016e+06	6.532e+05	2.235e+06	1.434e+06	1.111e+06	
385	2394	30.66	599.31188.84	461.00	327.14	-194.02	2.408e+06	9.414e+05	1.673e+06	1.677e+06	7.335e+05
421	36.82	603.44105.14	487.82	220.76	-210.35	2.911e+06	1.156e+06	2.211e+06	1.855e+06	8.591e+05	
422	36.15	592.69	5.54	295.91	302.31	-293.56	2.726e+06	6.089e+05	2.162e+06	1.173e+06	9.363e+05
395	30.64	581.1030.71	261.97	349.84	-271.66	2.277e+06	4.567e+05	1.685e+06	1.049e+06	8.525e+05	
386	1422	47.86	786.78-9.25	205.53	572.01	353.33	3.628e+06	8.551e+05	2.153e+06	2.331e+06	-1.384e+06
423	48.20	746.33-140.91	334.69	270.73	442.47	3.243e+06	7.280e+04	1.063e+06	2.253e+06	-1.469e+06	
396	41.79	716.36-113.89	370.17	232.31	409.37	2.742e+06	-3.090e+04	9.450e+05	1.767e+06	-1.324e+06	
395	40.53	783.2197.53	335.24	545.49	326.33	3.047e+06	6.485e+05	1.948e+06	1.748e+06	-1.195e+06	
386	2422	36.45	580.51-22.61	157.92	399.98	276.21	2.737e+06	6.014e+05	1.597e+06	1.742e+06	-1.066e+06
423	36.80	551.63-126.13	257.28	168.23	335.94	2.440e+06	502.39	7.588e+05	1.682e+06	-1.129e+06	
396	31.95	530.27-107.04	281.49	141.74	310.90	2.066e+06	-6.905e+04	6.725e+05	1.325e+06	-1.017e+06	
395	30.90	581.5655.72	254.63	382.65	255.01	2.301e+06	4.530e+05	1.444e+06	1.310e+06	-9.216e+05	
387	1423	48.54	723.39-179.62	114.87	428.90	423.32	3.256e+06	6.575e+04	1.711e+06	1.611e+06	-1.594e+06
424	48.91	660.95-310.00	261.44	89.51	477.81	2.731e+06	-7.453e+05	4.634e+05	1.523e+06	-1.656e+06	
397	43.13	616.66-290.30	263.90	62.46	442.15	2.343e+06	-7.254e+05	4.023e+05	1.215e+06	-1.479e+06	
396	42.08	723.41-82.01	225.36	416.04	391.26	2.773e+06	-2.938e+04	1.550e+06	1.193e+06	-1.390e+06	
387	2423	37.07	534.15-156.07	88.18	289.89	330.05	2.450e+06	-5353.22	1.257e+06	1.188e+06	-1.227e+06
424	37.46	488.06-258.30	200.93	28.83	363.12	2.046e+06	-6.285e+05	2.972e+05	1.121e+06	-1.272e+06	
397	33.06	454.53-243.69	199.75	11.09	336.12	1.758e+06	-6.029e+05	2.550e+05	9.003e+05	-1.136e+06	
396	32.18	536.74-83.56	170.10	283.07	304.96	2.089e+06	-6.799e+04	1.138e+06	8.835e+05	-1.071e+06	
388	1424	49.16	632.09-349.32	19.18	263.58	475.24	2.741e+06	-7.494e+05	1.179e+06	8.122e+05	-1.735e+06
425	49.51	550.05-472.81	176.83	-99.59	492.40	2.096e+06	-1.548e+06	-1.693e+05	7.178e+05	-1.767e+06	
398	44.03	489.37-458.11	145.19	-113.93	455.68	1.832e+06	-1.397e+06	-1.689e+05	6.046e+05	-1.567e+06	
397	43.33	631.42-262.01	104.46	264.95	439.45	2.369e+06	-7.173e+05	1.071e+06	5.808e+05	-1.524e+06	
388	2424	37.66	465.98-288.68	14.57	162.73	369.99	2.054e+06	-6.321e+05	8.480e+05	5.741e+05	-1.336e+06
425	38.04	404.67-385.46	135.84	-116.64	374.35	1.557e+06	-1.245e+06	-1.894e+05	5.015e+05	-1.358e+06	
398	33.85	357.51-373.67	108.43	-124.59	346.53	1.365e+06	-1.119e+06	-1.844e+05	4.307e+05	-1.203e+06	
397	33.23	466.94-222.99	77.10	166.85	342.03	1.779e+06	-5.969e+05	7.696e+05	4.124e+05	-1.174e+06	
389	1425	49.63	516.47-510.99	-77.46	82.94	507.43	2.102e+06	-1.548e+06	5.835e+05	-2.933e+04	-1.799e+06
426	49.96	418.02-622.79	84.52	-289.30	485.68	1.365e+06	-2.295e+06	-8.027e+05	-1.267e+05	-1.798e+06	
399	44.41	340.18-610.44	19.60	-289.85	449.42	1.234e+06	-2.013e+06	-7.405e+05	-3.828e+04	-1.585e+06	
398	44.12	511.38-434.87	-22.07	98.58	469.26	1.854e+06	-1.382e+06	5.345e+05	-6.235e+04	-1.591e+06	
389	2425	38.15	378.95-414.95	-59.76	23.77	394.75	1.563e+06	-1.246e+06	3.897e+05	-7.324e+04	-1.385e+06
426	38.51	304.98-502.71	64.84	-262.56	369.18	9.949e+05	-1.820e+06	-6.766e+05	-1.481e+05	-1.382e+06	
399	34.23	243.69-491.79	11.83	-259.92	341.72	9.048e+05	-1.593e+06	-6.241e+05	-6.380e+04	-1.217e+06	
398	33.93	375.48-356.83	-20.23	38.88	364.96	1.382e+06	-1.108e+06	3.567e+05	-8.231e+04	-1.226e+06	
390	1426	49.94	381.19-658.11	-170.91	-106.01	518.63	1.368e+06	-2.292e+06	-4.657e+04	-8.769e+05	-1.782e+06
427	50.24	270.44-754.03	-11.64	-471.95	457.61	5.733e+05	-2.952e+06	-1.406e+06	-9.732e+05	-1.750e+06	



400	44.25	175.67-740.99	-107.17	-458.16	423.40	5.760e+05-2.546e+06-1.285e+06-6.849e+05-1.532e+06	
399	44.38	368.53-593.34	-148.39	-76.43	479.59	1.251e+06-1.993e+06-3.398e+04-7.080e+05-1.586e+06	
390	2426	38.51	276.79-530.01	-131.65	-121.58	403.37	9.976e+05-1.818e+06-9.501e+04-7.252e+05-1.372e+06
427	38.85	193.42-605.62	-9.13	-403.07	347.59	3.855e+05-2.325e+06-1.141e+06-7.993e+05-1.345e+06	
400	34.20	118.20-593.28	-85.69	-389.38	321.70	3.984e+05-2.002e+06-1.043e+06-5.612e+05-1.176e+06	
399	34.22	266.49-479.63	-117.40	-95.75	372.90	9.177e+05-1.577e+06-8.059e+04-5.790e+05-1.222e+06	
391	1454	57.14	309.19-864.48	-226.45	-328.83	584.60	5.356e+05-3.445e+06-7.596e+05-2.150e+06-1.865e+06
455	58.39	252.18-936.28	24.74	-708.85	467.52	-3.931e+05-4.110e+06-2.128e+06-2.375e+06-1.854e+06	
428	50.40	87.67-886.75	-136.01	-663.07	409.78	-2.406e+05-3.499e+06-1.963e+06-1.776e+06-1.626e+06	
427	50.28	269.42-770.17	-229.15	-271.61	519.36	5.819e+05-2.946e+06-6.688e+05-1.695e+06-1.688e+06	
391	2454	44.25	225.32-692.90	-170.41	-297.17	454.72	3.459e+05-2.718e+06-6.477e+05-1.724e+06-1.434e+06
455	45.34	185.14-751.82	22.81	-589.49	354.61	-3.688e+05-3.229e+06-1.700e+06-1.898e+06-1.427e+06	
428	39.08	54.71-709.83	-104.85	-550.26	310.70	-2.408e+05-2.745e+06-1.569e+06-1.416e+06-1.250e+06	
427	38.89	192.85-618.48	-176.50	-249.13	404.04	3.927e+05-2.321e+06-5.737e+05-1.354e+06-1.299e+06	
392	1455	58.45	167.51-962.29	-262.97	-531.81	548.67	-4.117e+05-4.142e+06-1.428e+06-3.126e+06-1.660e+06
456	59.90	114.16-1025.09	-39.91	-871.02	389.60	-1.303e+06-4.664e+06-2.641e+06-3.326e+06-1.645e+06	
429	50.36	-68.09-962.12	-224.66	-805.55	339.80	-1.040e+06-3.901e+06-2.427e+06-2.514e+06-1.430e+06	
428	50.31	112.73-876.72	-307.74	-456.26	489.12	-2.364e+05-3.484e+06-1.278e+06-2.442e+06-1.516e+06	
392	2455	45.41	119.78-771.58	-198.50	-453.30	427.08	-3.824e+05-3.254e+06-1.162e+06-2.475e+06-1.277e+06
456	46.72	82.12-823.27	-26.92	-714.23	294.67	-1.068e+06-3.656e+06-2.095e+06-2.629e+06-1.266e+06	
429	39.14	-62.58-770.33	-173.05	-659.86	256.87	-8.561e+05-3.054e+06-1.926e+06-1.984e+06-1.099e+06	
428	39.02	74.44-702.57	-236.96	-391.17	380.77	-2.371e+05-2.734e+06-1.043e+06-1.929e+06-1.167e+06	
393	1457	64.74	-15.55-1088.81-1001.22	-103.14	-293.82	-2.121e+06-5.062e+06-4.140e+06-3.044e+06-1.365e+06	
430	53.16	-212.42-1009.92-918.40	-303.94	-254.18	-1.784e+06-4.153e+06-3.148e+06-2.789e+06-1.171e+06		
429	50.24	-44.03-955.97	-626.74	-373.26	-438.00	-1.039e+06-3.885e+06-3.088e+06-1.837e+06-1.278e+06	
456	60.21	31.20-1037.47	-717.88	-288.39	-489.29	-1.317e+06-4.693e+06-3.973e+06-2.038e+06-1.383e+06	
393	2457	50.79	-14.50-875.45	-814.39	-75.55	-220.99	-1.697e+06-3.963e+06-3.255e+06-2.405e+06-1.050e+06
430	41.66	-170.69-810.01	-746.67	-234.03	-191.00	-1.429e+06-3.248e+06-2.472e+06-2.205e+06-68.995e+05	
429	39.07	-43.74-765.93	-522.32	-287.35	-341.45	-8.550e+05-3.043e+06-2.426e+06-1.472e+06-9.844e+05	
456	47.21	18.50-832.99	-596.43	-218.06	-381.40	-1.078e+06-3.679e+06-3.127e+06-1.631e+06-1.064e+06	
394	1458	68.97	-126.91-1128.63-1093.40	-162.14	-184.52	-2.791e+06-5.309e+06-4.780e+06-3.320e+06-1.026e+06	
431	55.78	-333.39-1033.45-996.38	-370.46	-156.77	-2.428e+06-4.257e+06-3.650e+06-3.036e+06-68.613e+05		
430	52.89	-191.00-1007.30-775.33	-422.97	-368.17	-1.786e+06-4.138e+06-3.605e+06-2.319e+06-9.848e+05		
457	65.29	-89.63-1090.61	-878.57	-301.67	-409.00	-2.130e+06-5.088e+06-4.654e+06-2.563e+06-1.046e+06	
394	2458	54.10	-97.16-909.09	-885.30	-120.94	-136.91	-2.212e+06-4.153e+06-3.748e+06-2.617e+06-7.893e+05
431	43.73	-260.53-831.32	-806.65	-285.20	-116.07	-1.925e+06-3.327e+06-2.858e+06-2.394e+06-6.614e+05	
430	41.46	-154.04-808.17	-636.62	-325.59	-287.73	-1.430e+06-3.236e+06-2.823e+06-1.843e+06-7.587e+05	
457	51.21	-70.88-877.43	-720.04	-228.27	-319.64	-1.703e+06-3.983e+06-3.651e+06-2.035e+06-68.044e+05	
395	1459	71.80	-209.36-1148.16-1143.43	-214.09	-66.43	-3.249e+06-5.429e+06-5.220e+06-3.458e+06-6.423e+05	
432	57.49	-416.85-1040.31-1035.98	-421.18	-51.79	-2.912e+06-4.242e+06-3.999e+06-3.156e+06-5.146e+05		
431	55.58	-316.58-1033.42-895.42	-454.58	-282.63	-2.432e+06-4.244e+06-3.970e+06-2.706e+06-6.489e+05		
458	69.38	-184.14-1124.55-1006.74	-301.95	-311.30	-2.796e+06-5.329e+06-5.141e+06-2.983e+06-6.635e+05		
395	2459	56.31	-158.13-926.56	-923.79	-160.90	-46.08	-2.563e+06-4.247e+06-4.086e+06-2.724e+06-4.944e+05
432	45.07	-321.79-839.54	-837.12	-324.21	-35.32	-2.299e+06-3.314e+06-3.126e+06-2.487e+06-6.947e+05	
431	43.58	-247.60-831.31	-728.99	-349.91	-221.93	-1.928e+06-3.317e+06-3.104e+06-2.141e+06-5.003e+05	
458	54.41	-140.36-906.76	-818.64	-228.48	-244.49	-2.215e+06-4.169e+06-4.025e+06-2.358e+06-5.101e+05	



396	1460	72.93	-253.13-1152.41-1149.01	-256.52	55.19-3.426e+06-5.467e+06-5.440e+06-3.453e+062.315e+05
	433	58.10	-448.45-1040.72-1035.37	-453.81	56.05-3.126e+06-4.199e+06-4.179e+06-3.146e+061.459e+05
	432	57.38	-407.01-1041.25-981.62	-466.64	-185.11-2.917e+06-4.233e+06-4.168e+06-2.982e+062.852e+05
	459	72.02	-242.01-1143.65-1096.64	-289.02	-200.44-3.250e+06-5.441e+06-5.411e+06-3.280e+062.525e+05
396	2460	57.19	-190.49-931.14 -928.08	-193.54	47.48-2.699e+06-4.276e+06-4.256e+06-2.720e+061.784e+05
	433	45.56	-344.70-841.26 -836.65	-349.31	47.64-2.464e+06-3.280e+06-3.265e+06-2.479e+061.111e+05
	432	44.99	-314.31-840.17 -795.30	-359.18	-146.91-2.302e+06-3.308e+06-3.257e+06-2.353e+062.205e+05
	459	56.48	-182.60-923.73 -887.79	-218.54	-159.20-2.564e+06-4.256e+06-4.233e+06-2.586e+061.939e+05
397	1461	72.27	-251.72-1145.55-1109.76	-287.51	175.24-3.289e+06-5.449e+06-5.432e+06-3.305e+06-1.891e+05
	434	57.55	-421.01-1040.35-994.46	-466.90	162.22-2.963e+06-4.226e+06-4.183e+06-3.006e+06-2.291e+05
	433	58.09	-447.59-1040.98-1029.99	-458.59	-80.02-3.126e+06-4.198e+06-4.190e+06-3.134e+06-9.030e+04
	460	72.95	-255.87-1151.59-1144.13	-263.33	-81.44-3.426e+06-5.468e+06-5.454e+06-3.441e+06-1.692e+05
397	2461	56.67	-189.77-925.50 -897.89	-217.38	139.83-2.593e+06-4.262e+06-4.249e+06-2.606e+06-1.451e+05
	434	45.13	-324.59-839.97 -805.18	-359.38	129.31-2.338e+06-3.302e+06-3.268e+06-2.372e+06-1.773e+05
	433	45.55	-344.05-841.45 -832.51	-352.99	-66.08-2.464e+06-3.280e+06-3.274e+06-2.470e+06-6.832e+04
	460	57.20	-192.52-930.58 -924.32	-198.78	-67.67-2.699e+06-4.277e+06-4.266e+06-2.710e+06-1.305e+05
398	1462	69.88	-204.67-1128.33-1027.44	-305.56	288.11-2.866e+06-5.350e+06-5.195e+06-3.022e+06-6.010e+05
	435	55.89	-340.52-1034.31-915.05	-459.78	261.76-2.508e+06-4.245e+06-4.011e+06-2.743e+06-5.937e+05
	434	57.64	-429.39-1039.69-1038.38	-430.71	28.26-2.959e+06-4.234e+06-4.036e+06-3.157e+06-4.614e+05
	461	72.08	-224.06-1148.95-1147.15	-225.86	40.77-3.287e+06-5.439e+06-5.267e+06-3.459e+06-5.832e+05
398	2462	54.80	-155.60-910.23 -834.57	-231.26	226.65-2.269e+06-4.186e+06-4.067e+06-2.388e+06-4.619e+05
	435	43.82	-265.37-832.63 -744.10	-353.91	205.88-1.987e+06-3.318e+06-3.135e+06-2.169e+06-4.578e+05
	434	45.20	-330.96-839.55 -838.97	-331.54	17.21-2.335e+06-3.308e+06-3.155e+06-2.487e+06-3.538e+05
	461	56.53	-169.04-927.56 -926.65	-169.95	26.34-2.592e+06-4.254e+06-4.122e+06-2.724e+06-4.490e+05
399	1463	65.98	-117.74-1097.67-905.54	-309.87	389.05-2.228e+06-5.128e+06-4.741e+06-2.615e+06-9.861e+05
	436	53.31	-220.90-1012.41-800.51	-432.80	350.46-1.882e+06-4.156e+06-3.670e+06-2.368e+06-9.322e+05
	435	56.08	-356.29-1034.25-1006.32	-384.22	134.73-2.504e+06-4.258e+06-3.713e+06-3.049e+06-8.118e+05
	462	69.50	-151.18-1132.44-1105.42	-178.19	160.55-2.862e+06-5.332e+06-4.860e+06-3.335e+06-9.712e+05
399	2463	51.75	-91.88-883.49 -740.80	-234.58	304.30-1.778e+06-4.014e+06-3.718e+06-2.075e+06-7.582e+05
	436	41.79	-176.47-812.67 -655.99	-333.16	274.11-1.504e+06-3.250e+06-2.874e+06-1.881e+06-7.182e+05
	435	43.97	-277.48-832.61 -814.31	-295.78	99.12-1.984e+06-3.327e+06-2.906e+06-2.405e+06-6.233e+05
	462	54.51	-115.27-912.57 -894.55	-133.28	118.47-2.266e+06-4.171e+06-3.809e+06-2.628e+06-7.474e+05
400	1464	60.98	-0.66-1048.95 -749.39	-300.21	473.59-1.437e+06-4.755e+06-4.090e+06-2.102e+06-1.328e+06
	437	50.10	-76.33-966.61 -655.85	-387.10	424.37-1.151e+06-3.923e+06-3.177e+06-1.898e+06-1.230e+06
	436	53.56	-241.63-1014.68-935.17	-321.14	234.82-1.880e+06-4.171e+06-3.234e+06-2.817e+06-1.126e+06
	463	65.45	-46.03-1097.07-1020.75	-122.34	272.74-2.219e+06-5.103e+06-4.250e+06-3.073e+06-1.317e+06
400	2464	47.83	-5.44-842.39 -620.68	-227.15	369.33-1.171e+06-3.726e+06-3.217e+06-1.680e+06-1.021e+06
	437	39.24	-68.15-774.56 -544.71	-298.00	330.97-9.415e+05-3.072e+06-2.494e+06-1.519e+06-9.471e+05
	436	41.98	-192.56-814.27 -759.58	-247.26	176.11-1.503e+06-3.261e+06-2.538e+06-2.226e+06-8.652e+05
	463	51.34	-37.38-882.37 -829.42	-90.32	204.77-1.772e+06-3.995e+06-3.340e+06-2.427e+06-1.013e+06
401	1438	50.11	81.10-893.15 -324.60	-487.45	-480.27-3.617e+05-3.543e+06-1.353e+06-2.552e+061.474e+06
	437	50.39	-99.92-972.31 -244.16	-828.07	-324.08-1.152e+06-3.938e+06-2.469e+06-2.621e+061.391e+06
	464	60.37	81.10-1038.64 -60.67	-896.87	-372.35-1.424e+06-4.726e+06-2.686e+06-3.463e+061.604e+06
	465	58.49	135.66-978.47 -276.91	-565.90	-538.00-5.513e+05-4.225e+06-1.507e+06-3.269e+061.612e+06
401	2438	38.88	50.43-715.53 -249.92	-415.18	-373.96-3.337e+05-2.780e+06-1.100e+06-2.013e+061.135e+06
	437	39.45	-86.60-778.63 -188.05	-677.19	-244.77-9.424e+05-3.083e+06-1.959e+06-2.067e+061.069e+06



464	47.35	57.18-834.20	-42.89	-734.13	-281.40-1.161e+06-3.703e+06-2.130e+06-2.735e+06-1.234e+06			
465	45.46	95.76-784.51	-209.22	-479.54	-418.87-4.897e+05-3.319e+06-1.223e+06-2.586e+06-1.239e+06			
402	1439	50.06	241.09-791.78	-248.20	-302.49	-515.72	4.466e+05-3.027e+06-7.578e+05-1.823e+06-1.653e+06	
438	50.20	56.36-902.68	-156.76	-689.56	-398.71-3.657e+05-3.558e+06-2.022e+06-1.901e+06-1.595e+06			
465	58.42	220.05-955.09	4.01	-739.05	-455.20-5.336e+05-4.193e+06-2.191e+06-2.536e+06-1.822e+06			
466	57.08	280.70-884.74	-241.16	-362.88	-579.53	3.801e+05-3.551e+06-8.545e+05-2.316e+06-1.825e+06		
402	2439	38.73	171.28-635.34	-191.15	-272.90	-401.23	2.884e+05-2.383e+06-6.422e+05-1.453e+06-1.273e+06	
438	38.94	30.96-722.42	-120.82	-570.65	-302.18-3.371e+05-2.791e+06-1.615e+06-1.513e+06-1.226e+06			
465	45.38	160.85-766.70	6.87	-612.73	-345.12-4.769e+05-3.293e+06-1.749e+06-2.022e+06-1.402e+06			
466	44.23	203.80-708.89	-181.72	-323.37	-450.82	2.263e+05-2.800e+06-7.208e+05-1.853e+06-1.403e+06		
403	1440	49.88	394.64-664.95	-161.15	-109.16	-529.16	1.236e+06-2.395e+06-1.374e+05-1.022e+06-1.761e+06	
439	50.11	216.63-805.09	-62.71	-525.75	-455.39	4.393e+05-3.040e+06-1.495e+06-1.106e+06-1.729e+06		
466	57.01	361.47-846.75	68.96	-554.24	-517.55	4.019e+05-3.518e+06-1.608e+06-1.508e+06-1.960e+06		
467	56.01	424.88-768.62	-194.44	-149.31	-596.32	1.311e+06-2.756e+06-1.737e+05-1.272e+06-1.958e+06		
403	2440	38.48	287.38-535.76	-124.19	-124.18	-411.57	8.959e+05-1.897e+06-1.649e+05-8.364e+05-1.356e+06	
439	38.76	151.94-645.05	-48.47	-444.64	-345.77	2.825e+05-2.393e+06-1.209e+06-9.013e+05-1.329e+06		
466	44.15	266.48-680.21	56.83	-470.57	-393.09	2.423e+05-2.774e+06-1.300e+06-1.231e+06-1.508e+06		
467	43.24	311.35-616.21	-145.78	-159.08	-463.73	9.417e+05-2.188e+06-1.970e+05-1.049e+06-1.506e+06		
404	1441	49.54	533.91-517.05	-67.29	84.15	-520.00	1.971e+06-1.674e+06-4.809e+05-1.837e+05-1.792e+06	
440	49.87	371.67-681.61	33.83	-343.76	-491.63	1.226e+06-2.406e+06-9.104e+05-2.700e+05-1.787e+06		
467	55.94	496.98-716.18	131.24	-350.45	-556.72	1.335e+06-2.724e+06-9.642e+05-4.248e+05-2.012e+06		
468	55.42	559.73-633.09	-138.86	65.50	-587.59	2.197e+06-1.873e+06-5.061e+05-1.828e+05-2.006e+06		
404	2441	38.10	392.59-420.06	-51.99	24.51	-404.52	1.462e+06-1.342e+06-3.107e+05-1.917e+05-1.379e+06	
440	38.46	269.13-547.99	25.79	-304.65	-373.66	8.876e+05-1.905e+06-7.595e+05-2.581e+05-1.374e+06		
467	43.17	367.60-576.67	104.74	-313.81	-423.22	9.601e+05-2.163e+06-8.051e+05-3.976e+05-1.548e+06		
468	42.62	411.83-508.70	-103.03	6.16	-457.02	1.623e+06-1.509e+06-3.259e+05-2.114e+05-1.543e+06		
405	1442	49.06	652.16-353.93	29.45	268.78	-488.60	2.620e+06-8.943e+05-1.070e+06-6.557e+05-1.745e+06	
441	49.48	513.48-536.37	128.83	-151.72	-505.83	1.958e+06-1.682e+06-2.950e+05-5.710e+05-1.768e+06		
468	55.36	619.39-567.73	188.47	-136.81	-570.84	2.224e+06-1.843e+06-2.874e+06-6.679e+05-1.977e+06		
469	55.36	678.32-482.94	-76.59	271.97	-553.86	3.000e+06-9.402e+05-1.155e+06-9.054e+05-1.966e+06		
405	2442	37.61	481.62-292.66	22.42	166.53	-380.37	1.961e+06-7.433e+05-7.636e+05-4.539e+05-1.343e+06	
441	38.04	376.26-434.31	98.87	-156.92	-384.58	1.451e+06-1.349e+06-2.861e+05-3.888e+05-1.359e+06		
468	42.55	458.63-459.33	148.77	-149.47	-434.09	1.643e+06-1.485e+06-2.845e+05-4.430e+05-1.521e+06		
469	42.40	499.82-389.97	-55.13	164.98	-431.07	2.241e+06-7.903e+05-8.248e+05-6.257e+05-1.512e+06		
406	1443	48.46	744.14-182.74	124.56	436.85	-436.34	3.155e+06-9.211e+04-1.604e+06-1.459e+06-1.622e+06	
442	48.94	635.11-375.03	217.87	42.22	-497.38	2.605e+06-8.997e+05-3.255e+05-1.379e+06-1.671e+06		
469	55.31	722.86-407.59	237.65	77.62	-559.53	3.028e+06-9.133e+05-3.936e+05-1.721e+06-1.856e+06		
470	55.77	774.89-324.45	-10.85	461.30	-496.39	3.688e+06	367.44	1.745e+06-1.944e+06-1.841e+06
406	2443	37.03	550.30-158.90	95.58	295.82	-340.18	2.373e+06-1.266e+05-1.175e+06-1.072e+06-1.249e+06	
442	37.51	467.89-308.27	167.36	-7.74	-378.08	1.949e+06-7.472e+05-1.911e+05-1.011e+06-1.284e+06		
469	42.33	534.94-332.87	186.60	15.48	-425.39	2.261e+06-7.687e+05-2.393e+05-1.253e+06-1.428e+06		
470	42.55	570.76-264.71	-4.56	310.61	-386.87	2.770e+06-6.629e+04-1.279e+06-1.425e+06-1.416e+06		
407	1444	47.79	806.31-11.47	214.05	580.80	-365.46	3.557e+06-6.957e+05-2.061e+06-2.192e+06-1.429e+06	
443	48.30	731.10-204.56	297.19	229.35	-466.60	3.139e+06-9.444e+04-9.234e+05-2.121e+06-1.502e+06		
470	55.73	803.16-243.02	276.88	283.25	-523.08	3.716e+06-2.316e+04-1.048e+06-2.690e+06-1.654e+06		
471	56.50	845.85-165.17	55.73	624.95	-417.78	4.236e+06-9.023e+05-2.250e+06-2.888e+06-1.636e+06		





407 2444 36.42	595.74-24.76	164.42	406.55	-285.65	2.683e+06	4.790e+05	1.526e+06	1.635e+06	1.100e+06
443 36.90	539.68-175.09	228.38	136.21	-354.40	2.360e+06	-1.281e+05	6.511e+05	1.581e+06	1.154e+06
470 42.50	593.15-202.72	216.77	173.66	-397.35	2.790e+06	-4.797e+04	7.431e+05	1.999e+06	1.272e+06
471 42.97	621.75-138.59	46.65	436.50	-326.39	3.191e+06	6.280e+05	1.668e+06	2.151e+06	1.258e+06
408 1444 47.62	797.62-32.86	401.41	363.35	414.80	3.540e+06	6.965e+05	2.763e+06	1.473e+06	-1.267e+06
471 56.47	858.24-82.85	470.99	304.39	463.11	4.262e+06	9.202e+05	3.533e+06	1.649e+06	-1.380e+06
472 58.76	889.89-14.14	755.63	120.12	321.48	4.631e+06	1.716e+06	3.698e+06	2.649e+06	-1.360e+06
445 48.40	837.50150.68	694.19	293.98	279.08	3.813e+06	1.430e+06	2.822e+06	2.420e+06	-1.174e+06
408 2444 36.27	588.52-40.68	268.57	279.27	314.56	2.669e+06	4.799e+05	2.075e+06	1.074e+06	-9.733e+05
471 42.93	631.50-75.49	318.07	237.93	351.21	3.209e+06	6.425e+05	2.647e+06	1.205e+06	-1.062e+06
472 44.24	651.64-18.43	537.03	96.18	252.31	3.494e+06	1.255e+06	2.774e+06	1.975e+06	-1.046e+06
445 36.50	616.73102.96	493.78	225.91	219.20	2.880e+06	1.043e+06	2.121e+06	1.802e+06	-9.044e+05
409 1445 48.12	833.13131.05	550.95	413.23	344.22	3.796e+06	1.433e+06	3.279e+06	1.951e+06	-9.772e+05
472 59.26	888.9162.48	632.71	318.68	382.22	4.653e+06	1.729e+06	4.212e+06	2.170e+06	-1.047e+06
473 62.62	908.99117.85	847.67	179.17	211.55	4.876e+06	2.387e+06	4.337e+06	2.926e+06	-1.025e+06
446 50.68	840.30292.48	772.09	360.69	180.86	3.924e+06	2.066e+06	3.323e+06	2.667e+06	-8.688e+05
409 2445 36.27	612.9688.27	383.59	317.64	260.26	2.867e+06	1.046e+06	2.472e+06	1.441e+06	-7.505e+05
472 44.62	650.4640.93	442.47	248.92	288.99	3.510e+06	1.265e+06	3.169e+06	1.606e+06	-8.054e+05
473 47.14	661.9187.52	607.83	141.61	167.76	3.681e+06	1.772e+06	3.266e+06	2.187e+06	-7.881e+05
446 38.18	614.83216.10	553.70	277.22	143.65	2.966e+06	1.532e+06	2.506e+06	1.992e+06	-6.695e+05
410 1446 50.46	839.63276.28	671.25	444.66	257.89	3.909e+06	2.072e+06	3.644e+06	2.337e+06	-6.452e+05
473 63.00	899.90180.26	761.16	319.01	283.89	4.893e+06	2.395e+06	4.699e+06	2.588e+06	-6.681e+05
474 65.26	909.46217.52	896.77	230.21	92.85	4.995e+06	2.852e+06	4.779e+06	3.069e+06	-6.456e+05
447 52.21	824.51397.59	810.85	411.25	75.13	3.919e+06	2.546e+06	3.673e+06	2.792e+06	-5.259e+05
410 2446 38.00	614.13203.82	476.13	341.82	193.85	2.955e+06	1.537e+06	2.753e+06	1.738e+06	-4.952e+05
473 47.43	653.78136.67	541.28	249.17	213.35	3.694e+06	1.778e+06	3.544e+06	1.928e+06	-5.143e+05
474 49.13	657.85168.62	645.60	180.87	76.44	3.772e+06	2.130e+06	3.605e+06	2.297e+06	-4.963e+05
447 39.31	597.33302.30	583.52	316.11	62.32	2.963e+06	1.900e+06	2.775e+06	2.088e+06	-4.057e+05
411 1447 52.08	825.77387.31	756.89	456.19	159.55	3.908e+06	2.552e+06	3.845e+06	2.615e+06	-2.856e+05
474 65.47	900.47255.23	850.54	305.17	172.41	5.005e+06	2.856e+06	4.973e+06	2.888e+06	-2.613e+05
475 66.36	901.97269.44	900.60	270.81	-29.37	5.033e+06	3.043e+06	5.004e+06	3.072e+06	-2.384e+05
448 52.78	811.62440.37	808.59	443.40	-33.40	3.880e+06	2.766e+06	3.857e+06	2.789e+06	-1.605e+05
411 2447 39.22	598.41294.28	542.01	350.68	118.21	2.955e+06	1.904e+06	2.908e+06	1.952e+06	-2.186e+05
474 49.29	649.64198.92	610.04	238.53	127.60	3.779e+06	2.133e+06	3.754e+06	2.158e+06	-2.013e+05
475 49.96	649.25211.39	648.54	212.10	-17.58	3.801e+06	2.277e+06	3.778e+06	2.300e+06	-1.830e+05
448 39.74	583.63339.00	581.78	340.85	-21.18	2.935e+06	2.068e+06	2.916e+06	2.087e+06	-1.246e+05
412 1448 52.77	811.76439.42	803.88	447.30	53.59	3.879e+06	2.767e+06	3.873e+06	2.773e+06	8.602e+04
475 66.38	901.13273.14	896.67	277.60	52.75	5.034e+06	3.043e+06	5.021e+06	3.056e+06	1.562e+05
476 65.79	896.38261.45	858.75	299.07	-149.91	5.017e+06	2.922e+06	5.002e+06	2.938e+06	1.794e+05
449 52.31	819.23401.74	765.24	455.73	-140.09	3.902e+06	2.625e+06	3.866e+06	2.661e+06	2.122e+05
412 2448 39.73	583.77338.23	578.16	343.84	36.70	2.934e+06	2.069e+06	2.929e+06	2.074e+06	6.730e+04
475 49.98	648.45214.39	645.52	217.32	35.55	3.801e+06	2.278e+06	3.792e+06	2.287e+06	1.198e+05
476 49.53	645.88204.32	616.36	233.84	-110.29	3.789e+06	2.184e+06	3.777e+06	2.196e+06	1.383e+05
449 39.39	592.46306.31	548.44	350.33	-103.24	2.951e+06	1.961e+06	2.923e+06	1.988e+06	1.621e+05
413 1449 52.41	817.78410.63	810.07	418.34	-55.47	3.911e+06	2.620e+06	3.725e+06	2.807e+06	4.538e+05
476 65.61	904.74229.99	897.39	237.34	-70.04	5.009e+06	2.919e+06	4.843e+06	3.086e+06	5.664e+05



477 63.61	892.66194.22	773.10	313.79	-263.09	4.927e+06	2.516e+06	4.773e+06	2.671e+06	5.904e+05
450 50.87	832.33298.12	682.77	447.69	-239.85	3.920e+06	2.192e+06	3.700e+06	2.413e+06	5.764e+05
413 2449 39.47	591.19313.31	582.92	321.57	-47.20	2.958e+06	1.957e+06	2.815e+06	2.100e+06	3.502e+05
476 49.40	653.51178.92	646.08	186.35	-58.90	3.783e+06	2.182e+06	3.654e+06	2.311e+06	4.353e+05
477 47.88	647.31148.31	550.47	245.16	-197.35	3.720e+06	1.872e+06	3.601e+06	1.991e+06	4.545e+05
450 38.31	607.84221.30	485.00	344.14	-179.98	2.963e+06	1.629e+06	2.796e+06	1.797e+06	4.423e+05
414 1450 51.07	832.28313.52	775.07	370.74	-162.50	3.934e+06	2.186e+06	3.407e+06	2.713e+06	8.022e+05
477 63.25	902.96135.75	852.47	186.25	-190.25	4.912e+06	2.510e+06	4.443e+06	2.978e+06	9.517e+05
478 60.08	881.2081.07	647.57	314.69	-363.80	4.718e+06	1.890e+06	4.326e+06	2.282e+06	9.776e+05
421 48.66	828.45156.30	565.01	419.74	-328.13	3.837e+06	1.581e+06	3.365e+06	2.053e+06	9.172e+05
414 2450 38.47	607.94233.01	556.00	284.95	-129.52	2.974e+06	1.624e+06	2.571e+06	2.028e+06	6.182e+05
477 47.61	656.50102.08	611.52	147.05	-151.37	3.709e+06	1.866e+06	3.347e+06	2.228e+06	7.318e+05
478 45.23	643.7356.03	453.91	245.85	-274.82	3.560e+06	1.389e+06	3.257e+06	1.692e+06	7.524e+05
421 36.67	609.00108.06	394.41	322.65	-247.89	2.898e+06	1.160e+06	2.538e+06	1.520e+06	7.044e+05
415 1453 56.20	447.36-745.65	-180.46	-117.83	595.69	1.477e+06	-2.628e+06	-6.219e+04	-1.089e+06	-1.987e+06
454 57.07	389.44-823.59	87.78	-521.93	524.33	5.584e+05	-3.412e+06	-1.526e+06	-1.328e+06	-1.983e+06
427 50.33	244.78-783.97	-41.90	-497.30	461.23	5.745e+05	-2.959e+06	-1.418e+06	-9.659e+05	-1.752e+06
426 50.11	417.61-639.37	-140.95	-80.82	527.63	1.377e+06	-2.291e+06	-3.424e+04	-8.803e+05	-1.785e+06
415 2453 43.36	328.30-598.19	-135.03	-134.86	463.25	1.070e+06	-2.089e+06	-1.112e+05	-9.081e+05	-1.528e+06
454 44.18	287.64-662.04	71.31	-445.70	398.31	3.627e+05	-2.692e+06	-1.237e+06	-1.092e+06	-1.526e+06
427 38.92	173.36-628.56	-32.46	-422.74	350.27	3.865e+05	-2.330e+06	-1.150e+06	-7.934e+05	-1.347e+06
426 38.64	304.89-515.92	-108.66	-102.37	410.40	1.004e+06	-1.817e+06	-8.553e+04	-7.276e+05	-1.374e+06
416 1452 55.74	574.73-609.13	-126.67	92.27	581.72	2.366e+06	-1.722e+06	6.328e+05	1.086e+04	-2.020e+06
453 56.13	518.21-690.29	146.55	-318.63	557.69	1.503e+06	-2.596e+06	-8.608e+05	-2.319e+05	-2.025e+06
426 50.10	394.63-656.52	53.70	-315.59	492.08	1.366e+06	-2.302e+06	-8.153e+05	-1.205e+05	-1.801e+06
425 49.77	550.23-489.09	-46.93	108.07	513.85	2.110e+06	-1.548e+06	5.962e+05	-3.403e+04	-1.802e+06
416 2452 42.83	423.04-489.94	-93.65	26.75	452.50	1.753e+06	-1.392e+06	4.234e+05	-6.239e+04	-1.554e+06
453 43.29	383.62-556.43	116.52	-289.32	423.97	1.089e+06	-2.064e+06	-7.256e+05	-2.492e+05	-1.558e+06
426 38.62	286.64-528.53	41.07	-282.97	374.00	9.958e+05	-1.825e+06	-6.863e+05	-1.431e+05	-1.384e+06
425 38.26	405.05-398.45	-36.34	42.93	399.79	1.569e+06	-1.246e+06	3.994e+05	-7.656e+04	-1.387e+06
417 1451 55.74	685.70-459.41	-66.79	293.08	543.55	3.159e+06	-7.683e+05	1.291e+06	1.100e+06	-1.961e+06
452 55.67	632.38-541.17	198.89	-107.68	566.40	2.393e+06	-1.692e+06	-1.625e+05	8.641e+05	-1.977e+06
425 49.70	530.05-508.92	146.82	-125.69	501.29	2.097e+06	-1.556e+06	-1.815e+05	7.227e+05	-1.769e+06
424 49.24	661.66-325.26	48.89	287.51	478.82	2.748e+06	-7.494e+05	1.192e+06	8.064e+05	-1.738e+06
417 2451 42.66	505.15-371.51	-47.59	181.23	423.14	2.363e+06	-6.579e+05	9.298e+05	7.753e+05	-1.508e+06
452 42.76	468.30-438.58	156.77	-127.05	430.66	1.773e+06	-1.368e+06	-1.884e+05	5.940e+05	-1.521e+06
425 38.19	388.91-413.09	112.71	-136.89	381.09	1.558e+06	-1.251e+06	-1.988e+05	5.055e+05	-1.360e+06
424 37.73	488.86-270.53	37.38	180.96	372.85	2.059e+06	-6.319e+05	8.576e+05	5.699e+05	-1.338e+06
418 1480 56.14	776.16-301.96	-2.79	476.99	482.75	3.823e+06	1.856e+05	1.878e+06	2.131e+06	-1.814e+06
451 55.68	727.67-382.04	243.19	102.44	550.37	3.187e+06	-7.408e+05	5.348e+05	1.911e+06	-1.839e+06
424 49.11	645.20-346.83	233.61	64.75	488.78	2.732e+06	-7.536e+05	4.522e+05	1.526e+06	-1.658e+06
423 48.57	747.52-154.58	142.40	450.54	423.92	3.261e+06	6.577e+04	1.722e+06	1.604e+06	-1.596e+06
418 2480 42.80	571.34-247.00	1.64	322.69	376.37	2.873e+06	7.629e+04	1.381e+06	1.568e+06	-1.395e+06
451 42.58	538.29-312.86	190.85	34.58	418.34	2.383e+06	-6.360e+05	3.480e+05	1.399e+06	-1.415e+06
424 37.61	475.58-286.51	179.47	9.60	371.46	2.047e+06	-6.347e+05	2.886e+05	1.123e+06	-1.274e+06
423 37.10	552.82-137.15	109.31	306.36	330.62	2.454e+06	-5170.79	1.266e+06	1.184e+06	-1.229e+06



419	1479	56.82	843.02-143.66	62.86	636.50	401.40	4.338e+06	1.086e+06	2.366e+06	3.058e+06	-1.589e+06	
	480	56.08	801.46-219.49	278.15	303.82	510.32	3.850e+06	2.086e+05	1.195e+06	2.864e+06	-1.618e+06	
	423	48.39	735.38-176.71	310.27	248.39	454.99	3.243e+06	6.494e+04	1.054e+06	2.254e+06	-1.471e+06	
	422	47.83	804.6415.39	229.61	590.42	350.98	3.631e+06	8.554e+05	2.163e+06	2.324e+06	-1.386e+06	
419	2479	43.19	619.07-121.54	52.13	445.39	313.79	3.269e+06	7.693e+05	1.756e+06	2.281e+06	-1.222e+06	
	480	42.74	591.40-184.17	217.74	189.49	387.52	2.893e+06	9.479e+04	8.555e+05	2.132e+06	-1.245e+06	
	423	36.95	542.88-153.58	238.44	150.86	345.47	2.441e+06	-5453.86	7.514e+05	1.684e+06	-1.131e+06	
	422	36.43	594.27-3.92	176.39	413.96	274.50	2.740e+06	6.018e+05	1.605e+06	1.737e+06	-1.067e+06	
420	1421	48.94	831.85175.52	700.57	306.80	-262.54	3.853e+06	1.577e+06	2.934e+06	2.497e+06	1.117e+06	
	478	59.59	884.69	6.27	764.00	126.96	-302.41	4.698e+06	1.879e+06	3.840e+06	2.736e+06	1.297e+06
	479	56.79	852.40-61.55	488.46	302.39	-447.40	4.362e+06	1.103e+06	3.680e+06	1.785e+06	1.326e+06	
	422	47.65	796.98-5.98	417.79	373.21	-400.86	3.614e+06	8.573e+05	2.876e+06	1.595e+06	1.220e+06	
420	2421	36.89	612.01122.46	498.69	235.77	-206.48	2.911e+06	1.156e+06	2.206e+06	1.861e+06	8.604e+05	
	478	44.86	646.99-2.08	543.47	101.45	-237.65	3.545e+06	1.380e+06	2.883e+06	2.041e+06	9.973e+05	
	479	43.15	626.41-58.50	331.52	236.39	-339.13	3.286e+06	7.833e+05	2.760e+06	1.310e+06	1.020e+06	
	422	36.28	587.86-19.83	281.17	286.86	-303.83	2.726e+06	6.036e+05	2.162e+06	1.168e+06	9.374e+05	
421	1485	59.05	314.60-987.50	-316.03	-356.87	650.73	4.844e+05	-4.114e+06	-9.530e+05	-2.677e+06	-2.132e+06	
	486	61.52	207.27-1075.13	-75.86	-792.00	531.91	-6.533e+05	-4.997e+06	-2.593e+06	-3.057e+06	-2.159e+06	
	455	53.12	16.10-1037.28	-279.78	-741.40	473.42	-4.876e+05	-4.279e+06	-2.439e+06	-2.328e+06	-1.895e+06	
	454	51.87	283.80-894.78	-312.41	-298.57	589.25	5.505e+05	-3.512e+06	-8.370e+05	-2.125e+06	-1.927e+06	
421	2485	45.78	223.59-790.80	-243.84	-323.37	505.63	2.898e+05	-3.251e+06	-8.101e+05	-2.151e+06	-1.639e+06	
	486	47.84	144.39-861.58	-59.09	-658.09	404.10	-5.850e+05	-3.930e+06	-2.071e+06	-2.444e+06	-1.662e+06	
	455	41.25	-7.53-827.59	-220.35	-614.78	359.49	-4.456e+05	-3.361e+06	-1.949e+06	-1.858e+06	-1.457e+06	
	454	40.15	198.38-717.98	-245.45	-274.14	457.96	3.529e+05	-2.772e+06	-7.166e+05	-1.702e+06	-1.483e+06	
422	1484	57.51	492.72-842.69	-227.78	-122.20	665.62	1.652e+06	-3.077e+06	-9.566e+04	-1.329e+06	-2.283e+06	
	485	59.10	390.01-946.18	28.71	-584.89	593.48	5.069e+05	-4.092e+06	-1.851e+06	-1.734e+06	-2.299e+06	
	454	52.19	223.93-917.34	-137.04	-556.37	530.72	5.183e+05	-3.571e+06	-1.758e+06	-1.294e+06	-2.031e+06	
	453	51.31	473.82-730.35	-171.27	-85.26	600.55	1.550e+06	-2.673e+06	-4.501e+04	-1.078e+06	-2.048e+06	
422	2484	44.39	357.94-676.75	-175.95	-142.86	517.08	1.187e+06	-2.452e+06	-1.506e+05	-1.114e+06	-1.755e+06	
	485	45.80	282.30-759.72	21.35	-498.78	451.46	3.065e+05	-3.233e+06	-1.501e+06	-1.426e+06	-1.769e+06	
	454	40.40	150.78-733.77	-110.55	-472.45	403.56	3.284e+05	-2.817e+06	-1.425e+06	-1.063e+06	-1.562e+06	
	453	39.57	343.37-590.30	-136.88	-110.05	466.65	1.122e+06	-2.126e+06	-1.074e+05	-8.968e+05	-1.576e+06	
423	1483	57.05	653.70-672.98	-130.24	110.97	652.28	2.770e+06	-1.944e+06	7.613e+05	6.511e+04	-2.331e+06	
	484	57.50	560.38-788.76	130.94	-359.33	628.46	1.675e+06	-3.052e+06	-1.032e+06	-3.459e+05	-2.338e+06	
	453	51.42	421.73-764.20	11.00	-353.47	564.27	1.508e+06	-2.725e+06	-1.005e+06	-2.120e+05	-2.079e+06	
	452	51.02	642.49-540.09	-23.26	125.67	586.58	2.485e+06	-1.734e+06	7.433e+05	7031.21	-2.077e+06	
423	2483	43.81	479.24-543.67	-100.92	36.50	506.82	2.046e+06	-1.579e+06	5.085e+05	-4.185e+04	-1.792e+06	
	484	44.37	410.85-636.13	99.99	-325.27	478.36	1.204e+06	-2.432e+06	-8.708e+05	-3.580e+05	-1.800e+06	
	453	39.66	301.63-614.67	3.33	-316.37	429.36	1.090e+06	-2.166e+06	-8.460e+05	-2.307e+05	-1.599e+06	
	452	39.20	472.04-442.87	-23.03	52.20	455.90	1.841e+06	-1.404e+06	4.990e+05	-6.219e+04	-1.598e+06	
424	1482	57.64	790.80-484.48	-27.00	333.32	611.66	3.783e+06	-7.647e+05	1.575e+06	1.444e+06	-2.273e+06	
	483	56.97	710.30-608.59	226.81	-125.10	635.54	2.791e+06	-1.917e+06	-1.710e+05	1.045e+06	-2.274e+06	
	452	50.90	600.51-583.74	158.15	-141.38	572.87	2.433e+06	-1.776e+06	-2.129e+05	8.696e+05	-2.034e+06	
	451	50.96	782.70-331.89	125.03	325.78	548.18	3.308e+06	-7.373e+05	1.489e+06	1.082e+06	-2.012e+06	
424	2482	44.05	582.18-396.15	-21.50	207.54	475.57	2.824e+06	-6.717e+05	1.134e+06	1.018e+06	-1.747e+06	
	483	43.74	523.71-495.08	173.73	-145.09	483.81	2.062e+06	-1.559e+06	-2.086e+05	7.116e+05	-1.751e+06	



452	39.11	438.02-474.72	116.52	-153.22	435.99	1.802e+06-1.437e+06-2.365e+056.013e+05-1.564e+06
451	39.00	578.81-281.64	91.05	206.13	426.36	2.475e+06-6.375e+05 1.072e+06 7.648e+05-1.549e+06
425	1481	59.05	899.21-284.39	78.14	536.68	545.59 4.646e+06 3.998e+05 2.300e+06 2.746e+06-2.111e+06
482	57.48	833.95-412.67	312.93	108.35	614.86	3.801e+06-7.377e+05 6.881e+05 2.375e+06-2.107e+06
451	50.62	752.65-383.28	297.99	71.37	556.55	3.250e+06-7.680e+05 5.793e+05 1.902e+06-1.897e+06
480	51.08	888.61-114.44	266.69	507.49	486.86	3.984e+06 2.683e+05 2.152e+06 2.100e+06-1.857e+06
425	2481	44.95	662.89-239.56	59.37	363.97	424.74 3.487e+06 2.250e+05 1.692e+06 2.020e+06-1.623e+06
482	43.92	616.28-341.82	239.98	34.49	467.90	2.838e+06-6.504e+05 4.523e+05 1.735e+06-1.622e+06
451	38.74	553.95-319.43	224.09	10.43	423.42	2.430e+06-6.613e+05 3.729e+05 1.396e+06-1.459e+06
480	38.96	659.10-113.19	200.01	345.90	379.19	2.994e+06 1.358e+05 1.582e+06 1.548e+06-1.429e+06
426	1510	60.97	975.13-81.20	180.86	713.08	456.23 5.333e+06 1.481e+06 2.900e+06 3.915e+06-1.858e+06
481	58.86	927.51-208.79	386.25	332.48	567.51	4.660e+06 4.255e+05 1.498e+06 3.587e+06-1.842e+06
480	50.59	871.57-170.98	423.85	276.74	516.06	3.921e+06 2.496e+05 1.330e+06 2.841e+06-1.673e+06
479	51.33	955.64103.02	395.24	663.42	404.68	4.488e+06 1.229e+06 2.700e+06 3.016e+06-1.622e+06
426	2510	46.28	718.23-80.19	138.39	499.66	356.01 4.015e+06 1.058e+06 2.153e+06 2.919e+06-1.428e+06
481	44.79	685.43-182.16	296.37	206.89	431.48	3.497e+06 2.454e+05 1.076e+06 2.667e+06-1.418e+06
480	38.58	644.27-154.96	320.91	168.41	392.28	2.947e+06 1.212e+05 9.501e+05 2.118e+06-1.287e+06
479	39.03	709.1955.56	298.90	465.85	315.97	3.383e+06 8.742e+05 2.004e+06 2.252e+06-1.248e+06
427	1478	54.19	981.20310.45	786.17	505.49	-304.60 4.813e+06 2.090e+06 3.789e+06 3.115e+06 1.319e+06
509	65.57	1016.26114.02	853.82	276.46	-346.66	5.839e+06 2.413e+06 4.898e+06 3.354e+06 1.529e+06
510	60.79	988.22-5.96	538.68	443.58	-494.81	5.344e+06 1.503e+06 4.628e+06 2.219e+06 1.496e+06
479	50.79	951.8044.35	466.51	529.64	-452.63	4.426e+06 1.221e+06 3.645e+06 2.002e+06 1.376e+06
427	2478	40.80	726.77217.21	560.27	383.71	-239.00 3.634e+06 1.537e+06 2.847e+06 2.323e+06 1.015e+06
509	49.32	746.1373.71	607.92	211.92	-271.72	4.402e+06 1.776e+06 3.676e+06 2.503e+06 1.175e+06
510	46.13	728.76-22.78	365.51	340.48	-375.56	4.023e+06 1.075e+06 3.468e+06 1.630e+06 1.152e+06
479	38.61	704.6212.04	314.38	402.28	-343.49	3.335e+06 8.681e+05 2.737e+06 1.467e+06 1.058e+06
428	1477	57.20	966.78495.48	868.93	593.33	-191.15 4.970e+06 2.800e+06 4.386e+06 3.383e+06 9.621e+05
508	70.23	1025.00286.10	950.88	360.22	-221.98	6.167e+06 3.138e+06 5.653e+06 3.653e+06 1.137e+06
509	65.83	1015.63183.52	716.82	482.33	-399.19	5.847e+06 2.431e+06 5.455e+06 2.822e+06 1.089e+06
478	53.42	989.91252.93	631.64	611.21	-368.35	4.757e+06 2.093e+06 4.281e+06 2.569e+06 1.021e+06
428	2477	43.06	712.17363.04	623.94	451.27	-151.73 3.754e+06 2.082e+06 3.306e+06 2.530e+06 7.405e+05
508	52.85	748.11210.83	682.58	276.36	-175.82	4.654e+06 2.336e+06 4.256e+06 2.733e+06 8.735e+05
509	49.52	745.58127.25	502.54	370.29	-302.01	4.408e+06 1.790e+06 4.104e+06 2.094e+06 8.386e+05
478	40.21	732.12174.30	441.40	465.03	-278.66	3.590e+06 1.538e+06 3.225e+06 1.903e+06 7.847e+05
429	1476	59.03	925.36636.91	907.45	654.83	-69.62 4.995e+06 3.286e+06 4.782e+06 3.499e+06 5.645e+05
507	73.18	1012.58414.34	999.33	427.58	-88.03	6.338e+06 3.598e+06 6.148e+06 3.788e+06 6.972e+05
508	70.43	1015.20342.45	857.64	500.02	-284.91	6.172e+06 3.151e+06 6.031e+06 3.292e+06 6.384e+05
477	56.65	985.85443.28	763.79	665.34	-266.78	4.923e+06 2.809e+06 4.719e+06 3.013e+06 6.241e+05
429	2476	44.43	673.01479.13	653.56	498.58	-58.24 3.774e+06 2.455e+06 3.611e+06 2.619e+06 4.347e+05
507	55.08	732.94315.09	719.85	328.17	-72.78	4.784e+06 2.690e+06 4.637e+06 2.837e+06 5.350e+05
508	52.99	739.69255.06	610.86	383.89	-214.10	4.657e+06 2.345e+06 4.547e+06 2.455e+06 4.923e+05
477	42.63	726.22323.51	543.06	506.67	-200.53	3.719e+06 2.089e+06 3.563e+06 2.245e+06 4.797e+05
430	1475	59.46	912.98673.89	899.86	687.01	54.46 4.974e+06 3.446e+06 4.960e+06 3.459e+06 1.423e+05
506	74.08	1001.59470.54	997.00	475.14	49.18	6.383e+06 3.736e+06 6.364e+06 3.755e+06 2.260e+05
507	73.27	1002.85446.41	954.09	495.17	-157.34	6.341e+06 3.604e+06 6.331e+06 3.614e+06 1.628e+05
476	58.76	946.96599.26	856.44	689.78	-152.58	4.968e+06 3.296e+06 4.943e+06 3.321e+06 2.025e+05



430	2475	44.75	658.00513.06	647.72	523.34	37.20	3.758e+06	2.578e+06	3.748e+06	2.588e+06	1.099e+05
	506	55.76	721.07361.74	718.06	364.76	32.76	4.818e+06	2.797e+06	4.803e+06	2.812e+06	1.726e+05
	507	55.15	724.14341.07	685.05	380.17	-115.96	4.786e+06	2.695e+06	4.778e+06	2.703e+06	1.264e+05
	476	44.22	691.02448.77	614.32	525.47	-112.68	3.754e+06	2.463e+06	3.735e+06	2.482e+06	1.553e+05
431	1474	58.42	959.84575.04	846.71	688.17	175.31	4.963e+06	3.214e+06	4.914e+06	3.263e+06	-2.867e+05
	505	72.85	1010.25434.73	944.28	500.70	183.35	6.315e+06	3.530e+06	6.291e+06	3.554e+06	-2.563e+05
	506	74.07	1002.76466.67	1001.84	467.59	-22.17	6.383e+06	3.735e+06	6.344e+06	3.774e+06	-3.190e+05
	475	59.49	909.54679.04	905.32	683.26	-30.90	4.977e+06	3.444e+06	4.942e+06	3.479e+06	-2.271e+05
431	2474	43.97	702.10428.97	606.84	524.23	130.17	3.749e+06	2.400e+06	3.713e+06	2.437e+06	-2.201e+05
	505	54.83	730.86331.06	677.50	384.42	135.97	4.766e+06	2.638e+06	4.748e+06	2.657e+06	-1.983e+05
	506	55.75	722.17358.55	721.78	358.95	-11.99	4.818e+06	2.796e+06	4.788e+06	2.826e+06	-2.442e+05
	475	44.77	654.64517.74	651.93	520.45	-19.08	3.761e+06	2.577e+06	3.734e+06	2.603e+06	-1.751e+05
432	1473	56.05	995.86412.79	750.44	658.21	287.87	4.897e+06	2.668e+06	4.646e+06	2.918e+06	-7.038e+05
	504	69.63	1026.13320.84	843.63	503.34	308.88	6.116e+06	3.010e+06	5.935e+06	3.191e+06	-7.283e+05
	505	72.74	1020.56396.74	998.86	418.44	114.31	6.313e+06	3.523e+06	6.070e+06	3.766e+06	-7.869e+05
	474	58.76	937.65616.62	908.29	645.98	92.54	4.994e+06	3.204e+06	4.718e+06	3.480e+06	-6.466e+05
432	2473	42.18	734.31299.66	532.79	501.18	216.75	3.698e+06	1.980e+06	3.506e+06	2.172e+06	-5.409e+05
	504	52.39	749.16237.37	600.08	386.45	232.54	4.614e+06	2.237e+06	4.473e+06	2.378e+06	-5.615e+05
	505	54.74	740.13300.50	719.49	321.14	93.00	4.765e+06	2.632e+06	4.577e+06	2.820e+06	-6.041e+05
	474	44.23	684.13461.85	654.21	491.78	75.87	3.774e+06	2.392e+06	3.562e+06	2.604e+06	-4.978e+05
433	1472	52.64	994.17219.75	615.53	598.38	387.12	4.695e+06	1.912e+06	4.168e+06	2.439e+06	-1.091e+06
	503	64.77	1025.38157.49	699.76	483.11	420.21	5.754e+06	2.236e+06	5.308e+06	2.682e+06	-1.170e+06
	504	69.42	1034.26261.29	945.58	349.97	246.34	6.111e+06	2.996e+06	5.520e+06	3.587e+06	-1.221e+06
	473	56.65	978.56466.35	865.47	579.44	212.45	4.945e+06	2.659e+06	4.281e+06	3.324e+06	-1.038e+06
433	2472	39.62	735.47148.70	429.01	455.16	293.09	3.543e+06	1.399e+06	3.138e+06	1.803e+06	-8.387e+05
	503	48.72	753.79106.51	489.41	370.89	318.17	4.337e+06	1.641e+06	3.991e+06	1.986e+06	-9.009e+05
	504	52.23	756.12190.85	678.50	268.47	194.56	4.610e+06	2.226e+06	4.154e+06	2.682e+06	-9.379e+05
	473	42.65	721.77340.09	621.27	440.59	168.11	3.735e+06	1.974e+06	3.225e+06	2.484e+06	-7.991e+05
434	1486	61.44	128.25-1102.77-391.50	-583.01	-583.01	608.01	-6.746e+05	-5.016e+06	-1.772e+06	-3.918e+06	-1.887e+06
	487	64.68	22.23-1171.86	-178.30	-971.33	446.36	-1.747e+06	-5.735e+06	-3.225e+06	-4.257e+06	-1.926e+06
	456	54.47	-191.43-1120.11-411.25	-900.28	-900.28	394.75	-1.461e+06	-4.823e+06	-3.016e+06	-3.268e+06	-1.676e+06
	455	52.66	80.91-1026.80	-440.66	-505.22	552.92	-4.669e+05	-4.217e+06	-1.597e+06	-3.087e+06	-1.720e+06
434	2486	47.79	83.15-882.38	-301.90	-497.33	472.77	-6.008e+05	-3.945e+06	-1.440e+06	-3.106e+06	-1.450e+06
	487	50.79	4.98-938.91	-137.89	-796.04	338.30	-1.425e+06	-4.499e+06	-2.558e+06	-3.366e+06	-1.483e+06
	456	42.71	-165.17-893.31	-321.48	-737.00	298.97	-1.195e+06	-3.780e+06	-2.393e+06	-2.581e+06	-1.289e+06
	455	40.89	43.70-820.91	-344.11	-433.10	430.01	-4.299e+05	-3.313e+06	-1.301e+06	-2.442e+06	-1.324e+06
435	1488	71.23	-153.35-1235.47-1114.91	-273.92	-273.92	-340.48	-2.712e+06	-6.290e+06	-5.280e+06	-3.723e+06	-1.611e+06
	457	58.91	-386.80-1164.92-1025.96	-525.75	-525.75	-298.02	-2.353e+06	-5.188e+06	-4.072e+06	-3.469e+06	-1.385e+06
	456	53.59	-125.01-1121.64-696.18	-550.48	-550.48	-492.96	-1.452e+06	-4.760e+06	-3.922e+06	-2.291e+06	-1.439e+06
	487	65.04	-55.44-1186.10	-790.67	-450.88	-539.20	-1.766e+06	-5.751e+06	-4.998e+06	-2.518e+06	-1.560e+06
435	2488	55.92	-126.83-991.10	-906.48	-211.44	-256.84	-2.167e+06	-4.928e+06	-4.153e+06	-2.941e+06	-1.240e+06
	457	46.21	-312.75-930.48	-833.68	-409.56	-224.56	-1.881e+06	-4.060e+06	-3.200e+06	-2.741e+06	-1.065e+06
	456	42.01	-113.00-895.57	-579.99	-428.58	-383.89	-1.188e+06	-3.731e+06	-3.084e+06	-1.835e+06	-1.108e+06
	487	51.07	-54.87-949.76	-657.07	-347.57	-419.83	-1.439e+06	-4.512e+06	-3.937e+06	-2.014e+06	-1.199e+06
436	1489	76.52	-305.77-1268.75-1216.03	-358.50	-358.50	-219.08	-3.487e+06	-6.661e+06	-6.082e+06	-4.066e+06	-1.226e+06
	458	62.46	-555.29-1175.72-1112.57	-618.44	-618.44	-187.59	-3.108e+06	-5.375e+06	-4.706e+06	-3.777e+06	-1.034e+06



457	58.11	-322.98-1177.08-862.72	-637.34	-411.92-2.355e+06-5.129e+06-4.593e+06-2.891e+061.095e+06	
488	71.54	-223.70-1238.29-970.32	-491.67	-447.30-2.728e+06-6.302e+06-5.870e+06-3.160e+061.165e+06	
436	2489	60.05	-240.58-1020.19-984.27	-276.51	-163.46-2.761e+06-5.214e+06-4.771e+06-3.204e+069.441e+05
458	49.00	-438.64-942.52 -900.30	-480.86	-139.62-2.462e+06-4.203e+06-3.687e+06-2.978e+067.950e+05	
457	45.60	-263.07-940.42 -708.10	-495.40	-321.54-1.883e+06-4.014e+06-3.600e+06-2.297e+068.429e+05	
488	56.16	-180.62-993.59 -795.26	-378.95	-349.14-2.178e+06-4.937e+06-4.608e+06-2.508e+068.949e+05	
437	1490	79.99	-419.08-1279.15-1270.17	-428.06	-87.42-4.003e+06-6.866e+06-6.629e+06-4.239e+067.877e+05
459	64.72	-675.46-1165.93-1156.23	-685.16	-68.27-3.654e+06-5.416e+06-5.142e+06-3.927e+066.383e+05	
458	61.86	-500.04-1194.78-997.45	-697.37	-313.29-3.118e+06-5.324e+06-5.071e+06-3.372e+067.038e+05	
489	76.75	-361.48-1264.30-1113.97	-511.81	-336.33-3.498e+06-6.669e+06-6.496e+06-3.671e+067.195e+05	
437	2490	62.75	-324.50-1031.43-1025.92	-330.01	-62.18-3.157e+06-5.373e+06-5.192e+06-3.338e+066.072e+05
459	50.76	-526.56-939.50 -933.88	-532.18	-47.83-2.883e+06-4.234e+06-4.023e+06-3.094e+064.906e+05	
458	48.54	-396.29-957.03 -811.74	-541.57	-245.68-2.470e+06-4.164e+06-3.968e+06-2.666e+065.419e+05	
489	60.22	-282.75-1017.45-905.77	-394.43	-263.78-2.769e+06-5.220e+06-5.089e+06-2.901e+065.522e+05	
438	1491	81.34	-476.41-1277.84-1274.88	-479.37	48.64-4.200e+06-6.935e+06-6.898e+06-4.237e+063.161e+05
460	65.47	-716.10-1161.73-1154.94	-722.90	54.61-3.884e+06-5.393e+06-5.361e+06-3.915e+062.153e+05	
459	64.39	-638.85-1183.37-1094.33	-727.89	-201.38-3.665e+06-5.383e+06-5.335e+06-3.713e+062.824e+05	
490	80.12	-451.81-1273.59-1215.20	-510.20	-211.12-4.009e+06-6.870e+06-6.849e+06-4.030e+062.431e+05	
438	2491	63.79	-366.76-1032.27-1029.54	-369.48	42.48-3.307e+06-5.427e+06-5.398e+06-3.336e+062.444e+05
460	51.35	-555.43-938.66 -932.89	-561.21	46.69-3.061e+06-4.216e+06-4.192e+06-3.085e+061.652e+05	
459	50.51	-499.24-952.08 -886.27	-565.05	-159.59-2.892e+06-4.209e+06-4.172e+06-2.929e+062.176e+05	
490	62.84	-349.00-1027.83-983.64	-393.19	-167.47-3.161e+06-5.376e+06-5.360e+06-3.177e+061.858e+05	
439	1492	80.44	-466.03-1273.83-1229.78	-510.07	183.41-4.049e+06-6.886e+06-6.876e+06-4.059e+06-1.689e+05
461	64.63	-660.89-1177.70-1108.58	-730.01	175.91-3.713e+06-5.384e+06-5.355e+06-3.742e+06-2.168e+05	
460	65.45	-712.44-1164.05-1148.93	-727.56	-81.25-3.885e+06-5.390e+06-5.375e+06-3.900e+06-1.510e+05	
491	81.35	-479.20-1276.94-1269.36	-486.78	-77.38-4.200e+06-6.935e+06-6.913e+06-4.222e+06-2.437e+05	
439	2492	63.09	-359.48-1028.47-994.86	-393.10	146.15-3.192e+06-5.389e+06-5.382e+06-3.200e+06-1.287e+05
461	50.70	-515.35-948.56 -897.23	-566.68	140.01-2.929e+06-4.209e+06-4.187e+06-2.951e+06-1.672e+05	
460	51.33	-552.77-940.29 -928.27	-564.80	-67.19-3.061e+06-4.214e+06-4.202e+06-3.073e+06-1.157e+05	
491	63.80	-368.83-1031.65-1025.30	-375.18	-64.59-3.308e+06-5.427e+06-5.410e+06-3.325e+06-1.887e+05	
440	1493	77.37	-389.60-1266.01-1136.93	-518.68	310.60-3.575e+06-6.706e+06-6.566e+06-3.715e+06-6.461e+05
462	62.30	-533.12-1192.20-1019.26	-706.06	289.96-3.202e+06-5.336e+06-5.124e+06-3.415e+06-6.392e+05	
461	64.92	-692.47-1162.68-1158.87	-696.28	42.13-3.703e+06-5.413e+06-5.188e+06-3.927e+06-5.773e+05	
492	80.33	-438.17-1278.33-1274.10	-442.40	59.42-4.043e+06-6.883e+06-6.687e+06-4.239e+06-7.195e+05	
440	2493	60.71	-303.67-1019.48-923.43	-399.72	243.99-2.828e+06-5.249e+06-5.143e+06-2.934e+06-4.958e+05
462	48.88	-421.00-955.78 -828.52	-548.26	227.73-2.535e+06-4.173e+06-4.009e+06-2.700e+06-4.921e+05	
461	50.92	-538.80-937.85 -935.92	-540.73	27.73-2.920e+06-4.232e+06-4.059e+06-3.093e+06-4.436e+05	
492	63.01	-338.65-1031.34-1028.95	-341.04	40.64-3.188e+06-5.386e+06-5.236e+06-3.338e+06-5.547e+05	
441	1494	72.41	-260.70-1244.33-1000.24	-504.79	424.87-2.837e+06-6.362e+06-5.981e+06-3.218e+06-1.094e+06
463	58.69	-361.74-1181.14-890.75	-652.12	391.94-2.466e+06-5.160e+06-4.678e+06-2.948e+06-1.033e+06	
462	62.86	-585.98-1173.03-1123.57	-635.44	163.06-3.191e+06-5.384e+06-4.784e+06-3.791e+06-9.778e+05	
493	77.16	-337.20-1270.81-1229.08	-378.93	192.91-3.564e+06-6.698e+06-6.181e+06-4.081e+06-1.164e+06	
441	2494	56.84	-208.42-998.90 -818.29	-389.04	331.89-2.262e+06-4.984e+06-4.693e+06-2.553e+06-8.407e+05
463	46.05	-292.38-944.05 -729.67	-506.76	306.18-1.968e+06-4.038e+06-3.666e+06-2.341e+06-7.953e+05	
462	49.31	-461.35-941.35 -908.76	-493.93	120.75-2.526e+06-4.211e+06-3.748e+06-2.989e+06-7.517e+05	
493	60.54	-264.09-1022.45-994.32	-292.22	143.33-2.820e+06-5.243e+06-4.847e+06-3.217e+06-8.963e+05	



442	1495	66.05	-96.50-1198.17	-825.72	-468.95	521.15-1.903e+06	-5.836e+06	-5.147e+06	-2.592e+06	-1.495e+06
464	54.21		-165.74-1133.45	-728.68	-570.51	477.35-1.584e+06	-4.815e+06	-4.037e+06	-2.363e+06	-1.382e+06
463	59.46		-424.50-1167.72	-1044.55	-547.66	276.35-2.462e+06	-5.218e+06	-4.181e+06	-3.500e+06	-1.335e+06
494	72.11		-192.35-1242.97	-1136.25	-299.07	317.39-2.822e+06	-6.351e+06	-5.417e+06	-3.756e+06	-1.557e+06
442	2495	51.86	-85.93-959.57	-684.04	-361.46	405.96-1.545e+06	-4.578e+06	-4.051e+06	-2.071e+06	-1.149e+06
464	42.52		-144.00-904.99	-605.00	-443.99	371.88-1.290e+06	-3.773e+06	-3.173e+06	-1.891e+06	-1.064e+06
463	46.65		-341.14-933.25	-847.98	-426.41	207.89-1.965e+06	-4.083e+06	-3.283e+06	-2.765e+06	-1.027e+06
494	56.61		-156.23-997.46	-922.91	-230.79	239.08-2.251e+06	-4.974e+06	-4.259e+06	-2.966e+06	-1.199e+06
443	1465	52.60	41.30-1046.19	-464.68	-540.21	-542.43-6.170e+05	-4.297e+06	-1.685e+06	-3.228e+06	1.670e+06
464	55.10		-231.80-1130.22	-436.70	-925.32	-376.96-1.592e+06	-4.877e+06	-3.066e+06	-3.403e+06	1.634e+06
495	65.70		-19.85-1186.07	-206.20	-999.71	-427.32-1.885e+06	-5.821e+06	-3.277e+06	-4.429e+06	1.882e+06
496	61.68		87.46-1121.14	-412.60	-621.08	-595.24-8.379e+05	-5.126e+06	-1.864e+06	-4.101e+06	1.829e+06
443	2465	40.86	13.44-836.05	-362.58	-460.03	-421.94-5.455e+05	-3.375e+06	-1.369e+06	-2.551e+06	1.285e+06
464	43.21		-195.84-901.48	-341.06	-756.26	-285.28-1.295e+06	-3.821e+06	-2.431e+06	-2.686e+06	1.256e+06
495	51.59		-26.93-950.31	-159.35	-817.88	-323.64-1.531e+06	-4.565e+06	-2.598e+06	-3.499e+06	1.449e+06
496	48.00		52.16-896.91	-318.12	-526.63	-462.94-7.263e+05	-4.031e+06	-1.511e+06	-3.246e+06	1.406e+06
444	1466	51.75	247.96-920.80	-339.48	-333.36	-584.38 3.855e+05	-3.618e+06	-9.438e+05	-2.289e+06	1.886e+06
465	53.07		-23.63-1054.83	-307.54	-770.92	-460.61-6.362e+05	-4.358e+06	-2.507e+06	-2.487e+06	1.861e+06
496	61.76		166.20-1095.97	-104.51	-825.26	-518.07-8.172e+05	-5.107e+06	-2.665e+06	-3.260e+06	2.124e+06
497	59.15		277.84-1011.30	-338.44	-395.03	-643.95 2.984e+05	-4.251e+06	-1.064e+06	-2.888e+06	2.084e+06
444	2466	40.07	170.95-738.12	-266.27	-300.91	-454.20 2.259e+05	-2.853e+06	-7.988e+05	-1.829e+06	1.451e+06
465	41.22		-37.85-841.35	-241.70	-637.49	-349.63-5.600e+05	-3.422e+06	-2.002e+06	-1.981e+06	1.431e+06
496	48.05		113.14-877.96	-81.13	-683.69	-393.45-7.109e+05	-4.016e+06	-2.127e+06	-2.599e+06	1.635e+06
497	45.89		195.60-809.41	-261.07	-352.74	-500.41 1.469e+05	-3.356e+06	-8.959e+05	-2.314e+06	1.602e+06
445	1467	51.10	443.99-761.52	-200.27	-117.27	-601.32 1.375e+06	-2.806e+06	-1.711e+05	-1.260e+06	2.019e+06
466	52.08		187.60-941.53	-165.77	-588.16	-523.58 3.547e+05	-3.677e+06	-1.850e+06	-1.472e+06	2.007e+06
497	59.20		353.62-972.57	1.65	-620.60	-585.57 3.202e+05	-4.229e+06	-1.948e+06	-1.961e+06	2.275e+06
498	57.38		463.12-870.27	-249.58	-157.56	-665.11 1.448e+06	-3.240e+06	-2.293e+05	-1.562e+06	2.247e+06
445	2467	39.44	320.47-614.34	-159.18	-134.69	-467.24 9.875e+05	-2.228e+06	-2.044e+05	-1.037e+06	1.553e+06
466	40.33		122.97-752.53	-132.65	-496.91	-398.07 2.024e+05	-2.898e+06	-1.496e+06	-1.200e+06	1.543e+06
497	45.91		254.57-780.29	0.53	-526.26	-445.37 1.630e+05	-3.339e+06	-1.575e+06	-1.600e+06	1.751e+06
498	44.33		335.41-698.21	-192.72	-170.08	-516.68 1.030e+06	-2.577e+06	-2.535e+05	-1.294e+06	1.727e+06
446	1468	50.73	620.06-574.56	-53.19	98.69	-592.47 2.308e+06	-1.893e+06	5.994e+05	-1.850e+05	2.064e+06
467	51.24		391.06-793.63	-17.65	-384.92	-563.16 1.334e+06	-2.858e+06	-1.121e+06	-4.029e+05	2.065e+06
498	57.37		531.80-818.82	107.51	-394.53	-626.92 1.470e+06	-3.215e+06	-1.156e+06	-5.896e+05	2.326e+06
499	56.67		633.30-702.35	-150.09	81.03	-657.75 2.558e+06	-2.133e+06	6.055e+05	-1.808e+05	2.312e+06
446	2468	39.00	454.75-469.37	-46.05	31.43	-460.43 1.705e+06	-1.527e+06	3.883e+05	-2.100e+05	1.588e+06
467	39.55		278.10-637.38	-18.71	-340.57	-428.52 9.560e+05	-2.269e+06	-9.353e+05	-3.776e+05	1.588e+06
498	44.31		389.08-659.48	81.97	-352.36	-477.19 1.047e+06	-2.558e+06	-9.661e+05	-5.456e+05	1.790e+06
499	43.56		463.76-566.49	-116.19	13.46	-511.03 1.883e+06	-1.725e+06	3.887e+05	-2.311e+05	1.777e+06
447	1469	50.64	768.21-367.97	95.57	304.67	-558.39 3.142e+06	-9.201e+05	1.333e+06	8.893e+05	2.019e+06
468	50.65		576.77-616.68	130.61	-170.52	-577.42 2.258e+06	-1.937e+06	-3.551e+05	5.755e+05	2.033e+06
499	56.60		691.59-640.09	208.95	-157.45	-640.14 2.578e+06	-2.108e+06	-3.251e+05	7.959e+05	2.275e+06
500	57.08		780.01-513.96	-43.80	309.84	-622.36 3.578e+06	-9.794e+05	1.402e+06	1.197e+06	2.277e+06
447	2469	38.78	567.57-309.31	68.39	189.88	-434.21 2.347e+06	-7.781e+05	9.523e+05	6.164e+05	1.553e+06
468	38.94		419.73-500.05	95.33	-175.65	-439.48 1.667e+06	-1.561e+06	-3.459e+05	4.520e+05	1.563e+06



499	43.49	509.52-519.52	159.99	-169.99	-487.35	1.898e+06	-1.705e+06	-3.272e+05	2.02e+05	1.751e+06
500	43.66	574.10-419.06	-34.42	189.47	-483.80	2.667e+06	-8.371e+05	1.001e+06	8.287e+05	1.750e+06
448	1470	50.79	881.72-150.39	239.11	492.22	-500.30	3.843e+06	6.988e+04	1.999e+06	1.914e+06
469	50.35	736.39-418.01	272.11	46.27	-566.05	3.085e+06	-9.537e+05	4.177e+05	1.714e+06	1.913e+06
500	56.96	825.36-443.67	300.72	80.98	-624.93	3.597e+06	-9.539e+05	5.101e+05	2.133e+06	2.126e+06
501	58.45	896.51-313.12	63.81	519.58	-560.25	4.469e+06	1.686e+05	2.128e+06	2.509e+06	2.142e+06
448	2470	38.76	653.67-140.73	178.80	334.15	-389.53	2.887e+06	-1.685e+04	1.465e+06	1.405e+06
469	38.56	541.37-346.07	204.19	-8.89	-430.74	2.304e+06	-8.042e+05	2.485e+05	1.251e+06	1.471e+06
500	43.55	609.89-365.88	230.59	13.42	-475.65	2.681e+06	-8.169e+05	3.153e+05	1.549e+06	1.637e+06
501	44.52	661.08-261.93	48.35	350.80	-436.03	3.351e+06	4.702e+04	1.560e+06	1.838e+06	1.646e+06
449	1471	51.09	955.7568.29	371.38	652.66	-420.85	4.386e+06	1.030e+06	2.568e+06	2.848e+06
470	50.34	862.47-206.03	400.91	255.53	-529.28	3.783e+06	4.763e+04	1.162e+06	2.669e+06	1.709e+06
501	58.29	927.36-238.18	379.30	309.88	-581.73	4.485e+06	1.930e+05	1.312e+06	3.366e+06	1.884e+06
502	60.40	978.20-109.28	168.46	700.46	-474.23	5.197e+06	1.254e+06	2.751e+06	3.700e+06	1.913e+06
449	2471	38.87	709.2028.92	280.55	457.57	-328.42	3.304e+06	7.214e+05	1.903e+06	2.123e+06
470	38.41	637.16-181.82	303.26	152.08	-402.46	2.841e+06	-3.421e+04	8.209e+05	1.986e+06	1.314e+06
501	44.39	685.60-205.06	291.04	189.49	-442.42	3.363e+06	6.641e+04	9.322e+05	2.497e+06	1.451e+06
502	45.87	720.98-102.18	128.85	489.95	-369.86	3.910e+06	8.832e+05	2.039e+06	2.754e+06	1.471e+06
450	1471	50.56	949.53	9.89	448.06	511.36	468.76	4.325e+06	1.019e+06	3.499e+06
502	60.24	994.10-33.83	519.15	441.12	512.49	5.210e+06	1.276e+06	4.440e+06	2.046e+06	-1.561e+06
503	64.49	1023.3286.60	844.55	265.38	368.10	5.745e+06	2.218e+06	4.719e+06	3.244e+06	-1.602e+06
472	53.44	987.74277.73	778.90	486.57	323.52	4.753e+06	1.911e+06	3.648e+06	3.016e+06	-1.385e+06
450	2471	38.46	702.81-14.40	300.18	388.22	355.89	3.258e+06	7.131e+05	2.624e+06	1.347e+06
502	45.73	733.73-44.67	350.47	338.59	389.15	3.919e+06	9.008e+05	3.323e+06	1.497e+06	-1.202e+06
503	48.51	752.1652.02	600.78	203.40	288.22	4.330e+06	1.626e+06	3.538e+06	2.418e+06	-1.231e+06
472	40.24	731.90191.93	554.68	369.16	253.55	3.587e+06	1.399e+06	2.738e+06	2.247e+06	-1.066e+06
451	1517	67.84	199.16-1234.79	-387.04	-648.58	704.95	-9.624e+05	-5.990e+06	-2.022e+06	-4.930e+06
518	74.00	79.98-1319.62	-142.15	-1097.49	511.43	-2.183e+06	-6.973e+06	-3.670e+06	-5.486e+06	-2.216e+06
487	61.66	-165.63-1235.37	-408.12	-992.88	447.89	-1.854e+06	-5.825e+06	-3.462e+06	-4.217e+06	-1.950e+06
486	58.23	103.47-1137.39	-475.57	-558.34	619.05	-7.030e+05	-5.053e+06	-1.862e+06	-3.894e+06	-1.923e+06
451	2517	52.87	136.81-988.31	-298.13	-553.37	547.89	-8.360e+05	-4.718e+06	-1.641e+06	-3.913e+06
518	58.19	48.94-1057.37	-109.75	-898.68	387.79	-1.773e+06	-5.476e+06	-2.909e+06	-4.340e+06	-1.708e+06
487	48.41	-146.68-985.87	-319.75	-812.79	339.54	-1.511e+06	-4.569e+06	-2.745e+06	-3.334e+06	-1.501e+06
486	45.28	59.05-909.23	-371.64	-478.53	481.18	-6.260e+05	-3.974e+06	-1.515e+06	-3.085e+06	-1.479e+06
452	1519	82.90	-105.55-1388.67	-1258.16	-236.07	-387.86	-3.240e+06	-7.776e+06	-6.778e+06	-4.238e+06
488	67.68	-377.21-1284.77	-1132.01	-529.97	-339.56	-2.868e+06	-6.354e+06	-5.234e+06	-3.987e+06	1.628e+06
487	61.05	-119.51-1235.88	-769.34	-586.06	-550.61	-1.847e+06	-5.779e+06	-4.965e+06	-2.661e+06	1.593e+06
518	74.39	3.21-1325.64	-883.62	-438.80	-626.09	-2.195e+06	-6.992e+06	-6.316e+06	-2.872e+06	1.669e+06
452	2519	65.13	-90.07-1114.20	-1022.27	-182.00	-292.73	-2.583e+06	-6.097e+06	-5.334e+06	-3.346e+06
488	53.13	-306.46-1026.84	-919.82	-413.48	-256.21	-2.290e+06	-4.976e+06	-4.116e+06	-3.150e+06	1.253e+06
487	47.94	-110.41-987.05	-640.84	-456.63	-428.54	-1.506e+06	-4.533e+06	-3.909e+06	-2.130e+06	1.224e+06
518	58.50	-10.09-1062.02	-734.17	-337.95	-487.23	-1.782e+06	-5.492e+06	-4.979e+06	-2.295e+06	1.281e+06
453	1520	89.99	-265.70-1425.86	-1370.74	-320.82	-246.80	-4.056e+06	-8.359e+06	-7.787e+06	-4.628e+06
489	72.48	-560.38-1297.69	-1227.96	-630.11	-215.75	-3.694e+06	-6.685e+06	-6.032e+06	-4.346e+06	1.235e+06
488	67.15	-333.23-1292.44	-953.26	-672.41	-458.59	-2.869e+06	-6.311e+06	-5.830e+06	-3.349e+06	1.193e+06
519	83.24	-175.73-1384.38	-1087.18	-472.93	-520.46	-3.249e+06	-7.792e+06	-7.439e+06	-3.602e+06	1.215e+06





453	2520	70.64	-209.46-1146.61-1108.87	-247.19	-184.22-3.209e+06-6.548e+06-6.110e+06-3.646e+061.127e+06
489	56.88		-443.42-1040.72-993.63	-490.51	-160.97-2.925e+06-5.231e+06-4.730e+06-3.426e+069.510e+05
488	52.72		-272.18-1033.19-782.32	-523.05	-357.75-2.291e+06-4.943e+06-4.575e+06-2.659e+069.167e+05
519	65.39		-143.61-1111.35-890.75	-364.20	-405.98-2.590e+06-6.109e+06-5.843e+06-2.856e+069.318e+05
454	1521	94.60	-383.77-1438.74-1430.24	-392.27	-94.31-4.580e+06-8.716e+06-8.469e+06-4.826e+069.797e+05
490	75.57		-692.48-1287.92-1276.45	-703.95	-81.83-4.256e+06-6.846e+06-6.577e+06-4.525e+067.896e+05
489	72.09		-522.79-1309.84-1101.96	-730.67	-346.99-3.700e+06-6.650e+06-6.450e+06-3.899e+067.412e+05
520	90.23		-321.42-1416.29-1250.26	-487.46	-392.71-4.062e+06-8.370e+06-8.250e+06-4.182e+067.088e+05
454	2521	74.22	-296.93-1159.87-1154.65	-302.15	-66.93-3.609e+06-6.824e+06-6.635e+06-3.799e+067.568e+05
490	59.28		-540.46-1037.78-1030.93	-547.31	-57.95-3.357e+06-5.356e+06-5.149e+06-3.563e+066.082e+05
489	56.58		-414.54-1050.03-896.70	-567.87	-271.90-2.929e+06-5.204e+06-5.052e+06-3.082e+065.693e+05
520	70.83		-251.55-1140.02-1016.20	-375.37	-307.70-3.213e+06-6.557e+06-6.467e+06-3.303e+065.420e+05
455	1522	96.37	-443.04-1437.94-1433.96	-447.02	62.81-4.772e+06-8.847e+06-8.795e+06-4.824e+064.565e+05
491	76.67		-742.19-1281.19-1275.26	-748.12	56.23-4.475e+06-6.886e+06-6.846e+06-4.515e+063.102e+05
490	75.36		-668.09-1298.84-1208.76	-758.17	-220.68-4.261e+06-6.825e+06-6.799e+06-4.288e+062.578e+05
521	94.73		-416.39-1430.57-1365.56	-481.40	-248.40-4.583e+06-8.722e+06-8.715e+06-4.590e+061.714e+05
455	2522	75.58	-340.70-1161.07-1157.51	-344.26	53.94-3.757e+06-6.925e+06-6.885e+06-3.797e+063.544e+05
491	60.13		-576.16-1035.14-1030.01	-581.29	48.24-3.525e+06-5.387e+06-5.356e+06-3.556e+062.395e+05
490	59.12		-522.16-1045.72-978.86	-589.02	-174.74-3.361e+06-5.340e+06-5.320e+06-3.381e+061.975e+05
521	74.32		-321.34-1154.27-1104.89	-370.71	-196.70-3.611e+06-6.829e+06-6.824e+06-3.616e+061.287e+05
456	1523	95.16	-432.40-1431.68-1381.58	-482.50	218.07-4.620e+06-8.753e+06-8.751e+06-4.622e+06-8.583e+04
492	75.67		-691.04-1293.88-1224.28	-760.65	192.65-4.306e+06-6.839e+06-6.826e+06-4.320e+06-1.823e+05
491	76.65		-739.86-1282.58-1268.79	-753.65	-85.40-4.475e+06-6.885e+06-6.861e+06-4.499e+06-2.366e+05
522	96.38		-445.80-1436.85-1427.83	-454.82	-94.10-4.772e+06-8.847e+06-8.813e+06-4.807e+06-3.737e+05
456	2523	74.65	-333.22-1155.56-1117.22	-371.56	173.37-3.640e+06-6.853e+06-6.852e+06-3.641e+06-6.279e+04
492	59.36		-538.99-1042.74-990.80	-590.93	153.19-3.395e+06-5.351e+06-5.341e+06-3.405e+06-1.394e+05
491	60.12		-574.46-1036.13-1025.04	-585.54	-70.68-3.525e+06-5.386e+06-5.368e+06-3.543e+06-1.828e+05
522	75.59		-342.75-1160.31-1152.80	-350.26	-78.01-3.757e+06-6.926e+06-6.899e+06-3.784e+06-2.907e+05
457	1524	91.07	-353.14-1419.31-1275.49	-496.96	364.21-4.137e+06-8.433e+06-8.340e+06-4.229e+06-6.241e+05
493	72.67		-558.95-1307.68-1125.81	-740.82	321.08-3.784e+06-6.682e+06-6.519e+06-3.946e+06-6.665e+05
492	75.85		-712.14-1284.45-1279.45	-717.14	53.29-4.301e+06-6.857e+06-6.635e+06-4.523e+06-7.203e+05
523	95.05		-404.65-1438.36-1434.40	-408.62	63.88-4.617e+06-8.748e+06-8.540e+06-4.825e+06-9.024e+05
457	2524	71.48	-275.27-1143.03-1035.61	-382.68	285.78-3.270e+06-6.606e+06-6.536e+06-3.339e+06-4.769e+05
493	57.03		-441.58-1049.15-915.05	-575.67	251.98-2.994e+06-5.229e+06-5.105e+06-3.118e+06-5.118e+05
492	59.50		-554.75-1035.95-1033.24	-557.46	36.00-3.391e+06-5.365e+06-5.194e+06-3.562e+06-5.549e+05
523	74.56		-312.48-1160.09-1157.85	-314.72	43.52-3.638e+06-6.849e+06-6.689e+06-3.797e+06-6.974e+05
458	1525	84.42	-217.99-1391.91-1120.17	-489.72	495.14-3.359e+06-7.886e+06-7.581e+06-3.664e+06-1.134e+06
494	67.95		-376.45-1297.07-984.02	-689.50	436.12-2.986e+06-6.365e+06-5.940e+06-3.411e+06-1.121e+06
493	73.04		-594.89-1295.45-1240.12	-650.22	188.95-3.778e+06-6.715e+06-6.131e+06-4.362e+06-1.172e+06
524	90.84		-300.77-1428.78-1384.85	-344.69	218.22-4.131e+06-8.422e+06-7.910e+06-4.643e+06-1.392e+06
458	2525	66.31	-175.44-1117.81-916.14	-377.11	386.50-2.674e+06-6.182e+06-5.952e+06-2.904e+06-8.693e+05
494	53.35		-304.88-1037.31-805.99	-536.20	340.47-2.381e+06-4.985e+06-4.659e+06-2.707e+06-8.615e+05
493	57.31		-469.08-1039.88-1002.98	-505.98	140.36-2.989e+06-5.254e+06-4.806e+06-3.438e+06-9.025e+05
524	71.30		-235.77-1149.51-1119.74	-265.55	162.24-3.265e+06-6.597e+06-6.205e+06-3.658e+06-1.074e+06
459	1526	75.81	-44.19-1339.30-922.46	-461.03	605.06-2.340e+06-7.116e+06-6.506e+06-2.950e+06-1.594e+06
495	61.97		-165.38-1248.64-805.13	-608.89	532.67-1.993e+06-5.860e+06-5.113e+06-2.739e+06-1.526e+06



494	68.45	-419.67-1288.58-1152.50	-555.76	315.79-2.984e+06-6.407e+06-5.371e+06-4.020e+06-1.573e+06	
525	84.10	-149.73-1397.34-1281.32	-265.75	362.33-3.350e+06-7.870e+06-6.950e+06-4.271e+06-1.820e+06	
459	2526	59.61	-46.01-1073.08 -764.05	-355.04	471.06-1.892e+06-5.588e+06-5.125e+06-2.355e+06-1.223e+06
495	48.66	-145.33-997.23 -668.38	-474.19	414.74-1.618e+06-4.595e+06-4.023e+06-2.190e+06-1.173e+06	
494	53.73	-338.51-1030.40-935.59	-433.32	237.93-2.380e+06-5.017e+06-4.221e+06-3.175e+06-1.210e+06	
525	66.06	-123.46-1121.46-1040.10	-204.82	273.09-2.667e+06-6.170e+06-5.466e+06-3.371e+06-1.404e+06	
460	1496	58.40	58.65-1158.07 -502.35	-597.06	-606.51-8.732e+05-5.161e+06-1.959e+06-4.075e+06-1.865e+06
495	62.56	-211.21-1247.03-437.75	-1020.49	-428.17-1.998e+06-5.905e+06-3.515e+06-4.388e+06-1.904e+06	
526	75.42	31.72-1335.22 -175.06	-1128.44	-489.79-2.328e+06-7.097e+06-3.724e+06-5.701e+06-2.170e+06	
527	68.46	151.64-1254.70-411.96	-691.11	-689.18-1.140e+06-6.142e+06-2.120e+06-5.162e+06-1.985e+06	
460	2496	45.42	24.81-925.38 -392.23	-508.33	-471.54-7.569e+05-4.057e+06-1.590e+06-3.224e+06-1.434e+06
495	49.12	-181.34-995.24 -342.54	-834.04	-324.37-1.622e+06-4.630e+06-2.786e+06-3.465e+06-1.466e+06	
526	59.30	12.29-1069.85 -135.06	-922.50	-371.14-1.884e+06-5.572e+06-2.950e+06-4.506e+06-1.672e+06	
527	53.37	100.66-1004.05-317.29	-586.09	-535.75-9.724e+05-4.835e+06-1.716e+06-4.091e+06-1.523e+06	
461	1497	56.30	282.74-1026.19-374.82	-368.63	-654.46 3.098e+05-4.286e+06-1.105e+06-2.871e+06-2.121e+06
496	58.75	13.37-1164.57 -301.52	-849.67	-521.31-8.868e+05-5.207e+06-2.867e+06-3.226e+06-2.152e+06	
527	68.49	228.43-1237.86 -76.76	-932.67	-595.28-1.126e+06-6.120e+06-3.025e+06-4.220e+06-2.425e+06	
528	63.91	354.85-1135.73-344.95	-435.92	-743.90 1.741e+05-4.993e+06-1.208e+06-3.610e+06-2.287e+06	
461	2497	43.66	195.41-822.15 -294.13	-332.61	-508.42 1.527e+05-3.384e+06-9.325e+05-2.299e+06-1.631e+06
496	45.69	-11.00-929.40 -237.75	-702.65	-396.02-7.673e+05-4.092e+06-2.288e+06-2.572e+06-1.657e+06	
527	53.38	160.05-991.40 -59.44	-771.91	-452.28-9.617e+05-4.818e+06-2.413e+06-3.367e+06-1.868e+06	
528	49.67	253.40-908.94 -265.75	-389.80	-577.85 3.609e+04-3.949e+06-1.016e+06-2.897e+06-1.756e+06	
462	1498	54.85	495.47-857.14 -231.72	-129.95	-674.39 1.497e+06-3.266e+06-2.137e+05-1.555e+06-2.285e+06
497	56.56	240.48-1041.01-152.93	-647.60	-591.08 2.875e+05-4.329e+06-2.106e+06-1.936e+06-2.307e+06	
528	63.93	427.14-1104.82 24.99	-702.66	-674.06 1.910e+05-4.969e+06-2.207e+06-2.571e+06-2.574e+06	
529	60.79	552.76-983.74 -262.79	-168.20	-766.79 1.538e+06-3.711e+06-2.564e+05-1.916e+06-2.490e+06	
462	2498	42.36	357.51-690.57 -184.05	-149.01	-523.75 1.066e+06-2.599e+06-2.470e+05-1.286e+06-1.757e+06
497	43.85	161.77-832.43 -123.45	-547.20	-449.69 1.355e+05-3.417e+06-1.702e+06-1.579e+06-1.775e+06	
528	49.67	309.61-885.78 18.82	-594.98	-512.89 4.841e+04-3.930e+06-1.784e+06-2.098e+06-1.983e+06	
529	47.01	402.33-788.73 -202.54	-183.86	-595.46 1.083e+06-2.960e+06-2.831e+05-1.594e+06-1.912e+06	
463	1499	54.27	686.59-657.39 -79.37	108.57	-665.39 2.634e+06-2.142e+06 6.755e+05-1.834e+05 2.349e+06
498	54.96	458.25-879.77 1.47	-423.00	-634.45 1.467e+06-3.304e+06-1.263e+06-5.738e+05-2.360e+06	
529	60.77	616.27-939.00 125.65	-448.38	-722.73 1.557e+06-3.687e+06-1.304e+06-8.267e+05-2.611e+06	
530	59.75	734.39-803.17 -169.18	100.40	-756.87 2.888e+06-2.348e+06 6.952e+05-1.551e+05 2.583e+06	
463	2499	41.72	503.10-535.51 -66.87	34.46	-516.83 1.940e+06-1.734e+06 4.370e+05-2.311e+05 1.806e+06
498	42.44	327.67-706.78 -4.68	-374.44	-483.05 1.042e+06-2.628e+06-1.055e+06-5.314e+05-1.817e+06	
529	46.98	451.99-755.12 96.25	-399.38	-550.33 1.096e+06-2.941e+06-1.089e+06-7.561e+05-2.012e+06	
530	45.92	538.92-646.70 -130.53	22.76	-587.83 2.118e+06-1.909e+06 4.489e+05-2.395e+05 1.984e+06	
464	1500	54.61	847.34-435.39 75.69	336.26	-627.99 3.671e+06-9.636e+05 1.523e+06 1.185e+06 2.311e+06
499	54.20	655.96-686.89 155.08	-186.01	-649.41 2.597e+06-2.174e+06-3.784e+05-8.016e+05 2.311e+06	
530	59.69	785.90-746.09 221.09	-181.28	-739.11 2.907e+06-2.325e+06-3.566e+05-9.388e+05 2.535e+06	
531	60.97	890.59-600.70 -67.96	357.86	-714.60 4.164e+06-9.629e+05 1.604e+06 1.598e+06 2.564e+06	
464	2500	41.78	625.36-363.34 52.41	209.61	-488.06 2.737e+06-8.270e+05 1.089e+06 8.212e+05 1.777e+06
499	41.66	478.30-556.95 113.48	-192.14	-494.55 1.911e+06-1.758e+06-3.737e+05-5.266e+05 1.779e+06	
530	45.86	579.43-603.67 169.67	-193.92	-562.92 2.132e+06-1.890e+06-3.602e+05-6.019e+05 1.953e+06	
531	46.57	655.96-487.84 -52.68	220.80	-555.31 3.097e+06-8.406e+05 1.148e+06 1.109e+06 1.969e+06	



465	1501	55.71	970.50-200.53	226.43	543.54	-563.64	4.566e+06	2.166e+05	2.294e+06	2.488e+06	2.172e+06
	500	54.37	824.62-470.30	300.94	53.38	-635.52	3.629e+06	-9.871e+05	5.123e+05	2.129e+06	2.162e+06
	531	60.88	927.90-533.79	306.70	87.41	-722.57	4.183e+06	-9.417e+05	5.951e+05	2.647e+06	2.348e+06
	532	64.01	1014.31-385.04	35.93	593.33	-641.77	5.315e+06	3.805e+05	2.432e+06	3.264e+06	2.432e+06
465	2501	42.45	718.61-181.18	168.37	369.06	-438.56	3.425e+06	8.134e+04	1.682e+06	1.824e+06	1.670e+06
	500	41.60	606.62-388.93	225.68	-7.99	-483.87	2.705e+06	-8.451e+05	3.115e+05	1.548e+06	1.664e+06
	531	46.48	685.51-437.22	235.52	12.77	-550.21	3.111e+06	-8.236e+05	3.718e+05	1.916e+06	1.810e+06
	532	48.66	747.88-318.70	27.24	401.94	-499.30	3.980e+06	1.956e+05	1.785e+06	2.391e+06	1.868e+06
466	1502	57.29	1050.8836.43	366.35	720.96	-475.22	5.285e+06	1.341e+06	2.953e+06	3.672e+06	1.939e+06
	501	55.36	956.45-239.19	432.78	284.48	-593.20	4.520e+06	2.017e+05	1.369e+06	3.352e+06	1.918e+06
	532	63.91	1036.32-311.74	378.92	345.66	-673.82	5.333e+06	3.993e+05	1.509e+06	4.224e+06	2.060e+06
	533	68.07	1100.85-166.60	138.09	796.17	-541.61	6.298e+06	1.617e+06	3.142e+06	4.773e+06	2.194e+06
466	2502	43.52	778.69	2.85	276.00	505.54	-370.55	3.977e+06	9.466e+05	2.189e+06	2.735e+06
	501	42.18	706.56-209.69	327.10	169.78	-451.32	3.390e+06	6.978e+04	9.707e+05	2.489e+06	1.476e+06
	532	48.57	765.50-263.00	291.08	211.42	-512.71	3.993e+06	2.108e+05	1.075e+06	3.129e+06	1.588e+06
	533	51.59	810.85-147.07	105.82	557.97	-422.25	4.733e+06	1.149e+06	2.331e+06	3.551e+06	1.684e+06
467	1516	63.51	397.95-1110.74	-319.92	-392.87	753.46	3.846e+05	-4.814e+06	-1.088e+06	-3.341e+06	-2.342e+06
	517	67.88	276.02-1215.56	-43.33	-896.21	611.84	-9.472e+05	-5.968e+06	-2.948e+06	-3.967e+06	-2.458e+06
	486	58.58	58.23-1145.07	-269.76	-817.08	535.81	-7.175e+05	-5.099e+06	-2.792e+06	-3.025e+06	-2.188e+06
	485	56.27	323.23-998.69	-345.48	-329.98	660.92	5.019e+05	-4.150e+06	-9.866e+05	-2.662e+06	-2.170e+06
467	2516	49.32	286.21-889.37	-246.50	-356.66	585.21	1.974e+05	-3.810e+06	-9.227e+05	-2.690e+06	-1.799e+06
	517	52.89	196.29-973.87	-33.74	-743.85	465.03	-8.249e+05	-4.701e+06	-2.354e+06	-3.171e+06	-1.894e+06
	486	45.54	23.25-914.14	-213.33	-677.56	407.18	-6.372e+05	-4.010e+06	-2.230e+06	-2.417e+06	-1.684e+06
	485	43.60	226.41-800.85	-271.57	-302.87	513.39	3.004e+05	-3.279e+06	-8.415e+05	-2.137e+06	-1.668e+06
468	1515	60.78	587.37-955.75	-240.56	-127.82	769.50	1.778e+06	-3.506e+06	-1.087e+05	-1.619e+06	-2.531e+06
	516	63.53	469.58-1077.19	55.62	-663.23	684.79	4.024e+05	-4.791e+06	-2.102e+06	-2.286e+06	-2.595e+06
	485	56.51	281.25-1014.68	-121.00	-612.43	599.56	4.788e+05	-4.193e+06	-2.004e+06	-1.710e+06	-2.331e+06
	484	55.01	528.80-824.51	-201.40	-94.31	674.53	1.707e+06	-3.101e+06	-7.139e+04	-1.323e+06	-2.321e+06
468	2515	46.95	428.65-766.88	-185.45	-152.78	597.54	1.266e+06	-2.802e+06	-1.695e+05	-1.366e+06	-1.944e+06
	516	49.32	341.95-864.21	42.37	-564.63	521.15	2.104e+05	-3.792e+06	-1.703e+06	-1.879e+06	-1.999e+06
	485	43.79	192.98-812.01	-98.89	-520.14	456.22	2.827e+05	-3.312e+06	-1.624e+06	-1.406e+06	-1.794e+06
	484	42.45	383.06-665.39	-160.74	-121.58	523.86	1.227e+06	-2.472e+06	-1.375e+05	-1.108e+06	-1.785e+06
469	1514	60.23	757.54-774.47	-151.97	135.03	752.44	3.147e+06	-2.116e+06	8.727e+05	1.587e+05	-2.607e+06
	515	60.76	649.52-908.32	150.24	-409.05	726.99	1.797e+06	-3.482e+06	-1.167e+06	-5.185e+05	-2.620e+06
	484	55.09	492.07-848.26	31.94	-388.14	636.40	1.676e+06	-3.139e+06	-1.132e+06	-3.315e+05	-2.374e+06
	483	54.64	710.85-621.59	-49.33	138.59	659.56	2.852e+06	-1.948e+06	8.421e+05	6.103e+04	-2.368e+06
469	2514	46.23	556.39-624.28	-117.31	49.42	584.42	2.317e+06	-1.730e+06	5.855e+05	2016.78	-2.002e+06
	515	46.92	477.27-731.21	115.16	-369.11	553.60	1.281e+06	-2.783e+06	-9.832e+05	-5.189e+05	-2.019e+06
	484	42.51	353.60-682.44	18.76	-347.60	484.55	1.203e+06	-2.501e+06	-9.534e+05	-3.449e+05	-1.827e+06
	483	41.96	521.75-507.94	-43.76	57.57	512.34	2.107e+06	-1.585e+06	5.652e+05	-4.295e+04	-1.821e+06
470	1513	61.82	901.42-573.06	-56.64	385.00	703.39	4.423e+06	-7.036e+05	1.806e+06	1.913e+06	-2.563e+06
	514	60.16	806.97-714.90	236.91	-144.85	736.60	3.168e+06	-2.093e+06	-1.810e+05	1.256e+06	-2.530e+06
	483	54.53	681.05-652.13	182.84	-153.92	644.98	2.813e+06	-1.978e+06	-2.142e+05	1.049e+06	-2.311e+06
	482	55.12	861.91-398.22	104.27	359.41	617.02	3.880e+06	-7.420e+05	1.708e+06	1.430e+06	-2.307e+06
470	2513	47.16	663.90-466.18	-43.98	241.70	546.69	3.296e+06	-6.407e+05	1.304e+06	1.352e+06	-1.968e+06
	514	46.16	595.30-579.34	181.83	-165.88	561.00	2.332e+06	-1.711e+06	-2.252e+05	8.461e+05	-1.949e+06



483	41.88	497.57-530.18	134.83	-167.44	491.15	2.078e+06	-1.608e+06	-2.474e+05	7.172e+05	-1.779e+06	
482	42.13	636.59-334.77	74.40	227.43	479.61	2.898e+06	-6.564e+05	1.231e+06	1.010e+06	-1.774e+06	
471	1512	64.99	1014.87-358.67	43.12	613.08	624.85	5.546e+06	6.578e+05	2.637e+06	3.567e+06	-2.400e+06
513	61.70	936.10-504.20	313.38	118.52	713.53	4.442e+06	-6.806e+05	8.044e+05	2.957e+06	-2.324e+06	
482	54.83	840.40-434.15	325.48	80.77	625.42	3.836e+06	-7.625e+05	7.033e+05	2.370e+06	-2.143e+06	
481	56.25	976.18-163.66	252.47	560.05	548.77	4.745e+06	4.566e+05	2.478e+06	2.724e+06	-2.141e+06	
471	2512	49.37	747.83-297.92	32.76	417.15	486.27	4.157e+06	4.093e+05	1.943e+06	2.623e+06	-1.843e+06
513	47.06	691.42-414.05	240.66	36.71	543.25	3.309e+06	-6.223e+05	5.329e+05	2.154e+06	-1.791e+06	
482	41.92	618.79-361.14	244.55	13.10	476.10	2.864e+06	-6.722e+05	4.584e+05	1.733e+06	-1.649e+06	
481	42.83	723.01-152.85	188.39	381.77	427.12	3.563e+06	2.660e+05	1.823e+06	2.005e+06	-1.646e+06	
472	1511	69.02	1095.10-140.28	143.78	811.03	519.84	6.483e+06	1.882e+06	3.319e+06	5.047e+06	-2.132e+06
512	64.85	1034.16-284.31	378.32	371.53	659.23	5.562e+06	6.781e+05	1.731e+06	4.509e+06	-2.009e+06	
481	55.85	963.79-203.07	453.32	307.40	578.85	4.697e+06	4.451e+05	1.570e+06	3.573e+06	-1.875e+06	
510	57.79	1048.9672.25	388.50	732.71	457.03	5.420e+06	1.578e+06	3.112e+06	3.886e+06	-1.882e+06	
472	2511	52.29	805.79-126.18	110.20	569.41	405.49	4.875e+06	1.354e+06	2.467e+06	3.762e+06	-1.637e+06
512	49.25	763.32-241.38	290.61	231.33	501.47	4.168e+06	4.256e+05	1.246e+06	3.348e+06	-1.548e+06	
481	42.53	712.24-181.93	342.90	187.42	440.27	3.526e+06	2.571e+05	1.125e+06	2.658e+06	-1.443e+06	
510	43.88	777.1630.45	293.03	514.58	356.54	4.082e+06	1.129e+06	2.311e+06	2.899e+06	-1.447e+06	
473	1509	62.29	1077.43298.35	868.89	506.90	-344.94	5.899e+06	2.555e+06	4.863e+06	3.591e+06	1.546e+06
540	76.37	1139.4169.27	968.46	240.21	-392.06	7.221e+06	2.898e+06	6.287e+06	3.832e+06	1.780e+06	
511	68.91	1099.20-64.72	605.09	429.38	-575.29	6.498e+06	1.897e+06	5.846e+06	2.549e+06	1.605e+06	
510	57.37	1045.6331.68	517.19	560.11	-506.52	5.373e+06	1.573e+06	4.606e+06	2.341e+06	1.526e+06	
473	2509	46.86	796.52206.92	619.33	384.11	-270.32	4.449e+06	1.881e+06	3.651e+06	2.680e+06	1.189e+06
540	57.39	835.4639.42	690.52	184.37	-307.21	5.440e+06	2.138e+06	4.716e+06	2.862e+06	1.366e+06	
511	52.20	809.23-68.35	411.00	329.89	-436.91	4.886e+06	1.366e+06	4.377e+06	1.875e+06	1.238e+06	
510	43.55	773.45	0.39	348.80	425.04	-384.64	4.046e+06	1.126e+06	3.453e+06	1.718e+06	1.174e+06
474	1508	66.50	1063.66500.03	960.72	602.96	-217.77	6.190e+06	3.327e+06	5.614e+06	3.903e+06	1.147e+06
539	82.75	1150.72251.94	1076.27	326.39	-247.73	7.746e+06	3.657e+06	7.233e+06	4.170e+06	1.355e+06	
540	76.67	1131.00139.78	807.03	463.76	-464.94	7.234e+06	2.908e+06	6.911e+06	3.231e+06	1.138e+06	
509	61.78	1082.54258.94	699.80	641.69	-410.77	5.857e+06	2.557e+06	5.425e+06	2.988e+06	1.113e+06	
474	2508	50.04	781.86366.12	689.98	458.00	-172.50	4.672e+06	2.476e+06	4.229e+06	2.920e+06	8.817e+05
539	62.24	838.87185.23	773.44	250.66	-196.18	5.841e+06	2.725e+06	5.444e+06	3.122e+06	1.039e+06	
540	57.62	828.6993.98	566.33	356.33	-352.03	5.449e+06	2.146e+06	5.196e+06	2.400e+06	8.785e+05	
509	46.46	799.52177.54	489.27	487.79	-310.99	4.417e+06	1.883e+06	4.083e+06	2.216e+06	8.569e+05	
475	1507	69.08	1022.48653.05	1003.52	672.02	-81.53	6.322e+06	3.826e+06	6.107e+06	4.040e+06	6.998e+05
538	86.71	1140.89385.15	1129.17	396.87	-93.39	8.052e+06	4.121e+06	7.849e+06	4.324e+06	8.708e+05	
539	82.96	1135.68308.93	966.67	477.94	-333.41	7.756e+06	3.664e+06	7.657e+06	3.762e+06	6.271e+05	
508	66.13	1075.51464.85	845.76	694.60	-295.82	6.157e+06	3.333e+06	5.995e+06	3.494e+06	6.563e+05	
475	2507	51.99	742.69491.33	722.89	511.13	-67.70	4.773e+06	2.860e+06	4.608e+06	3.025e+06	5.374e+05
538	65.26	825.65293.36	814.13	304.88	-77.46	6.074e+06	3.084e+06	5.917e+06	3.240e+06	6.666e+05	
539	62.40	826.23230.14	689.13	367.24	-250.85	5.848e+06	2.731e+06	5.770e+06	2.808e+06	4.856e+05	
508	49.75	790.56339.47	601.54	528.49	-222.57	4.647e+06	2.480e+06	4.522e+06	2.605e+06	5.057e+05	
476	1506	69.76	1006.55699.36	995.33	710.58	57.63	6.344e+06	3.978e+06	6.323e+06	3.999e+06	2.209e+05
537	87.91	1130.99442.03	1124.94	448.08	64.30	8.139e+06	4.256e+06	8.108e+06	4.288e+06	3.471e+05	
538	86.82	1129.18417.00	1076.25	469.93	-186.80	8.056e+06	4.124e+06	8.054e+06	4.127e+06	9.153e+04	
507	68.90	1035.34628.84	947.83	716.35	-167.07	6.304e+06	3.831e+06	6.292e+06	3.843e+06	1.735e+05	



476	2506	52.51	724.99532.39	716.59	540.79	39.34	4.790e+06	2.977e+06	4.774e+06	2.993e+06	1.691e+05
537	66.17		814.96340.19	810.87	344.27	43.84	6.140e+06	3.189e+06	6.117e+06	3.212e+06	2.637e+05
538	65.34		815.38319.12	773.42	361.08	-138.07	6.077e+06	3.087e+06	6.075e+06	3.088e+06	7.362e+04
507	51.85		753.37471.92	680.06	545.22	-123.53	4.759e+06	2.864e+06	4.750e+06	2.874e+06	1.343e+05
477	1505	68.47	1049.22604.24	936.81	716.66	193.35	6.282e+06	3.749e+06	6.253e+06	3.777e+06	-2.687e+05
536	86.24		1136.44405.55	1064.10	477.89	218.26	8.010e+06	4.050e+06	8.000e+06	4.059e+06	-1.939e+05
537	87.89		1132.47438.14	1131.04	439.57	-31.44	8.138e+06	4.256e+06	8.086e+06	4.309e+06	-4.474e+05
506	69.78		1004.51702.55	1001.44	705.62	-30.28	6.346e+06	3.977e+06	6.303e+06	4.020e+06	-3.158e+05
477	2505	51.53	765.49451.55	671.57	545.46	143.75	4.742e+06	2.801e+06	4.720e+06	2.823e+06	-2.075e+05
536	64.90		821.98309.30	764.07	367.20	162.28	6.042e+06	3.029e+06	6.034e+06	3.037e+06	-1.524e+05
537	66.16		816.29337.00	815.57	337.73	-18.57	6.140e+06	3.188e+06	6.100e+06	3.228e+06	-3.409e+05
506	52.52		723.09535.17	721.29	536.97	-18.31	4.791e+06	2.977e+06	4.758e+06	3.010e+06	-2.421e+05
478	1504	65.36	1087.97432.71	830.66	690.01	319.99	6.106e+06	3.180e+06	5.900e+06	3.385e+06	-7.477e+05
535	81.87		1147.54287.31	949.46	485.39	362.16	7.663e+06	3.516e+06	7.531e+06	3.648e+06	-7.278e+05
536	86.12		1149.54367.54	1128.82	388.27	125.61	8.005e+06	4.046e+06	7.752e+06	4.298e+06	-9.671e+05
505	68.69		1035.68631.37	1004.31	662.75	108.17	6.303e+06	3.743e+06	6.029e+06	4.017e+06	-7.914e+05
478	2504	49.17	800.78314.11	589.92	524.97	241.16	4.608e+06	2.362e+06	4.449e+06	2.521e+06	-5.760e+05
535	61.57		836.59212.26	675.88	372.97	272.96	5.777e+06	2.616e+06	5.673e+06	2.720e+06	-5.630e+05
536	64.81		833.39278.73	813.85	298.26	102.24	6.038e+06	3.026e+06	5.843e+06	3.221e+06	-7.407e+05
505	51.70		754.54472.95	723.50	503.99	88.20	4.759e+06	2.797e+06	4.548e+06	3.008e+06	-6.080e+05
479	1503	60.75	1089.50224.18	681.84	631.85	431.93	5.767e+06	2.349e+06	5.280e+06	2.837e+06	-1.195e+06
534	75.21		1142.87114.06	786.33	470.60	489.58	7.096e+06	2.692e+06	6.720e+06	3.068e+06	-1.231e+06
535	81.64		1161.56226.99	1069.98	318.57	277.84	7.654e+06	3.508e+06	7.067e+06	4.094e+06	-1.445e+06
504	65.75		1077.16468.99	956.61	589.54	242.45	6.140e+06	3.174e+06	5.481e+06	3.833e+06	-1.233e+06
479	2503	45.69	805.11150.56	475.44	480.22	327.27	4.348e+06	1.723e+06	3.971e+06	2.099e+06	-9.200e+05
534	56.51		838.8073.20	550.40	361.60	370.98	5.343e+06	1.980e+06	5.049e+06	2.274e+06	-9.503e+05
535	61.40		848.30164.95	768.59	244.65	219.35	5.770e+06	2.610e+06	5.316e+06	3.064e+06	-1.108e+06
504	49.47		793.00341.49	686.81	447.68	191.49	4.634e+06	2.358e+06	4.127e+06	2.866e+06	-9.476e+05
480	1502	56.89	1045.80-3.96	497.01	544.83	524.33	5.239e+06	1.334e+06	4.418e+06	2.155e+06	-1.591e+06
533	67.96		1107.83-91.28	582.01	434.53	595.00	6.314e+06	1.632e+06	5.602e+06	2.345e+06	-1.682e+06
534	74.90		1148.8442.38	957.35	233.87	418.57	7.083e+06	2.680e+06	6.060e+06	3.703e+06	-1.860e+06
503	61.28		1085.94264.01	860.67	489.28	366.62	5.809e+06	2.349e+06	4.685e+06	3.473e+06	-1.621e+06
480	2502	43.21	773.63-27.07	333.26	413.29	398.34	3.942e+06	9.416e+05	3.309e+06	1.575e+06	-1.225e+06
533	51.50		816.59-89.50	393.23	333.86	452.07	4.744e+06	1.162e+06	4.189e+06	1.718e+06	-1.297e+06
534	56.28		843.5717.89	681.96	179.50	327.60	5.334e+06	1.970e+06	4.541e+06	2.763e+06	-1.428e+06
503	46.10		803.33180.23	613.00	370.56	287.00	4.380e+06	1.722e+06	3.514e+06	2.589e+06	-1.246e+06
481	1566	66.21	1059.27-732.57	-136.45	463.14	844.27	5.140e+06	-5.920e+05	1.996e+06	2.552e+06	-2.852e+06
565	63.04		966.14-874.34	262.16	-170.36	894.47	3.572e+06	-2.201e+06	-1.546e+05	1.526e+06	-2.762e+06
514	57.71		782.00-757.40	196.42	-171.81	747.35	3.188e+06	-2.167e+06	-2.366e+05	1.257e+06	-2.571e+06
513	59.23		968.31-488.12	72.34	407.85	708.62	4.533e+06	-6.742e+05	1.958e+06	1.901e+06	-2.603e+06
481	2566	50.40	781.15-589.83	-103.32	294.64	655.98	3.821e+06	-5.707e+05	1.443e+06	1.807e+06	-2.188e+06
565	48.32		715.00-704.37	203.30	-192.67	681.51	2.621e+06	-1.814e+06	-2.114e+05	1.018e+06	-2.131e+06
514	44.30		572.55-613.57	145.72	-186.75	569.29	2.347e+06	-1.771e+06	-2.736e+05	8.492e+05	-1.981e+06
513	45.21		715.22-405.79	50.28	259.15	550.69	3.379e+06	-6.206e+05	1.415e+06	1.344e+06	-2.000e+06
482	1567	72.05	1174.85-506.72	-58.27	726.39	743.64	6.635e+06	9.624e+05	2.929e+06	4.668e+06	-2.700e+06
566	66.29		1094.45-650.72	306.66	137.07	868.46	5.199e+06	-5.328e+05	9.492e+05	3.717e+06	-2.510e+06



513	58.90	946.38-525.12	329.53	91.73	726.08	4.472e+06	-7.141e+05	8.111e+05	2.946e+06	-2.363e+06	
512	61.97	1085.09-236.88	215.63	632.58	627.25	5.651e+06	7.274e+05	2.835e+06	3.544e+06	-2.436e+06	
482	2567	54.59	865.51-411.55	-43.18	497.14	578.56	4.964e+06	6.314e+05	2.161e+06	3.435e+06	-2.071e+06
566	50.43	809.23-527.88	237.53	43.82	661.50	3.865e+06	-5.244e+05	6.376e+05	2.703e+06	-1.937e+06	
513	44.95	697.02-432.92	248.12	15.98	552.92	3.332e+06	-6.513e+05	5.324e+05	2.149e+06	-1.820e+06	
512	47.10	802.88-210.36	160.50	432.02	488.10	4.238e+06	4.596e+05	2.089e+06	2.608e+06	-1.871e+06	
483	1568	79.16	1259.57-274.58	30.33	954.66	612.22	7.941e+06	2.298e+06	3.685e+06	6.553e+06	-2.430e+06
567	72.19	1190.99-416.77	342.68	431.54	802.65	6.690e+06	1.014e+06	1.983e+06	5.721e+06	-2.136e+06	
512	61.50	1072.86-277.70	448.84	346.31	673.33	5.589e+06	6.970e+05	1.798e+06	4.487e+06	-2.043e+06	
511	65.43	1159.1616.53	349.28	826.40	519.12	6.567e+06	1.999e+06	3.551e+06	5.015e+06	-2.164e+06	
483	2568	59.82	925.80-228.10	24.97	672.73	477.47	5.963e+06	1.664e+06	2.742e+06	4.885e+06	-1.863e+06
567	54.68	878.67-343.10	265.24	270.33	610.88	5.005e+06	6.716e+05	1.433e+06	4.244e+06	-1.649e+06	
512	46.73	792.18-240.47	339.90	211.81	512.34	4.190e+06	4.363e+05	1.292e+06	3.334e+06	-1.575e+06	
511	49.59	857.19-12.77	263.32	581.11	404.92	4.940e+06	1.440e+06	2.640e+06	3.740e+06	-1.661e+06	
484	1540	72.30	1188.30259.14	979.28	468.16	-387.97	7.271e+06	3.065e+06	6.248e+06	4.088e+06	1.805e+06
569	90.39	1309.35-52.62	1134.37	122.36	-455.74	9.022e+06	3.357e+06	8.126e+06	4.253e+06	2.067e+06	
568	79.80	1257.30-181.79	704.09	371.42	-700.06	7.991e+06	2.337e+06	7.447e+06	2.881e+06	1.668e+06	
511	64.95	1156.19-25.36	582.66	548.18	-590.52	6.510e+06	1.975e+06	5.815e+06	2.671e+06	1.634e+06	
484	2540	54.35	876.04177.42	698.71	354.76	-304.04	5.479e+06	2.262e+06	4.688e+06	3.053e+06	1.385e+06
569	67.87	958.74-52.01	810.97	95.76	-357.11	6.790e+06	2.484e+06	6.095e+06	3.179e+06	1.584e+06	
568	59.96	924.28-156.95	479.98	287.34	-531.97	6.001e+06	1.695e+06	5.572e+06	2.124e+06	1.289e+06	
511	49.23	853.75-43.83	393.61	416.31	-448.65	4.896e+06	1.422e+06	4.356e+06	1.963e+06	1.260e+06	
485	1539	78.07	1176.66471.92	1081.96	566.63	-240.36	7.757e+06	3.870e+06	7.189e+06	4.437e+06	1.372e+06
570	99.07	1327.24137.75	1256.30	208.68	-281.68	9.824e+06	4.126e+06	9.320e+06	4.630e+06	1.618e+06	
569	90.91	1293.9433.81	938.93	388.82	-566.86	9.062e+06	3.386e+06	8.824e+06	3.624e+06	1.137e+06	
540	71.80	1193.58218.54	788.20	623.91	-480.55	7.224e+06	3.048e+06	6.873e+06	3.400e+06	1.159e+06	
485	2539	58.73	861.82346.37	777.69	430.51	-190.50	5.851e+06	2.883e+06	5.413e+06	3.322e+06	1.053e+06
570	74.50	966.69100.23	904.76	162.17	-223.22	7.403e+06	3.079e+06	7.013e+06	3.469e+06	1.238e+06	
569	68.27	946.3615.00	660.62	300.74	-429.50	6.820e+06	2.507e+06	6.632e+06	2.695e+06	8.810e+05	
540	53.96	879.24147.06	551.72	474.57	-364.05	5.443e+06	2.249e+06	5.169e+06	2.524e+06	8.946e+05	
486	1538	81.59	1143.14625.45	1129.41	639.19	-83.20	8.027e+06	4.365e+06	7.801e+06	4.591e+06	8.807e+05
541	104.42	1324.04273.62	1315.06	282.60	-96.70	1.031e+07	4.589e+06	1.009e+07	4.807e+06	1.096e+06	
570	99.44	1307.06206.05	1124.27	388.84	-409.68	9.852e+06	4.147e+06	9.795e+06	4.203e+06	5.647e+05	
539	77.72	1187.83436.59	952.21	672.20	-348.55	7.723e+06	3.861e+06	7.613e+06	3.970e+06	6.405e+05	
486	2538	61.41	828.35472.16	814.19	486.32	-69.60	6.057e+06	3.266e+06	5.883e+06	3.440e+06	6.745e+05
541	78.59	958.81210.18	949.95	219.03	-80.92	7.773e+06	3.437e+06	7.605e+06	3.605e+06	8.371e+05	
570	74.78	949.90154.04	803.20	300.75	-308.60	7.424e+06	3.095e+06	7.379e+06	3.141e+06	4.405e+05	
539	58.46	870.15319.45	677.88	511.72	-262.51	5.824e+06	2.876e+06	5.739e+06	2.962e+06	4.956e+05	
487	1537	82.55	1132.77668.94	1119.69	682.02	76.78	8.094e+06	4.509e+06	8.060e+06	4.543e+06	3.486e+05
542	106.04	1316.71332.18	1308.08	340.82	91.78	1.045e+07	4.726e+06	1.040e+07	4.774e+06	5.231e+05	
541	104.60	1310.40310.55	1251.80	369.15	-234.87	1.032e+07	4.600e+06	1.032e+07	4.600e+06	-3.123e+04	
538	81.42	1153.66603.06	1066.76	689.97	-200.74	8.010e+06	4.362e+06	8.007e+06	4.365e+06	9.640e+04	
487	2537	62.14	816.33509.65	806.71	519.27	53.45	6.108e+06	3.377e+06	6.082e+06	3.403e+06	2.652e+05
542	79.83	950.55257.84	944.58	263.81	64.06	7.883e+06	3.544e+06	7.846e+06	3.580e+06	3.962e+05	
541	78.73	947.12239.77	901.29	285.61	-174.13	7.783e+06	3.446e+06	7.783e+06	3.446e+06	-1.789e+04	
538	61.28	837.05454.33	765.99	525.38	-148.81	6.044e+06	3.264e+06	6.041e+06	3.266e+06	7.706e+04	



488	1536	80.86	1167.47579.19	1053.59	693.08	232.43	7.965e+06	4.281e+06	7.954e+06	4.292e+06	-2.009e+05
	543	103.83	1317.00300.38	1235.84	381.53	275.53	1.025e+07	4.528e+06	1.025e+07	4.529e+06	-7.613e+04
	542	106.02	1318.74327.79	1316.28	330.25	-49.30	1.045e+07	4.726e+06	1.038e+07	4.795e+06	-6.259e+05
	537	82.56	1131.06671.65	1126.89	675.82	-43.56	8.095e+06	4.509e+06	8.038e+06	4.566e+06	-4.511e+05
488	2536	60.85	849.18434.45	755.86	527.78	173.20	6.009e+06	3.201e+06	6.000e+06	3.210e+06	-1.575e+05
	543	78.13	953.13231.01	889.01	295.13	205.40	7.727e+06	3.390e+06	7.726e+06	3.391e+06	-6.470e+04
	542	79.81	952.30254.27	950.89	255.68	-31.39	7.881e+06	3.544e+06	7.829e+06	3.596e+06	-4.753e+05
	537	62.15	814.84511.91	812.25	514.50	-27.91	6.109e+06	3.377e+06	6.065e+06	3.421e+06	-3.441e+05
489	1535	76.68	1202.58403.63	934.12	672.09	377.38	7.634e+06	3.700e+06	7.488e+06	3.846e+06	-7.430e+05
	544	97.95	1319.68185.66	1101.50	403.84	447.01	9.709e+06	3.998e+06	9.629e+06	4.079e+06	-6.735e+05
	543	103.61	1333.26256.15	1315.04	274.37	138.91	1.023e+07	4.517e+06	9.971e+06	4.778e+06	-1.194e+06
	536	81.07	1155.70604.75	1130.15	630.30	115.85	7.985e+06	4.285e+06	7.705e+06	4.565e+06	-9.793e+05
489	2535	57.67	882.50293.10	663.96	511.64	284.69	5.757e+06	2.753e+06	5.642e+06	2.867e+06	-5.745e+05
	544	73.64	961.05136.91	785.67	312.29	337.31	7.315e+06	2.981e+06	7.251e+06	3.045e+06	-5.242e+05
	543	77.97	966.98195.66	949.93	212.70	113.39	7.715e+06	3.382e+06	7.514e+06	3.583e+06	-9.123e+05
	536	61.01	839.66454.58	814.75	479.48	94.72	6.025e+06	3.204e+06	5.809e+06	3.420e+06	-7.504e+05
490	1534	70.41	1203.98183.03	766.82	620.18	505.18	7.090e+06	2.817e+06	6.683e+06	3.224e+06	-1.254e+06
	545	88.87	1308.689.92	911.24	407.36	598.52	8.858e+06	3.156e+06	8.573e+06	3.442e+06	-1.243e+06
	544	97.56	1339.75113.30	1248.38	204.67	322.05	9.680e+06	3.976e+06	9.110e+06	4.546e+06	-1.710e+06
	535	77.06	1192.00440.22	1076.74	555.48	270.86	7.671e+06	3.710e+06	7.023e+06	4.358e+06	-1.465e+06
490	2534	52.91	887.80119.17	535.27	471.71	383.00	5.340e+06	2.071e+06	5.023e+06	2.388e+06	-9.675e+05
	545	66.72	959.11-4.79	639.31	315.00	453.85	6.664e+06	2.330e+06	6.438e+06	2.555e+06	-9.622e+05
	544	73.34	977.6480.10	898.65	159.09	254.27	7.292e+06	2.963e+06	6.852e+06	3.404e+06	-1.309e+06
	535	57.96	874.76320.84	773.67	421.93	213.96	5.785e+06	2.760e+06	5.285e+06	3.260e+06	-1.124e+06
491	1533	64.12	1159.90-60.86	559.17	539.87	610.31	6.328e+06	1.695e+06	5.573e+06	2.451e+06	-1.711e+06
	546	77.78	1269.93-203.95	673.45	392.53	723.43	7.733e+06	2.036e+06	7.125e+06	2.644e+06	-1.759e+06
	545	88.33	1321.78-77.51	1119.46	124.80	492.11	8.816e+06	3.124e+06	7.834e+06	4.106e+06	-2.151e+06
	534	70.94	1199.99224.09	969.23	454.85	414.67	7.139e+06	2.834e+06	6.022e+06	3.951e+06	-1.887e+06
491	2533	48.62	856.91-71.45	375.53	409.93	463.86	4.756e+06	1.206e+06	4.169e+06	1.794e+06	-1.319e+06
	546	58.83	935.22-175.23	456.40	303.60	549.94	5.803e+06	1.463e+06	5.324e+06	1.941e+06	-1.359e+06
	545	66.31	969.55-72.42	799.48	97.65	385.09	6.632e+06	2.304e+06	5.870e+06	3.066e+06	-1.649e+06
	534	53.32	885.65149.84	690.96	344.53	324.58	5.378e+06	2.084e+06	4.514e+06	2.948e+06	-1.449e+06
492	1533	64.57	1164.53-18.96	332.94	812.63	-540.96	6.384e+06	1.721e+06	3.363e+06	4.743e+06	2.227e+06
	532	60.68	1068.14-312.93	434.75	320.46	-688.17	5.359e+06	4.046e+05	1.559e+06	4.204e+06	2.095e+06
	547	70.70	1195.97-436.93	360.27	398.78	-816.22	6.383e+06	6.823e+05	1.719e+06	5.346e+06	2.199e+06
	546	77.60	1268.77-295.98	38.64	934.15	-641.58	7.682e+06	1.993e+06	3.477e+06	6.198e+06	2.498e+06
492	2533	48.97	861.64-40.39	250.75	570.50	-421.73	4.800e+06	1.226e+06	2.495e+06	3.530e+06	1.710e+06
	532	46.14	788.72-267.75	329.06	191.91	-523.76	4.013e+06	2.111e+05	1.108e+06	3.116e+06	1.614e+06
	547	53.58	883.50-359.61	278.78	245.10	-621.33	4.770e+06	4.158e+05	1.230e+06	3.956e+06	1.698e+06
	546	58.70	933.99-245.68	31.38	656.93	-500.07	5.764e+06	1.429e+06	2.582e+06	4.611e+06	1.915e+06
493	1532	61.09	1082.02-272.85	195.52	613.65	-644.37	5.419e+06	4.398e+05	2.616e+06	3.243e+06	2.470e+06
	531	58.17	931.21-560.38	309.90	60.93	-735.33	4.210e+06	-9.851e+05	5.873e+05	2.638e+06	2.387e+06
	548	65.06	1085.09-673.49	312.66	98.95	-872.77	4.869e+06	-8.473e+05	7.071e+05	3.315e+06	2.543e+06
	547	70.54	1176.67-525.60	-49.26	700.32	-764.18	6.326e+06	6.310e+05	2.684e+06	4.272e+06	2.734e+06
493	2532	46.45	800.69-238.21	145.04	417.44	-501.28	4.059e+06	2.381e+05	1.921e+06	2.377e+06	1.897e+06
	531	44.44	685.48-460.18	233.03	-7.73	-560.04	3.131e+06	-8.600e+05	3.602e+05	1.911e+06	1.839e+06



548	49.55	802.82-546.19	242.16	14.46	-664.83	3.612e+06	-7.673e+05	4.514e+05	2.394e+06	1.963e+06	
547	53.48	867.83-427.01	-36.24	477.06	-594.38	4.727e+06	3.756e+05	1.972e+06	3.130e+06	2.097e+06	
494	1531	58.45	954.19-524.33	48.66	381.20	-720.32	4.270e+06	-9.411e+05	1.742e+06	1.587e+06	2.604e+06
530	57.29	754.73-791.82	170.75	-207.85	-749.75	2.923e+06	-2.405e+06	-4.230e+05	9.409e+05	2.575e+06	
549	62.48	939.85-900.76	251.77	-212.68	-890.52	3.258e+06	-2.488e+06	-3.487e+05	1.119e+06	2.777e+06	
548	64.97	1046.34-752.81	-134.89	428.41	-854.35	4.809e+06	-9.055e+05	1.762e+06	2.141e+06	2.851e+06	
494	2531	44.65	704.49-433.79	32.07	238.63	-559.69	3.177e+06	-8.262e+05	1.249e+06	1.103e+06	2.000e+06
530	44.02	551.71-640.21	125.99	-214.49	-571.13	2.143e+06	-1.954e+06	-4.169e+05	6.059e+05	1.984e+06	
549	47.96	695.36-725.28	195.33	-225.25	-678.48	2.380e+06	-2.036e+06	-3.608e+05	7.043e+05	2.143e+06	
548	49.51	771.93-606.14	-102.10	267.90	-663.74	3.567e+06	-8.129e+05	1.263e+06	1.491e+06	2.187e+06	
495	1530	57.36	786.05-761.61	-101.10	125.54	-765.49	2.980e+06	-2.354e+06	7.805e+05	1.544e+05	2.625e+06
529	58.34	546.61-997.25	23.46	-474.10	-730.74	1.550e+06	-3.790e+06	-1.428e+06	8.126e+05	2.652e+06	
550	63.94	765.99-1108.06	180.38	-522.45	-868.63	1.619e+06	-4.168e+06	-1.402e+06	1.146e+06	2.891e+06	
549	62.50	882.37-966.31	-214.32	130.38	-908.13	3.197e+06	-2.551e+06	7.506e+05	-1.040e+05	2.842e+06	
495	2530	44.07	577.14-618.30	-83.12	41.97	-594.44	2.187e+06	-1.915e+06	5.088e+05	-2.366e+05	2.017e+06
529	45.10	393.65-800.25	12.69	-419.29	-556.51	1.089e+06	-3.021e+06	-1.190e+06	7.429e+05	2.043e+06	
550	49.50	565.73-888.85	140.41	-463.53	-661.63	1.126e+06	-3.335e+06	-1.171e+06	-1.038e+06	2.230e+06	
549	48.01	650.01-774.57	-163.20	38.64	-705.10	2.334e+06	-2.085e+06	4.849e+05	-2.363e+05	2.180e+06	
496	1565	63.04	911.85-942.89	-203.91	172.87	908.04	3.511e+06	-2.264e+06	9.466e+05	3.007e+05	-2.869e+06
564	63.66	807.06-1079.71	205.74	-478.39	879.19	1.893e+06	-3.905e+06	-1.255e+06	7.568e+05	-2.889e+06	
515	58.36	585.03-965.45	54.67	-435.09	735.54	1.795e+06	-3.584e+06	-1.282e+06	-5.058e+05	-2.661e+06	
514	57.83	812.43-726.21	-73.90	160.12	760.37	3.244e+06	-2.117e+06	9.693e+05	1.575e+05	-2.650e+06	
496	2565	48.35	672.14-756.00	-155.22	71.36	705.03	2.574e+06	-1.863e+06	6.356e+05	7.519e+04	-2.201e+06
564	49.22	596.89-866.61	159.89	-429.61	669.76	1.336e+06	-3.132e+06	-1.058e+06	-7.383e+05	-2.228e+06	
515	45.07	423.03-775.61	36.69	-389.27	560.20	1.277e+06	-2.862e+06	-1.078e+06	-5.069e+05	-2.050e+06	
514	44.38	597.30-590.92	-62.21	68.59	590.50	2.390e+06	-1.733e+06	6.541e+05	3377.93	-2.035e+06	
497	1564	63.77	735.50-1131.70	-262.84	-133.36	931.35	1.835e+06	-3.970e+06	-1.502e+05	-1.985e+06	-2.753e+06
563	68.22	623.24-1259.92	137.09	-773.76	824.11	2.520e+05	-5.575e+06	-2.298e+06	-3.024e+06	-2.891e+06	
516	60.84	363.40-1141.28	-90.59	-687.29	690.65	3.668e+05	-4.903e+06	-2.274e+06	-2.262e+06	-2.635e+06	
515	58.24	622.68-941.43	-217.09	-101.66	779.93	1.846e+06	-3.527e+06	-7.199e+04	-1.609e+06	-2.574e+06	
497	2564	49.33	540.81-905.57	-200.55	-164.21	722.96	1.291e+06	-3.182e+06	-2.080e+05	-1.683e+06	-2.112e+06
563	53.09	459.65-1009.39	107.09	-656.83	627.39	7.979e+04	-4.423e+06	-1.861e+06	-2.483e+06	-2.230e+06	
516	47.22	254.71-913.03	-75.05	-583.27	525.67	1.804e+05	-3.879e+06	-1.840e+06	-1.858e+06	-2.030e+06	
515	44.97	453.30-758.44	-172.36	-132.78	605.54	1.316e+06	-2.819e+06	-1.469e+05	-1.355e+06	-1.977e+06	
498	1563	68.42	538.35-1293.72	-312.94	-442.42	913.74	1.989e+05	-5.639e+06	-1.239e+06	-4.201e+06	-2.515e+06
562	75.45	424.35-1408.80	59.17	-1043.62	732.17	-1.274e+06	-7.142e+06	-3.241e+06	-5.175e+06	-2.770e+06	
517	64.67	127.84-1278.76	-233.65	-917.26	614.65	-1.026e+06	-6.074e+06	-3.167e+06	-3.933e+06	-2.495e+06	
516	60.53	406.66-1125.41	-351.93	-366.82	766.00	4.100e+05	-4.842e+06	-1.113e+06	-3.320e+06	-2.383e+06	
498	2563	53.27	393.56-1034.60	-239.09	-401.94	709.42	3.973e+04	-4.473e+06	-1.046e+06	-3.388e+06	-1.929e+06
562	58.92	310.83-1128.09	47.15	-864.41	556.67	-1.088e+06	-5.634e+06	-2.586e+06	-4.137e+06	-2.137e+06	
517	50.37	75.97-1021.24	-185.10	-760.17	467.21	-8.890e+05	-4.782e+06	-2.528e+06	-3.143e+06	-1.922e+06	
516	46.98	289.19-902.03	-276.08	-336.75	594.84	2.136e+05	-3.832e+06	-9.474e+05	-2.671e+06	-1.830e+06	
499	1562	75.70	331.78-1424.73	-352.36	-740.59	856.53	-1.320e+06	-7.203e+06	-2.274e+06	-6.249e+06	-2.168e+06
561	85.82	222.59-1522.46	-23.87	-1275.99	607.74	-2.621e+06	-8.539e+06	-4.047e+06	-7.113e+06	-2.531e+06	
518	70.30	-108.78-1374.26	-368.41	-1114.63	511.02	-2.313e+06	-7.057e+06	-3.926e+06	-5.443e+06	-2.248e+06	
517	64.24	174.57-1271.46	-473.07	-623.81	719.07	-9.915e+05	-6.013e+06	-2.107e+06	-4.898e+06	-2.087e+06	





499 2562 59.13	239.22-1139.94-269.41	-631.31	665.42-1.123e+06-5.682e+06-1.842e+06-4.963e+06-1.661e+06
561 67.60	159.90-1219.78 -16.72	-1043.16	460.96-2.118e+06-6.715e+06-3.205e+06-5.628e+06-1.953e+06
518 55.26	-103.12-1097.63-288.76	-911.99	387.50-1.877e+06-5.540e+06-3.112e+06-4.305e+06-1.732e+06
517 50.04	112.96-1016.66-369.27	-534.44	558.74-8.624e+05-4.735e+06-1.712e+06-3.886e+06-1.603e+06
500 1560 97.98	31.94-1600.14-1460.76	-107.45	-456.13-3.733e+06-9.705e+06-8.755e+06-4.683e+06-2.184e+06
519 78.46	-331.50-1427.88-1270.67	-488.71	-384.25-3.424e+06-7.825e+06-6.727e+06-4.522e+06-1.904e+06
518 69.69	-61.27-1375.19 -861.27	-575.19	-641.20-2.287e+06-7.000e+06-6.275e+06-3.013e+06-1.701e+06
561 86.49	129.50-1522.89-1014.74	-378.65	-762.52-2.659e+06-8.593e+06-8.039e+06-3.213e+06-1.727e+06
500 2560 77.03	17.56-1283.86-1185.29	-81.01	-344.33-2.970e+06-7.616e+06-6.891e+06-3.695e+06-1.686e+06
519 61.63	-270.83-1142.49-1032.02	-381.29	-289.97-2.729e+06-6.133e+06-5.292e+06-3.570e+06-1.468e+06
518 54.80	-65.78-1099.14 -717.10	-447.82	-498.83-1.857e+06-5.496e+06-4.944e+06-2.409e+06-1.305e+06
561 68.12	88.37-1220.20 -842.19	-289.63	-593.09-2.147e+06-6.757e+06-6.340e+06-2.564e+06-1.322e+06
501 1559107.52	-132.08-1644.83-1589.37	-187.54	-284.30-4.567e+06-1.059e+07-1.003e+07-5.123e+06-1.743e+06
520 84.91	-521.96-1445.42-1378.07	-589.31	-240.12-4.292e+06-8.366e+06-7.730e+06-4.928e+06-1.479e+06
519 77.94	-286.64-1435.64-1068.22	-654.06	-535.88-3.407e+06-7.776e+06-7.390e+06-3.794e+06-1.240e+06
560 98.54	-53.00-1589.68-1252.28	-390.40	-636.11-3.763e+06-9.750e+06-9.494e+06-4.018e+06-1.210e+06
501 2559 84.42	-104.47-1322.37-1284.22	-142.62	-212.15-3.608e+06-8.299e+06-7.873e+06-4.033e+06-1.347e+06
520 66.64	-412.96-1160.36-1114.64	-458.68	-179.11-3.395e+06-6.551e+06-6.064e+06-3.882e+06-1.140e+06
519 61.23	-235.89-1148.89-876.30	-508.49	-417.82-2.716e+06-6.095e+06-5.802e+06-3.010e+06-9.512e+05
560 77.46	-47.20-1276.40-1024.92	-298.67	-495.85-2.992e+06-7.651e+06-7.459e+06-3.183e+06-9.246e+05
502 1558113.69	-252.92-1663.28-1656.22	-259.99	-99.56-5.090e+06-1.115e+07-1.089e+07-5.349e+06-1.226e+06
521 89.05	-656.17-1441.39-1432.10	-665.45	-84.87-4.853e+06-8.684e+06-8.409e+06-5.129e+06-9.895e+05
520 84.53	-484.49-1456.91-1235.53	-705.87	-407.76-4.282e+06-8.329e+06-8.195e+06-4.417e+06-7.259e+05
559107.92	-198.84-1630.26-1442.84	-386.26	-482.86-4.588e+06-1.062e+07-1.055e+07-4.656e+06-6.399e+05
502 2558 89.19	-194.05-1339.94-1335.65	-198.35	-70.04-4.008e+06-8.731e+06-8.532e+06-4.207e+06-9.492e+05
521 69.85	-511.72-1161.74-1156.21	-517.25	-59.68-3.825e+06-6.798e+06-6.586e+06-4.037e+06-7.641e+05
520 66.35	-384.16-1169.17-1004.99	-548.34	-319.26-3.388e+06-6.523e+06-6.421e+06-3.489e+06-5.555e+05
559 84.73	-154.95-1312.04-1171.51	-295.49	-377.97-3.623e+06-8.323e+06-8.272e+06-3.674e+06-4.861e+05
503 1557116.05	-315.21-1664.30-1658.27	-321.24	89.97-5.281e+06-1.136e+07-1.129e+07-5.353e+06-6.564e+05
522 90.53	-705.91-1437.98-1430.29	-713.60	74.61-5.059e+06-8.791e+06-8.734e+06-5.117e+06-4.578e+05
521 88.84	-632.84-1450.97-1355.71	-728.10	-262.41-4.849e+06-8.663e+06-8.655e+06-4.857e+06-1.800e+05
558113.91	-291.47-1652.41-1577.99	-365.89	-309.43-5.101e+06-1.116e+07-1.116e+07-5.101e+06-4.174e+04
503 2557 91.01	-240.23-1342.46-1337.23	-245.46	75.75-4.154e+06-8.894e+06-8.838e+06-4.210e+06-5.110e+05
522 71.00	-547.74-1161.35-1154.82	-554.28	62.99-3.983e+06-6.880e+06-6.836e+06-4.027e+06-3.551e+05
521 69.69	-494.11-1168.78-1097.45	-565.44	-207.46-3.822e+06-6.782e+06-6.775e+06-3.828e+06-1.356e+05
558 89.36	-222.98-1332.30-1275.47	-279.81	-244.56-4.016e+06-8.744e+06-8.744e+06-4.016e+06-2.598e+04
504 1556114.46	-308.94-1654.72-1595.30	-368.35	276.46-5.134e+06-1.121e+07-1.121e+07-5.134e+06-5.900e+04
523 89.25	-656.53-1447.54-1372.57	-731.50	231.69-4.891e+06-8.694e+06-8.691e+06-4.893e+06-9.316e+04
522 90.52	-703.90-1439.06-1423.31	-719.65	-106.44-5.059e+06-8.789e+06-8.751e+06-5.097e+06-3.739e+05
557116.07	-318.35-1663.06-1651.59	-329.82	-123.66-5.282e+06-1.136e+07-1.131e+07-5.334e+06-5.595e+05
504 2556 89.78	-236.06-1334.44-1288.79	-281.70	219.20-4.042e+06-8.781e+06-8.780e+06-4.042e+06-5.153e+04
523 70.01	-511.62-1166.85-1110.42	-568.05	183.83-3.854e+06-6.805e+06-6.804e+06-3.855e+06-6.874e+04
522 70.99	-546.25-1162.13-1149.44	-558.93	-87.48-3.983e+06-6.879e+06-6.850e+06-4.012e+06-2.905e+05
557 91.03	-242.57-1341.58-1332.09	-252.06	-101.67-4.155e+06-8.895e+06-8.855e+06-4.196e+06-4.365e+05
505 1555109.01	-234.26-1634.96-1470.20	-399.02	451.26-4.656e+06-1.071e+07-1.067e+07-4.704e+06-5.408e+05
524 85.31	-523.50-1456.23-1261.54	-718.19	379.06-4.363e+06-8.389e+06-8.284e+06-4.467e+06-6.398e+05



523 89.43	-676.83-1439.21-1435.40	-680.63	53.74-4.893e+06-8.711e+06-8.480e+06-5.125e+06-9.113e+05
556114.27	-276.06-1663.77-1660.55	-279.29	66.85-5.125e+06-1.120e+07-1.098e+07-5.346e+06-1.137e+06
505 2555 85.57	-181.57-1316.28-1192.57	-305.29	353.67-3.675e+06-8.396e+06-8.360e+06-3.711e+06-4.098e+05
524 66.96	-413.41-1169.42-1025.01	-557.81	297.19-3.449e+06-6.569e+06-6.490e+06-3.528e+06-4.892e+05
523 70.15	-526.90-1160.77-1158.75	-528.92	35.74-3.856e+06-6.819e+06-6.641e+06-4.034e+06-7.039e+05
556 89.64	-211.40-1340.77-1338.98	-213.19	44.88-4.035e+06-8.770e+06-8.600e+06-4.205e+06-8.804e+05
506 1554100.10	-101.29-1598.78-1288.24	-411.83	607.12-3.867e+06-9.888e+06-9.674e+06-4.081e+06-1.116e+06
525 79.03	-334.53-1441.61-1101.92	-674.22	510.56-3.525e+06-7.865e+06-7.530e+06-3.859e+06-1.158e+06
524 85.66	-559.32-1444.71-1391.34	-612.69	210.74-4.371e+06-8.423e+06-7.853e+06-4.941e+06-1.409e+06
555108.64	-171.51-1649.15-1604.35	-216.30	253.34-4.637e+06-1.069e+07-1.019e+07-5.136e+06-1.665e+06
506 2554 78.68	-83.69-1284.05-1052.60	-315.14	473.56-3.071e+06-7.758e+06-7.597e+06-3.232e+06-8.522e+05
525 62.08	-272.15-1154.07-902.23	-523.99	398.34-2.807e+06-6.164e+06-5.910e+06-3.060e+06-8.876e+05
524 67.23	-440.85-1160.67-1124.86	-476.66	156.50-3.456e+06-6.595e+06-6.158e+06-3.892e+06-1.087e+06
555 85.28	-134.20-1326.30-1295.76	-164.74	188.34-3.661e+06-8.374e+06-7.991e+06-4.044e+06-1.287e+06
507 1553 88.43	74.12-1537.67-1057.44	-406.11	737.16-2.801e+06-8.771e+06-8.279e+06-3.293e+06-1.642e+06
526 70.99	-112.90-1389.25-900.72	-601.44	620.38-2.440e+06-7.119e+06-6.463e+06-3.096e+06-1.624e+06
525 79.53	-378.66-1433.06-1293.03	-518.69	357.83-3.540e+06-7.912e+06-6.898e+06-4.554e+06-1.845e+06
554 99.57	-18.69-1610.26-1485.45	-143.50	427.86-3.838e+06-9.846e+06-8.969e+06-4.715e+06-2.121e+06
507 2553 69.63	46.33-1232.14 -875.06	-310.74	573.59-2.256e+06-6.895e+06-6.525e+06-2.625e+06-1.257e+06
526 55.81	-105.10-1110.36-747.46	-468.00	482.82-1.974e+06-5.588e+06-5.089e+06-2.473e+06-1.247e+06
525 62.46	-306.46-1147.13-1049.23	-404.35	269.65-2.818e+06-6.200e+06-5.424e+06-3.595e+06-1.422e+06
554 78.27	-20.80-1292.22-1204.30	-108.73	322.58-3.050e+06-7.725e+06-7.056e+06-3.719e+06-1.638e+06
508 1527 64.74	123.64-1293.33-502.83	-666.86	-703.72-1.177e+06-6.161e+06-2.210e+06-5.129e+06-2.020e+06
526 71.58	-160.23-1387.22-402.58	-1144.87	-488.49-2.464e+06-7.174e+06-3.981e+06-5.657e+06-2.201e+06
553 87.78	166.28-1539.26 -63.81	-1309.17	-582.65-2.763e+06-8.718e+06-4.101e+06-7.381e+06-2.485e+06
552 76.85	275.06-1445.02-381.89	-788.06	-835.72-1.503e+06-7.414e+06-2.374e+06-6.543e+06-2.095e+06
508 2527 50.45	74.05-1033.77 -392.14	-567.57	-546.92-1.005e+06-4.850e+06-1.791e+06-4.063e+06-1.551e+06
526 56.27	-142.26-1108.04-315.04	-935.26	-370.16-1.993e+06-5.630e+06-3.154e+06-4.469e+06-1.696e+06
553 69.12	117.06-1233.19 -47.43	-1068.70	-441.64-2.227e+06-6.854e+06-3.247e+06-5.834e+06-1.918e+06
552 60.05	196.04-1156.00-292.11	-667.85	-649.40-1.262e+06-5.846e+06-1.918e+06-5.190e+06-1.605e+06
509 1528 60.84	360.51-1153.76-383.04	-410.22	-757.01 1.927e+05-5.019e+06-1.240e+06-3.587e+06-2.327e+06
527 65.17	76.72-1299.44 -269.62	-953.10	-597.22-1.211e+06-6.220e+06-3.246e+06-4.185e+06-2.461e+06
552 76.60	367.81-1431.71 19.07	-1082.97	-711.30-1.457e+06-7.354e+06-3.320e+06-5.491e+06-2.741e+06
551 69.33	485.75-1317.84-340.64	-491.45	-898.64-2.785e+04-5.879e+06-1.364e+06-4.543e+06-2.456e+06
509 2528 47.25	253.89-924.04 -300.00	-370.15	-587.92 4.691e+04-3.969e+06-1.045e+06-2.877e+06-1.787e+06
527 50.77	36.94-1037.45 -212.76	-787.75	-453.79-1.031e+06-4.895e+06-2.589e+06-3.337e+06-1.896e+06
552 59.84	267.73-1146.12 16.32	-894.70	-540.61-1.228e+06-5.799e+06-2.647e+06-4.380e+06-2.115e+06
551 54.01	353.50-1053.56-260.37	-439.69	-697.80-1.334e+05-4.659e+06-1.141e+06-3.651e+06-1.883e+06
510 1529 58.20	585.01-974.33 -247.14	-142.17	-777.90 1.600e+06-3.733e+06-2.281e+05-1.904e+06-2.531e+06
528 61.16	316.75-1168.46-125.51	-726.20	-679.16 1.498e+05-5.079e+06-2.383e+06-2.546e+06-2.613e+06
551 69.11	571.82-1287.01 101.66	-816.85	-808.02 2.476e+04-5.814e+06-2.407e+06-3.382e+06-2.879e+06
550 64.08	692.20-1156.91-283.94	-180.77	-923.11 1.562e+06-4.233e+06-3.067e+05-2.365e+06-2.708e+06
510 2529 44.98	424.48-783.91 -195.46	-163.97	-603.99 1.128e+06-2.977e+06-2.670e+05-1.583e+06-1.944e+06
528 47.50	219.04-934.16 -101.90	-613.22	-516.82 1.388e+04-4.015e+06-1.924e+06-2.077e+06-2.013e+06
551 53.83	420.47-1030.61 79.86	-690.00	-615.01-9.375e+04-4.608e+06-1.944e+06-2.758e+06-2.220e+06
550 49.63	507.94-925.40 -216.76	-200.70	-716.63 1.083e+06-3.386e+06-3.284e+05-1.975e+06-2.077e+06



511 1577 71.33	1152.42-1680.03-392.26	-135.34	1410.39	1.730e+06-4.841e+06-3.487e+05-2.762e+06-3.056e+06
578 79.44	1282.91-1753.20585.21	-1055.50	1277.31	6.508e+04-6.978e+06-2.203e+06-4.710e+06-3.291e+06
563 65.96	450.81-1305.83 -80.47	-774.55	806.85	1.593e+05-5.784e+06-2.652e+06-2.973e+06-2.967e+06
564 60.92	817.86-1069.67-164.51	-87.30	942.97	2.012e+06-3.884e+06 4.690e+04-1.920e+06-2.779e+06
511 2577 55.43	858.84-1328.46-288.54	-181.08	1092.33	1.187e+06-3.904e+06-3.571e+05-2.359e+06-2.340e+06
578 62.15	973.84-1399.37 463.36	-888.90	975.13	-7.508e+04-5.565e+06-1.783e+06-3.857e+06-2.542e+06
563 51.33	320.44-1041.48 -64.87	-656.17	613.43	6301.46-4.584e+06-2.139e+06-2.438e+06-2.290e+06
564 47.06	604.07-861.10 -129.51	-127.52	732.58	1.424e+06-3.115e+06-6.313e+04-1.628e+06-2.130e+06
512 1578 82.05	943.58-1795.47-295.67	-556.22	1363.32	-1.888e+05-7.379e+06-1.485e+06-6.083e+06-2.764e+06
579 94.13	1126.10-1930.72610.27	-1414.89	1144.86	-1.594e+06-9.513e+06-3.211e+06-7.896e+06-3.193e+06
562 72.44	205.32-1424.10-194.97	-1023.82	701.43	-1.404e+06-7.315e+06-3.639e+06-5.079e+06-2.866e+06
563 64.39	616.86-1266.86-271.91	-378.09	940.37	3.121e+05-5.525e+06-1.122e+06-4.091e+06-2.513e+06
512 2578 64.26	706.54-1425.61-214.24	-504.83	1056.12	-2.676e+05-5.877e+06-1.231e+06-4.914e+06-2.116e+06
579 73.83	859.28-1542.00 482.64	-1165.35	873.25	-1.336e+06-7.531e+06-2.559e+06-6.308e+06-2.466e+06
562 56.54	135.29-1136.15-152.94	-847.92	532.34	-1.191e+06-5.766e+06-2.898e+06-4.059e+06-2.212e+06
563 50.06	452.22-1015.55-212.13	-351.20	730.58	1.218e+05-4.382e+06-9.622e+05-3.298e+06-1.925e+06
513 1579 97.29	738.17-1892.42-193.39	-960.86	1258.08	-1.801e+06-9.907e+06-2.555e+06-9.154e+06-2.354e+06
580115.81	952.59-2069.26 605.14	-1721.81	963.96	-2.961e+06-1.188e+07-4.083e+06-1.075e+07-2.957e+06
561 81.45	-37.71-1502.26 -303.66	-1236.30	564.60	-2.799e+06-8.650e+06-4.471e+06-6.978e+06-2.643e+06
562 70.38	393.05-1423.99-370.06	-660.88	896.81	-1.291e+06-7.050e+06-2.241e+06-6.100e+06-2.137e+06
513 2579 76.31	557.00-1508.66-135.57	-816.10	975.17	-1.493e+06-7.836e+06-2.054e+06-7.276e+06-1.800e+06
580 91.44	731.37-1654.12 478.69	-1401.44	734.10	-2.378e+06-9.359e+06-3.230e+06-8.507e+06-2.285e+06
561 64.11	-47.34-1200.58 -236.55	-1011.37	427.09	-2.260e+06-6.797e+06-3.539e+06-5.519e+06-2.041e+06
562 54.92	282.92-1139.29-287.63	-568.73	697.08	-1.106e+06-5.560e+06-1.823e+06-4.843e+06-1.637e+06
514 1581135.99	773.43-2164.48-1963.38	572.33	-741.88	-4.046e+06-1.390e+07-1.317e+07-4.784e+06-2.594e+06
560 92.19	-259.47-1544.30-1402.67	-401.10	-402.39	-3.964e+06-9.737e+06-8.585e+06-5.116e+06-2.307e+06
561 79.02	158.88-1536.39-923.03	-454.48	-814.62	-2.723e+06-8.399e+06-7.856e+06-3.265e+06-1.669e+06
580118.69	554.54-1973.57-1332.33	-86.71	-1099.97	-3.127e+06-1.223e+07-1.184e+07-3.516e+06-1.841e+06
514 2581107.03	598.60-1732.41-1587.27	453.45	-563.26	-3.206e+06-1.092e+07-1.036e+07-3.769e+06-2.006e+06
560 72.45	-212.86-1237.99-1139.35	-311.50	-302.31	-3.153e+06-7.637e+06-6.755e+06-4.035e+06-1.782e+06
561 62.23	105.91-1228.87-770.39	-352.57	-633.85	-2.203e+06-6.603e+06-6.194e+06-2.611e+06-1.277e+06
580 93.66	423.98-1579.32-1101.84	-53.50	-853.55	-2.505e+06-9.633e+06-9.344e+06-2.794e+06-1.406e+06
515 1582151.58	601.61-2216.09-2128.78	514.30	-488.26	-4.844e+06-1.547e+07-1.503e+07-5.284e+06-2.117e+06
559100.49	-436.91-1561.04-1515.31	-482.64	-222.08	-4.844e+06-1.054e+07-9.834e+06-5.546e+06-1.872e+06
560 90.14	-71.21-1602.68-1152.56	-521.33	-697.67	-3.917e+06-9.522e+06-9.285e+06-4.154e+06-1.128e+06
581138.36	410.49-2043.32-1654.41	21.58	-896.14	-4.173e+06-1.419e+07-1.404e+07-4.331e+06-1.246e+06
515 2582119.06	470.84-1776.52-1714.49	408.82	-368.17	-3.817e+06-1.213e+07-1.179e+07-4.153e+06-1.639e+06
559 78.88	-343.88-1256.34-1225.99	-374.23	-163.61	-3.826e+06-8.255e+06-7.716e+06-4.365e+06-1.448e+06
560 70.87	-67.59-1283.35 -946.95	-403.99	-543.89	-3.117e+06-7.471e+06-7.294e+06-3.294e+06-8.605e+05
581108.85	320.48-1640.28-1349.60	29.80	-696.75	-3.304e+06-1.115e+07-1.103e+07-3.420e+06-9.481e+05
516 1574 89.62	1624.10-1188.32-601.94	1037.73	1142.49	8.849e+06 1.321e+06 2.969e+06 7.201e+06-3.113e+06
575 78.85	1574.64-1073.18306.35	195.11	1322.74	6.789e+06-1.484e+05 1.239e+06 5.402e+06-2.775e+06
566 62.64	1058.32-730.58 253.61	74.13	889.94	5.100e+06-6.603e+05 8.121e+05 3.628e+06-2.513e+06
567 69.23	1209.06-316.06 185.16	707.83	716.38	6.807e+06 1.078e+06 3.304e+06 4.581e+06-2.792e+06
516 2574 67.57	1197.95-926.50-449.83	721.28	886.25	6.597e+06 9.034e+05 2.195e+06 5.305e+06-2.384e+06
575 59.63	1174.87-852.90 248.85	73.11	1010.07	5.027e+06-2.412e+05 8.642e+05 3.921e+06-2.145e+06



566	47.72	778.75-589.97	192.12	-3.34	677.35	3.792e+06	-6.271e+05	5.255e+05	2.639e+06	-1.940e+06	
567	52.48	896.06-272.48	139.46	484.12	558.28	5.098e+06	7.173e+05	2.442e+06	3.373e+06	-2.140e+06	
517	1576	69.28	1347.17-1545.17	-482.57	284.57	1394.37	3.958e+06	-2.482e+06	8.113e+05	6.650e+05	-3.219e+06
577	70.12	1414.18-1544.83	527.68	-658.33	1355.46	2.038e+06	-4.467e+06	-1.097e+06	-1.331e+06	-3.251e+06	
564	61.60	683.00-1148.10	34.52	-499.61	875.73	1.820e+06	-4.120e+06	-1.548e+06	-7.521e+05	-2.943e+06	
565	60.89	986.08-839.09	-51.33	198.33	904.01	3.723e+06	-2.189e+06	1.217e+06	3.173e+05	-2.922e+06	
517	2576	53.07	1000.52-1216.60	-358.01	141.93	1080.01	2.876e+06	-2.063e+06	5.353e+05	2.772e+05	-2.466e+06
577	54.35	1068.08-1232.35	419.11	-583.38	1035.25	1.421e+06	-3.612e+06	-9.327e+05	-1.258e+06	-2.511e+06	
564	47.66	495.80-916.90	23.58	-444.68	666.42	1.279e+06	-3.299e+06	-1.290e+06	-7.298e+05	-2.272e+06	
565	46.66	730.70-680.96	-42.46	92.19	702.61	2.735e+06	-1.806e+06	8.366e+05	9.273e+04	-2.240e+06	
518	1573	106.98	1716.72-948.69	-566.57	1334.60	934.07	1.107e+07	2.662e+06	3.778e+06	9.951e+06	-2.852e+06
574	92.59	1597.69-817.14	182.16	598.39	1189.34	9.235e+06	1.528e+06	2.324e+06	8.440e+06	-2.345e+06	
567	67.17	1193.41-485.89	353.60	353.93	839.65	6.541e+06	9.721e+05	1.934e+06	5.579e+06	-2.105e+06	
568	75.31	1258.65-50.12	292.35	916.18	575.27	8.053e+06	2.466e+06	4.079e+06	6.440e+06	-2.532e+06	
518	2573	79.96	1262.38-735.36	-422.62	949.64	725.93	8.292e+06	1.946e+06	2.817e+06	7.421e+06	-2.184e+06
574	69.80	1183.04-646.39	153.32	383.33	907.46	6.892e+06	1.065e+06	1.699e+06	6.258e+06	-1.814e+06	
567	50.93	879.76-398.84	269.03	211.89	638.66	4.895e+06	6.337e+05	1.389e+06	4.140e+06	-1.627e+06	
568	56.98	930.02-63.72	221.92	644.38	449.73	6.051e+06	1.789e+06	3.039e+06	4.802e+06	-1.940e+06	
519	1584	165.59	339.60-2208.13	-2206.19	337.66	70.17	-5.536e+06	-1.688e+07	-1.680e+07	-5.609e+06	9.085e+05
557	107.36	-556.89-1587.82	-1562.00	-582.71	161.12	-5.592e+06	-1.117e+07	-1.106e+07	-5.704e+06	7.828e+05	
558	104.86	-447.63-1616.80	-1475.15	-589.27	-381.50	-5.383e+06	-1.093e+07	-1.093e+07	-5.384e+06	-7.615e+04	
583	162.57	293.11-2160.81	-2097.90	230.20	-387.83	-5.391e+06	-1.659e+07	-1.659e+07	-5.391e+06	-8.638e+04	
519	2584	129.85	274.78-1775.89	-1774.05	272.94	61.39	-4.346e+06	-1.322e+07	-1.316e+07	-4.403e+06	7.093e+05
557	84.19	-430.51-1282.61	-1261.92	-451.20	131.16	-4.400e+06	-8.744e+06	-8.657e+06	-4.487e+06	6.096e+05	
558	82.26	-349.35-1302.01	-1195.11	-456.25	-300.68	-4.240e+06	-8.560e+06	-8.559e+06	-4.241e+06	-6.608e+04	
583	127.52	238.73-1739.20	-1690.75	190.28	-305.74	-4.235e+06	-1.300e+07	-1.299e+07	-4.236e+06	-7.689e+04	
520	1585	163.23	279.39-2165.89	-2114.30	227.80	351.40	-5.417e+06	-1.665e+07	-1.665e+07	-5.421e+06	2.308e+05
556	105.45	-477.41-1612.60	-1493.71	-596.30	347.61	-5.422e+06	-1.098e+07	-1.098e+07	-5.428e+06	1.758e+05	
557	107.29	-548.31-1592.04	-1553.68	-586.66	-196.36	-5.589e+06	-1.116e+07	-1.108e+07	-5.676e+06	-6.881e+05	
584	165.68	327.59-2204.07	-2199.67	323.20	-105.34	-5.541e+06	-1.689e+07	-1.684e+07	-5.593e+06	-7.665e+05	
520	2585	128.03	228.36-1743.29	-1703.36	188.44	277.73	-4.255e+06	-1.304e+07	-1.304e+07	-4.259e+06	1.880e+05
556	82.72	-371.63-1299.41	-1209.39	-461.65	274.62	-4.270e+06	-8.602e+06	-8.597e+06	-4.274e+06	1.427e+05	
557	84.14	-424.11-1285.65	-1255.52	-454.24	-158.27	-4.398e+06	-8.738e+06	-8.671e+06	-4.465e+06	-5.368e+05	
584	129.93	265.66-1772.88	-1769.03	261.81	-88.45	-4.351e+06	-1.323e+07	-1.319e+07	-4.391e+06	-6.001e+05	
521	1586	154.71	282.01-2111.68	-1940.06	110.38	617.55	-4.989e+06	-1.581e+07	-1.579e+07	-5.009e+06	-4.574e+05
555	100.08	-325.28-1626.46	-1367.62	-584.12	519.42	-4.892e+06	-1.048e+07	-1.044e+07	-4.927e+06	-4.385e+05	
556	106.12	-559.03-1571.76	-1571.75	-559.04	-3.37	-5.428e+06	-1.106e+07	-1.076e+07	-5.731e+06	-1.271e+06	
585	162.49	416.34-2227.43	-2215.07	403.98	180.34	-5.380e+06	-1.656e+07	-1.638e+07	-5.562e+06	-1.415e+06	
521	2586	121.47	227.64-1698.85	-1569.33	98.11	482.45	-3.928e+06	-1.240e+07	-1.238e+07	-3.942e+06	-3.414e+05
555	78.57	-258.50-1306.18	-1112.40	-452.28	406.78	-3.864e+06	-8.208e+06	-8.183e+06	-3.889e+06	-3.298e+05	
556	83.24	-432.87-1269.53	-1269.42	-432.99	-9.81	-4.274e+06	-8.658e+06	-8.425e+06	-4.508e+06	-9.848e+05	
585	127.47	332.11-1789.04	-1780.88	323.95	131.31	-4.227e+06	-1.297e+07	-1.283e+07	-4.368e+06	-1.099e+06	
522	1587	140.52	350.73-2050.53	-1690.43	-9.37	857.34	-4.263e+06	-1.440e+07	-1.428e+07	-4.389e+06	-1.125e+06
554	91.65	-125.37-1610.24	-1188.92	-546.69	669.39	-4.029e+06	-9.661e+06	-9.465e+06	-4.225e+06	-1.032e+06	
555	101.45	-473.65-1562.13	-1528.38	-507.40	188.66	-4.913e+06	-1.062e+07	-9.984e+06	-5.550e+06	-1.798e+06	
586	153.18	546.71-2220.27	-2142.78	469.22	456.52	-4.911e+06	-1.562e+07	-1.523e+07	-5.300e+06	-2.004e+06	



522 2587110.52	275.15-1646.46-1377.31	6.00	666.90-3.372e+06-1.131e+07-1.122e+07-3.465e+06-8.548e+05
554 72.04	-108.74-1289.69-974.95	-423.48	522.14-3.203e+06-7.579e+06-7.432e+06-3.349e+06-7.865e+05
555 79.62	-371.27-1258.05-1236.06	-393.26	137.90-3.879e+06-8.321e+06-7.832e+06-4.369e+06-1.391e+06
586120.29	428.99-1780.12-1725.27	374.14	343.76-3.868e+06-1.225e+07-1.195e+07-4.166e+06-1.552e+06
523 1588121.55	479.72-1982.31-1376.54	-126.06	1060.41-3.250e+06-1.251e+07-1.217e+07-3.590e+06-1.742e+06
553 80.84	101.02-1552.06-965.55	-485.50	790.92-2.873e+06-8.574e+06-8.096e+06-3.352e+06-1.580e+06
554 93.59	-310.17-1549.17-1425.44	-433.90	371.47-4.071e+06-9.866e+06-8.796e+06-5.140e+06-2.248e+06
587138.29	704.46-2174.36-1986.29	516.39	711.37-4.143e+06-1.413e+07-1.345e+07-4.819e+06-2.508e+06
523 2588 95.87	367.04-1586.66-1135.85	-83.76	823.11-2.598e+06-9.848e+06-9.595e+06-2.850e+06-1.330e+06
553 63.64	61.78-1241.31 -803.12	-376.41	615.63-2.318e+06-6.738e+06-6.379e+06-2.677e+06-1.208e+06
554 73.54	-251.08-1242.52-1156.88	-336.72	278.52-3.235e+06-7.737e+06-6.918e+06-4.053e+06-1.737e+06
587108.80	545.90-1740.37-1604.89	410.42	539.79-3.280e+06-1.110e+07-1.058e+07-3.796e+06-1.940e+06
524 1552 71.36	336.57-1447.01-403.07	-707.36	-878.72-1.483e+06-7.255e+06-2.346e+06-6.392e+06-2.058e+06
553 83.19	-95.51-1513.57 -341.57	-1267.51	-537.01-2.946e+06-8.817e+06-4.520e+06-7.244e+06-2.600e+06
588118.76	875.43-2084.31 543.70	-1752.58	-933.70-3.089e+06-1.217e+07-4.140e+06-1.111e+07-2.904e+06
589 99.63	655.26-1901.85-234.35	-1012.24	-1217.96-1.961e+06-1.025e+07-2.647e+06-9.559e+06-2.283e+06
524 2552 55.71	239.77-1157.29-313.00	-604.52	-683.16-1.253e+06-5.719e+06-1.904e+06-5.069e+06-1.576e+06
553 65.46	-91.23-1209.86 -265.69	-1035.40	-405.86-2.373e+06-6.927e+06-3.576e+06-5.723e+06-2.008e+06
588 93.72	672.32-1666.01 431.43	-1425.12	-710.81-2.475e+06-9.582e+06-3.273e+06-8.784e+06-2.245e+06
589 78.55	493.76-1516.45-167.07	-855.62	-944.30-1.615e+06-8.098e+06-2.125e+06-7.588e+06-1.746e+06
525 1551 65.08	566.72-1295.37-303.30	-425.36	-929.04 7.492e+04-5.757e+06-1.252e+06-4.430e+06-2.445e+06
552 73.41	146.35-1442.24-234.53	-1061.36	-678.23-1.594e+06-7.517e+06-3.716e+06-5.395e+06-2.840e+06
589 96.49	1046.75-1948.63549.77	-1451.65	-1114.30-1.757e+06-9.857e+06-3.292e+06-8.321e+06-3.175e+06
590 84.35	859.48-1802.40-329.90	-613.03	-1323.39-3.988e+05-7.766e+06-1.601e+06-6.564e+06-2.722e+06
525 2551 50.64	413.90-1037.75-236.25	-387.59	-721.87-5.962e+04-4.562e+06-1.062e+06-3.559e+06-1.873e+06
552 57.32	90.33-1150.51 -183.36	-876.82	-514.49-1.337e+06-5.922e+06-2.957e+06-4.301e+06-2.192e+06
589 76.15	798.54-1556.07 436.10	-1193.63	-849.73-1.459e+06-7.797e+06-2.621e+06-6.636e+06-2.452e+06
590 66.08	642.35-1431.45-240.56	-548.54	-1025.40-4.264e+05-6.177e+06-1.320e+06-5.284e+06-2.083e+06
526 1550 61.01	778.94-1101.33-190.39	-132.00	-939.68 1.728e+06-4.139e+06-1.169e+05-2.294e+06-2.724e+06
551 66.71	396.08-1329.49-117.37	-816.05	-788.90-7.665e+04-6.016e+06-2.763e+06-3.330e+06-2.956e+06
590 81.64	1207.39-1769.66534.51	-1096.78	-1245.16-1.460e+05-7.362e+06-2.312e+06-5.196e+06-3.308e+06
591 72.85	1073.73-1678.58-408.35	-196.51	-1372.07 1.446e+06-5.255e+06-4.967e+05-3.313e+06-3.041e+06
526 2550 47.19	574.42-885.75 -149.40	-161.93	-730.06 1.207e+06-3.312e+06-1.891e+05-1.916e+06-2.088e+06
551 51.95	278.66-1060.01 -93.23	-688.12	-599.62-1.742e+05-4.763e+06-2.225e+06-2.713e+06-2.282e+06
590 63.91	916.12-1412.42 424.36	-920.66	-950.40-2.345e+05-5.864e+06-1.867e+06-4.231e+06-2.555e+06
591 56.70	798.95-1328.00-300.91	-228.14	-1062.85 9.729e+05-4.226e+06-4.709e+05-2.783e+06-2.329e+06
527 1549 60.20	962.67-872.13 -69.33	159.88	-910.22 3.399e+06-2.469e+06 1.009e+06-7.852e+04 2.883e+06
550 61.82	637.72-1175.22 4.81	-542.31	-864.21 1.536e+06-4.380e+06-1.703e+06-1.140e+06-2.944e+06
591 71.38	1348.55-1553.48498.60	-703.53	-1320.67 1.753e+06-4.872e+06-1.244e+06-1.875e+06-3.297e+06
592 69.08	1280.87-1528.07-466.32	219.13	-1362.01 3.572e+06-2.903e+06 6.165e+05 5.277e+04 3.225e+06
527 2549 46.20	713.04-706.73 -56.28	62.59	-707.39 2.487e+06-2.022e+06 6.771e+05-2.119e+05 2.210e+06
550 47.88	461.29-938.09 0.75	-477.55	-657.55 1.061e+06-3.499e+06-1.410e+06-1.029e+06-2.272e+06
591 55.44	1018.25-1239.66396.74	-618.15	-1008.49 1.205e+06-3.927e+06-1.046e+06-1.676e+06-2.547e+06
592 53.06	950.55-1204.47-345.50	91.58	-1055.11 2.583e+06-2.391e+06 3.854e+05-1.938e+05 2.470e+06
528 1548 62.78	1109.46-617.43 54.51	437.52	-841.94 5.015e+06-8.166e+05 2.077e+06 2.121e+06 2.916e+06
549 59.95	857.87-983.35 126.65	-252.13	-900.92 3.174e+06-2.678e+06-5.834e+05 1.080e+06 2.805e+06



592	69.48	1464.17-1309.68443.59	-289.10	-1337.67	3.929e+06-2.566e+06-1.345e+05	1.498e+06	3.144e+06
593	74.57	1466.40-1352.03-501.45	615.81	-1293.76	5.912e+06-8.363e+05	1.690e+06	3.386e+06
528	2548	47.83	823.09-507.95	38.98	276.16	-654.87	3.725e+06-7.459e+05
549	46.08	627.69-787.56	94.47	-254.34	-685.79	2.316e+06-2.185e+06-5.480e+05	6.789e+05
592	53.20	1100.12-1045.06354.43	-299.36	-1021.56	2.854e+06-2.128e+06-1.923e+05	9.178e+05	2.429e+06
593	56.55	1085.96-1061.76-372.53	396.72	-1002.62	4.359e+06-7.774e+05	1.212e+06	2.370e+06
529	1547	67.84	1213.41-349.03	175.59	688.80	-737.87	6.505e+06
548	61.56	1045.35-760.77	242.77	41.80	-897.45	4.767e+06-9.858e+05	5.483e+05
593	76.59	1551.34-1051.17371.78	128.39	-1295.55	6.301e+06-5.579e+05	9.690e+05	4.774e+06
594	86.57	1619.00-1155.13-512.39	976.26	-1170.44	8.315e+06	9.041e+05	2.678e+06
529	2547	51.45	899.84-298.27	132.12	469.45	-574.82	4.866e+06
548	46.96	769.08-613.52	183.80	-28.24	-683.12	3.536e+06-8.783e+05	3.226e+05
593	57.99	1159.33-838.36	299.19	21.78	-989.17	4.655e+06-5.599e+05	6.566e+05
594	65.30	1196.40-903.36-380.94	673.99	-907.76	6.189e+06	5.802e+05	1.972e+06
530	1546	74.00	1271.89-80.79	288.44	902.66	-602.59	7.806e+06
547	66.01	1191.39-516.77	348.00	326.62	-854.02	6.249e+06	6.179e+05
594	89.39	1611.00-794.17	286.10	530.73	-1196.35	8.702e+06	1.128e+06
595	102.42	1730.96-945.23-499.00	1284.73	-997.53	1.059e+07	2.330e+06	3.538e+06
530	2546	56.01	940.91-88.03	218.92	633.96	-470.76	5.862e+06
547	50.09	878.56-422.96	264.75	190.86	-649.71	4.671e+06	3.607e+05
594	67.40	1196.45-631.89	233.28	331.28	-912.86	6.484e+06	7.549e+05
595	76.47	1275.84-735.21-370.65	911.28	-774.75	7.926e+06	1.689e+06	2.633e+06
531	1546	72.01	1290.09-262.64	589.72	437.73	772.63	7.563e+06
595	105.30	1648.28-558.01	899.96	190.31	1044.52	1.094e+07	2.507e+06
596	121.94	1798.93-733.291527.58	-461.94	783.25	1.256e+07	3.455e+06	1.179e+07
545	83.31	1286.92170.47	1069.61	387.77	442.03	8.869e+06	3.321e+06
531	2546	54.50	951.36-224.36	393.24	333.77	587.11	5.677e+06
595	78.69	1215.48-440.58	615.30	159.59	796.06	8.194e+06	1.827e+06
596	91.40	1321.66-565.721098.08	-342.14	609.92	9.436e+06	2.562e+06	8.832e+06
545	62.58	947.33110.39	762.39	295.34	347.25	6.676e+06	2.450e+06
532	1575	76.63	1510.96-1387.15-561.66	685.47	1308.03	6.401e+06-4.148e+05	1.946e+06
576	70.04	1512.57-1315.89434.44	-237.75	1373.71	4.321e+06-2.160e+06	6.620e+04	2.095e+06
565	60.47	888.94-954.31	146.21	-211.57	904.10	3.497e+06-2.388e+06-3.739e+05	1.482e+06
566	64.03	1116.15-583.26	66.22	466.67	825.78	5.350e+06-5.063e+05	2.326e+06
532	2575	58.02	1118.56-1087.09-418.85	450.31	1013.59	4.731e+06-4.491e+05	1.408e+06
576	53.49	1136.09-1048.57347.38	-259.86	1049.29	3.151e+06-1.811e+06-3.786e+04	1.377e+06	2.378e+06
565	46.41	651.24-764.85	109.50	-223.12	688.24	2.564e+06-1.962e+06-3.868e+05	9.890e+05
566	48.74	827.83-481.25	47.97	298.61	642.43	3.982e+06-5.065e+05	1.690e+06
533	1544	89.83	1339.59220.66	1006.34	553.91	511.69	9.496e+06
597	138.96	1697.01-237.291477.53	-17.80	613.50	1.430e+07	4.368e+06	1.426e+07
598	147.30	1812.32-364.051778.61	-330.34	268.74	1.511e+07	4.798e+06	1.489e+07
543	96.38	1243.54520.28	1235.94	527.89	73.78	1.013e+07	4.782e+06
533	2544	67.54	981.23155.63	713.72	423.13	386.39	7.156e+06
597	104.45	1234.32-175.231059.58	-0.49	464.51	1.077e+07	3.270e+06	1.074e+07
598	110.83	1320.55-270.271291.19	-240.91	214.14	1.139e+07	3.602e+06	1.122e+07
543	72.54	898.60394.85	890.34	403.11	63.98	7.640e+06	3.579e+06



534	1543	95.58	1303.45412.57	1141.39	574.63	343.68	1.004e+07	4.770e+06	1.004e+07	4.770e+06	3.272e+04
	598	148.19	1728.17-190.44	1660.65	-122.91	353.55	1.522e+07	4.844e+06	1.522e+07	4.844e+06	4.531e+04
	599	151.43	1775.97-243.60	1775.93	-243.56	-8.58	1.553e+07	5.006e+06	1.546e+07	5.071e+06	-8.248e+05
	542	98.11	1247.86	541.28	1227.61	561.53	-117.90	1.029e+07	4.996e+06	1.018e+07	5.104e+06
534	2543	71.93	947.63309.05	817.61	439.07	257.14	7.574e+06	3.570e+06	7.574e+06	3.570e+06	1.765e+04
	598	111.52	1252.90-133.80	1200.44	-81.35	264.55	1.147e+07	3.637e+06	1.147e+07	3.637e+06	2.440e+04
	599	114.00	1289.13-174.15	1289.13	-174.15	0.81	1.171e+07	3.762e+06	1.166e+07	3.812e+06	-6.240e+05
	542	73.86	898.77414.16	883.93	428.99	-83.48	7.760e+06	3.745e+06	7.678e+06	3.827e+06	-5.678e+05
535	1542	98.05	1255.91530.80	1218.59	568.12	160.21	1.028e+07	4.996e+06	1.020e+07	5.075e+06	6.414e+05
	599	151.46	1764.21-227.13	1761.04	-223.95	79.40	1.553e+07	5.007e+06	1.548e+07	5.059e+06	7.355e+05
	600	149.44	1729.35-193.07	1686.60	-150.32	-283.46	1.534e+07	4.901e+06	1.534e+07	4.903e+06	-1.416e+05
	541	96.36	1286.13439.30	1157.41	568.01	-304.03	1.012e+07	4.848e+06	1.012e+07	4.852e+06	-1.450e+05
535	2542	73.82	905.54405.51	877.00	434.05	116.01	7.755e+06	3.745e+06	7.695e+06	3.805e+06	4.858e+05
	599	114.03	1279.68-161.07	1277.67	-159.07	53.65	1.171e+07	3.764e+06	1.167e+07	3.803e+06	5.553e+05
	600	112.48	1253.14-135.16	1220.41	-102.43	-210.63	1.156e+07	3.682e+06	1.156e+07	3.683e+06	-9.846e+04
	541	72.53	932.90331.02	829.94	433.97	-226.64	7.633e+06	3.630e+06	7.630e+06	3.633e+06	-1.040e+05
536	1541	97.05	1236.04532.61	1234.66	534.00	-31.20	1.019e+07	4.860e+06	9.898e+06	5.155e+06	1.218e+06
	600	148.63	1793.79-337.17	1775.45	-318.83	-196.82	1.524e+07	4.859e+06	1.505e+07	5.049e+06	1.391e+06
	571	141.47	1685.85-227.90	1515.84	-57.89	-544.47	1.456e+07	4.494e+06	1.453e+07	4.523e+06	5.458e+05
	570	91.25	1321.49253.73	1028.28	546.94	-476.56	9.637e+06	4.347e+06	9.596e+06	4.388e+06	4.642e+05
536	2541	73.05	891.38405.79	889.36	407.81	-31.23	7.689e+06	3.640e+06	7.463e+06	3.866e+06	9.296e+05
	600	111.86	1305.17-248.46	1288.76	-232.06	-158.81	1.149e+07	3.649e+06	1.134e+07	3.795e+06	1.059e+06
	571	106.37	1223.90-166.17	1089.06	-31.33	-411.41	1.096e+07	3.366e+06	1.094e+07	3.391e+06	4.303e+05
	570	68.62	966.12182.26	730.61	417.76	-359.36	7.264e+06	3.243e+06	7.230e+06	3.276e+06	3.646e+05
537	1570	92.62	1252.15409.90	1188.61	473.44	-222.44	9.782e+06	4.376e+06	9.149e+06	5.009e+06	1.738e+06
	571	139.87	1800.80-503.70	1703.76	-406.66	-462.83	1.436e+07	4.408e+06	1.395e+07	4.819e+06	1.980e+06
	572	128.01	1649.62-351.59	1271.83	26.19	-783.14	1.322e+07	3.798e+06	1.307e+07	3.955e+06	1.204e+06
	569	83.15	1324.7021.00	845.17	500.53	-628.66	8.856e+06	3.519e+06	8.639e+06	3.736e+06	1.055e+06
537	2570	69.67	911.71303.45	853.94	361.22	-178.33	7.374e+06	3.266e+06	6.886e+06	3.754e+06	1.329e+06
	571	105.14	1315.40-381.40	1233.62	-299.62	-363.44	1.082e+07	3.300e+06	1.050e+07	3.618e+06	1.512e+06
	572	96.05	1203.82-269.12	901.36	33.34	-595.00	9.942e+06	2.828e+06	9.816e+06	2.953e+06	9.368e+05
	569	62.44	973.46-1.65	589.76	382.06	-476.36	6.666e+06	2.602e+06	6.494e+06	2.775e+06	8.191e+05
538	1569	85.10	1269.53202.70	1081.87	390.36	-406.18	9.057e+06	3.572e+06	7.981e+06	4.648e+06	2.179e+06
	572	125.72	1774.46-711.66	1552.24	-489.44	-709.29	1.295e+07	3.674e+06	1.223e+07	4.388e+06	2.473e+06
	573	109.83	1619.44-554.63	965.60	99.21	-996.99	1.141e+07	2.824e+06	1.101e+07	3.223e+06	1.809e+06
	568	73.28	1283.97-233.15	616.48	434.34	-753.07	7.810e+06	2.385e+06	7.281e+06	2.914e+06	1.610e+06
538	2569	63.93	932.67136.47	771.84	297.31	-319.67	6.820e+06	2.644e+06	5.988e+06	3.476e+06	1.669e+06
	572	94.29	1300.84-547.07	1117.06	-363.29	-553.02	9.731e+06	2.732e+06	9.176e+06	3.287e+06	1.892e+06
	573	82.15	1189.98-434.67	665.79	89.52	-759.50	8.555e+06	2.072e+06	8.236e+06	2.391e+06	1.402e+06
	568	55.44	946.05-201.06	413.85	331.14	-572.06	5.866e+06	1.726e+06	5.449e+06	2.143e+06	1.246e+06
539	1583161.63		451.81-2228.01-2210.86		434.67	-213.65	-5.343e+06	-1.648e+07	-1.626e+07	-5.563e+06	1.547e+06
	558	105.67	-543.21-1570.21-1569.25		-544.18	-31.46	-5.396e+06	-1.102e+07	-1.067e+07	-5.745e+06	1.357e+06
	559	99.00	-280.25-1626.18-1339.35		-567.08	-551.17	-4.817e+06	-1.038e+07	-1.032e+07	-4.870e+06	5.380e+05
	582	153.29	320.64-2105.54-1913.32		128.41	-655.31	-4.931e+06	-1.567e+07	-1.564e+07	-4.964e+06	5.941e+05
539	2583126.81		359.08-1789.16-1777.64		347.56	-156.93	-4.199e+06	-1.291e+07	-1.274e+07	-4.368e+06	1.200e+06
	558	82.88	-421.22-1267.83-1267.49		-421.56	-16.97	-4.249e+06	-8.628e+06	-8.359e+06	-4.518e+06	1.051e+06



559	77.73	-224.51-1305.31-1090.64	-439.18	-431.20-3.807e+06-8.132e+06-8.093e+06-3.845e+064.064e+05
582	120.37	256.88-1693.65-1548.76	111.98	-511.50-3.884e+06-1.229e+07-1.227e+07-3.908e+064.465e+05
540	1545 81.28	1338.66-11.49 819.69	507.48	656.78 8.659e+06 3.267e+06 8.393e+06 3.533e+06-1.168e+06
	596124.33	1673.11-365.121220.29	87.70	847.29 1.285e+07 3.587e+06 1.266e+07 3.776e+06-1.311e+06
	597137.27	1823.79-533.901694.57	-404.68	536.61 1.410e+07 4.279e+06 1.365e+07 4.729e+06-2.054e+06
	544 91.31	1269.01382.37 1182.43	468.95	263.19 9.652e+06 4.214e+06 8.941e+06 4.925e+06-1.833e+06
540	2545 61.02	985.08-27.52 570.14	387.42	497.99 6.516e+06 2.408e+06 6.305e+06 2.618e+06-9.060e+05
	596 93.23	1224.64-282.27 861.71	80.66	644.35 9.656e+06 2.664e+06 9.505e+06 2.816e+06-1.019e+06
	597103.14	1334.68-406.231226.54	-298.09	420.19 1.061e+07 3.201e+06 1.027e+07 3.549e+06-1.569e+06
	544 68.67	926.48280.47 849.18	357.78	209.68 7.275e+06 3.141e+06 6.726e+06 3.689e+06-1.402e+06
541	1 4 65.18	-1329.41-3310.04-1686.82-2952.63	-761.68-1.012e+07-1.953e+07-1.782e+07-1.183e+073.621e+06	
	581 52.27	-1792.83-4473.48-2156.49-4109.83	-917.92-8.310e+06-1.456e+07-1.134e+07-1.153e+073.124e+06	
	580 44.15	-988.20-3936.33-1385.65 -3538.88	-1006.86-5.910e+06-1.301e+07-1.063e+07-8.286e+063.349e+06	
	3 56.21	-1211.26-3039.37-1275.70-2974.93	-337.13-7.611e+06-1.688e+07-1.599e+07-8.504e+062.735e+06	
541	2 4 51.15	-1101.09-2626.91-1377.19-2350.82	-587.40-8.038e+06-1.527e+07-1.396e+07-9.348e+062.784e+06	
	581 41.09	-1460.45-3518.81-1738.36-3240.90	-703.42-6.591e+06-1.140e+07-8.891e+06-9.098e+062.401e+06	
	580 34.80	-837.84-3109.27-1145.40 -2801.70	-777.19-4.751e+06-1.020e+07-8.349e+06-6.599e+062.579e+06	
	3 44.22	-1011.92-2417.00-1060.94-2367.98	-257.83-6.104e+06-1.323e+07-1.254e+07-6.792e+062.105e+06	
542	1 5 72.10	-1605.51-3663.29-1847.55-3421.25	-662.93-1.194e+07-2.138e+07-2.035e+07-1.297e+072.942e+06	
	582 57.01	-2142.31-4827.63-2323.24-4646.69	-673.15-1.053e+07-1.519e+07-1.305e+07-1.267e+072.323e+06	
	581 50.71	-1521.49-4438.98-1743.46-4217.02	-773.51-8.560e+06-1.419e+07-1.252e+07-1.023e+072.573e+06	
	4 65.23	-1523.15-3455.15-1537.62-3440.68	-166.58-1.007e+07-1.939e+07-1.898e+07-1.048e+071.904e+06	
542	2 5 56.49	-1313.67-2898.45-1500.83-2711.30	-511.44-9.434e+06-1.669e+07-1.590e+07-1.022e+072.261e+06	
	582 44.76	-1728.79-3791.72-1866.63-3653.87	-515.13-8.301e+06-1.188e+07-1.021e+07-9.969e+061.784e+06	
	581 39.89	-1248.48-3495.52-1420.65-3323.35	-597.69-6.791e+06-1.111e+07-9.805e+06-8.094e+061.982e+06	
	4 51.20	-1251.54-2737.12-1262.42-2726.24	-126.64-7.995e+06-1.516e+07-1.485e+07-8.309e+061.466e+06	
543	1 6 76.47	-1791.29-3895.65-1938.05-3748.88	-536.01-1.306e+07-2.252e+07-2.202e+07-1.357e+072.130e+06	
	583 59.89	-2338.20-5050.12-2398.53-4989.80	-399.95-1.225e+07-1.524e+07-1.421e+07-1.327e+071.419e+06	
	582 55.88	-1941.52-4813.27-2034.53-4720.26	-508.38-1.082e+07-1.481e+07-1.389e+07-1.175e+071.685e+06	
	5 72.15	-1742.52-3763.67-1742.57-3763.62	10.45-1.191e+07-2.128e+07-2.117e+07-1.201e+079.851e+05	
543	2 6 59.86	-1456.78-3076.98-1570.44-2963.32	-413.81-1.030e+07-1.757e+07-1.718e+07-1.069e+071.637e+06	
	583 46.99	-1878.92-3963.42-1924.54-3917.80	-304.98-9.629e+06-1.191e+07-1.110e+07-1.043e+071.089e+06	
	582 43.89	-1572.05-3782.95-1644.55-3710.46	-393.74-8.534e+06-1.158e+07-1.085e+07-9.262e+061.298e+06	
	5 56.53	-1420.02-2974.72-1420.07-2974.66	9.53-9.409e+06-1.661e+07-1.653e+07-9.490e+067.595e+05	
544	1 7 78.03	-1880.78-3995.28-1954.08-3921.98	-386.80-1.344e+07-2.291e+07-2.275e+07-1.360e+071.222e+06	
	584 60.71	-2374.83-5128.90-2379.28-5124.46	-110.59-1.319e+07-1.490e+07-1.477e+07-1.332e+074.526e+05	
	583 59.27	-2228.46-5044.98-2246.23-5027.21	-223.00-1.253e+07-1.490e+07-1.466e+07-1.278e+077.234e+05	
	6 76.50	-1864.70-3947.49-1881.42-3930.77	185.85-1.305e+07-2.247e+07-2.247e+07-1.305e+072.016e+04	
544	2 7 61.06	-1525.84-3153.41-1582.77-3096.47	-299.03-1.059e+07-1.787e+07-1.775e+07-1.071e+079.382e+05	
	584 47.62	-1906.53-4024.59-1909.74-4021.38	-82.39-1.037e+07-1.164e+07-1.153e+07-1.047e+073.458e+05	
	583 46.51	-1793.30-3960.67-1807.39-3946.57	-174.21-9.857e+06-1.164e+07-1.145e+07-1.005e+075.587e+05	
	6 59.88	-1513.75-3116.37-1526.88-3103.24	144.46-1.029e+07-1.753e+07-1.753e+07-1.029e+071.722e+04	
545	1 8 76.69	-1871.29-3957.41-1895.03-3933.67	-221.24-1.307e+07-2.253e+07-2.252e+07-1.308e+072.548e+05	
	585 59.44	-2253.53-5058.01-2265.64-5045.90	183.86-1.268e+07-1.485e+07-1.471e+07-1.282e+07-5.351e+05	
	584 60.65	-2367.34-5127.19-2369.16-5125.36	71.03-1.323e+07-1.486e+07-1.481e+07-1.328e+07-2.709e+05	
	7 78.03	-1887.39-3996.51-1948.23-3935.67	353.00-1.345e+07-2.290e+07-2.281e+07-1.355e+07-9.518e+05	





545 2 8 60.03	-1518.77-3124.05-1537.35-3105.47	-171.68-1.030e+07-1.757e+07-1.757e+07-1.031e+071.943e+05
585 46.64	-1812.65-3970.63-1822.32-3960.96	144.11-9.975e+06-1.160e+07-1.148e+07-1.009e+07-4.139e+05
584 47.57	-1900.68-4023.35-1901.95-4022.08	51.96-1.040e+07-1.160e+07-1.156e+07-1.044e+07-2.061e+05
7 61.07	-1530.97-3154.31-1578.27-3107.01	273.03-1.060e+07-1.786e+07-1.779e+07-1.067e+07-7.305e+05
546 1 9 72.55	-1761.80-3784.66-1762.87-3783.60	-46.36-1.196e+07-2.140e+07-2.134e+07-1.201e+07-7.285e+05
586 56.16	-1983.57-4836.61-2063.20-4756.98	469.94-1.104e+07-1.478e+07-1.402e+07-1.179e+07-1.501e+06
585 59.93	-2349.46-5058.93-2398.61-5009.78	361.58-1.241e+07-1.515e+07-1.433e+07-1.322e+07-1.253e+06
8 76.68	-1810.20-3907.70-1939.46-3778.43	504.40-1.310e+07-2.257e+07-2.218e+07-1.349e+07-1.887e+06
546 2 9 56.84	-1434.80-2990.91-1435.69-2990.02	-37.16-9.448e+06-1.671e+07-1.666e+07-9.492e+06-5.621e+05
586 44.10	-1604.46-3800.85-1666.60-3738.71	364.17-8.702e+06-1.155e+07-1.096e+07-9.296e+06-1.157e+06
585 47.02	-1887.51-3970.26-1924.60-3933.17	275.46-9.755e+06-1.184e+07-1.120e+07-1.040e+07-9.617e+05
8 60.02	-1471.37-3086.21-1571.53-2986.06	389.50-1.033e+07-1.761e+07-1.731e+07-1.063e+07-1.450e+06
547 1 10 65.86	-1554.92-3487.31-1563.63-3478.60	129.43-1.015e+07-1.957e+07-1.926e+07-1.046e+07-1.681e+06
587 51.10	-1579.80-4471.81-1780.49-4271.12	734.93-8.813e+06-1.421e+07-1.275e+07-1.028e+07-2.402e+06
586 57.17	-2172.33-4846.84-2332.63-4686.54	634.85-1.074e+07-1.514e+07-1.325e+07-1.263e+07-2.180e+06
9 72.52	-1636.71-3685.54-1855.79-3466.45	633.14-1.200e+07-2.149e+07-2.061e+07-1.288e+07-2.740e+06
547 2 10 51.68	-1275.92-2761.91-1282.42-2755.41	98.07-8.060e+06-1.530e+07-1.506e+07-8.299e+06-1.295e+06
587 40.19	-1293.39-3520.72-1449.13-3364.98	568.01-6.987e+06-1.112e+07-9.975e+06-8.132e+06-1.850e+06
586 44.89	-1751.81-3806.56-1873.85-3684.52	485.67-8.463e+06-1.184e+07-1.037e+07-9.937e+06-1.675e+06
9 56.81	-1337.71-2915.53-1507.16-2746.07	488.52-9.485e+06-1.677e+07-1.610e+07-1.016e+07-2.106e+06
548 1 11 57.09	-1255.49-3082.51-1305.84-3032.16	299.08-7.732e+06-1.713e+07-1.637e+07-8.492e+06-2.563e+06
588 44.66	-1062.22-3977.22-1429.92-3609.53	967.80-6.192e+06-1.309e+07-1.094e+07-8.350e+06-3.199e+06
587 52.56	-1841.95-4502.05-2174.55-4169.45	879.84-8.550e+06-1.457e+07-1.162e+07-1.151e+07-3.012e+06
10 65.81	-1372.30-3341.92-1700.67-3013.55	734.12-1.022e+07-1.970e+07-1.818e+07-1.174e+07-3.476e+06
548 2 11 44.90	-1045.88-2450.24-1084.12-2412.00	228.57-6.197e+06-1.343e+07-1.284e+07-6.783e+06-1.973e+06
588 35.20	-894.83-3140.68-1179.46-2856.06	747.14-4.969e+06-1.026e+07-8.583e+06-6.648e+06-2.463e+06
587 41.32	-1498.17-3540.84-1752.25-3286.76	674.12-6.777e+06-1.141e+07-9.106e+06-9.078e+06-2.315e+06
10 51.63	-1134.13-2651.40-1387.84-2397.69	566.20-8.113e+06-1.540e+07-1.423e+07-9.280e+06-2.672e+06
549 1589 38.77	-454.85-3373.17-2799.50-1028.52	-1159.77-3.312e+06-1.145e+07-6.095e+06-8.664e+063.859e+06
588 46.46	-1372.15-4040.35-3479.64-1932.87	-1087.06-5.990e+06-1.343e+07-9.928e+06-9.488e+063.711e+06
11 57.02	-1025.03-2895.49-2438.41-1482.11	-803.75-7.823e+06-1.728e+07-1.013e+07-1.498e+074.064e+06
12 46.98	-870.66-2593.97-2463.22-1001.41	-456.32-4.799e+06-1.419e+07-6.194e+06-1.279e+073.340e+06
549 2589 30.09	-427.27-2676.38-2232.96-870.70	-894.81-2.752e+06-8.996e+06-4.913e+06-6.835e+062.971e+06
588 36.59	-1137.19-3185.28-2756.14-1566.34	-833.52-4.806e+06-1.052e+07-7.862e+06-7.469e+062.853e+06
11 44.84	-866.82-2308.16-1955.27-1219.72	-619.76-6.268e+06-1.354e+07-8.044e+06-1.177e+073.124e+06
12 37.06	-750.15-2074.15-1974.36-849.94	-349.52-3.940e+06-1.116e+07-5.015e+06-1.009e+072.571e+06
550 1590 37.67	215.49-2685.84-1879.67-590.68	-1299.63-3.055e+05-9.339e+06-3.602e+06-6.042e+064.349e+06
589 39.41	-784.56-3480.93-2650.16-1615.32	-1244.94-3.182e+06-1.173e+07-7.942e+06-6.972e+064.248e+06
12 46.88	-604.75-2371.13-1768.50-1207.39	-837.45-4.914e+06-1.436e+07-8.115e+06-1.116e+074.469e+06
13 38.54	-409.97-2050.35-1797.80-662.51	-592.02-1.480e+06-1.088e+07-3.659e+06-8.696e+063.965e+06
550 2590 29.16	88.64-2147.93-1525.39-533.89	-1002.40-4.376e+05-7.376e+06-2.996e+06-4.818e+063.347e+06
589 31.10	-685.49-2754.67-2118.08-1322.07	-954.97-2.644e+06-9.223e+06-6.334e+06-5.533e+063.265e+06
12 36.97	-543.39-1904.96-1439.95-1008.40	-645.68-4.031e+06-1.129e+07-6.493e+06-8.828e+063.436e+06
13 30.01	-396.06-1655.69-1462.50-589.25	-453.91-1.386e+06-8.614e+06-3.065e+06-6.936e+063.052e+06
551 1591 36.94	920.33-1946.05-888.82-136.89	-1383.00-2.694e+06-6.859e+06-9.857e+05-3.179e+064.649e+06
590 37.89	-107.28-2845.80-1716.01-1237.07	-1348.16-2.523e+05-9.565e+06-5.643e+06-4.175e+064.598e+06



13 39.37	-123.00-1798.66-1032.05	-889.61	-834.80-1.621e+06-1.104e+07-5.782e+06-6.882e+064.679e+06
14 34.14	113.52-1482.46-1064.59	-304.35	-701.64 2.081e+06-7.334e+06-1.002e+06-4.251e+064.418e+06
551 2591 28.50	631.02-1579.05-763.20	-184.83	-1066.52 1.871e+06-5.470e+06-9.830e+05-2.615e+063.578e+06
590 29.34	-164.66-2265.95-1399.50	-1031.11	-1034.37-3.895e+05-7.558e+06-4.565e+06-3.382e+063.535e+06
13 30.66	-172.73-1464.67-873.45	-763.95	-643.65-1.497e+06-8.742e+06-4.698e+06-5.540e+063.598e+06
14 26.43	6.39-1218.63 -898.48	-313.75	-538.23 1.353e+06-5.891e+06-1.022e+06-3.516e+063.400e+06
552 1592 36.68	1630.70-1187.95129.71	313.04	-1406.34 5.555e+06-4.114e+06 1.640e+06-1.989e+05 4.747e+06
591 37.07	626.86-2159.48-717.93	-814.69	-1392.33 2.668e+06-7.017e+06-3.131e+06-1.218e+064.747e+06
14 34.50	406.43-1210.37-261.26	-542.68	-796.06 1.916e+06-7.492e+06-3.235e+06-2.341e+064.683e+06
15 33.57	681.12-919.31 -295.60	57.40	-780.51 5.727e+06-3.720e+06 1.660e+06 3.478e+05 4.677e+06
552 2592 28.19	1177.55-995.99 20.28	161.28	-1084.48 4.073e+06-3.360e+06 1.037e+06-3.234e+05 3.653e+06
591 28.61	400.02-1737.97-631.75	-706.20	-1068.35 1.858e+06-5.598e+06-2.633e+06-1.107e+063.649e+06
14 26.74	234.51-1012.13-280.54	-497.08	-613.85 1.224e+06-6.010e+06-2.739e+06-2.047e+063.601e+06
15 25.75	442.87-785.30 -306.95	-35.48	-598.90 4.158e+06-3.111e+06 1.026e+06 2.129e+04 3.600e+06
553 1593 36.90	2318.28-447.221131.49	739.58	-1368.79 8.154e+06-1.225e+06 4.162e+06 2.767e+06 4.637e+06
592 36.70	1382.44-1448.58300.50	-366.63	-1375.65 5.452e+06-4.197e+06-5.149e+05 1.769e+06 4.687e+06
15 33.29	965.79-637.34 510.24	-181.79	-723.04 5.544e+06-3.859e+06-5.842e+052.270e+06 4.480e+06
16 37.02	1267.36-384.75 475.62	406.99	-825.34 9.299e+06-1.873e+05 4.212e+06 4.900e+06 4.731e+06
553 2593 28.25	1706.44-426.17 790.88	489.38	-1055.60 6.073e+06-1.138e+06 2.977e+06 1.958e+06 3.569e+06
592 28.22	981.31-1191.19 151.65	-361.54	-1055.51 4.000e+06-3.431e+06-6.208e+051.191e+06 3.603e+06
15 25.56	664.68-571.23 312.93	-219.48	-557.68 4.016e+06-3.216e+06-6.999e+051.500e+06 3.444e+06
16 28.19	893.80-374.07 286.29	233.44	-633.38 6.906e+06-3.944e+05 2.989e+06 3.523e+06 3.641e+06
554 1594 37.51	2956.21240.77 2072.84	1124.14	-1272.17 1.038e+07 1.683e+06 6.470e+06 5.590e+06 4.325e+06
593 36.81	2123.68-741.151294.97	87.55	-1298.98 7.978e+06-1.230e+06 2.091e+06 4.657e+06 4.422e+06
16 36.21	1531.77-105.701248.84	177.23	-619.06 9.107e+06-3.027e+05 2.056e+06 6.749e+06 4.078e+06
17 42.97	1841.40103.21 1215.53	729.08	-834.37 1.264e+07 3.111e+06 6.543e+06 9.207e+06 4.574e+06
554 2594 28.62	2197.02103.18 1515.00	785.20	-981.27 7.784e+06 1.097e+06 4.752e+06 4.130e+06 3.329e+06
593 28.19	1551.67-647.20 916.63	-12.17	-996.54 5.945e+06-1.150e+06 1.384e+06 3.412e+06 3.399e+06
16 27.59	1099.83-162.06 881.08	56.69	-477.69 6.757e+06-4.808e+05 1.331e+06 4.945e+06 3.135e+06
17 32.63	1335.441.22 855.45	481.20	-640.33 9.477e+06 2.142e+06 4.783e+06 6.836e+06 3.521e+06
555 1595 40.91	3519.76842.88 2912.62	1450.02	-1120.99 1.213e+07 4.480e+06 8.464e+06 8.148e+06 3.823e+06
594 37.34	2816.24-65.95 2222.26	528.04	-1165.83 1.014e+07 1.753e+06 4.574e+06 7.319e+06 3.962e+06
17 41.93	2075.87365.15 1922.44	518.59	-488.82 1.245e+07 3.021e+06 4.570e+06 1.090e+07 3.494e+06
18 50.58	2371.01530.65 1892.20	1009.46	-807.42 1.560e+07 6.035e+06 8.555e+06 1.308e+07 4.215e+06
555 2595 30.66	2630.25566.61 2160.99	1035.87	-864.98 9.136e+06 3.247e+06 6.286e+06 6.097e+06 2.943e+06
594 28.50	2084.67-128.081629.93	326.67	-894.11 7.609e+06 1.144e+06 3.294e+06 5.459e+06 3.046e+06
17 31.83	1518.11200.40 1399.23	319.28	-377.51 9.329e+06 2.075e+06 3.265e+06 8.139e+06 2.686e+06
18 37.98	1742.96329.89 1375.97	696.88	-619.60 1.176e+07 4.391e+06 6.331e+06 9.817e+06 3.244e+06
556 1 2 45.82	-813.30-2540.22-2386.12	-967.40	492.31-4.632e+06-1.386e+07-6.171e+06-1.232e+07-3.439e+06
3 56.14	-970.74-2854.74-2363.77	-1461.71	827.00-7.691e+06-1.705e+07-1.018e+07-1.455e+07-4.136e+06
580 45.99	-1303.62-4003.77-3403.48-1903.92	1122.73-5.722e+06-1.334e+07-9.912e+06-9.149e+06-3.789e+06	
579 38.81	-365.01-3325.73-2715.91	-974.83	1197.34-2.999e+06-1.128e+07-5.986e+06-8.295e+06-3.978e+06
556 2 2 36.17	-706.10-2032.74-1915.04	-823.79	377.21-3.812e+06-1.091e+07-4.997e+06-9.724e+06-2.647e+06
3 44.16	-825.02-2276.85-1897.85	-1204.02	637.65-6.167e+06-1.336e+07-8.084e+06-1.144e+07-3.180e+06
580 36.23	-1084.53-3157.10-2697.55-1544.08	860.97-4.599e+06-1.046e+07-7.849e+06-7.208e+06-2.912e+06	
579 30.12	-358.12-2639.91-2168.65	-829.38	923.71-2.509e+06-8.871e+06-4.830e+06-6.551e+06-3.062e+06



557 1	1 37.53	-338.08-1986.17-1697.48	-626.77	626.46-1.249e+06-1.045e+07-3.575e+06-8.128e+06-4.001e+06
	2 45.75	-538.71-2322.26-1676.91	-1184.06	857.05-4.737e+06-1.404e+07-8.114e+06-1.066e+07-4.473e+06
	579 39.05	-695.95-3437.73-2554.10	-1579.58	1281.38-2.883e+06-1.156e+07-7.874e+06-6.571e+06-4.289e+06
	578 37.72	322.75-2632.49-1777.99	-531.75	1339.80 5.251e+04-9.083e+06-3.429e+06-5.601e+06-4.437e+06
557 2	1 29.22	-340.82-1606.27-1385.32	-561.77	480.40-1.208e+06-8.291e+06-3.001e+06-6.499e+06-3.079e+06
	2 36.10	-492.57-1867.38-1369.50	-990.45	660.76-3.894e+06-1.105e+07-6.492e+06-8.448e+06-3.439e+06
	579 30.60	-617.36-2721.41-2044.18	-1294.59	983.00-2.414e+06-9.092e+06-6.281e+06-5.225e+06-3.297e+06
	578 29.19	171.19-2106.92-1447.18	-488.55	1033.30-1.613e+05-7.180e+06-2.863e+06-4.479e+06-3.415e+06
558 1	29 33.29	201.05-1406.71-939.34	-266.32	730.06 2.415e+06-6.812e+06-8.096e+05-3.587e+06-4.399e+06
	1 38.44	-44.18-1741.88 -922.42	-863.64	848.34-1.377e+06-1.064e+07-5.694e+06-6.321e+06-4.620e+06
	578 37.89	3.31-2796.47 -1597.28	-1195.88	1385.43 8.899e+04-9.297e+06-5.494e+06-3.715e+06-4.608e+06
	577 37.09	1049.09-1885.00-762.20	-73.71	1426.09 3.122e+06-6.494e+06-7.001e+05-2.671e+06-4.706e+06
558 2	29 25.76	73.68-1160.31 -802.13	-284.50	560.09 1.610e+06-5.489e+06-8.733e+05-3.006e+06-3.386e+06
	1 29.94	-112.10-1421.00-789.13	-743.97	654.06-1.309e+06-8.430e+06-4.631e+06-5.108e+06-3.552e+06
	578 29.34	-79.61-2227.99-1308.17	-999.43	1063.04-1.260e+05-7.352e+06-4.451e+06-3.028e+06-3.542e+06
	577 28.60	730.09-1532.10-665.80	-136.21	1099.67 2.201e+06-5.189e+06-7.633e+05-2.225e+06-3.622e+06
559 1	28 33.45	782.76-828.78 -148.26	102.24	795.98 6.237e+06-3.074e+06 2.035e+06 1.128e+06-4.634e+06
	29 33.73	498.56-1144.02-133.87	-511.59	799.28 2.268e+06-6.985e+06-3.016e+06-1.702e+06-4.580e+06
	577 37.17	763.70-2101.76-569.79	-768.27	1429.29 3.079e+06-6.637e+06-2.856e+06-7.024e+05-4.737e+06
	576 37.08	1788.59-1111.51296.00	381.08	1449.43 6.095e+06-3.612e+06 2.116e+06 3.669e+05-4.774e+06
559 2	28 25.62	521.04-715.65 -193.62	-0.99	610.80 4.551e+06-2.615e+06 1.315e+06 6.211e+05-3.566e+06
	29 26.12	305.37-961.07 -182.55	-473.16	616.32 1.495e+06-5.620e+06-2.570e+06-1.555e+06-3.521e+06
	577 28.67	505.28-1693.57-517.79	-670.50	1096.77 2.175e+06-5.307e+06-2.422e+06-7.106e+05-3.642e+06
	576 28.47	1299.01-937.19 148.20	213.62	1117.62 4.488e+06-2.974e+06 1.403e+06 1.119e+05-3.675e+06
560 1	27 38.17	1377.97-281.34 629.95	466.68	825.63 1.011e+07 6.584e+05 4.908e+06 5.858e+06-4.700e+06
	28 33.24	1068.95-556.90 650.23	-138.17	710.95 6.081e+06-3.225e+06-1.686e+05 3.024e+06-4.371e+06
	576 37.06	1553.51-1372.70491.91	-311.10	1406.93 5.978e+06-3.680e+06-4.054e+04 2.338e+06-4.680e+06
	575 37.63	2510.82-338.361356.70	815.76	1398.68 8.829e+06-5.574e+05 4.912e+06 3.360e+06-4.629e+06
560 2	27 29.03	978.89-294.53 405.01	279.35	633.61 7.528e+06 2.561e+05 3.525e+06 4.260e+06-3.617e+06
	28 25.48	743.99-509.31 420.61	-185.92	548.38 4.429e+06-2.729e+06-3.802e+05 2.080e+06-3.360e+06
	576 28.48	1112.93-1132.86298.91	-318.84	1079.58 4.405e+06-3.033e+06-2.559e+05 1.628e+06-3.598e+06
	575 28.78	1854.53-342.41 964.12	547.99	1078.58 6.592e+06-6.242e+05 3.554e+06 2.414e+06-3.563e+06
561 1	26 45.41	1948.26198.67 1354.63	792.31	828.38 1.384e+07 4.528e+06 7.900e+06 1.047e+07-4.476e+06
	27 37.55	1637.33-11.39 1384.33	241.61	594.25 9.986e+06 5.482e+05 2.823e+06 7.711e+06-4.037e+06
	575 37.49	2330.94-620.441545.57	164.94	1304.27 8.656e+06-5.195e+05 2.882e+06 5.254e+06-4.432e+06
	574 37.90	3163.68379.73 2340.78	1202.62	1270.33 1.093e+07 2.402e+06 7.279e+06 6.050e+06-4.218e+06
561 2	26 34.46	1417.6674.63 962.45	529.83	635.72 1.040e+07 3.232e+06 5.826e+06 7.806e+06-3.444e+06
	27 28.57	1180.99-89.46 985.30	106.23	458.61 7.433e+06 1.737e+05 1.921e+06 5.685e+06-3.103e+06
	575 28.69	1711.17-554.411109.41	47.35	1000.61 6.466e+06-6.021e+05 1.992e+06 3.872e+06-3.407e+06
	574 28.90	2356.54210.15 1721.11	845.58	979.85 8.207e+06 1.652e+06 5.374e+06 4.484e+06-3.247e+06
562 1	25 52.88	2476.44608.90 2024.33	1061.01	799.96 1.628e+07 7.006e+06 9.294e+06 1.399e+07-3.997e+06
	26 44.19	2183.81451.89 2049.08	586.62	463.89 1.357e+07 4.511e+06 5.978e+06 1.211e+07-3.338e+06
	574 37.55	3024.3381.55 2489.88	616.00	1134.51 1.065e+07 2.527e+06 5.431e+06 7.743e+06-3.892e+06
	573 42.96	3683.54968.67 3145.03	1507.18	1082.58 1.259e+07 5.311e+06 9.206e+06 8.698e+06-3.632e+06
562 2	25 39.72	1824.09390.05 1477.61	736.53	613.86 1.228e+07 5.139e+06 6.899e+06 1.052e+07-3.077e+06
	26 33.34	1601.08267.18 1496.64	371.61	358.33 1.019e+07 3.221e+06 4.348e+06 9.067e+06-2.566e+06



574	28.64	2244.85-14.72	1835.81	394.32	870.03	7.998e+06	1.740e+06	3.953e+06	5.786e+06	-2.992e+06
573	32.21	2756.13663.49	2339.76	1079.86	835.43	9.490e+06	3.887e+06	6.857e+06	6.520e+06	-2.796e+06
563	1572	48.26	4082.701415.791726.60	3771.89	-855.74	1.361e+07	7.638e+06	1.077e+07	1.048e+07	2.984e+06
24	60.89	2913.77942.14	1257.86	2598.04	-723.05	1.852e+07	9.001e+06	1.695e+07	1.056e+07	3.525e+06
25	52.89	2681.34830.90	883.16	2629.07	-306.55	1.611e+07	6.853e+06	1.535e+07	7.615e+06	2.545e+06
573	41.14	3577.08681.23	1008.68	3249.64	-917.07	1.228e+07	5.457e+06	1.012e+07	7.615e+06	3.172e+06
563	2572	36.24	3062.761007.831248.63	2821.96	-660.94	1.028e+07	5.674e+06	8.117e+06	7.836e+06	2.298e+06
24	45.85	2160.68646.19	887.95	1918.93	-554.70	1.400e+07	6.672e+06	1.280e+07	7.875e+06	2.714e+06
25	39.72	1983.49559.03	599.72	1942.80	-237.30	1.214e+07	5.022e+06	1.156e+07	5.607e+06	1.956e+06
573	30.82	2670.41446.20	696.39	2420.23	-702.76	9.256e+06	3.992e+06	7.615e+06	5.633e+06	2.438e+06
564	1571	52.28	4394.161728.961877.72	4245.40	-611.83	1.412e+07	9.635e+06	1.235e+07	1.141e+07	2.192e+06
23	67.04	3239.581197.201401.50		3035.27	-612.80	2.019e+07	1.059e+07	1.926e+07	1.151e+07	2.838e+06
24	60.89	3075.691115.131123.53		3067.29	-128.03	1.838e+07	8.930e+06	1.805e+07	9.259e+06	1.731e+06
572	46.81	4020.061175.391347.24		3848.21	-677.75	1.330e+07	7.859e+06	1.189e+07	9.260e+06	2.378e+06
564	2571	39.31	3301.861249.221364.88	3186.20	-473.32	1.067e+07	7.206e+06	9.329e+06	8.549e+06	1.688e+06
23	50.56	2411.51842.19	998.45	2255.26	-469.89	1.529e+07	7.892e+06	1.457e+07	8.607e+06	2.185e+06
24	45.84	2286.55777.97	784.62	2279.89	-99.98	1.389e+07	6.620e+06	1.364e+07	6.872e+06	1.330e+06
572	35.14	3011.59825.90	956.82	2880.66	-518.67	1.004e+07	5.836e+06	8.979e+06	6.898e+06	1.827e+06
565	1600	54.64	4587.641897.801942.80	4542.64	-345.01	1.412e+07	1.115e+07	1.338e+07	1.189e+07	1.283e+06
22	70.83	3447.041365.531482.92		3329.65	-480.18	2.119e+07	1.157e+07	2.076e+07	1.200e+07	1.995e+06
23	67.05	3353.651313.671315.13		3352.20	54.51	2.009e+07	1.055e+07	2.002e+07	1.062e+07	8.073e+05
571	51.26	4358.411559.051623.42		4294.03	-419.60	1.380e+07	9.890e+06	1.312e+07	1.057e+07	1.485e+06
565	2600	41.12	3450.161379.641414.95	3414.85	-268.07	1.068e+07	8.364e+06	1.012e+07	8.919e+06	9.893e+05
22	53.46	2571.31971.46	1061.07	2481.70	-367.87	1.606e+07	8.647e+06	1.572e+07	8.981e+06	1.536e+06
23	50.57	2500.09930.96	932.01	2499.05	40.43	1.521e+07	7.863e+06	1.516e+07	7.916e+06	6.193e+05
571	38.53	3272.331120.551169.27		3223.61	-320.09	1.043e+07	7.394e+06	9.921e+06	7.908e+06	1.140e+06
566	1599	55.12	4643.891912.971914.38	4642.47	-62.24	1.387e+07	1.182e+07	1.383e+07	1.187e+07	3.065e+05
21	71.95	3525.861440.041493.48		3472.43	-329.55	2.147e+07	1.186e+07	2.135e+07	1.197e+07	1.048e+06
22	70.83	3508.111420.311445.79		3482.62	229.26	2.114e+07	1.155e+07	2.114e+07	1.155e+07	-1.812e+05
600	54.13	4568.881814.661822.15		4561.39	-143.43	1.387e+07	1.137e+07	1.376e+07	1.148e+07	5.216e+05
566	2599	41.48	3492.861391.871393.09	3491.64	-50.56	1.050e+07	8.869e+06	1.047e+07	8.904e+06	2.380e+05
21	54.32	2632.161028.561069.19		2591.53	-252.01	1.627e+07	8.869e+06	1.618e+07	8.958e+06	8.080e+05
22	53.47	2618.651013.241032.52		2599.37	174.86	1.602e+07	8.634e+06	1.602e+07	8.636e+06	-1.411e+05
600	40.73	3434.751316.651322.13		3429.26	-107.65	1.050e+07	8.522e+06	1.041e+07	8.606e+06	3.989e+05
567	1598	53.63	4552.971774.711792.89	4534.79	223.98	1.384e+07	1.114e+07	1.365e+07	1.133e+07	-6.889e+05
20	70.31	3471.281416.081429.59		3457.77	-166.08	2.100e+07	1.142e+07	2.100e+07	1.142e+07	5.274e+04
21	71.95	3531.431430.201505.43		3456.20	390.39	2.147e+07	1.185e+07	2.133e+07	1.200e+07	-1.172e+06
599	55.16	4636.701925.751933.13		4629.32	141.20	1.390e+07	1.180e+07	1.379e+07	1.191e+07	-4.677e+05
567	2598	40.34	3422.371286.071299.62	3408.81	169.62	1.047e+07	8.348e+06	1.033e+07	8.488e+06	-5.277e+05
20	53.06	2590.411009.901020.05		2580.26	-126.26	1.591e+07	8.531e+06	1.591e+07	8.531e+06	4.229e+04
21	54.33	2636.361021.081078.39		2579.05	298.80	1.627e+07	8.868e+06	1.616e+07	8.979e+06	-9.032e+05
599	41.51	3487.481401.551407.50		3481.53	111.29	1.052e+07	8.853e+06	1.044e+07	8.935e+06	-3.621e+05
568	1597	50.27	4314.301490.511582.67	4222.15	501.72	1.368e+07	9.471e+06	1.287e+07	1.028e+07	-1.655e+06
19	65.97	3285.821293.111293.12		3285.81	4.19	1.979e+07	1.025e+07	1.970e+07	1.035e+07	-9.421e+05
20	70.30	3421.471342.641490.00		3274.11	533.50	2.105e+07	1.143e+07	2.057e+07	1.192e+07	-2.112e+06
598	54.23	4558.321882.101950.30		4490.12	421.75	1.411e+07	1.091e+07	1.321e+07	1.182e+07	-1.439e+06



568	2597	37.78	3238.251067.981137.92	3168.32	383.26	1.034e+07	7.073e+06	9.733e+06	7.680e+06	-1.271e+06		
	19	49.74	2447.99915.06	915.07	2447.98	4.72	1.498e+07	7.637e+06	1.491e+07	7.709e+06	-7.229e+05	
	20	53.06	2551.57953.94	1066.52	2438.98	408.89	1.595e+07	8.540e+06	1.557e+07	8.916e+06	-1.626e+06	
	598	40.80	3427.761367.401420.71	3374.44	327.10	1.067e+07	8.184e+06	9.993e+06	8.865e+06	-1.109e+06		
569	1595	39.13	3428.68548.68	936.80	3040.56	983.43	1.185e+07	4.621e+06	9.635e+06	6.831e+06	-3.329e+06	
	18	50.58	2568.34761.80	827.75	2502.38	338.83	1.543e+07	5.969e+06	1.454e+07	6.856e+06	-2.757e+06	
	601	59.21	2825.67885.61	1235.83	2475.45	746.19	1.806e+07	8.455e+06	1.635e+07	1.016e+07	-3.668e+06	
	596	46.81	3986.121330.561703.61	3613.07	922.76	1.335e+07	7.038e+06	1.033e+07	1.006e+07	-3.154e+06		
569	2595	29.30	2556.12344.37	641.09	2259.40	753.81	8.923e+06	3.348e+06	7.241e+06	5.030e+06	-2.558e+06	
	18	37.96	1896.63505.80	557.10	1845.34	262.13	1.162e+07	4.343e+06	1.094e+07	5.024e+06	-2.119e+06	
	601	44.57	2092.87602.76	871.00	1824.63	572.50	1.364e+07	6.253e+06	1.233e+07	7.564e+06	-2.823e+06	
	596	35.14	2988.61942.13	1230.95	2699.79	712.49	1.008e+07	5.213e+06	7.775e+06	7.515e+06	-2.429e+06	
570	1596	45.29	3935.041075.231292.71	3717.56	758.07	1.303e+07	7.239e+06	1.152e+07	8.756e+06	-2.548e+06		
	601	59.22	2977.391071.721087.89	2961.23	174.75	1.791e+07	8.410e+06	1.752e+07	8.802e+06	-1.891e+06		
	19	65.96	3182.481159.171398.81	2942.83	653.79	1.990e+07	1.028e+07	1.888e+07	1.130e+07	-2.956e+06		
	597	51.38	4337.911681.101872.15	4146.86	686.35	1.400e+07	9.230e+06	1.204e+07	1.119e+07	-2.349e+06		
570	2596	33.97	2946.05749.00	914.87	2780.17	580.45	9.840e+06	5.360e+06	8.689e+06	6.510e+06	-1.958e+06	
	601	44.57	2211.01744.50	757.20	2198.30	135.92	1.353e+07	6.219e+06	1.323e+07	6.520e+06	-1.453e+06	
	19	49.74	2367.52813.01	996.38	2184.15	501.43	1.506e+07	7.657e+06	1.428e+07	8.439e+06	-2.275e+06	
	597	38.62	3258.741212.251360.59	3110.40	530.64	1.058e+07	6.895e+06	9.092e+06	8.385e+06	-1.809e+06		
571	1	30	3.15	-170.50-293.91	-265.32	-199.09	52.06	-4.336e+05	-8.668e+05	-5.575e+05	-7.429e+05	-1.957e+05
	2	51.08	-75.87-2613.02-1037.33	-1651.57	-1230.84	-4.410e+06	-1.515e+07	-1.116e+07	-8.400e+06	5.190e+06		
	1	42.93	200.44-2204.34-374.51	-1629.39	-1025.70	-6.304e+05	-1.115e+07	-8.535e+06	-3.244e+06	4.545e+06		
571	2	30	3.49	-210.62-305.55	-283.56	-232.61	40.05	-5.853e+05	-9.185e+05	-6.806e+05	-8.232e+05	-1.505e+05
	2	39.75	-138.12-2089.23-877.41	-1349.94	-946.51	-3.642e+06	-1.190e+07	-8.833e+06	-6.712e+06	3.992e+06		
	1	33.35	74.96-1775.38	-367.55	-1332.87	-789.29	-7.340e+05	-8.825e+06	-6.814e+06	-2.745e+06	3.497e+06	
572	1	30	3.13	-176.61-304.96	-288.29	-193.28	43.15	-4.578e+05	-8.466e+05	-4.929e+05	-8.116e+05	-1.114e+05
	3	58.90	-491.31-3044.84-1220.90	-2315.25	-1153.57	-7.466e+06	-1.826e+07	-1.529e+07	-1.044e+07	4.821e+06		
	2	49.33	-270.29-2658.70-631.94	-2297.04	-856.14	-4.157e+06	-1.469e+07	-1.298e+07	-5.872e+06	3.890e+06		
572	2	30	3.49	-215.32-314.05	-301.23	-228.14	33.19	-6.039e+05	-9.030e+05	-6.309e+05	-8.760e+05	-8.566e+04
	3	46.28	-457.67-2421.41-1018.62	-1860.46	-887.07	-5.993e+06	-1.429e+07	-1.201e+07	-8.278e+06	3.708e+06		
	2	38.39	-287.18-2124.85-565.57	-1846.45	-658.86	-3.447e+06	-1.155e+07	-1.023e+07	-4.767e+06	2.993e+06		
573	1	30	3.16	-184.02-315.63	-307.19	-192.45	32.23	-4.642e+05	-8.446e+05	-4.654e+05	-8.434e+05	-2.123e+04
	4	68.00	-846.01-3398.93-1360.71	-2884.23	-1024.24	-9.987e+06	-2.081e+07	-1.877e+07	-1.203e+07	4.237e+06		
	3	57.98	-679.54-3061.15-870.71	-2869.98	-647.11	-7.274e+06	-1.784e+07	-1.687e+07	-8.249e+06	3.059e+06		
573	2	30	3.51	-221.02-322.25	-315.77	-227.50	24.79	-6.088e+05	-9.014e+05	-6.097e+05	-9.005e+05	-1.633e+04
	4	53.31	-730.48-2693.83-1126.17	-2298.14	-787.59	-7.932e+06	-1.626e+07	-1.469e+07	-9.504e+06	3.259e+06		
	3	45.57	-602.03-2434.38-749.24	-2287.17	-498.06	-5.845e+06	-1.397e+07	-1.322e+07	-6.595e+06	2.354e+06		
574	1	30	3.21	-191.44-324.40	-321.05	-194.79	20.84	-4.648e+05	-8.506e+05	-4.752e+05	-8.403e+05	5.225e+04
	5	74.95	-1124.81-3661.33-1451.49	-3334.65	-849.65	-1.187e+07	-2.271e+07	-2.146e+07	-1.312e+07	3.461e+06		
	4	67.24	-1009.40-3396.36-1081.66	-3324.09	-408.99	-9.852e+06	-2.047e+07	-2.004e+07	-1.028e+07	2.087e+06		
574	2	30	3.54	-226.73-329.01	-326.43	-229.30	16.03	-6.093e+05	-9.061e+05	-6.173e+05	-8.982e+05	4.788e+04
	5	58.68	-944.90-2895.71-1196.00	-2644.61	-653.29	-9.380e+06	-1.772e+07	-1.675e+07	-1.034e+07	2.662e+06		
	4	52.73	-855.83-2692.18-911.52	-2636.49	-314.89	-7.828e+06	-1.599e+07	-1.566e+07	-8.157e+06	1.606e+06		
575	1	30	3.26	-198.01-330.26	-329.54	-198.73	9.77	-4.686e+05	-8.579e+05	-5.176e+05	-8.088e+05	1.292e+05
	6	79.28	-1314.86-3822.38-1489.44	-3647.81	-638.18	-1.303e+07	-2.386e+07	-2.323e+07	-1.366e+07	2.529e+06		



5	74.41	-1246.15-3650.52-1255.94-3640.73	-153.11-1.179e+07-2.245e+07-2.236e+07-1.188e+071.017e+06
575 2	30 3.58	-231.78-333.51 -332.95 -232.34	7.51-6.122e+05-9.116e+05-6.499e+05-8.739e+059.936e+04
6	62.02	-1091.05-3019.65-1225.19-2885.51	-490.62-1.027e+07-1.860e+07-1.812e+07-1.075e+071.945e+06
5	58.26	-1038.01-2887.63-1045.57-2880.06	-118.06-9.315e+06-1.752e+07-1.745e+07-9.391e+067.824e+05
576 1	30 3.31	-203.23-332.70 -332.69 -203.24	-0.65-4.777e+05-8.644e+05-5.843e+05-7.578e+051.728e+05
7	80.74	-1406.37-3877.15-1472.74-3810.78	-399.46-1.342e+07-2.422e+07-2.402e+07-1.363e+071.483e+06
6	78.99	-1380.89-3811.96-1385.77-3807.08	108.84-1.299e+07-2.372e+07-2.372e+07-1.299e+07-1.042e+05
576 2	30 3.62	-235.80-335.39 -335.38 -235.80	-0.50-6.192e+05-9.166e+05-7.012e+05-8.347e+051.329e+05
7	63.14	-1161.39-3061.83-1212.34-3010.87	-306.99-1.057e+07-1.888e+07-1.872e+07-1.073e+071.140e+06
6	61.80	-1141.72-3011.75-1145.45-3008.02	83.43-1.024e+07-1.849e+07-1.849e+07-1.024e+07-7.972e+04
577 1	30 3.36	-206.85-331.63 -330.78 -207.70	-10.26-4.905e+05-8.710e+05-6.644e+05-6.971e+051.896e+05
8	79.25	-1393.33-3825.55-1401.89-3816.99	-144.01-1.302e+07-2.379e+07-2.378e+07-1.303e+073.687e+05
7	80.72	-1409.78-3872.05-1465.18-3816.64	365.17-1.343e+07-2.421e+07-2.407e+07-1.357e+07-1.224e+06
577 2	30 3.66	-238.58-334.57 -333.91 -239.24	-7.89-6.290e+05-9.218e+05-7.628e+05-7.880e+051.458e+05
8	61.99	-1151.29-3022.20-1157.84-3015.65	-110.49-1.027e+07-1.855e+07-1.854e+07-1.028e+072.832e+05
7	63.12	-1164.00-3057.91-1206.53-3015.38	280.61-1.058e+07-1.887e+07-1.876e+07-1.069e+07-9.415e+05
578 1	30 3.25	-166.99-284.12 -240.08 -211.04	56.74-3.885e+05-9.085e+05-6.538e+05-6.432e+05-2.600e+05
1	44.36	383.60-2121.45-816.18 -921.68	-1251.42-9.445e+05-1.162e+07-6.561e+06-6.001e+065.329e+06
29	39.05	711.44-1715.29-107.27 -896.58	-1147.39 3.162e+06-7.360e+06-3.732e+06-4.666e+055.001e+06
578 2	30 3.54	-207.92-298.02 -264.14 -241.80	43.64-5.506e+05-9.506e+05-7.547e+05-7.465e+05-2.000e+05
1	34.46	215.31-1711.08-707.30 -788.48	-962.34-9.761e+05-9.185e+06-5.295e+06-4.866e+064.099e+06
29	30.17	468.05-1399.21-161.98 -769.17	-882.89 2.183e+06-5.911e+06-3.119e+06-6.086e+053.847e+06
579 1	30 3.41	-208.79-327.31 -324.19 -211.91	-18.95-5.035e+05-8.788e+05-7.461e+05-6.362e+051.795e+05
9	74.90	-1274.04-3672.21-1279.76-3666.49	116.97-1.185e+07-2.259e+07-2.254e+07-1.190e+07-7.632e+05
8	79.49	-1333.83-3826.03-1490.43-3669.44	604.77-1.307e+07-2.391e+07-2.340e+07-1.358e+07-2.294e+06
579 2	30 3.69	-240.07-331.24 -328.84 -242.47	-14.58-6.390e+05-9.278e+05-8.257e+05-7.411e+051.380e+05
9	58.64	-1059.47-2904.31-1063.90-2899.88	90.26-9.365e+06-1.763e+07-1.758e+07-9.407e+06-5.875e+05
8	62.17	-1105.64-3022.46-1225.95-2902.14	464.92-1.030e+07-1.864e+07-1.825e+07-1.070e+07-1.764e+06
580 1	30 3.45	-208.97-320.17 -313.41 -215.73	-26.57-5.141e+05-8.876e+05-8.182e+05-5.835e+051.452e+05
10	67.99	-1051.65-3426.00-1111.51-3366.14	372.21-9.957e+06-2.067e+07-2.034e+07-1.029e+07-1.863e+06
9	75.39	-1158.53-3673.92-1460.21-3372.24	817.21-1.195e+07-2.282e+07-2.173e+07-1.304e+07-3.264e+06
580 2	30 3.72	-240.21-325.75 -320.55 -245.42	-20.44-6.472e+05-9.345e+05-8.812e+05-7.006e+051.117e+05
10	53.30	-888.34-2714.97-934.48 -2668.84	286.60-7.909e+06-1.615e+07-1.589e+07-8.166e+06-1.434e+06
9	59.01	-970.84-2905.40-1202.71 -2673.53	628.33-9.439e+06-1.780e+07-1.697e+07-1.028e+07-2.510e+06
581 1	30 3.48	-207.35-310.85 -299.02 -219.19	-32.94-5.213e+05-8.952e+05-8.710e+05-5.455e+059.196e+04
11	59.00	-734.42-3099.16-904.36 -2929.21	610.73-7.423e+06-1.813e+07-1.729e+07-8.265e+06-2.882e+06
10	68.69	-893.18-3420.75-1375.72 -2938.21	993.38-1.011e+07-2.100e+07-1.915e+07-1.196e+07-4.091e+06
581 2	30 3.73	-238.97-318.58 -309.48 -248.07	-25.34-6.528e+05-9.404e+05-9.218e+05-6.714e+057.074e+04
11	46.36	-644.26-2463.61-775.13 -2332.74	470.08-5.959e+06-1.419e+07-1.355e+07-6.608e+06-2.218e+06
10	53.85	-766.76-2710.62-1137.71 -2339.66	763.85-8.024e+06-1.640e+07-1.498e+07-9.448e+06-3.147e+06
582 1	30 3.48	-203.86-300.10 -281.70 -222.26	-37.85-5.250e+05-8.994e+05-8.975e+05-5.270e+052.671e+04
12	50.31	-335.71-2706.49-667.29 -2374.92	822.28-4.358e+06-1.507e+07-1.351e+07-5.916e+06-3.777e+06
11	59.87	-550.33-3076.71-1240.59 -2386.45	1125.79-7.632e+06-1.853e+07-1.576e+07-1.040e+07-4.740e+06
582 2	30 3.74	-236.28-310.31 -296.16 -250.43	-29.11-6.556e+05-9.436e+05-9.421e+05-6.571e+052.054e+04
12	39.15	-337.51-2161.61-592.76 -1906.36	632.81-3.602e+06-1.184e+07-1.064e+07-4.801e+06-2.905e+06
11	47.03	-503.07-2445.93-1033.77 -1915.23	865.70-6.120e+06-1.450e+07-1.237e+07-8.246e+06-3.646e+06



583	1	28	39.22	1239.24-1212.67-564.39	590.96	-1081.32	7.070e+06	-3.481e+06	4.340e+06	-7.506e+05	4.621e+06
		30	3.41	-165.54-277.06 -184.28	-258.33	41.69	-3.404e+05	-9.625e+05	-9.141e+05	-3.888e+05	-1.666e+05
		29	39.73	869.39-1592.54-1224.25	501.11	-878.10	2.792e+06	-7.811e+06	1.169e+06	-6.188e+06	3.818e+06
583	2	28	30.06	874.07-1012.60-513.78	375.26	-832.03	5.190e+06	-2.928e+06	3.090e+06	-8.272e+05	3.555e+06
		30	3.63	-206.81-292.59 -221.22	-278.18	32.07	-5.136e+05	-9.921e+05	-9.549e+05	-5.508e+05	-1.281e+05
		29	30.71	588.99-1304.23-1021.04	305.81	-675.23	1.898e+06	-6.257e+06	6.505e+05	-5.009e+06	2.936e+06
584	1	27	43.47	1759.60-723.89-276.37	1312.08	-954.53	1.096e+07	3.572e+05	9.075e+06	2.239e+06	4.051e+06
		30	3.55	-161.55-273.88 -167.71	-267.72	25.57	-3.490e+05	-1.011e+06	-1.000e+06	-3.596e+05	-8.303e+04
		28	38.85	1363.28-1054.79-856.00	1164.49	-664.21	6.656e+06	-3.885e+06	5.746e+06	-2.976e+06	2.959e+06
584	2	27	33.13	1274.34-636.60-292.22	929.96	-734.50	8.180e+06	2.520e+04	6.733e+06	1.473e+06	3.116e+06
		30	3.73	-203.73-290.14 -208.47	-285.40	19.67	-5.202e+05	-1.029e+06	-1.021e+06	-5.284e+05	-6.387e+04
		28	29.80	968.92-890.59 -737.77	816.10	-510.71	4.870e+06	-3.238e+06	4.171e+06	-2.539e+06	2.276e+06
585	1	26	50.58	2247.13-271.89 7.38	1967.86	-790.88	1.479e+07	4.199e+06	1.350e+07	5.484e+06	3.458e+06
		30	3.77	-152.70-274.44 -153.60	-273.54	10.43	-6.317e+05	-1.053e+06	-1.052e+06	-6.322e+05	-1.519e+04
		27	42.14	1847.74-541.57-462.51	1768.68	-427.39	1.051e+07	4.716e+04	1.010e+07	4.515e+05	2.016e+06
585	2	26	38.46	1649.35-288.90 -73.96	1434.41	-608.61	1.113e+07	2.980e+06	1.014e+07	3.969e+06	2.660e+06
		30	3.98	-196.92-290.58 -197.62	-289.88	8.02	-7.377e+05	-1.061e+06	-1.061e+06	-7.381e+05	-1.169e+04
		27	32.12	1341.61-495.83-435.08	1280.86	-328.53	7.834e+06	-2.128e+05	7.523e+06	9.794e+04	1.550e+06
586	1	25	57.18	2670.67123.73 270.15	2524.25	-592.85	1.756e+07	6.625e+06	1.696e+07	7.222e+06	2.484e+06
		30	3.82	-139.94-270.34 -139.96	-270.32	-1.44	-6.249e+05	-1.060e+06	-9.142e+05	-7.702e+05	-2.050e+05
		26	48.62	2297.55-82.06 -68.89	2284.38	-176.52	1.429e+07	3.989e+06	1.416e+07	4.121e+06	1.158e+06
586	2	25	43.48	1975.1315.45 128.17	1862.40	-456.29	1.326e+07	4.846e+06	1.280e+07	5.305e+06	1.911e+06
		30	4.00	-187.11-287.42 -187.13	-287.40	-1.11	-7.325e+05	-1.067e+06	-9.550e+05	-8.443e+05	-1.577e+05
		26	36.95	1687.65-142.39-132.30	1677.55	-135.56	1.074e+07	2.819e+06	1.064e+07	2.920e+06	8.897e+05
587	1	24	64.01	3004.73455.47 508.30	2951.90	-363.17	1.988e+07	8.845e+06	1.970e+07	9.026e+06	1.401e+06
		30	3.63	-128.27-257.30 -129.49	-256.07	-12.53	-3.430e+05	-1.018e+06	-6.917e+05	-6.688e+05	-3.371e+05
		25	55.46	2687.38306.56 309.63	2684.30	85.52	1.714e+07	6.417e+06	1.714e+07	6.418e+06	-9.164e+04
587	2	24	48.26	2232.06270.66 311.37	2191.36	-279.61	1.504e+07	6.554e+06	1.490e+07	6.693e+06	1.078e+06
		30	3.76	-178.13-277.39 -179.08	-276.44	-9.64	-5.156e+05	-1.034e+06	-7.838e+05	-7.662e+05	-2.593e+05
		25	42.16	1987.57156.49 158.87	1985.19	66.01	1.293e+07	4.687e+06	1.293e+07	4.688e+06	-7.115e+04
588	1	23	70.17	3240.43713.94 719.07	3235.30	-113.72	2.158e+07	1.054e+07	2.158e+07	1.055e+07	2.659e+05
		30	3.48	-120.08-241.85 -124.59	-237.34	-23.01	-3.328e+05	-9.712e+05	-5.604e+05	-7.437e+05	-3.057e+05
		24	63.30	3003.87613.35 665.57	2951.66	349.42	1.955e+07	8.697e+06	1.940e+07	8.847e+06	-1.265e+06
588	2	23	52.98	2413.33469.53 473.49	2409.36	-87.72	1.635e+07	7.857e+06	1.635e+07	7.862e+06	2.046e+05
		30	3.64	-171.83-265.50 -175.30	-262.03	-17.70	-5.078e+05	-9.988e+05	-6.828e+05	-8.238e+05	-2.352e+05
		24	47.71	2231.09392.43 432.67	2190.85	269.01	1.479e+07	6.441e+06	1.467e+07	6.556e+06	-9.741e+05
589	1	22	73.89	3375.26885.89 893.64	3367.51	138.68	2.258e+07	1.157e+07	2.251e+07	1.164e+07	-8.788e+05
		30	3.32	-115.19-227.96 -124.09	-219.06	-30.40	-3.753e+05	-9.231e+05	-4.759e+05	-8.225e+05	-2.121e+05
		23	69.68	3234.33828.07 987.75	3074.64	598.95	2.135e+07	1.045e+07	2.081e+07	1.099e+07	-2.371e+06
589	2	22	55.82	2516.99601.85 607.78	2511.06	106.44	1.712e+07	8.647e+06	1.707e+07	8.701e+06	-6.759e+05
		30	3.54	-168.07-254.82 -174.92	-247.98	-23.39	-5.404e+05	-9.619e+05	-6.178e+05	-8.845e+05	-1.632e+05
		23	52.60	2408.42557.53 680.50	2285.45	460.96	1.617e+07	7.785e+06	1.576e+07	8.203e+06	-1.824e+06
590	1	21	74.86	3408.64960.90 1022.01	3347.53	381.92	2.282e+07	1.185e+07	2.245e+07	1.222e+07	-1.982e+06
		30	3.23	-114.14-219.75 -127.00	-206.89	-34.54	-4.112e+05	-8.906e+05	-4.321e+05	-8.697e+05	-9.772e+04
		22	73.63	3373.50943.13 1260.98	3055.65	819.44	2.246e+07	1.152e+07	2.130e+07	1.268e+07	-3.368e+06
590	2	21	56.57	2542.62659.60 706.53	2495.69	293.54	1.730e+07	8.869e+06	1.702e+07	9.154e+06	-1.524e+06



30	3.50	-167.26-248.51	-177.16	-238.61	-26.57-5.681e+05-9.368e+05-5.841e+05-9.208e+057.517e+04
22	55.63	2515.54645.98	890.68	2270.84	630.57 1.703e+07 8.611e+06 1.613e+07 9.503e+06-2.592e+06
591 1	21 74.87	3415.06954.64	999.25	3370.45	-328.29 2.282e+07 1.185e+07 2.250e+07 1.218e+07 1.863e+06
20	73.02	3340.84932.51	1210.90	3062.45	-770.04 2.228e+07 1.138e+07 2.120e+07 1.246e+07 3.260e+06
30	3.22	-116.73-217.47	-120.57	-213.63	19.29-4.268e+05-8.787e+05-5.619e+05-7.436e+052.069e+05
591 2	21 56.58	2547.56654.77	689.02	2513.32	-252.28 1.731e+07 8.865e+06 1.706e+07 9.116e+06 1.433e+06
20	55.16	2490.40637.82	852.15	2276.07	-592.56 1.689e+07 8.502e+06 1.606e+07 9.335e+06 2.508e+06
30	3.49	-169.26-246.75	-172.21	-243.79	14.84-5.800e+05-9.277e+05-6.840e+05-8.238e+051.592e+05
592 1	20 73.30	3354.03863.26	865.96	3351.33	-81.88 2.241e+07 1.142e+07 2.236e+07 1.147e+07 7.471e+05
19	68.45	3175.42799.02	932.20	3042.24	-546.57 2.099e+07 1.015e+07 2.050e+07 1.064e+07 2.255e+06
30	3.25	-122.19-219.73	-124.10	-217.82	13.52-4.292e+05-8.798e+05-4.841e+05-8.249e+051.474e+05
592 2	20 55.37	2500.67584.43	586.49	2498.62	-62.74 1.699e+07 8.531e+06 1.695e+07 8.570e+06 5.747e+05
19	51.66	2363.09535.20	637.77	2260.53	-420.66 1.590e+07 7.556e+06 1.552e+07 7.934e+06 1.735e+06
30	3.51	-173.46-248.49	-174.93	-247.02	10.40-5.819e+05-9.286e+05-6.241e+05-8.863e+051.134e+05
593 1	19 68.98	3189.62674.36	685.37	3178.61	166.02 2.125e+07 1.023e+07 2.123e+07 1.024e+07-3.937e+05
601	61.43	2919.08563.37	602.53	2879.91	-301.20 1.900e+07 8.207e+06 1.888e+07 8.332e+06 1.157e+06
30	3.28	-129.85-225.01	-130.44	-224.43	7.44-4.307e+05-8.841e+05-4.422e+05-8.725e+057.145e+04
593 2	19 52.06	2374.25439.07	447.57	2365.75	127.95 1.609e+07 7.620e+06 1.608e+07 7.631e+06-3.029e+05
601	46.29	2165.85353.99	384.18	2135.66	-231.92 1.437e+07 6.063e+06 1.427e+07 6.160e+06 8.906e+05
30	3.54	-179.35-252.55	-179.80	-252.10	5.72-5.831e+05-9.318e+05-5.919e+05-9.229e+055.497e+04
594 1601	62.19	2924.78396.32	463.83	2857.27	407.59 1.935e+07 8.345e+06 1.914e+07 8.559e+06-1.520e+06
18	53.76	2585.93235.64	236.33	2585.24	-40.36 1.641e+07 5.651e+06 1.641e+07 5.651e+06 537.83
30	3.31	-138.90-231.47	-138.90	-231.47	0.06-4.401e+05-8.876e+05-4.402e+05-8.875e+05 -6800.89
594 2601	46.87	2170.57225.16	277.16	2118.57	313.78 1.464e+07 6.169e+06 1.447e+07 6.334e+06-1.169e+06
18	40.87	1909.52101.94	102.49	1908.98	-31.27 1.238e+07 4.098e+06 1.238e+07 4.098e+06 1094.77
30	3.56	-186.31-257.52	-186.31	-257.52	0.04-5.903e+05-9.345e+05-5.904e+05-9.344e+05 -5231.10
595 1	18 55.49	2573.3044.40	212.38	2405.32	629.74 1.683e+07 5.845e+06 1.620e+07 6.481e+06-2.564e+06
17	47.26	2188.37-171.43-150.84	2167.79	219.45	1.332e+07 2.567e+06 1.319e+07 2.688e+06-1.137e+06
30	3.32	-149.40-239.32	-150.07	-238.65	-7.73-4.557e+05-8.863e+05-4.713e+05-8.707e+05-8.041e+04
595 2	18 42.20	1900.23-45.58	83.73	1770.92	484.66 1.270e+07 4.247e+06 1.221e+07 4.735e+06-1.973e+06
17	35.96	1603.67-211.13-195.34	1587.87	168.58	9.993e+06 1.725e+06 9.900e+06 1.819e+06-8.741e+05
30	3.58	-194.39-263.55	-194.90	-263.04	-5.94-6.023e+05-9.335e+05-6.143e+05-9.215e+05-6.186e+04
596 1	17 48.96	2146.61-368.30	-59.41	1837.72	825.49 1.377e+07 2.826e+06 1.251e+07 4.087e+06-3.494e+06
16	41.93	1743.22-639.51-542.31	1646.02	471.33	9.849e+06-9.036e+05 9.366e+06-4.205e+05-2.227e+06
30	3.33	-160.47-247.75	-163.54	-244.68	-16.09-4.757e+05-8.848e+05-5.304e+05-8.301e+05-1.392e+05
596 2	17 37.26	1572.03-363.07-125.33	1334.29	635.24	1.034e+07 1.924e+06 9.375e+06 2.894e+06-2.688e+06
16	32.01	1261.21-571.16-496.47	1186.51	362.34	7.327e+06-9.441e+05 6.956e+06-5.728e+05-1.713e+06
30	3.60	-202.90-270.05	-205.27	-267.68	-12.38-6.176e+05-9.324e+05-6.597e+05-8.903e+05-1.071e+05
597 1	16 43.21	1665.18-824.12-339.06	1180.12	985.99	1.031e+07-5.795e+05 8.248e+06 1.483e+06-4.268e+06
15	39.39	1268.52-1146.56-920.57	1042.53	703.35	6.164e+06-4.610e+06 5.098e+06-3.544e+06-3.217e+06
30	3.36	-171.53-256.85	-179.24	-249.15	-24.46-4.956e+05-8.855e+05-6.077e+05-7.734e+05-1.765e+05
597 2	16 32.97	1201.71-713.71-340.45	828.45	758.70	7.683e+06-6.953e+05 6.097e+06 8.913e+05-3.283e+06
15	30.25	896.02-961.18	-787.44	722.28	540.82 4.492e+06-3.795e+06 3.673e+06-2.975e+06-2.474e+06
30	3.63	-211.41-277.05	-217.34	-271.12	-18.81-6.330e+05-9.329e+05-7.192e+05-8.466e+05-1.358e+05
598 1	15 39.83	1151.55-1304.69-614.07	460.92	1104.25	6.604e+06-4.229e+06 3.595e+06-1.219e+06-4.852e+06
14	40.68	782.89-1668.34-1268.84	383.39	905.35	2.417e+06-8.390e+06 5.742e+05-6.548e+06-4.064e+06





30	3.39	-181.94-266.73	-196.83	-251.84	-32.26-5.113e+05	-8.893e+05	-6.920e+05	-7.086e+05	-1.888e+05
598 2	15 30.57	806.61-1083.38	-551.99	275.22	849.67 4.831e+06	-3.502e+06	2.517e+06	-1.188e+06	-3.732e+06
14	31.47	522.45-1362.54	-1055.34	215.25	696.20 1.610e+06	-6.703e+06	1.929e+05	-5.286e+06	-3.126e+06
30	3.66	-219.42-284.64	-230.87	-273.19	-24.82-6.450e+05	-9.358e+05	-7.840e+05	-7.968e+05	-1.453e+05
599 1	30 3.43	-191.05-277.42	-241.48	-226.98	-42.57-5.210e+05	-8.948e+05	-8.609e+05	-5.548e+05	-1.073e+05
14	40.13	630.26-1791.13	-145.44	-1015.43	1129.85 2.813e+06	-7.966e+06	-4.484e+06	-6.695e+05	-5.041e+06
13	45.37	305.37-2179.83	-844.08	-1030.38	1239.10-1.233e+06	-1.208e+07	-7.201e+06	-6.109e+06	-5.394e+06
599 2	30 3.70	-226.43-292.86	-265.22	-254.07	-32.75-6.525e+05	-9.400e+05	-9.140e+05	-6.786e+05	-8.252e+04
14	31.02	405.60-1457.55	-191.35	-860.60	869.40 1.915e+06	-6.377e+06	-3.697e+06	-7.647e+05	-3.878e+06
13	35.25	155.13-1755.99	-728.76	-872.10	952.87-1.198e+06	-9.538e+06	-5.788e+06	-4.949e+06	-4.149e+06
600 1	30 3.46	-198.42-288.72	-262.24	-224.89	-41.11-5.252e+05	-8.990e+05	-8.941e+05	-5.301e+05	-4.252e+04
13	44.07	126.44-2264.57	-410.58	-1727.55	997.81-8.956e+05	-1.163e+07	-9.181e+06	-3.347e+06	-4.507e+06
12	51.95	-145.14-2656.71	-1060.75	-1741.10	1208.84-4.631e+06	-1.551e+07	-1.172e+07	-8.417e+06	-5.180e+06
600 2	30 3.72	-232.10-301.55	-281.19	-252.46	-31.62-6.557e+05	-9.433e+05	-9.395e+05	-6.595e+05	-3.271e+04
13	34.23	18.02-1821.71	-395.30	-1408.39	767.83-9.379e+05	-9.197e+06	-7.311e+06	-2.824e+06	-3.467e+06
12	40.42	-191.40-2122.84	-895.43	-1418.80	929.59-3.812e+06	-1.218e+07	-9.264e+06	-6.724e+06	-3.985e+06

Elem.	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		-5128.90	-3479.64	-5125.36	-1406.34		-2.422e+07	-2.407e+07	-1.498e+07	-5.394e+06	
	165.68	4643.89	3145.03	4642.47	1449.43	2.282e+07		2.251e+07	1.399e+07	5.329e+06	



### 13. VERIFICHE ELEMENTI PARETE E/O GUSCIO IN C.A.

#### 13.1. 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 involuppo 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 fattore 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 <b>ok</b> o <b>NV</b>
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 My Mxy	Sforzi flessionali per gusci orizzontali

Nodo	numero del nodo
Stato	codice di verifica dell'elemento <b>ok</b> o <b>NV</b>
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 attinge il massimo valore
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



Vrds 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
Vrds 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 $Ned/(bw f_{yd})$

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 <b>ok</b> o <b>NV</b>
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

### 13.2. 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	120.00	9	1	Singolo elemento

Nodo	Statox/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
								N/mm	N/mm	N/mm	N	N	N
31	ok 0.06	5.84e-02	2.42e-04	70.7	70.7	70.7	70.7	-7.3	288.2	16.5	653.5-1.692e+05	8752.4	
33	ok 0.06	5.35e-02	2.27e-04	70.7	70.7	70.7	70.7	25.6	223.3	-87.7-3.505e+04-1.204e+05	6.597e+04		
34	ok 0.06	4.76e-02	2.07e-04	70.7	70.7	70.7	70.7	61.2	157.3	-105.8-6.113e+04-7.811e+04	6.990e+04		
35	ok 0.06	4.00e-02	1.78e-04	70.7	70.7	70.7	70.7	89.4	90.8	-96.2-7.875e+04-3.875e+04	5.610e+04		
36	ok 0.06	3.08e-02	1.43e-04	70.7	70.7	70.7	70.7	138.5	32.4	-72.0-7.062e+04-1.605e+04	3.666e+04		
37	ok 0.06	2.08e-02	1.02e-04	70.7	70.7	70.7	70.7	119.6	6.0	-32.4-5.732e+04	939.3	1.149e+04	
38	ok 0.06	1.06e-02	5.81e-05	70.7	70.7	70.7	70.7	37.6	-1.0	-6.3-2.977e+04	632.7	-8942.7	
39	ok 0.06	5.32e-03	4.07e-04	70.7	70.7	70.7	70.7	24.5	0.9	3.6	8996.7	-363.3-1.097e+04	
40	ok 0.06	1.42e-02	1.90e-03	70.7	70.7	70.7	70.7	-60.2	-3.0	-15.93.819e+04	-2535.1	5092.3	
41	ok 0.06	5.74e-02	2.39e-04	70.7	70.7	70.7	70.7	-1.3	274.8	43.9-1.118e+04-1.548e+05	-4.353e+04		
42	ok 0.06	5.40e-02	2.28e-04	70.7	70.7	70.7	70.7	26.5	228.3	89.8-3.510e+04-1.218e+05	-6.642e+04		
43	ok 0.06	4.85e-02	2.08e-04	70.7	70.7	70.7	70.7	63.7	162.6	109.5-6.176e+04-7.977e+04	-7.099e+04		
44	ok 0.06	4.11e-02	1.80e-04	70.7	70.7	70.7	70.7	94.1	95.1	100.7-8.039e+04-4.022e+04	-5.771e+04		
45	ok 0.06	3.22e-02	1.46e-04	70.7	70.7	70.7	70.7	145.5	34.1	75.9-7.331e+04-1.749e+04	-3.865e+04		
46	ok 0.06	2.24e-02	1.06e-04	70.7	70.7	70.7	70.7	127.8	6.3	34.7-6.145e+04	189.5-1.327e+04		
47	ok 0.06	1.22e-02	6.25e-05	70.7	70.7	70.7	70.7	45.2	-0.9	7.5-3.522e+04	633.5	8562.4	
48	ok 0.06	4.15e-03	2.25e-04	70.7	70.7	70.7	70.7	-7.6	-0.6	0.2	1445.5	-3792.7	1.008e+04
49	ok 0.06	1.22e-02	1.77e-03	70.7	70.7	70.7	70.7	-19.0	-1.6	8.13.681e+04	-2663.0	1239.2	
50	ok 0.06	2.18e-02	3.19e-03	70.7	70.7	70.7	70.7	-85.7	-20.1	44.45.020e+04	8991.4-2.413e+04		
51	ok 0.06	3.04e-02	4.43e-03	70.7	70.7	70.7	70.7	-57.6	-58.5	62.36.272e+04	2.692e+04-4.188e+04		
52	ok 0.06	3.75e-02	5.43e-03	70.7	70.7	70.7	70.7	-43.4	-111.7	75.35.103e+04	6.018e+04-5.598e+04		
53	ok 0.06	4.28e-02	6.14e-03	70.7	70.7	70.7	70.7	-19.0	-166.5	65.63.031e+04	9.707e+04-5.486e+04		
54	ok 0.06	4.61e-02	6.52e-03	70.7	70.7	70.7	70.7	1.2	-207.4	33.11.033e+04	1.272e+05-3.732e+04		
55	ok 0.06	4.73e-02	6.58e-03	70.7	70.7	70.7	70.7	5.8	-221.8	-12.8	-192.9	1.412e+05	-8300.9
56	ok 0.06	4.66e-02	6.52e-03	70.7	70.7	70.7	70.7	1.1	-208.0	-33.11.015e+04	1.286e+05	3.726e+04	
57	ok 0.06	4.37e-02	6.14e-03	70.7	70.7	70.7	70.7	-19.0	-167.5	-65.73.055e+04	9.972e+04	5.580e+04	
58	ok 0.06	3.89e-02	5.45e-03	70.7	70.7	70.7	70.7	-43.6	-112.9	-75.95.238e+04	6.310e+04	5.801e+04	
59	ok 0.06	3.21e-02	4.47e-03	70.7	70.7	70.7	70.7	-58.4	-59.9	-63.56.569e+04	2.928e+04	4.455e+04	
60	ok 0.06	2.37e-02	3.27e-03	70.7	70.7	70.7	70.7	-88.1	-20.3	-45.55.435e+04	1.099e+04	2.700e+04	
61	ok 0.06	5.71e-02	2.39e-04	70.7	70.7	70.7	70.7	-1.4	271.5	-43.3-1.133e+04-1.540e+05	4.363e+04		
91	ok 0.06	5.21e-02	4.29e-03	70.7	70.7	70.7	70.7	-86.3	-30.0	-69.81.481e+05-3.463e+04	4.374e+04		
92	ok 0.06	5.04e-02	3.05e-03	70.7	70.7	70.7	70.7	-82.6	-19.4	-41.91.386e+05-7.395e+04	-2.876e+04		
93	ok 0.06	4.73e-02	1.69e-03	70.7	70.7	70.7	70.7	-41.9	15.3	0.91.156e+05-6.126e+04	-7.689e+04		
94	ok 0.06	4.28e-02	5.97e-04	70.7	70.7	70.7	70.7	13.5	9.2	15.44.489e+04-2.562e+04	-1.161e+05		
95	ok 0.06	4.77e-02	4.64e-04	70.7	70.7	70.7	70.7	52.8	-13.7	11.9-6.727e+04-2.471e+04	-1.147e+05		
96	ok 0.06	5.34e-02	5.20e-04	70.7	70.7	70.7	70.7	103.7	-15.3	-16.7-1.375e+05-5.946e+04	-7.203e+04		
97	ok 0.06	5.78e-02	5.86e-04	70.7	70.7	70.7	70.7	128.2	36.3	-74.5-1.581e+05-6.945e+04	-2.031e+04		





98	ok	0.06	6.09e-02	6.40e-04	70.7	70.7	70.7	70.7	124.9	53.1	-104.7-1.659e+05	2.679e+04	5.521e+04	
99	ok	0.06	6.26e-02	6.73e-04	70.7	70.7	70.7	70.7	91.6	123.0	-129.2-1.250e+05	-3.694e+04	9.336e+04	
100	ok	0.06	6.33e-02	6.84e-04	70.7	70.7	70.7	70.7	44.1	199.5	-122.4-6.998e+04	-1.084e+05	9.357e+04	
101	ok	0.06	6.31e-02	6.71e-04	70.7	70.7	70.7	70.7	1.2	262.2	-82.6-2.469e+04	-1.628e+05	5.691e+04	
102	ok	0.06	6.25e-02	6.33e-04	70.7	70.7	70.7	70.7	-19.9	294.0	19.0	-7973.3-1.808e+05	5320.4	
103	ok	0.06	6.30e-02	6.64e-04	70.7	70.7	70.7	70.7	1.3	265.4	82.7-2.332e+04	-1.649e+05	-5.357e+04	
104	ok	0.06	6.32e-02	6.83e-04	70.7	70.7	70.7	70.7	44.7	204.2	124.2-6.769e+04	-1.122e+05	-9.159e+04	
105	ok	0.06	6.26e-02	6.76e-04	70.7	70.7	70.7	70.7	93.9	127.9	132.8-1.227e+05	-4.175e+04	-9.326e+04	
106	ok	0.06	6.10e-02	6.47e-04	70.7	70.7	70.7	70.7	129.7	56.6	109.1-1.647e+05	2.213e+04	-5.694e+04	
107	ok	0.06	5.81e-02	5.96e-04	70.7	70.7	70.7	70.7	134.1	38.3	78.9-1.594e+05	6.595e+04	1.720e+04	
108	ok	0.06	5.39e-02	5.31e-04	70.7	70.7	70.7	70.7	112.0	-15.3	18.9-1.408e+05	5.746e+04	6.900e+04	
109	ok	0.06	4.85e-02	4.71e-04	70.7	70.7	70.7	70.7	60.8	-14.2	-11.8-7.262e+04	2.405e+04	1.128e+05	
110	ok	0.06	4.19e-02	5.51e-04	70.7	70.7	70.7	70.7	20.0	8.9	-16.23.851e+04	-2.593e+04	1.166e+05	
111	ok	0.06	4.63e-02	1.56e-03	70.7	70.7	70.7	70.7	-37.3	15.6	-2.51.102e+05	-6.268e+04	7.955e+04	
112	ok	0.06	4.97e-02	2.96e-03	70.7	70.7	70.7	70.7	-80.7	-18.2	39.91.351e+05	-7.720e+04	3.239e+04	
113	ok	0.06	5.16e-02	4.23e-03	70.7	70.7	70.7	70.7	-84.8	-28.6	68.51.482e+05	-4.034e+04	-4.078e+04	
114	ok	0.06	5.23e-02	5.28e-03	70.7	70.7	70.7	70.7	-67.0	-83.6	93.21.136e+05	1.695e+04	-7.937e+04	
115	ok	0.06	5.19e-02	6.05e-03	70.7	70.7	70.7	70.7	-33.3	-146.2	92.46.412e+04	8.280e+04	-8.276e+04	
116	ok	0.06	5.11e-02	6.51e-03	70.7	70.7	70.7	70.7	-0.7	-198.2	63.62.250e+04	1.338e+05	-5.137e+04	
117	ok	0.06	5.04e-02	6.64e-03	70.7	70.7	70.7	70.7	15.3	-224.1	-15.0	6878.9	1.509e+05	-6213.0
118	ok	0.06	5.11e-02	6.51e-03	70.7	70.7	70.7	70.7	8.6	-214.8	-37.02.354e+04	1.292e+05	5.219e+04	
119	ok	0.06	5.19e-02	6.07e-03	70.7	70.7	70.7	70.7	-33.8	-147.4	-92.86.116e+04	8.869e+04	8.056e+04	
120	ok	0.06	5.25e-02	5.31e-03	70.7	70.7	70.7	70.7	-67.7	-85.0	-94.01.113e+05	2.368e+04	8.005e+04	

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
								-88.12-224.11	-129.17-1.659e+05	-1.808e+05	-1.161e+05		
	0.06	0.06	6.64e-03	70.69	70.69	70.69	70.69	145.52	294.03	132.751.482e+05	1.509e+05	1.166e+05	

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2				N/mm	N/mm	
31ok		2.00						
33ok		2.90						
34ok		3.18						
35ok		3.33						
36ok		3.34						
37ok		3.21						
38ok		2.94						
39ok		2.77						
40ok		3.01						
41ok		2.43						
42ok		2.84						
43ok		3.14						
44ok		3.31						
45ok		3.33						
46ok		3.22						
47ok		2.98						



48ok	2.70
49ok	2.96
50ok	3.10
51ok	3.09
52ok	2.94
53ok	2.67
54ok	2.27
55ok	1.78
56ok	2.18
57ok	2.60
58ok	2.90
59ok	3.08
60ok	3.11
61ok	2.50
91ok	1.53
92ok	1.34
93ok	1.10
94ok	0.81
95ok	0.95
96ok	1.25
97ok	1.52
98ok	1.72
99ok	1.86
100	ok 1.92
101	ok 1.91
102	ok 1.81
103	ok 1.90
104	ok 1.92
105	ok 1.87
106	ok 1.74
107	ok 1.55
108	ok 1.29
109	ok 1.00
110	ok 0.75
111	ok 1.05
112	ok 1.30
113	ok 1.50
114	ok 1.64
115	ok 1.70
116	ok 1.69
117	ok 1.60
118	ok 1.68
119	ok 1.70
120	ok 1.66



3.34

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
2	127.00	9	1	Singolo elemento

Nodo	Statox/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
				N/mm				N/mm	N/mm	N	N	N	
91	ok 0.06	5.19e-02	3.39e-03	70.7	70.7	70.7	70.7	-55.8	-42.9	-62.61.517e+05	-3.806e+04	4.530e+04	
92	ok 0.06	4.87e-02	2.38e-03	70.7	70.7	70.7	70.7	-57.8	-6.9	-34.11.490e+05	-6.979e+04	-1.895e+04	
93	ok 0.06	4.44e-02	1.27e-03	70.7	70.7	70.7	70.7	-45.1	10.1	2.81.169e+05	-5.925e+04	-7.383e+04	
94	ok 0.06	3.91e-02	3.74e-04	70.7	70.7	70.7	70.7	2.9	1.7	15.54.100e+04	-2.400e+04	-1.138e+05	
95	ok 0.06	4.42e-02	2.53e-04	70.7	70.7	70.7	70.7	60.4	-6.8	12.2-6.723e+04	2.382e+04	-1.120e+05	
96	ok 0.06	5.09e-02	3.57e-04	70.7	70.7	70.7	70.7	104.1	-11.0	-14.0-1.423e+05	5.775e+04	-6.755e+04	
97	ok 0.06	5.67e-02	4.69e-04	70.7	70.7	70.7	70.7	100.4	22.0	-65.6-1.715e+05	6.484e+04	-8277.3	
98	ok 0.06	6.14e-02	5.73e-04	70.7	70.7	70.7	70.7	84.3	72.1	-97.0-1.706e+05	2.834e+04	5.909e+04	
99	ok 0.06	6.51e-02	6.60e-04	70.7	70.7	70.7	70.7	85.5	104.7	-118.2-1.295e+05	-5.359e+04	1.059e+05	
100	ok 0.06	6.75e-02	7.24e-04	70.7	70.7	70.7	70.7	39.5	171.4	-113.4-7.031e+04	-1.326e+05	1.046e+05	
101	ok 0.06	6.88e-02	7.63e-04	70.7	70.7	70.7	70.7	-21.1	243.0	-38.8-2.421e+04	-1.864e+05	6.936e+04	
102	ok 0.06	6.91e-02	7.74e-04	70.7	70.7	70.7	70.7	-25.8	254.1	21.9	-3108.2	-2.141e+05	5646.4
103	ok 0.06	6.89e-02	7.68e-04	70.7	70.7	70.7	70.7	-21.5	245.8	38.6-2.282e+04	-1.890e+05	-6.624e+04	
104	ok 0.06	6.77e-02	7.35e-04	70.7	70.7	70.7	70.7	39.6	175.6	115.1-6.805e+04	-1.367e+05	-1.029e+05	
105	ok 0.06	6.53e-02	6.75e-04	70.7	70.7	70.7	70.7	87.3	108.9	121.6-1.274e+05	-5.870e+04	-1.062e+05	
106	ok 0.06	6.18e-02	5.92e-04	70.7	70.7	70.7	70.7	87.6	76.0	101.2-1.701e+05	2.344e+04	-6.142e+04	
107	ok 0.06	5.72e-02	4.90e-04	70.7	70.7	70.7	70.7	105.8	24.1	69.7-1.734e+05	6.128e+04	4868.0	
108	ok 0.06	5.16e-02	3.78e-04	70.7	70.7	70.7	70.7	111.3	-11.4	16.0-1.464e+05	5.580e+04	6.420e+04	
109	ok 0.06	4.51e-02	2.72e-04	70.7	70.7	70.7	70.7	67.0	-7.7	-12.3-7.371e+04	2.329e+04	1.100e+05	
110	ok 0.06	3.81e-02	3.31e-04	70.7	70.7	70.7	70.7	7.8	1.1	-15.93.346e+04	-2.420e+04	1.145e+05	
111	ok 0.06	4.32e-02	1.19e-03	70.7	70.7	70.7	70.7	-42.1	9.9	-3.81.104e+05	-6.066e+04	7.690e+04	
112	ok 0.06	4.77e-02	2.33e-03	70.7	70.7	70.7	70.7	-57.3	-5.9	32.71.447e+05	-7.324e+04	2.309e+04	
113	ok 0.06	5.11e-02	3.37e-03	70.7	70.7	70.7	70.7	-56.3	-41.9	62.11.505e+05	-4.396e+04	-4.156e+04	
114	ok 0.06	5.35e-02	4.24e-03	70.7	70.7	70.7	70.7	-63.1	-69.5	84.31.168e+05	3.033e+04	-8.888e+04	
115	ok 0.06	5.49e-02	4.88e-03	70.7	70.7	70.7	70.7	-30.3	-123.1	84.96.433e+04	1.026e+05	-9.146e+04	
116	ok 0.06	5.56e-02	5.26e-03	70.7	70.7	70.7	70.7	16.9	-180.6	28.72.273e+04	1.520e+05	-6.267e+04	
117	ok 0.06	5.57e-02	5.37e-03	70.7	70.7	70.7	70.7	20.3	-189.3	-17.6	2930.3	1.789e+05	-6504.6
118	ok 0.06	5.58e-02	5.26e-03	70.7	70.7	70.7	70.7	16.9	-180.7	-28.42.081e+04	1.562e+05	5.859e+04	
119	ok 0.06	5.53e-02	4.88e-03	70.7	70.7	70.7	70.7	-30.0	-122.9	-85.06.149e+04	1.091e+05	8.966e+04	
120	ok 0.06	5.41e-02	4.24e-03	70.7	70.7	70.7	70.7	-63.0	-69.4	-84.51.148e+05	3.764e+04	9.015e+04	
121	ok 0.06	6.52e-02	1.42e-03	70.7	70.7	70.7	70.7	-42.9	30.2	12.01.618e+05	-8.616e+04	-1.222e+05	
122	ok 0.06	5.87e-02	8.95e-04	70.7	70.7	70.7	70.7	11.4	15.2	26.55.825e+04	-3.711e+04	-1.739e+05	
123	ok 0.06	6.55e-02	8.94e-04	70.7	70.7	70.7	70.7	55.5	-24.5	25.2-8.693e+04	3.204e+04	-1.737e+05	
124	ok 0.06	7.34e-02	1.01e-03	70.7	70.7	70.7	70.7	105.9	-35.8	-4.7-1.908e+05	8.082e+04	-1.183e+05	
125	ok 0.06	7.90e-02	1.14e-03	70.7	70.7	70.7	70.7	131.8	-24.4	-52.6-2.486e+05	8.748e+04	-3.108e+04	



126	ok	0.06	8.22e-02	1.24e-03	70.7	70.7	70.7	70.7	124.9	16.8	-101.3-2.493e+05	4.324e+04	5.664e+04
127	ok	0.06	8.31e-02	1.30e-03	70.7	70.7	70.7	70.7	88.3	83.0	-131.9-2.022e+05	-4.067e+04	1.138e+05
128	ok	0.06	8.21e-02	1.32e-03	70.7	70.7	70.7	70.7	35.8	159.1	-130.7-1.327e+05	-1.371e+05	1.213e+05
129	ok	0.06	8.01e-02	1.30e-03	70.7	70.7	70.7	70.7	-13.0	224.4	-94.8-7.289e+04	-2.130e+05	7.904e+04
130	ok	0.06	7.82e-02	1.23e-03	70.7	70.7	70.7	70.7	-40.0	260.3	-33.4-4.840e+04	-2.422e+05	6029.3
131	ok	0.06	7.97e-02	1.29e-03	70.7	70.7	70.7	70.7	-13.2	227.5	94.3-7.112e+04	-2.162e+05	-7.409e+04
132	ok	0.06	8.17e-02	1.32e-03	70.7	70.7	70.7	70.7	35.9	163.6	132.1-1.298e+05	-1.428e+05	-1.182e+05
133	ok	0.06	8.28e-02	1.31e-03	70.7	70.7	70.7	70.7	89.9	87.3	135.2-1.993e+05	-4.780e+04	-1.133e+05
134	ok	0.06	8.22e-02	1.25e-03	70.7	70.7	70.7	70.7	129.0	19.5	105.5-2.479e+05	3.617e+04	-5.862e+04
135	ok	0.06	7.93e-02	1.16e-03	70.7	70.7	70.7	70.7	138.2	-23.7	56.1-2.499e+05	58.173e+04	2.746e+04
136	ok	0.06	7.41e-02	1.04e-03	70.7	70.7	70.7	70.7	113.4	-36.7	6.3-1.953e+05	7.705e+04	1.145e+05
137	ok	0.06	6.66e-02	9.19e-04	70.7	70.7	70.7	70.7	62.4	-25.7	-25.8-9.417e+04	2.999e+04	1.713e+05
138	ok	0.06	5.71e-02	9.00e-04	70.7	70.7	70.7	70.7	16.4	14.4	-27.14.966e+04	-3.866e+04	1.742e+05
139	ok	0.06	6.38e-02	1.37e-03	70.7	70.7	70.7	70.7	-39.6	30.1	-13.31.544e+05	-8.903e+04	1.253e+05
140	ok	0.06	6.82e-02	2.36e-03	70.7	70.7	70.7	70.7	-76.8	28.8	22.22.160e+05	-1.001e+05	4.356e+04
141	ok	0.06	7.03e-02	3.38e-03	70.7	70.7	70.7	70.7	-84.7	1.6	63.92.227e+05	-6.236e+04	-4.091e+04
142	ok	0.06	7.00e-02	4.26e-03	70.7	70.7	70.7	70.7	-64.1	-48.9	93.51.827e+05	1.423e+04	-9.794e+04
143	ok	0.06	6.80e-02	4.93e-03	70.7	70.7	70.7	70.7	-26.7	-110.0	97.41.198e+05	1.041e+05	-1.085e+05
144	ok	0.06	6.52e-02	5.34e-03	70.7	70.7	70.7	70.7	10.4	-163.1	72.16.445e+04	1.758e+05	-7.196e+04
145	ok	0.06	6.31e-02	5.48e-03	70.7	70.7	70.7	70.7	30.9	-191.5	25.64.153e+04	2.038e+05	-5798.3
146	ok	0.06	6.47e-02	5.34e-03	70.7	70.7	70.7	70.7	10.0	-163.8	-72.16.181e+04	1.807e+05	6.531e+04
147	ok	0.06	6.76e-02	4.92e-03	70.7	70.7	70.7	70.7	-27.0	-110.7	-97.51.159e+05	1.127e+05	1.051e+05
148	ok	0.06	7.00e-02	4.27e-03	70.7	70.7	70.7	70.7	-64.6	-49.7	-93.81.798e+05	2.401e+04	9.850e+04
149	ok	0.06	7.07e-02	3.41e-03	70.7	70.7	70.7	70.7	-85.5	0.8	-64.72.230e+05	-5.392e+04	4.450e+04
150	ok	0.06	6.92e-02	2.41e-03	70.7	70.7	70.7	70.7	-78.5	28.2	-23.52.202e+05	-9.449e+04	-3.906e+04

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
								-85.53-191.52	-131.88-2.499e+05	-2.422e+05	-1.739e+05		
	0.06	0.08	5.48e-03	70.69	70.69	70.69	70.69	138.18	260.27	135.162.230e+05	2.038e+05	1.742e+05	

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2				N/mm	N/mm	
91ok		1.77						
92ok		1.56						
93ok		1.27						
94ok		0.94						
95ok		1.11						
96ok		1.46						
97ok		1.76						
98ok		1.99						
99ok		2.14						
100	ok	2.21						
101	ok	2.18						
102	ok	2.07						
103	ok	2.17						
104	ok	2.21						



105	ok	2.15
106	ok	2.01
107	ok	1.80
108	ok	1.51
109	ok	1.16
110	ok	0.87
111	ok	1.21
112	ok	1.51
113	ok	1.73
114	ok	1.88
115	ok	1.95
116	ok	1.93
117	ok	1.82
118	ok	1.91
119	ok	1.95
120	ok	1.91
121	ok	0.71
122	ok	0.42
123	ok	0.52
124	ok	0.85
125	ok	1.17
126	ok	1.46
127	ok	1.69
128	ok	1.85
129	ok	1.94
130	ok	1.95
131	ok	1.95
132	ok	1.87
133	ok	1.71
134	ok	1.49
135	ok	1.22
136	ok	0.90
137	ok	0.57
138	ok	0.38
139	ok	0.66
140	ok	0.96
141	ok	1.24
142	ok	1.47
143	ok	1.63
144	ok	1.72
145	ok	1.73
146	ok	1.73
147	ok	1.65
148	ok	1.51
149	ok	1.29
150	ok	1.02



Nodo Max tauVer V pr Ver V sec Af V pr Af V sec V pr V sec  
2.21

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
3	135.00	9	1	Singolo elemento

Nodo	Statox/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
								N/mm	N/mm	N/mm	N	N	N
121	ok 0.06	6.28e-02	1.24e-03	70.7	70.7	70.7	70.7	-43.0	22.0	15.61.689e+05-8.672e+04-1.223e+05			
122	ok 0.06	5.56e-02	6.51e-04	70.7	70.7	70.7	70.7	0.7	4.3	26.85.622e+04-3.629e+04-1.770e+05			
123	ok 0.06	6.26e-02	5.77e-04	70.7	70.7	70.7	70.7	61.7	-13.9	25.4-9.001e+043.219e+04-1.760e+05			
124	ok 0.06	7.13e-02	7.44e-04	70.7	70.7	70.7	70.7	101.7	-27.9	-0.2-2.025e+058.176e+04-1.165e+05			
125	ok 0.06	7.82e-02	9.14e-04	70.7	70.7	70.7	70.7	121.1	-23.1	-41.5-2.647e+058.549e+04-2.242e+04			
126	ok 0.06	8.30e-02	1.06e-03	70.7	70.7	70.7	70.7	112.5	6.7	-84.2-2.646e+053.372e+04 7.192e+04			
127	ok 0.06	8.58e-02	1.18e-03	70.7	70.7	70.7	70.7	78.3	58.4	-112.2-2.121e+05-6.125e+04 1.324e+05			
128	ok 0.06	8.69e-02	1.26e-03	70.7	70.7	70.7	70.7	30.0	119.6	-113.6-1.353e+05-1.696e+05 1.380e+05			
129	ok 0.06	8.67e-02	1.30e-03	70.7	70.7	70.7	70.7	-15.9	173.2	-85.4-6.919e+04-2.547e+05 8.855e+04			
130	ok 0.06	8.60e-02	1.29e-03	70.7	70.7	70.7	70.7	-43.6	203.1	-34.8-4.235e+04-2.879e+05 4871.4			
131	ok 0.06	8.66e-02	1.30e-03	70.7	70.7	70.7	70.7	-16.7	175.5	84.9-6.728e+04-2.583e+05-8.359e+04			
132	ok 0.06	8.67e-02	1.28e-03	70.7	70.7	70.7	70.7	29.4	123.3	114.9-1.322e+05-1.758e+05-1.351e+05			
133	ok 0.06	8.58e-02	1.20e-03	70.7	70.7	70.7	70.7	79.2	61.8	115.2-2.092e+05-6.893e+04-1.323e+05			
134	ok 0.06	8.32e-02	1.09e-03	70.7	70.7	70.7	70.7	115.6	8.6	87.9-2.635e+052.621e+04-7.447e+04			
135	ok 0.06	7.87e-02	9.47e-04	70.7	70.7	70.7	70.7	126.1	-23.2	44.5-2.667e+057.951e+04 1.816e+04			
136	ok 0.06	7.22e-02	7.81e-04	70.7	70.7	70.7	70.7	107.5	-29.2	1.4-2.081e+057.799e+04 1.121e+05			
137	ok 0.06	6.38e-02	6.15e-04	70.7	70.7	70.7	70.7	66.5	-15.3	-26.3-9.877e+043.028e+04 1.734e+05			
138	ok 0.06	5.39e-02	6.28e-04	70.7	70.7	70.7	70.7	3.6	3.4	-27.04.603e+04-3.770e+04 1.775e+05			
139	ok 0.06	6.12e-02	1.22e-03	70.7	70.7	70.7	70.7	-41.9	21.3	-16.11.599e+05-8.964e+04 1.260e+05			
140	ok 0.06	6.68e-02	1.97e-03	70.7	70.7	70.7	70.7	-71.9	25.7	14.02.272e+05-9.912e+04 3.861e+04			
141	ok 0.06	7.02e-02	2.68e-03	70.7	70.7	70.7	70.7	-77.0	8.5	50.32.347e+05-5.560e+04-5.195e+04			
142	ok 0.06	7.17e-02	3.26e-03	70.7	70.7	70.7	70.7	-57.5	-29.2	77.31.910e+05 3.026e+04-1.126e+05			
143	ok 0.06	7.16e-02	3.67e-03	70.7	70.7	70.7	70.7	-22.8	-76.8	83.31.223e+05 1.305e+05-1.222e+05			
144	ok 0.06	7.06e-02	3.89e-03	70.7	70.7	70.7	70.7	12.3	-119.1	64.56.167e+04 2.105e+05-7.991e+04			
145	ok 0.06	6.98e-02	3.90e-03	70.7	70.7	70.7	70.7	33.9	-141.9	27.33.669e+04 2.422e+05 -4842.5			
146	ok 0.06	7.06e-02	3.87e-03	70.7	70.7	70.7	70.7	12.6	-118.4	-64.45.891e+04 2.161e+05 7.329e+04			
147	ok 0.06	7.16e-02	3.64e-03	70.7	70.7	70.7	70.7	-22.4	-75.7	-82.91.183e+05 1.400e+05 1.191e+05			
148	ok 0.06	7.20e-02	3.22e-03	70.7	70.7	70.7	70.7	-56.8	-28.0	-76.91.884e+05 4.100e+04 1.138e+05			
149	ok 0.06	7.10e-02	2.65e-03	70.7	70.7	70.7	70.7	-76.3	9.3	-49.92.357e+05-4.642e+04 5.643e+04			
150	ok 0.06	6.80e-02	1.97e-03	70.7	70.7	70.7	70.7	-71.7	26.3	-14.12.326e+05-9.314e+04-3.325e+04			
151	ok 0.06	8.00e-02	1.33e-03	70.7	70.7	70.7	70.7	-42.5	53.9	27.32.080e+05-1.056e+05-1.638e+05			
152	ok 0.06	7.05e-02	1.29e-03	70.7	70.7	70.7	70.7	11.5	26.6	37.56.685e+04-5.201e+04-2.235e+05			
153	ok 0.06	7.91e-02	1.60e-03	70.7	70.7	70.7	70.7	56.7	-43.1	44.1-1.052e+054.090e+04-2.283e+05			



154	ok	0.06	9.21e-02	1.90e-03	70.7	70.7	70.7	70.7	109.6	-69.6	16.1-2.489e+05	9.628e+04	-1.642e+05
155	ok	0.06	0.1	2.15e-03	70.7	70.7	70.7	70.7	140.7	-74.8	-35.5-3.386e+05	1.029e+05	-5.742e+04
156	ok	0.06	0.1	2.33e-03	70.7	70.7	70.7	70.7	138.0	-47.8	-94.4-3.576e+05	4.805e+04	5.487e+04
157	ok	0.06	0.1	2.43e-03	70.7	70.7	70.7	70.7	101.1	10.8	-140.0-3.141e+05	-5.710e+04	1.341e+05
158	ok	0.06	0.1	2.44e-03	70.7	70.7	70.7	70.7	42.0	88.2	-154.9-2.369e+05	-1.810e+05	1.548e+05
159	ok	0.06	0.1	2.37e-03	70.7	70.7	70.7	70.7	-19.5	163.4	-132.0-1.641e+05	-2.836e+05	1.141e+05
160	ok	0.06	0.1	2.20e-03	70.7	70.7	70.7	70.7	-62.4	215.1	-76.8-1.282e+05	-3.313e+05	3.209e+04
161	ok	0.06	0.1	2.33e-03	70.7	70.7	70.7	70.7	-19.8	166.2	130.9-1.626e+05	-2.880e+05	-1.078e+05
162	ok	0.06	0.1	2.43e-03	70.7	70.7	70.7	70.7	41.9	92.0	156.0-2.344e+05	-1.886e+05	-1.509e+05
163	ok	0.06	0.1	2.44e-03	70.7	70.7	70.7	70.7	102.6	14.0	143.0-3.120e+05	-6.662e+04	-1.332e+05
164	ok	0.06	0.1	2.36e-03	70.7	70.7	70.7	70.7	141.9	-46.6	98.1-3.575e+05	3.836e+04	-5.681e+04
165	ok	0.06	0.1	2.19e-03	70.7	70.7	70.7	70.7	146.8	-75.8	38.1-3.417e+05	9.454e+04	5.364e+04
166	ok	0.06	9.35e-02	1.96e-03	70.7	70.7	70.7	70.7	116.4	-71.9	-15.9-2.559e+05	8.991e+04	1.603e+05
167	ok	0.06	8.10e-02	1.67e-03	70.7	70.7	70.7	70.7	62.2	-45.1	-46.3-1.154e+05	3.628e+04	2.261e+05
168	ok	0.06	6.84e-02	1.37e-03	70.7	70.7	70.7	70.7	14.8	25.3	-37.35-4.96e+04	-5.606e+04	2.230e+05
169	ok	0.06	7.77e-02	1.28e-03	70.7	70.7	70.7	70.7	-40.6	53.1	-27.61-9.72e+05	-1.109e+05	1.668e+05
170	ok	0.06	8.61e-02	2.17e-03	70.7	70.7	70.7	70.7	-80.8	66.5	8.52-8.91e+05	-1.208e+05	6.788e+04
171	ok	0.06	9.11e-02	2.98e-03	70.7	70.7	70.7	70.7	-92.3	52.8	56.53-1.38e+05	-7.230e+04	-3.852e+04
172	ok	0.06	9.24e-02	3.65e-03	70.7	70.7	70.7	70.7	-72.3	10.7	97.22-7.83e+05	2.455e+04	-1.152e+05
173	ok	0.06	9.06e-02	4.12e-03	70.7	70.7	70.7	70.7	-30.6	-49.2	114.02-0.93e+05	1.402e+05	-1.373e+05
174	ok	0.06	8.63e-02	4.38e-03	70.7	70.7	70.7	70.7	15.6	-108.7	99.61-4.33e+05	2.363e+05	-1.014e+05
175	ok	0.06	8.16e-02	4.42e-03	70.7	70.7	70.7	70.7	47.8	-148.8	58.91-1.14e+05	2.806e+05	-2.639e+04
176	ok	0.06	8.54e-02	4.39e-03	70.7	70.7	70.7	70.7	14.9	-108.8	-99.61-4.08e+05	2.432e+05	9.304e+04
177	ok	0.06	9.01e-02	4.12e-03	70.7	70.7	70.7	70.7	-31.2	-48.9	-113.92-0.58e+05	1.518e+05	1.330e+05
178	ok	0.06	9.26e-02	3.65e-03	70.7	70.7	70.7	70.7	-72.9	11.1	-97.02-7.63e+05	3.784e+04	1.158e+05
179	ok	0.06	9.20e-02	2.99e-03	70.7	70.7	70.7	70.7	-92.8	53.1	-56.43-1.60e+05	-6.052e+04	4.258e+04
180	ok	0.06	8.78e-02	2.20e-03	70.7	70.7	70.7	70.7	-81.8	66.9	-8.62-9.62e+05	-1.123e+05	-6.295e+04

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
								-92.80-148.79					
	0.06	0.11	4.42e-03	70.69	70.69	70.69	70.69	146.76	215.11	156.01	3.160e+05	2.806e+05	2.261e+05

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2				N/mm	N/mm	
121	ok	0.93						
122	ok	0.50						
123	ok	0.68						
124	ok	1.12						
125	ok	1.52						
126	ok	1.86						
127	ok	2.13						
128	ok	2.30						
129	ok	2.38						
130	ok	2.37						
131	ok	2.39						
132	ok	2.32						



133	ok	2.16
134	ok	1.90
135	ok	1.58
136	ok	1.19
137	ok	0.76
138	ok	0.43
139	ok	0.86
140	ok	1.25
141	ok	1.59
142	ok	1.85
143	ok	2.02
144	ok	2.11
145	ok	2.09
146	ok	2.11
147	ok	2.05
148	ok	1.89
149	ok	1.64
150	ok	1.32
151	ok	0.65
152	ok	0.23
153	ok	0.39
154	ok	0.81
155	ok	1.21
156	ok	1.56
157	ok	1.84
158	ok	2.05
159	ok	2.17
160	ok	2.21
161	ok	2.19
162	ok	2.07
163	ok	1.88
164	ok	1.60
165	ok	1.26
166	ok	0.88
167	ok	0.46
168	ok	0.15
169	ok	0.58
170	ok	0.97
171	ok	1.32
172	ok	1.61
173	ok	1.82
174	ok	1.94
175	ok	1.98
176	ok	1.95
177	ok	1.84
178	ok	1.65





179 ok 1.38  
180 ok 1.04

**Nodo**                      **Max tauVer V pr**    **Ver V sec**                      **Af V pr**                      **Af V sec**                      **V pr**                      **V sec**  
2.39

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
4	142.00	9	1	Singolo elemento

Nodo	Statox/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
151	ok 0.05	7.99e-02	1.83e-03	70.7	70.7	70.7	70.7	-64.6	25.5	25.92.261e+05	-1.018e+05	-1.631e+05	
152	ok 0.05	6.84e-02	1.28e-03	70.7	70.7	70.7	70.7	-25.8	-2.0	34.17.626e+04	-4.636e+04	-2.277e+05	
153	ok 0.05	7.90e-02	8.52e-04	70.7	70.7	70.7	70.7	89.0	-12.2	38.4-1.194e+05	3.632e+04	-2.309e+05	
154	ok 0.05	9.24e-02	1.00e-03	70.7	70.7	70.7	70.7	126.3	-38.0	14.1-2.710e+05	9.256e+04	-1.607e+05	
155	ok 0.05	0.1	1.33e-03	70.7	70.7	70.7	70.7	145.0	-47.9	-28.9-3.630e+05	9.560e+04	-4.568e+04	
156	ok 0.05	0.1	1.62e-03	70.7	70.7	70.7	70.7	135.9	-32.9	-77.7-3.781e+05	3.219e+04	7.355e+04	
157	ok 0.05	0.1	1.84e-03	70.7	70.7	70.7	70.7	98.7	6.9	-116.1-3.261e+05	-8.458e+04	1.552e+05	
158	ok 0.05	0.1	2.00e-03	70.7	70.7	70.7	70.7	43.0	62.0	-130.1-2.390e+05	-2.199e+05	1.722e+05	
159	ok 0.05	0.1	2.08e-03	70.7	70.7	70.7	70.7	-15.3	116.1	-114.0-1.585e+05	-3.298e+05	1.222e+05	
160	ok 0.05	0.1	2.07e-03	70.7	70.7	70.7	70.7	-59.0	152.6	-71.5-1.200e+05	-3.784e+05	2.791e+04	
161	ok 0.05	0.1	2.07e-03	70.7	70.7	70.7	70.7	-16.8	116.9	112.8-1.566e+05	-3.343e+05	-1.158e+05	
162	ok 0.05	0.1	2.01e-03	70.7	70.7	70.7	70.7	41.6	63.8	131.0-2.360e+05	-2.277e+05	-1.684e+05	
163	ok 0.05	0.1	1.88e-03	70.7	70.7	70.7	70.7	98.7	8.2	118.5-3.236e+05	-9.444e+04	-1.546e+05	
164	ok 0.05	0.1	1.67e-03	70.7	70.7	70.7	70.7	138.0	-33.3	80.6-3.779e+05	2.220e+04	-7.604e+04	
165	ok 0.05	0.1	1.40e-03	70.7	70.7	70.7	70.7	148.8	-50.1	30.6-3.666e+05	8.706e+04	4.124e+04	
166	ok 0.05	9.38e-02	1.08e-03	70.7	70.7	70.7	70.7	130.4	-41.1	-14.5-2.790e+05	8.628e+04	1.562e+05	
167	ok 0.05	8.10e-02	8.36e-04	70.7	70.7	70.7	70.7	91.6	-14.6	-40.8-1.311e+05	3.192e+04	2.284e+05	
168	ok 0.05	6.57e-02	1.26e-03	70.7	70.7	70.7	70.7	-24.7	-3.2	-33.56.272e+04	-5.022e+04	2.276e+05	
169	ok 0.05	7.76e-02	1.84e-03	70.7	70.7	70.7	70.7	-65.2	24.2	-25.22.137e+05	-1.071e+05	1.668e+05	
170	ok 0.05	8.64e-02	2.38e-03	70.7	70.7	70.7	70.7	-92.7	41.4	4.43.095e+05	-1.150e+05	6.048e+04	
171	ok 0.05	9.21e-02	2.81e-03	70.7	70.7	70.7	70.7	-96.5	38.1	44.23.321e+05	-5.994e+04	-5.270e+04	
172	ok 0.05	9.44e-02	3.09e-03	70.7	70.7	70.7	70.7	-74.3	12.6	78.72.898e+05	4.673e+04	-1.325e+05	
173	ok 0.05	9.38e-02	3.21e-03	70.7	70.7	70.7	70.7	-33.7	-27.5	94.72.124e+05	1.724e+05	-1.522e+05	
174	ok 0.05	9.10e-02	3.15e-03	70.7	70.7	70.7	70.7	11.2	-68.1	86.11.395e+05	2.753e+05	-1.087e+05	
175	ok 0.05	8.78e-02	2.92e-03	70.7	70.7	70.7	70.7	45.8	-94.4	56.41.048e+05	3.205e+05	-2.336e+04	
176	ok 0.05	9.05e-02	3.09e-03	70.7	70.7	70.7	70.7	12.0	-65.3	-86.01.365e+05	2.823e+05	1.003e+05	
177	ok 0.05	9.36e-02	3.14e-03	70.7	70.7	70.7	70.7	-32.9	-24.1	-94.12.084e+05	1.846e+05	1.481e+05	
178	ok 0.05	9.48e-02	3.02e-03	70.7	70.7	70.7	70.7	-73.1	16.0	-77.52.878e+05	6.071e+04	1.336e+05	
179	ok 0.05	9.32e-02	2.74e-03	70.7	70.7	70.7	70.7	-94.9	40.9	-42.73.347e+05	-4.759e+04	5.762e+04	
180	ok 0.05	8.82e-02	2.34e-03	70.7	70.7	70.7	70.7	-91.2	43.3	-3.23.176e+05	-1.063e+05	-5.465e+04	
181	ok 0.05	0.1	2.52e-03	70.7	70.7	70.7	70.7	-98.0	156.9	12.53.572e+05	-1.687e+05	-1.038e+05	



182	ok	0.05	0.1	1.42e-03	70.7	70.7	70.7	70.7	-38.4	117.4	49.92.120e+05-1.571e+05-2.130e+05
183	ok	0.05	9.48e-02	2.48e-03	70.7	70.7	70.7	70.7	-10.0	-53.8	61.11.331e+05 1.883e+04-2.672e+05
184	ok	0.05	9.80e-02	3.45e-03	70.7	70.7	70.7	70.7	68.3	42.2	10.5-1.755e+05-4.486e+04-2.359e+05
185	ok	0.05	0.1	4.29e-03	70.7	70.7	70.7	70.7	122.1	-156.2	57.9-2.771e+051.551e+05-2.318e+05
186	ok	0.05	0.1	4.98e-03	70.7	70.7	70.7	70.7	179.5	-194.6	-4.9-4.301e+051.733e+05-1.090e+05
187	ok	0.05	0.1	5.47e-03	70.7	70.7	70.7	70.7	198.3	-192.6	-94.0-5.009e+051.186e+05 3.997e+04
188	ok	0.05	0.2	5.75e-03	70.7	70.7	70.7	70.7	-98.3	223.4	-50.7-3.387e+05-2.975e+05 9.315e+04
189	ok	0.05	0.2	5.81e-03	70.7	70.7	70.7	70.7	92.9	-43.8	-242.2-4.096e+05-1.738e+05 2.332e+05
190	ok	0.05	0.2	5.64e-03	70.7	70.7	70.7	70.7	-3.1	72.6	-252.3-3.145e+05-3.361e+05 2.217e+05
191	ok	0.05	0.2	5.22e-03	70.7	70.7	70.7	70.7	-91.0	179.3	-208.0-2.442e+05-4.474e+05 1.444e+05
192	ok	0.05	0.2	5.53e-03	70.7	70.7	70.7	70.7	-1.9	76.5	250.6-3.154e+05-3.435e+05-2.150e+05
193	ok	0.05	0.2	5.77e-03	70.7	70.7	70.7	70.7	94.8	-40.4	243.4-4.108e+05-1.844e+05-2.296e+05
194	ok	0.05	0.2	5.77e-03	70.7	70.7	70.7	70.7	-105.2	229.4	52.7-3.325e+05-3.108e+05-9.094e+04
195	ok	0.05	0.1	5.53e-03	70.7	70.7	70.7	70.7	205.1	-194.0	97.0-5.066e+051.067e+05-4.178e+04
196	ok	0.05	0.1	5.08e-03	70.7	70.7	70.7	70.7	188.2	-198.5	5.5-4.395e+051.626e+05 1.063e+05
197	ok	0.05	0.1	4.43e-03	70.7	70.7	70.7	70.7	130.5	-160.9	-60.9-2.901e+051.460e+05 2.299e+05
198	ok	0.05	9.91e-02	3.61e-03	70.7	70.7	70.7	70.7	69.5	40.5	-5.8-1.879e+05-5.415e+04 2.289e+05
199	ok	0.05	9.25e-02	2.65e-03	70.7	70.7	70.7	70.7	-9.0	-54.1	-68.41.180e+05 1.015e+04 2.711e+05
200	ok	0.05	0.1	1.60e-03	70.7	70.7	70.7	70.7	-36.7	115.0	-47.51.948e+05-1.656e+05 2.141e+05
201	ok	0.05	0.1	2.47e-03	70.7	70.7	70.7	70.7	-96.2	154.5	-10.53.432e+05-1.805e+05 1.081e+05
202	ok	0.05	0.1	3.50e-03	70.7	70.7	70.7	70.7	-126.7	163.7	55.44.170e+05-1.300e+05-2.407e+04
203	ok	0.05	0.1	4.33e-03	70.7	70.7	70.7	70.7	61.7	-143.3	24.03.280e+05 2.119e+05-8.444e+04
204	ok	0.05	0.1	4.91e-03	70.7	70.7	70.7	70.7	-65.6	59.2	178.23.503e+05 1.368e+05-1.962e+05
205	ok	0.05	0.1	5.23e-03	70.7	70.7	70.7	70.7	4.3	-30.7	190.32.714e+05 2.830e+05-1.838e+05
206	ok	0.05	0.1	5.30e-03	70.7	70.7	70.7	70.7	68.8	-112.9	159.52.158e+05 3.799e+05-1.124e+05
207	ok	0.05	0.1	5.27e-03	70.7	70.7	70.7	70.7	1.8	-31.2	-190.52.716e+05 2.946e+05 1.751e+05
208	ok	0.05	0.1	4.95e-03	70.7	70.7	70.7	70.7	-68.3	60.0	-178.23.506e+05 1.535e+05 1.924e+05
209	ok	0.05	0.1	4.37e-03	70.7	70.7	70.7	70.7	67.0	-144.1	-22.93.234e+05 2.284e+05 8.402e+04
210	ok	0.05	0.1	3.54e-03	70.7	70.7	70.7	70.7	-128.9	165.8	-54.04.256e+05-1.143e+05 2.855e+04

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
								-128.88-198.51	-252.25-5.066e+05-4.474e+05-2.672e+05				
	0.05	0.16	5.81e-03	70.69	70.69	70.69	70.69	205.08	229.42	250.574.256e+05	3.799e+05	2.711e+05	

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2				N/mm	N/mm	
151	ok	0.90						
152	ok	0.39						
153	ok	0.59						
154	ok	1.10						
155	ok	1.58						
156	ok	1.99						
157	ok	2.33						
158	ok	2.56						
159	ok	2.69						
160	ok	2.71						



161	ok	2.70
162	ok	2.59
163	ok	2.37
164	ok	2.05
165	ok	1.65
166	ok	1.18
167	ok	0.68
168	ok	0.30
169	ok	0.81
170	ok	1.29
171	ok	1.70
172	ok	2.03
173	ok	2.27
174	ok	2.40
175	ok	2.42
176	ok	2.42
177	ok	2.30
178	ok	2.09
179	ok	1.77
180	ok	1.37
181	ok	1.41
182	ok	1.04
183	ok	0.74
184	ok	0.74
185	ok	1.14
186	ok	1.56
187	ok	1.94
188	ok	2.26
189	ok	2.50
190	ok	2.63
191	ok	2.67
192	ok	2.65
193	ok	2.52
194	ok	2.30
195	ok	1.99
196	ok	1.61
197	ok	1.20
198	ok	0.79
199	ok	0.70
200	ok	0.97
201	ok	1.34
202	ok	1.70
203	ok	2.01
204	ok	2.23
205	ok	2.37
206	ok	2.40



207 ok 2.37  
208 ok 2.26  
209 ok 2.05  
210 ok 1.76

**Nodo**                      **Max tauVer V pr**    **Ver V sec**                      **Af V pr**                      **Af V sec**                      **V pr**                      **V sec**  
2.71

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
5	148.00	9	1	Singolo elemento

Nodo	Statox/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
								N/mm	N/mm	N/mm	N	N	N
32	ok 0.05	0.3	1.26e-02	70.7	70.7	70.7	70.7	-12.2	549.8	212.9-2.965e+05-8.673e+05-2.738e+05			
62	ok 0.05	0.2	2.33e-02	70.7	70.7	70.7	70.7	-878.0	-683.7	-132.97.845e+05 4.229e+05 5.894e+04			
63	ok 0.05	0.2	2.54e-02	70.7	70.7	70.7	70.7	-1028.2	-675.7	-27.47.991e+05 3.185e+05 -1.077e+05			
64	ok 0.05	0.2	2.69e-02	70.7	70.7	70.7	70.7	-1057.2	-712.5	110.66.661e+05 3.091e+05 -2.912e+05			
65	ok 0.05	0.3	2.76e-02	70.7	70.7	70.7	70.7	1110.9	703.9	-12.6-7.114e+05-3.497e+05-1.836e+05			
66	ok 0.05	0.3	2.73e-02	70.7	70.7	70.7	70.7	1041.7	728.1	-153.4-8.091e+05-4.062e+05 -8943.9			
67	ok 0.05	0.3	2.60e-02	70.7	70.7	70.7	70.7	853.0	793.8	-241.5-7.664e+05-5.515e+05 1.343e+05			
68	ok 0.05	0.3	2.38e-02	70.7	70.7	70.7	70.7	592.9	858.6	-237.6-6.232e+05-7.412e+05 1.825e+05			
69	ok 0.05	0.3	2.08e-02	70.7	70.7	70.7	70.7	326.7	866.7	-135.7-4.513e+05-9.020e+05 1.092e+05			
70	ok 0.05	0.3	1.70e-02	70.7	70.7	70.7	70.7	113.9	770.3	33.5-3.258e+05-9.596e+05-6.379e+04			
71	ok 0.05	0.3	7.89e-03	70.7	70.7	70.7	70.7	-56.5	223.8	340.6-3.676e+05-6.252e+05-4.407e+05			
72	ok 0.05	0.3	1.18e-02	70.7	70.7	70.7	70.7	-44.9	515.3	-222.2-2.814e+05-8.545e+05 2.863e+05			
73	ok 0.05	0.3	1.62e-02	70.7	70.7	70.7	70.7	76.7	742.8	-42.3-3.066e+05-9.568e+05 7.598e+04			
74	ok 0.05	0.3	2.01e-02	70.7	70.7	70.7	70.7	287.5	845.6	129.9-4.294e+05-9.085e+05-1.013e+05			
75	ok 0.05	0.3	2.32e-02	70.7	70.7	70.7	70.7	555.4	842.0	236.3-6.023e+05-7.543e+05-1.818e+05			
76	ok 0.05	0.3	2.55e-02	70.7	70.7	70.7	70.7	821.1	780.0	244.2-7.513e+05-5.673e+05-1.413e+05			
77	ok 0.05	0.3	2.69e-02	70.7	70.7	70.7	70.7	1018.6	717.1	158.1-8.045e+05-4.211e+05 -3665.2			
78	ok 0.05	0.3	2.73e-02	70.7	70.7	70.7	70.7	1098.2	697.0	17.1-7.200e+05-3.619e+05 1.696e+05			
79	ok 0.05	0.2	2.69e-02	70.7	70.7	70.7	70.7	-1051.3	-709.6	-118.06.441e+05 2.936e+05 3.025e+05			
80	ok 0.05	0.2	2.57e-02	70.7	70.7	70.7	70.7	-1037.6	-677.6	23.17.882e+05 3.008e+05 1.198e+05			
81	ok 0.05	0.2	2.39e-02	70.7	70.7	70.7	70.7	-900.2	-694.1	134.37.860e+05 4.045e+05 -5.022e+04			
82	ok 0.05	0.2	2.16e-02	70.7	70.7	70.7	70.7	-678.2	-725.5	171.66.703e+05 5.675e+05 -1.398e+05			
83	ok 0.05	0.2	1.89e-02	70.7	70.7	70.7	70.7	-430.6	-721.0	121.25.074e+05 7.214e+05 -1.157e+05			
84	ok 0.05	0.2	1.57e-02	70.7	70.7	70.7	70.7	-214.8	-634.5	4.73.705e+05 7.936e+05 8619.6			
85	ok 0.05	0.2	1.20e-02	70.7	70.7	70.7	70.7	-65.6	-444.0	-129.93.113e+05 7.355e+05 1.795e+05			
86	ok 0.05	0.2	7.83e-03	70.7	70.7	70.7	70.7	16.3	-162.9	-227.03.400e+05 5.413e+05 3.239e+05			
87	ok 0.05	0.2	1.07e-02	70.7	70.7	70.7	70.7	-28.8	-386.2	137.52.932e+05 7.160e+05 -1.945e+05			
88	ok 0.05	0.2	1.45e-02	70.7	70.7	70.7	70.7	-178.2	-585.8	6.03.506e+05 7.887e+05 -2.165e+04			
89	ok 0.05	0.2	1.78e-02	70.7	70.7	70.7	70.7	-395.5	-685.0	-110.64.889e+05 7.289e+05 1.092e+05			



90	ok	0.05	0.2	2.08e-02	70.7	70.7	70.7	70.7	-647.4	-703.0	-164.56581e+05	5.829e+05	1.416e+05
181	ok	0.05	0.1	1.30e-02	70.7	70.7	70.7	70.7	-506.7	-152.7	-89.04512e+05	-1.259e+05	-7.810e+04
182	ok	0.05	0.1	1.36e-02	70.7	70.7	70.7	70.7	-543.0	-201.0	-46.73146e+05	-1.143e+05	-1.991e+05
183	ok	0.05	7.92e-02	1.37e-02	70.7	70.7	70.7	70.7	-555.0	-240.2	-20.11209e+05	-5.695e+04	-2.590e+05
184	ok	0.05	0.1	1.36e-02	70.7	70.7	70.7	70.7	628.2	220.0	1.1-1.808e+05	4.541e+04	-2.859e+05
185	ok	0.05	0.1	1.34e-02	70.7	70.7	70.7	70.7	626.7	179.5	-47.5-3.860e+05	1.126e+05	-2.155e+05
186	ok	0.05	0.2	1.30e-02	70.7	70.7	70.7	70.7	590.5	138.6	-112.1-5.303e+05	1.290e+05	-7.955e+04
187	ok	0.05	0.2	1.24e-02	70.7	70.7	70.7	70.7	511.7	109.4	-183.0-5.829e+05	6.946e+04	7.932e+04
188	ok	0.05	0.2	1.16e-02	70.7	70.7	70.7	70.7	389.9	97.1	-245.5-5.432e+05	-6.176e+04	2.102e+05
189	ok	0.05	0.2	1.05e-02	70.7	70.7	70.7	70.7	233.9	98.7	-284.6-4.400e+05	-2.320e+05	2.726e+05
190	ok	0.05	0.2	9.04e-03	70.7	70.7	70.7	70.7	61.2	104.0	-290.6-3.203e+05	-3.917e+05	2.515e+05
191	ok	0.05	0.2	7.37e-03	70.7	70.7	70.7	70.7	-107.3	100.7	-261.5-2.301e+05	-4.931e+05	1.614e+05
192	ok	0.05	0.2	8.75e-03	70.7	70.7	70.7	70.7	50.8	85.1	288.5-3.185e+05	-3.957e+05	-2.443e+05
193	ok	0.05	0.2	1.02e-02	70.7	70.7	70.7	70.7	224.0	79.7	283.2-4.390e+05	-2.394e+05	-2.686e+05
194	ok	0.05	0.2	1.13e-02	70.7	70.7	70.7	70.7	381.0	78.0	244.0-5.438e+05	-7.096e+04	-2.093e+05
195	ok	0.05	0.2	1.22e-02	70.7	70.7	70.7	70.7	504.6	90.2	180.3-5.867e+05	6.014e+04	-8.075e+04
196	ok	0.05	0.2	1.27e-02	70.7	70.7	70.7	70.7	584.9	120.5	106.8-5.382e+05	1.206e+05	7.724e+04
197	ok	0.05	0.1	1.32e-02	70.7	70.7	70.7	70.7	621.3	164.4	39.1-3.980e+05	1.054e+05	2.141e+05
198	ok	0.05	0.1	1.35e-02	70.7	70.7	70.7	70.7	622.0	210.6	-11.5-1.957e+05	3.863e+04	2.871e+05
199	ok	0.05	8.13e-02	1.37e-02	70.7	70.7	70.7	70.7	-553.2	-243.7	26.81018e+05	-6.429e+04	2.551e+05
200	ok	0.05	9.61e-02	1.37e-02	70.7	70.7	70.7	70.7	-546.0	-210.2	53.72958e+05	-1.218e+05	2.001e+05
201	ok	0.05	0.1	1.33e-02	70.7	70.7	70.7	70.7	-513.6	-168.8	96.74368e+05	-1.361e+05	8.258e+04
202	ok	0.05	0.1	1.25e-02	70.7	70.7	70.7	70.7	-446.8	-131.3	148.44945e+05	-8.233e+04	-5.858e+04
203	ok	0.05	0.1	1.12e-02	70.7	70.7	70.7	70.7	-343.8	-104.5	196.84672e+05	3.651e+04	-1.759e+05
204	ok	0.05	0.1	9.53e-03	70.7	70.7	70.7	70.7	-210.8	-87.2	229.13807e+05	1.904e+05	-2.313e+05
205	ok	0.05	0.1	7.49e-03	70.7	70.7	70.7	70.7	-61.8	-71.8	236.82786e+05	3.330e+05	-2.106e+05
206	ok	0.05	0.1	5.19e-03	70.7	70.7	70.7	70.7	86.6	-48.2	219.22040e+05	4.194e+05	-1.284e+05
207	ok	0.05	0.1	6.91e-03	70.7	70.7	70.7	70.7	-47.6	-37.8	-237.02760e+05	3.397e+05	2.016e+05
208	ok	0.05	0.1	8.98e-03	70.7	70.7	70.7	70.7	-198.2	-54.1	-226.43785e+05	2.030e+05	2.272e+05
209	ok	0.05	0.1	1.07e-02	70.7	70.7	70.7	70.7	-332.6	-75.2	-191.34685e+05	5.136e+04	1.771e+05
210	ok	0.05	0.1	1.21e-02	70.7	70.7	70.7	70.7	-437.5	-108.2	-141.15022e+05	-6.885e+04	6.315e+04

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
									-1057.24-725.47	-290.65-8.091e+05	-9.596e+05	-4.407e+05	
	0.05	0.29	0.0370.69	70.69	70.69	70.69	110.888	66.71	340.647	991e+05	7.936e+05	3.239e+05	

Nodo	Stato	Max tauVer	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2				N/mm	N/mm	
32ok		4.15						
62ok		2.73						
63ok		2.28						
64ok		1.85						
65ok		2.06						
66ok		2.58						
67ok		3.09						
68ok		3.53						



69ok	3.87
70ok	4.08
71ok	4.07
72ok	4.14
73ok	4.09
74ok	3.90
75ok	3.57
76ok	3.14
77ok	2.64
78ok	2.12
79ok	1.76
80ok	2.18
81ok	2.64
82ok	3.07
83ok	3.40
84ok	3.61
85ok	3.68
86ok	3.61
87ok	3.66
88ok	3.61
89ok	3.43
90ok	3.13
181	ok 1.70
182	ok 1.22
183	ok 0.77
184	ok 1.02
185	ok 1.48
186	ok 1.97
187	ok 2.40
188	ok 2.76
189	ok 3.01
190	ok 3.14
191	ok 3.15
192	ok 3.15
193	ok 3.03
194	ok 2.80
195	ok 2.46
196	ok 2.03
197	ok 1.56
198	ok 1.08
199	ok 0.76
200	ok 1.13
201	ok 1.61
202	ok 2.05
203	ok 2.41
204	ok 2.66



205 ok 2.81  
206 ok 2.83  
207 ok 2.82  
208 ok 2.71  
209 ok 2.47  
210 ok 2.12

**Nodo**                      **Max tau** **Ver V pr**    **Ver V sec**                      **Af V pr**                      **Af V sec**                      **V pr**                      **V sec**  
4.15

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
6	155.00	9	1	Singolo elemento

Nodo	Statox/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
				N/mm	N/mm	N/mm	N						
32	ok 0.05	0.3	2.39e-02	70.7	70.7	70.7	70.7	-807.1	398.1	267.14.953e+05	-8.668e+05	-2.526e+05	
62	ok 0.05	0.2	1.44e-02	70.7	70.7	70.7	70.7	2.6	621.1	500.75.324e+05	-6.911e+05	-4.509e+05	
63	ok 0.05	0.2	1.66e-02	70.7	70.7	70.7	70.7	-688.2	343.0	-109.18.266e+05	-3.198e+05	-1.647e+05	
64	ok 0.05	0.2	1.88e-02	70.7	70.7	70.7	70.7	-739.0	268.8	240.36.509e+05	-1.869e+05	-5.449e+05	
65	ok 0.05	0.2	2.09e-02	70.7	70.7	70.7	70.7	770.0	-366.9	134.6-6.776e+05	2.691e+05	-4.019e+05	
66	ok 0.05	0.2	2.26e-02	70.7	70.7	70.7	70.7	-252.9	-404.9	621.3-2.428e+05	5.632e+05	-7.474e+05	
67	ok 0.05	0.2	2.40e-02	70.7	70.7	70.7	70.7	76.9	-789.0	491.1-6.645e+05	8.912e+05	-4.593e+05	
68	ok 0.05	0.2	2.48e-02	70.7	70.7	70.7	70.7	285.9	-1022.9	171.8-8.716e+05	9.961e+05	350.2	
69	ok 0.05	0.2	2.50e-02	70.7	70.7	70.7	70.7	287.3	-1018.6	-223.3-8.003e+05	5.183e+05	4.758e+05	
70	ok 0.05	0.3	2.47e-02	70.7	70.7	70.7	70.7	76.3	-771.8	-550.2-4.882e+05	4.004e+05	8.038e+05	
71	ok 0.05	0.3	2.26e-02	70.7	70.7	70.7	70.7	-610.2	67.4	-589.23.191e+05	-5.974e+05	6.710e+05	
72	ok 0.05	0.3	2.36e-02	70.7	70.7	70.7	70.7	-812.0	381.0	-288.35.047e+05	-8.617e+05	2.774e+05	
73	ok 0.05	0.3	2.45e-02	70.7	70.7	70.7	70.7	63.9	-745.9	560.9-4.780e+05	3.735e+05	-8.067e+05	
74	ok 0.05	0.2	2.49e-02	70.7	70.7	70.7	70.7	282.5	-1003.5	243.2-7.971e+05	7.972e+05	-4.889e+05	
75	ok 0.05	0.2	2.47e-02	70.7	70.7	70.7	70.7	292.4	-1022.7	-149.7-8.799e+05	9.853e+05	-1.791e+04	
76	ok 0.05	0.2	2.39e-02	70.7	70.7	70.7	70.7	93.4	-802.9	-475.1-6.849e+05	8.914e+05	4.444e+05	
77	ok 0.05	0.2	2.27e-02	70.7	70.7	70.7	70.7	-232.8	-426.9	-617.8-2.716e+05	5.5708e+05	7.417e+05	
78	ok 0.05	0.2	2.10e-02	70.7	70.7	70.7	70.7	754.8	-376.7	-115.0-6.842e+05	2.701e+05	3.753e+05	
79	ok 0.05	0.2	1.90e-02	70.7	70.7	70.7	70.7	-739.3	256.2	-259.96.292e+05	-1.850e+05	5.641e+05	
80	ok 0.05	0.2	1.69e-02	70.7	70.7	70.7	70.7	-707.1	342.9	89.68.206e+05	-3.303e+05	1.895e+05	
81	ok 0.05	0.2	1.49e-02	70.7	70.7	70.7	70.7	14.9	602.7	-507.55.044e+05	-6.894e+05	4.641e+05	
82	ok 0.05	0.2	1.29e-02	70.7	70.7	70.7	70.7	-212.0	855.7	-244.37.285e+05	-8.149e+05	7.911e+04	
83	ok 0.05	0.2	1.12e-02	70.7	70.7	70.7	70.7	-252.9	893.3	106.77.039e+05	-6.874e+05	-3.367e+05	
84	ok 0.05	0.2	9.74e-03	70.7	70.7	70.7	70.7	-96.7	704.2	410.24.592e+05	-3.395e+05	-6.309e+05	
85	ok 0.05	0.2	8.56e-03	70.7	70.7	70.7	70.7	638.4	-321.4	-199.1-3.263e+05	7.358e+05	1.523e+05	
86	ok 0.05	0.2	7.65e-03	70.7	70.7	70.7	70.7	486.0	-57.1	-463.3-2.051e+05	5.417e+05	4.970e+05	
87	ok 0.05	0.2	8.15e-03	70.7	70.7	70.7	70.7	641.6	-291.3	227.2-3.389e+05	7.282e+05	-1.854e+05	



88	ok	0.05	0.2	9.24e-03	70.7	70.7	70.7	70.7	-85.1	673.7	-424.04.496e+05	-2.965e+05	6.341e+05
89	ok	0.05	0.2	1.06e-02	70.7	70.7	70.7	70.7	-251.1	880.5	-127.07.047e+05	-6.546e+05	3.534e+05
90	ok	0.05	0.2	1.24e-02	70.7	70.7	70.7	70.7	-219.8	861.3	226.97.442e+05	-7.996e+05	-5.847e+04
211	ok	0.05	0.2	8.29e-03	70.7	70.7	70.7	70.7	-322.8	249.0	-126.06.973e+05	-2.452e+05	-1.299e+05
212	ok	0.05	0.2	9.63e-03	70.7	70.7	70.7	70.7	-405.2	198.6	23.45.323e+05	-2.032e+05	-3.663e+05
213	ok	0.05	0.1	1.06e-02	70.7	70.7	70.7	70.7	-400.3	68.2	153.82.403e+05	-4.995e+04	-5.100e+05
214	ok	0.05	0.2	1.11e-02	70.7	70.7	70.7	70.7	456.4	-187.5	160.5-2.930e+05	1.194e+05	-5.149e+05
215	ok	0.05	0.2	1.12e-02	70.7	70.7	70.7	70.7	461.2	-314.3	-6.7-5.867e+05	2.715e+05	-3.493e+05
216	ok	0.05	0.2	1.11e-02	70.7	70.7	70.7	70.7	362.6	-346.3	-189.7-7.463e+05	3.035e+05	-9.057e+04
217	ok	0.05	0.2	1.09e-02	70.7	70.7	70.7	70.7	170.3	-287.3	-330.5-7.391e+05	1.883e+05	1.719e+05
218	ok	0.05	0.2	1.21e-02	70.7	70.7	70.7	70.7	-73.9	-173.2	-384.5-5.906e+05	4.384e+04	3.480e+05
219	ok	0.05	0.2	1.29e-02	70.7	70.7	70.7	70.7	-309.7	-58.2	-337.4-3.737e+05	-3.166e+05	3.812e+05
220	ok	0.05	0.2	1.32e-02	70.7	70.7	70.7	70.7	-479.3	5.5	-210.2-1.801e+05	-5.357e+05	2.692e+05
221	ok	0.05	0.2	1.31e-02	70.7	70.7	70.7	70.7	-548.8	-13.0	-50.4-8.611e+04	-6.245e+05	6.338e+04
222	ok	0.05	0.2	1.32e-02	70.7	70.7	70.7	70.7	-485.8	-5.9	199.1-1.741e+05	-5.417e+05	-2.539e+05
223	ok	0.05	0.2	1.30e-02	70.7	70.7	70.7	70.7	-322.3	-65.3	328.7-3.636e+05	-3.300e+05	-3.713e+05
224	ok	0.05	0.2	1.23e-02	70.7	70.7	70.7	70.7	-90.3	-179.1	379.8-5.803e+05	-6.148e+04	-3.451e+05
225	ok	0.05	0.2	1.11e-02	70.7	70.7	70.7	70.7	153.2	-294.5	329.7-7.326e+05	1.703e+05	-1.758e+05
226	ok	0.05	0.2	1.09e-02	70.7	70.7	70.7	70.7	347.2	-356.2	191.1-7.471e+05	2.882e+05	8.198e+04
227	ok	0.05	0.2	1.12e-02	70.7	70.7	70.7	70.7	448.3	-326.6	8.1-5.966e+05	2.606e+05	3.400e+05
228	ok	0.05	0.2	1.11e-02	70.7	70.7	70.7	70.7	446.1	-200.8	-160.4-3.110e+05	1.120e+05	5.092e+05
229	ok	0.05	0.2	1.07e-02	70.7	70.7	70.7	70.7	-404.2	55.4	-157.12.169e+05	-5.651e+04	5.091e+05
230	ok	0.05	0.2	9.92e-03	70.7	70.7	70.7	70.7	-417.1	189.9	-27.35.120e+05	-2.132e+05	3.728e+05
231	ok	0.05	0.2	8.71e-03	70.7	70.7	70.7	70.7	-341.3	243.5	125.86.859e+05	-2.621e+05	1.398e+05
232	ok	0.05	0.2	7.14e-03	70.7	70.7	70.7	70.7	-181.4	215.3	248.57.035e+05	-1.735e+05	-1.058e+05
233	ok	0.05	0.2	5.28e-03	70.7	70.7	70.7	70.7	26.4	135.6	298.75.850e+05	2.783e+04	-2.779e+05
234	ok	0.05	0.2	3.21e-03	70.7	70.7	70.7	70.7	227.9	53.2	261.63.973e+05	2.717e+05	-3.205e+05
235	ok	0.05	0.2	1.02e-03	70.7	70.7	70.7	70.7	370.4	15.8	156.22.264e+05	4.696e+05	-2.290e+05
236	ok	0.05	0.1	0.070.7	70.7	70.7	70.7	422.3	50.4	27.61.446e+05	55.486e+05	-5.116e+04	
237	ok	0.05	0.1	3.77e-04	70.7	70.7	70.7	70.7	374.2	37.1	-143.82.192e+05	4.792e+05	2.085e+05
238	ok	0.05	0.2	2.55e-03	70.7	70.7	70.7	70.7	239.4	68.9	-247.63.866e+05	2.928e+05	3.083e+05
239	ok	0.05	0.2	4.67e-03	70.7	70.7	70.7	70.7	44.3	145.3	-287.15.770e+05	5.387e+04	2.763e+05
240	ok	0.05	0.2	6.61e-03	70.7	70.7	70.7	70.7	-160.8	221.1	-242.67.039e+05	-1.497e+05	1.128e+05

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
								-811.96-1022.88	-617.81-8.799e+05	-8.668e+05	-8.067e+05		
	0.05	0.26	0.0370.69	70.69	70.69	70.69	770.01	893.31	621.328.266e+05	959.961e+05	8.038e+05		

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2				N/mm	N/mm	
32ok		4.81						
62ok		2.77						
63ok		2.23						
64ok		1.82						
65ok		2.11						
66ok		2.65						





67ok	3.25							
68ok	3.82							
69ok	4.29							
70ok	4.63							
71ok Av	4.82	0.08	0.05	4.7	2.8	614.6	362.3	
72ok	4.81							
73ok	4.66							
74ok	4.34							
75ok	3.88							
76ok	3.32							
77ok	2.72							
78ok	2.16							
79ok	1.80							
80ok	2.13							
81ok	2.67							
82ok	3.21							
83ok	3.67							
84ok	4.00							
85ok	4.19							
86ok	4.22							
87ok	4.19							
88ok	4.04							
89ok	3.73							
90ok	3.29							
211	ok	2.29						
212	ok	1.44						
213	ok	0.53						
214	ok	0.97						
215	ok	1.90						
216	ok	2.77						
217	ok	3.53						
218	ok	4.16						
219	ok	4.62						
220	ok Av	4.89	0.08	0.06	4.2	3.6	552.1	467.4
221	ok Av	4.96	0.09	0.05	5.0	2.6	650.2	340.1
222	ok Av	4.91	0.10	0.06	5.3	3.6	689.3	468.5
223	ok	4.67						
224	ok	4.23						
225	ok	3.63						
226	ok	2.89						
227	ok	2.03						
228	ok	1.12						
229	ok	0.38						
230	ok	1.27						
231	ok	2.14						
232	ok	2.90						



233 ok 3.53  
234 ok 3.99  
235 ok 4.27  
236 ok 4.34  
237 ok 4.29  
238 ok 4.05  
239 ok 3.63  
240 ok 3.03

**Nodo**                      **Max tau** **Ver V pr**    **Ver V sec**            **Af V pr**            **Af V sec**            **V pr**            **V sec**  
4.96   0.10   0.06                    5.29                    3.60                    689.33            468.53

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
7	162.00	9	1	Singolo elemento

Nodo	Statox/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
211	ok 0.05	0.2	3.39e-03	70.7	70.7	70.7	70.7	-122.5	414.3	121.06.840e+05	-3.250e+05	-1.982e+05	
212	ok 0.05	0.2	4.79e-03	70.7	70.7	70.7	70.7	-73.8	246.7	249.14.527e+05	-2.437e+05	-4.451e+05	
213	ok 0.05	0.1	6.45e-03	70.7	70.7	70.7	70.7	-84.2	88.8	271.62.229e+05	-9.404e+04	-5.511e+05	
214	ok 0.05	0.2	8.56e-03	70.7	70.7	70.7	70.7	116.8	-206.0	232.8-2.750e+05	1.600e+05	-5.107e+05	
215	ok 0.05	0.2	1.05e-02	70.7	70.7	70.7	70.7	111.8	-371.2	224.3-5.215e+05	3.257e+05	-4.369e+05	
216	ok 0.05	0.2	1.21e-02	70.7	70.7	70.7	70.7	144.2	-524.9	67.0-7.493e+05	4.003e+05	-1.621e+05	
217	ok 0.05	0.2	1.34e-02	70.7	70.7	70.7	70.7	80.0	-567.6	-119.1-7.922e+05	3.054e+05	1.467e+05	
218	ok 0.05	0.2	1.43e-02	70.7	70.7	70.7	70.7	-77.6	-497.8	-268.7-6.608e+05	5.763e+04	3.818e+05	
219	ok 0.05	0.2	1.49e-02	70.7	70.7	70.7	70.7	-287.6	-352.7	-329.1-4.262e+05	-2.670e+05	4.638e+05	
220	ok 0.05	0.2	1.49e-02	70.7	70.7	70.7	70.7	-485.8	-193.4	-279.5-1.919e+05	-5.610e+05	3.714e+05	
221	ok 0.05	0.2	1.47e-02	70.7	70.7	70.7	70.7	-608.3	-82.8	-139.0-5.435e+04	-7.257e+05	1.480e+05	
222	ok 0.05	0.2	1.49e-02	70.7	70.7	70.7	70.7	-495.5	-187.0	270.4-1.851e+05	-5.733e+05	-3.568e+05	
223	ok 0.05	0.2	1.49e-02	70.7	70.7	70.7	70.7	-302.1	-345.0	326.6-4.164e+05	-2.860e+05	-4.564e+05	
224	ok 0.05	0.2	1.44e-02	70.7	70.7	70.7	70.7	-92.7	-493.4	272.8-6.525e+05	3.601e+04	-3.825e+05	
225	ok 0.05	0.2	1.36e-02	70.7	70.7	70.7	70.7	68.0	-569.8	127.2-7.898e+05	2.855e+05	-1.544e+05	
226	ok 0.05	0.2	1.23e-02	70.7	70.7	70.7	70.7	136.7	-534.6	-58.9-7.560e+05	3.851e+05	1.508e+05	
227	ok 0.05	0.2	1.07e-02	70.7	70.7	70.7	70.7	107.3	-386.5	-219.9-5.381e+05	3.160e+05	4.268e+05	
228	ok 0.05	0.2	8.87e-03	70.7	70.7	70.7	70.7	109.7	-220.7	-227.2-2.957e+05	1.524e+05	4.995e+05	
229	ok 0.05	0.1	6.82e-03	70.7	70.7	70.7	70.7	-92.7	74.9	-277.51.966e+05	-1.009e+05	5.553e+05	
230	ok 0.05	0.2	5.04e-03	70.7	70.7	70.7	70.7	-147.6	260.9	-164.65.068e+05	-2.560e+05	3.732e+05	
231	ok 0.05	0.2	3.67e-03	70.7	70.7	70.7	70.7	-133.5	405.7	-124.56.661e+05	-3.418e+05	2.108e+05	
232	ok 0.05	0.2	2.32e-03	70.7	70.7	70.7	70.7	-98.6	477.2	41.07.348e+05	-2.753e+05	-7.256e+04	
233	ok 0.05	0.2	1.02e-03	70.7	70.7	70.7	70.7	24.1	442.1	183.26.382e+05	-6.383e+04	-2.964e+05	
234	ok 0.05	0.2	0.070.7	70.7	70.7	70.7	199.2	332.0	250.44.401e+05	2.238e+05	-3.835e+05		
235	ok 0.05	0.2	0.070.7	70.7	70.7	70.7	368.1	202.7	221.12.368e+05	4.875e+05	-3.110e+05		



236	ok	0.05	0.2	0.070.7	70.7	70.7	70.7	471.5	111.7	112.01.195e+056.342e+05-1.185e+05
237	ok	0.05	0.2	0.070.7	70.7	70.7	70.7	376.5	197.6	-211.82.291e+055.072e+05 2.914e+05
238	ok	0.05	0.2	0.070.7	70.7	70.7	70.7	212.1	327.6	-245.64.301e+052.538e+05 3.748e+05
239	ok	0.05	0.2	7.34e-04	70.7	70.7	70.7	70.7	38.5	440.7 -182.86.332e+05-3.180e+04 2.998e+05
240	ok	0.05	0.2	2.02e-03	70.7	70.7	70.7	70.7	-85.2	480.5 -43.67.405e+05-2.489e+05 8.420e+04
241	ok	0.05	0.2	3.32e-03	70.7	70.7	70.7	70.7	-141.4	401.7 47.78.267e+05-2.165e+05-2.140e+05
242	ok	0.05	0.2	4.87e-03	70.7	70.7	70.7	70.7	-132.7	275.5 198.75.851e+05-2.011e+05-4.739e+05
243	ok	0.05	0.2	6.44e-03	70.7	70.7	70.7	70.7	-50.5	67.2 284.12.028e+05-6.461e+04-6.288e+05
244	ok	0.05	0.2	8.27e-03	70.7	70.7	70.7	70.7	94.1	-196.6 275.2-2.694e+051.107e+05-6.252e+05
245	ok	0.05	0.2	9.97e-03	70.7	70.7	70.7	70.7	166.6	-396.0 157.2-6.504e+052.431e+05-4.521e+05
246	ok	0.05	0.2	1.15e-02	70.7	70.7	70.7	70.7	152.9	-501.7 -20.6-8.863e+052.472e+05-1.743e+05
247	ok	0.05	0.2	1.27e-02	70.7	70.7	70.7	70.7	36.2	-491.4 -195.6-9.386e+059.491e+04 1.111e+05
248	ok	0.05	0.2	1.36e-02	70.7	70.7	70.7	70.7	-160.4	-383.8 -304.5-8.322e+05-1.800e+05 3.063e+05
249	ok	0.05	0.2	1.42e-02	70.7	70.7	70.7	70.7	-381.2	-230.6 -307.8-6.439e+05-4.936e+05 3.497e+05
250	ok	0.05	0.2	1.45e-02	70.7	70.7	70.7	70.7	-557.1	-97.7 -204.5-4.715e+05-7.426e+05 2.383e+05
251	ok	0.05	0.2	1.45e-02	70.7	70.7	70.7	70.7	-632.1	-39.5 -32.9-3.959e+05-8.433e+05 2.847e+04
252	ok	0.05	0.2	1.45e-02	70.7	70.7	70.7	70.7	-565.9	-93.7 193.7-4.661e+05-7.539e+05-2.205e+05
253	ok	0.05	0.2	1.43e-02	70.7	70.7	70.7	70.7	-396.3	-224.4 302.7-6.353e+05-5.143e+05-3.378e+05
254	ok	0.05	0.2	1.37e-02	70.7	70.7	70.7	70.7	-177.8	-379.2 306.1-8.243e+05-2.065e+05-3.024e+05
255	ok	0.05	0.2	1.28e-02	70.7	70.7	70.7	70.7	20.9	-492.2 202.4-9.358e+056.685e+04-1.150e+05
256	ok	0.05	0.2	1.17e-02	70.7	70.7	70.7	70.7	142.0	-509.4 29.1-8.923e+052.213e+05 1.649e+05
257	ok	0.05	0.2	1.02e-02	70.7	70.7	70.7	70.7	159.9	-409.7 -151.0-6.670e+052.214e+05 4.414e+05
258	ok	0.05	0.2	8.55e-03	70.7	70.7	70.7	70.7	89.4	-212.9 -273.7-2.953e+059.265e+04 6.181e+05
259	ok	0.05	0.2	6.74e-03	70.7	70.7	70.7	70.7	-56.6	52.1 -286.61.716e+05-8.194e+04 6.282e+05
260	ok	0.05	0.2	5.18e-03	70.7	70.7	70.7	70.7	-142.4	265.0 -204.05.564e+05-2.225e+05 4.812e+05
261	ok	0.05	0.2	3.65e-03	70.7	70.7	70.7	70.7	-154.9	396.8 -52.78.074e+05-2.456e+05 2.252e+05
262	ok	0.05	0.2	2.17e-03	70.7	70.7	70.7	70.7	-72.5	420.9 108.58.838e+05-1.202e+05-4.758e+04
263	ok	0.05	0.2	8.25e-04	70.7	70.7	70.7	70.7	87.5	349.9 218.58.054e+05 1.252e+05-2.426e+05
264	ok	0.05	0.2	0.070.7	70.7	70.7	70.7	275.0	229.9	237.26.430e+054.127e+05-2.984e+05
265	ok	0.05	0.2	0.070.7	70.7	70.7	70.7	426.7	121.3	161.14.891e+056.446e+05-2.092e+05
266	ok	0.05	0.2	0.070.7	70.7	70.7	70.7	489.8	75.0	24.44.212e+057.404e+05-2.686e+04
267	ok	0.05	0.2	0.070.7	70.7	70.7	70.7	433.2	119.6	-149.94.829e+056.630e+05 1.853e+05
268	ok	0.05	0.2	0.070.7	70.7	70.7	70.7	287.6	226.4	-229.56.346e+054.453e+05 2.844e+05
269	ok	0.05	0.2	5.16e-04	70.7	70.7	70.7	70.7	103.3	346.9 -215.78.015e+05 1.640e+05 2.410e+05
270	ok	0.05	0.2	1.84e-03	70.7	70.7	70.7	70.7	-56.5	420.8 -110.48.904e+05-8.359e+04 5.568e+04

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
								-632.09-569.76					
	0.05	0.23	0.0170.69	70.69	70.69	70.69	489.82	480.53	326.588.904e+05	7.404e+05	6.282e+05		

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2				N/mm	N/mm	
211	ok	2.46						
212	ok	1.54						
213	ok	0.69						
214	ok	0.97						



215	ok	1.94						
216	ok	2.89						
217	ok	3.75						
218	ok	4.45						
219	ok Av	4.98	0.10	0.08	5.6	4.2	770.5	576.5
220	ok Av	5.31	0.11	0.06	6.0	3.5	812.7	477.9
221	ok Av	5.42	0.10	0.04	5.7	2.4	776.9	321.9
222	ok Av	5.34	0.11	0.06	6.0	3.5	816.5	478.8
223	ok Av	5.04	0.10	0.08	5.7	4.3	779.8	582.0
224	ok	4.54						
225	ok	3.86						
226	ok	3.03						
227	ok	2.10						
228	ok	1.12						
229	ok	0.60						
230	ok	1.37						
231	ok	2.29						
232	ok	3.13						
233	ok	3.83						
234	ok	4.35						
235	ok	4.68						
236	ok Av	4.80	0.09	0.04	5.1	2.0	690.3	279.6
237	ok Av	4.73	0.10	0.01	5.3	0.8	723.9	111.3
238	ok	4.44						
239	ok	3.95						
240	ok	3.28						
241	ok	2.53						
242	ok	1.58						
243	ok	0.56						
244	ok	0.94						
245	ok	1.99						
246	ok	2.96						
247	ok	3.81						
248	ok	4.51						
249	ok Av	5.03	0.10	0.07	5.5	3.8	746.3	512.1
250	ok Av	5.34	0.11	0.05	5.9	2.9	811.5	398.0
251	ok Av	5.42	0.11	0.03	5.9	1.7	806.0	238.7
252	ok Av	5.36	0.11	0.05	6.0	2.9	817.0	400.1
253	ok Av	5.09	0.10	0.07	5.5	3.8	756.6	517.6
254	ok	4.60						
255	ok	3.93						
256	ok	3.09						
257	ok	2.14						
258	ok	1.11						
259	ok	0.37						
260	ok	1.40						



261	ok	2.36						
262	ok	3.21						
263	ok	3.91						
264	ok	4.42						
265	ok Av	4.73	0.08	0.05	4.7	2.6	641.7	356.2
266	ok Av	4.83	0.09	0.03	5.3	1.6	716.6	216.0
267	ok Av	4.77	0.09	0.05	4.7	2.6	647.2	357.0
268	ok	4.50						
269	ok	4.02						
270	ok	3.36						

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
5.42	0.11	0.08	5.99	4.26	817.01	581.95	

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
8	170.00	9	1	Singolo elemento

Nodo	Statox/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
								N/mm	N/mm	N	N	N	
241	ok 0.04	0.2	2.66e-03	70.7	70.7	70.7	70.7	-106.1	420.1	91.58.605e+05	-2.381e+05	-2.116e+05	
242	ok 0.04	0.2	4.58e-03	70.7	70.7	70.7	70.7	-76.5	279.8	212.36.140e+05	-2.192e+05	-4.748e+05	
243	ok 0.04	0.2	6.44e-03	70.7	70.7	70.7	70.7	-18.9	67.7	296.22.091e+05	-7.709e+04	-6.516e+05	
244	ok 0.04	0.2	8.16e-03	70.7	70.7	70.7	70.7	47.8	-196.0	272.9-2.833e+05	1.267e+05	-6.327e+05	
245	ok 0.04	0.2	9.93e-03	70.7	70.7	70.7	70.7	123.6	-391.8	189.2-6.729e+05	2.674e+05	-4.674e+05	
246	ok 0.04	0.2	1.15e-02	70.7	70.7	70.7	70.7	107.7	-524.5	28.1-9.297e+05	2.744e+05	-1.663e+05	
247	ok 0.04	0.2	1.27e-02	70.7	70.7	70.7	70.7	-0.2	-549.5	-138.4-9.851e+05	1.078e+05	1.465e+05	
248	ok 0.04	0.2	1.36e-02	70.7	70.7	70.7	70.7	-262.7	-421.2	-232.0-8.164e+05	-2.562e+05	3.561e+05	
249	ok 0.04	0.2	1.41e-02	70.7	70.7	70.7	70.7	-391.8	-354.9	-272.5-6.508e+05	-5.502e+05	4.093e+05	
250	ok 0.04	0.2	1.43e-02	70.7	70.7	70.7	70.7	-564.3	-237.8	-195.0-4.534e+05	-8.356e+05	2.826e+05	
251	ok 0.04	0.2	1.43e-02	70.7	70.7	70.7	70.7	-646.6	-178.7	-50.1-3.635e+05	-9.588e+05	4.209e+04	
252	ok 0.04	0.2	1.43e-02	70.7	70.7	70.7	70.7	-574.2	-233.7	184.1-4.474e+05	-8.487e+05	-2.644e+05	
253	ok 0.04	0.2	1.42e-02	70.7	70.7	70.7	70.7	-408.1	-349.2	267.4-6.418e+05	-5.730e+05	-3.979e+05	
254	ok 0.04	0.2	1.37e-02	70.7	70.7	70.7	70.7	-281.9	-416.1	233.0-8.074e+05	-2.850e+05	-3.527e+05	
255	ok 0.04	0.2	1.29e-02	70.7	70.7	70.7	70.7	-17.0	-551.8	144.7-9.832e+05	7.852e+04	-1.523e+05	
256	ok 0.04	0.2	1.17e-02	70.7	70.7	70.7	70.7	94.7	-533.9	-20.6-9.378e+05	2.481e+05	1.550e+05	
257	ok 0.04	0.2	1.02e-02	70.7	70.7	70.7	70.7	113.8	-406.9	-184.2-6.928e+05	2.461e+05	4.554e+05	
258	ok 0.04	0.2	8.42e-03	70.7	70.7	70.7	70.7	38.3	-212.5	-270.2-3.128e+05	1.092e+05	6.238e+05	
259	ok 0.04	0.2	6.75e-03	70.7	70.7	70.7	70.7	-30.3	52.4	-299.81.741e+05	-9.399e+04	6.526e+05	
260	ok 0.04	0.2	4.93e-03	70.7	70.7	70.7	70.7	-91.7	269.3	-217.65.821e+05	-2.411e+05	4.845e+05	
261	ok 0.04	0.2	3.04e-03	70.7	70.7	70.7	70.7	-123.0	412.8	-94.48.378e+05	-2.681e+05	2.253e+05	
262	ok 0.04	0.2	1.16e-03	70.7	70.7	70.7	70.7	-46.3	468.7	59.29.211e+05	-1.327e+05	-7.184e+04	
263	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	165.5	390.7	158.78.025e+05	1.793e+05	-2.858e+05		



264	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	281.1	338.0	207.06.506e+054.595e+05-3.469e+05
265	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	430.8	243.9	153.94.757e+057.237e+05-2.456e+05
266	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	501.6	196.6	41.03.961e+058.397e+05-3.702e+04
267	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	438.8	242.5	-142.74.691e+057.450e+05 2.214e+05
268	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	295.1	336.3	-199.26.420e+054.956e+05 3.339e+05
269	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	183.8	388.6	-154.47.985e+052.215e+05 2.856e+05
270	ok 0.04	0.2	8.04e-04	70.7	70.7	70.7	70.7	-28.0	471.7 -59.59.299e+05-9.387e+04 8.267e+04
271	ok 0.04	0.2	5.17e-03	70.7	70.7	70.7	70.7	-103.0	305.5 233.77.296e+05-1.891e+05-5.897e+05
272	ok 0.04	0.2	7.16e-03	70.7	70.7	70.7	70.7	-18.9	73.8 320.52.434e+05-7.292e+04-7.692e+05
273	ok 0.04	0.2	9.04e-03	70.7	70.7	70.7	70.7	56.1	-212.8 306.6-3.307e+059.692e+04-7.631e+05
274	ok 0.04	0.2	1.07e-02	70.7	70.7	70.7	70.7	127.8	-433.5 187.3-8.157e+052.081e+05-5.670e+05
275	ok 0.04	0.3	1.22e-02	70.7	70.7	70.7	70.7	112.0	-556.2 4.4-1.135e+061.775e+05-2.532e+05
276	ok 0.04	0.3	1.33e-02	70.7	70.7	70.7	70.7	-9.3	-556.9 -177.0-1.243e+06-2.329e+04 6.950e+04
277	ok 0.04	0.3	1.42e-02	70.7	70.7	70.7	70.7	-212.1	-454.2 -290.9-1.169e+06-3.539e+05 2.926e+05
278	ok 0.04	0.3	1.47e-02	70.7	70.7	70.7	70.7	-438.4	-301.7 -296.0-9.958e+05-7.190e+05 3.483e+05
279	ok 0.04	0.3	1.50e-02	70.7	70.7	70.7	70.7	-616.5	-167.7 -190.9-8.309e+05-1.003e+06 2.347e+05
280	ok 0.04	0.2	1.51e-02	70.7	70.7	70.7	70.7	-687.7	-109.1 -15.4-7.622e+05-1.114e+06 1.535e+04
281	ok 0.04	0.3	1.50e-02	70.7	70.7	70.7	70.7	-626.4	-162.4 178.7-8.260e+05-1.018e+06-2.127e+05
282	ok 0.04	0.3	1.48e-02	70.7	70.7	70.7	70.7	-455.5	-294.2 290.0-9.883e+05-7.459e+05-3.328e+05
283	ok 0.04	0.3	1.43e-02	70.7	70.7	70.7	70.7	-231.9	-448.9 292.4-1.163e+06-3.891e+05-2.860e+05
284	ok 0.04	0.3	1.35e-02	70.7	70.7	70.7	70.7	-27.1	-557.7 184.2-1.244e+06-6.201e+04-7.203e+04
285	ok 0.04	0.3	1.24e-02	70.7	70.7	70.7	70.7	98.8	-564.8 4.7-1.145e+061.396e+05 2.439e+05
286	ok 0.04	0.3	1.10e-02	70.7	70.7	70.7	70.7	119.0	-448.6 -180.7-8.387e+051.737e+05 5.555e+05
287	ok 0.04	0.2	9.33e-03	70.7	70.7	70.7	70.7	49.2	-230.7 -305.0-3.650e+056.606e+04 7.547e+05
288	ok 0.04	0.2	7.49e-03	70.7	70.7	70.7	70.7	-27.6	57.6 -323.82.026e+05-1.031e+05 7.684e+05
289	ok 0.04	0.2	5.54e-03	70.7	70.7	70.7	70.7	-115.0	294.4 -239.66.912e+05-2.237e+05 5.974e+05
290	ok 0.04	0.2	3.54e-03	70.7	70.7	70.7	70.7	-127.2	445.4 -82.11.025e+06-2.131e+05 3.045e+05
291	ok 0.04	0.3	1.62e-03	70.7	70.7	70.7	70.7	-41.4	481.9 87.41.157e+06-3.976e+04 -6839.8
292	ok 0.04	0.3	3.11e-05	70.7	70.7	70.7	70.7	124.4	416.4 204.41.110e+06 2.614e+05-2.310e+05
293	ok 0.04	0.3	0.070.7	70.7	70.7	70.7	317.9	296.8	227.09.621e+056.014e+05-3.003e+05
294	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	472.8	186.2	150.98.144e+058.701e+05-2.098e+05
295	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	533.9	137.6	11.67.520e+059.784e+05-1.794e+04
296	ok 0.04	0.2	0.070.7	70.7	70.7	70.7	480.0	182.4	-139.08.090e+058.939e+05 1.806e+05
297	ok 0.04	0.3	0.070.7	70.7	70.7	70.7	331.5	291.6	-219.19.556e+056.435e+05 2.825e+05
298	ok 0.04	0.3	2.79e-05	70.7	70.7	70.7	70.7	141.5	412.2 -201.81.110e+06 3.127e+05 2.275e+05
299	ok 0.04	0.3	1.24e-03	70.7	70.7	70.7	70.7	-23.7	481.2 -89.61.170e+06 1.060e+04 1.473e+04
300	ok 0.04	0.2	3.17e-03	70.7	70.7	70.7	70.7	-111.6	450.3 76.61.053e+06-1.702e+05-2.926e+05

<b>Nodo</b>	<b>x/d</b>	<b>V N/M</b>	<b>ver. rid</b>	<b>Af pr-</b>	<b>Af pr+</b>	<b>Af sec-</b>	<b>Af sec+</b>	<b>N x</b>	<b>N y</b>	<b>N xy</b>	<b>M x</b>	<b>M y</b>	<b>M xy</b>
	0.04	0.28	0.0270.69	70.69	70.69	70.69	533.89	481.86	-687.74-564.78	-323.81-1.244e+06-1.114e+06-7.692e+05			

<b>Nodo</b>	<b>Stato</b>	<b>Max tau</b>	<b>Ver V pr</b>	<b>Ver V sec</b>	<b>Af V pr</b>	<b>Af V sec</b>	<b>V pr</b>	<b>V sec</b>
		daN/cm2				N/mm	N/mm	
241	ok	2.69						
242	ok	1.66						



243	ok	0.57						
244	ok	0.95						
245	ok	2.07						
246	ok	3.13						
247	ok	4.07						
248	ok Av	4.84	0.09	0.08	5.1	4.2	725.4	608.7
249	ok Av	5.42	0.11	0.07	6.1	3.9	868.5	555.7
250	ok Av	5.77	0.12	0.05	6.6	3.0	940.0	426.8
251	ok Av	5.88	0.12	0.03	6.5	1.7	927.9	243.4
252	ok Av	5.80	0.12	0.05	6.6	3.0	944.8	429.0
253	ok Av	5.48	0.11	0.07	6.1	3.9	878.7	562.3
254	ok Av	4.94	0.09	0.08	5.2	4.3	740.2	620.8
255	ok	4.19						
256	ok	3.28						
257	ok	2.24						
258	ok	1.13						
259	ok	0.40						
260	ok	1.46						
261	ok	2.50						
262	ok	3.44						
263	ok	4.21						
264	ok Av	4.78	0.10	0.06	5.3	3.4	765.9	491.6
265	ok Av	5.14	0.10	0.05	5.8	2.7	836.5	381.7
266	ok Av	5.25	0.10	0.03	5.8	1.5	828.8	219.5
267	ok Av	5.18	0.11	0.05	5.9	2.7	844.0	382.7
268	ok Av	4.87	0.10	0.06	5.4	3.5	781.3	499.0
269	ok	4.34						
270	ok	3.60						
271	ok	1.87						
272	ok	0.75						
273	ok	1.12						
274	ok	2.29						
275	ok	3.38						
276	ok	4.34						
277	ok Av	5.13	0.09	0.08	4.9	4.5	706.1	645.7
278	ok Av	5.70	0.11	0.07	6.1	4.0	871.5	569.4
279	ok Av	6.04	0.12	0.05	6.7	2.9	966.7	417.4
280	ok Av	6.13	0.12	0.03	6.8	1.5	976.5	215.3
281	ok Av	6.07	0.12	0.05	6.8	2.9	973.4	418.9
282	ok Av	5.76	0.11	0.07	6.2	4.0	883.8	574.8
283	ok Av	5.22	0.09	0.08	5.0	4.6	722.8	656.7
284	ok	4.46						
285	ok	3.53						
286	ok	2.46						
287	ok	1.31						
288	ok	0.56						



289	ok	1.66						
290	ok	2.73						
291	ok	3.69						
292	ok	4.47						
293	ok Av	5.04	0.10	0.06	5.3	3.6	767.1	510.1
294	ok Av	5.39	0.11	0.05	6.0	2.6	859.5	378.9
295	ok Av	5.49	0.11	0.02	6.1	1.4	872.2	199.2
296	ok Av	5.43	0.11	0.05	6.1	2.6	869.8	378.3
297	ok Av	5.13	0.10	0.06	5.5	3.6	785.6	515.9
298	ok	4.60						
299	ok	3.86						
300	ok	2.93						

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	6.13	0.12	0.08	6.80	4.58	976.48	656.66

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
9	176.00	9	1	Singolo elemento

Nodo	Statox/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
								N/mm	N/mm	N/mm	N	N	N
271	ok 0.04	0.2	4.67e-03	70.7	70.7	70.7	70.7	-78.1	304.1	240.07.558e+05	-2.006e+05	-5.969e+05	
272	ok 0.04	0.2	6.79e-03	70.7	70.7	70.7	70.7	-17.7	69.8	323.82.458e+05	-7.562e+04	-7.876e+05	
273	ok 0.04	0.2	8.74e-03	70.7	70.7	70.7	70.7	43.9	-208.8	304.4-3.409e+05	1.038e+05	-7.750e+05	
274	ok 0.04	0.2	1.05e-02	70.7	70.7	70.7	70.7	119.3	-423.4	201.3-8.398e+05	2.241e+05	-5.727e+05	
275	ok 0.04	0.3	1.20e-02	70.7	70.7	70.7	70.7	92.4	-563.2	31.4-1.172e+06	1.915e+05	-2.390e+05	
276	ok 0.04	0.3	1.32e-02	70.7	70.7	70.7	70.7	-73.0	-575.7	-140.7-1.278e+06	-3.505e+04	1.095e+05	
277	ok 0.04	0.3	1.41e-02	70.7	70.7	70.7	70.7	-270.2	-498.0	-240.2-1.186e+06	-3.943e+05	3.414e+05	
278	ok 0.04	0.3	1.46e-02	70.7	70.7	70.7	70.7	-481.2	-376.1	-240.4-9.908e+05	-7.899e+05	3.910e+05	
279	ok 0.04	0.3	1.48e-02	70.7	70.7	70.7	70.7	-620.8	-282.6	-180.2-8.122e+05	-1.091e+06	2.637e+05	
280	ok 0.04	0.3	1.48e-02	70.7	70.7	70.7	70.7	-697.0	-232.1	-28.0-7.354e+05	-1.215e+06	1.663e+04	
281	ok 0.04	0.3	1.48e-02	70.7	70.7	70.7	70.7	-631.5	-278.6	167.9-8.068e+05	-1.107e+06	-2.413e+05	
282	ok 0.04	0.3	1.46e-02	70.7	70.7	70.7	70.7	-499.1	-369.4	233.8-9.826e+05	-8.180e+05	-3.755e+05	
283	ok 0.04	0.3	1.42e-02	70.7	70.7	70.7	70.7	-291.3	-493.6	240.8-1.179e+06	-4.308e+05	-3.355e+05	
284	ok 0.04	0.3	1.34e-02	70.7	70.7	70.7	70.7	-92.9	-577.2	147.0-1.278e+06	-7.486e+04	-1.133e+05	
285	ok 0.04	0.3	1.22e-02	70.7	70.7	70.7	70.7	76.6	-573.5	-23.6-1.184e+06	1.532e+05	2.282e+05	
286	ok 0.04	0.2	1.07e-02	70.7	70.7	70.7	70.7	107.1	-439.7	-195.9-8.653e+05	1.899e+05	5.599e+05	
287	ok 0.04	0.2	9.05e-03	70.7	70.7	70.7	70.7	32.6	-226.9	-302.5-3.786e+05	7.370e+04	7.660e+05	
288	ok 0.04	0.2	7.15e-03	70.7	70.7	70.7	70.7	-30.9	53.3	-327.32.015e+05	-1.053e+05	7.872e+05	
289	ok 0.04	0.2	5.07e-03	70.7	70.7	70.7	70.7	-94.9	292.6	-245.27.139e+05	-2.351e+05	6.058e+05	
290	ok 0.04	0.2	2.90e-03	70.7	70.7	70.7	70.7	-88.6	449.7	-98.01.061e+06	-2.233e+05	2.940e+05	
291	ok 0.04	0.3	7.43e-04	70.7	70.7	70.7	70.7	5.9	499.9	57.31.191e+06	-3.572e+04	-3.653e+04	





292	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	169.1	456.2	162.61.131e+06	2.901e+05	-2.718e+05	
293	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	351.4	363.0	181.49.633e+05	56.579e+05	-3.388e+05	
294	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	491.9	277.3	112.67.996e+05	59.488e+05	-2.325e+05	
295	ok	0.04	0.2	0.070.7	70.7	70.7	70.7	541.3	245.0	23.67.312e+05	51.066e+06	-1.842e+04	
296	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	499.6	275.1	-100.17.937e+05	59.738e+05	2.028e+05	
297	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	366.0	360.0	-172.39.564e+05	57.022e+05	3.215e+05	
298	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	188.3	454.2	-158.11.131e+06	3.436e+05	2.698e+05	
299	ok	0.04	0.3	7.22e-04	70.7	70.7	70.7	70.7	26.9	500.9	-57.51.206e+06	1.622e+04	4.651e+04
300	ok	0.04	0.2	2.48e-03	70.7	70.7	70.7	70.7	-68.6	455.5	94.11.091e+06	-1.798e+05	-2.802e+05
301	ok	0.04	0.3	1.29e-03	70.7	70.7	70.7	70.7	-14.6	530.3	-89.11.503e+06	1.219e+05	-4.957e+04
302	ok	0.04	0.3	3.40e-03	70.7	70.7	70.7	70.7	-148.6	467.4	85.31.302e+06	-1.123e+05	-4.076e+05
303	ok	0.04	0.3	5.57e-03	70.7	70.7	70.7	70.7	-105.0	335.3	258.18.988e+05	-1.636e+05	-7.271e+05
304	ok	0.04	0.2	7.69e-03	70.7	70.7	70.7	70.7	-17.4	82.6	352.52.966e+05	-7.519e+04	-9.287e+05
305	ok	0.04	0.3	9.67e-03	70.7	70.7	70.7	70.7	51.8	-232.7	336.6-4.048e+05	57.280e+04	-9.233e+05
306	ok	0.04	0.3	1.14e-02	70.7	70.7	70.7	70.7	125.9	-473.6	208.4-1.008e+06	1.567e+05	-7.073e+05
307	ok	0.04	0.3	1.29e-02	70.7	70.7	70.7	70.7	106.2	-608.7	12.5-1.425e+06	8.929e+04	-3.596e+05
308	ok	0.04	0.3	1.41e-02	70.7	70.7	70.7	70.7	-25.7	-613.1	-181.1-1.608e+06	1.587e+05	1328.5
309	ok	0.04	0.4	1.50e-02	70.7	70.7	70.7	70.7	-243.7	-506.7	-302.2-1.581e+06	5.418e+05	2.575e+05
310	ok	0.04	0.3	1.55e-02	70.7	70.7	70.7	70.7	-485.2	-347.3	-307.0-1.434e+06	9.557e+05	3.352e+05
311	ok	0.04	0.3	1.58e-02	70.7	70.7	70.7	70.7	-673.6	-207.8	-194.7-1.281e+06	1.275e+06	2.317e+05
312	ok	0.04	0.3	1.58e-02	70.7	70.7	70.7	70.7	-746.6	-148.3	-8.5-1.217e+06	1.398e+06	1.520e+04
313	ok	0.04	0.3	1.58e-02	70.7	70.7	70.7	70.7	-684.6	-202.1	181.0-1.277e+06	1.293e+06	-2.048e+05
314	ok	0.04	0.3	1.56e-02	70.7	70.7	70.7	70.7	-504.4	-339.6	300.0-1.428e+06	9.890e+05	-3.153e+05
315	ok	0.04	0.3	1.50e-02	70.7	70.7	70.7	70.7	-266.1	-501.5	303.2-1.577e+06	5.864e+05	-2.474e+05
316	ok	0.04	0.3	1.42e-02	70.7	70.7	70.7	70.7	-46.2	-614.4	188.3-1.611e+06	2.093e+05	-1439.6
317	ok	0.04	0.3	1.31e-02	70.7	70.7	70.7	70.7	90.7	-618.5	-3.2-1.441e+06	3.744e+04	3.515e+05
318	ok	0.04	0.3	1.17e-02	70.7	70.7	70.7	70.7	115.2	-490.2	-201.5-1.037e+06	1.071e+05	6.957e+05
319	ok	0.04	0.3	9.99e-03	70.7	70.7	70.7	70.7	43.3	-252.2	-335.1-4.478e+05	52.620e+04	9.140e+05
320	ok	0.04	0.2	8.05e-03	70.7	70.7	70.7	70.7	-27.6	65.0	-356.52.455e+05	-1.211e+05	9.270e+05
321	ok	0.04	0.3	5.96e-03	70.7	70.7	70.7	70.7	-118.5	323.7	-264.98.497e+05	-2.140e+05	7.343e+05
322	ok	0.04	0.3	3.80e-03	70.7	70.7	70.7	70.7	-166.0	461.8	-91.11.264e+06	-1.708e+05	4.190e+05
323	ok	0.04	0.3	1.68e-03	70.7	70.7	70.7	70.7	-33.6	531.5	86.61.483e+06	5.611e+04	5.626e+04
324	ok	0.04	0.3	2.99e-05	70.7	70.7	70.7	70.7	145.7	464.2	211.71.482e+06	4.113e+05	-2.009e+05
325	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	353.1	339.1	235.31.358e+06	8.017e+05	-2.915e+05	
326	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	517.6	223.4	153.91.222e+06	1.107e+06	-2.100e+05	
327	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	579.6	172.6	8.91.163e+06	1.229e+06	-2.111e+04	
328	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	525.4	219.0	-141.11.217e+06	1.136e+06	1.745e+05	
329	ok	0.04	0.3	0.070.7	70.7	70.7	70.7	367.7	333.0	-226.91.354e+06	8.540e+05	2.689e+05	
330	ok	0.04	0.3	2.63e-05	70.7	70.7	70.7	70.7	164.1	459.3	-208.81.486e+06	4.762e+05	1.945e+05

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
								-746.60-618.47					-356.53-1.611e+06-1.398e+06-9.287e+05
	0.04	0.35	0.0270.69	70.69	70.69	70.69	579.63	531.50					352.481.503e+06

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					N/mm	N/mm



271	ok	1.86						
272	ok	0.68						
273	ok	1.06						
274	ok	2.30						
275	ok	3.49						
276	ok Av	4.56	0.07	0.06	3.9	3.4	577.8	508.8
277	ok Av	5.44	0.10	0.08	5.5	4.6	812.2	689.7
278	ok Av	6.10	0.12	0.07	6.7	4.1	996.5	609.1
279	ok Av	6.51	0.13	0.05	7.4	3.0	1099.4	441.0
280	ok Av	6.65	0.13	0.03	7.4	1.4	1103.5	213.7
281	ok Av	6.54	0.13	0.05	7.4	3.0	1105.3	442.8
282	ok Av	6.17	0.12	0.07	6.8	4.1	1008.7	615.5
283	ok Av	5.55	0.10	0.09	5.6	4.7	829.6	702.6
284	ok Av	4.70	0.07	0.08	4.0	4.6	598.2	690.2
285	ok	3.66						
286	ok	2.49						
287	ok	1.25						
288	ok	0.52						
289	ok	1.63						
290	ok	2.81						
291	ok	3.87						
292	ok Av	4.74	0.09	0.07	4.8	4.1	707.6	606.3
293	ok Av	5.40	0.11	0.07	5.9	3.7	882.9	545.2
294	ok Av	5.82	0.12	0.05	6.6	2.7	982.6	399.9
295	ok Av	5.96	0.12	0.02	6.7	1.3	989.6	197.1
296	ok Av	5.87	0.12	0.05	6.7	2.7	991.9	399.6
297	ok Av	5.51	0.11	0.07	6.1	3.7	901.5	552.3
298	ok Av	4.90	0.09	0.08	4.9	4.2	732.7	623.1
299	ok	4.06						
300	ok	3.03						
301	ok	4.46						
302	ok	3.41						
303	ok	2.21						
304	ok	1.01						
305	ok	1.37						
306	ok	2.66						
307	ok	3.90						
308	ok Av	4.99	0.07	0.09	3.7	5.1	552.7	754.0
309	ok Av	5.89	0.10	0.09	5.5	5.1	811.2	757.6
310	ok Av	6.55	0.12	0.08	6.9	4.4	1021.9	653.7
311	ok Av	6.94	0.14	0.06	7.7	3.1	1149.2	459.1
312	ok Av	7.04	0.14	0.02	7.9	1.4	1172.4	206.5
313	ok Av	6.97	0.14	0.06	7.8	3.1	1157.3	459.7
314	ok Av	6.62	0.13	0.08	7.0	4.4	1036.6	658.9
315	ok Av	6.00	0.10	0.09	5.6	5.2	831.1	769.4
316	ok Av	5.14	0.07	0.09	3.9	5.2	575.6	773.4



317	ok	4.07						
318	ok	2.85						
319	ok	1.57						
320	ok	0.82						
321	ok	1.97						
322	ok	3.19						
323	ok	4.27						
324	ok Av	5.16	0.08	0.08	4.7	4.5	702.3	671.8
325	ok Av	5.82	0.11	0.07	6.1	4.0	902.6	589.3
326	ok Av	6.21	0.12	0.05	6.9	2.8	1025.6	419.3
327	ok Av	6.33	0.13	0.02	7.1	1.3	1051.4	192.9
328	ok Av	6.26	0.13	0.05	7.0	2.8	1038.1	416.6
329	ok Av	5.92	0.11	0.07	6.2	4.0	924.9	594.3
330	ok Av	5.31	0.09	0.08	4.9	4.6	731.1	687.3

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	7.04	0.14	0.09	7.88	5.20	1172.44	773.39

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
10	183.00	9	1	Singolo elemento

Nodo	Statox/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
								N/mm	N/mm	N	N	N	
301	ok 0.04	0.3	6.67e-04	70.7	70.7	70.7	70.7	40.6	564.6	-44.51.559e+06	1.283e+05	-7195.5	
302	ok 0.04	0.3	2.37e-03	70.7	70.7	70.7	70.7	-61.5	505.0	116.21.375e+06	-1.189e+05	-3.792e+05	
303	ok 0.04	0.3	4.83e-03	70.7	70.7	70.7	70.7	-74.7	333.7	269.09.383e+05	-1.767e+05	-7.368e+05	
304	ok 0.04	0.2	7.19e-03	70.7	70.7	70.7	70.7	-16.5	76.2	355.73.033e+05	-7.646e+04	-9.516e+05	
305	ok 0.04	0.3	9.35e-03	70.7	70.7	70.7	70.7	37.6	-226.6	336.8-4.227e+05	7.979e+04	-9.411e+05	
306	ok 0.04	0.3	1.12e-02	70.7	70.7	70.7	70.7	81.6	-471.6	219.4-1.056e+06	1.728e+05	-7.090e+05	
307	ok 0.04	0.3	1.28e-02	70.7	70.7	70.7	70.7	42.5	-620.2	43.0-1.489e+06	1.005e+05	-3.341e+05	
308	ok 0.04	0.3	1.40e-02	70.7	70.7	70.7	70.7	-93.4	-650.2	-130.4-1.666e+06	-1.700e+05	5.400e+04	
309	ok 0.04	0.3	1.49e-02	70.7	70.7	70.7	70.7	-301.0	-579.7	-239.0-1.617e+06	-5.901e+05	3.258e+05	
310	ok 0.04	0.3	1.54e-02	70.7	70.7	70.7	70.7	-523.5	-459.4	-245.5-1.440e+06	-1.045e+06	3.998e+05	
311	ok 0.04	0.3	1.55e-02	70.7	70.7	70.7	70.7	-693.0	-352.7	-150.4-1.261e+06	-1.398e+06	2.726e+05	
312	ok 0.04	0.3	1.55e-02	70.7	70.7	70.7	70.7	-755.1	-311.3	7.2-1.185e+06	-1.536e+06	1.916e+04	
313	ok 0.04	0.3	1.55e-02	70.7	70.7	70.7	70.7	-704.4	-347.9	136.4-1.256e+06	-1.416e+06	-2.451e+05	
314	ok 0.04	0.3	1.54e-02	70.7	70.7	70.7	70.7	-543.5	-453.0	237.8-1.433e+06	-1.080e+06	-3.799e+05	
315	ok 0.04	0.3	1.49e-02	70.7	70.7	70.7	70.7	-324.7	-575.9	239.0-1.613e+06	-6.362e+05	-3.165e+05	
316	ok 0.04	0.3	1.42e-02	70.7	70.7	70.7	70.7	-116.1	-652.9	136.3-1.670e+06	-2.219e+05	-5.570e+04	
317	ok 0.04	0.3	1.30e-02	70.7	70.7	70.7	70.7	23.7	-630.9	-35.0-1.506e+06	4.827e+04	3.241e+05	
318	ok 0.04	0.3	1.15e-02	70.7	70.7	70.7	70.7	66.3	-488.8	-213.6-1.089e+06	1.236e+05	6.958e+05	
319	ok 0.04	0.3	9.70e-03	70.7	70.7	70.7	70.7	23.4	-246.4	-335.5-4.703e+05	3.413e+04	9.313e+05	



320	ok 0.04	0.2	7.59e-03	70.7	70.7	70.7	70.7	-32.6	58.3	-359.42.473e+05	-1.218e+05	9.501e+05
321	ok 0.04	0.3	5.27e-03	70.7	70.7	70.7	70.7	-94.4	321.4	-274.38.843e+05	-2.269e+05	7.455e+05
322	ok 0.04	0.3	2.83e-03	70.7	70.7	70.7	70.7	-83.9	498.7	-119.81.334e+06	-1.784e+05	3.931e+05
323	ok 0.04	0.3	6.71e-04	70.7	70.7	70.7	70.7	17.6	563.2	44.91.537e+06	6.050e+04	1.667e+04
324	ok 0.04	0.3	0.070.7	70.7	70.7	70.7	190.5	527.5	159.11.519e+06	4.473e+05	-2.576e+05	
325	ok 0.04	0.3	0.070.7	70.7	70.7	70.7	383.4	436.9	184.01.369e+06	8.749e+05	-3.482e+05	
326	ok 0.04	0.3	0.070.7	70.7	70.7	70.7	532.8	350.3	117.61.209e+06	1.211e+06	-2.481e+05	
327	ok 0.04	0.3	0.070.7	70.7	70.7	70.7	587.4	316.3	-5.31.139e+06	1.349e+06	-2.598e+04	
328	ok 0.04	0.3	0.070.7	70.7	70.7	70.7	541.2	348.1	-104.31.204e+06	1.242e+06	2.122e+05	
329	ok 0.04	0.3	0.070.7	70.7	70.7	70.7	399.2	434.0	-174.11.365e+06	9.300e+05	3.264e+05	
330	ok 0.04	0.3	0.070.7	70.7	70.7	70.7	211.3	525.8	-153.91.524e+06	5.150e+05	2.534e+05	
331	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	189.9	521.5	-210.31.940e+06	6.781e+05	1.554e+05	
332	ok 0.04	0.4	1.10e-03	70.7	70.7	70.7	70.7	-1.5	589.5	-82.51.904e+06	2.613e+05	-1.260e+05
333	ok 0.04	0.4	3.44e-03	70.7	70.7	70.7	70.7	-152.1	516.2	103.01.619e+06	-3.130e+04	-5.300e+05
334	ok 0.04	0.3	5.84e-03	70.7	70.7	70.7	70.7	-105.1	367.0	286.21.102e+06	-1.287e+05	-8.892e+05
335	ok 0.04	0.3	8.15e-03	70.7	70.7	70.7	70.7	-17.4	90.6	386.73.599e+05	-7.546e+04	-1.116e+06
336	ok 0.04	0.3	1.03e-02	70.7	70.7	70.7	70.7	46.8	-253.0	369.8-4.929e+05	4.312e+04	-1.112e+06
337	ok 0.04	0.4	1.22e-02	70.7	70.7	70.7	70.7	120.5	-517.0	234.3-1.237e+06	9.261e+04	-8.730e+05
338	ok 0.04	0.4	1.37e-02	70.7	70.7	70.7	70.7	95.5	-668.9	27.0-1.775e+06	-2.014e+04	-4.856e+05
339	ok 0.04	0.4	1.49e-02	70.7	70.7	70.7	70.7	-47.0	-682.0	-178.1-2.046e+06	-3.252e+05	-7.924e+04
340	ok 0.04	0.4	1.58e-02	70.7	70.7	70.7	70.7	-279.3	-577.5	-307.3-2.077e+06	-7.716e+05	2.167e+05
341	ok 0.04	0.4	1.63e-02	70.7	70.7	70.7	70.7	-535.1	-415.6	-314.3-1.963e+06	-1.244e+06	3.212e+05
342	ok 0.04	0.4	1.66e-02	70.7	70.7	70.7	70.7	-733.8	-273.0	-198.6-1.825e+06	-1.606e+06	2.304e+05
343	ok 0.04	0.4	1.66e-02	70.7	70.7	70.7	70.7	-809.8	-212.7	-5.8-1.766e+06	-1.746e+06	1.770e+04
344	ok 0.04	0.4	1.66e-02	70.7	70.7	70.7	70.7	-746.0	-267.2	183.4-1.822e+06	-1.627e+06	-1.977e+05
345	ok 0.04	0.4	1.63e-02	70.7	70.7	70.7	70.7	-556.5	-408.0	306.1-1.959e+06	-1.285e+06	-2.960e+05
346	ok 0.04	0.4	1.59e-02	70.7	70.7	70.7	70.7	-304.4	-572.6	307.7-2.077e+06	-8.273e+05	-2.023e+05
347	ok 0.04	0.4	1.51e-02	70.7	70.7	70.7	70.7	-70.5	-684.3	185.2-2.054e+06	-3.901e+05	8.219e+04
348	ok 0.04	0.4	1.39e-02	70.7	70.7	70.7	70.7	77.1	-680.1	-17.6-1.796e+06	-8.871e+04	4.790e+05
349	ok 0.04	0.4	1.25e-02	70.7	70.7	70.7	70.7	107.2	-535.5	-227.4-1.275e+06	2.464e+04	8.614e+05
350	ok 0.04	0.3	1.06e-02	70.7	70.7	70.7	70.7	36.0	-274.3	-368.5-5.464e+05	-2.253e+04	1.102e+06
351	ok 0.04	0.2	8.54e-03	70.7	70.7	70.7	70.7	-29.9	71.8	-391.32.961e+05	-1.405e+05	1.113e+06
352	ok 0.04	0.3	6.25e-03	70.7	70.7	70.7	70.7	-121.0	354.7	-293.51.039e+06	-1.982e+05	8.957e+05
353	ok 0.04	0.4	3.87e-03	70.7	70.7	70.7	70.7	-171.6	510.3	-108.91.569e+06	-1.089e+05	5.410e+05
354	ok 0.04	0.4	1.49e-03	70.7	70.7	70.7	70.7	-22.5	591.0	80.11.876e+06	1.767e+05	1.314e+05
355	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	169.9	526.9	213.51.930e+06	5.966e+05	-1.651e+05	
356	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	390.7	400.3	240.31.837e+06	1.047e+06	-2.816e+05	
357	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	564.7	282.2	156.71.715e+06	1.396e+06	-2.114e+05	
358	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	629.4	230.4	12.61.661e+06	1.536e+06	-2.547e+04	
359	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	573.1	277.5	-142.81.712e+06	1.432e+06	1.686e+05	
360	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	406.4	393.9	-231.11.837e+06	1.112e+06	2.533e+05	

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
								-809.84-684.31	-391.34-2.077e+06	-1.746e+06	-1.116e+06		
	0.04	0.43	0.0270.69	70.69	70.69	70.69	629.44	591.02	386.691.940e+06	1.536e+06	1.113e+06		



Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	daN/cm2					N/mm	N/mm	
301	ok Av	4.58	0.07	0.08	3.7	4.6	566.3	712.7
302	ok	3.42						
303	ok	2.13						
304	ok	0.90						
305	ok	1.26						
306	ok	2.59						
307	ok	3.92						
308	ok Av	5.12	0.07	0.09	4.1	5.1	634.0	792.5
309	ok Av	6.12	0.11	0.09	5.9	5.2	920.9	804.3
310	ok Av	6.87	0.13	0.08	7.4	4.5	1151.7	695.5
311	ok Av	7.34	0.15	0.06	8.3	3.1	1287.4	483.8
312	ok Av	7.50	0.15	0.02	8.4	1.3	1305.0	204.7
313	ok Av	7.38	0.15	0.06	8.4	3.1	1294.6	484.6
314	ok Av	6.95	0.14	0.08	7.5	4.5	1166.4	701.8
315	ok Av	6.24	0.11	0.10	6.1	5.3	941.5	818.1
316	ok Av	5.28	0.08	0.09	4.2	5.3	658.1	814.9
317	ok	4.11						
318	ok	2.80						
319	ok	1.46						
320	ok	0.76						
321	ok	1.88						
322	ok	3.18						
323	ok	4.36						
324	ok Av	5.35	0.09	0.08	5.2	4.6	803.6	712.3
325	ok Av	6.10	0.12	0.07	6.6	4.0	1023.0	626.7
326	ok Av	6.58	0.13	0.05	7.4	2.8	1154.1	441.6
327	ok Av	6.75	0.14	0.02	7.6	1.2	1174.0	190.8
328	ok Av	6.64	0.14	0.05	7.5	2.8	1165.6	439.1
329	ok Av	6.23	0.12	0.07	6.7	4.1	1045.7	633.0
330	ok Av	5.53	0.10	0.08	5.4	4.7	833.7	730.3
331	ok Av	6.09	0.10	0.10	5.4	5.3	836.4	821.1
332	ok Av	5.14	0.06	0.10	3.5	5.3	534.7	820.4
333	ok	3.97						
334	ok	2.65						
335	ok	1.42						
336	ok	1.76						
337	ok	3.12						
338	ok Av	4.49	0.02	0.09	0.9	5.0	134.7	779.3
339	ok Av	5.72	0.07	0.11	3.9	5.9	602.6	906.5
340	ok Av	6.73	0.11	0.10	6.0	5.8	925.0	901.3
341	ok Av	7.47	0.14	0.09	7.7	4.9	1192.2	763.6
342	ok Av	7.91	0.16	0.06	8.8	3.3	1358.9	516.1
343	ok Av	8.02	0.16	0.02	9.0	1.3	1397.9	200.3
344	ok Av	7.94	0.16	0.06	8.8	3.3	1368.7	514.9



345	ok Av	7.55	0.14	0.09	7.8	5.0	1210.0	767.9
346	ok Av	6.85	0.11	0.11	6.1	5.9	948.9	913.5
347	ok Av	5.88	0.07	0.11	4.1	6.0	630.0	927.9
348	ok Av	4.68	0.02	0.09	1.0	5.2	152.0	810.2
349	ok	3.33						
350	ok	1.95						
351	ok	1.24						
352	ok	2.40						
353	ok	3.72						
354	ok Av	4.92	0.04	0.09	2.3	5.1	355.5	790.0
355	ok Av	5.92	0.09	0.09	5.2	5.2	801.3	804.9
356	ok Av	6.66	0.12	0.08	6.8	4.5	1055.6	692.6
357	ok Av	7.10	0.14	0.06	7.9	3.1	1216.7	474.0
358	ok Av	7.23	0.15	0.02	8.1	1.2	1258.0	188.8
359	ok Av	7.15	0.14	0.05	8.0	3.0	1232.0	467.9
360	ok Av	6.77	0.13	0.08	7.0	4.5	1083.0	695.7

<b>Nodo</b>	<b>Max tau</b>	<b>Ver V pr</b>	<b>Ver V sec</b>	<b>Af V pr</b>	<b>Af V sec</b>	<b>V pr</b>	<b>V sec</b>
8.02	0.16	0.11	9.02	5.99	1397.91	927.94	

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
11	190.00	9	1	Singolo elemento

Nodo	Statox/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
								N/mm	N/mm	N	N	N	
331	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	238.4	600.0	-149.51.987e+06	7.239e+05	2.241e+05		
332	ok 0.04	0.4	6.34e-04	70.7	70.7	70.7	70.7	56.7	631.2	-31.81.973e+06	2.699e+05	-7.661e+04	
333	ok 0.04	0.4	2.30e-03	70.7	70.7	70.7	70.7	-53.9	557.4	138.51.705e+06	-3.776e+04	-4.974e+05	
334	ok 0.04	0.3	5.02e-03	70.7	70.7	70.7	70.7	-72.4	365.9	299.51.150e+06	-1.424e+05	-8.997e+05	
335	ok 0.04	0.3	7.62e-03	70.7	70.7	70.7	70.7	-17.1	83.7	390.43.704e+05	-7.610e+04	-1.141e+06	
336	ok 0.04	0.3	9.99e-03	70.7	70.7	70.7	70.7	31.8	-246.5	371.3-5.163e+05	4.999e+04	-1.132e+06	
337	ok 0.04	0.4	1.20e-02	70.7	70.7	70.7	70.7	72.8	-516.0	248.6-1.296e+06	1.098e+05	-8.752e+05	
338	ok 0.04	0.4	1.37e-02	70.7	70.7	70.7	70.7	27.7	-684.4	63.0-1.852e+06		-8342.6-4.564e+05	
339	ok 0.04	0.4	1.49e-02	70.7	70.7	70.7	70.7	-117.9	-727.8	-120.4-2.118e+06	-3.391e+05	-1.848e+04	
340	ok 0.04	0.4	1.58e-02	70.7	70.7	70.7	70.7	-337.7	-664.2	-237.6-2.124e+06	-8.277e+05	2.961e+05	
341	ok 0.04	0.4	1.62e-02	70.7	70.7	70.7	70.7	-572.7	-545.8	-248.8-1.975e+06	-1.348e+06	3.973e+05	
342	ok 0.04	0.4	1.63e-02	70.7	70.7	70.7	70.7	-751.8	-438.5	-154.4-1.806e+06	-1.748e+06	2.802e+05	
343	ok 0.04	0.4	1.62e-02	70.7	70.7	70.7	70.7	-818.1	-396.1	5.3-1.732e+06	-1.906e+06	2.558e+04	
344	ok 0.04	0.4	1.63e-02	70.7	70.7	70.7	70.7	-764.4	-433.7	138.8-1.802e+06	-1.771e+06	-2.469e+05	
345	ok 0.04	0.4	1.62e-02	70.7	70.7	70.7	70.7	-594.9	-539.6	239.9-1.970e+06	-1.391e+06	-3.722e+05	
346	ok 0.04	0.4	1.59e-02	70.7	70.7	70.7	70.7	-364.3	-661.0	236.9-2.123e+06	-8.851e+05	-2.826e+05	
347	ok 0.04	0.4	1.51e-02	70.7	70.7	70.7	70.7	-143.7	-731.6	126.0-2.126e+06	-4.052e+05	1.967e+04	



348	ok 0.04	0.4	1.39e-02	70.7	70.7	70.7	70.7	5.6	-696.8	-55.3-1.875e+06-7.736e+04	4.478e+05	
349	ok 0.04	0.4	1.23e-02	70.7	70.7	70.7	70.7	54.4	-535.2	-243.0-1.338e+064.229e+04	8.618e+05	
350	ok 0.04	0.3	1.04e-02	70.7	70.7	70.7	70.7	14.7	-268.1	-370.4-5.751e+05-1.462e+04	1.121e+06	
351	ok 0.04	0.2	8.06e-03	70.7	70.7	70.7	70.7	-36.2	64.5	-394.53.010e+05-1.405e+05	1.139e+06	
352	ok 0.04	0.3	5.50e-03	70.7	70.7	70.7	70.7	-95.1	352.7	-304.91.082e+06-2.117e+05	9.078e+05	
353	ok 0.04	0.4	2.80e-03	70.7	70.7	70.7	70.7	-79.1	550.7	-141.81.651e+06-1.166e+05	5.114e+05	
354	ok 0.04	0.4	6.38e-04	70.7	70.7	70.7	70.7	31.5	629.6	32.81.942e+06	1.831e+05	8.530e+04
355	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	215.9	601.6	155.41.977e+066.392e+05-2.312e+05			
356	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	420.5	513.7	185.51.854e+061.133e+06-3.483e+05			
357	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	578.8	427.0	120.31.703e+061.518e+06-2.574e+05			
358	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	637.1	392.3	-4.11.635e+061.676e+06-3.294e+04			
359	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	587.8	424.7	-105.91.700e+061.555e+06	2.142e+05		
360	ok 0.04	0.4	0.070.7	70.7	70.7	70.7	437.4	510.8	-174.71.852e+061.201e+06	3.210e+05		
361	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	447.5	458.7	-236.72.414e+061.415e+06	2.235e+05		
362	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	216.4	588.2	-212.82.476e+069.220e+05	9.734e+04		
363	ok 0.04	0.5	1.11e-03	70.7	70.7	70.7	70.7	11.0	653.3	-75.92.372e+06	4.374e+05	-2.238e+05
364	ok 0.04	0.4	3.49e-03	70.7	70.7	70.7	70.7	-104.8	596.3	125.52.001e+06	8.449e+04	-6.594e+05
365	ok 0.04	0.4	6.12e-03	70.7	70.7	70.7	70.7	-106.8	400.8	316.51.333e+06-7.639e+04	-1.074e+06	
366	ok 0.04	0.3	8.64e-03	70.7	70.7	70.7	70.7	-18.5	98.9	423.84.322e+05-7.124e+04	-1.326e+06	
367	ok 0.04	0.4	1.09e-02	70.7	70.7	70.7	70.7	42.2	-274.8	406.0-5.920e+05	3824.1-1.324e+06	
368	ok 0.04	0.4	1.30e-02	70.7	70.7	70.7	70.7	115.8	-563.9	262.4-1.499e+06	6195.1-1.063e+06	
369	ok 0.04	0.5	1.46e-02	70.7	70.7	70.7	70.7	85.5	-734.1	42.6-2.176e+06-1.624e+05	-6.358e+05	
370	ok 0.04	0.5	1.58e-02	70.7	70.7	70.7	70.7	-68.5	-756.7	-175.5-2.556e+06-5.323e+05	-1.833e+05	
371	ok 0.04	0.5	1.67e-02	70.7	70.7	70.7	70.7	-316.4	-653.8	-313.7-2.663e+06-1.047e+06	1.554e+05	
372	ok 0.04	0.5	1.72e-02	70.7	70.7	70.7	70.7	-588.2	-488.9	-323.4-2.595e+06-1.581e+06	2.919e+05	
373	ok 0.04	0.5	1.74e-02	70.7	70.7	70.7	70.7	-798.7	-342.5	-204.1-2.481e+06-1.986e+06	2.214e+05	
374	ok 0.04	0.4	1.74e-02	70.7	70.7	70.7	70.7	-878.5	-281.0	-3.8-2.430e+06-2.143e+06	2.119e+04	
375	ok 0.04	0.5	1.74e-02	70.7	70.7	70.7	70.7	-812.1	-336.7	187.1-2.480e+06-2.012e+06	-1.822e+05	
376	ok 0.04	0.5	1.72e-02	70.7	70.7	70.7	70.7	-612.1	-481.4	313.9-2.593e+06-1.631e+06	-2.607e+05	
377	ok 0.04	0.5	1.68e-02	70.7	70.7	70.7	70.7	-344.7	-649.5	313.4-2.666e+06-1.115e+06	-1.356e+05	
378	ok 0.04	0.5	1.60e-02	70.7	70.7	70.7	70.7	-95.3	-760.1	182.4-2.569e+06-6.137e+05	1.903e+05	
379	ok 0.04	0.5	1.48e-02	70.7	70.7	70.7	70.7	63.8	-746.9	-33.1-2.204e+06-2.507e+05	6.317e+05	
380	ok 0.04	0.4	1.33e-02	70.7	70.7	70.7	70.7	99.6	-584.4	-255.5-1.545e+06-8.379e+04	1.052e+06	
381	ok 0.04	0.4	1.13e-02	70.7	70.7	70.7	70.7	28.7	-298.1	-404.9-6.574e+05-8.488e+04	1.312e+06	
382	ok 0.04	0.3	9.07e-03	70.7	70.7	70.7	70.7	-33.5	78.7	-429.03.537e+05-1.594e+05	1.321e+06	
383	ok 0.04	0.4	6.57e-03	70.7	70.7	70.7	70.7	-125.0	387.9	-324.31.255e+06-1.688e+05	1.079e+06	
384	ok 0.04	0.4	3.95e-03	70.7	70.7	70.7	70.7	-177.6	562.6	-127.81.919e+06-2.219e+04	6.845e+05	
385	ok 0.04	0.5	1.32e-03	70.7	70.7	70.7	70.7	-11.8	655.1	73.72.332e+06	3.307e+05	2.276e+05
386	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	194.9	594.1	216.52.459e+068.212e+05-1.110e+05			
387	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	430.5	465.7	246.82.411e+061.336e+06-2.582e+05			
388	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	615.3	344.5	160.72.311e+061.731e+06-2.060e+05			
389	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	683.4	291.4	15.92.264e+061.889e+06-2.974e+04			
390	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	624.5	339.3	-145.72.310e+061.774e+06	1.552e+05		



0.04 0.53 0.0270.69 70.69 70.69 70.69683.45655.06 423.752.476e+061.889e+06 1.321e+06

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2				N/mm	N/mm	
331	ok Av	6.24	0.11	0.10	5.8	5.4	941.9	866.9
332	ok Av	5.18	0.07	0.10	3.8	5.3	612.3	857.7
333	ok	3.91						
334	ok	2.51						
335	ok	1.32						
336	ok	1.61						
337	ok	2.98						
338	ok Av	4.43	0.04	0.09	2.0	5.0	329.0	800.0
339	ok Av	5.77	0.08	0.11	4.3	5.9	685.2	947.7
340	ok Av	6.88	0.12	0.11	6.4	5.9	1037.5	950.7
341	ok Av	7.73	0.15	0.09	8.2	5.0	1326.0	807.7
342	ok Av	8.26	0.17	0.06	9.3	3.4	1501.9	541.9
343	ok Av	8.46	0.17	0.02	9.5	1.2	1535.3	198.2
344	ok Av	8.31	0.17	0.06	9.4	3.4	1510.8	540.9
345	ok Av	7.82	0.15	0.09	8.3	5.0	1343.8	813.0
346	ok Av	7.02	0.12	0.11	6.6	6.0	1062.3	964.9
347	ok Av	5.94	0.08	0.11	4.4	6.0	713.9	972.2
348	ok Av	4.64	0.04	0.09	2.2	5.2	357.8	835.0
349	ok	3.20						
350	ok	1.79						
351	ok	1.19						
352	ok	2.24						
353	ok	3.64						
354	ok Av	4.94	0.06	0.09	3.6	5.1	573.9	823.6
355	ok Av	6.05	0.10	0.09	5.6	5.3	905.4	848.1
356	ok Av	6.89	0.13	0.08	7.3	4.5	1180.1	732.3
357	ok Av	7.43	0.15	0.06	8.4	3.1	1349.9	497.6
358	ok Av	7.63	0.15	0.02	8.6	1.2	1385.4	186.6
359	ok Av	7.50	0.15	0.05	8.5	3.1	1364.1	491.5
360	ok Av	7.03	0.13	0.08	7.5	4.6	1207.8	736.6
361	ok Av	7.75	0.14	0.09	7.8	5.1	1263.6	822.2
362	ok Av	6.99	0.11	0.11	5.9	6.1	951.2	988.0
363	ok Av	5.94	0.06	0.11	3.6	6.2	573.6	998.1
364	ok Av	4.65	8.15e-03	0.09	0.5	5.3	73.0	848.0
365	ok	3.24						
366	ok	2.02						
367	ok	2.32						
368	ok	3.72						
369	ok Av	5.21	0.03	0.11	1.5	5.9	248.2	947.0
370	ok Av	6.56	0.07	0.12	4.0	6.8	646.6	1096.2
371	ok Av	7.69	0.12	0.12	6.5	6.7	1048.6	1080.2
372	ok Av	8.51	0.15	0.10	8.6	5.6	1386.1	900.8





373	ok Av	9.00	0.18	0.07	9.9	3.6	1601.8	587.5
374	ok Av	9.13	0.19	0.02	10.3	1.2	1660.2	193.2
375	ok Av	9.04	0.18	0.07	10.0	3.6	1613.5	583.7
376	ok Av	8.60	0.16	0.10	8.7	5.6	1407.6	903.4
377	ok Av	7.82	0.12	0.12	6.7	6.8	1077.5	1092.3
378	ok Av	6.74	0.08	0.13	4.2	6.9	679.5	1119.5
379	ok Av	5.42	0.03	0.11	1.7	6.1	281.1	981.9
380	ok	3.94						
381	ok	2.50						
382	ok	1.85						
383	ok	2.96						
384	ok	4.37						
385	ok Av	5.69	0.06	0.11	3.3	6.0	529.3	963.9
386	ok Av	6.80	0.10	0.11	5.6	6.0	908.2	971.7
387	ok Av	7.62	0.14	0.09	7.6	5.1	1230.0	822.2
388	ok Av	8.11	0.16	0.06	8.9	3.4	1438.5	542.8
389	ok Av	8.25	0.17	0.02	9.3	1.1	1499.1	184.1
390	ok Av	8.17	0.16	0.06	9.0	3.3	1457.2	531.5

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	9.13	0.19	0.13	10.30	6.95	1660.19	1119.54

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
12	197.00	9	1	Singolo elemento

Nodo	Statox/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
								N/mm	N/mm	N	N	N	
361	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	478.9	591.0	-175.92	435e+06	1.518e+06	3.016e+05	
362	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	267.3	678.2	-145.72	533e+06	0.69764e+05	1.766e+05	
363	ok 0.04	0.5	6.19e-04	70.7	70.7	70.7	70.7	73.3	701.9	-19.12	453e+06	4.492e+05	-1.664e+05
364	ok 0.04	0.4	2.28e-03	70.7	70.7	70.7	70.7	-46.7	613.6	161.92	0.84e+06	7.189e+04	-6.372e+05
365	ok 0.04	0.4	5.26e-03	70.7	70.7	70.7	70.7	-70.9	400.5	332.11	392e+06	-9.114e+04	-1.085e+06
366	ok 0.04	0.3	8.09e-03	70.7	70.7	70.7	70.7	-18.1	91.7	428.24	476e+05	-7.171e+04	-1.354e+06
367	ok 0.04	0.3	1.07e-02	70.7	70.7	70.7	70.7	25.8	-268.1	408.6	-6.218e+05	1.108e+04	-1.347e+06
368	ok 0.04	0.4	1.29e-02	70.7	70.7	70.7	70.7	63.8	-564.0	279.7	-1.569e+06	2.474e+04	-1.065e+06
369	ok 0.04	0.5	1.46e-02	70.7	70.7	70.7	70.7	12.3	-753.4	83.9	-2.267e+06	-1.504e+05	-6.021e+05
370	ok 0.04	0.5	1.59e-02	70.7	70.7	70.7	70.7	-144.0	-810.5	-110.9	-2.641e+06	-5.499e+05	-1.133e+05
371	ok 0.04	0.5	1.68e-02	70.7	70.7	70.7	70.7	-377.5	-753.4	-237.1	-2.719e+06	-1.113e+06	2.467e+05
372	ok 0.04	0.5	1.72e-02	70.7	70.7	70.7	70.7	-626.4	-636.4	-253.0	-2.612e+06	-1.701e+06	3.796e+05
373	ok 0.04	0.5	1.72e-02	70.7	70.7	70.7	70.7	-816.0	-528.1	-158.5	-2.463e+06	-2.151e+06	2.793e+05
374	ok 0.04	0.4	1.70e-02	70.7	70.7	70.7	70.7	-886.5	-484.8	4.3	-2.393e+06	-2.327e+06	3.161e+04
375	ok 0.04	0.5	1.71e-02	70.7	70.7	70.7	70.7	-829.9	-523.4	141.2	-2.460e+06	-2.177e+06	-2.394e+05



376	ok 0.04	0.5	1.72e-02	70.7	70.7	70.7	70.7	-651.0	-630.5	242.8-2.609e+06-1.752e+06-3.484e+05
377	ok 0.04	0.5	1.69e-02	70.7	70.7	70.7	70.7	-407.3	-750.9	235.6-2.722e+06-1.183e+06-2.279e+05
378	ok 0.04	0.5	1.61e-02	70.7	70.7	70.7	70.7	-173.3	-815.5	116.1-2.655e+06-6.326e+05 1.185e+05
379	ok 0.04	0.5	1.49e-02	70.7	70.7	70.7	70.7	-13.2	-767.5	-76.3-2.297e+06-2.392e+05 5.956e+05
380	ok 0.04	0.4	1.32e-02	70.7	70.7	70.7	70.7	42.3	-585.3	-274.3-1.620e+06-6.474e+04 1.052e+06
381	ok 0.04	0.4	1.11e-02	70.7	70.7	70.7	70.7	5.6	-291.7	-408.1-6.932e+05-7.652e+04 1.335e+06
382	ok 0.04	0.3	8.57e-03	70.7	70.7	70.7	70.7	-40.4	71.1	-432.73.627e+05-1.592e+05 1.350e+06
383	ok 0.04	0.3	5.78e-03	70.7	70.7	70.7	70.7	-96.7	386.5	-337.81.307e+06-1.834e+05 1.092e+06
384	ok 0.04	0.4	2.81e-03	70.7	70.7	70.7	70.7	-74.7	606.6	-165.02.015e+06-3.004e+04 6.508e+05
385	ok 0.04	0.5	6.24e-04	70.7	70.7	70.7	70.7	45.8	700.2	20.62.410e+06 3.399e+05 1.739e+05
386	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	243.1	679.8	152.52.515e+068.719e+05-1.874e+05	
387	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	460.7	594.1	187.72.432e+061.435e+06-3.351e+05	
388	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	628.8	507.0	123.22.300e+061.871e+06-2.594e+05	
389	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	690.9	471.5	-3.52.236e+062.050e+06-3.982e+04	
390	ok 0.04	0.5	0.070.7	70.7	70.7	70.7	638.5	504.5	-107.52.298e+061.916e+06 2.080e+05	
391	ok 0.04	0.7	0.070.7	70.7	70.7	70.7	742.7	352.6	19.52.996e+062.290e+06-3.395e+04	
392	ok 0.04	0.7	0.070.7	70.7	70.7	70.7	680.5	401.9	-150.03.032e+062.165e+06 1.290e+05	
393	ok 0.04	0.7	0.070.7	70.7	70.7	70.7	491.5	525.5	-244.93.103e+061.769e+06 1.711e+05	
394	ok 0.04	0.6	0.070.7	70.7	70.7	70.7	243.8	658.5	-217.73.105e+061.218e+06 1.178e+04	
395	ok 0.04	0.6	1.15e-03	70.7	70.7	70.7	70.7	22.3	721.6	-70.62.910e+06 6.633e+05-3.492e+05
396	ok 0.04	0.5	3.60e-03	70.7	70.7	70.7	70.7	-104.3	653.7	145.22.416e+06 2.355e+05-8.273e+05
397	ok 0.04	0.4	6.46e-03	70.7	70.7	70.7	70.7	-110.2	437.8	349.51.594e+06 2439.5-1.279e+06
398	ok 0.04	0.3	9.18e-03	70.7	70.7	70.7	70.7	-20.1	108.0	464.65.144e+05-5.919e+04-1.555e+06
399	ok 0.04	0.4	1.17e-02	70.7	70.7	70.7	70.7	37.2	-298.8	445.9-7.025e+05-4.916e+04-1.555e+06
400	ok 0.04	0.5	1.38e-02	70.7	70.7	70.7	70.7	112.1	-615.5	293.1-1.791e+06-1.124e+05-1.275e+06
401	ok 0.04	0.6	1.55e-02	70.7	70.7	70.7	70.7	76.7	-805.2	58.6-2.629e+06-3.509e+05-8.130e+05
402	ok 0.04	0.6	1.68e-02	70.7	70.7	70.7	70.7	-89.7	-837.2	-174.4-3.141e+06-7.936e+05-3.175e+05
403	ok 0.04	0.6	1.77e-02	70.7	70.7	70.7	70.7	-355.4	-734.7	-323.0-3.347e+06-1.379e+06 6.423e+04
404	ok 0.04	0.6	1.81e-02	70.7	70.7	70.7	70.7	-645.6	-565.0	-335.5-3.347e+06-1.974e+06 2.387e+05
405	ok 0.04	0.6	1.83e-02	70.7	70.7	70.7	70.7	-869.6	-413.4	-211.3-3.272e+06-2.420e+06 1.991e+05
406	ok 0.04	0.5	1.83e-02	70.7	70.7	70.7	70.7	-953.9	-350.0	-1.6-3.233e+06-2.593e+06 2.539e+04
407	ok 0.04	0.6	1.83e-02	70.7	70.7	70.7	70.7	-884.4	-407.5	192.5-3.272e+06-2.451e+06-1.527e+05
408	ok 0.04	0.6	1.81e-02	70.7	70.7	70.7	70.7	-672.0	-557.6	324.6-3.349e+06-2.032e+06-2.003e+05
409	ok 0.04	0.6	1.77e-02	70.7	70.7	70.7	70.7	-387.1	-731.0	321.9-3.356e+06-1.461e+06-3.785e+04
410	ok 0.04	0.6	1.70e-02	70.7	70.7	70.7	70.7	-120.3	-841.7	181.1-3.161e+06-8.938e+05 3.301e+05
411	ok 0.04	0.6	1.58e-02	70.7	70.7	70.7	70.7	51.5	-819.8	-49.0-2.665e+06-4.623e+05 8.125e+05
412	ok 0.04	0.5	1.41e-02	70.7	70.7	70.7	70.7	92.7	-638.2	-286.1-1.848e+06-2.287e+05 1.265e+06
413	ok 0.04	0.4	1.21e-02	70.7	70.7	70.7	70.7	21.2	-324.3	-445.0-7.812e+05-1.658e+05 1.542e+06
414	ok 0.04	0.3	9.64e-03	70.7	70.7	70.7	70.7	-37.5	86.2	-470.54.191e+05-1.753e+05 1.548e+06
415	ok 0.04	0.4	6.94e-03	70.7	70.7	70.7	70.7	-130.6	424.3	-357.91.497e+06-1.175e+05 1.283e+06
416	ok 0.04	0.5	4.08e-03	70.7	70.7	70.7	70.7	-127.7	649.0	-152.02.335e+06 1.073e+05 8.364e+05
417	ok 0.04	0.6	1.20e-03	70.7	70.7	70.7	70.7	-2.3	723.9	68.32.857e+06 5.306e+05 3.505e+05
418	ok 0.04	0.6	0.070.7	70.7	70.7	70.7	220.6	665.2	221.83.079e+061.095e+06-3.038e+04	
419	ok 0.04	0.7	0.070.7	70.7	70.7	70.7	473.2	533.4	255.83.094e+061.674e+06-2.132e+05	
420	ok 0.04	0.7	0.070.7	70.7	70.7	70.7	670.6	407.7	166.33.030e+062.114e+06-1.888e+05	



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
								-953.86-841.71	-470.50-3.356e+06	-2.593e+06-1.555e+06			
0.04	0.67	0.0270.69	70.69	70.69	70.69	742.71	723.91	464.583.105e+06	2.290e+06	1.548e+06			

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2				N/mm	N/mm	
361	ok Av	7.97	0.15	0.09	8.3	5.2	1391.7	866.0
362	ok Av	7.12	0.11	0.11	6.3	6.2	1058.8	1037.4
363	ok Av	5.96	0.07	0.11	3.9	6.2	651.7	1039.0
364	ok Av	4.58	0.03	0.09	1.4	5.2	241.7	867.6
365	ok	3.10						
366	ok	1.94						
367	ok	2.19						
368	ok	3.58						
369	ok Av	5.14	0.03	0.10	1.8	5.8	296.3	970.4
370	ok Av	6.59	0.08	0.12	4.4	6.8	729.6	1140.9
371	ok Av	7.81	0.13	0.12	7.0	6.8	1163.1	1133.3
372	ok Av	8.74	0.16	0.10	9.1	5.7	1523.2	947.9
373	ok Av	9.32	0.19	0.07	10.5	3.7	1748.8	615.2
374	ok Av	9.53	0.19	0.02	10.8	1.1	1801.7	191.4
375	ok Av	9.38	0.19	0.07	10.5	3.7	1759.7	611.5
376	ok Av	8.84	0.17	0.10	9.2	5.7	1544.8	951.5
377	ok Av	7.96	0.13	0.12	7.1	6.9	1192.9	1147.4
378	ok Av	6.78	0.08	0.13	4.6	7.0	764.0	1167.4
379	ok Av	5.36	0.04	0.11	2.0	6.0	330.8	1009.6
380	ok	3.81						
381	ok	2.35						
382	ok	1.81						
383	ok	2.82						
384	ok	4.29						
385	ok Av	5.70	0.07	0.11	3.6	6.0	605.3	1000.9
386	ok Av	6.91	0.11	0.11	6.1	6.1	1014.2	1018.6
387	ok Av	7.83	0.15	0.09	8.1	5.2	1357.7	864.9
388	ok Av	8.41	0.17	0.06	9.4	3.4	1575.7	568.2
389	ok Av	8.63	0.18	0.02	9.7	1.1	1630.5	182.2
390	ok Av	8.48	0.17	0.06	9.5	3.3	1593.4	556.9
391	ok Av	9.44	0.19	0.02	10.7	1.1	1784.9	178.2
392	ok Av	9.35	0.19	0.07	10.3	3.7	1723.1	611.1
393	ok Av	8.88	0.16	0.11	8.8	5.9	1473.4	981.1
394	ok Av	8.05	0.12	0.13	6.4	7.2	1078.1	1198.2
395	ok Av	6.90	0.07	0.13	3.6	7.3	604.6	1222.5
396	ok Av	5.51	0.01	0.11	0.8	6.3	135.5	1046.0
397	ok	4.03						
398	ok	2.85						
399	ok	3.12						
400	ok Av	4.52	0.03	0.09	1.8	4.8	298.9	804.8



401	ok Av	6.10	0.02	0.12	1.1	6.9	188.7	1157.2
402	ok Av	7.57	0.07	0.14	4.1	8.0	682.0	1334.4
403	ok Av	8.81	0.13	0.14	7.1	7.8	1184.2	1305.0
404	ok Av	9.72	0.17	0.12	9.6	6.4	1610.1	1073.1
405	ok Av	10.27	0.20	0.07	11.3	4.0	1887.4	677.1
406	ok Av	10.41	0.21	0.02	11.8	1.1	1970.1	184.0
407	ok Av	10.31	0.20	0.07	11.4	4.0	1901.5	669.5
408	ok Av	9.82	0.18	0.12	9.8	6.4	1636.0	1073.1
409	ok Av	8.95	0.13	0.14	7.3	7.9	1219.1	1316.4
410	ok Av	7.76	0.08	0.15	4.3	8.1	721.8	1359.3
411	ok Av	6.32	0.02	0.13	1.4	7.2	228.5	1196.4
412	ok Av	4.74	0.03	0.09	1.6	5.1	275.7	857.4
413	ok	3.27						
414	ok	2.68						
415	ok	3.74						
416	ok Av	5.20	9.79e-03	0.11	0.5	5.9	91.0	987.5
417	ok Av	6.62	0.06	0.13	3.3	7.1	550.1	1183.9
418	ok Av	7.83	0.11	0.13	6.1	7.1	1024.8	1182.7
419	ok Av	8.74	0.15	0.11	8.6	5.9	1431.8	986.0
420	ok Av	9.29	0.18	0.07	10.2	3.8	1700.1	629.8

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
10.41	0.21	0.15	11.78	8.13	1970.10	1359.30	

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
13	205.00	9	1	Singolo elemento

Nodo	Statox/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
								N/mm	N/mm	N/mm	N	N	N
391	ok 0.04	0.6	0.070.7	70.7	70.7	70.7	750.4	579.2	-3.32.963e+06	2.500e+06	-4.776e+04		
392	ok 0.04	0.6	0.070.7	70.7	70.7	70.7	695.4	610.7	-104.83.019e+06	2.352e+06	1.964e+05		
393	ok 0.04	0.6	0.070.7	70.7	70.7	70.7	527.5	693.3	-170.13.131e+06	1.905e+06	2.716e+05		
394	ok 0.04	0.6	0.070.7	70.7	70.7	70.7	304.1	772.7	-134.13.179e+06	1.291e+06	1.146e+05		
395	ok 0.04	0.6	5.51e-04	70.7	70.7	70.7	70.7	97.5	783.2	0.93.016e+06	6.802e+05	-2.740e+05	
396	ok 0.04	0.5	2.11e-03	70.7	70.7	70.7	70.7	-33.8	675.2	191.02.524e+06	2.196e+05	-7.973e+05	
397	ok 0.04	0.4	5.38e-03	70.7	70.7	70.7	70.7	-67.3	436.7	368.81.670e+06	-1.760e+04	-1.292e+06	
398	ok 0.04	0.3	8.49e-03	70.7	70.7	70.7	70.7	-22.0	98.5	469.35.342e+05	-6.206e+04	-1.591e+06	
399	ok 0.04	0.4	1.13e-02	70.7	70.7	70.7	70.7	19.7	-289.9	449.4-7.408e+05	-3.799e+04	-1.585e+06	
400	ok 0.04	0.5	1.37e-02	70.7	70.7	70.7	70.7	49.9	-615.3	315.3-1.882e+06	-8.751e+04	-1.277e+06	
401	ok 0.04	0.5	1.56e-02	70.7	70.7	70.7	70.7	-11.5	-829.8	111.2-2.748e+06	-3.354e+05	-7.689e+05	
402	ok 0.04	0.6	1.71e-02	70.7	70.7	70.7	70.7	-180.1	-906.0	-93.1-3.253e+06	-8.173e+05	-2.268e+05	
403	ok 0.04	0.6	1.80e-02	70.7	70.7	70.7	70.7	-427.3	-861.8	-227.7-3.422e+06	-1.466e+06	1.822e+05	



404	ok 0.04	0.6	1.83e-02	70.7	70.7	70.7	70.7	-688.9	-752.4	-249.4-3.371e+06-2.131e+06	3.517e+05	
405	ok 0.04	0.6	1.81e-02	70.7	70.7	70.7	70.7	-887.8	-648.1	-157.8-3.251e+06-2.634e+06	2.736e+05	
406	ok 0.04	0.5	1.79e-02	70.7	70.7	70.7	70.7	-962.1	-606.5	3.9-3.190e+06-2.833e+06	3.866e+04	
407	ok 0.04	0.5	1.80e-02	70.7	70.7	70.7	70.7	-903.2	-643.6	138.5-3.250e+06-2.666e+06-2.263e+05		
408	ok 0.04	0.6	1.82e-02	70.7	70.7	70.7	70.7	-716.3	-747.0	237.6-3.372e+06-2.191e+06-3.134e+05		
409	ok 0.04	0.6	1.80e-02	70.7	70.7	70.7	70.7	-460.7	-860.4	225.1-3.430e+06-1.550e+06-1.570e+05		
410	ok 0.04	0.6	1.72e-02	70.7	70.7	70.7	70.7	-213.6	-912.7	97.8-3.273e+06-9.192e+05	2.371e+05	
411	ok 0.04	0.6	1.59e-02	70.7	70.7	70.7	70.7	-41.3	-846.1	-103.9-2.787e+06-4.475e+05	7.656e+05	
412	ok 0.04	0.5	1.41e-02	70.7	70.7	70.7	70.7	24.1	-639.0	-310.3-1.944e+06-2.033e+05	1.265e+06	
413	ok 0.04	0.4	1.18e-02	70.7	70.7	70.7	70.7	-4.8	-315.7	-449.3-8.272e+05-1.533e+05	1.572e+06	
414	ok 0.04	0.3	9.02e-03	70.7	70.7	70.7	70.7	-48.6	76.3	-474.34.306e+05-1.774e+05	1.584e+06	
415	ok 0.04	0.4	5.94e-03	70.7	70.7	70.7	70.7	-97.3	421.9	-374.41.564e+06-1.375e+05	1.298e+06	
416	ok 0.04	0.5	2.68e-03	70.7	70.7	70.7	70.7	-65.7	667.7	-193.42.435e+06	8.994e+04	8.106e+05
417	ok 0.04	0.6	5.56e-04	70.7	70.7	70.7	70.7	67.0	781.0	1.72.958e+06	5.438e+05	2.804e+05
418	ok 0.04	0.6	0.070.7	70.7	70.7	70.7	277.6	773.9	142.03.151e+06	1.163e+06-1.293e+05		
419	ok 0.04	0.6	0.070.7	70.7	70.7	70.7	507.6	696.1	183.23.122e+06	1.805e+06-3.123e+05		
420	ok 0.04	0.6	0.070.7	70.7	70.7	70.7	684.7	613.1	121.93.018e+06	2.298e+06-2.569e+05		
421	ok 0.04	0.8	0.070.7	70.7	70.7	70.7	241.3	732.1	-226.33.847e+06	1.582e+06-1.086e+05		
422	ok 0.04	0.7	1.04e-03	70.7	70.7	70.7	70.7	-3.9	781.4	-65.13.530e+06	9.532e+05-5.124e+05	
423	ok 0.04	0.6	3.33e-03	70.7	70.7	70.7	70.7	-147.8	691.5	166.62.879e+06	4.426e+05-1.030e+06	
424	ok 0.04	0.5	6.47e-03	70.7	70.7	70.7	70.7	-135.5	471.9	388.91.882e+06	1.164e+05-1.509e+06	
425	ok 0.04	0.4	9.47e-03	70.7	70.7	70.7	70.7	-46.8	108.0	513.95.959e+05-3.370e+04-1.802e+06		
426	ok 0.04	0.5	1.22e-02	70.7	70.7	70.7	70.7	53.8	-315.7	492.0-8.156e+05-1.202e+05-1.801e+06		
427	ok 0.04	0.6	1.45e-02	70.7	70.7	70.7	70.7	126.1	-665.3	328.6-2.112e+06-2.725e+05-1.508e+06		
428	ok 0.04	0.7	1.64e-02	70.7	70.7	70.7	70.7	108.4	-855.8	75.9-3.131e+06-6.045e+05-1.024e+06		
429	ok 0.04	0.7	1.78e-02	70.7	70.7	70.7	70.7	-76.6	-908.2	-173.0-3.811e+06-1.128e+06-4.914e+05		
430	ok 0.04	0.7	1.87e-02	70.7	70.7	70.7	70.7	-367.0	-818.1	-335.0-4.151e+06-1.786e+06-6.472e+04		
431	ok 0.04	0.7	1.91e-02	70.7	70.7	70.7	70.7	-704.2	-662.6	-349.4-4.242e+06-2.443e+06	1.648e+05	
432	ok 0.04	0.7	1.93e-02	70.7	70.7	70.7	70.7	-946.9	-510.3	-222.6-4.221e+06-2.934e+06	1.689e+05	
433	ok 0.04	0.7	1.93e-02	70.7	70.7	70.7	70.7	-1036.8	-447.4	-17.7-4.205e+06-3.125e+06	3.408e+04	
434	ok 0.04	0.7	1.93e-02	70.7	70.7	70.7	70.7	-963.7	-505.4	201.5-4.223e+06-2.969e+06-1.147e+05		
435	ok 0.04	0.7	1.92e-02	70.7	70.7	70.7	70.7	-734.1	-656.5	336.8-4.250e+06-2.512e+06-1.184e+05		
436	ok 0.04	0.7	1.88e-02	70.7	70.7	70.7	70.7	-403.5	-817.2	332.7-4.166e+06-1.884e+06	9.890e+04	
437	ok 0.04	0.7	1.80e-02	70.7	70.7	70.7	70.7	-112.3	-916.0	178.8-3.839e+06-1.250e+06	5.109e+05	
438	ok 0.04	0.7	1.67e-02	70.7	70.7	70.7	70.7	78.1	-874.1	-67.0-3.177e+06-7.430e+05	1.029e+06	
439	ok 0.04	0.6	1.49e-02	70.7	70.7	70.7	70.7	102.4	-690.9	-321.9-2.181e+06-4.201e+05	1.501e+06	
440	ok 0.04	0.5	1.27e-02	70.7	70.7	70.7	70.7	33.8	-343.7	-491.6-9.102e+05-2.701e+05	1.787e+06	
441	ok 0.04	0.3	9.97e-03	70.7	70.7	70.7	70.7	-67.3	84.2	-520.04.811e+05-1.838e+05	1.792e+06	
442	ok 0.04	0.5	6.99e-03	70.7	70.7	70.7	70.7	-159.0	457.2	-397.61.762e+06-3.636e+04	1.509e+06	
443	ok 0.04	0.6	3.84e-03	70.7	70.7	70.7	70.7	-148.1	709.5	-175.92.786e+06	2.774e+05	1.031e+06
444	ok 0.04	0.7	1.05e-03	70.7	70.7	70.7	70.7	-31.1	782.1	63.63.459e+06	7.902e+05	5.115e+05
445	ok 0.04	0.7	0.070.7	70.7	70.7	70.7	215.4	736.9	231.23.808e+06	1.432e+06	8.545e+04	
446	ok 0.04	0.8	0.070.7	70.7	70.7	70.7	512.6	620.1	268.63.912e+06	2.079e+06-1.503e+05		
447	ok 0.04	0.8	0.070.7	70.7	70.7	70.7	728.6	493.5	178.23.898e+06	2.567e+06-1.665e+05		
448	ok 0.04	0.8	0.070.7	70.7	70.7	70.7	808.6	439.3	16.63.884e+06	2.766e+06-4.474e+04		
449	ok 0.04	0.8	0.070.7	70.7	70.7	70.7	740.0	488.4	-160.03.904e+06	2.627e+06	9.721e+04	





399	ok	3.00							
400	ok Av	4.36	0.03	0.08	1.9	4.6	324.0	800.4	
401	ok Av	5.99	0.02	0.12	1.3	6.8	233.3	1184.8	
402	ok Av	7.54	0.08	0.14	4.4	7.9	763.6	1384.2	
403	ok Av	8.86	0.13	0.14	7.5	7.8	1299.3	1363.4	
404	ok Av	9.87	0.18	0.12	10.0	6.5	1749.4	1125.0	
405	ok Av	10.50	0.21	0.07	11.7	4.1	2037.4	708.3	
406	ok Av	10.72	0.22	0.02	12.1	1.1	2114.7	183.8	
407	ok Av	10.55	0.21	0.07	11.8	4.0	2050.7	700.7	
408	ok Av	9.98	0.18	0.12	10.2	6.5	1775.5	1125.9	
409	ok Av	9.02	0.14	0.14	7.7	7.9	1335.3	1376.8	
410	ok Av	7.74	0.08	0.15	4.6	8.1	805.1	1412.3	
411	ok Av	6.22	0.03	0.13	1.6	7.0	274.9	1228.3	
412	ok Av	4.59	0.03	0.09	1.7	5.0	298.6	867.1	
413	ok	3.14							
414	ok	2.64							
415	ok	3.60							
416	ok Av	5.09	0.01	0.10	0.7	5.8	130.6	1006.7	
417	ok Av	6.58	0.06	0.13	3.6	7.0	625.0	1226.3	
418	ok Av	7.88	0.12	0.13	6.5	7.1	1131.6	1235.1	
419	ok Av	8.87	0.16	0.11	9.0	5.9	1561.8	1033.7	
420	ok Av	9.50	0.19	0.07	10.6	3.8	1840.5	658.9	
421	ok Av	9.69	0.14	0.16	7.6	8.8	1321.7	1528.8	
422	ok Av	8.33	0.07	0.16	4.0	9.0	689.3	1565.2	
423	ok Av	6.75	9.47e-03	0.14	0.5	7.6	91.7	1333.4	
424	ok Av	5.21	0.06	0.09	3.1	5.1	545.3	884.2	
425	ok	4.12							
426	ok Av	4.36	0.08	0.04	4.4	2.4	770.5	416.3	
427	ok Av	5.69	0.05	0.10	3.0	5.8	521.8	1006.9	
428	ok Av	7.39	0.01	0.15	0.7	8.4	119.1	1462.7	
429	ok Av	9.08	0.08	0.18	4.4	9.7	774.8	1698.1	
430	ok Av	10.55	0.15	0.17	8.3	9.5	1443.2	1658.5	
431	ok Av	11.67	0.21	0.14	11.5	7.7	2010.9	1349.6	
432	ok Av	12.37	0.25	0.08	13.7	4.7	2381.5	822.8	
433	ok Av	12.61	0.26	0.02	14.3	1.0	2492.1	179.6	
434	ok Av	12.43	0.25	0.08	13.8	4.6	2398.0	809.2	
435	ok Av	11.79	0.21	0.14	11.7	7.7	2042.9	1346.0	
436	ok Av	10.72	0.15	0.17	8.5	9.6	1487.0	1669.7	
437	ok Av	9.30	0.09	0.18	4.7	9.9	825.1	1727.0	
438	ok Av	7.63	0.02	0.16	1.0	8.7	169.7	1510.3	
439	ok Av	5.89	0.05	0.11	2.8	6.1	487.4	1068.5	
440	ok Av	4.48	0.08	0.05	4.3	2.8	752.1	494.9	
441	ok	3.96							
442	ok Av	4.90	0.06	0.08	3.3	4.6	566.6	799.0	
443	ok Av	6.39	0.01	0.13	0.8	7.2	136.5	1259.2	
444	ok Av	8.01	0.06	0.16	3.5	8.7	618.8	1518.3	



445	ok Av	9.43	0.13	0.16	7.2	8.7	1252.9	1513.4
446	ok Av	10.53	0.19	0.13	10.3	7.2	1797.0	1247.8
447	ok Av	11.23	0.22	0.08	12.4	4.4	2156.2	769.9
448	ok Av	11.48	0.23	0.02	13.0	1.0	2268.6	176.7
449	ok Av	11.32	0.23	0.08	12.5	4.2	2183.9	739.7
450	ok Av	10.71	0.19	0.13	10.6	7.1	1849.7	1235.8
451	ok Av	6.18	0.07	0.11	3.6	6.0	629.8	1048.5
452	ok Av	4.93	0.09	0.04	5.2	2.0	911.1	348.2
453	ok Av	5.18	0.09	0.05	5.2	2.8	905.6	481.2
454	ok Av	6.71	0.06	0.12	3.5	6.8	604.4	1182.7
455	ok Av	8.61	5.96e-03	0.18	0.3	9.8	57.7	1703.4
456	ok Av	10.45	0.08	0.20	4.6	11.2	798.8	1953.3
457	ok Av	12.04	0.16	0.20	9.0	10.8	1562.0	1888.9
458	ok Av	13.23	0.23	0.16	12.7	8.7	2217.9	1520.3
459	ok Av	13.96	0.27	0.09	15.2	5.2	2655.1	908.9
460	ok Av	14.17	0.29	0.02	16.1	0.9	2800.5	158.4
461	ok Av	14.01	0.28	0.09	15.3	5.1	2674.8	893.3
462	ok Av	13.35	0.23	0.16	12.9	8.7	2254.4	1514.9
463	ok Av	12.22	0.17	0.20	9.2	10.9	1611.2	1899.1
464	ok Av	10.68	0.09	0.20	4.9	11.4	855.2	1982.3
465	ok Av	8.85	0.01	0.18	0.7	10.1	114.8	1752.9
466	ok Av	6.94	0.06	0.13	3.2	7.2	563.5	1252.4
467	ok Av	5.30	0.09	0.06	5.1	3.3	881.0	568.8
468	ok Av	4.72	0.09	0.03	5.2	1.4	901.0	246.7
469	ok Av	5.80	0.07	0.10	3.7	5.4	653.0	945.8
470	ok Av	7.51	0.01	0.15	0.8	8.5	145.0	1478.9
471	ok Av	9.26	0.07	0.18	3.6	10.1	629.5	1755.6
472	ok Av	10.81	0.14	0.18	7.8	9.9	1353.8	1730.3
473	ok Av	11.98	0.20	0.15	11.4	8.1	1982.7	1410.3
474	ok Av	12.70	0.25	0.09	13.8	4.9	2406.7	853.8
475	ok Av	12.93	0.26	0.02	14.7	0.9	2554.2	160.3
476	ok Av	12.79	0.25	0.08	14.0	4.7	2440.7	815.9
477	ok Av	12.17	0.21	0.14	11.7	8.0	2045.5	1392.4
478	ok Av	11.09	0.15	0.18	8.2	10.0	1435.5	1743.9
479	ok Av	9.63	0.07	0.19	4.1	10.4	712.7	1807.1
480	ok Av	7.91	9.17e-03	0.16	0.5	9.0	88.8	1564.1

<b>Nodo</b>	<b>Max tau</b>	<b>Ver V pr</b>	<b>Ver V sec</b>	<b>Af V pr</b>	<b>Af V sec</b>	<b>V pr</b>	<b>V sec</b>
14.17	0.29	0.20	16.06	11.37	2800.53	1982.33	

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
14	218.00	9	1	Singolo elemento





Nodo	Statox/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
								N/mm	N/mm	N/mm	N	N	N
451	ok 0.03	0.5	6.72e-03	70.7	70.7	70.7	70.7	-89.2	540.0	460.02.289e+06	2.814e+05	-1.756e+06	
452	ok 0.03	0.4	1.02e-02	70.7	70.7	70.7	70.7	-23.2	125.6	586.67.429e+05		7388.8-2.077e+06	
453	ok 0.03	0.5	1.34e-02	70.7	70.7	70.7	70.7	11.1	-353.6	564.2-1.006e+06	-2.116e+05	-2.079e+06	
454	ok 0.03	0.6	1.61e-02	70.7	70.7	70.7	70.7	60.8	-754.2	399.5-2.565e+06	-4.875e+05	-1.761e+06	
455	ok 0.03	0.7	1.82e-02	70.7	70.7	70.7	70.7	-4.3	-1016.9	145.1-3.829e+06	-9.378e+05	-1.226e+06	
456	ok 0.03	0.8	1.97e-02	70.7	70.7	70.7	70.7	-204.8	-1106.7	-110.7-4.698e+06	-1.587e+06	-6.370e+05	
457	ok 0.03	0.8	2.06e-02	70.7	70.7	70.7	70.7	-505.7	-1046.1	-279.9-5.179e+06	-2.361e+06	-1.548e+05	
458	ok 0.03	0.8	2.09e-02	70.7	70.7	70.7	70.7	-826.6	-904.4	-307.8-5.369e+06	-3.113e+06	1.148e+05	
459	ok 0.03	0.8	2.07e-02	70.7	70.7	70.7	70.7	-1071.2	-770.2	-193.7-5.401e+06	-3.668e+06	1.596e+05	
460	ok 0.03	0.8	2.04e-02	70.7	70.7	70.7	70.7	-1161.6	-716.3	8.5-5.390e+06	-3.887e+06	6.036e+04	
461	ok 0.03	0.8	2.06e-02	70.7	70.7	70.7	70.7	-1089.9	-765.3	170.1-5.407e+06	-3.708e+06	-9.605e+04	
462	ok 0.03	0.8	2.09e-02	70.7	70.7	70.7	70.7	-860.3	-898.7	292.9-5.383e+06	-3.193e+06	-5.862e+04	
463	ok 0.03	0.8	2.07e-02	70.7	70.7	70.7	70.7	-547.2	-1045.0	275.9-5.204e+06	-2.477e+06	1.992e+05	
464	ok 0.03	0.8	1.99e-02	70.7	70.7	70.7	70.7	-247.0	-1115.1	115.7-4.736e+06	-1.733e+06	6.660e+05	
465	ok 0.03	0.7	1.85e-02	70.7	70.7	70.7	70.7	-41.9	-1036.5	-136.2-3.887e+06	-1.108e+06	1.238e+06	
466	ok 0.03	0.7	1.65e-02	70.7	70.7	70.7	70.7	28.8	-782.8	-392.5-2.649e+06	-6.727e+05	1.757e+06	
467	ok 0.03	0.5	1.39e-02	70.7	70.7	70.7	70.7	-17.7	-384.9	-563.2-1.121e+06	-4.029e+05	2.065e+06	
468	ok 0.03	0.4	1.08e-02	70.7	70.7	70.7	70.7	-53.2	98.7	-592.55.994e+05	-1.850e+05	2.064e+06	
469	ok 0.03	0.5	7.33e-03	70.7	70.7	70.7	70.7	-122.6	522.9	-467.52.135e+06	8.681e+04	1.754e+06	
470	ok 0.03	0.7	3.61e-03	70.7	70.7	70.7	70.7	-90.8	822.2	-240.73.387e+06	5.266e+05	1.231e+06	
471	ok 0.03	0.8	8.81e-04	70.7	70.7	70.7	70.7	68.3	955.7	3.74.255e+06	1.161e+06	6.496e+05	
472	ok 0.03	0.9	0.070.7	70.7	70.7	70.7	326.3	939.2	179.24.742e+06	1.921e+06	1.693e+05		
473	ok 0.03	1.0	0.070.7	70.7	70.7	70.7	610.0	834.9	230.14.941e+06	2.664e+06	-1.051e+05		
474	ok 0.03	1.0	0.070.7	72.6	70.7	70.7	828.9	725.4	151.94.980e+06	3.218e+06	-1.593e+05		
475	ok 0.04	1.0	0.070.7	73.6	70.7	70.7	909.3	679.3	-7.14.974e+06	3.447e+06	-7.001e+04		
476	ok 0.03	1.0	0.070.7	73.0	70.7	70.8	842.4	719.9	-130.64.991e+06	3.290e+06	7.965e+04		
477	ok 0.03	1.0	0.070.7	70.7	70.7	70.7	634.4	827.8	-214.94.969e+06	2.801e+06	4.657e+04		
478	ok 0.03	0.9	0.070.7	70.7	70.7	70.7	357.5	934.1	-171.44.799e+06	2.105e+06	-1.977e+05		
479	ok 0.03	0.8	8.75e-04	70.7	70.7	70.7	70.7	103.0	955.6	-2.54.352e+06	1.364e+06	-6.513e+05	
480	ok 0.03	0.7	3.00e-03	70.7	70.7	70.7	70.7	-55.3	829.4	236.33.524e+06	7.283e+05	-1.224e+06	
481	ok 0.03	0.8	4.98e-03	70.7	70.7	70.7	70.7	-172.1	890.8	200.93.972e+06	1.114e+06	-1.562e+06	
482	ok 0.03	0.6	8.49e-03	70.7	70.7	70.7	70.7	-177.8	599.1	487.52.533e+06	5.303e+05	-2.036e+06	
483	ok 0.03	0.4	1.18e-02	70.7	70.7	70.7	70.7	-46.8	148.5	652.28.063e+05	6.723e+04	-2.325e+06	
484	ok 0.03	0.6	1.48e-02	70.7	70.7	70.7	70.7	47.7	-397.6	629.5-1.078e+06	-3.467e+05	-2.336e+06	
485	ok 0.03	0.8	1.73e-02	70.7	70.7	70.7	70.7	160.9	-833.8	420.1-2.823e+06	-8.068e+05	-2.067e+06	
486	ok 0.03	0.9	1.93e-02	70.7	70.7	70.7	70.7	120.6	-1095.1	96.6-4.309e+06	-1.382e+06	-1.603e+06	
487	ok 0.03	1.0	2.08e-02	70.7	70.7	70.7	70.7	-102.3	-1139.2	-225.4-5.439e+06	-2.077e+06	-1.070e+06	
488	ok 0.03	1.0	2.17e-02	72.6	70.7	70.7	70.7	-463.4	-998.6	-431.0-6.202e+06	-2.829e+06	-5.908e+05	
489	ok 0.04	1.0	2.22e-02	73.7	70.7	70.7	70.7	-858.9	-766.9	-449.1-6.649e+06	-3.518e+06	-2.480e+05	
490	ok 0.03	1.0	2.24e-02	72.8	70.7	70.8	70.7	-1163.6	-561.8	-279.8-6.868e+06	-4.010e+06	-5.510e+04	
491	ok 0.03	1.0	2.24e-02	72.2	70.7	70.7	70.7	-1276.9	-479.2	5.7-6.935e+06	-4.201e+06	4.161e+04	
492	ok 0.03	1.0	2.24e-02	72.7	70.7	70.7	70.7	-1159.7	-556.8	292.6-6.876e+06	-4.050e+06	1.377e+05	
493	ok 0.04	1.0	2.22e-02	73.6	70.7	70.7	70.7	-895.2	-760.4	433.0-6.674e+06	-3.607e+06	3.156e+05	





473	ok Av	11.74	0.20	0.14	11.4	8.0	2111.4	1483.9
474	ok Av	12.50	0.25	0.09	13.7	4.9	2549.5	903.2
475	ok Av	12.78	0.26	0.02	14.5	0.9	2691.5	172.7
476	ok Av	12.60	0.25	0.08	13.9	4.6	2583.1	863.2
477	ok Av	11.93	0.21	0.14	11.7	7.9	2175.7	1465.4
478	ok Av	10.83	0.15	0.18	8.3	9.8	1537.2	1826.1
479	ok Av	9.36	0.08	0.18	4.2	10.1	774.4	1879.9
480	ok Av	7.66	0.01	0.16	0.7	8.7	130.1	1610.4
481	ok Av	9.52	0.03	0.19	1.5	10.7	271.1	1989.6
482	ok Av	7.86	0.09	0.13	5.3	7.2	976.8	1340.9
483	ok Av	6.75	0.13	0.04	7.3	2.4	1350.9	448.5
484	ok Av	6.96	0.13	0.06	7.2	3.2	1342.4	596.1
485	ok Av	8.37	0.09	0.14	5.1	8.0	949.2	1488.0
486	ok Av	10.22	0.02	0.21	1.2	11.5	225.6	2144.8
487	ok Av	12.10	0.08	0.24	4.3	13.2	796.1	2453.9
488	ok Av	13.74	0.17	0.23	9.5	12.7	1769.6	2362.1
489	ok Av	15.00	0.25	0.18	14.1	10.1	2610.2	1884.1
490	ok Av	15.76	0.31	0.11	17.1	5.9	3175.4	1100.0
491	ok Av	15.99	0.33	0.01	18.1	0.8	3370.6	142.9
492	ok Av	15.82	0.31	0.10	17.2	5.8	3199.1	1076.7
493	ok Av	15.12	0.26	0.18	14.3	10.1	2654.3	1872.6
494	ok Av	13.92	0.18	0.23	9.8	12.8	1829.4	2368.7
495	ok Av	12.32	0.08	0.24	4.7	13.4	865.3	2482.8
496	ok Av	10.45	0.02	0.21	0.9	11.8	161.6	2198.2
497	ok Av	8.55	0.09	0.15	4.8	8.4	892.8	1566.5
498	ok Av	7.01	0.13	0.07	7.0	3.8	1303.5	698.6
499	ok Av	6.50	0.13	0.03	7.2	1.8	1332.9	325.1
500	ok Av	7.46	0.10	0.12	5.4	6.5	1003.5	1212.5
501	ok Av	9.08	0.03	0.18	1.9	10.1	345.1	1883.9
502	ok Av	10.84	0.06	0.22	3.3	12.0	604.6	2225.2
503	ok Av	12.42	0.15	0.21	8.2	11.7	1530.7	2180.5
504	ok Av	13.64	0.23	0.17	12.6	9.5	2338.2	1761.0
505	ok Av	14.40	0.28	0.10	15.5	5.6	2886.9	1042.9
506	ok Av	14.63	0.30	0.01	16.6	0.8	3084.1	154.2
507	ok Av	14.48	0.28	0.10	15.8	5.3	2929.7	984.6
508	ok Av	13.83	0.23	0.17	13.0	9.3	2418.5	1727.1
509	ok Av	12.71	0.16	0.21	8.8	11.8	1636.9	2187.3
510	ok Av	11.22	0.07	0.22	3.8	12.3	713.2	2283.8

<b>Nodo</b>	<b>Max tau</b>	<b>Ver V pr</b>	<b>Ver V sec</b>	<b>Af V pr</b>	<b>Af V sec</b>	<b>V pr</b>	<b>V sec</b>
15.99	0.33	0.24	18.14	13.36	3370.56	2482.80	

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
15	225.00	9	1	Singolo elemento



Nodo	Statox/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
								N/mm	N/mm	N/mm	N	N	N
481	ok 0.03	0.8	3.46e-03	70.7	70.7	70.7	70.7	-104.5	917.0	252.94.109e+06	1.092e+06	-1.524e+06	
482	ok 0.03	0.6	7.39e-03	70.7	70.7	70.7	70.7	-135.6	599.3	511.82.634e+06	5.042e+05	-2.051e+06	
483	ok 0.03	0.4	1.11e-02	70.7	70.7	70.7	70.7	-49.2	138.5	659.68.417e+05	6.143e+04	-2.368e+06	
484	ok 0.03	0.6	1.44e-02	70.7	70.7	70.7	70.7	32.0	-388.2	636.4-1.132e+06	-3.311e+05	-2.374e+06	
485	ok 0.03	0.7	1.73e-02	70.7	70.7	70.7	70.7	101.7	-835.2	447.7-2.940e+06	-7.742e+05	-2.070e+06	
486	ok 0.03	0.9	1.95e-02	70.7	70.7	70.7	70.7	37.9	-1124.8	155.0-4.457e+06	-1.360e+06	-1.550e+06	
487	ok 0.03	0.9	2.11e-02	70.7	70.7	70.7	70.7	-184.2	-1216.8	-139.9-5.577e+06	-2.102e+06	-9.611e+05	
488	ok 0.03	1.0	2.20e-02	70.7	70.7	70.7	70.7	-524.8	-1137.2	-334.9-6.295e+06	-2.927e+06	-4.495e+05	
489	ok 0.03	1.0	2.23e-02	70.7	70.7	70.7	70.7	-862.6	-970.0	-389.8-6.642e+06	-3.707e+06	-1.498e+05	
490	ok 0.03	1.0	2.21e-02	70.7	70.7	70.7	70.7	-1173.7	-806.7	-234.4-6.846e+06	-4.257e+06	3.577e+04	
491	ok 0.03	1.0	2.18e-02	70.7	70.7	70.7	70.7	-1281.2	-742.2	0.2-6.885e+06	-4.476e+06	6.131e+04	
492	ok 0.03	1.0	2.20e-02	70.7	70.7	70.7	70.7	-1179.1	-805.8	236.7-6.836e+06	-4.309e+06	8.239e+04	
493	ok 0.03	1.0	2.23e-02	70.7	70.7	70.7	70.7	-900.2	-966.4	372.9-6.665e+06	-3.800e+06	2.173e+05	
494	ok 0.03	1.0	2.21e-02	70.7	70.7	70.7	70.7	-571.2	-1137.1	329.7-6.330e+06	-3.061e+06	5.075e+05	
495	ok 0.03	0.9	2.13e-02	70.7	70.7	70.7	70.7	-231.8	-1226.4	144.6-5.627e+06	-2.276e+06	1.004e+06	
496	ok 0.03	0.9	1.98e-02	70.7	70.7	70.7	70.7	-4.8	-1146.4	-145.3-4.526e+06	-1.568e+06	1.574e+06	
497	ok 0.03	0.8	1.77e-02	70.7	70.7	70.7	70.7	66.0	-866.5	-439.5-3.036e+06	-1.006e+06	2.073e+06	
498	ok 0.03	0.6	1.50e-02	70.7	70.7	70.7	70.7	1.4	-422.9	-634.5-1.263e+06	-5.740e+05	2.361e+06	
499	ok 0.03	0.4	1.17e-02	70.7	70.7	70.7	70.7	-79.4	108.6	-665.46.757e+05	-1.836e+05	2.349e+06	
500	ok 0.03	0.6	8.01e-03	70.7	70.7	70.7	70.7	-168.6	580.5	-520.62.449e+06	2.587e+05	2.042e+06	
501	ok 0.03	0.7	4.07e-03	70.7	70.7	70.7	70.7	-140.0	910.0	-259.33.941e+06	8.417e+05	1.526e+06	
502	ok 0.03	0.9	1.06e-03	70.7	70.7	70.7	70.7	36.9	1050.4	21.85.046e+06	1.580e+06	9.409e+05	
503	ok 0.03	1.0	0.070.7	75.7	70.7	73.1	329.8	1020.1	223.15.755e+06	2.403e+06	4.325e+05		
504	ok 0.04	1.0	0.070.7	83.5	70.7	71.9	629.2	891.5	300.26.099e+06	3.186e+06	1.340e+05		
505	ok 0.04	1.0	0.070.7	87.9	70.7	71.1	908.1	758.9	187.96.302e+06	3.744e+06	-4.935e+04		
506	ok 0.04	1.0	0.070.7	89.6	70.7	70.7	1004.5	702.6	1.16.344e+06	3.979e+06	-7.168e+04		
507	ok 0.04	1.0	0.070.7	88.5	70.7	71.2	910.6	753.6	-187.56.301e+06	3.834e+06	-8.488e+04		
508	ok 0.04	1.0	0.070.7	84.8	70.7	72.4	657.4	883.0	-283.76.142e+06	3.347e+06	-2.042e+05		
509	ok 0.03	1.0	0.070.7	77.4	70.7	73.4	363.7	1012.1	-216.05.831e+06	2.623e+06	-4.711e+05		
510	ok 0.03	0.9	1.05e-03	70.7	70.7	70.7	70.7	72.8	1048.4	-22.55.169e+06	1.829e+06	-9.492e+05	
511	ok 0.04	1.0	2.37e-03	70.7	81.8	70.7	81.0	-45.7	1080.2	-147.45.966e+06	2.429e+06	-1.472e+06	
512	ok 0.03	0.9	6.11e-03	70.7	70.7	70.7	70.7	-251.0	1000.8	206.94.601e+06	1.639e+06	-1.941e+06	
513	ok 0.03	0.7	9.76e-03	70.7	70.7	70.7	70.7	-249.1	681.0	549.92.888e+06	8.735e+05	-2.355e+06	
514	ok 0.03	0.5	1.32e-02	70.7	70.7	70.7	70.7	-79.1	171.2	750.69.098e+05	1.651e+05	-2.604e+06	
515	ok 0.03	0.7	1.63e-02	70.7	70.7	70.7	70.7	77.5	-445.9	725.8-1.204e+06	-5.237e+05	-2.620e+06	
516	ok 0.03	0.9	1.89e-02	70.7	70.7	70.7	70.7	228.1	-940.9	476.9-3.202e+06	-1.227e+06	-2.404e+06	
517	ok 0.03	1.0	2.10e-02	73.2	70.7	73.2	70.7	193.1	-1228.7	93.2-4.977e+06	-1.975e+06	-2.016e+06	
518	ok 0.04	1.0	2.25e-02	81.5	70.7	74.8	70.7	-61.9	-1260.6	-286.8-6.434e+06	-2.753e+06	-1.538e+06	
519	ok 0.04	1.0	2.36e-02	87.4	70.7	71.7	70.7	-483.0	-1077.1	-526.3-7.533e+06	-3.508e+06	-1.054e+06	
520	ok 0.04	1.0	2.41e-02	90.3	70.7	70.8	70.7	-946.7	-791.0	-541.9-8.279e+06	-4.154e+06	-6.217e+05	
521	ok 0.04	1.0	2.42e-02	91.5	70.7	70.7	70.7	-1275.8	-546.8	-381.3-8.697e+06	-4.598e+06	-2.775e+05	
522	ok 0.04	1.0	2.42e-02	91.6	70.7	70.7	70.7	-1436.8	-445.9	9.2-8.846e+06	-4.773e+06	5.109e+04	





502	ok Av	10.76	0.06	0.21	3.5	11.9	668.3	2286.8
503	ok Av	12.39	0.15	0.21	8.5	11.7	1631.8	2252.7
504	ok Av	13.68	0.23	0.17	12.9	9.5	2466.8	1826.7
505	ok Av	14.49	0.28	0.10	15.8	5.7	3028.4	1086.4
506	ok Av	14.79	0.30	0.02	16.8	0.9	3220.1	163.6
507	ok Av	14.59	0.29	0.10	16.0	5.3	3070.7	1026.7
508	ok Av	13.88	0.24	0.17	13.3	9.3	2548.4	1792.9
509	ok Av	12.70	0.16	0.21	9.1	11.8	1740.5	2261.3
510	ok Av	11.16	0.07	0.22	4.1	12.2	779.9	2348.9
511	ok Av	13.56	0.07	0.27	3.9	15.0	758.0	2875.7
512	ok Av	11.76	0.04	0.24	2.4	13.1	459.3	2522.1
513	ok Av	10.05	0.13	0.16	7.2	8.9	1374.3	1707.5
514	ok Av	8.95	0.17	0.05	9.7	3.0	1864.3	572.7
515	ok Av	9.14	0.17	0.07	9.7	3.8	1852.3	736.4
516	ok Av	10.55	0.13	0.17	7.0	9.7	1344.7	1865.4
517	ok Av	12.50	0.04	0.25	2.2	14.0	421.1	2691.5
518	ok Av	14.53	0.08	0.29	4.3	16.0	832.9	3074.7
519	ok Av	16.34	0.19	0.28	10.8	15.4	2066.4	2949.7
520	ok Av	17.74	0.29	0.22	16.3	12.2	3134.7	2337.1
521	ok Av	18.60	0.36	0.13	20.1	7.0	3856.8	1339.8
522	ok Av	18.87	0.39	0.01	21.4	0.7	4111.3	127.1
523	ok Av	18.67	0.36	0.12	20.2	6.8	3884.4	1310.1
524	ok Av	17.87	0.30	0.22	16.6	12.1	3186.5	2320.6
525	ok Av	16.53	0.20	0.28	11.1	15.4	2137.2	2953.6
526	ok Av	14.75	0.09	0.29	4.8	16.2	916.0	3103.7
527	ok Av	12.71	0.03	0.26	1.8	14.3	339.8	2748.8
528	ok Av	10.68	0.12	0.18	6.6	10.2	1268.6	1953.0
529	ok Av	9.11	0.17	0.08	9.3	4.5	1793.0	855.9
530	ok Av	8.62	0.17	0.04	9.5	2.2	1831.3	420.8
531	ok Av	9.56	0.13	0.14	7.3	8.0	1401.7	1541.4
532	ok Av	11.23	0.05	0.22	2.9	12.4	557.9	2384.2
533	ok Av	13.12	0.06	0.26	3.2	14.6	613.3	2806.2
534	ok Av	14.85	0.17	0.26	9.3	14.3	1789.0	2738.2
535	ok Av	16.21	0.26	0.21	14.7	11.4	2816.8	2196.3
536	ok Av	17.06	0.33	0.12	18.3	6.7	3518.6	1278.8
537	ok Av	17.33	0.35	0.01	19.7	0.8	3775.5	149.2
538	ok Av	17.15	0.34	0.11	18.6	6.2	3571.6	1195.7
539	ok Av	16.41	0.27	0.20	15.2	11.2	2918.9	2142.0
540	ok Av	15.18	0.18	0.26	10.0	14.3	1928.1	2735.7

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
18.87	0.39	0.29	21.42	16.17	4111.32	3103.70	

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			



Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
16	232.00	9	1	Singolo elemento

Nodo	Statox/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
				N/mm		N/mm		N/mm	N	N	N		
511	ok 0.03	1.0	1.48e-03	72.2	79.7	72.2	79.7	20.4	1155.3	-66.56.115e+06	2.452e+06	-1.365e+06	
512	ok 0.03	0.9	4.59e-03	72.2	72.2	72.2	72.2	-181.5	1029.7	264.84.763e+06	1.616e+06	-1.894e+06	
513	ok 0.03	0.7	8.68e-03	72.2	72.2	72.2	72.2	-201.3	681.5	579.23.014e+06	8.444e+05	-2.367e+06	
514	ok 0.03	0.5	1.25e-02	72.2	72.2	72.2	72.2	-73.8	160.0	760.49.688e+05	1.580e+05	-2.650e+06	
515	ok 0.03	0.6	1.60e-02	72.2	72.2	72.2	72.2	54.8	-435.2	735.5-1.283e+06	5.053e+05	-2.661e+06	
516	ok 0.03	0.8	1.89e-02	72.2	72.2	72.2	72.2	164.7	-942.5	509.4-3.345e+06	-1.190e+06	-2.404e+06	
517	ok 0.03	1.0	2.11e-02	72.2	72.2	72.2	72.2	110.1	-1261.0	157.0-5.148e+06	-1.951e+06	-1.953e+06	
518	ok 0.03	1.0	2.27e-02	78.7	72.2	75.8	72.2	-140.3	-1342.7	-197.2-6.589e+06	-2.781e+06	-1.415e+06	
519	ok 0.04	1.0	2.37e-02	83.9	72.2	72.6	72.2	-538.5	-1220.9	-429.1-7.634e+06	-3.615e+06	-8.972e+05	
520	ok 0.04	1.0	2.40e-02	86.7	72.2	72.2	72.2	-945.4	-996.0	-485.5-8.261e+06	-4.351e+06	-5.226e+05	
521	ok 0.04	1.0	2.38e-02	87.3	72.2	72.2	72.2	-1294.3	-789.5	-321.9-8.651e+06	-4.862e+06	-2.185e+05	
522	ok 0.04	1.0	2.36e-02	87.2	72.2	72.2	72.2	-1438.0	-705.9	-1.5-8.789e+06	-5.061e+06	7.198e+04	
523	ok 0.04	1.0	2.37e-02	87.3	72.2	72.2	72.2	-1317.4	-786.7	293.3-8.669e+06	-4.915e+06	3.039e+05	
524	ok 0.04	1.0	2.40e-02	86.6	72.2	72.3	72.2	-986.8	-993.0	466.4-8.296e+06	-4.456e+06	6.045e+05	
525	ok 0.04	1.0	2.38e-02	84.4	72.2	73.1	72.2	-590.4	-1221.3	422.4-7.683e+06	-3.769e+06	9.729e+05	
526	ok 0.03	1.0	2.29e-02	79.3	72.2	76.2	72.2	-194.4	-1353.1	201.8-6.653e+06	-2.985e+06	1.478e+06	
527	ok 0.03	1.0	2.15e-02	72.2	72.2	72.2	72.2	61.1	-1283.8	-145.9-5.229e+06	-2.202e+06	1.996e+06	
528	ok 0.03	0.8	1.93e-02	72.2	72.2	72.2	72.2	124.6	-976.3	-498.4-3.452e+06	-1.477e+06	2.421e+06	
529	ok 0.03	0.7	1.65e-02	72.2	72.2	72.2	72.2	23.3	-474.0	-730.8-1.427e+06	-8.130e+05	2.652e+06	
530	ok 0.03	0.4	1.31e-02	72.2	72.2	72.2	72.2	-101.2	125.7	-765.57.810e+05	-1.548e+05	2.625e+06	
531	ok 0.03	0.6	9.27e-03	72.2	72.2	72.2	72.2	-230.0	659.9	-590.42.795e+06	5.337e+05	2.347e+06	
532	ok 0.03	0.8	5.17e-03	72.2	72.2	72.2	72.2	-214.2	1023.3	-275.84.555e+06	1.304e+06	1.886e+06	
533	ok 0.03	1.0	1.49e-03	72.2	76.9	72.2	76.9	-15.8	1161.4	60.95.958e+06	2.148e+06	1.344e+06	
534	ok 0.04	1.0	0.072.2	92.1	72.2	78.7	326.6	1097.5	299.26.972e+06	3.001e+06	8.319e+05		
535	ok 0.04	1.0	0.072.2	102.7	72.2	76.7	687.3	918.9	382.37.577e+06	3.757e+06	4.690e+05		
536	ok 0.04	1.0	0.072.2	108.3	72.2	74.2	1001.3	745.3	264.87.955e+06	4.290e+06	1.841e+05		
537	ok 0.04	1.0	0.072.2	109.6	72.2	72.2	1131.0	671.7	4.38.094e+06	4.511e+06	-8.052e+04		
538	ok 0.04	1.0	0.072.2	109.6	72.2	74.9	1020.9	735.8	-235.57.987e+06	4.384e+06	-2.845e+05		
539	ok 0.04	1.0	0.072.2	105.1	72.2	78.0	720.6	903.9	-364.37.642e+06	3.942e+06	-5.529e+05		
540	ok 0.04	1.0	0.072.2	94.9	72.2	79.9	364.5	1082.9	-294.67.076e+06	3.260e+06	-8.858e+05		
541	ok 0.06	1.0	0.072.2	143.7	72.2	80.1	1159.6	438.1	-381.71.023e+07	4.667e+06	-6.660e+05		
542	ok 0.06	1.0	0.072.2	140.5	72.2	72.2	1316.6	332.3	-10.81.045e+07	4.727e+06	-7.367e+04		
543	ok 0.06	1.0	0.072.2	141.7	72.2	79.1	1134.1	455.3	418.21.018e+07	4.572e+06	5.598e+05		
544	ok 0.05	1.0	0.072.2	136.2	72.2	86.9	772.2	733.1	566.79.495e+06	4.213e+06	1.086e+06		
545	ok 0.05	1.0	1.25e-03	72.2	120.0	72.2	90.9	267.0	1051.6	517.58.367e+06	3.648e+06	1.600e+06	
546	ok 0.04	1.0	4.83e-03	72.2	95.6	72.2	89.7	-171.8	1237.7	215.46.868e+06	2.900e+06	2.044e+06	
547	ok 0.03	1.0	8.69e-03	72.2	72.4	72.2	72.4	-402.7	1161.7	-233.95.064e+06	2.002e+06	2.404e+06	
548	ok 0.03	0.7	1.24e-02	72.2	72.2	72.2	72.2	-371.3	782.9	-663.43.029e+06	9.931e+05	2.671e+06	
549	ok 0.03	0.5	1.60e-02	72.2	72.2	72.2	72.2	-130.6	169.7	-908.08.446e+05	-7.456e+04	2.836e+06	







529	ok Av	9.07	0.17	0.08	9.4	4.4	1863.4	862.4
530	ok Av	8.62	0.17	0.04	9.6	2.1	1900.8	416.5
531	ok Av	9.49	0.13	0.14	7.4	7.9	1469.7	1559.9
532	ok Av	11.14	0.06	0.22	3.1	12.3	606.3	2432.6
533	ok Av	13.03	0.06	0.26	3.4	14.6	669.9	2882.9
534	ok Av	14.79	0.17	0.26	9.5	14.3	1885.5	2826.8
535	ok Av	16.18	0.27	0.21	14.9	11.5	2942.4	2278.5
536	ok Av	17.07	0.33	0.12	18.5	6.8	3657.4	1337.5
537	ok Av	17.38	0.36	0.02	19.7	0.9	3908.1	171.5
538	ok Av	17.17	0.34	0.11	18.7	6.3	3710.3	1252.2
539	ok Av	16.39	0.28	0.20	15.4	11.2	3046.3	2223.6
540	ok Av	15.12	0.18	0.26	10.2	14.3	2028.0	2825.7
541	ok Av	20.64	0.40	0.13	22.3	7.3	4426.8	1441.9
542	ok Av	20.89	0.43	0.01	23.7	0.6	4698.7	119.0
543	ok Av	20.55	0.40	0.14	22.0	7.9	4362.1	1556.7
544	ok Av	19.54	0.31	0.25	17.5	13.8	3461.9	2731.8
545	ok Av	17.96	0.20	0.31	10.9	17.3	2150.8	3434.5
546	ok Av	15.97	0.06	0.32	3.3	17.9	655.7	3537.4
547	ok Av	13.85	0.07	0.27	3.9	15.2	780.6	3017.1
548	ok Av	12.02	0.17	0.18	9.4	9.9	1865.5	1958.5
549	ok Av	11.06	0.22	0.05	12.3	2.7	2428.9	541.5
550	ok Av	11.56	0.22	0.10	12.0	5.3	2377.5	1052.3
551	ok Av	13.23	0.15	0.22	8.6	12.3	1704.4	2441.1
552	ok Av	15.48	0.05	0.31	2.6	17.4	520.5	3444.0
553	ok Av	17.80	0.09	0.35	5.1	19.6	1006.0	3885.4
554	ok Av	19.86	0.23	0.33	12.9	18.6	2557.0	3685.4
555	ok Av	21.44	0.35	0.26	19.7	14.5	3896.4	2874.0
556	ok Av	22.39	0.44	0.14	24.2	8.0	4794.8	1586.6
557	ok Av	22.66	0.46	7.07e-03	25.7	0.4	5098.3	77.8
558	ok Av	22.32	0.43	0.15	24.0	8.2	4763.9	1618.7
559	ok Av	21.29	0.35	0.26	19.4	14.6	3837.7	2892.4
560	ok Av	19.66	0.22	0.33	12.5	18.6	2475.6	3682.6
561	ok Av	17.58	0.08	0.35	4.6	19.5	908.1	3856.2
562	ok Av	15.29	0.06	0.31	3.1	17.1	621.7	3384.2
563	ok Av	13.16	0.16	0.21	9.1	11.8	1806.5	2346.1
564	ok Av	11.70	0.22	0.08	12.5	4.6	2468.8	915.3
565	ok Av	11.55	0.23	0.07	12.6	3.7	2493.2	729.8
566	ok Av	12.70	0.17	0.20	9.3	11.0	1844.7	2181.3
567	ok Av	14.54	0.06	0.29	3.2	16.2	638.4	3208.2
568	ok Av	16.52	0.08	0.33	4.3	18.3	853.3	3622.0
569	ok Av	18.32	0.21	0.31	11.8	17.2	2335.9	3415.9
570	ok Av	19.76	0.33	0.24	18.1	13.4	3591.2	2648.7

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
22.66	0.46	0.35	25.74	19.61	5098.33	3885.38	



Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
17	239.00	9	1	Singolo elemento

Nodo	Statox/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
				N/mm	N/mm	N/mm	N						
541	ok 0.05	1.0	0.074.4	136.9	74.4	82.5	1087.7	637.7	-358.71	0.003e+074.939e+06	-6.893e+05		
542	ok 0.05	1.0	0.074.4	134.2	74.4	75.0	1244.8	544.3	-46.11	0.028e+075.004e+06	-2.042e+05		
543	ok 0.05	1.0	0.074.4	135.0	74.4	81.6	1063.8	652.2	395.19	0.979e+064.834e+06	5.800e+05		
544	ok 0.05	1.0	0.074.4	128.2	74.4	87.8	662.5	897.8	547.09	0.278e+064.403e+06	1.054e+06		
545	ok 0.04	1.0	8.76e-04	74.4	114.1	74.4	90.2	324.8	1132.6	385.38	5.16e+06	3.673e+06	1.353e+06
546	ok 0.04	1.0	4.18e-03	74.4	92.5	74.4	88.2	-72.5	1263.5	105.97	1.104e+06	2.848e+06	1.866e+06
547	ok 0.03	0.9	8.29e-03	74.4	74.4	74.4	74.4	-287.9	1152.3	-303.05	0.330e+06	1.920e+06	2.321e+06
548	ok 0.03	0.7	1.22e-02	74.4	74.4	74.4	74.4	-271.5	763.5	-691.23	0.266e+06	9.328e+05	2.672e+06
549	ok 0.03	0.5	1.58e-02	74.4	74.4	74.4	74.4	-69.5	160.0	-910.21	0.101e+06	-7.901e+04	2.883e+06
550	ok 0.03	0.7	1.89e-02	74.4	74.4	74.4	74.4	4.7	-542.2	-864.3	-1.703e+06	-1.141e+06	2.945e+06
551	ok 0.03	1.0	2.13e-02	74.4	74.4	74.4	74.4	173.2	-1106.6	-578.8	-3.989e+06	-2.104e+06	2.816e+06
552	ok 0.03	1.0	2.31e-02	84.5	74.4	84.5	74.4	132.7	-1428.6	-146.8	-6.103e+06	-3.007e+06	2.525e+06
553	ok 0.04	1.0	2.48e-02	96.6	74.4	82.5	74.4	-150.7	-1458.4	274.2	-7.934e+06	-3.830e+06	2.099e+06
554	ok 0.04	1.0	2.57e-02	104.4	74.4	78.8	74.4	-612.0	-1247.4	531.8	-9.395e+06	-4.542e+06	1.583e+06
555	ok 0.04	1.0	2.58e-02	108.5	74.4	76.4	74.4	-987.4	-964.4	650.5	-1.017e+07	-5.196e+06	1.266e+06
556	ok 0.04	1.0	2.54e-02	110.4	74.4	75.1	74.4	-1411.6	-678.4	433.3	-1.088e+07	-5.525e+06	7.492e+05
557	ok 0.04	1.0	2.50e-02	110.8	74.4	74.5	74.4	-1584.8	-559.9	55.8	-1.116e+07	-5.600e+06	2.094e+05
558	ok 0.04	1.0	2.55e-02	110.2	74.4	74.7	74.4	-1386.2	-678.2	-465.2	-1.085e+07	-5.461e+06	-6.508e+05
559	ok 0.04	1.0	2.58e-02	107.9	74.4	75.6	74.4	-941.7	-964.7	-672.9	-1.012e+07	-5.074e+06	-1.167e+06
560	ok 0.04	1.0	2.56e-02	103.4	74.4	77.9	74.4	-554.1	-1249.6	-540.2	-9.327e+06	-4.374e+06	-1.484e+06
561	ok 0.04	1.0	2.45e-02	95.4	74.4	81.4	74.4	-89.0	-1451.0	-269.2	-7.852e+06	-3.597e+06	-2.008e+06
562	ok 0.03	1.0	2.27e-02	83.3	74.4	83.3	74.4	189.2	-1408.0	161.1	-6.008e+06	-2.710e+06	-2.453e+06
563	ok 0.03	0.9	2.10e-02	74.4	74.4	74.4	74.4	217.8	-1072.9	595.8	-3.873e+06	-1.752e+06	-2.776e+06
564	ok 0.03	0.7	1.84e-02	74.4	74.4	74.4	74.4	34.7	-499.8	875.7	-1.549e+06	-7.515e+05	-2.943e+06
565	ok 0.03	0.5	1.53e-02	74.4	74.4	74.4	74.4	-51.2	198.2	904.01	0.216e+06	3.178e+05	-2.922e+06
566	ok 0.03	0.7	1.17e-02	74.4	74.4	74.4	74.4	-252.3	785.2	673.03	0.525e+06	1.319e+06	-2.713e+06
567	ok 0.03	1.0	7.80e-03	74.4	75.3	74.4	75.3	-260.7	1153.7	285.25	0.590e+06	2.295e+06	-2.343e+06
568	ok 0.04	1.0	3.70e-03	74.4	96.6	74.4	90.2	-39.2	1247.8	-118.97	0.302e+06	3.216e+06	-1.905e+06
569	ok 0.04	1.0	8.65e-04	74.4	117.7	74.4	91.8	368.2	1104.0	-386.38	0.655e+06	3.974e+06	-1.430e+06
570	ok 0.05	1.0	0.074.4	131.2	74.4	89.3	702.1	873.1	-527.09	0.371e+064.613e+06	-1.155e+06		
571	ok 0.10	1.0	7.67e-03	74.4	210.3	74.4	119.9	775.1	522.0	-1145.31	0.338e+07	5.388e+06	-2.966e+06
572	ok 0.08	1.0	1.08e-02	74.4	189.3	74.4	131.9	282.1	1016.0	-930.91	0.183e+07	5.190e+06	-3.344e+06
573	ok 0.06	1.0	1.46e-02	74.4	151.0	74.4	128.6	-413.9	1478.7	-534.99	0.323e+06	4.912e+06	-3.684e+06
574	ok 0.04	1.0	1.88e-02	74.4	105.1	74.4	105.1	-805.2	1585.7	169.66	0.667e+06	4.096e+06	-3.633e+06
575	ok 0.03	0.9	2.23e-02	74.4	74.4	74.4	74.4	-695.0	1196.4	926.53	0.989e+06	2.652e+06	-3.404e+06
576	ok 0.03	0.5	2.48e-02	74.4	74.4	74.4	74.4	-153.2	349.9	1391.71	0.405e+06	7.558e+05	-3.224e+06
577	ok 0.03	0.9	2.70e-02	74.4	74.4	74.4	74.4	192.8	-720.4	1340.6	-1.697e+06	-1.414e+06	-3.283e+06





557	ok Av	22.59	0.46	0.04	25.6	2.1	5222.6	436.0
558	ok Av	22.40	0.44	0.18	24.2	9.9	4952.0	2013.9
559	ok Av	21.52	0.36	0.29	19.9	16.1	4056.0	3285.8
560	ok Av	20.03	0.24	0.36	13.2	19.8	2686.1	4036.3
561	ok Av	18.07	0.09	0.36	5.3	20.3	1074.7	4138.7
562	ok Av	15.85	0.08	0.32	4.2	17.5	859.9	3576.3
563	ok Av	13.71	0.18	0.22	10.0	12.0	2035.0	2443.6
564	ok Av	12.10	0.23	0.08	13.0	4.6	2649.7	930.3
565	ok Av	11.84	0.23	0.07	12.9	3.7	2642.5	748.7
566	ok Av	13.28	0.18	0.20	10.1	11.2	2059.6	2290.7
567	ok Av	15.14	0.08	0.30	4.5	16.6	922.7	3388.6
568	ok Av	16.96	0.09	0.34	5.0	19.0	1024.2	3886.0
569	ok Av	18.68	0.22	0.33	12.4	18.4	2531.0	3748.4
570	ok Av	19.98	0.33	0.27	18.6	14.8	3796.5	3013.8
571	ok Av	27.35	0.47	0.36	25.8	19.8	5275.3	4038.9
572	ok Av	25.44	0.32	0.44	17.7	24.5	3617.1	5001.0
573	ok Av	23.08	0.14	0.46	8.0	25.7	1642.3	5245.1
574	ok Av	21.26	0.09	0.42	5.1	23.6	1039.6	4821.3
575	ok Av	18.00	0.24	0.28	13.2	15.6	2697.8	3187.0
576	ok Av	15.73	0.31	0.09	17.1	5.0	3502.1	1028.0
577	ok Av	16.00	0.31	0.11	17.0	6.3	3480.6	1290.5
578	ok Av	18.27	0.23	0.29	12.8	16.3	2621.4	3331.1
579	ok Av	21.36	0.09	0.43	5.0	23.7	1022.7	4849.1
580	ok Av	24.55	0.14	0.49	7.9	27.4	1617.2	5598.3
581	ok Av	27.36	0.33	0.48	18.5	26.7	3786.0	5453.6
582	ok Av	29.48	0.50	0.39	27.5	21.7	5622.6	4438.6
583	ok Av	30.73	0.60	0.24	33.4	13.3	6816.6	2724.2
584	ok Av	31.00	0.63	0.05	35.1	2.9	7166.8	601.2
585	ok Av	30.82	0.60	0.24	33.5	13.3	6843.4	2716.0
586	ok Av	29.65	0.50	0.39	27.8	21.7	5675.8	4437.6
587	ok Av	27.57	0.34	0.48	18.9	26.8	3865.3	5464.6
588	ok Av	24.75	0.15	0.50	8.4	27.5	1722.2	5626.1
589	ok Av	21.47	0.08	0.43	4.4	24.0	893.2	4900.0
590	ok Av	18.16	0.22	0.30	12.1	16.7	2463.9	3416.1
591	ok Av	15.49	0.29	0.13	16.1	7.0	3295.4	1433.7
592	ok Av	14.69	0.29	0.07	16.2	3.8	3318.4	777.9
593	ok Av	16.49	0.23	0.25	12.8	13.6	2622.0	2784.4
594	ok Av	19.32	0.10	0.38	5.8	21.2	1176.8	4324.6
595	ok Av	22.38	0.11	0.45	6.2	25.1	1262.9	5136.5
596	ok Av	25.12	0.29	0.45	16.3	24.9	3333.5	5085.4
597	ok Av	27.22	0.45	0.37	25.0	20.5	5105.3	4191.8
598	ok Av	28.45	0.55	0.23	30.7	12.8	6271.1	2615.1
599	ok Av	28.72	0.58	0.06	32.5	3.1	6633.4	639.2
600	ok Av	28.48	0.56	0.22	31.1	12.0	6349.5	2442.8

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



31.00 0.63 0.50 35.09 27.54 7166.83 5626.07

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
18	405.00	9	1	Singolo elemento

Nodo	Statox/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
1	ok 0.02	0.6	2.09e-02	126.0	126.0	126.0	126.0	-407.3	-1330.6	1164.4-8.196e+06-4.365e+06-4.981e+06			
2	ok 0.02	0.8	2.52e-02	126.0	126.0	126.0	126.0	-634.5	-2054.4	1051.3-1.272e+07-6.843e+06-4.496e+06			
3	ok 0.02	0.9	2.90e-02	126.0	126.0	126.0	126.0	-839.4	-2696.7	876.2-1.670e+07-9.025e+06-3.794e+06			
4	ok 0.02	1.0	3.27e-02	128.4	126.0	128.4	126.0	-1023.8	-3221.2	649.7-1.997e+07-1.083e+07-2.906e+06			
5	ok 0.02	1.0	3.56e-02	138.4	126.0	131.3	126.0	-1393.3	-3503.4	576.3-2.195e+07-1.228e+07-2.252e+06			
6	ok 0.02	1.0	3.74e-02	144.0	126.0	127.8	126.0	-1434.6	-3758.3	357.3-2.358e+07-1.313e+07-1.213e+06			
7	ok 0.02	1.0	3.79e-02	145.4	126.0	126.2	126.0	-1415.3	-3868.2	-148.6-2.421e+07-1.343e+07 3.742e+05			
8	ok 0.02	1.0	3.75e-02	144.1	126.0	128.5	126.0	-1458.5	-3760.4	-392.7-2.359e+07-1.323e+07 1.482e+06			
9	ok 0.02	1.0	3.58e-02	138.9	126.0	132.4	126.0	-1439.4	-3506.9	-607.5-2.197e+07-1.247e+07 2.510e+06			
10	ok 0.02	1.0	3.30e-02	129.1	126.0	129.1	126.0	-1087.8	-3226.1	-673.9-2.000e+07-1.111e+07 3.151e+06			
11	ok 0.02	0.9	2.94e-02	126.0	126.0	126.0	126.0	-920.5	-2706.5	-893.4-1.675e+07-9.403e+06 4.019e+06			
12	ok 0.02	0.8	2.56e-02	126.0	126.0	126.0	126.0	-730.9	-2070.9	-1062.1-1.281e+07-7.328e+06 4.696e+06			
13	ok 0.02	0.6	2.14e-02	126.0	126.0	126.0	126.0	-519.2	-1355.3	-1170.2-8.347e+06-4.964e+06 5.151e+06			
14	ok 0.02	0.5	1.70e-02	126.0	126.0	126.0	126.0	-286.2	-599.3	-1215.6-3.569e+06-2.405e+06 5.372e+06			
15	ok 0.02	0.3	1.24e-02	126.0	126.0	126.0	126.0	-270.5	117.4	-1212.72.003e+06 3.728e+05 5.355e+06			
16	ok 0.02	0.5	7.81e-03	126.0	126.0	126.0	126.0	-34.3	875.3	-1158.66.785e+06 2.946e+06 5.096e+06			
17	ok 0.02	0.7	3.49e-03	126.0	126.0	126.0	126.0	184.6	1593.7	-1041.61.126e+07 5.341e+06 4.604e+06			
18	ok 0.02	0.9	1.53e-03	126.0	126.0	126.0	126.0	385.4	2232.3	-863.71.521e+07 7.463e+06 3.893e+06			
19	ok 0.03	1.0	0.0126.0	151.2	126.0	129.3	941.5	3033.0	-564.12.047e+071.068e+07 2.337e+06				
20	ok 0.03	1.0	0.0126.0	161.3	126.0	127.9	983.3	3290.0	-346.22.213e+071.153e+07 1.289e+06				
21	ok 0.03	1.0	0.0126.0	164.0	126.0	126.3	965.4	3404.3	162.02.281e+071.186e+07-3.062e+05				
22	ok 0.03	1.0	0.0126.0	163.0	126.0	128.3	1012.4	3304.2	404.52.227e+071.171e+07-1.420e+06				
23	ok 0.03	1.0	0.0126.0	154.7	126.0	130.1	998.8	3063.6	617.82.076e+071.103e+07-2.460e+06				
24	ok 0.02	1.0	4.99e-06	126.0	138.4	126.0	131.0	654.9	2805.3	684.61.892e+07 9.806e+06-3.111e+06			
25	ok 0.02	0.9	1.53e-03	126.0	126.0	126.0	126.0	501.4	2293.0	905.11.589e+07 8.295e+06-3.934e+06			
26	ok 0.02	0.7	3.32e-03	126.0	126.0	126.0	126.0	322.8	1652.4	1069.81.243e+07 6.553e+06-4.403e+06			
27	ok 0.02	0.5	6.86e-03	126.0	126.0	126.0	126.0	109.5	926.2	1172.77.366e+06 3.949e+06-5.017e+06			
28	ok 0.02	0.3	1.15e-02	126.0	126.0	126.0	126.0	-132.9	159.5	1217.22.357e+06 1.232e+06-5.246e+06			
29	ok 0.02	0.5	1.62e-02	126.0	126.0	126.0	126.0	-157.7	-565.4	1214.0-3.337e+06-1.682e+06-5.237e+06			
30	ok 0.02	5.47e-02	3.28e-03	126.0	126.0	126.0	126.0	-342.4	-296.0	-9.9-1.016e+06-8.741e+05 -6992.1			
571	ok 0.02	1.0	0.0126.0	131.5	126.0	131.5	1938.8	4184.3	717.81.401e+079.744e+06 6.902e+05				
572	ok 0.02	0.9	0.0126.0	126.0	126.0	126.0	1790.1	3708.4	926.41.361e+077.643e+06 1.696e+05				
573	ok 0.02	0.7	0.0126.0	135.7	126.0	135.7	1550.2	3102.0	1113.81.248e+075.420e+06-8.827e+05				
574	ok 0.02	0.6	2.10e-03	126.0	126.0	126.0	126.0	1209.1	2334.3	1273.21.021e+07 3.120e+06-2.368e+06			
575	ok 0.02	0.4	5.88e-03	126.0	126.0	126.0	126.0	765.0	1407.4	1387.96.726e+06 1.546e+06-3.914e+06			





14ok Av	32.41	0.66	0.17	36.8	9.7	1.290e+04	3392.0	
15ok Av	31.43	0.64	0.13	35.7	7.2	1.251e+04	2535.6	
16ok Av	35.90	0.73	0.38	40.8	21.4	1.428e+04	7483.7	
17ok Av	39.76	0.81	0.60	45.0	33.3	1.577e+04	1.166e+04	
18ok Av	42.60	0.86	0.74	47.7	40.9	1.671e+04	1.434e+04	
19ok Av	44.21	0.84	0.71	46.8	39.2	1.639e+04	1.375e+04	
20ok Av	42.93	0.78	0.54	43.4	30.2	1.521e+04	1.058e+04	
21ok Av	40.33	0.70	0.44	38.7	24.5	1.358e+04	8568.1	
22ok Av	42.26	0.78	0.52	43.3	28.9	1.516e+04	1.011e+04	
23ok Av	43.42	0.84	0.68	46.5	37.7	1.629e+04	1.319e+04	
24ok Av	42.98	0.86	0.74	47.6	41.0	1.669e+04	1.438e+04	
25ok Av	40.47	0.83	0.68	45.8	37.6	1.606e+04	1.316e+04	
26ok Av	49.15	1.00	0.80	56.1	44.2	1.954e+04	1.548e+04	
27ok Av	39.34	0.80	0.42	44.7	23.5	1.566e+04	8231.1	
28ok Av	33.15	0.68	0.14	37.6	7.6	1.319e+04	2650.4	
29ok Av	33.55	0.69	0.18	38.1	9.8	1.335e+04	3435.6	
30ok Av	37.73	0.77	0.09	42.5	5.3	1.490e+04	1843.7	
571	ok Av	20.10	0.31	0.37	17.1	20.4	5987.0	7139.2
572	ok Av	19.95	0.22	0.40	12.3	22.4	4303.4	7842.8
573	ok Av	19.57	0.11	0.39	6.1	21.9	2143.4	7685.5
574	ok Av	20.17	0.25	0.33	13.8	18.3	4844.3	6400.9
575	ok Av	17.72	0.27	0.24	15.1	13.3	5287.8	4668.0
576	ok Av	15.54	0.31	0.08	17.1	4.3	5995.4	1519.2
577	ok Av	15.69	0.31	0.09	17.2	4.8	6011.6	1696.7
578	ok Av	17.62	0.28	0.23	15.6	12.6	5460.5	4399.8
579	ok Av	19.35	0.20	0.34	11.1	19.0	3886.1	6649.0
580	ok Av	20.67	0.09	0.42	5.1	23.1	1800.4	8080.9
581	ok Av	21.45	0.22	0.43	12.4	24.1	4353.6	8458.3
582	ok Av	21.61	0.32	0.40	17.9	22.0	6286.5	7717.3
583	ok Av	21.13	0.37	0.31	20.8	17.1	7274.0	5983.0
584	ok Av	20.05	0.37	0.18	20.4	10.1	7152.7	3550.4
585	ok Av	21.18	0.37	0.31	20.8	17.1	7298.0	5976.6
586	ok Av	21.68	0.33	0.40	18.1	22.0	6342.8	7715.4
587	ok Av	21.50	0.23	0.43	12.7	24.2	4447.6	8462.7
588	ok Av	20.65	0.10	0.42	5.5	23.1	1938.9	8096.1
589	ok Av	19.20	0.19	0.34	10.6	19.1	3706.6	6684.4
590	ok Av	17.28	0.27	0.23	14.9	12.8	5223.0	4475.2
591	ok Av	15.09	0.29	0.10	16.3	5.3	5712.2	1852.0
592	ok Av	14.49	0.29	0.06	16.1	3.4	5640.2	1198.8
593	ok Av	16.40	0.27	0.20	15.1	10.9	5287.4	3825.4
594	ok Av	18.14	0.20	0.31	11.1	17.3	3902.6	6072.8
595	ok Av	19.47	0.09	0.39	5.0	21.6	1738.4	7551.8
596	ok Av	20.27	0.20	0.41	11.0	22.9	3870.6	8025.1
597	ok Av	20.45	0.30	0.38	16.4	21.2	5749.7	7412.1
598	ok Av	19.99	0.35	0.30	19.2	16.6	6724.0	5830.4
599	ok Av	18.92	0.34	0.18	19.0	10.2	6641.5	3566.3



600	ok Av	19.66	0.35	0.28	19.5	15.8	6827.2	5536.3
601	ok Av	44.12	0.87	0.77	48.3	42.9	1.693e+04	1.504e+04
<b>Nodo</b>		<b>Max tau</b>	<b>Ver V pr</b>	<b>Ver V sec</b>	<b>Af V pr</b>	<b>Af V sec</b>	<b>V pr</b>	<b>V sec</b>
		49.15	1.00	0.81	56.10	44.96	1.954e+04	1.575e+04



## 14. STATI LIMITE D' ESERCIZIO

### 14.1. 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:

<b>rRfck</b>	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
<b>rRfyk</b>	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
<b>rPfck</b>	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
<b>wR</b>	apertura caratteristica delle fessure in combinazioni rare [mm]
<b>wF</b>	apertura caratteristica delle fessure in combinazioni frequenti [mm]
<b>wP</b>	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]
<b>dR</b>	massima deformazione in combinazioni rare
<b>dF</b>	massima deformazione in combinazioni frequenti
<b>dP</b>	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	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>	per sezioni significative
travi	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>	per sezioni significative
	<b>wR</b>	<b>wF</b>	<b>wP</b>	per sezioni significative
	<b>dR</b>	<b>dF</b>	<b>dP</b>	massimi in campata
setti e gusci	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>	massimi nei nodi dell'elemento
	<b>wR</b>	<b>wF</b>	<b>wP</b>	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).



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Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
				mm	mm	mm		
10.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
20.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
30.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
40.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
50.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
60.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
70.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
80.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
90.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
100.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
110.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
120.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
130.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
140.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
150.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
160.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
170.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
180.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
190.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
200.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
210.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
220.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
230.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
240.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
250.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
260.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
270.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
280.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
290.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
300.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
310.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
320.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
330.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
340.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
350.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
360.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
370.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
380.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
390.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
400.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
410.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
420.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
430.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	



440.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
450.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
460.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
470.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
480.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
490.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
500.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
510.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
520.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
530.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
540.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
550.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
560.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
570.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
580.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
590.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
600.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
610.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
620.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
630.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
640.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
650.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
660.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
670.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
680.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
690.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
700.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
710.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
720.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
730.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
740.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
750.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
760.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
770.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
780.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
790.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
800.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
810.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
820.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
830.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
840.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
850.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
860.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
870.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
880.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
890.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0



900.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
910.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
920.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
930.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
940.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
950.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
960.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
970.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
980.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
990.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0	
100	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
101	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
102	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
103	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
104	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
105	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
106	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
107	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
108	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
109	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
110	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
111	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
112	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
113	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
114	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
115	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
116	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
117	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
118	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
119	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
120	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
121	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
122	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
123	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
124	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
125	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
126	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
127	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
128	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
129	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
130	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
131	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
132	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
133	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
134	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
135	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0



136	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
137	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
138	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
139	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
140	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
141	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
142	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
143	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
144	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
145	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
146	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
147	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
148	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
149	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
150	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
151	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
152	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
153	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
154	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
155	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
156	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
157	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
158	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
159	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
160	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
161	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
162	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
163	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
164	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
165	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
166	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
167	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
168	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
169	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
170	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
171	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
172	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
173	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
174	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
175	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
176	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
177	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
178	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
179	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
180	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
181	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0



182	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
183	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
184	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
185	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
186	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
187	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
188	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
189	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
190	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
191	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
192	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
193	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
194	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
195	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
196	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
197	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
198	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
199	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
200	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
201	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
202	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
203	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
204	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
205	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
206	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
207	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
208	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
209	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
210	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
211	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
212	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
213	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
214	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
215	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
216	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
217	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
218	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
219	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
220	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
221	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
222	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
223	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
224	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
225	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
226	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
227	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0



228	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
229	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
230	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
231	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
232	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
233	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
234	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
235	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
236	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
237	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
238	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
239	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
240	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
241	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
242	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
243	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
244	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
245	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
246	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
247	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
248	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
249	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
250	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
251	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
252	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
253	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
254	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
255	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
256	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
257	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
258	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
259	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
260	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
261	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
262	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
263	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
264	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
265	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
266	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
267	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
268	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
269	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
270	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
271	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
272	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
273	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0





274	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
275	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
276	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
277	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
278	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
279	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
280	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
281	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
282	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
283	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
284	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
285	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
286	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
287	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
288	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
289	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
290	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
291	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
292	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
293	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
294	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
295	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
296	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
297	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
298	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
299	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
300	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
301	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
302	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
303	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
304	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
305	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
306	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
307	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
308	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
309	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
310	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
311	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
312	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
313	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
314	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
315	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
316	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
317	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
318	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
319	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0



320	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
321	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
322	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
323	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
324	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
325	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
326	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
327	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
328	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
329	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
330	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
331	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
332	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
333	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
334	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
335	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
336	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
337	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
338	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
339	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
340	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
341	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
342	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
343	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
344	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
345	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
346	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
347	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
348	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
349	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
350	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
351	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
352	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
353	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
354	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
355	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
356	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
357	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
358	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
359	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
360	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
361	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
362	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
363	0.0	0.0	0.0	0,0,0	0.0	0.23	0.0	0,2,0
364	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
365	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0



366	0.0	0.0	0.0	0,0,0	0.0	0.20	0.0	0,2,0
367	0.0	0.0	0.0	0,0,0	0.0	0.20	0.0	0,2,0
368	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
369	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
370	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
371	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
372	0.0	0.0	0.0	0,0,0	0.0	0.21	0.0	0,2,0
373	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
374	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
375	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
376	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
377	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
378	0.0	0.0	0.0	0,0,0	0.0	0.23	0.0	0,2,0
379	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
380	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
381	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
382	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
383	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
384	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
385	0.0	0.0	0.0	0,0,0	0.0	0.23	0.0	0,2,0
386	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
387	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
388	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
389	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
390	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
391	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
392	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
393	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
394	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
395	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
396	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
397	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
398	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
399	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
400	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
401	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
402	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
403	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
404	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
405	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
406	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
407	0.0	0.0	0.0	0,0,0	0.0	0.24	0.0	0,2,0
408	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
409	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
410	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
411	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0



412	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
413	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
414	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
415	0.0	0.0	0.0	0,0,0	0.0	0.21	0.0	0,2,0
416	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
417	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
418	0.0	0.0	0.0	0,0,0	0.0	0.20	0.0	0,2,0
419	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
420	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
421	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
422	0.0	0.0	0.0	0,0,0	0.0	0.24	0.0	0,2,0
423	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
424	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
425	0.0	0.0	0.0	0,0,0	0.0	0.24	0.0	0,2,0
426	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
427	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
428	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
429	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
430	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
431	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
432	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
433	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
434	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
435	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
436	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
437	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
438	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
439	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
440	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
441	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
442	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
443	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
444	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
445	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
446	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
447	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
448	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
449	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
450	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
451	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
452	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
453	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
454	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
455	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
456	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
457	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0



458	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
459	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
460	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
461	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
462	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
463	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
464	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
465	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
466	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
467	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
468	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
469	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
470	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
471	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
472	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
473	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
474	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
475	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
476	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
477	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
478	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
479	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
480	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
481	0.0	0.0	0.0	0,0,0	0.0	0.21	0.0	0,2,0
482	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
483	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
484	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
485	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
486	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
487	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
488	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
489	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
490	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
491	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
492	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
493	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
494	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
495	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
496	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
497	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
498	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
499	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
500	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
501	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
502	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
503	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0



504	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
505	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
506	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
507	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
508	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
509	0.0	0.0	0.0	0,0,0	0.0	0.33	0.0	0,2,0
510	0.0	0.0	0.0	0,0,0	0.0	0.32	0.0	0,2,0
511	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
512	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
513	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
514	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
515	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
516	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
517	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
518	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
519	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
520	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
521	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
522	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
523	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
524	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
525	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
526	0.0	0.0	0.0	0,0,0	0.0	0.31	0.0	0,2,0
527	0.0	0.0	0.0	0,0,0	0.0	0.30	0.0	0,2,0
528	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
529	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
530	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
531	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
532	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
533	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
534	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
535	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
536	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
537	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
538	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
539	0.0	0.0	0.0	0,0,0	0.0	0.29	0.0	0,2,0
540	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
541	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
542	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
543	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
544	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
545	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
546	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
547	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
548	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
549	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0



550	0.0	0.0	0.0	0,0,0	0.0	0.19	0.0	0,2,0
551	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
552	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
553	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
554	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
555	0.0	0.0	0.0	0,0,0	0.0	0.23	0.0	0,2,0
556	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
557	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
558	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
559	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
560	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
561	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
562	0.0	0.0	0.0	0,0,0	0.0	0.24	0.0	0,2,0
563	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
564	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
565	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
566	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
567	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
568	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
569	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
570	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
571	0.0	0.0	0.0	0,0,0	0.0	0.21	0.0	0,2,0
572	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
573	0.0	0.0	0.0	0,0,0	0.0	0.28	0.0	0,2,0
574	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
575	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
576	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
577	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
578	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
579	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
580	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
581	0.0	0.0	0.0	0,0,0	0.0	0.27	0.0	0,2,0
582	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
583	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
584	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
585	0.0	0.0	0.0	0,0,0	0.0	0.19	0.0	0,2,0
586	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
587	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
588	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
589	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
590	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
591	0.0	0.0	0.0	0,0,0	0.0	0.25	0.0	0,2,0
592	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
593	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
594	0.0	0.0	0.0	0,0,0	0.0	0.26	0.0	0,2,0
595	0.0	0.0	0.0	0,0,0	0.0	0.23	0.0	0,2,0



596	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
597	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
598	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
599	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
600	0.0	0.0	0.0	0,0,0	0.0	0.22	0.0	0,2,0
<b>Guscio</b>	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>		<b>wR</b>	<b>wF</b>	<b>wP</b>	
0.0	0.0	0.0		0.0	0.33	0.0		

## 15. Conclusioni

Considerato quanto sopra la struttura è idonea allo scopo per cui è stata progettata. Si precisa ancora una volta che il calcolo ha carattere preliminare, dovrà essere verificato in fase esecutiva considerando i carichi effettivamente trasmessi dalla sovrastruttura. Analogamente si rimandano le verifiche geotecniche alla fase esecutiva.





**ALLEGATO A - VERIFICHE GEOTECNICHE PRELIMINARI**

## PREMESSA

La finalità della presente relazione è quella di definire il comportamento meccanico del volume di terreno influenzato direttamente o indirettamente dalla costruzione di un manufatto e che a sua volta influenza il comportamento strutturale del manufatto stesso. In particolare, si analizzerà il comportamento del terreno sotto l'azione delle fondazioni degli Aerogeneratori previsti per il Parco Eolico sito nel comune di Carbonia (SU).

I risultati ottenuti nella presente relazione si riferiscono ad un modello geotecnico preliminare del terreno, pertanto le verifiche effettuate andranno ripetute a valle di prove geologiche in situ.

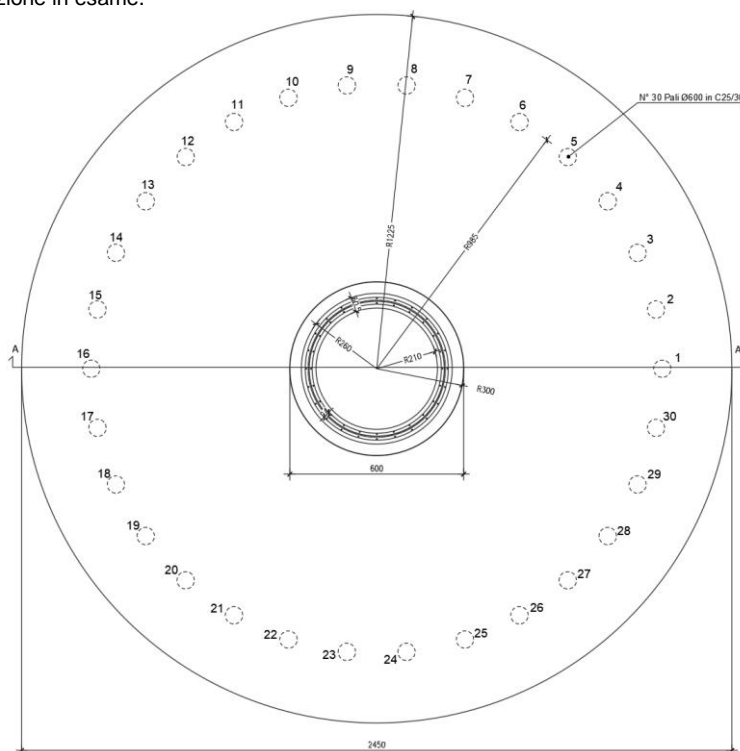
## NORMATIVE DI RIFERIMENTO

In quanto di seguito riportato viene fatto esplicito riferimento alle seguenti Normative:

- **LEGGE n° 64 del 02/02/1974.** "Provvedimenti per le costruzioni, con particolari prescrizioni per le zone sismiche.";
- **D.M. LL.PP. del 11/03/1988.** "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.";
- **D.M. LL.PP. del 16/01/1996.** "Norme tecniche per le costruzioni in zone sismiche.";
- **Circolare Ministeriale LL.PP. n° 65/AA.GG. del 10/04/1997.** "Istruzioni per l'applicazione delle "Norme Tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/1996.";
- **Eurocodice 1 - Parte 1** - "Basi di calcolo ed azioni sulle strutture - Basi di calcolo -.";
- **Eurocodice 7 - Parte 1** - "Progettazione geotecnica - Regole generali -.";
- **Eurocodice 8 - Parte 5** - "Indicazioni progettuali per la resistenza sismica delle strutture - Fondazioni, strutture di contenimento ed aspetti geotecnici -.";
- **D.M. 17/01/2018 - NUOVE NORME TECNICHE PER LE COSTRUZIONI**
- **Circolare n. 7 del 21/01/2019**

## CARATTERISTICHE GEOMETRICHE

La fondazione oggetto delle presenti verifiche è costituita da un plinto circolare in cemento armato di diametro 24,50 metri; lo spessore della fondazione è variabile da un minimo di 1,30 ad un massimo di 4,00m in corrispondenza del piedistallo dell'Aerogeneratore. Si riportano di seguito i dettagli geometrici della fondazione in esame.



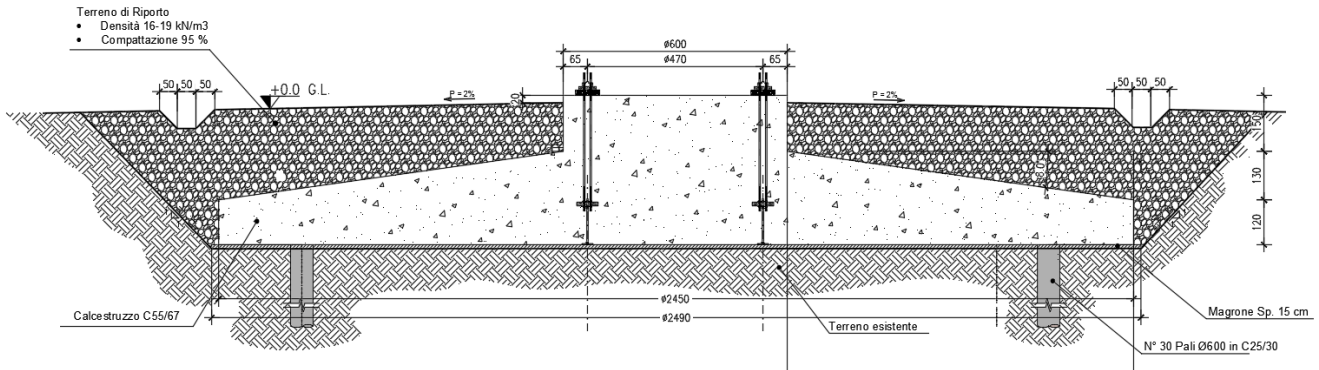


Figura 2: Tipico fondazioni aerogeneratore. Estratto elaborato

Figura 1: Tipico fondazioni aerogeneratore. Estratto elaborato

GRE.EEC.D.25.IT.W.15012.00.051.00\_Tipico Fondazioni Aerogeneratori.

## MATERIALI

I materiali previsti per la costruzione della presente fondazione in accordo con le verifiche strutturali sono:

- Calcestruzzo C55/67 utilizzato per la costruzione del plinto di fondazione;
- Calcestruzzo C25/30 utilizzato per la costruzione dei pali di fondazione;
- Calcestruzzo C12/15 utilizzato per i getti di sottofondazione.
- Acciaio B450C.

## CARATTERIZZAZIONE GEOTECNICA DEI TERRENI DI FONDAZIONE

Il modello geotecnico del terreno in esame è stato ricostruito sulla base del modello geologico di riferimento desunto dalla cartografia tecnica disponibile e dai dati di letteratura scientifica, nonché da esperienze su contesti geologici e geotecnici simili. Di seguito si riporta il modello utilizzato per le verifiche geotecniche preliminari.

Descrizione	$\phi$ (°)	C (kPa)	$c_u$ (kPa)	$\gamma$ (daN/cm <sup>3</sup> )	$\gamma_{sat}$ (daN/cm <sup>3</sup> )	$E_{edo}$ (daN/cm <sup>2</sup> )	$E_{EL}$ (daN/cm <sup>2</sup> )	$\nu$	Dr %
Conglomerati-ghiaie	32-38	0	0	1960	2060	32000	20000	0,35	70

## DETERMINAZIONE DELLA PORTANZA VERTICALE DI FONDAZIONI PROFONDE

Per la determinazione della portanza verticale di fondazioni profonde si fa riferimento a due contributi: la "portanza di punta" e la "portanza per attrito laterale". Queste due componenti in genere sono calcolate in maniera autonoma dato che risulta molto difficoltoso, tranne che in poche situazioni, stabilire quanta parte del carico è assorbita dall'attrito laterale e quanta dalla resistenza alla punta. Nel seguito, ai fini del calcolo della portanza verticale, si assumeranno le seguenti espressioni generali valide per il caso di palo soggetto a compressione e per il caso di palo soggetto a trazione (nel calcolo della portanza verticale è possibile tenere in conto tutti o solo uno dei contributi su definiti):

$$Q_C = \frac{Q_P}{\eta_P} + \frac{Q_L}{\eta_L} - W_{ATT.NEG.} - W_P \quad (\text{caso di palo in compressione}) \quad Q_T$$

$$= \frac{Q_L}{\eta_L} + W_P \quad (\text{caso di palo in trazione})$$

dove i simboli su riportati hanno il seguente significato:

- $Q_C$  resistenza a compressione del palo
- $Q_T$  resistenza a trazione del palo
- $Q_P$  carico limite verticale alla punta del palo
- $Q_L$  carico limite verticale lungo la superficie laterale del palo
- $W_{ATT.NEG.}$  attrito negativo agente sul palo
- $W_P$  peso totale del palo
- $\eta_P$  coefficiente di sicurezza per carico limite verticale alla punta del palo
- $\eta_L$  coefficiente di sicurezza per carico limite verticale lungo la superficie laterale del palo

I valori del carico limite verticale alla punta del palo " $Q_p$ " e del carico limite verticale lungo la superficie laterale del palo " $Q_L$ " sono determinati con le note "formule statiche". Queste esprimono i valori di cui sopra in funzione della geometria del palo, delle caratteristiche geotecniche del terreno in cui è immerso, della modalità esecutiva e dell'interfaccia palo-terreno.

Di seguito si illustrano le metodologie con le quali saranno determinati i valori prima citati; è necessario tenere presente che tali metodi sono riferiti al calcolo del "singolo palo" e per estendere tale modalità computazione al caso di "pali in gruppo" si farà ricorso ai "coefficienti d'efficienza", in questo modo si potrà tenere in debito conto l'interferenza reciproca che i pali esercitano.

### CARICO LIMITE VERTICALE ALLA PUNTA DEL PALO

Il valore del carico limite verticale alla punta del palo, indipendentemente dal metodo utilizzato per la sua determinazione, è condizionato dalla modalità esecutiva. Esso varia notevolmente a seconda che il palo sia del tipo "infisso" o "trivellato" poiché le caratteristiche fisico-meccaniche del terreno circostante il palo variano in seguito alle operazioni d'installazione. Di conseguenza, per tenere conto della modalità esecutiva nel calcolo dei coefficienti di portanza, si propone di modificare il valore dell'angolo di resistenza a taglio secondo quanto suggerito da Kishida (1967):

$$\phi_{\text{cor}} = \frac{\phi + 40}{2} \quad (\text{per pali infissi}) \quad \phi_{\text{cor}} = \phi - 3^\circ \quad (\text{per pali trivellati})$$

Con la correzione di cui sopra si determineranno i fattori adimensionali di portanza che sono presenti nella relazione per la determinazione del carico limite verticale alla punta che assume la seguente espressione:

$$Q_p = A_p \cdot (q_p \cdot N_q^* + c \cdot N_c^*)$$

dove i simboli su riportati hanno il seguente significato:

- $A_p$  superficie portante efficace della punta del palo
- $q_p$  pressione del terreno presente alla punta del palo
- $c$  coesione del terreno alla punta del palo (nel caso di condizione non drenata  $c = c_u$ )
- $N_q, N_c$  fattori adimensionali di portanza funzione dell'angolo d'attrito interno  $\phi_{\text{cor}}$  del terreno già corretti

In letteratura esistono diverse formulazioni per il calcolo dei fattori adimensionali di portanza, di seguito si riportano quelle che sono state implementate:

#### Formulazione di Meyerhof per base poggiate su terreni sciolti (1951)

- se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q = \text{tg}^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \cdot e^{\pi \cdot \text{tg}(\phi)} \quad N_c = (N_q - 1) \cdot \text{ctg}(\phi)$$

$$s_q = 1 + 0.1 \cdot \text{tg}^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \quad s_c = 1 + 0.2 \cdot \text{tg}^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \quad (\text{fattori di forma})$$

$$d_q = 1 + 0.1 \cdot \frac{L}{D} \cdot \sqrt{\text{tg}^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right)} \quad d_c = 1 + 0.2 \cdot \frac{L}{D} \cdot \sqrt{\text{tg}^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right)} \quad (\text{fattori d'approfondimento})$$

$$N_q^* = N_q \cdot s_q \cdot d_q \quad N_c^* = N_c \cdot s_c \cdot d_c$$

- se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q = 1.00 \quad N_c = \pi + 2$$

$$s_q = 1.00 \quad s_c = 1.20 \quad (\text{fattori di forma})$$

$$d_q = 1.00 \quad d_c = 1 + 0.2 \cdot \frac{L}{D} \quad (\text{fattori d'approfondimento})$$

$$N_q^* = N_q \cdot s_q \cdot d_q \quad N_c^* = N_c \cdot s_c \cdot d_c$$

#### Formulazione di Hansen per base poggiate su terreni sciolti (1970)



se  $\varphi \neq 0$  (condizione drenata) si ha:

$$N_q = \operatorname{tg}^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \cdot e^{\pi \cdot \operatorname{tg}(\phi)} \quad N_c = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

$$s_q = 1 + \operatorname{tg}(\phi) \quad s_c = 1 + \frac{N_q}{N_c} \quad (\text{fattori di forma})$$

$$d_q = 1 + 2 \cdot \operatorname{tg}(\phi) \cdot (1 - \operatorname{sen}(\phi))^2 \cdot \theta \quad d_c = 1 + 0.4 \cdot \theta \quad (\text{fattori d'approfondimento})$$

$$\text{dove: se } \frac{L}{D} \leq 1 \Rightarrow \theta = \frac{L}{D}, \text{ se } \frac{L}{D} > 1 \Rightarrow \theta = \operatorname{arctg}\left(\frac{L}{D}\right)$$

$$N_q^* = N_q \cdot s_q \cdot d_q \quad N_c^* = N_c \cdot s_c \cdot d_c$$

se  $\varphi = 0$  (condizione non drenata) si ha:

$$N_q = 1.00 \quad N_c = \pi + 2$$

$$s_q = 1.00 \quad s_c = 1.20 \quad (\text{fattori di forma})$$

$$d_q = 1.00 \quad d_c = 1 + 0.4 \cdot \theta \quad (\text{fattori d'approfondimento})$$

$$N_q^* = N_q \cdot s_q \cdot d_q \quad N_c^* = N_c \cdot s_c \cdot d_c$$

#### Formulazione di Zeevaert per base poggiate su terreni sciolti (1972)

se  $\varphi \neq 0$  (condizione drenata) si ha:

$$N_q^* = \frac{\cos^2(\phi)}{2 \cdot \cos^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right)} \cdot e^{\left(\frac{3 \cdot \pi}{2} + \phi\right) \cdot \operatorname{tg}(\phi)} \quad N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

se  $\varphi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00 \quad N_c^* = 9.00$$

#### Formulazione di Berezantzev per base poggiate su terreni sciolti (1970)

Berezantzev fa riferimento ad una superficie di scorrimento "alla Terzaghi" che si arresta sul piano della punta del palo. Inoltre considera il cilindro di terreno coassiale al palo (avente diametro pari all'estensione in sezione della superficie di scorrimento) in parte sostenuto da tensioni tangenziali dal rimanente terreno presente lungo la superficie laterale del cilindro. Conseguentemente il valore della pressione presente alla punta del palo è inferiore alla corrispondente pressione litostatica ed è influenzata dal rapporto tra la profondità alla quale è posta la punta "L" del palo e il diametro "D" dello stesso. Quindi il valore di  $N_q$  è influenzato da questo effetto "Silo". I valori che l'autore propone sono:

se  $\varphi = 0$  (condizione drenata) si ha:

Valori di  $N_q^*$  per pali di diametro fino a 80.0 cm.

L/D	8°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	40°	42°	44°	46°	48°	50°
4	1.07	2.18	3.15	4.72	7.15	10.73	15.85	22.95	32.62	45.56	62.69	85.18	114.53	152.71	202.32	266.82	350.86	460.79	605.36
12	1.04	1.77	2.46	3.64	5.52	8.42	12.71	18.85	27.44	39.21	55.07	76.20	104.13	140.81	188.86	251.72	334.05	442.17	584.82
20	1.03	1.63	2.20	3.20	4.82	7.38	11.22	16.82	24.76	35.79	50.83	71.06	98.01	133.65	180.59	242.29	323.39	430.21	571.48
28	1.03	1.54	2.05	2.93	4.40	6.72	10.26	15.48	22.96	33.43	47.84	67.37	93.54	128.35	174.39	235.13	315.21	420.95	561.08
36	1.02	1.49	1.94	2.75	4.10	6.26	9.57	14.49	21.60	31.64	45.53	64.48	90.00	124.10	169.36	229.27	308.46	413.26	552.38
50	1.02	1.42	1.82	2.53	3.74	5.68	8.70	13.23	19.84	29.27	42.45	60.56	85.14	118.18	162.30	220.95	298.80	402.16	539.74
75	1.02	1.35	1.69	2.30	3.33	5.02	7.69	11.74	17.73	26.37	38.58	55.55	78.82	110.38	152.84	209.67	285.53	386.74	522.01
100	1.01	1.31	1.61	2.14	3.07	4.60	7.02	10.74	16.28	24.34	35.84	51.95	74.19	104.56	145.68	201.02	275.23	374.64	507.95
200	1.01	1.22	1.44	1.84	2.54	3.71	5.60	8.56	13.05	19.73	29.43	43.30	62.82	89.95	127.29	178.30	247.63	341.59	468.90
500	1.01	1.14	1.29	1.55	2.02	2.82	4.14	6.24	9.50	14.45	21.83	32.64	48.25	70.49	101.85	145.69	206.57	290.75	406.87

$$N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$



se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00 \quad N_c^* = 9.00$$

**Formulazione di Vesic per base poggiate su terreni sciolti (1975)**

se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q^* = \frac{3}{3 - \sin(\phi)} \cdot \operatorname{tg}^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right) \cdot I_{rr}^{\frac{4 \cdot \sin(\phi)}{3 \cdot (1 + \sin(\phi))}} \cdot e^{\left(\frac{\pi}{2} - \phi\right) \cdot \operatorname{tg}(\phi)} \quad N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

$$I_{rr} = \frac{I_r}{1 + \varepsilon_v \cdot I_r} \quad \varepsilon_v = \frac{q_p \cdot \alpha}{E_t} \cdot \frac{(1 + \nu) \cdot (1 - 2 \cdot \nu)}{(1 - \nu)} \quad I_r = \frac{E_t}{2 \cdot (1 + \nu) \cdot (c + q_p \cdot \alpha \cdot \operatorname{tg}(\phi))}$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00 \quad N_c^* = \frac{4}{3} \cdot (\log_n(I_{rr}) + 1) + \frac{\pi}{2} + 1$$

dove i simboli su riportati hanno il seguente significato:

- $E_t$  modulo elastico del terreno alla profondità della punta del palo
- $\nu$  coefficiente di Poisson del terreno alla profondità della punta del palo
- $\alpha$  coefficiente di riduzione della pressione del terreno presente alla profondità della punta del palo

Nel caso in cui si scelga di effettuare la riduzione della pressione del terreno presente alla profondità della punta del palo (cioè  $\alpha \neq 1$ ) il coefficiente di riduzione " $\alpha$ " assume la seguente espressione:

$$\alpha = \frac{1 + 2 \cdot K_0}{3} \quad \text{dove: se } \phi \neq 0 \Rightarrow K_0 = 1 - \sin(\phi); \quad \text{se } \phi = 0 \Rightarrow K_0 = \frac{\nu}{1 - \nu}$$

**Formulazione di Janbu per base poggiate su terreni sciolti (1976)**

se  $\phi \neq 0$  (condizione drenata) si ha:

$$N_q^* = \left(\operatorname{tg}(\phi) + \sqrt{1 + \operatorname{tg}^2(\phi)}\right)^2 \cdot e^{2 \cdot \vartheta \cdot \operatorname{tg}(\phi)} \quad N_c^* = (N_q - 1) \cdot \operatorname{ctg}(\phi)$$

$$\vartheta = 60 + 0.45 \cdot Dr \quad \text{dove "Dr" è la densità relativa del terreno.}$$

se  $\phi = 0$  (condizione non drenata) si ha:

$$N_q^* = 1.00 \quad N_c^* = 5.74$$

**Formulazione di Terzaghi per base poggiate su roccia (1943)**

Per la determinazione del carico limite nel caso di presenza di ammasso roccioso bisogna valutare molto attentamente il grado di solidità della roccia stessa. Tale valutazione viene in genere eseguita stimando l'indice *RQD* (Rock Quality Designation) che rappresenta una misura della qualità di un ammasso roccioso. Tale indice può variare da un minimo di 0 (caso in cui la lunghezza dei pezzi di roccia estratti dal carotiere è inferiore a 100 mm) ad un massimo di 1 (caso in cui la carota risulta integra) ed è calcolato nel seguente modo:

$$RQD = \frac{\sum \text{lunghezze dei pezzi di roccia intatta} > 100\text{mm}}{\text{lunghezza del carotiere}}$$

Se il valore di *RQD* è molto basso la roccia è molto fratturata ed il calcolo della capacità portante dell'ammasso roccioso va condotto alla stregua di un terreno sciolto utilizzando tutte le formulazioni sopra descritte.

$$N_q = \frac{e^{2 \cdot \left(\frac{3 \cdot \pi}{4} - \frac{\phi}{2}\right) \cdot \operatorname{tg}(\phi)}}{2 \cdot \cos^2\left(\frac{\pi}{4} + \frac{\phi}{2}\right)} \quad N_c = (N_q - 1) \cdot \operatorname{ctg}(\phi) \quad \text{se } \phi = 0 \Rightarrow N_c = \frac{3}{2} \cdot \pi + 1$$

$$s_q = 1.00 \quad s_c = 1.30 \quad \text{(fattori di forma)}$$

$$N_q^* = RQD^2 \cdot N_q \cdot s_q \quad N_c^* = RQD^2 \cdot N_c \cdot s_c$$

**Formulazione di Stagg-Zienkiewicz per base poggiate su roccia (1968)**

$$N_q = \text{tg}^6 \left( \frac{90^\circ + \phi}{2} \right) \quad N_c = 5 \cdot \text{tg}^4 \left( \frac{90^\circ + \phi}{2} \right)$$

$$s_q = 1.00 \quad s_c = 1.30 \quad (\text{fattori di forma})$$

$$N_q^* = \text{RQD}^2 \cdot N_q \cdot s_q \quad N_c^* = \text{RQD}^2 \cdot N_c \cdot s_c$$

**CARICO LIMITE VERTICALE LUNGO LA SUPERFICIE LATERALE DEL PALO**

Il valore del carico limite verticale lungo la superficie laterale del palo è dato dall'integrale esteso a tutta la superficie laterale del palo delle tensioni tangenziali che si sviluppano all'interfaccia palo-terreno in condizioni limite:

$$Q_L = \int_{\Gamma} \tau_{\text{lim}} \cdot d\Gamma = \int_0^L (c_a + \sigma_h \cdot \text{tg}(\delta)) \cdot P_{\text{lat}} \cdot dz$$

dove i simboli sopra riportati hanno il seguente significato:

- $\chi_a$                     adesione all'interfaccia terreno-palo alla generica profondità "z"
- $\sigma_h$                     tensione orizzontale alla generica profondità "z"
- $\delta$                         angolo di resistenza a taglio all'interfaccia terreno-palo alla generica profondità "z"
- $P_{\text{lat}}$                     perimetro della sezione trasversale del palo alla generica profondità "z"
- $L$                         sviluppo longitudinale del palo

Analogamente al carico limite alla punta, anche il valore del carico limite verticale lungo la superficie laterale del palo varia notevolmente a seconda che esso sia del tipo "infisso" o "trivellato" a causa del diverso comportamento del terreno circostante in palo. Conseguentemente i parametri sopra riportati possono essere correlati da leggi diverse in funzione delle modalità di esecuzione del palo. Di seguito si descrivono quelle che sono state implementate.

L'adesione " $c_a$ " è correlata alla coesione " $c$ " nel caso di condizioni drenate; oppure alla coesione non drenata " $c_u$ " nel caso di condizioni non drenate, per mezzo del coefficiente d'adesione " $\psi$ " secondo la seguente relazione:

$$c_a = c_* \cdot \psi \quad \text{dove: } c_* = c \text{ (in condizione drenata);}$$

$$c_* = c_u \text{ (in condizione non drenata).}$$

Esprimendo il valore di " $c$ " in N/cm<sup>2</sup>, il coefficiente d'adesione " $\psi$ " può assumere i seguenti valori:

**Caquot-Kerisel (consigliato per pali trivellati)**

$$\psi = \frac{100 + c_*^2}{100 + 7 \cdot c_*^2}$$

**Meyerhof-Murdock (consigliato per pali trivellati)**

$$\text{se } c_* \leq 5.00 \text{ N/cm}^2 \quad \Rightarrow \quad \psi = 1.000 - 0.100 \cdot c_*$$

$$\text{se } c_* > 5.00 \text{ N/cm}^2 \quad \Rightarrow \quad \psi = 0.525 - 0.005 \cdot c_*$$

**Whitaker-Cooke (consigliato per pali trivellati)**

$$\text{se } c_* \leq 2.50 \text{ N/cm}^2 \quad \Rightarrow \quad \psi = 0.90$$

$$\text{se } 2.50 < c_* \leq 5.00 \text{ N/cm}^2 \quad \Rightarrow \quad \psi = 0.80$$

$$\text{se } 5.00 < c_* \leq 7.50 \text{ N/cm}^2 \quad \Rightarrow \quad \psi = 0.60$$

$$\text{se } c_* > 7.50 \text{ N/cm}^2 \quad \Rightarrow \quad \psi = 0.40$$

**Woodward (consigliato per pali trivellati)**



se $c_* \leq 4.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 0.90$
se $4.00 < c_* \leq 8.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 0.60$
se $8.00 < c_* \leq 12.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 0.50$
se $12.00 < c_* \leq 20.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 0.40$
se $c_* > 20.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 0.30$

**Viggiani e altri (consigliato per pali infissi)**

se $c_* \leq 5.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 1.00$
se $5.00 < c_* \leq 10.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 0.70$
se $10.00 < c_* \leq 15.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 0.50$
se $15.00 < c_* \leq 20.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 0.40$
se $c_* > 20.00 \text{ N/cm}^2$	$\Rightarrow$	$\psi = 0.30$

Il valore della tensione orizzontale " $\sigma_h$ " è correlato al valore della pressione verticale " $\sigma_v$ " per mezzo del coefficiente di spinta orizzontale " $K_s$ " secondo la seguente relazione:

$$\sigma_h = \sigma_v \cdot K_s$$

Il valore di " $K_s$ " dipende essenzialmente dal tipo di terreno e dal suo stato d'addensamento nonché dalla tecnologia utilizzata per l'installazione.

Il programma permette di scegliere tra differenti teorie per il calcolo di  $K_s$ .

Opzione 1:

Metodo "Tomlinson (1971)"

$K_s$  può variare da un limite inferiore pari al coefficiente di spinta a riposo " $K_0$ " fino a valori prossimi al coefficiente di spinta passiva " $K_p$ "; i valori proposti sono:

pali trivellati:  $K_s = K_0 = 1 - \text{sen}(\phi)$

pali infissi:  $K_s =$  variabile da:  $K_0 = 1 + \text{tg}^2(\phi)$  in sommità fino a  $K_0 = 1 - \text{sen}(\phi)$  alla punta

Opzione 2:

Metodo di "Kulhavy (1983)"

pali trivellati:  $K_s = \alpha K_0$  con  $\alpha$  variabile tra 2/3 e 1

pali infissi:  $K_s = \alpha K_0$  con  $\alpha$  variabile da 3/4, per compattazione del terreno trascurabile, fino a 2, nel caso di compattazione significativa.

Il valore dell'angolo di resistenza al taglio all'interfaccia terreno-palo " $\delta$ " è funzione della scabrezza della superficie del palo e quindi della modalità esecutiva; i valori proposti sono:

$$\delta = \arctg(\text{tg}(\phi)) \quad (\text{per pali trivellati}) \quad \delta = \arctg\left(\frac{3}{4} \cdot \text{tg}(\phi)\right) \quad (\text{per pali infissi})$$

**SIMBOLOGIA ADOTTATA NEI TABULATI DI CALCOLO**

Per maggior chiarezza nella lettura dei tabulati di calcolo viene riportata la descrizione dei simboli principali utilizzati nella stesura degli stessi. Per comodità di lettura la legenda è suddivisa in paragrafi con la stessa modalità in cui sono stampati i tabulati di calcolo.

**Dati geometrici degli elementi costituenti le fondazioni profonde**

- X elem.                      ascissa nel riferimento globale dell'elemento
- Y elem.                      ordinata nel riferimento globale dell'elemento





- Profon. profondità del piano di posa dell'elemento a partire dal piano campagna
- Base larghezza della sezione trasversale dell'elemento
- Lungh. dimensione dello sviluppo longitudinale dell'elemento
- Altez. altezza della sezione trasversale dell'elemento
- Rotaz. rotazione dell'elemento rispetto al suo baricentro
- Grup. ap. nel caso cui l'elemento faccia parte di una palificata, rappresenta il numero identificativo della stessa
- Ind. Strat. indice della stratigrafia associata all'elemento
- Tip. iniez. tipologia d'iniezione dei micropali ai fini del calcolo della portanza secondo le raccomandazioni di Bustamante e Doix (No iniez. = assenza d'iniezione, Iniez.uni. = iniezione unica, Iniez.rip. = iniezione ripetuta)
- Tip. ter. tipologia di terreno ai fini del calcolo della portanza secondo le raccomandazioni di Bustamante e Doix (Coes. = coesivo, Inc. = incoerente)
- Dia. P. diametro fusto del palo
- Lun. P. lunghezza totale del palo
- Lun. L. lunghezza tratto del palo senza contributo di terreno
- Dis. P. distanza del baricentro del palo dal bordo del plinto
- In. Px interasse principale del palo
- In. Py interasse secondario del palo
- Dia. B. diametro bulbo del palo
- Lun. B. lunghezza della sbulbatura del palo
- E.C.V. coefficiente d'efficienza per carico limite verticale del singolo palo
- E.C.C. coefficiente d'efficienza per carico critico verticale del singolo palo
- E.C.T. coefficiente d'efficienza per carico limite trasversale del singolo palo
- Svin. testa codice di svincolo alla rotazione in testa al palo (0 = non attivo, 1 = attivo)
- Vin. piede codici di vincolo rispettivamente alla rotazione orizzontale, traslazione orizzontale e traslazione verticale applicabili al piede del palo (0 = non attivo, 1 = attivo)
- Asc. X' ascissa del baricentro del singolo palo dell'elemento nel riferimento locale con origine nel baricentro del plinto
- Asc. Y' ordinata del baricentro del singolo palo dell'elemento nel riferimento locale con origine nel baricentro del plinto
- Peso spec. peso specifico del palo
- Mod. El. Pa. modulo elastico normale del palo

#### **Dati di carico degli elementi costituenti le fondazioni profonde**

- Cmb numero della combinazione di carico
- Tipologia tipologia della combinazione di carico
- Sismica flag per l'applicazione della riduzione sismica alle caratteristiche meccaniche del terreno di fondazione per la combinazione di carico in esame
- S. Normale sollecitazione normale agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Tagliante X' sollecitazione tagliante lungo l'asse X' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Tagliante Y' sollecitazione tagliante lungo l'asse Y' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Flessionale X' sollecitazione flessionale lungo l'asse X' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Flessionale Y' sollecitazione flessionale lungo l'asse Y' agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)
- S. Torsionale sollecitazione torsionale agente alla quota del piano di fondazione dell'elemento (riferimento locale con origine nel baricentro del plinto)

#### **Valori di calcolo per le fondazioni profonde**



- Port. punta carico limite verticale alla punta del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- Port. lat. carico limite verticale lungo la superficie laterale del fusto del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- Port. bulbo carico limite verticale lungo la superficie laterale del bulbo del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- C. Critico carico critico per l'instabilità del palo (valore su singolo palo corretto dal relativo coefficiente d'efficienza)
- Attr. Neg. attrito negativo agente sul palo (valore su singolo palo)
- Peso Palo peso totale del singolo palo
- Cmb numero e tipologia della combinazione di carico
- S. Norm. sollecitazione normale agente alla testa del palo in esame
- V. V. Com. resistenza a compressione del palo in esame (corretto dal relativo coefficiente di sicurezza)
- V. V. Tra. resistenza a trazione del palo in esame (corretto dal relativo coefficiente di sicurezza)
- Ver. Com. rapporto tra la sollecitazione normale agente alla testa del palo e la sua resistenza a compressione (verifica positiva se il rapporto è < 1.0)
- Ver. Tra. rapporto tra la sollecitazione normale agente alla testa del palo e la sua resistenza a trazione (verifica positiva se il rapporto è < 1.0)
- S. Tagl. sollecitazione tagliante agente alla testa del palo
- S. Fles. sollecitazione flessionale agente alla testa del palo
- V. V. Trs. resistenza trasversale del palo in esame (corretto dal relativo coefficiente di sicurezza)
- Ver. Tra. rapporto tra la sollecitazione tagliante agente alla testa del palo e la sua resistenza trasversale (verifica positiva se il rapporto è < 1.0)
- Ced. V. cedimento verticale in corrispondenza della testa del palo
- Ced. H. cedimento orizzontale in corrispondenza della testa del palo

## PARAMETRI DI CALCOLO

### Modalità di calcolo della portanza verticale per fondazioni profonde:

Per elementi con pali: Portanza di punta e laterale

Per elementi con micropali: Portanza di punta e laterale

### Metodi di calcolo della portanza di punta per fondazioni profonde:

Per terreni sciolti: Vesic

Riduzione della tensione litostatica: No

Per terreni lapidei: Terzaghi

Riduzione di Kishida per pali battuti o trivellati: Si

Metodo di calcolo del coefficiente di spinta orizzontale Ks: Tomlinson

### Coefficienti parziali e totali di sicurezza per Tensioni Ammissibili e S.L.E. nel calcolo della portanza per fondazioni profonde:

Coeff. di sicurezza alla punta: 2,50

Coeff. di sicurezza lungo il fusto: 2,50

Coeff. di sicurezza lungo il bulbo: 2,50

Coeff. di sicurezza per palo in trazione: 2,50

### Combinazioni di carico:

#### APPROCCIO PROGETTUALE TIPO 2 - Comb. (A1+M1+R3)

Coefficienti parziali e totali di sicurezza per S.L.U. nel calcolo della portanza per pali trivellati:

I coeff. A1 risultano combinati secondo lo schema presente nella relazione di calcolo della struttura.

- Coeff. M1 per  $\tan \phi$  (statico): 1



- Coeff. M1 per c' (statico): 1
- Coeff. M1 per Cu (statico): 1
- Coeff. M1 per Tan  $\phi$  (sismico): 1
- Coeff. M1 per c' (sismico): 1
- Coeff. M1 per Cu sismico): 1
  
- Coeff. R3 base: 1,35
- Coeff. R3 laterale in compressione: 1,15
- Coeff. R3 laterale in trazione: 1,25

Fattore di correlazione: 1,70

### ARCHIVIO STRATIGRAFIE

Indice / Descrizione: 001 / Nuova stratigrafia n. 2

Numero strati: 1

Profondità falda: assente

Strato n.	Quota di riferimento	Spessore	Indice / Descrizione terreno	Attrito Neg.
1	da 0,0 a -5000,0 cm	5000,0 cm	002 / CONGLOMERATI-GHIAIE	Assente

### ARCHIVIO TERRENI

Indice / Descrizione terreno: **002 / CONGLOMERATI-GHIAIE**

Comportamento del terreno: condizione drenata

Peso Spec.	P. Spec. Sat.	Angolo Res.	Coesione	Mod.Elast.	Mod.Edom.	Dens.Rel.	Poisson	C. Ades.
daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	Gradi°	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	daN/cm <sup>2</sup>	%	%	
1,960 E-3	2,050 E-3	36,000	0,150	20000,000	32000,000	70,0	0,350	0,00

### DATI GEOMETRICI DEGLI ELEMENTI COSTITUENTI LE FONDAZIONI PROFONDE

Elemento: 32 - Palo singolo - Tipologia pali: trivellati

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cmcm	Gradi°	n.	n.		
963,4	204,777,5	0,0	0,0148,0	0,00	32	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

Elemento: 62 - Palo singolo - Tipologia pali: trivellati

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cmcm	Gradi°	n.	n.		
-492,4	853,077,5	0,0	0,0148,0	0,00	62	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0



**Elemento: 63 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	Gradi°	n.	n.	
-304,3	936,777,5	0,0	0,0148,0	0,00	63	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm	cm	codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 64 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	Gradi°	n.	n.	
-102,9	979,577,5	0,0	0,0148,0	0,00	64	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm	cm	codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 65 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	Gradi°	n.	n.	
103,0	979,577,5	0,0	0,0148,0	0,00	65	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm	cm	codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 66 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	Gradi°	n.	n.	
304,4	936,777,5	0,0	0,0148,0	0,00	66	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm	cm	codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 67 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	Gradi°	n.	n.	
492,5	852,977,5	0,0	0,0148,0	0,00	67	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm	cm	cm	cm	cm	cm	cm	cm	codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm	cm
1	0,0	0,0

**Elemento: 68 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm	cm	cm	cm	Gradi°	n.	n.	
659,1	731,977,5	0,0	0,0148,0	0,00	68	001		



Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm cm	
1	0,0 0,0	

**Elemento: 69 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
796,9	578,977,5	0,0	0,0148,0	0,00	69	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm cm	
1	0,0 0,0	

**Elemento: 70 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
899,8	400,577,5	0,0	0,0148,0	0,00	70	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm cm	
1	0,0 0,0	

**Elemento: 71 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
984,9	-0,1 77,5	0,0	0,0148,0	0,00	71	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm cm	
1	0,0 0,0	

**Elemento: 72 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
963,4	-204,977,5	0,0	0,0148,0	0,00	72	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm cm	
1	0,0 0,0	

**Elemento: 73 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
899,7	-400,777,5	0,0	0,0148,0	0,00	73	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

Palo	Asc. X'	Ord. Y'
n.	cm cm	
1	0,0 0,0	



n. cm cm  
1 0,0 0,0

**Elemento: 74 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
796,8	-579,077,5	0,0	0,0148,0	0,00	74	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 75 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
659,0	-732,077,5	0,0	0,0148,0	0,00	75	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 76 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
492,4	-853,077,5	0,0	0,0148,0	0,00	76	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 77 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
304,3	-936,777,5	0,0	0,0148,0	0,00	77	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 78 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
102,9	-979,577,5	0,0	0,0148,0	0,00	78	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 79 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
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cm cm cm cm cmcm Gradi° n. n.  
-103,0 -979,577,5 0,0 0,0148,0 0,00 79 001

**Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede**  
cm cm cm cm cmcm cm cm cm cm cm cmcm codice codice  
60,0 1000,0 0,0 0,00,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 80 - Palo singolo - Tipologia pali: trivellati**

**X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.**  
cm cm cm cm cmcm Gradi° n. n.  
-304,4 -936,777,5 0,0 0,0148,0 0,00 80 001

**Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede**  
cm cm cm cm cmcm cm cm cm cm cm cmcm codice codice  
60,0 1000,0 0,0 0,00,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 81 - Palo singolo - Tipologia pali: trivellati**

**X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.**  
cm cm cm cm cmcm Gradi° n. n.  
-492,5 -852,977,5 0,0 0,0148,0 0,00 81 001

**Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede**  
cm cm cm cm cmcm cm cm cm cm cm cmcm codice codice  
60,0 1000,0 0,0 0,00,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 82 - Palo singolo - Tipologia pali: trivellati**

**X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.**  
cm cm cm cm cmcm Gradi° n. n.  
-659,1 -731,977,5 0,0 0,0148,0 0,00 82 001

**Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede**  
cm cm cm cm cmcm cm cm cm cm cm cmcm codice codice  
60,0 1000,0 0,0 0,00,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 83 - Palo singolo - Tipologia pali: trivellati**

**X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.**  
cm cm cm cm cmcm Gradi° n. n.  
-796,9 -578,977,5 0,0 0,0148,0 0,00 83 001

**Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede**  
cm cm cm cm cmcm cm cm cm cm cm cmcm codice codice  
60,0 1000,0 0,0 0,00,0 0,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 84 - Palo singolo - Tipologia pali: trivellati**

**X elem. Y elem. Prof. Base Lungh. Altez. Rot. Grup.ap. Ind.strat.**  
cm cm cm cm cmcm Gradi° n. n.  
-899,8 -400,577,5 0,0 0,0148,0 0,00 84 001

**Dia. P. Lun. P. Lun. L. Dist.P. In. Px In. Py Dia. B. Lun. B. E.C.V. E.C.C. E.C.T. Svin.testa Vin.piede**  
cm cm cm cm cmcm cm cm cm cm cm cmcm codice codice



60,0 1000,0 0,0 0,00,0 0,0 0,0 0,0 1,00 1,00 1,00 0 0; 0; 0

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 85 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
-963,4	-204,777,5	0,0	0,0148,0	0,00	85	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 86 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
-984,9	0,0 77,5	0,0	0,0148,0	0,00	86	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 87 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
-963,4	204,977,5	0,0	0,0148,0	0,00	87	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 88 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
-899,7	400,777,5	0,0	0,0148,0	0,00	88	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0

**Elemento: 89 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.
cm	cm cm	cm	cmcm	Gradi°	n.	n.		
-796,8	579,077,5	0,0	0,0148,0	0,00	89	001		

Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede
cm	cm cm	cm	cmcm	cm	cm				codice	codice		
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0	

**Palo Asc. X' Ord. Y'**  
n. cm cm  
1 0,0 0,0





**Elemento: 90 - Palo singolo - Tipologia pali: trivellati**

X elem.	Y elem.	Prof.	Base	Lungh.	Altez.	Rot.	Grup.ap.	Ind.strat.					
cm	cm	cm	cm	cm	n.	n.							
-659,0	732,077,5	0,0	0,0148,0	0,00	90	001							
Dia. P.	Lun. P.	Lun. L.	Dist.P.	In. Px	In. Py	Dia. B.	Lun. B.	E.C.V.	E.C.C.	E.C.T.	Svin.testa	Vin.piede	
cm	cm	cm	cm	cm	cm				codice	codice			
60,0	1000,0	0,0	0,00,0	0,0	0,0	0,0	1,00	1,00	1,00	0	0; 0; 0		
Palo	Asc. X'	Ord. Y'											
n.	cm	cm											
1	0,0	0,0											

**VALORI DI CALCOLO DELLA PORTANZA PER FONDAZIONI PROFONDE**

**Elemento: 32 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33,0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-24145.1	-11098750.0	0,002	Ok	
Sollecitazioni:								
Cmb	Tipo	Sism. N	Tx	Ty	Mx	My		
n.	n.	N	N	N	N mm	N mm		
001	SLU STR	No	-24145.1479400.0	146700.0	68310000	-203900000		

**Elemento: 62 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33,0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	5611.9	371386.8	0,015	Ok	
Sollecitazioni:								
Cmb	Tipo	Sism. N	Tx	Ty	Mx	My		
n.	n.	N	N	N	N mm	N mm		
001	SLU STR	No	5611.9-54554.7	-233200.0	-109700000	43540000		

**Elemento: 63 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33,0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	1832.2	371386.8	0,005	Ok	
Sollecitazioni:								
Cmb	Tipo	Sism. N	Tx	Ty	Mx	My		
n.	n.	N	N	N	N mm	N mm		
001	SLU STR	No	1832.2-145600.0	-140500.0	-66530000	86200000		

**Elemento: 64 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33,0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
003	SLU STR	10.00	0.00	-4083.4	-11098750.0	0,000	Ok	
Sollecitazioni:								
Cmb	Tipo	Sism. N	Tx	Ty	Mx	My		
n.	n.	N	N	N	N mm	N mm		
003	SLU STR	No	-4083.4-95032.1	42945.7	18680000	52130000		

**Elemento: 65 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33,0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-6423.0	-11098750.0	0,001	Ok	
Sollecitazioni:								
Cmb	Tipo	Sism. N	Tx	Ty	Mx	My		
n.	n.	N	N	N	N mm	N mm		
001	SLU STR	No	-6423.0-181700.0	118000.0	54020000	103500000		



**Elemento: 66 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-10531.6	-11098750.0	0,001	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-10531.6-117400.0	239200.0	110600000	73770000

**Elemento: 67 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-14382.8	-11098750.0	0,001	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-14382.8-7978.8	325900.0	151200000	22910000

**Elemento: 68 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-17806.4	-11098750.0	0,002	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-17806.4129100.0	362300.0	168300000	-40830000

**Elemento: 69 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-20652.1	-11098750.0	0,002	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-20652.1271200.0	341400.0	158700000	-107000000

**Elemento: 70 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-22795.8	-11098750.0	0,002	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-22795.8394800.0	265600.0	123600000	-164500000

**Elemento: 71 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-24642.4	-11098750.0	0,002	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-24642.4510800.0	3738.5	1877000	-218500000

**Elemento: 72 - Palo singolo**

Nq = 375.740,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ , Nc = 577.048, c punta = 0.150  
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N



Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-24267.5	-11098750.0	0,002	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-24267.5483900.0	-140000.0	-64930000	-205900000

**Elemento: 73 - Palo singolo**

Nq = 375.740,  $\sigma_{punta}$  = 2.112,  $\phi$  = 33.0, Nc = 577.048, c punta = 0.150

Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-23038.0	-11098750.0	0,002	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-23038.0403200.0	-261300.0	-121300000	-168300000

**Elemento: 74 - Palo singolo**

Nq = 375.740,  $\sigma_{punta}$  = 2.112,  $\phi$  = 33.0, Nc = 577.048, c punta = 0.150

Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-21008.8	-11098750.0	0,002	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-21008.8282200.0	-340600.0	-158100000	-112000000

**Elemento: 75 - Palo singolo**

Nq = 375.740,  $\sigma_{punta}$  = 2.112,  $\phi$  = 33.0, Nc = 577.048, c punta = 0.150

Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-18269.7	-11098750.0	0,002	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-18269.7141100.0	-365700.0	-169600000	-46320000

**Elemento: 76 - Palo singolo**

Nq = 375.740,  $\sigma_{punta}$  = 2.112,  $\phi$  = 33.0, Nc = 577.048, c punta = 0.150

Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-14940.6	-11098750.0	0,001	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-14940.63222.0	-333300.0	-154300000	17770000

**Elemento: 77 - Palo singolo**

Nq = 375.740,  $\sigma_{punta}$  = 2.112,  $\phi$  = 33.0, Nc = 577.048, c punta = 0.150

Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-11167.5	-11098750.0	0,001	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	-11167.5-108800.0	-250000.0	-115400000	69770000

**Elemento: 78 - Palo singolo**

Nq = 375.740,  $\sigma_{punta}$  = 2.112,  $\phi$  = 33.0, Nc = 577.048, c punta = 0.150

Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	-7115.0	-11098750.0	0,001	Ok	

Sollecitazioni:



Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
001	SLU STR	No	-7115.0-177000.0	-130900.0	-59870000	101400000	

**Elemento: 79 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
003	SLU STR	10.00	0.00	-4087.9	-11098750.0	0,000	Ok	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
003	SLU STR	No	-4087.9-95090.8	-43015.0	-18710000	52160000	

**Elemento: 80 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	1117.4	371386.8	0,003	Ok	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
001	SLU STR	No	1117.4-150300.0	129300.0	61290000	88550000	

**Elemento: 81 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	4939.4	371386.8	0,013	Ok	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
001	SLU STR	No	4939.4-63187.7	225700.0	106100000	47760000	

**Elemento: 82 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	8340.7	371386.8	0,022	Ok	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
001	SLU STR	No	8340.7 53856.2	276500.0	129700000	-6939000	

**Elemento: 83 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	11174.1	371386.8	0,030	Ok	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
001	SLU STR	No	11174.1179300.0	274000.0	128300000	-65540000	

**Elemento: 84 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	13317.3	371386.8	0,036	Ok	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
001	SLU STR	No	13317.3290500.0	219700.0	102900000	-117500000	



**Elemento: 85 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	14677.9	371386.8	0,040	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	14677.9367500.0	124400.0	58260000	-153500000

**Elemento: 86 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	15196.7	371386.8	0,041	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	15196.7396500.0	6036.5	2906000	-167000000

**Elemento: 87 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	14850.6	371386.8	0,040	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	14850.6372400.0	-113600.0	-53070000	-155800000

**Elemento: 88 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	13652.6	371386.8	0,037	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	13652.6299200.0	-212100.0	-99230000	-121700000

**Elemento: 89 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	11652.2	371386.8	0,031	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	11652.2190100.0	-271100.0	-127000000	-70830000

**Elemento: 90 - Palo singolo**

$N_q = 375.740$ ,  $\sigma_{punta} = 2.112$ ,  $\phi = 33.0$ ,  $N_c = 577.048$ ,  $c_{punta} = 0.150$   
Port. lat. = 638989.5 N, Port. punta = 24883730.0 N, P.P.Palo = 70685.8 N

Cmb.	Tipo	Palo	coord.X	coord.Y	N	N lim	Ver.N	Stato
n.	n.	mm	mm	N	N			
001	SLU STR	10.00	0.00	8933.3	371386.8	0,024	Ok	

Sollecitazioni:

Cmb	Tipo	Sism. N	Tx	Ty	Mx	My
n.		N	N	N	N mm	N mm
001	SLU STR	No	8933.3 64653.8	-279000.0	-130900000	-12210000

**VALORI DI CALCOLO DEI CEDIMENTI PER FONDAZIONI PROFONDE**

**Elemento: 32 - Palo singolo**



**Cmb. (Tipo)**                      **Palo**                      **coord.X**                      **coord.Y**                      **N**                      **Ced.Vert**  
n.                      n.                      mm mm                      N                      mm  
002 (SLE freq)                      1 0.00                      0.00                      -19774.8                      0.07

Sollecitazioni:

**Cmb**    **Tipo**                      **Sism. N**                      **Tx**                      **Ty**                      **Mx**                      **My**  
n.                      N                      N                      N                      N mm                      N mm  
002    SLE freq                      No    -19774.8387700.0                      116800.0                      54350000                      -165300000

**Elemento: 62 - Palo singolo**

**Cmb. (Tipo)**                      **Palo**                      **coord.X**                      **coord.Y**                      **N**                      **Ced.Vert**  
n.                      n.                      mm mm                      N                      mm  
002 (SLE freq)                      1 0.00                      0.00                      3115.3                      0.01

Sollecitazioni:

**Cmb**    **Tipo**                      **Sism. N**                      **Tx**                      **Ty**                      **Mx**                      **My**  
n.                      N                      N                      N                      N mm                      N mm  
002    SLE freq                      No    3115.3-51664.2                      -162600.0                      -76840000                      37830000

**Elemento: 63 - Palo singolo**

**Cmb. (Tipo)**                      **Palo**                      **coord.X**                      **coord.Y**                      **N**                      **Ced.Vert**  
n.                      n.                      mm mm                      N                      mm  
002 (SLE freq)                      1 0.00                      0.00                      207.8                      0.00

Sollecitazioni:

**Cmb**    **Tipo**                      **Sism. N**                      **Tx**                      **Ty**                      **Mx**                      **My**  
n.                      N                      N                      N                      N mm                      N mm  
002    SLE freq                      No    207.8-118000.0                      -89597.2                      -42930000                      68990000

**Elemento: 64 - Palo singolo**

**Cmb. (Tipo)**                      **Palo**                      **coord.X**                      **coord.Y**                      **N**                      **Ced.Vert**  
n.                      n.                      mm mm                      N                      mm  
002 (SLE freq)                      1 0.00                      0.00                      -2924.4                      0.01

Sollecitazioni:

**Cmb**    **Tipo**                      **Sism. N**                      **Tx**                      **Ty**                      **Mx**                      **My**  
n.                      N                      N                      N                      N mm                      N mm  
002    SLE freq                      No    -2924.4-149000.0                      6734.6                      1955000                      83730000

**Elemento: 65 - Palo singolo**

**Cmb. (Tipo)**                      **Palo**                      **coord.X**                      **coord.Y**                      **N**                      **Ced.Vert**  
n.                      n.                      mm mm                      N                      mm  
002 (SLE freq)                      1 0.00                      0.00                      -6142.4                      0.02

Sollecitazioni:

**Cmb**    **Tipo**                      **Sism. N**                      **Tx**                      **Ty**                      **Mx**                      **My**  
n.                      N                      N                      N                      N mm                      N mm  
002    SLE freq                      No    -6142.4-137700.0                      110100.0                      50180000                      78720000

**Elemento: 66 - Palo singolo**

**Cmb. (Tipo)**                      **Palo**                      **coord.X**                      **coord.Y**                      **N**                      **Ced.Vert**  
n.                      n.                      mm mm                      N                      mm  
002 (SLE freq)                      1 0.00                      0.00                      -9302.8                      0.03

Sollecitazioni:

**Cmb**    **Tipo**                      **Sism. N**                      **Tx**                      **Ty**                      **Mx**                      **My**  
n.                      N                      N                      N                      N mm                      N mm  
002    SLE freq                      No    -9302.8-84331.3                      202500.0                      93350000                      54060000

**Elemento: 67 - Palo singolo**

**Cmb. (Tipo)**                      **Palo**                      **coord.X**                      **coord.Y**                      **N**                      **Ced.Vert**  
n.                      n.                      mm mm                      N                      mm  
002 (SLE freq)                      1 0.00                      0.00                      -12265.3                      0.04

Sollecitazioni:

**Cmb**    **Tipo**                      **Sism. N**                      **Tx**                      **Ty**                      **Mx**                      **My**  
n.                      N                      N                      N                      N mm                      N mm  
002    SLE freq                      No    -12265.33564.4                      267500.0                      123800000                      13290000

**Elemento: 68 - Palo singolo**

**Cmb. (Tipo)**                      **Palo**                      **coord.X**                      **coord.Y**                      **N**                      **Ced.Vert**  
n.                      n.                      mm mm                      N                      mm  
002 (SLE freq)                      1 0.00                      0.00                      -14898.8                      0.05

Sollecitazioni:

**Cmb**    **Tipo**                      **Sism. N**                      **Tx**                      **Ty**                      **Mx**                      **My**  
n.                      N                      N                      N                      N mm                      N mm  
002    SLE freq                      No    -14898.8112300.0                      293100.0                      135900000                      -37210000



**Elemento: 69 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n. n.	mmmm	N	mm		
002 (SLE freq)	1 0.00	0.00	-17087.8	0.06	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	-17087.8224300.0	274000.0	127200000	-89300000	

**Elemento: 70 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n. n.	mmmm	N	mm		
002 (SLE freq)	1 0.00	0.00	-18736.9	0.07	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	-18736.9321400.0	212200.0	98580000	-134500000	

**Elemento: 71 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n. n.	mmmm	N	mm		
002 (SLE freq)	1 0.00	0.00	-20157.3	0.07	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	-20157.3412300.0	2873.5	1443000	-176700000	

**Elemento: 72 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n. n.	mmmm	N	mm		
002 (SLE freq)	1 0.00	0.00	-19868.9	0.07	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	-19868.9391200.0	-111700.0	-51750000	-166900000	

**Elemento: 73 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n. n.	mmmm	N	mm		
002 (SLE freq)	1 0.00	0.00	-18923.1	0.07	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	-18923.1327900.0	-208900.0	-96810000	-137400000	

**Elemento: 74 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n. n.	mmmm	N	mm		
002 (SLE freq)	1 0.00	0.00	-17362.3	0.06	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	-17362.3232700.0	-273400.0	-126700000	-93150000	

**Elemento: 75 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n. n.	mmmm	N	mm		
002 (SLE freq)	1 0.00	0.00	-15255.2	0.05	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	-15255.2121500.0	-295700.0	-136900000	-41430000	

**Elemento: 76 - Palo singolo**

Cmb. (Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n. n.	mmmm	N	mm		
002 (SLE freq)	1 0.00	0.00	-12694.4	0.05	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
-----	------	-------	---	----	----	----	----



n.	N	N	N	N mm	N mm
002 SLE freq	No	-12694.412177.8	-273200.0	-126200000	9330000

**Elemento: 77 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n. n.	mm mm	N	mm		
002 (SLE freq)	1 0.00	0.00	-9792.0	0.04	

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism. N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.		N	N	N	N mm	N mm
002 SLE freq	No	-9792.0-77671.6	-210800.0	-97050000	50990000	

**Elemento: 78 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n. n.	mm mm	N	mm		
002 (SLE freq)	1 0.00	0.00	-6674.7	0.02	

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism. N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.		N	N	N	N mm	N mm
002 SLE freq	No	-6674.7-134100.0	-120000.0	-54670000	77060000	

**Elemento: 79 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n. n.	mm mm	N	mm		
002 (SLE freq)	1 0.00	0.00	-3478.4	0.01	

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism. N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.		N	N	N	N mm	N mm
002 SLE freq	No	-3478.4-149000.0	-16753.3	-6591000	83790000	

**Elemento: 80 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n. n.	mm mm	N	mm		
002 (SLE freq)	1 0.00	0.00	-342.1	0.00	

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism. N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.		N	N	N	N mm	N mm
002 SLE freq	No	-342.1-121600.0	81005.2	38900000	70790000	

**Elemento: 81 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n. n.	mm mm	N	mm		
002 (SLE freq)	1 0.00	0.00	2597.9	0.01	

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism. N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.		N	N	N	N mm	N mm
002 SLE freq	No	2597.9-58308.2	156800.0	74120000	41070000	

**Elemento: 82 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n. n.	mm mm	N	mm		
002 (SLE freq)	1 0.00	0.00	5214.3	0.02	

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism. N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.		N	N	N	N mm	N mm
002 SLE freq	No	5214.3 28444.5	198300.0	93310000	465391	

**Elemento: 83 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n. n.	mm mm	N	mm		
002 (SLE freq)	1 0.00	0.00	7393.8	0.03	

Sollecitazioni:

<b>Cmb</b>	<b>Tipo</b>	<b>Sism. N</b>	<b>Tx</b>	<b>Ty</b>	<b>Mx</b>	<b>My</b>
n.		N	N	N	N mm	N mm
002 SLE freq	No	7393.8122300.0	199400.0	93630000	-43400000	

**Elemento: 84 - Palo singolo**

<b>Cmb. (Tipo)</b>	<b>Palo</b>	<b>coord.X</b>	<b>coord.Y</b>	<b>N</b>	<b>Ced.Vert</b>
n. n.	mm mm	N	mm		
002 (SLE freq)	1 0.00	0.00	9042.5	0.03	





Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	9042.5205800.0	161100.0	75600000	-82450000	

Elemento: 85 - Palo singolo

Cmb.	(Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	mmmm	N	mm		
002	(SLE freq)	1 0.00	0.00	10089.0	0.04	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	10089.0263700.0	91645.0	43010000	-109600000	

Elemento: 86 - Palo singolo

Cmb.	(Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	mmmm	N	mm		
002	(SLE freq)	1 0.00	0.00	10488.1	0.04	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	10488.1285600.0	4643.5	2235000	-119800000	

Elemento: 87 - Palo singolo

Cmb.	(Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	mmmm	N	mm		
002	(SLE freq)	1 0.00	0.00	10221.9	0.04	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	10221.9267500.0	-83336.2	-39020000	-111400000	

Elemento: 88 - Palo singolo

Cmb.	(Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	mmmm	N	mm		
002	(SLE freq)	1 0.00	0.00	9300.4	0.03	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	9300.4212400.0	-155300.0	-72800000	-85720000	

Elemento: 89 - Palo singolo

Cmb.	(Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	mmmm	N	mm		
002	(SLE freq)	1 0.00	0.00	7761.6	0.03	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	7761.6130600.0	-197200.0	-92570000	-47470000	

Elemento: 90 - Palo singolo

Cmb.	(Tipo)	Palo	coord.X	coord.Y	N	Ced.Vert
n.	n.	mmmm	N	mm		
002	(SLE freq)	1 0.00	0.00	5670.2	0.02	

Sollecitazioni:

Cmb	Tipo	Sism.	N	Tx	Ty	Mx	My
n.		N	N	N	N	N mm	N mm
002	SLE freq	No	5670.2 36753.1	-200200.0	-94220000	-3594000	

## CONCLUSIONI

Considerato quanto sopra, le verifiche geotecniche sul sistema di fondazione analizzato risultano essere soddisfatte. Si precisa ancora una volta che il calcolo ha carattere preliminare, dovrà essere verificato in fase esecutiva considerando i carichi effettivamente trasmessi dalla sovrastruttura.



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