

Provincia di Cuneo  
S.S. 28 del Colle di Nava  
Lavori di realizzazione della Tangenziale di Mondovì con collegamento alla S.S. 28 Dir – 564 e al casello A6 "Torino–Savona" – III Lotto (Variante di Mondovì)

**PROGETTO DEFINITIVO**

COD. TO08

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PROTOCOLLO:	DATA:	

11 – OPERE MAGGIORI: GALLERIA  
11.3 – Gallerie artificiali e opere di imbocco  
Relazione di calcolo uscite cunicolo di fuga

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## 1. INQUADRAMENTO GENERALE

La presente relazione illustra, nell'ambito della redazione del Progetto Definitivo relativo alla realizzazione lungo la S.S. n.28 del Colle di Nava della Tangenziale di Mondovì con collegamento alla S.S. 28 Dir - 564 ed al casello A6 "Torino-Savona" - III Lotto (Variante di Mondovì) dal Km 1+125 al km 2+536.92, le scelte progettuali e le metodologie costruttive previste per la realizzazione dei locali di uscita cunicolo di fuga necessari agli imbocchi della Galleria S.Lorenzo, fornendo al contempo il dimensionamento delle strutture e la loro verifica.

### 1.1. Descrizione delle opere

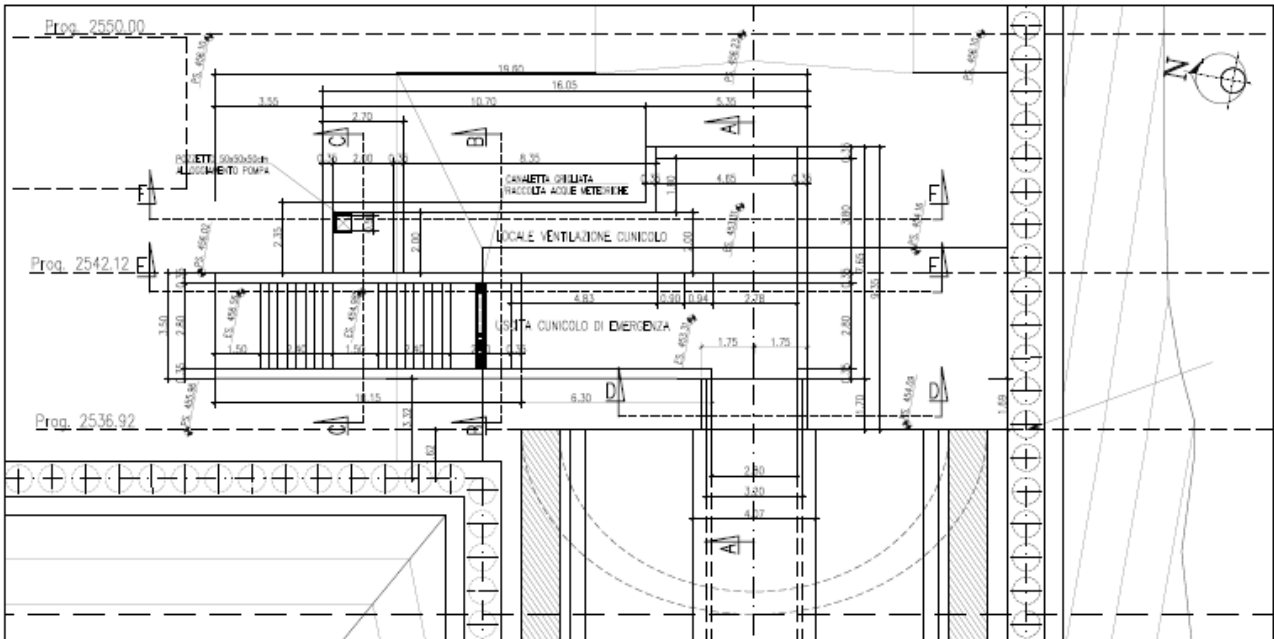
La galleria S. Lorenzo rappresenta nell'ambito del lotto di progetto l'opera di maggiore importanza, si sviluppa tra le progressive 1+125 ad ovest e 2+536.92 ad est per una lunghezza di 1411.92m, presenta una sezione tale da accogliere una piattaforma stradale tipo "C1" secondo il DM. 05.01.2001, mentre nella sezione è prevista la realizzazione di una via di fuga pedonale al di sotto della pavimentazione.

Agli imbocchi sono previsti dei locali di uscita della via di fuga, argomento della presente relazione.

Geometricamente tali locali sono costituiti da un manufatto bicamera in c.a. , realizzato al di sotto della via di traffico, con soletta di fondazione da 35.0 cm di spessore , setti verticali controterra e di spina di 35.0 cm di spessore e soletta superiore di 35.0 cm di spessore. L'altezza netta interna delle camere è di 2.40 m e la quota di fondazione è mediamente a - 3.70 m dal piano viabile, -10.0 m dal piano campagna origine. Un maggior dettaglio dell'opera è ricavabile dai disegni seguenti, relativi all'imbocco Est, ma tipici per entrambi i manufatti:

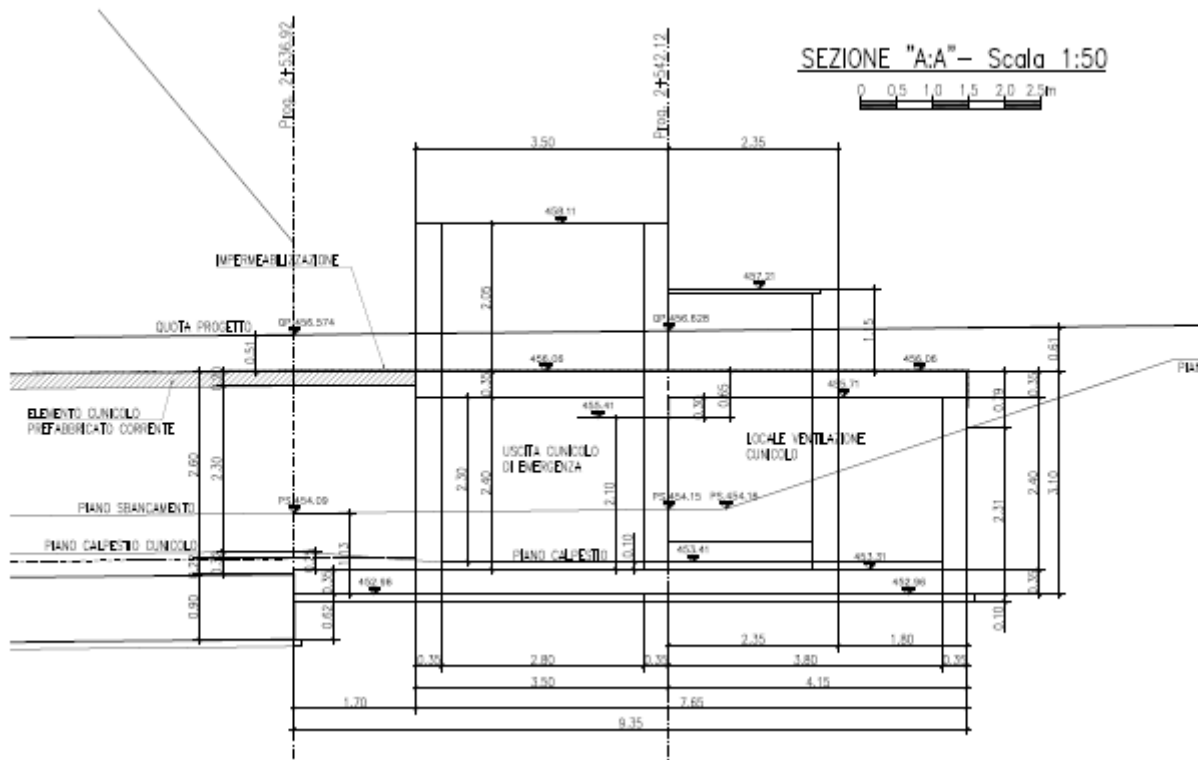
USCITA CUNICOLO DI FUGA EST: PIANTA MURATURE  
(Scala 1:100)

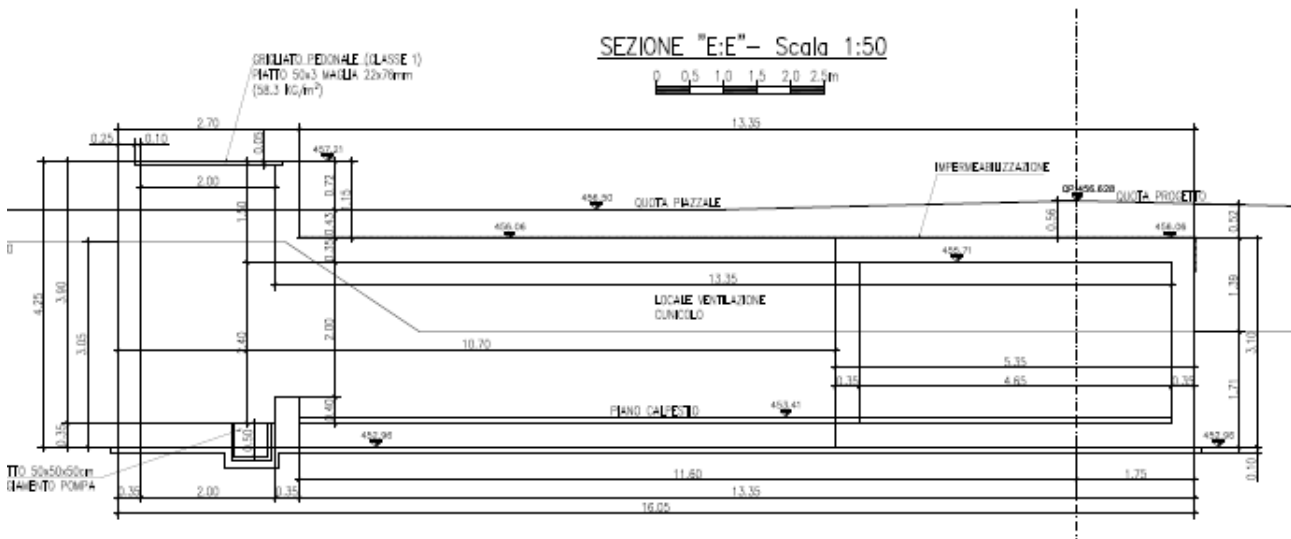
0 1.0 2.0 3.0 4.0 5.0m



SEZIONE "A:A" - Scala 1:50

0 0.5 1.0 1.5 2.0 2.5m





Per le analisi statiche seguenti si considererà la porzione di manufatto fino alla sezione di inserimento della scala, estendendo i risultati alla restante. L'opera sarà studiata nel suo complesso tridimensionale al fine di analizzare con completezza sia la geometria sia i carichi.

Le azioni considerate nel calcolo sono quelle tipiche di una struttura interrata in zona sismica con l'aggiunta dei carichi di tipo stradale, secondo quanto previsto nel D.M. 17.01.2018 "Aggiornamento delle Norme tecniche per le costruzioni".

## 1.2. Normativa di riferimento

### Opere in c.a.

- Legge 5 novembre 1971 n. 1086 - Norme per la disciplina delle opere in conglomerato cementizio armato, normale e precompresso ed a struttura metallica;
- Circ. Min. LL.PP.14 Febbraio 1974, n. 11951 – Applicazione della L. 5 novembre 1971, n. 1086”;
- Legge 2 febbraio 1974 n. 64, recante provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche;
- D. M. Min. Il. TT. del 14 gennaio 2008 – Norme tecniche per le costruzioni;
- D. M. Min. Il. TT. del 17 gennaio 2018 – Aggiornamento delle Norme tecniche per le costruzioni;
- Circolare 2 febbraio 2009, n.617 Istruzioni per l'applicazione delle Nuove norme tecniche per le costruzioni di cui al D.M. del 14/01/2008 (G.U. n.47 del 26/02/2009);
- D.L. 30.12.2008 n. 207, conv. con modificazioni con L. 27/02/2009 n. 14;
- UNI EN 1990 (Eurocodice 0) – Aprile 2006: “Criteri generali di progettazione strutturale”;
- UNI EN 1991-2-4 (Eurocodice 1) – Agosto 2004 – Azioni in generale: “Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici”;

- UNI EN 1991-1-1 (Eurocodice 1) – Agosto 2004 – Azioni in generale- Parte 1-1: “Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici”;
- UNI EN 1992-1-1 (Eurocodice 2) – Novembre 2005: “Progettazione delle strutture di calcestruzzo – Parte 1-1: “Regole generali e regole per gli edifici”;
- UNI EN 1997-1 (Eurocodice 7) – Febbraio 2005: “Progettazione geotecnica – Parte 1: Regole generali”;
- UNI EN 1998-1 (Eurocodice 8) – Marzo 2005: “Progettazione delle strutture per la resistenza sismica – Parte 1: Regole generali – Azioni sismiche e regole per gli edifici”;
- UNI EN 1998-2 (Eurocodice 8) – Febbraio 2006: “Progettazione delle strutture per la resistenza sismica – Parte 2: Ponti”;
- UNI ENV 1998-5 (Eurocodice 8) – Gennaio 2005: “Progettazione delle strutture per la resistenza sismica – Parte 2: Fondazioni, strutture di contenimento ed aspetti geotecnici”.
- Linee guida sul calcestruzzo strutturale - Presidenza del Consiglio Superiore dei Lavori Pubblici - Servizio Tecnico Centrale;
- UNI EN 197-1 giugno 2001 – “Cemento: composizione, specificazioni e criteri di conformità per cementi comuni;
- UNI EN 11104 marzo 2004 – “Calcestruzzo: specificazione, prestazione, produzione e conformità”, Istruzioni complementari per l’applicazione delle EN 206-1;
- UNI EN 206-1 ottobre 2006 – “Calcestruzzo: specificazione, prestazione, produzione e conformità”.
- AFTES – “Considerations on the usual methods of tunnel lining design” – Working Group n° 7, 1993;
- AICAP “Ancoraggi nei terreni e nelle rocce” – Raccomandazioni, 1993
- Società Italiana Gallerie “Linee guida per la progettazione, l’appalto e la costruzione di opere in sotterraneo”, 1996

## Strade

- D.M. 5 novembre 2001 – Norme funzionali e geometriche per la costruzione delle strade;
- D.M. 22 aprile 2004 – Modifica del decreto 5 novembre 2001, n. 6792, recante “Norme funzionali e geometriche per la costruzione delle strade”;
- Decreto Legislativo 30 aprile 1992 n. 285– Nuovo codice della strada;
- D.P.R. 16 dicembre 1992 n. 495 – Regolamento di esecuzione e di attuazione del nuovo codice della strada;
- D.Lgs. 15 gennaio 2002 n. 9 – disposizioni integrative e correttive del nuovo codice della strada, a norma dell’articolo 1, comma 1, della L. 22 marzo 2001, n. 85;
- D.L. 20 giugno 2002 n. 121 – disposizioni urgenti per garantire la sicurezza nella circolazione stradale;
- L. 1 agosto 2002 n. 168 – conversione in legge, con modificazioni, del D.L. 20 giugno 2002, n. 121, recante disposizioni urgenti per garantire la sicurezza nella circolazione stradale;
- D.L. 27 giugno 2003 n. 151 – modifiche ed integrazioni al codice della strada;
- L. 1 agosto 2003 n. 214 – conversione in legge, con modificazioni, del D.L. 27 giugno 2003, n. 151, recante modifiche ed integrazioni al codice della strada;
- D.M. 30 novembre 1999 n. 557 – Regolamento recante norme per la definizione delle caratteristiche tecniche delle piste ciclabili;

- Bollettino CNR n. 150 – Norme sull'arredo funzionale delle strade urbane.

#### Altri documenti

- CNR 10024/86 – Analisi mediante elaboratore: impostazione e redazione delle relazioni di calcolo.

### 1.3. Caratteristiche dei materiali

Si riportano i materiali costituenti le varie opere secondo quanto prescritto dalla vigente normativa:

#### **Calcestruzzo per magrone**

Per il magrone di sottofondazione si prevede l'utilizzo di calcestruzzo di classe C 12/15.

#### **Calcestruzzo per getti**

Per la realizzazione delle strutture delle uscite cunicolo di fuga si prevede l'utilizzo di calcestruzzo in classe C 30/37, che presenta le seguenti caratteristiche:

Resistenza a compressione (cilindrica)	$f_{ck} = 0.83 * R_{ck} = 30.00 \text{ N/mm}^2$
Resistenza di calcolo a compressione	$f_{cd} = \alpha_{cc} * f_{ck} / \gamma_c = 0.85 * f_{ck} / 1.5 = 17.00 \text{ N/mm}^2$
Resistenza di calcolo a compressione elastica	$s_c = 0.60 * f_{ck} = 18.00 \text{ N/mm}^2$
Resistenza a trazione media	$f_{ctm} = 0.30 * f_{ck}^{2/3} = 2.90 \text{ N/mm}^2$
Resistenza a trazione	$f_{ctk} = 0.7 * f_{ctm} = 2.03 \text{ N/mm}^2$
Resistenza a trazione di calcolo	$f_{ctd} = f_{ctk} / \gamma_c = 1.35 \text{ N/mm}^2$
Modulo elastico	$E_{cm} = 32836.57 \text{ N/mm}^2$
Classe di consistenza del calcestruzzo fresco	S4 (slump 0,16-0,21 m)
Classe di esposizione	XC2 , XD1
Aggregati	Non gelivi - Dimensione massima 32 mm
Rapporto acqua/cemento	<0.45
Contenuto minimo cemento	360 kg/mc

#### **Acciaio per cemento armato**

Per le armature metalliche si adottano tondini in acciaio del tipo B450C controllato in stabilimento, che presentano le seguenti caratteristiche:

Limite di snervamento $f_y$	$\geq 450 \text{ MPa}$
Limite di rottura $f_t$	$\geq 540 \text{ MPa}$
Allungamento totale al carico massimo $A_{gt}$	$\geq 7\%$
Rapporto $f_t / f_y$	$1,13 \leq R_m/R_e \leq 1,35$
Rapporto $f_y$ misurato / $f_y$ nom	$\leq 1,25$
Tensione di snervamento caratteristica	$f_{yk} \geq 450 \text{ N/mm}^2$
Tensione caratteristica a rottura	$f_{tk} \geq 540 \text{ N/mm}^2$
Tensione di calcolo elastica	$\sigma_c = 0.80 * f_{yk} = 360.00 \text{ N/mm}^2$
Fattore di sicurezza acciaio	$\gamma_s = 1.15$
Resistenza a trazione di calcolo	$f_{vd} = f_{yk} / \gamma_s = 391.30 \text{ N/mm}^2$

In ottemperanza a quanto prescritto dalla Circolare applicativa e dalla Normativa il valore del copriferro è stato valutato in funzione della classe di esposizione e della vita nominale dell'opera. Per quanto riguarda la classe di esposizione si è fatto riferimento cautelativamente alla classe XD1 e quindi ad ambiente Aggressivo. La vita nominale dell'opera è di 50 anni. Pertanto il copriferro minimo risulta di 35+10 mm. Si utilizza un copriferro di 50 mm valido per tutte le parti della struttura.



## 2. CARATTERIZZAZIONE GEOTECNICA

Il materiale che verrà utilizzato per i ritombamenti sarà lo smarino della perforazione della galleria. Il piano di posa del manufatto è all'interno della Unità Marne di S. Agata. Cautelativamente si sono considerati per i calcoli i seguenti parametri geotecnici medi caratteristici dell'ammasso compattato :

Profondità (da p.c.)	Descrizione stratigrafica	Peso specifico [kN/m <sup>3</sup> ]	Angolo di attrito interno [°]	Coesione [kPa]
riempimento	Smarino di Marne di S. Agata compattato	19.00	30	0.00
terreno vergine	Marne di S. Agata	20.00	30	25.00

Si considera cautelativamente la presenza di acqua all'intorno dell'uscita cunicolo di fuga vista la quota di falda posta a piano campagna.

Con riferimento ai parametri geotecnici per le costanti di Winkler sono stati assunti, in ottemperanza a quanto consigliato da Bowles, valori in funzione dell'approfondimento.

Per quanto riguarda la classificazione sismica dei terreni naturali ed interessati dall'opera sono ascrivibili alla categoria di suolo tipo B.

La categoria topografica scelta è la T1.

### 3. CRITERI DI CALCOLO

#### 3.1. Combinazioni di carico

Le verifiche saranno condotte secondo l'approccio progettuale "Approccio 2", utilizzando i coefficienti parziali riportati nelle tabelle seguenti per i parametri geotecnici e le azioni.

- approccio 2 → (A1+M1+R3) → STR/GEO

Tab. 2.6.I – Coefficienti parziali per le azioni o per l'effetto delle azioni nelle verifiche SLU

		Coefficiente	EQU	A1	A2
		$\gamma_F$			
Carichi permanenti $G_1$	Favorevoli	$\gamma_{G1}$	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali $G_2^{(1)}$	Favorevoli	$\gamma_{G2}$	0,8	0,8	0,8
	Sfavorevoli		1,5	1,5	1,3
Azioni variabili Q	Favorevoli	$\gamma_Q$	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

<sup>(1)</sup> Nel caso in cui l'intensità dei carichi permanenti non strutturali o di una parte di essi (ad es. carichi permanenti portati) sia ben definita in fase di progetto, per detti carichi o per la parte di essi nota si potranno adottare gli stessi coefficienti parziali validi per le azioni permanenti.

Tab. 6.2.II – Coefficienti parziali per i parametri geotecnici del terreno

Parametro	Grandezza alla quale applicare il coefficiente parziale	Coefficiente parziale $\gamma_M$	(M1)	(M2)
Tangente dell'angolo di resistenza al taglio	$\tan \varphi'_k$	$\gamma_{\varphi'}$	1,0	1,25
Coesione efficace	$c'_k$	$\gamma_{c'}$	1,0	1,25
Resistenza non drenata	$c_{uk}$	$\gamma_{cu}$	1,0	1,4
Peso dell'unità di volume	$\gamma_\gamma$	$\gamma_\gamma$	1,0	1,0

Vista la particolarità della struttura si utilizzeranno per le verifiche geotecniche dei terreni di fondazione i coefficienti parziali delle opere di sostegno.

Tab. 6.5.I - Coefficienti parziali  $\gamma_R$  per le verifiche agli stati limite ultimi di muri di sostegno

Verifica	Coefficiente parziale (R3)
Capacità portante della fondazione	$\gamma_R = 1,4$
Scorrimento	$\gamma_R = 1,1$
Ribaltamento	$\gamma_R = 1,15$
Resistenza del terreno a valle	$\gamma_R = 1,4$

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

$$\text{STR e GEO)} \Rightarrow \gamma_{G1} \cdot G_1 + \gamma_{G2} \cdot G_2 + \gamma_{Q1} \cdot Q_{k1} + \sum_i \psi_{0i} \cdot Q_{ki} \Rightarrow (\Phi_d' = \Phi_k')$$

Ai fini delle verifiche degli stati limite di esercizio (fessurazione) si definiscono le seguenti combinazioni:

$$\text{Frequente)} \Rightarrow G_1 + G_2 + \psi_{11} \cdot Q_{k1} + \sum_i \psi_{2i} \cdot Q_{ki}$$

$$\text{Quasi permanente)} \Rightarrow G_1 + G_2 + \psi_{21} \cdot Q_{k1} + \sum_i \psi_{2i} \cdot Q_{ki}$$

Per la condizione sismica, le combinazioni per gli stati limite ultimi da prendere in considerazione sono le seguenti:

$$\text{STR e GEO)} \Rightarrow E + G_1 + G_2 + \sum_i \psi_{2i} \cdot Q_{ki} \Rightarrow (\Phi_d' = \Phi_k')$$

Gli effetti dell'azione sismica saranno valutati tenendo conto delle masse associate ai seguenti carichi gravitazionali:

$$G_1 + G_2 + \sum_i \psi_{2i} \cdot Q_{ki}$$

con il valore di  $\psi_{2i} = 0$ .

### 3.2. Criteri e definizione dell'azione sismica

In ottemperanza al D.M. 17.01.2018 (Aggiornamento delle Norme tecniche per le costruzioni), le verifiche sono state condotte con il metodo semi-probabilistico.

L'effetto dell'azione sismica di progetto sull'opera nel suo complesso, includendo il volume significativo di terreno, la struttura di fondazione, gli elementi strutturali e non, nonché gli impianti, deve rispettare gli stati limite ultimi e di esercizio definiti al § 3.2.1, i cui requisiti di sicurezza sono indicati nel § 7.1 della norma.

Il rispetto degli stati limite si considera conseguito quando:

- nei confronti degli stati limite di esercizio siano rispettate le verifiche relative al solo Stato Limite di Danno;
- nei confronti degli stati limite ultimi siano rispettate le indicazioni progettuali e costruttive riportate nel § 7 della norma e siano soddisfatte le verifiche relative al solo Stato Limite di salvaguardia della Vita.

Per Stato Limite di Danno (SLD) s'intende che l'opera, nel suo complesso, a seguito del terremoto, includendo gli elementi strutturali, quelli non strutturali, le apparecchiature rilevanti alla sua funzione, subisce danni tali da non provocare rischi agli utenti e non compromette significativamente la capacità di resistenza e di rigidità nei confronti delle azioni verticali e orizzontali. Lo stato limite di esercizio comporta la verifica delle tensioni di lavoro, come riportato al § 4.1.2.2.5 della norma.

Per Stato Limite di salvaguardia della Vita (SLV) si intende che l'opera a seguito del terremoto subisce rotture e crolli dei componenti non strutturali e impiantistici e significativi danni di componenti strutturali, cui si associa una perdita significativa di rigidità nei confronti delle azioni orizzontali (creazione di cerniere plastiche secondo il criterio della gerarchia delle resistenze), mantenendo ancora un margine di sicurezza (resistenza e rigidità) nei confronti delle azioni verticali.

Gli stati limite, sia di esercizio sia ultimi, sono individuati riferendosi alle prestazioni che l'opera da realizzarsi deve assolvere durante un evento sismico; nel caso di specie per la funzione che l'opera deve espletare nella sua vita utile, è significativo calcolare lo Stato Limite di Danno (SLD) per l'esercizio e lo Stato Limite di Salvaguardia della Vita (SLV) per lo stato limite ultimo.

In merito alle opere interrato di cui trattasi, nel rispetto del punto § 7.9.2., assimilando l'opera alla categoria delle spalle da ponte, rientrando tra le opere che si muovono con il terreno (§ 7.9.2.1), si può ritenere che la struttura

debba mantenere sotto l'azione sismica il comportamento elastico; queste categorie di opere che si muovono con il terreno non subiscono le amplificazioni dell'accelerazione del suolo.

Per la definizione dell'azione sismica, occorre definire il periodo di riferimento PVR in funzione dello stato limite considerato.

- La vita nominale (VN) dell'opera è stata assunta pari a 50 anni.
- La classe d'uso assunta è la III.

Il periodo di riferimento (VR) per l'azione sismica, data la vita nominale e la classe d'uso vale:

$$VR = VN \cdot C_u = 75 \text{ anni}$$

I valori di probabilità di superamento del periodo di riferimento PVR, cui riferirsi per individuare l'azione sismica agente è:

$$PVR(SLV) = 10\%$$

Il periodo di ritorno dell'azione sismica TR espresso in anni, vale:

$$TR(SLV) = \frac{VR}{\ln(1 - PVR)} = 712 \text{ anni}$$

Dato il valore del periodo di ritorno suddetto, tramite le tabelle riportate nell'Allegato B della norma, è possibile definire i valori di  $a_g$ ,  $F_0$ ,  $T^*_c$ :

$a_g$  → accelerazione orizzontale massima del terreno, espressa come frazione dell'accelerazione di gravità;

$F_0$  → valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

$T^*_c$  → periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale;

$S$  → coefficiente che comprende l'effetto dell'amplificazione stratigrafica ( $S_s$ ) e dell'amplificazione topografica ( $S_t$ );

L'opera ricade in comune di Mondovì (Cn) .

I valori delle caratteristiche sismiche ( $a_g$ ,  $F_0$ ,  $T_c^*$ ) sono stati ricavati per ogni Stato Limite utilizzando il sw *Spettri-NTVver.1.0.3.xls* rilasciato all'uso dal Consiglio Superiore dei lavori Pubblici. Tali valori sono i seguenti:

**Valori dei parametri  $a_g$ ,  $F_0$ ,  $T_c^*$  per i periodi di ritorno  $T_R$  associati a ciascuno SL**

SLATO LIMITE	$T_R$ [anni]	$a_g$ [g]	$F_0$ [-]	$T_c^*$ [s]
SLO	45	0.033	2.559	0.202
SLD	75	0.040	2.592	0.224
SLV	712	0.088	2.646	0.309
SLC	1462	0.107	2.716	0.324

La verifica dell'idoneità del programma, l'utilizzo dei risultati da esso ottenuti sono onere e responsabilità esclusiva dell'utente. Il Consiglio Superiore dei Lavori Pubblici non potrà essere ritenuto responsabile dei danni risultanti dall'utilizzo dello stesso.

Per la determinazione dell'azione di progetto vengono definiti la Categoria del sottosuolo e la Categoria topografica, nonché il fattore di struttura:

- il sottosuolo su cui insiste l'opera è inserito nella categoria B;
- la zona topografica è ascrivibile alla categoria T1;
- il valore del fattore di struttura  $q_0$  è fissato ad 1 in ottemperanza alla Tab.7.9.I della vigente Normativa. Al fattore  $q$  della componente verticale è associato il valore 1.5 come previsto al § 7.3.1 .

In funzione di queste scelte i parametri ed i punti degli spettri di risposta orizzontale SLV e SLD sono i seguenti:

**Parametri e punti dello spettro di risposta orizzontale per lo stato limite: SLV**

**Parametri indipendenti**

STATO LIMITE	SLV
$a_g$	0.088 g
$F_o$	2.648
$T_c$	0.309 s
$S_s$	1.200
$C_c$	1.392
$S_T$	1.000
$q$	1.000

**Parametri dipendenti**

$S$	1.200
$\eta$	1.000
$T_B$	0.143 s
$T_C$	0.429 s
$T_D$	1.952 s

**Espressioni dei parametri dipendenti**

$$S = S_s \cdot S_T \quad (\text{NTC-08 Eq. 3.2.5})$$

$$\eta = \sqrt{10/(5+\xi)} \geq 0,55; \quad \eta = 1/q \quad (\text{NTC-08 Eq. 3.2.6; §. 3.2.3.5})$$

$$T_B = T_C / 3 \quad (\text{NTC-07 Eq. 3.2.8})$$

$$T_C = C_c \cdot T_c^* \quad (\text{NTC-07 Eq. 3.2.7})$$

$$T_D = 4,0 \cdot a_g / g + 1,6 \quad (\text{NTC-07 Eq. 3.2.9})$$

**Espressioni dello spettro di risposta (NTC-08 Eq. 3.2.4)**

$$0 \leq T < T_B \quad \left| \quad S_o(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left[ \frac{T}{T_B} + \frac{1}{\eta \cdot F_o} \left( 1 - \frac{T}{T_B} \right) \right] \right.$$

$$T_B \leq T < T_C \quad \left| \quad S_o(T) = a_g \cdot S \cdot \eta \cdot F_o \right.$$

$$T_C \leq T < T_D \quad \left| \quad S_o(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left( \frac{T_C}{T} \right) \right.$$

$$T_D \leq T \quad \left| \quad S_o(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left( \frac{T_C T_D}{T^2} \right) \right.$$

Lo spettro di progetto  $S_o(T)$  per le verifiche agli Stati Limite Ultimi è ottenuto dalle espressioni dello spettro elastico  $S_e(T)$  sostituendo  $\eta$  con  $1/q$ , dove  $q$  è il fattore di struttura. (NTC-08 § 3.2.3.5)

**Punti dello spettro di risposta**

	T [s]	Se [g]
	0.000	0.106
$T_B \leftarrow$	0.143	0.279
$T_C \leftarrow$	0.429	0.279
	0.502	0.239
	0.574	0.209
	0.647	0.185
	0.719	0.167
	0.792	0.151
	0.864	0.139
	0.937	0.128
	1.009	0.119
	1.082	0.111
	1.154	0.104
	1.227	0.098
	1.299	0.092
	1.372	0.087
	1.444	0.083
	1.517	0.079
	1.589	0.075
	1.662	0.072
	1.734	0.069
	1.807	0.066
	1.879	0.064
$T_D \leftarrow$	1.952	0.061
	2.049	0.056
	2.147	0.051
	2.244	0.046
	2.342	0.043
	2.440	0.039
	2.537	0.036
	2.635	0.034
	2.732	0.031
	2.830	0.029
	2.927	0.027
	3.025	0.026
	3.122	0.024
	3.220	0.023
	3.317	0.021
	3.415	0.020
	3.512	0.019
	3.610	0.018
	3.707	0.018
	3.805	0.018
	3.902	0.018
	4.000	0.018

**Parametri e punti dello spettro di risposta orizzontale per lo stato limite: SLD**

**Parametri indipendenti**

STATO LIMITE	SLD
$a_g$	0.040 g
$F_o$	2.592
$T_c$	0.224 s
$S_s$	1.200
$C_c$	1.484
$S_T$	1.000
$q$	1.000

**Parametri dipendenti**

$S$	1.200
$\eta$	1.000
$T_B$	0.111 s
$T_C$	0.332 s
$T_D$	1.761 s

**Espressioni dei parametri dipendenti**

$$S = S_s \cdot S_T \quad (\text{NTC-08 Eq. 3.2.5})$$

$$\eta = \sqrt{10/(5+\xi)} \geq 0,55; \eta = 1/q \quad (\text{NTC-08 Eq. 3.2.6; §. 3.2.3.5})$$

$$T_B = T_C / 3 \quad (\text{NTC-07 Eq. 3.2.8})$$

$$T_C = C_c \cdot T_c^* \quad (\text{NTC-07 Eq. 3.2.7})$$

$$T_D = 4,0 \cdot a_g / g + 1,6 \quad (\text{NTC-07 Eq. 3.2.9})$$

**Espressioni dello spettro di risposta (NTC-08 Eq. 3.2.4)**

$$0 \leq T < T_B \quad \left| \quad S_d(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left[ \frac{T}{T_B} + \frac{1}{\eta \cdot F_o} \left( 1 - \frac{T}{T_B} \right) \right] \right.$$

$$T_B \leq T < T_C \quad \left| \quad S_d(T) = a_g \cdot S \cdot \eta \cdot F_o \right.$$

$$T_C \leq T < T_D \quad \left| \quad S_d(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left( \frac{T_C}{T} \right) \right.$$

$$T_D \leq T \quad \left| \quad S_d(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left( \frac{T_C T_D}{T^2} \right) \right.$$

Lo spettro di progetto  $S_d(T)$  per le verifiche agli Stati Limite Ultimi è ottenuto dalle espressioni dello spettro elastico  $S_e(T)$  sostituendo  $\eta$  con  $1/q$ , dove  $q$  è il fattore di struttura. (NTC-08 § 3.2.3.5)

**Punti dello spettro di risposta**

	T [s]	Se [g]
	0.000	0.048
$T_B \leftarrow$	0.111	0.126
$T_C \leftarrow$	0.332	0.126
	0.400	0.104
	0.468	0.089
	0.536	0.078
	0.604	0.069
	0.672	0.062
	0.740	0.056
	0.808	0.052
	0.876	0.048
	0.945	0.044
	1.013	0.041
	1.081	0.039
	1.149	0.036
	1.217	0.034
	1.285	0.032
	1.353	0.031
	1.421	0.029
	1.489	0.028
	1.557	0.027
	1.625	0.026
	1.693	0.025
$T_D \leftarrow$	1.761	0.024
	1.868	0.021
	1.975	0.019
	2.081	0.017
	2.188	0.015
	2.294	0.014
	2.401	0.013
	2.508	0.012
	2.614	0.011
	2.721	0.010
	2.827	0.009
	2.934	0.009
	3.041	0.008
	3.147	0.007
	3.254	0.007
	3.360	0.006
	3.467	0.006
	3.574	0.006
	3.680	0.005
	3.787	0.005
	3.893	0.005
	4.000	0.005

Il calcolo viene eseguito con il metodo pseudostatico. In queste condizioni l'azione sismica è rappresentata da una forza statica equivalente pari al prodotto delle forze di gravità per un opportuno coefficiente sismico.



Nelle verifiche allo Stato Limite Ultimo i valori dei coefficienti sismici orizzontali  $k_h$  e verticale  $k_v$  possono essere valutati mediante le espressioni:

$$k_h = \beta_m \cdot \frac{a_{\max}}{g}$$

$$k_v = \pm 0.5 \cdot k_h$$

dove

$a_{\max}$  = accelerazione orizzontale massima attesa al sito;

$g$  = accelerazione di gravità.

Il valore del coefficiente di amplificazione stratigrafica risulta:  $S_s(\text{SLV}) = 1.20$

L'accelerazione massima è valutata con la relazione:

$$a_{\max}(\text{SLV}) = S_s \cdot \frac{a_g}{g} = 0.106 g$$

Assumendo che la struttura in esame non ammetta spostamenti relativi rispetto al terreno, si ottiene  $\beta_m = 1$ .

I due coefficienti sismici valgono:

$$(\text{SLV}) \quad k_h = 0.106 \quad \text{e} \quad k_v = 0.053$$

$$(\text{SLD}) \quad k_h = 0.048 \quad \text{e} \quad k_v = 0.024$$

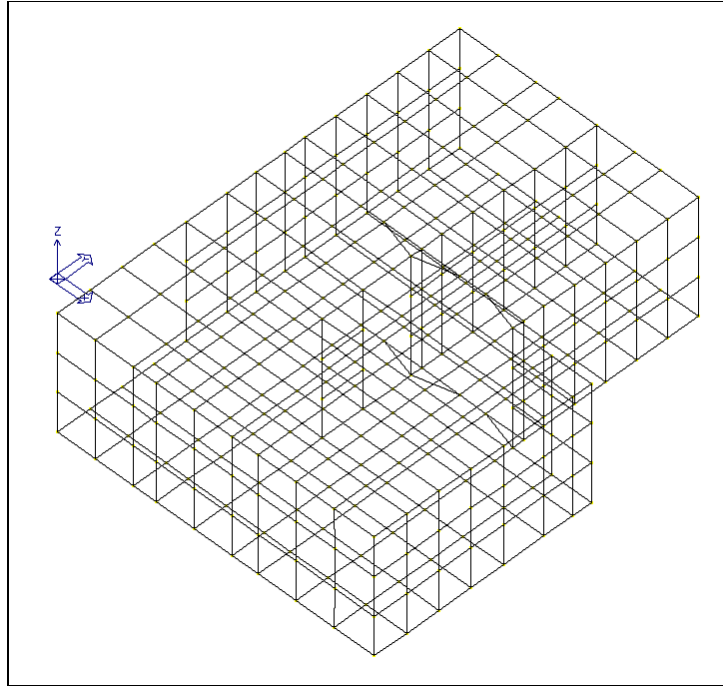
Per tener conto dell'incremento di spinta del terreno dovuta al sisma su strutture rigide si fa riferimento all'EC8, in cui l'incremento di spinta sismica  $\Delta P$  per la condizione a riposo vale:

$$\Delta P_d = S \cdot \frac{a_g}{g} \cdot \gamma \cdot h_{tot}^2$$

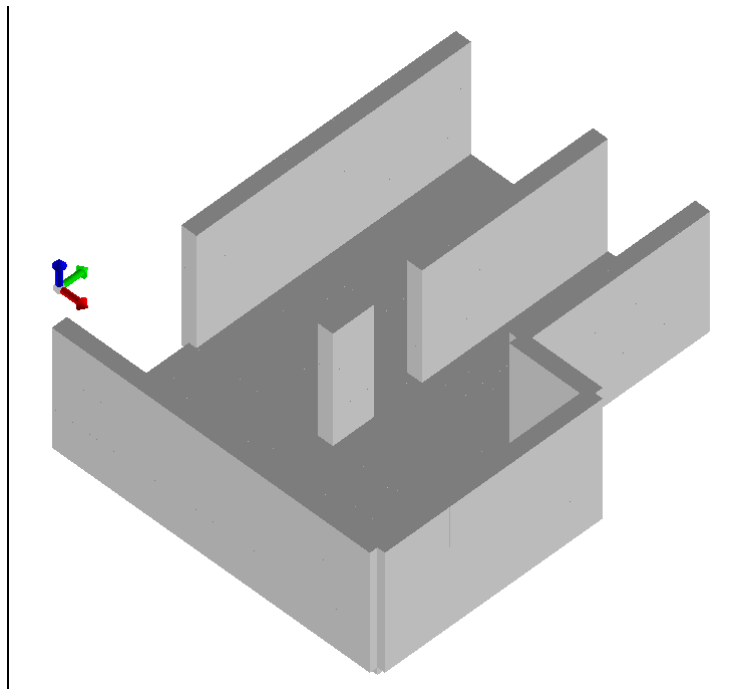
La risultante di tale incremento di spinta viene applicata ad metà del piedritto.

#### 4. SCHEMI DI CALCOLO

Per il manufatto il modello di calcolo utilizzato è tridimensionale come illustrato nelle figure seguenti.



*Modello di calcolo*



*Vista solida senza soletta superiore*

Con riferimento alla geometria sono stati considerati i seguenti carichi:

- carico permanente da peso proprio degli elementi strutturali;
- carico permanente portato;
- carico variabile da traffico stradale;
- spinta a riposo del terreno;
- spinta della falda;
- sottospinta idraulica;
- spinta a riposo del sovraccarico stradale.

Il terreno di fondazione è stato schematizzato alla Winkler, adottando come coefficiente di sottofondo  $k = 3.7 \text{ kg/cm}^3$  relativo all'approfondimento originario di -10.0 m dal p.c. .

## VALUTAZIONE COSTANTE DI SOTTOFONDO SECONDO BOWLES

MONDOVI' - Uscite cunicolo

Z=	10.00	(m)		
$\gamma$	20.00	(kN/m3)		
$\phi'$	30	°		
c	25.00	(kN/m2)		
n	0.5			
Nc	30.14			
N $\gamma$	18.40			
Nq	22.40			
$\Phi$	0.5			
<b>A=</b>	<b>937.502</b>			
<b>B=</b>	<b>448.0498</b>			
<b>C=</b>	<b>25</b>	(m <sup>-1</sup> )	ced. Ultimo	0.04

Kh=	29.429	(MN/m3)	2999.949	(t/m3)
-----	--------	---------	----------	--------

Kh	3.0	(kg/cm3)
Kv	3.7	(kg/cm3)

Per le verifiche allo stato limite ultimo di tipo strutturale (STR) i valori di spinta del terreno e del sovraccarico sono stati calcolati sulla base dei coefficienti caratteristici del terreno e amplificati mediante i coefficienti A1. Le resistenze sono state divise per i coefficienti R1.

In condizioni sismiche, è stato considerato il sisma orizzontale e verticale. Nel primo caso sono state prese in considerazione entrambe le direzioni di (+x, -y). Gli effetti sulla struttura sono stati valutati in ottemperanza al paragrafo 7.3.5 della Normativa con le ricursive rotazioni dei coefficienti moltiplicativi dell'espressione 7.3.15:

$$E = 1,00 \times E_x + 0,30 \times E_y + 0,30 \times E_z$$

## 5. PROGRAMMA DI CALCOLO UTILIZZATO

### 5.1. Pro\_Sap

Il calcolo delle uscite cunicolo di fuga viene condotto con il programma PRO\_SAP RY2019b ver.19.5.0 (prodotto dalla 2S.I. Software e Servizi per l'Ingegneria S.r.l. via Garibaldi, 90 44121 Ferrara).

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

- Elemento tipo PLATE;

Il codice di calcolo adottato è ALGOR SUPERSAP prodotto dalla ALGOR INTERACTIVE SYSTEMS, Inc. Pittsburgh, PA, USA.

Il programma SUPERSAP applica il metodo degli elementi finiti a strutture di forma qualunque, diversamente caricate e vincolate, nell'ambito del comportamento lineare delle stesse.

Si sottolinea che il solutore ALGOR SUPERSAP è stato sottoposto, con esito positivo e relativa certificazione, ai test NAFEMS (test di confronto della National Agency for Finite Element Methods and Standards in Inghilterra).

Si sottolinea, inoltre, che solutore ALGOR SUPERSAP è soggetto ad attività di controllo ai sensi della QA (quality assurance), condizione essenziale per l'utilizzo dei codici di calcolo nell'ambito della progettazione nucleare ed off-shore.

Le verifiche delle sezioni delle strutture modellate con elementi tipo beam sono condotte, in ottemperanza alla vigente normativa, con il programma PRO\_VLIM (prodotto dalla 2S.I. Software e Servizi per l'Ingegneria S.r.l. via Garibaldi, 90 44121 Ferrara).

### 5.2. Modellazione adottata

Per la mesh di calcolo è stato assunto lo schema statico tridimensionale alle figure in capitolo 4, composto da nodi e plate elements.

L'analisi strutturale è condotta con il metodo degli spostamenti per la valutazione dello stato tensodeformativo indotto da carichi statici.

Le caratteristiche geometriche sono le più prossime a quelle reali e per una migliore visione si rimanda agli elaborati grafici.

## 6. ANALISI DEI CARICHI

Nel presente paragrafo si descrivono i carichi elementari da assumere per le verifiche di resistenza in esercizio ed in presenza dell'evento sismico.

Vengono prese in considerazione 16 Condizioni Elementari di carico (CDC1÷CDC16), di seguito descritte, le quali saranno opportunamente combinate secondo quanto previsto dalla normativa vigente.

I principali parametri geometrici risultano essere i seguenti:

- spessore totale medio della sovrastruttura stradale superiore:  $H_s = 0.50$  m;
- spessore della soletta superiore:  $S_s = 0.35$  m;
- spessore dei piedritti:  $S_p = 0.35$  m;
- spessore della fondazione:  $S_f = 0.35$  m.

Per i materiali si assumono i seguenti pesi specifici:

- calcestruzzo armato: 25.0 kN/m<sup>3</sup>;
- sovrastruttura stradale: 20.0 kN/m<sup>3</sup>;

Si considerano, in particolare, i seguenti carichi, tipologicamente differenziati per necessità del programma di calcolo.

### 6.1. Peso proprio e permanenti portati

Per il peso proprio il programma esegue autonomamente i calcoli in base alle geometrie segnalate. Tali carichi vengono considerati nella Condizione Elementare CDC1.

Per i permanenti portati si utilizzano i seguenti carichi che rappresentano il peso della sovrastruttura stradale superiore esclusi i carichi da traffico.

**Tipo carico di pressione uniforme su piastra**

Id	Tipo	pressione
		kN/ m2
7	ROAD STRUCTURE	10.00

Tali carichi vengono considerati nelle Condizioni Elementari CDC2.

## 6.2. Spinta del terreno

Il reinterro a ridosso del locale uscite cunicolo di fuga è caratterizzato dai seguenti parametri geotecnici:

Profondità (da p.c.)	Descrizione stratigrafica	Peso specifico [kN/m <sup>3</sup> ]	Angolo di attrito interno [°]	Coesione [kPa]
riempimento	Smarino di Marne di S. Agata compattato	19.00	30	0.00

da cui risulta un coefficiente di spinta a riposo  $k_0 = 0.50$ .

Tali spinte vengono considerate nelle seguenti Condizioni Elementari:

- CDC3: spinta a riposo sulle pareti esterne;

**Tipo carico di pressione variabile su piastra**

Id	Tipo	pressione	quota	pressione	quota
		kN/ m2	m	kN/ m2	m
1	EARTH LOAD AT REST	0.0	0.0	-190.00	-20.00

## 6.3. Spinta del sovraccarico stradale sullo scatolare

Si considera come sovraccarico agente su tutte le pareti esterne quello in condizioni  $k_0$  derivante dalla sovrastruttura stradale . Il valore di tale carico è:

**Tipo carico di pressione uniforme su piastra**

Id	Tipo	pressione
		kN/ m2
2	TRAFFIC LOAD AT K0	-10.00

Tali spinte vengono considerate nelle seguenti Condizioni Elementari:

- carico orizzontale da sovraccarico stradale agente sulle pareti esterne: CDC4;

#### 6.4. Spinta dell'acqua

La falda di progetto a ridosso dello scatolare è stata cautelativamente valutata ad una profondità di piano campagna.

I contributi di carico che ne derivano sono:

**Tipo carico di pressione variabile su piastra**

Id	Tipo	pressione	quota	pressione	quota
		kN/ m2	m	kN/ m2	m
5	WATER	0.0	0.0	-200.00	-20.00

Tali spinte vengono considerate nelle seguenti Condizioni Elementari:

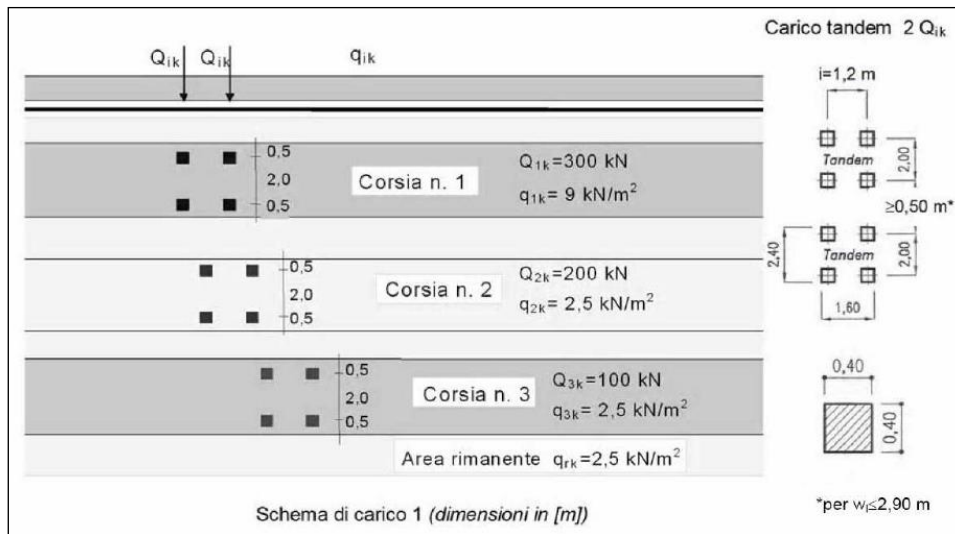
- spinta contro le pareti esterne e sottospinta sulla soletta di fondazione (CDC6);

#### 6.5. Carichi mobili verticali sulla soletta superiore

I carichi mobili verticali agenti sulla soletta superiore sono di tipo stradale.

Per quanto riguarda il carico mobile stradale, il locale uscite cunicolo di fuga dovrà sostenere traffico veicolare che si potrà sviluppare su due carreggiate. Visto che la strada corrisponde ad una sezione C1 si è utilizzato come schema di carico lo Schema di carico 1 da Normativa utilizzando sia il carico di progetto  $Q_{1,k}$ , ossia il mezzo convenzionale da 600 kN a due assi da 300 kN ognuno (carico tandem), sia il carico  $q_{1,k}$  secondo lo schema prescritto:





Tale carico viene posizionato parallelamente all'asse della strada e considerato ripartito, in direzione sia longitudinale che trasversale, con un angolo di diffusione di 45° sino al piano medio della soletta superiore. Vista la ridotta dimensione planimetrica del locale uscita cunicolo di fuga e la diffusione del carico fra sovrastruttura e soletta le aree caricate corrispondono alla quasi totalità della dimensione di ogni camera della soletta.

**Tipo carico di pressione uniforme su piastra**

Id	Tipo	pressione
		kN/ m2
8	TRAFFIC Q1	54.24
9	TRAFFIC q1	9.00

Il carico Q1 viene considerato posizionato diversamente per cogliere il massimo di sollecitazione in tre condizioni differenti:

- disposizione che massimizza il taglio in soletta (CDC5);
- disposizione che massimizza il momento in soletta nella prima camera (CDC12);
- disposizione che massimizza il momento in soletta nella prima camera (CDC13).

## 6.6. Azione sismica

L'azione sismica si esplica in diverse Condizioni Elementari:

- CDC7 / CDC8: sisma SLV terreno;
- CDC9 / CDC10: sisma orizzontale SLV struttura;
- CDC11: sisma verticale SLV struttura;
- CDC14 / CDC15: sisma orizzontale SLD struttura;
- CDC16: sisma verticale SLD struttura;

Al programma viene lasciato il calcolo delle forze inerziali della massa della secondo la relazione riportata nei paragrafi precedenti.

Nel caso di sisma orizzontale sia in direzione x che y vi è da considerare la spinta derivante dall'oscillazione del cuneo di terreno spingente. Per strutture come quella in esame, in cui non sono ammessi spostamenti relativi opera/terreno, si fa riferimento all'EC8, in cui l'incremento di spinta sismica  $\Delta P$  per la condizione a riposo:

$$\Delta P = S \cdot \frac{a_g}{g} \cdot \gamma \cdot h_{tot}^2$$

applicabile a  $h/2$  del piedritto.

Per il modello tale spinta viene sostituita dalla pressione equivalente applicata a tutto il piedritto:

**Tipo** carico di pressione uniforme su piastra

Id	Tipo	pressione
		kN/ m2
15	SEISMIC EARTH LOAD	-6.55

La Condizione Elementare di riferimento è la CDC7 / CDC8.

## 6.7. Azioni termiche

Visto che la struttura è interrata non si considera soggetta a variazioni termiche.

## 7. CALCOLO DELLE SOLLECITAZIONI

Per le verifiche agli Stati Limite Ultimi si adottano i valori dei coefficienti parziali delle azioni riportati in Tab. 5.2.V ed i coefficienti di combinazione di Tab. 5.2.VI.

Per le verifiche agli stati limite d'esercizio si adottano i valori dei coefficienti parziali in Tab. 5.2.VI.

Le condizioni elementari di carico considerate sono di seguito riassunte:

CDC	Tipo	Sigla Id	Note
1	Ggk	Ggk (SELF WEIGHT)	
2	Gk	G2k (DEAD LOAD)	Azioni applicate: D3 :da 4 a 6 Azione : ROAD STRUCTURE D3 :da 19 a 30 Azione : ROAD STRUCTURE D3 :da 121 a 165 Azione : ROAD STRUCTURE D3 :da 187 a 234 Azione : ROAD STRUCTURE
3	Gk	CDC=G1k (EARTH LOAD) .....	Azioni applicate: D3 :da 7 a 18 Azione : EARTH LOAD AT REST D3 :da 31 a 51 Azione : EARTH LOAD AT REST D3 :da 55 a 72 Azione : EARTH LOAD AT REST D3 :da 91 a 111 Azione : EARTH LOAD AT REST D3 :da 115 a 120 Azione : EARTH LOAD AT REST D3 :da 340 a 342 Azione : EARTH LOAD AT REST
4	Gk	CDC=G1k (TRAFFIC LOAD ON THE WALL AT K0) .....	Azioni applicate: D3 :da 7 a 18 Azione : TRAFFIC LOAD AT K0 D3 :da 31 a 51 Azione : TRAFFIC LOAD AT K0 D3 :da 55 a 72 Azione : TRAFFIC LOAD AT K0 D3 :da 91 a 111 Azione : TRAFFIC LOAD AT K0 D3 :da 115 a 120 Azione : TRAFFIC LOAD AT K0 D3 :da 340 a 342 Azione : TRAFFIC LOAD AT K0
5	Qk	CDC=Qk (TRAFFIC LOAD ON THE UPPER SLAB Vmax) .....	Azioni applicate: D3 :da 4 a 6 Azione : TRAFFIC q1 D3 :da 19 a 30 Azione : TRAFFIC q1 D3 :da 121 a 134 Azione : TRAFFIC Q1 D3 :da 135 a 165 Azione : TRAFFIC q1 D3 :da 187 a 192 Azione : TRAFFIC q1
6	Gk	G1k (WATER)	Azioni applicate: D3 :da 7 a 18 Azione : WATER D3 :da 31 a 51 Azione : WATER D3 :da 55 a 72 Azione : WATER D3 :da 88 a 111 Azione : WATER D3 :da 115 a 120 Azione : WATER D3 :da 235 a 342 Azione : WATER
7	Qk	Qk (SISMIC X EARTH LOAD)	Azioni applicate: D3 :da 46 a 51 Azione : SEISMIC EARTH LOAD D3 :da 91 a 108 Azione : SEISMIC EARTH LOAD D3 :da 340 a 342 Azione : SEISMIC EARTH LOAD
8	Qk	Qk (SISMIC Y EARTH LOAD)	Azioni applicate: D3 :da 13 a 18 Azione : SEISMIC EARTH LOAD D3 :da 31 a 45 Azione : SEISMIC EARTH LOAD D3 :da 70 a 72 Azione : SEISMIC EARTH LOAD D3 :da 109 a 111 Azione : SEISMIC EARTH LOAD
9	Esk	Es (EQUIVALENT STATIC ORIZZONTAL SLU) CDC=Es (statico SLU) alfa=90.00 (ecc. 0)	partecipazione:1.00 per 1 Ggk (SELF WEIGHT) partecipazione:1.00 per 2 G2k (DEAD LOAD)
10	Esk	Es (STATIC EQUIVALENT ORIZZONTAL SLU) alfa=0.0 (ecc. 0)	come precedente CDC sismico
11	Esk	Es (EQUIVALENT STATIC VERTICALE SLU)	come precedente CDC sismico
12	Qk	CDC=Qk (TRAFFIC LOAD ON THE UPPER SLAB Mmax 1) .....	Azioni applicate: D3 :da 4 a 6 Azione : TRAFFIC q1

CDC	Tipo	Sigla Id	Note
			D3 :da 19 a 30 Azione : TRAFFIC q1
			D3 :da 121 a 134 Azione : TRAFFIC q1
			D3 :da 135 a 150 Azione : TRAFFIC Q1
			D3 :da 151 a 165 Azione : TRAFFIC q1
			D3 :da 187 a 192 Azione : TRAFFIC q1
13	Qk	CDC=Qk (TRAFFIC LOAD ON THE UPPER SLAB Mmax 2) .....	Azioni applicate:
			D3 :da 4 a 6 Azione : TRAFFIC q1
			D3 :da 19 a 30 Azione : TRAFFIC q1
			D3 :da 121 a 150 Azione : TRAFFIC q1
			D3 :da 151 a 165 Azione : TRAFFIC Q1
			D3 :da 187 a 192 Azione : TRAFFIC q1
14	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. 0)	come precedente CDC sismico
15	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. 0)	come precedente CDC sismico
16	Esk	CDC=Es (statico SLD) verticale	come precedente CDC sismico

I carichi caratteristici sopra elencati (CDC), al fine di ottenere le sollecitazioni di progetto per effettuare le successive verifiche, sono opportunamente combinati fra loro.

Al programma di calcolo devono essere definite le condizioni e le combinazioni elementari di calcolo; per quanto riguarda le prime sono quelle sopra esposte, mentre per le combinazioni (CMB) sono quelle riportate nella tabella seguente.

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 1 : NORMAL MAX CMB	
2	SLU	Comb. SLU A1 2 : REFILL LEFT WALL NO TRAFFIC	
3	SLU	Comb. SLU A1 3 : REFILL RIGHT WALL NO TRAFFIC	
4	SLU	Comb. SLU A1 4 : NORMAL MIN CMB	
5	SLU (Terr. A2)	Comb. SLU A2 5 : SOIL TEST	
6	SLU	Comb. SLU A1 (SLV sism.) 6 : SISMA X	
7	SLU	Comb. SLU A1 (SLV sism.) 7 : SISMA Y	
8	SLU	Comb. SLU A1 (SLV sism.) 8 : SISMA V	
9	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 9 : SISMA X	
10	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 10 : SISMA Y	
11	SLU (Terr. A2)	Comb. SLU A2 (SLV sism.) 11 : SISMA V	
12	SLE(p)	Comb. SLE (perm) 12	
13	SLE(f)	Comb. SLE (freq) 13	
14	SLE(f)	Comb. SLE(freq.) 14	
15	SLE(f)	Comb. SLE(freq.) 15	
16	SLU(acc.)	Comb. SLU(fire)	
17	SLU	Comb. SLU A1 17	
18	SLU	Comb. SLU A1 18	
19	SLD(sis)	Comb. SLE (SLD Danno sism) 8	
20	SLD(sis)	Comb. SLE (SLD Danno sism) 10	
21	SLD(sis)	Comb. SLE (SLD Danno sism) 12	

Nelle precedenti combinazioni di calcolo (CMB) le condizioni elementari di carico (CDE) sono combinate tra loro in modo da generare le massime sollecitazioni per lo SLU e SLE, come da seguente prospetto.

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.35	1.50	1.35	1.35	1.35	1.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
2	1.00	1.00	1.00	1.00	1.35	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
3	1.35	1.50	1.35	1.35	0.0	1.35	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0
	0.0	0.0												
4	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0
	0.0	0.0												
5	1.35	1.50	1.35	1.35	0.0	1.35	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0
	0.0	0.0												
6	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0
	0.0	0.0												
7	1.00	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
8	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0
	0.0	0.0												
9	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
	0.0	0.0												
10	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-1.00	-1.00	-0.30	-0.30	0.0	0.0	0.0
	0.0	0.0												
11	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-1.00	-1.00	-0.30	0.30	0.0	0.0	0.0
	0.0	0.0												
12	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-1.00	-1.00	0.30	-0.30	0.0	0.0	0.0
	0.0	0.0												
13	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-1.00	-1.00	0.30	0.30	0.0	0.0	0.0
	0.0	0.0												
14	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	1.00	1.00	-0.30	-0.30	0.0	0.0	0.0
	0.0	0.0												
15	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	1.00	1.00	-0.30	0.30	0.0	0.0	0.0
	0.0	0.0												
16	1.00	1.00	1.00	1.00	0.0	1.00	0.30	1.00	1.00	0.30	-0.30	0.0	0.0	0.0
	0.0	0.0												
17	1.00	1.00	1.00	1.00	0.0	1.00	0.30	1.00	1.00	0.30	0.30	0.0	0.0	0.0
	0.0	0.0												
18	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	-0.30	-0.30	-1.00	-0.30	0.0	0.0	0.0
	0.0	0.0												
19	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	-0.30	-0.30	-1.00	0.30	0.0	0.0	0.0
	0.0	0.0												
20	1.00	1.00	1.00	1.00	0.0	1.00	1.00	-0.30	-0.30	1.00	-0.30	0.0	0.0	0.0
	0.0	0.0												
21	1.00	1.00	1.00	1.00	0.0	1.00	1.00	-0.30	-0.30	1.00	0.30	0.0	0.0	0.0
	0.0	0.0												
22	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	0.30	0.30	-1.00	-0.30	0.0	0.0	0.0
	0.0	0.0												
23	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	0.30	0.30	-1.00	0.30	0.0	0.0	0.0
	0.0	0.0												
24	1.00	1.00	1.00	1.00	0.0	1.00	1.00	0.30	0.30	1.00	-0.30	0.0	0.0	0.0
	0.0	0.0												
25	1.00	1.00	1.00	1.00	0.0	1.00	1.00	0.30	0.30	1.00	0.30	0.0	0.0	0.0
	0.0	0.0												
26	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-0.30	-0.30	-0.30	-1.00	0.0	0.0	0.0
	0.0	0.0												
27	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-0.30	-0.30	-0.30	1.00	0.0	0.0	0.0
	0.0	0.0												
28	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	0.30	-0.30	0.30	-1.00	0.0	0.0	0.0
	0.0	0.0												
29	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	0.30	-0.30	0.30	1.00	0.0	0.0	0.0
	0.0	0.0												
30	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-0.30	0.30	-0.30	-1.00	0.0	0.0	0.0
	0.0	0.0												
31	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-0.30	0.30	-0.30	1.00	0.0	0.0	0.0
	0.0	0.0												
32	1.00	1.00	1.00	1.00	0.0	1.00	0.30	0.30	0.30	0.30	-1.00	0.0	0.0	0.0
	0.0	0.0												
33	1.00	1.00	1.00	1.00	0.0	1.00	0.30	0.30	0.30	0.30	1.00	0.0	0.0	0.0

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	0.0	0.0												
34	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-1.00
	-0.30	-0.30												
35	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-1.00
	-0.30	0.30												
36	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-1.00
	0.30	-0.30												
37	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-1.00
	0.30	0.30												
38	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00
	-0.30	-0.30												
39	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00
	-0.30	0.30												
40	1.00	1.00	1.00	1.00	0.0	1.00	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00
	0.30	-0.30												
41	1.00	1.00	1.00	1.00	0.0	1.00	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00
	0.30	0.30												
42	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	-1.00	-0.30												
43	1.00	1.00	1.00	1.00	0.0	1.00	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	-1.00	0.30												
44	1.00	1.00	1.00	1.00	0.0	1.00	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00	-0.30												
45	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00	0.30												
46	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	-1.00	-0.30												
47	1.00	1.00	1.00	1.00	0.0	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	-1.00	0.30												
48	1.00	1.00	1.00	1.00	0.0	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00	-0.30												
49	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00	0.30												
50	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	-0.30	-1.00												
51	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	-0.30	1.00												
52	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	0.30	-1.00												
53	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	0.30	1.00												
54	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
	-0.30	-1.00												
55	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
	-0.30	1.00												
56	1.00	1.00	1.00	1.00	0.0	1.00	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	0.30	-1.00												
57	1.00	1.00	1.00	1.00	0.0	1.00	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	0.30	1.00												
58	1.00	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
59	1.00	1.00	1.00	1.00	0.75	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
60	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0
	0.0	0.0												
61	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0
	0.0	0.0												
62	1.00	1.00	1.00	1.00	0.75	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
63	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0
	0.0	0.0												
64	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0
	0.0	0.0												
65	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												

I valori numerici riportati nelle colonne della tabella precedente indicano il coefficiente moltiplicativo con il quale la Combinazione Elementare è considerata.

## 8. VERIFICHE DI RESISTENZA ED A FESSURAZIONE

I calcoli di verifica sono effettuati con il metodo degli Stati Limite, applicando il combinato D.M. 17.01.2018 con l'UNI EN 1992 (Eurocodice 2).

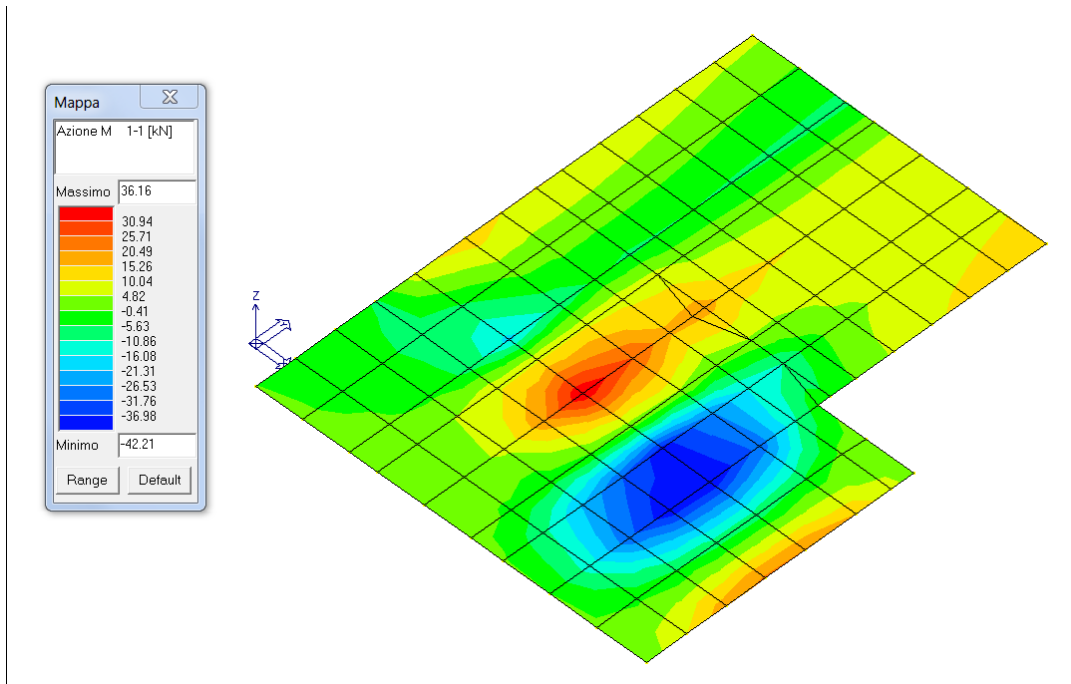
Le verifiche a fessurazione sono state condotte per elemento strutturale distinto considerando:

- verifica di formazione delle fessure: in sezione interamente reagente e per le sollecitazioni di esercizio si determina la massima trazione nel calcestruzzo  $\sigma_{ct}$ , confrontandola con la resistenza caratteristica a trazione per flessione  $f_{ctk}$ ; se risulta  $\sigma_{ct} < f_{ctk}$  la verifica è soddisfatta, altrimenti si procede alla verifica di apertura delle fessure;
- verifica di apertura delle fessure: l'apertura convenzionale delle fessure è calcolata con le modalità indicate nell'EC2, come richiesto dal D.M. 14.01.2008, e valutata con le sollecitazioni relative alle Combinazioni FR o QP della normativa vigente sui ponti stradali. La massima apertura ammissibile risulta:
  - combinazione di carico Frequente:  $w_k \leq w_3 = 0.30$  mm;
  - combinazione di carico quasi permanente:  $w_k \leq w_2 = 0.20$  mm.
- verifica delle tensioni di esercizio: si eseguono per la condizione di carico Quasi Permanente e si verifica che le massime tensioni presenti nel calcestruzzo siano inferiori a  $\sigma_c < 0.45 f_{ck}$ .

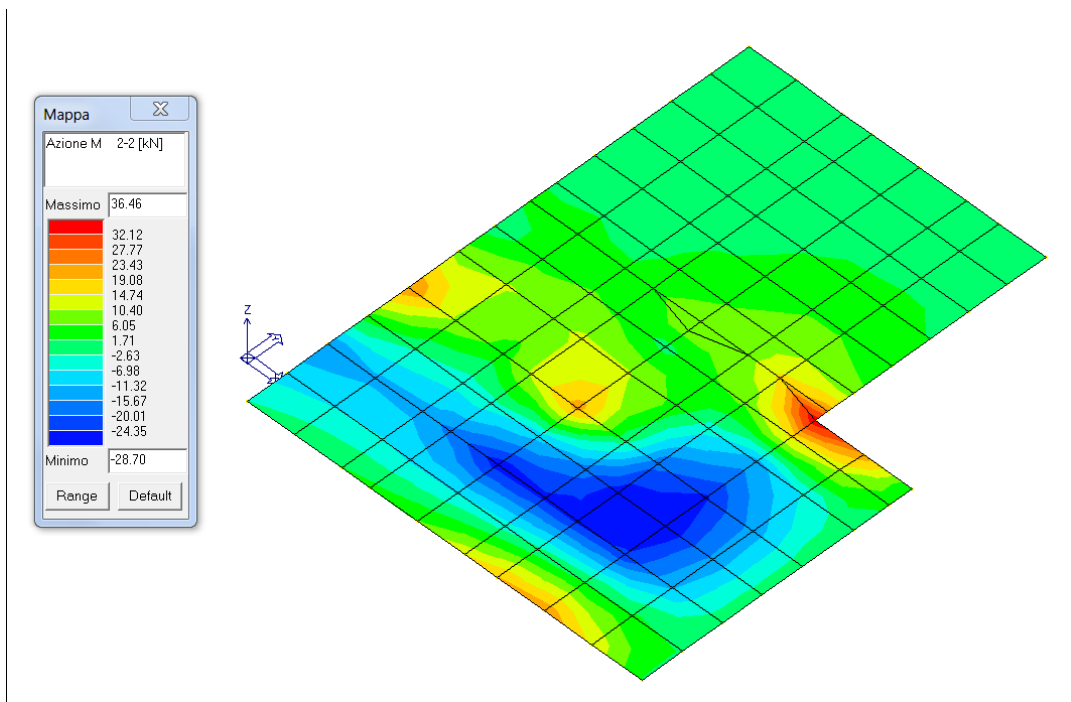
### 8.1. Soletta superiore

Le sollecitazioni massime di calcolo sono:





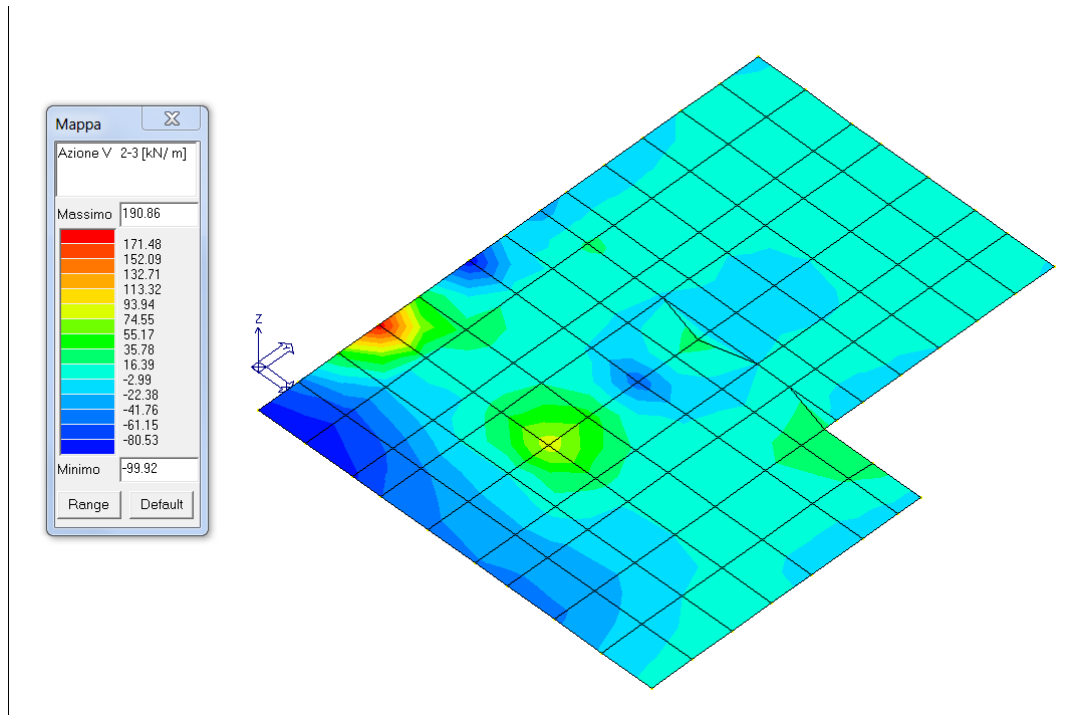
Soletta superiore: M 1-1 max in CMB5



Soletta superiore: M 2-2 max in CMB5

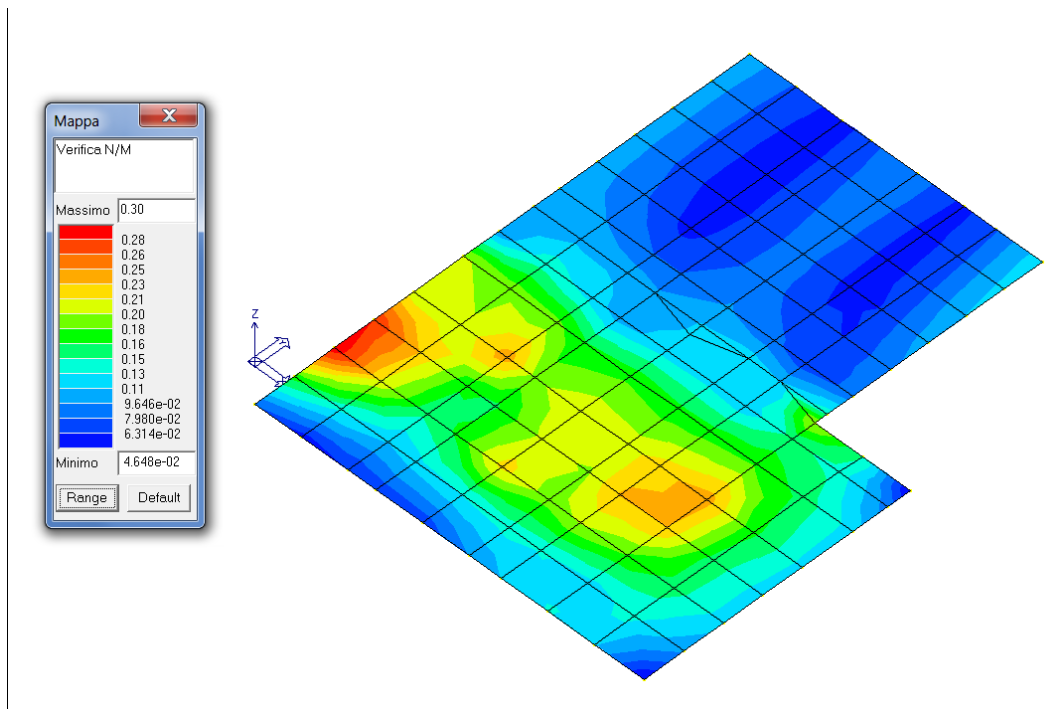
Il progetto prevede una armatura minima, sia all'estradosso che all'intradosso, di  $16.96 \text{ cm}^2/\text{m}$  nelle due direzioni perpendicolari.

Per quanto riguarda le azioni di taglio esse sono le seguenti:

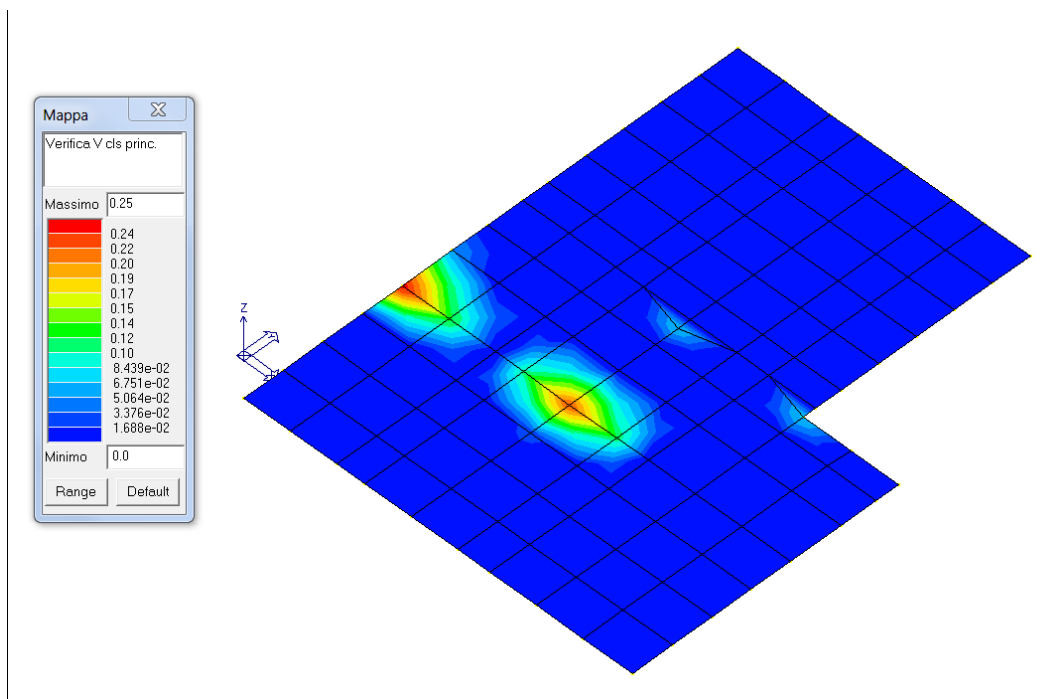


Soletta superiore: V 2-3 max in CMB1

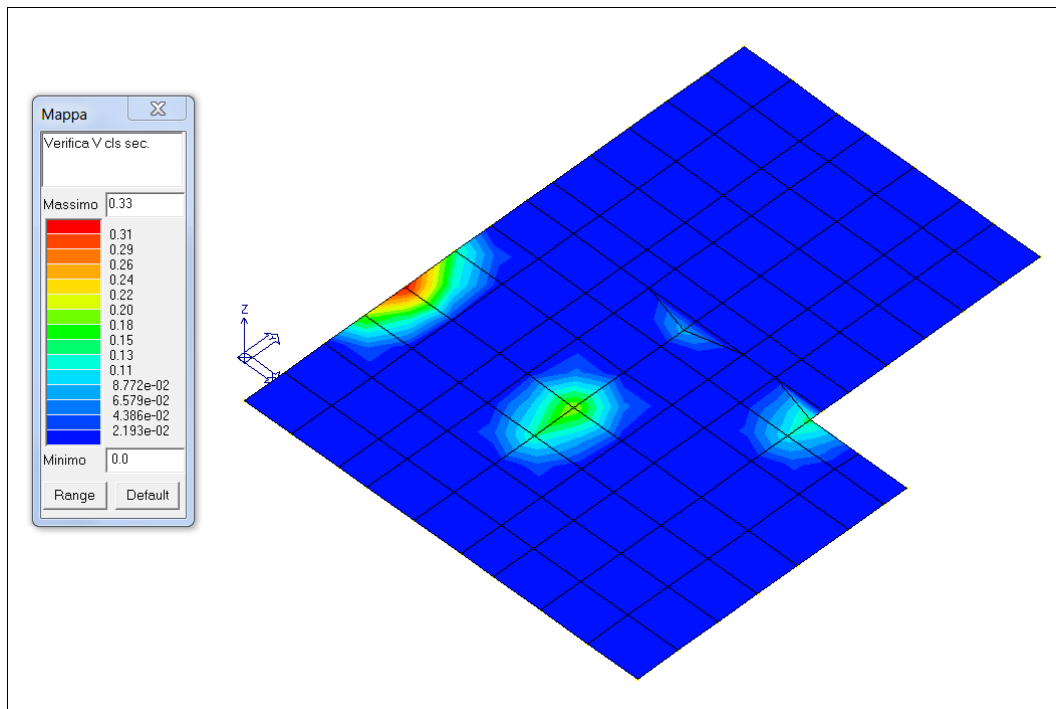
Le verifiche portano ai seguenti risultati:



Soletta superiore: Verifica N/M

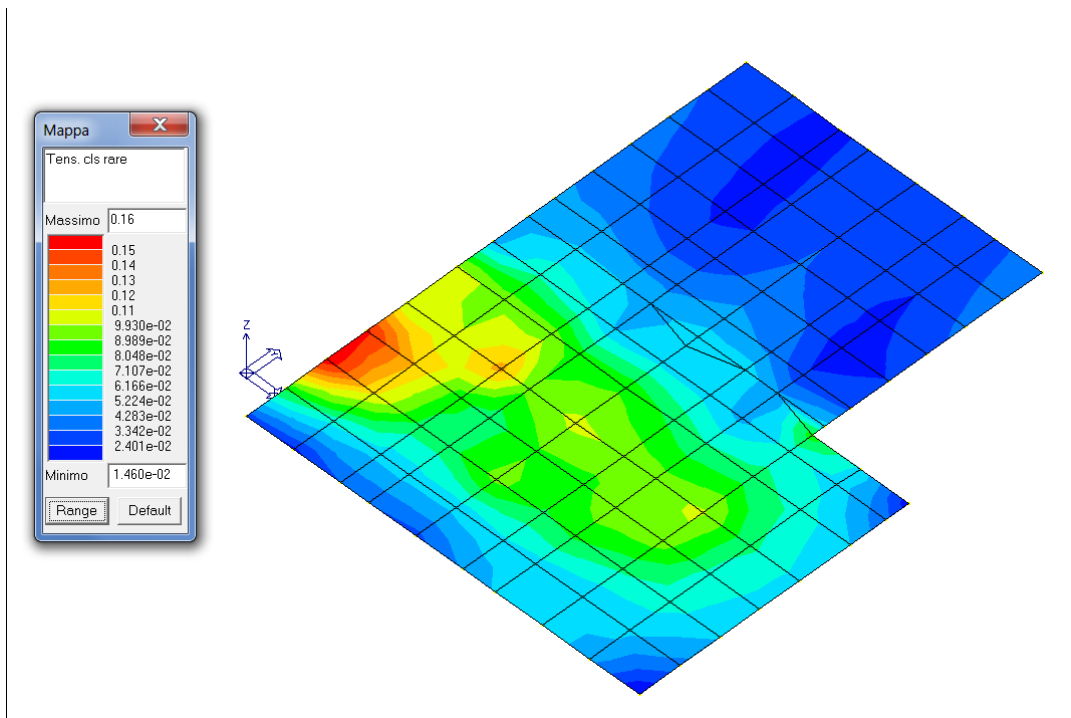


Soletta superiore: Verifica V cls principale

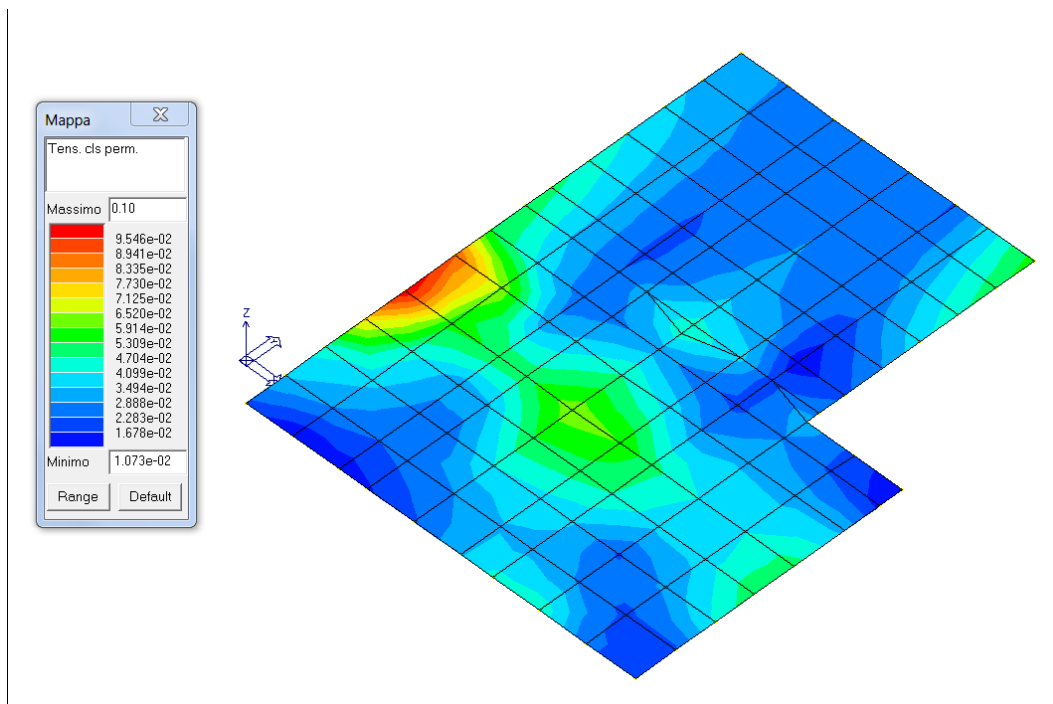


Soletta superiore: Verifica V cls secondario

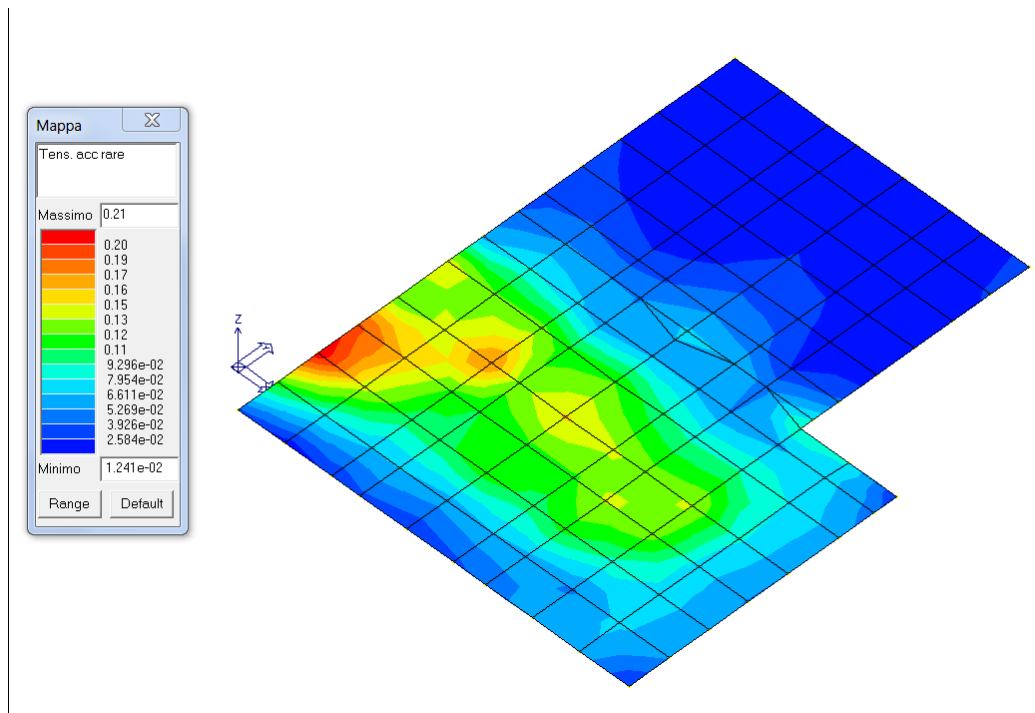
Per la verifica a fessurazione i risultati in termini di ampiezze calcolate riportano fessure nulle. Si riportano le verifiche di Stato limite di limitazione delle tensioni per la combinazione caratteristica e quasi permanente e di trazione nell'acciaio per la combinazione caratteristica in ottemperanza al paragrafo 4.1.2.2.5:



Tensione nel cls per combinazione caratteristica: verifica se  $\sigma_{c,max} \leq 0.60 * f_{ck}$



Tensione nel cls per combinazione permanente: verifica se  $\sigma_{c,max} \leq 0.45 * f_{ck}$



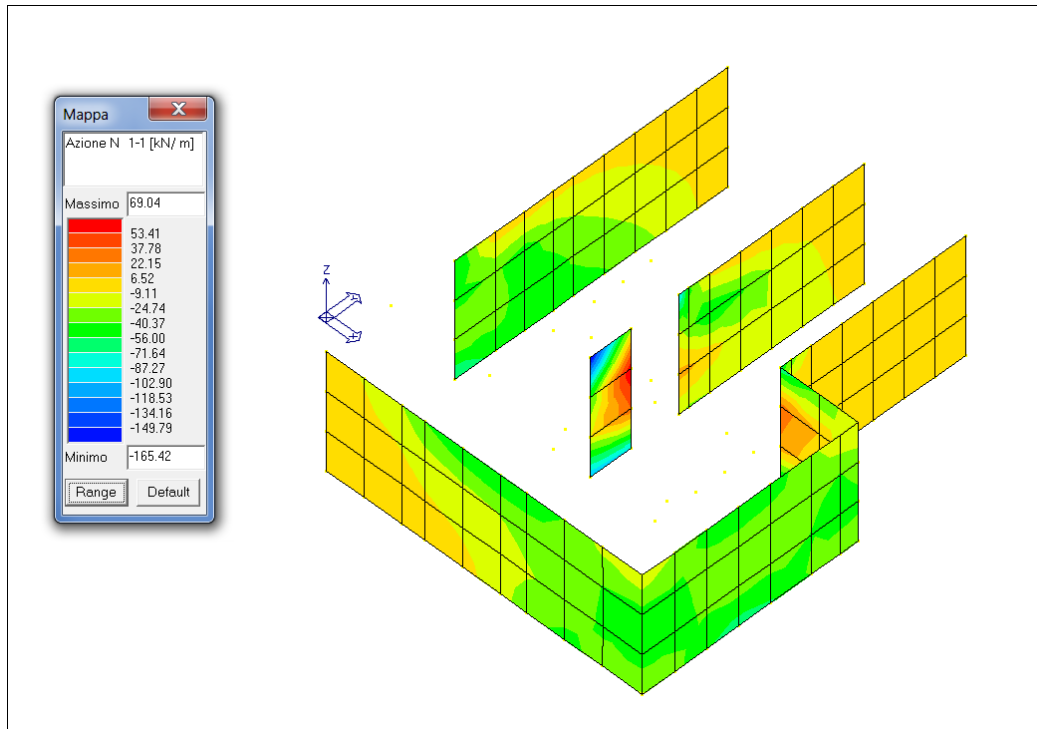
Tensione nel acciaio per combinazione caratteristica: verifica se  $\sigma_{s,max} \leq 0.80 * f_{yk}$

Per quanto riguarda le verifiche sismiche SLU (SLV) rientrano nelle casistiche precedentemente esposte. Anche per le verifiche sismiche SLE (SLD) si fa riferimento alla verifiche strutturali in termini di resistenza, secondo quanto riportato al par. 7.3.7.1, che sono comprese nelle casistiche precedentemente esposte.

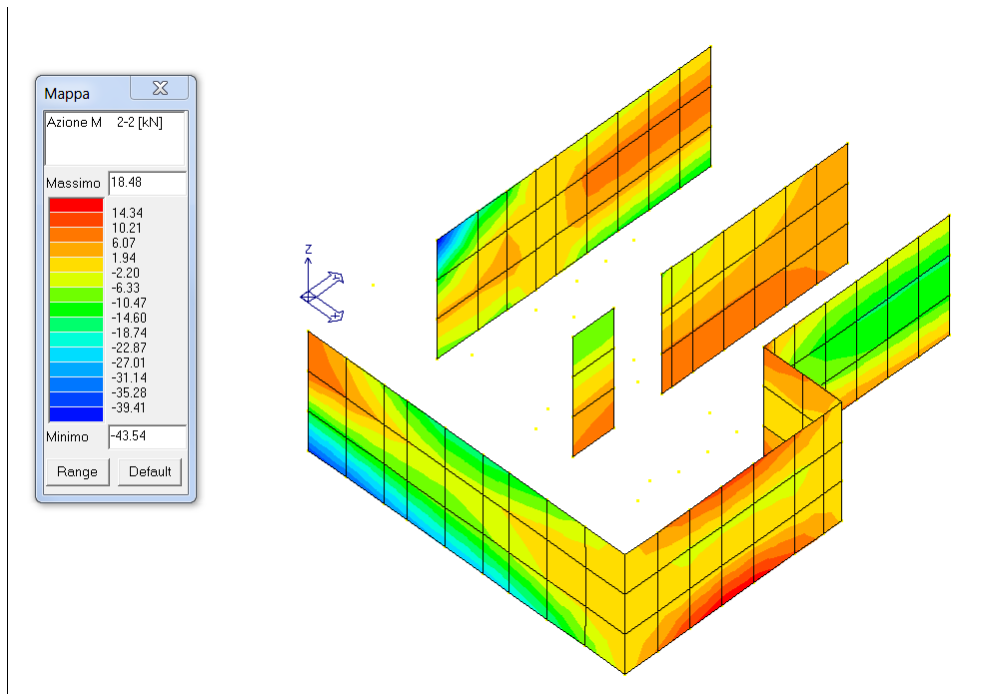
La verifica si ritiene soddisfatta.

## 8.2. Setti verticali

Le sollecitazioni massime di calcolo sono:



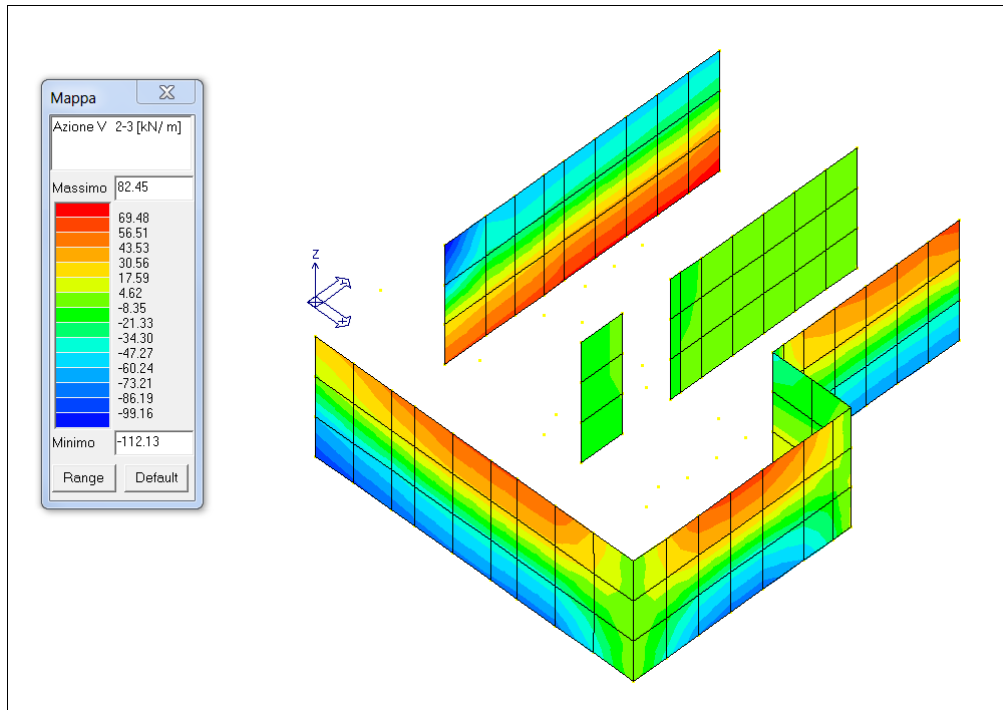
Setti verticali: N 1-1 max in CMB3



Setti verticali: M 2-2 max in CMB3

Il progetto prevede una armatura minima, sia all'estradosso che all'intradosso, di  $16.96 \text{ cm}^2/\text{m}$  in direzione verticale e  $5.65 \text{ cm}^2/\text{m}$  in direzione orizzontale.

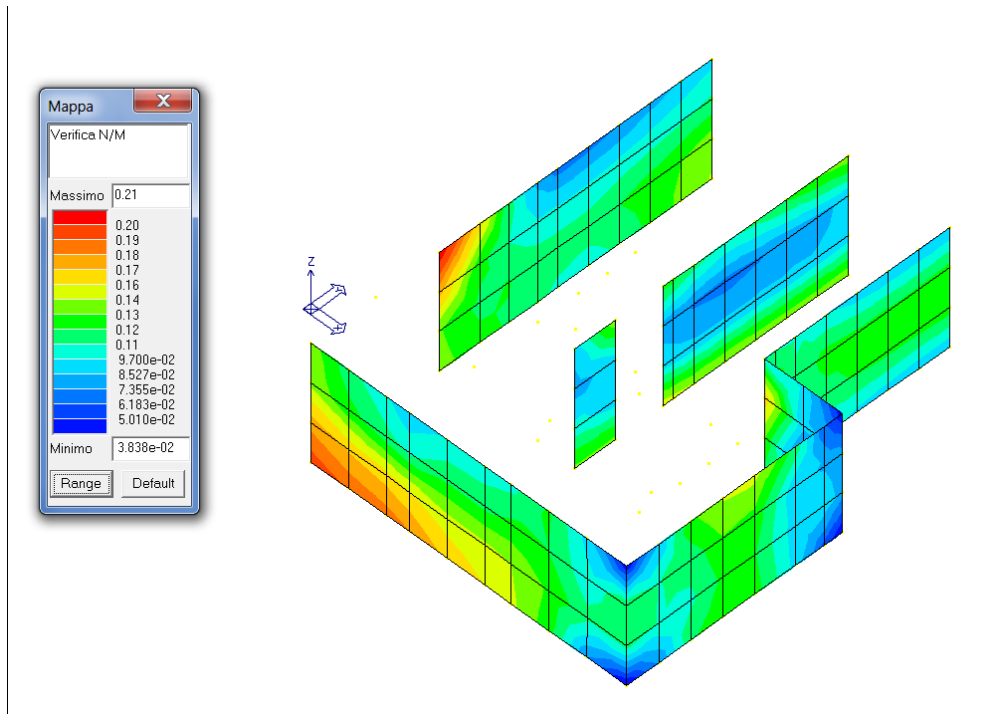
Per quanto riguarda le azioni di taglio esse sono le seguenti:



Setti verticali: V 2-3 max in CMB3

Le verifiche portano ai seguenti risultati:



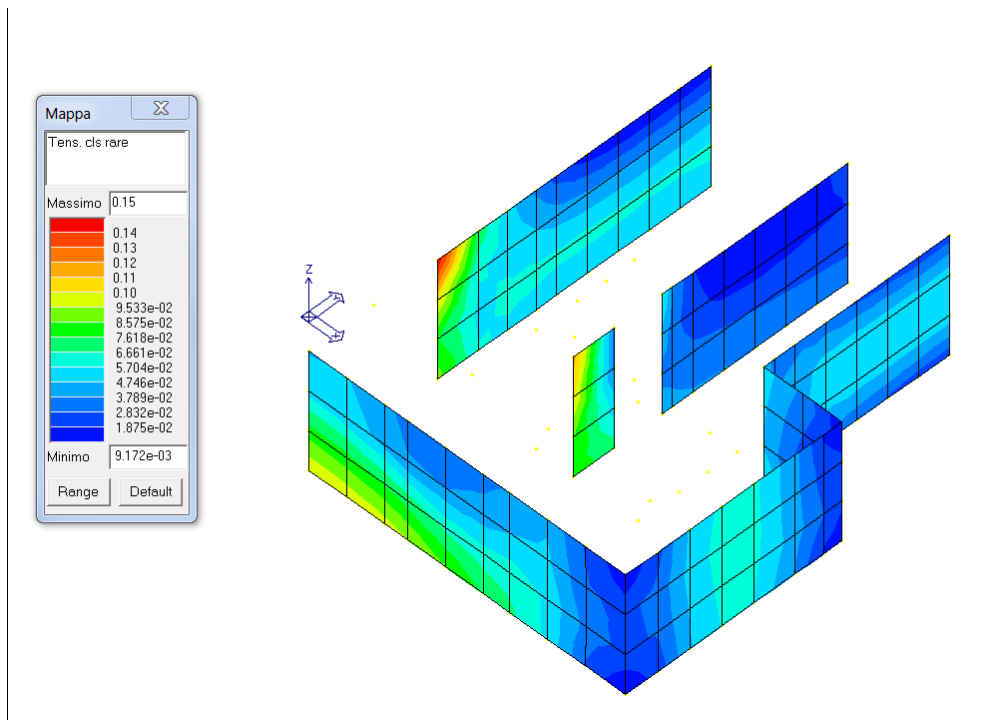


Setti verticali: Verifica N/M

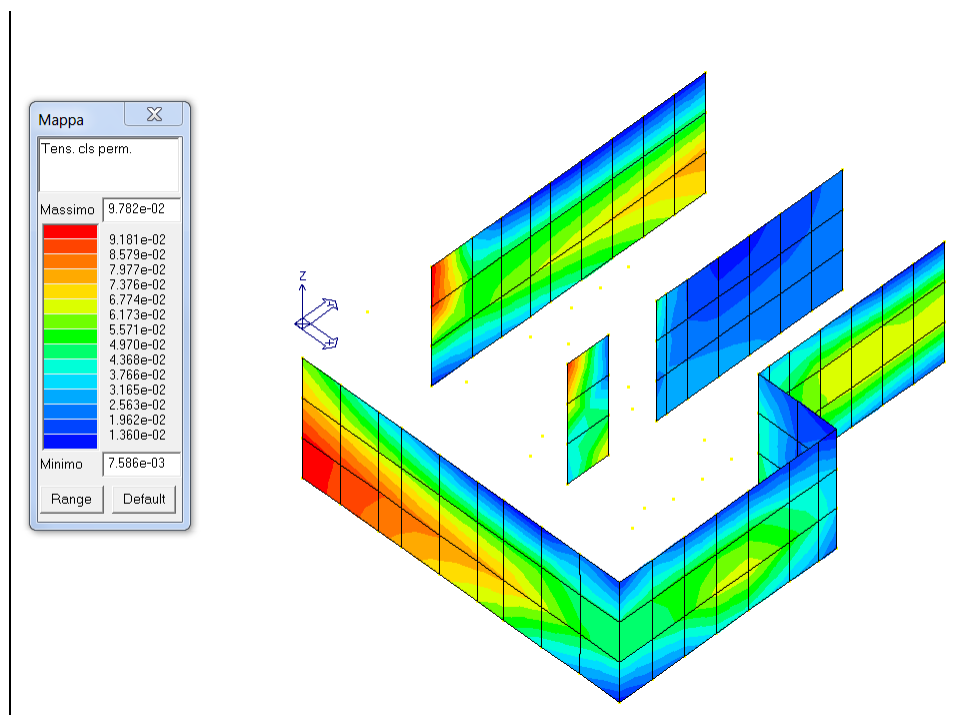
Per la verifica a taglio si ricorre alla valutazione numerica utilizzando i valori massimi di sollecitazione:

VERIFICA A TAGLIO SECONDO NTC2018						
sezioni generiche						
MONDOVI' - Setti cunicolo						
Materiale						
	cls			acciaio		
Rck	37.00	N/mm <sup>2</sup>	f <sub>yd</sub>	391.30	N/mm <sup>2</sup>	
fck	30.00	N/mm <sup>2</sup>	α	90.00		
fcd	17.00	N/mm <sup>2</sup>	θ	45.00		
Geometria sezione:						
h	0.35	m	Circolare	n		
cp	5.00	cm	d <sub>u</sub>	0.30	m	cotg θ 1.00
bw	1.00	m	z	0.27	m	
Ac	3000.00	cm <sup>2</sup>				
Asl	16.96	cm <sup>2</sup>	ρ <sub>1</sub>	0.006	ok	
Sollecitazioni						
Ned	0.00	kN	α <sub>c</sub>	1.000		
Ved	112.13	kN				
Verifica senza armatura aggiuntiva			Verifica con armatura aggiuntiva			
k	1.816		valore corretto	ARM.TRASV		
v <sub>min</sub>	0.469	N/mm <sup>2</sup>		Asw		cm <sup>2</sup>
ρ <sub>1</sub>	5.653E-03		valore corretto	s		cm
σ <sub>cp</sub>	0.000	N/mm <sup>2</sup>	valore corretto			
v <sub>max</sub>	0.560	N/mm <sup>2</sup>				
V' rd	168.01	kN		V Rcd		kN lato cls
V'' rd	140.80	kN		V Rsd		kN lato acciaio
<b>V Rd</b>	<b>140.80</b>	<b>kN</b>	OK	<b>V Rd</b>	<b>0.00</b>	<b>kN</b> non effettuata

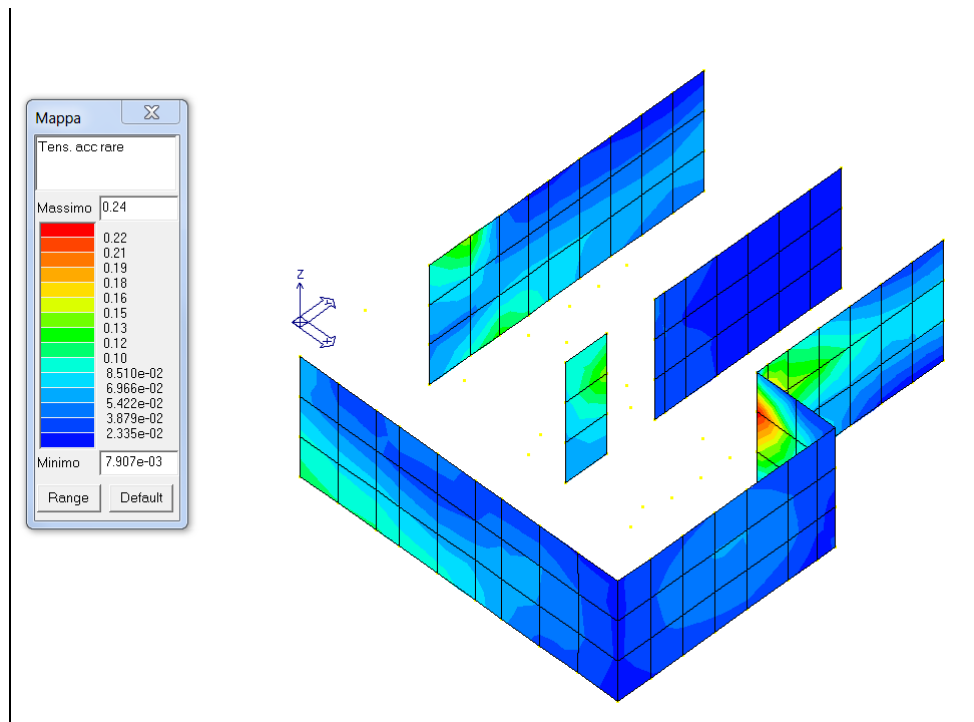
Per la verifica a fessurazione i risultati in termini di ampiezze calcolate riportano fessure nulle. Si riportano le verifiche di Stato limite di limitazione delle tensioni per la combinazione caratteristica e quasi permanente e di trazione nell'acciaio per la combinazione caratteristica in ottemperanza al paragrafo 4.1.2.2.5:



Tensione nel cls per combinazione caratteristica: verifica se  $\sigma_{c,max} \leq 0.60 * f_{ck}$



Tensione nel cls per combinazione permanente: verifica se  $\sigma_{c,max} \leq 0.45 * f_{ck}$



Tensione nel acciaio per combinazione caratteristica: verifica se  $\sigma_{s,max} \leq 0.80 * f_{yk}$

Per quanto riguarda le verifiche sismiche SLU (SLV) rientrano nelle casistiche precedentemente esposte. Anche per le verifiche sismiche SLE (SLD) si fa riferimento alla verifiche strutturali in termini di resistenza, secondo quanto riportato al par. 7.3.7.1, che sono comprese nelle casistiche precedentemente esposte.

La verifica si ritiene soddisfatta.

### 8.3. Soletta di base

Le sollecitazioni massime di calcolo sono:

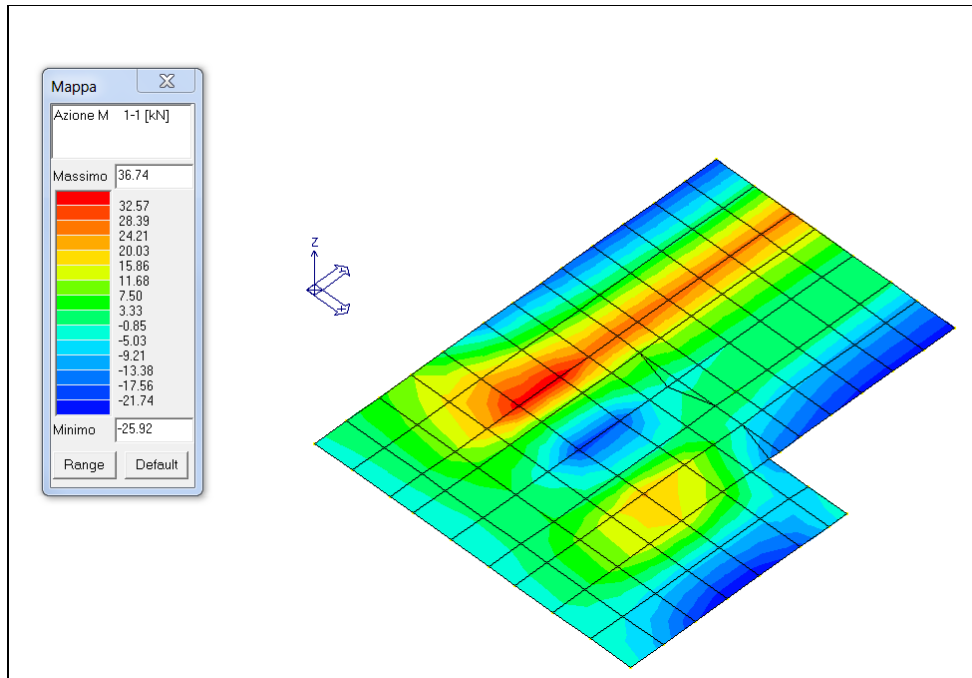


Figura 10.9 - Soletta inferiore: M 1-1 max in CMB1

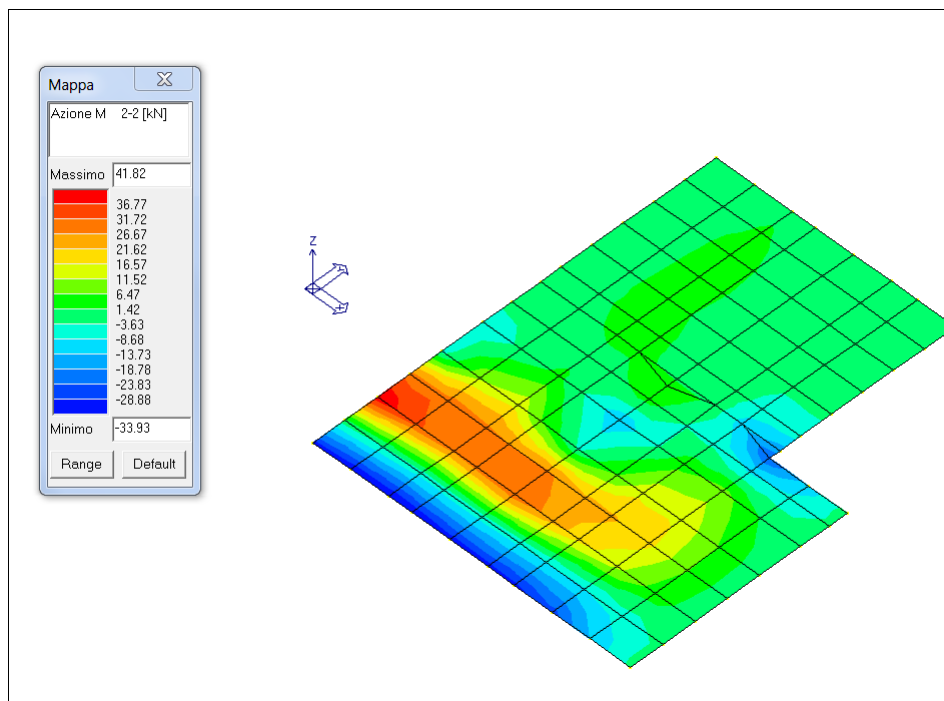


Figura 10.10 - Soletta inferiore: M 2-2 max in CMB1

Il progetto prevede una armatura minima, sia all'estradosso che all'intradosso, di  $16.96 \text{ cm}^2/\text{m}$  nelle due direzioni perpendicolari. Per una migliore visione dei risultati si rimanda ai tabulati riportati in allegato.

Per quanto riguarda le tensioni di taglio indotte sono le seguenti:

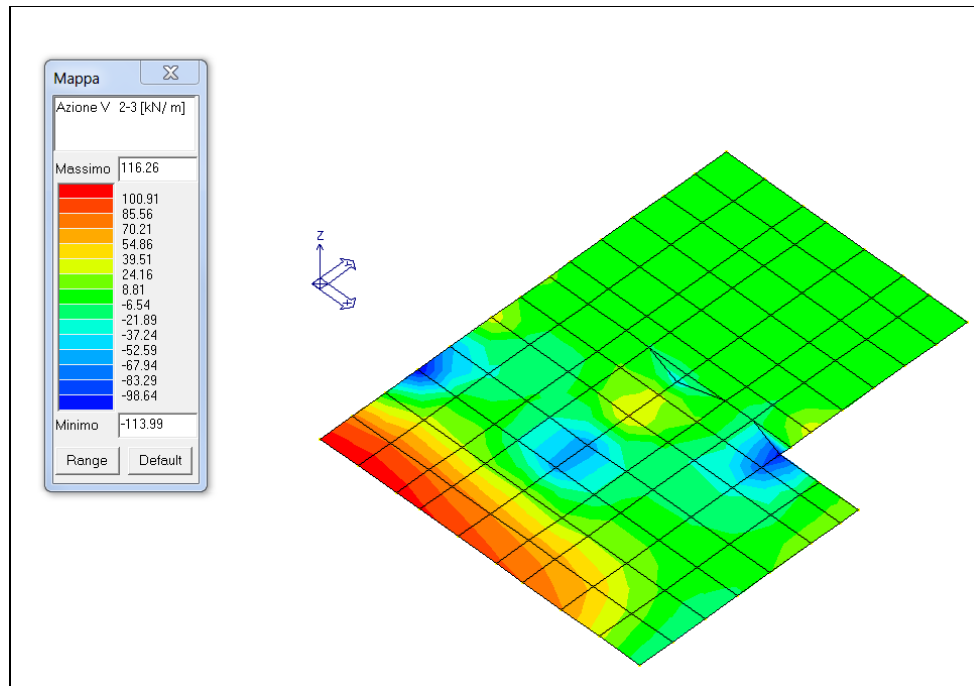
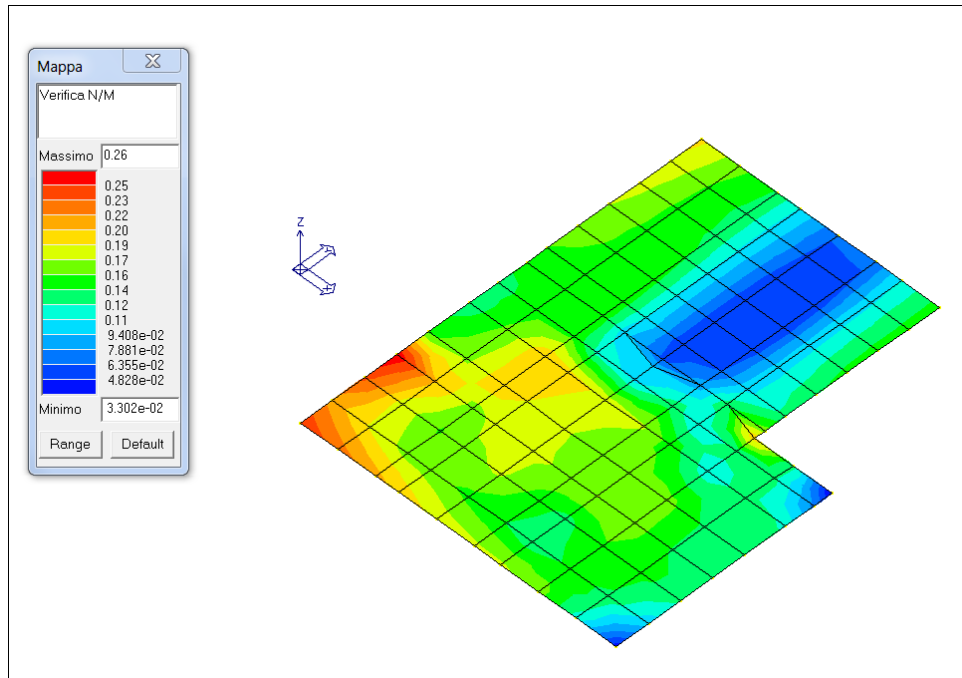
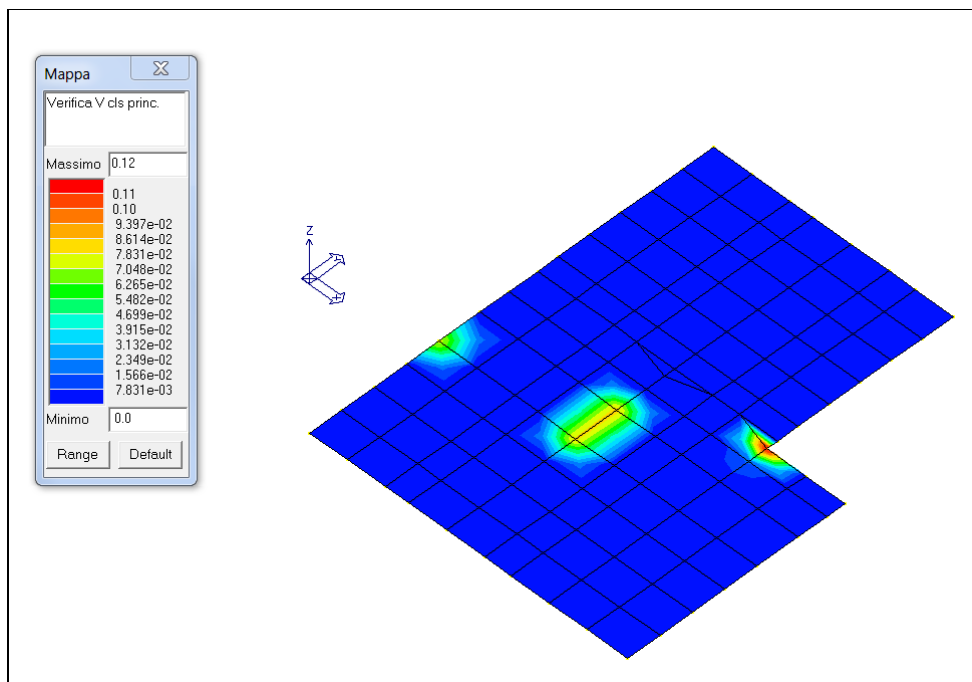


Figura 10.11 - Soletta inferiore: V 2-3 max in CMB1

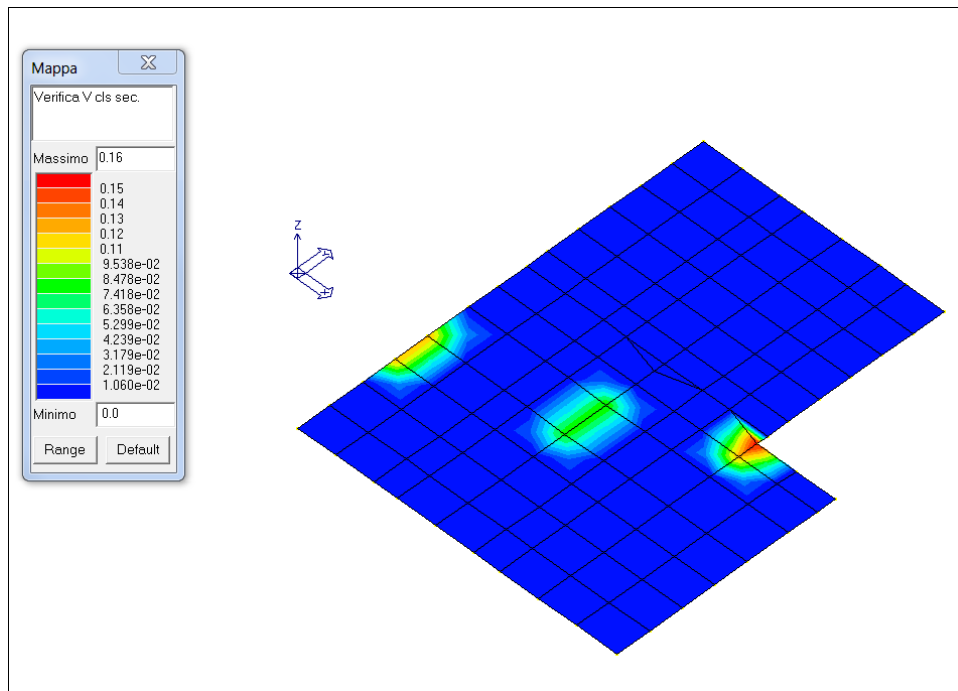
Le verifiche portano ai seguenti risultati:



Soletta di base: Verifica N/M



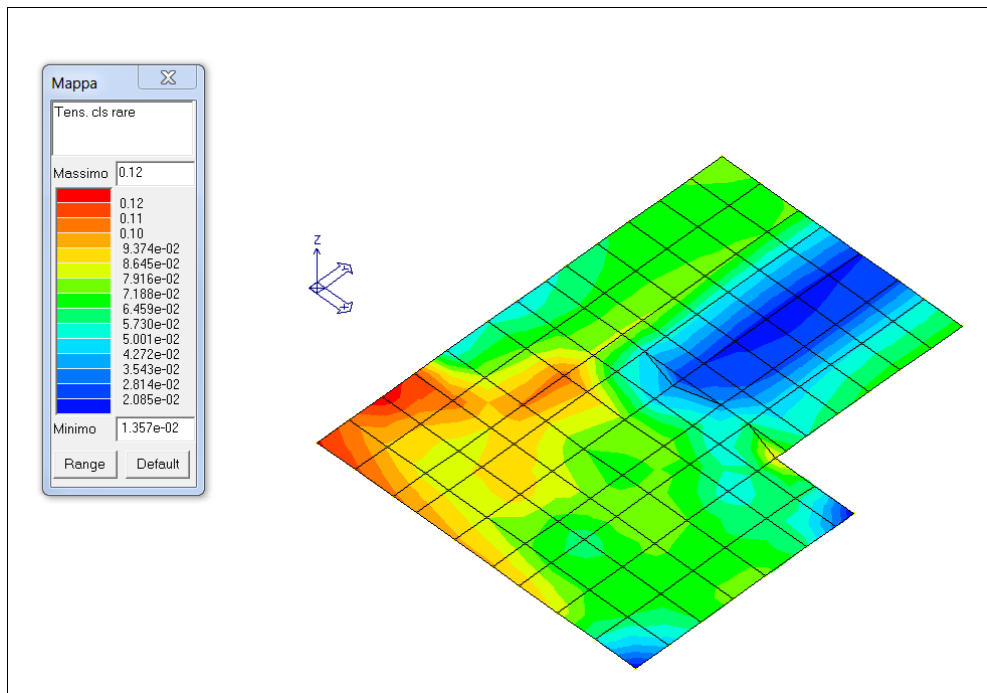
Soletta di base: Verifica V cls principale



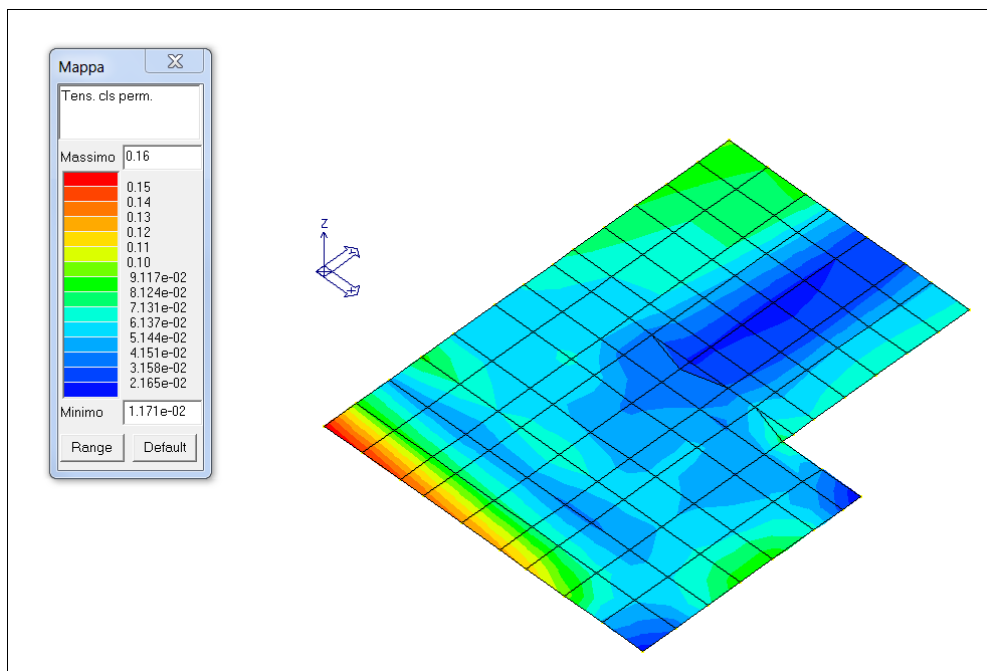
Soletta di base: Verifica V cls secondario

Per la verifica a fessurazione i risultati in termini di ampiezze calcolate riportano fessure nulle. Si riportano le verifiche di Stato limite di limitazione delle tensioni per la combinazione caratteristica e quasi permanente e di trazione nell'acciaio per la combinazione caratteristica in ottemperanza al paragrafo 4.1.2.2.5:

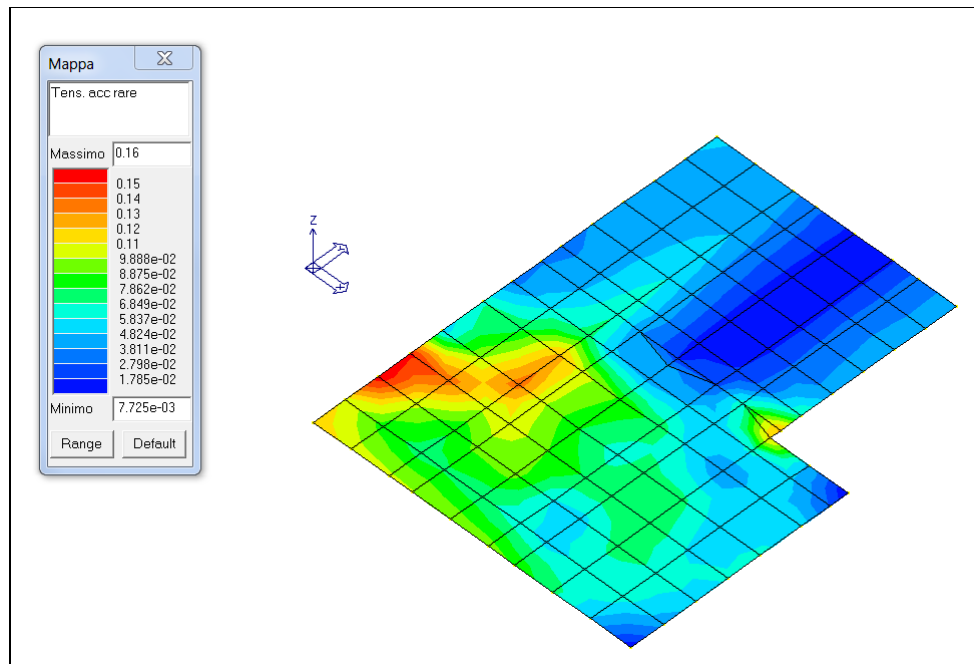




Tensione nel cls per combinazione caratteristica: verifica se  $\sigma_{c,max} \leq 0.60 * f_{ck}$



Tensione nel cls per combinazione permanente: verifica se  $\sigma_{c,max} \leq 0.45 * f_{ck}$



Tensione nel acciaio per combinazione caratteristica: verifica se  $\sigma_{s,max} \leq 0.80 * f_{yk}$

Per quanto riguarda le verifiche sismiche SLU (SLV) rientrano nelle casistiche precedentemente espone. Anche per le verifiche sismiche SLE (SLD) si fa riferimento alla verifiche strutturali in termini di resistenza, secondo quanto riportato al par. 7.3.7.1, che sono comprese nelle casistiche precedentemente espone.

La verifica si ritiene soddisfatta.

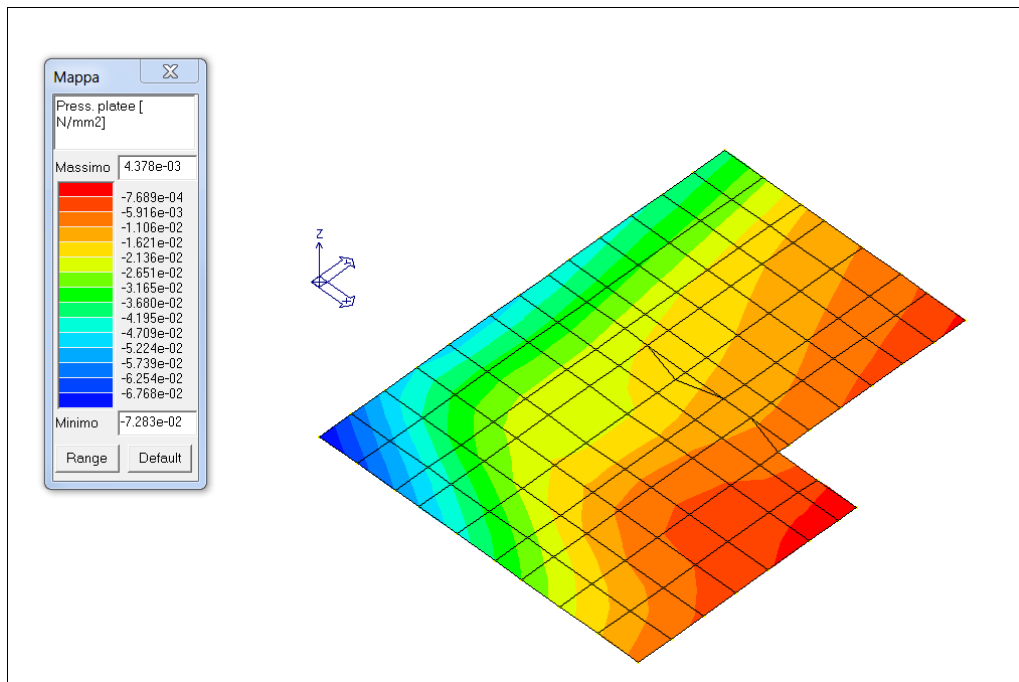
### 8.3.1. Verifiche geotecniche

Le verifiche geotecniche agli stati limite ultimi sono eseguite con riferimento al seguente Approccio:

Approccio 2 → (A1+M1+R3) → GEO per le verifiche delle fondazione

in cui il significato ed i valori dei coefficienti parziali da utilizzare sono già stati precedentemente discussi.

Le massime pressioni di contatto sul terreno sono le seguenti:



Pressione di contatto in CMB1

Le resistenze di progetto del terreno di fondazione sono:

MONDOVI' - Uscite cunicolo portanza fondazione platea		
	NTC2018	
	APPROCCIO 2	SISMICA
	Rd [kPa]	Rd [kPa]
DRENATE	1369.94	993.46
NON DRENATE	non det	non det

La verifica pertanto è soddisfatta.

Non si ritengono necessarie le verifiche allo scorrimento in quanto la struttura è interrata.

Non si ritengono necessarie le verifiche agli SLE/cedimenti in quanto la struttura ha fondazione compensata.

#### 8.4. Verifica al galleggiamento.

La verifica al galleggiamento (UPL) si conduce considerando:

- stabilizzante il peso proprio della struttura, il peso della sovrastruttura stradale e gli effetti di attrito fra terreno di riempimento e setti verticali ( $G_{stb,d}$ );
- instabilizzante la pressione dell'acqua, considerata cautelativamente a p.c., agente sulla soletta inferiore ( $G_{inst,d}$ ).

Per cui deve risultare:

$$V_{inst} < G_{stb} \text{ e cioè:}$$

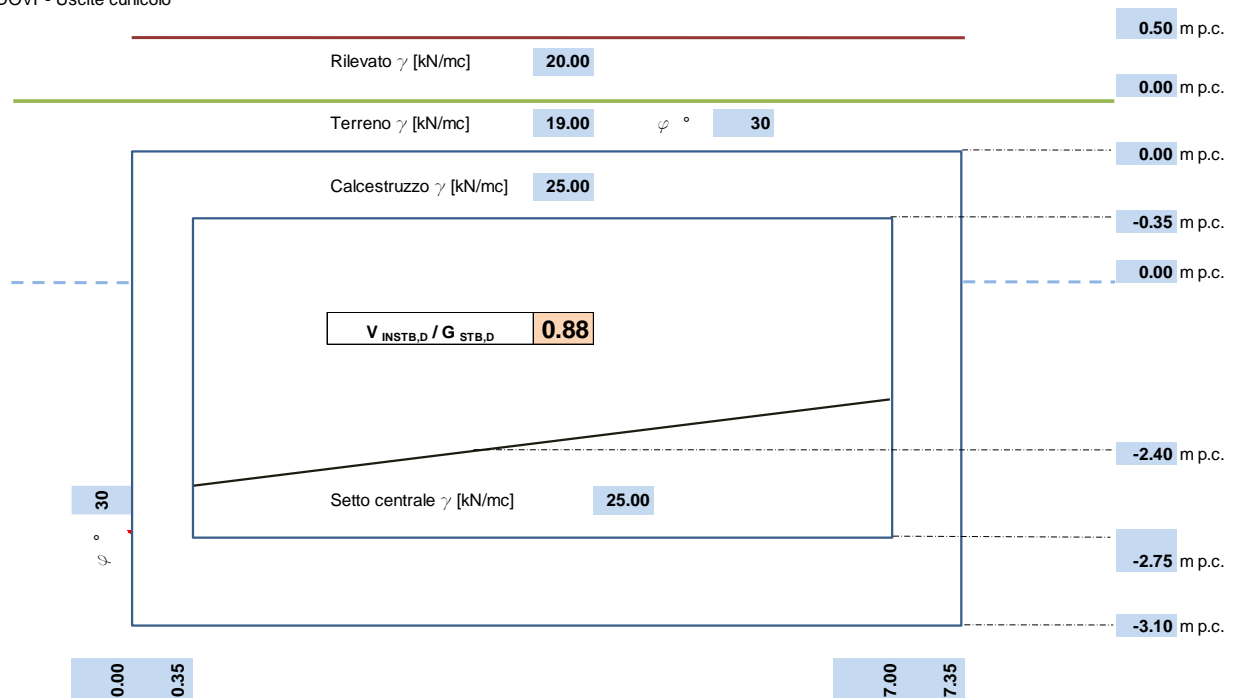
$$\gamma_{G1} G_{inst,d} < \gamma_{G1} G_{stb,d}$$

I risultati nella tabella seguente:

#### VERIFICA A GALLEGGIAMENTO NTC2018

Ipotesi di struttura infinitamente lunga - verifica per m lineare

MONDOVI' - Uscite cunicolo



STABILIZZANTI	Netto [kN/m]	$\gamma$ G	Di progetto [kN/m]
Peso manufatto	170.63	0.90	153.56
Peso terreno copertura	0.00	0.90	0.00
Peso rilevato	73.50	0.90	66.15
Peso setto centrale	58.19	0.90	52.37
Azione attrito su piedritti	12.48	0.90	11.24

$G_{STB,D} + RD$	283.32
------------------	--------

INSTABILIZZANTI	Netto [kN/m]	$\gamma$ G	Di progetto [kN/m]
Pressione falda	227.85	1.10	250.64

$V_{INSTB,D}$	250.64
---------------	--------

La verifica si ritiene soddisfatta.





**Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 14 Gennaio 2008 cap. 10 “Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo”.**

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[www.2si.it](http://www.2si.it)

[info@2si.it](mailto:info@2si.it)

D.M. 14/01/08 cap. 10.2 Affidabilità dei codici utilizzati

<https://www.2si.it/it/prodotti/affidabilita/>

# 1 INTESAZIONE E CONTENUTI DELLA RELAZIONE

## 1.1.1 Progetto

Contenuti della relazione:

### RELAZIONE DI CALCOLO STRUTTURALE

- *Origine e Caratteristiche dei Codici di Calcolo*
- *Affidabilità dei codici utilizzati*
- *Validazione dei codici*
- *Tipo di analisi svolta*
- *Modalità di presentazione dei risultati*
- *Informazioni generali sull'elaborazione*
- *Giudizio motivato di accettabilità dei risultati*

### STAMPA DEI DATI DI INGRESSO

- *Normative prese a riferimento*
- *Criteri adottati per le misure di sicurezza*
- *Criteri seguiti nella schematizzazione della struttura, dei vincoli e delle sconnessioni*



- *Interazione tra terreno e struttura*
- *Legami costitutivi adottati per la modellazione dei materiali e dei terreni*
- *Schematizzazione delle azioni, condizioni e combinazioni di carico*
- *Metodologie numeriche utilizzate per l'analisi strutturale*
- *Metodologie numeriche utilizzate per la progettazione e la verifica degli elementi strutturali*

STAMPA DEI RISULTATI

Il Progettista:

24 maggio 2020

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## **2 RELAZIONE DI CALCOLO STRUTTURALE**

### **2.1 PREMESSA**

La presente relazione di calcolo strutturale, in conformità al §10.1 del DM 14/01/08, è comprensiva di una descrizione generale dell'opera e dei criteri generali di analisi e verifica. Segue inoltre le indicazioni fornite al §10.2 del DM stesso per quanto concerne analisi e verifiche svolte con l'ausilio di codici di calcolo.

Nella presente parte sono riportati i principali elementi di inquadramento del progetto esecutivo riguardante le strutture, in relazione agli strumenti urbanistici, al progetto architettonico, al progetto delle componenti tecnologiche in generale ed alle prestazioni attese dalla struttura.

**\*Completare\***

### **2.2 ANALISI STORICO-CRITICA ED ESITO DEL RILIEVO GEOMETRICO-STRUTTURALE**

Per edifici esistenti, in coerenza con il paragrafo 8.2 delle NTC-08, l'analisi storico-critica ed il rilievo geometrico-strutturale devono evidenziare i seguenti aspetti: (a) la costruzione riflette lo stato delle conoscenze al tempo della sua realizzazione; (b) possono essere insiti e non palesi difetti di impostazione e di realizzazione; (c) la costruzione può essere stata soggetta ad azioni, anche eccezionali, i cui effetti non siano completamente manifesti; (d) le strutture possono presentare degrado e/o modificazioni significative rispetto alla situazione originaria.

#### *2.2.1 Analisi storico-critica*

Per edifici esistenti, viene indicata la documentazione reperita e vengono esplicitate le informazioni desunte da ciascuno dei documenti esaminati per le finalità indicate al paragrafo 8.5.1 delle NTC-08.

**\*Completare\***

#### *2.2.2 Esito del rilievo geometrico-strutturale*

Per edifici esistenti, vengono descritte le modalità con cui è stato effettuato il rilievo geometrico strutturale e gli esiti di quest'ultimo, anche con riferimenti espliciti e puntuali agli elaborati grafici che saranno riportati nella parte "4.1. Rilievo geometrico-strutturale". Il rilievo delle strutture deve essere eseguito e restituito secondo le

modalità e con le finalità riportate nei paragrafi 8.5.2 e 8.7 delle NTC-08.

**\*Completare\***

## 2.3 DESCRIZIONE GENERALE DELL'OPERA

\*Completare\*

2.3.1 Descrizione generale dell'opera	
Fabbricato ad uso	
Ubicazione	Comune di MONDOVI' (CN) (Regione PIEMONTE)
	Località MONDOVI' (CN)
	Longitudine 7.811, Latitudine 44.366
Numero di piani	Fuori terra
	Interrati
	le dimensioni dell'opera in pianta sono racchiuse in un rettangolo di
Numero vani scale	
Numero vani ascensore	
Tipo di fondazione	

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

2.3.3 Parametri della struttura			
Classe d'uso	Vita	Vn	Coeff. Uso
	[anni]		Periodo Vr [anni]

III	50.0	1.5	75.0
-----	------	-----	------

#### 2.3.4 *Fattore di struttura*

*\*Completare\**

### **2.4 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.

<b>2.4.1 Progetto-verifica degli elementi</b>	
Progetto cemento armato	D.M. 14-01-2008
Progetto acciaio	D.M. 14-01-2008
Progetto legno	D.M. 14-01-2008
Progetto muratura	D.M. 14-01-2008
<b>2.4.2 Azione sismica</b>	
Norma applicata per l’ azione sismica	D.M. 14-01-2008

### **2.5 LIVELLI DI CONOSCENZA E FATTORI DI CONFIDENZA**

Il livello di conoscenza, per edifici esistenti è *\*Completare\**

Pertanto il fattore di confidenza è *\*Completare\**

### **2.6 AZIONI DI PROGETTO SULLA COSTRUZIONE**

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





Elemento tipo <b>BOUNDARY</b>	(molla)
Elemento tipo <b>STIFFNESS</b>	(matrice di rigidezza)
Elemento tipo <b>BRICK</b>	(elemento solido)
Elemento tipo <b>SOLAIO</b>	(macro elemento composto da più membrane)

## 2.7 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 delle NTC-08, tale da garantirne la leggibilità, la corretta interpretazione e la riproducibilità

**\*Completare\***

2.7.1 Tipo di analisi strutturale	
Carichi statici	SI
Sismica statica lineare	SI
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:

2.7.2 Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2020-03-188)

Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Dati utente finale:	***** COMPLETARE *****
Codice Utente:	***** COMPLETARE *****
Codice Licenza:	Licenza dsi3478

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:

<b>2.7.3 Affidabilità dei codici utilizzati</b>	
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="http://www.2si.it/Software/Affidabilità.htm">http://www.2si.it/Software/Affidabilità.htm</a>	

<b>2.7.4 Modellazione della geometria e proprietà meccaniche:</b>	
nodi	352
elementi D2 (per aste, travi, pilastri...)	0
elementi D3 (per pareti, platee, gusci...)	342
elementi solaio	0
elementi solidi	0
<b>2.7.5 Dimensione del modello strutturale [cm]:</b>	
X min =	-0.00

Xmax =	730.25
Ymin =	-0.00
Ymax =	927.50
Zmin =	-354.00
Zmax =	-79.00
<b>2.7.6 Strutture verticali:</b>	
Elementi di tipo asta	NO
Pilastri	NO
Pareti	SI
Setti (a comportamento membranale)	NO
<b>2.7.7 Strutture non verticali:</b>	
Elementi di tipo asta	NO
Travi	NO
Gusci	SI
Membrane	NO
<b>2.7.8 Orizzontamenti:</b>	
Solai con la proprietà piano rigido	NO
Solai senza la proprietà piano rigido	NO
<b>2.7.9 Tipo di vincoli:</b>	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	NO
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	SI
Fondazioni con elementi solidi	NO

## 2.8 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”.

## 2.9 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.

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

### 2.9.2 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 compressione 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

altri risultati significativi:

- **\*Completare\***

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

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

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

*\*Completare\**

## **2.10 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 duttilità, di degrado.

## **2.11 VERIFICHE AGLI STATI LIMITE DI ESERCIZIO**

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

## **2.12 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.



### 3 NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 14 Gennaio 2008 e allegate "Norme tecniche per le costruzioni".
2. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
3. 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".
4. 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>>".
5. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
6. 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.
7. 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.
8. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
9. 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".
10. 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".
11. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
12. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
13. 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.
14. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
15. 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.
16. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
17. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
18. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
19. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
20. 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.
21. 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.
22. 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.
23. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.



24. 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.
25. 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.
26. 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.
27. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
28. 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.
29. 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.
30. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
31. 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.
32. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.
- 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 14.01.08 è dovuto o a progettazione simulata di edificio esistente o ad applicazione del punto 2.7 del DM 14.01.08

## 4 CARATTERISTICHE MATERIALI UTILIZZATI

### 4.1 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	cemento 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
3	muratura	Muratura consolidata	Muratura per la quale si prevedono interventi di rinforzo"
		Incremento resistenza	Incremento conseguito in termini di resistenza
		Incremento rigidezza	Incremento conseguito in termini di rigidezza
		Resistenza f	Valore della resistenza a compressione
		Resistenza fv0	Valore della resistenza a taglio in assenza di tensioni normali

Resistenza fh	Valore della resistenza a compressione orizzontale
Resistenza fb	Valore della resistenza a compressione dei blocchi
Resistenza fbh	Valore della resistenza a compressione dei blocchi in direzione orizzontale
Resistenza fv0h	Valore della resistenza a taglio in assenza di tensioni normali per le travi
Resistenza ft	Valore della resistenza a trazione per fessurazione diagonale
Resistenza fvlim	Valore della massima resistenza a taglio
Resistenza fbt	Valore della resistenza a trazione dei blocchi
Coefficiente mu	Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4)
Coefficiente fi	Coefficiente d'ingranamento utilizzato per la resistenza a taglio
Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
<b>4 legno</b>	
E0,05	Modulo di elasticità corrispondente ad un frattile del 5%
Resistenza fc0	Valore della resistenza a compressione parallela
Resistenza ft0	Valore della resistenza a trazione parallela
Resistenza fm	Valore della resistenza a flessione
Resistenza fv	Valore della resistenza a taglio
Resist. ft0k	Resistenza caratteristica (tensione amm. per REGLES) per trazione
Resist. fmk	Resistenza caratteristica (tensione amm. per REGLES) per flessione
Resist. fvk	Resistenza caratteristica (tensione amm. per REGLES) per taglio
Modulo E0,05	Modulo elastico parallelo caratteristico
Lamellare	lamellare o massiccio

Nel tabulato si riportano sia i valori caratteristici che medi utilizzando gli uni e/o gli altri in relazione alle richieste di normativa ed alla tipologia di verifica. (Cap.7 NTC18 per materiali nuovi, Cap.8 NTC18 e

relativa circolare 21/01/2019 per materiali esistenti, Linee Guida Reluis per incamiciatura CAM, CNR-DT 200 per interventi con FRP)

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

Con riferimento al **Documento di Affidabilità** “Test di validazione del software di calcolo PRO\_SAP e dei moduli aggiuntivi PRO\_SAP Modulo Geotecnico, PRO\_CAD nodi acciaio e PRO\_MST” - versione Maggio 2011, disponibile per il download sul sito [www.2si.it](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.
50	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
51	FATTORE DI STRUTTURA
52	SOVRARESISTENZE
53	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
54	PARETI IN C.A. SNELLE IN ZONA SISMICA
80	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.

120	PROGETTO E VERIFICA DI TRAVI PREM
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Modellazione di strutture in acciaio

Test N°	Titolo
55	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
56	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
57	LUCE LIBERA DI COLONNE IN ACCIAIO
58	SVERGOLAMENTO DI TRAVI IN ACCIAIO
59	FATTORE DI STRUTTURA
60	ACCIAIO D.M.2008
61	ACCIAIO EC3
62	GERARCHIA RESISTENZE STRUTTURE IN ACCIAIO
63	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA IRRIGIDIMENTI TRASVERSALI
74	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI UN PIATTO DI RINFORZO SALDATO ALL'ANIMA DELLA COLONNA
75	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI DUE PIATTI DI RINFORZO SALDATI ALL'ANIMA DELLA COLONNA
76	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A DUE VIE SU ALI COLONNA
77	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A UNA VIA CON DUE COMBINAZIONI DI CARICO
78	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO SU ANIMA SENZA RINFORZI A QUATTRO FILE DI BULLONI DI CUI UNA SU PIASTRA INFERIORE E UNA SU PIASTRA SUPERIORE
79	VERIFICA DELLA PIASTRA NODO TRAVE COLONNA
85	TELAIO ACCIAIO: CONTROVENTI CONCENTRICI

## Modellazione di strutture in muratura

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

## Modellazione di strutture in legno

Test N°	Titolo
17	SOLAIO: MISTO LEGNO-CALCESTRUZZO
89	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
90	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
91	FATTORE DI STRUTTURA
92	VERIFICHE EC5
93	SNELLEZZE EC5
94	VERIFICA AL FUOCO DI STRUTTURE IN LEGNO SECONDO EC5
117	PROGETTO E VERIFICA DI GUSCI IN MATERIALE XLAM
118	PROGETTO E VERIFICA DI PARETI IN MATERIALE XLAM E RELATIVI COLLEGAMENTI
119	PROGETTO E VERIFICA DI SOLAI IN MATERIALE XLAM

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		kN/ m2	kN/ m2	kN/ m2		kN/ m2	kN/ m3		
1	Calcestruzzo Classe C30/37			3.284e+07	0.12	1.466e+05	0.3	1.00e-05	
	Resistenza Rc	3.700e+04							

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Resistenza fctm		2900.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
2	c.a. class 30 LIGHTENED			3.122e+07	0.12	1.394e+05	0.1	1.00e-05	
	Resistenza Rc	3.000e+04							
	Resistenza fctm		2607.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
3	c.a. classe 35			3.372e+07	0.12	1.505e+05	0.3	1.00e-05	
	Resistenza Rc	3.500e+04							
	Resistenza fctm		2889.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
4	C32/40			3.605e+07	0.12	1.609e+05	0.3	1.00e-05	
	Resistenza Rc	4.000e+04							
	Resistenza fctm		3158.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
5	c.a. classe 45			3.824e+07	0.12	1.707e+05	0.3	1.00e-05	
	Resistenza Rc	4.500e+04							
	Resistenza fctm		3416.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
6	c.a. classe 50			4.030e+07	0.12	1.799e+05	0.3	1.00e-05	
	Resistenza Rc	5.000e+04							
	Resistenza fctm		3644.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
7	C25/30			3.100e+07	0.12	1.384e+05	0.3	1.00e-05	
	Resistenza Rc	3.000e+04							
	Resistenza fctm		2600.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
8	C32/40			3.605e+07	0.12	1.609e+05	0.3	1.00e-05	
	Resistenza Rc	4.000e+04							
	Resistenza fctm		3158.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
9	C35/45			3.400e+07	0.12	1.518e+05	0.3	1.00e-05	
	Resistenza Rc	4.500e+04							
	Resistenza fctm		3200.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
10	acciaio Fe360 - S235			2.100e+08	0.30	8.077e+05	0.8	1.00e-05	
	Tensione ft	3.600e+05							
	Resistenza fd	2.350e+05							
	Resistenza fd (>40)	2.100e+05							
	Tensione ammissibile	1.600e+05							
	Tensione ammissibile (>40)	1.400e+05							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
11	acciaio Fe430 - S275			2.100e+08	0.30	8.077e+05	0.8	1.00e-05	
	Tensione ft	4.300e+05							
	Resistenza fd	2.750e+05							



Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Resistenza fd (>40)	2.500e+05							
	Tensione ammissibile	1.900e+05							
	Tensione ammissibile (>40)	1.700e+05							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
12	acciaio Fe510 - S355			2.100e+08	0.30	8.077e+05	0.8	1.00e-05	
	Tensione ft	5.100e+05							
	Resistenza fd	3.550e+05							
	Resistenza fd (>40)	3.150e+05							
	Tensione ammissibile	2.400e+05							
	Tensione ammissibile (>40)	2.100e+05							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
13	muratura E = 4.500e+04 POROTHERM BIO PLAN 38			4.500e+06	0.0	1.800e+04	0.1	1.00e-05	
	Resistenza f	5900.0							
	Resistenza fh	2450.0							
	Resistenza fv0	410.0							
	Resistenza fv0h	410.0							
	Resistenza tau0	615.0							
	Resistenza fvlim	1500.0							
	Resistenza fb	1.180e+04							
	Resistenza fbh	2360.0							
	Resistenza fbt	1180.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
14	muratura E = 3.000e+04 mattoni pieni con malta M4			3.000e+06	0.0	1.200e+04	0.2	1.00e-05	
	Resistenza f	3000.0							
	Resistenza fh	1500.0							
	Resistenza fv0	200.0							
	Resistenza fv0h	200.0							
	Resistenza tau0	300.0							
	Resistenza fvlim	1500.0							
	Resistenza fb	6000.0							
	Resistenza fbh	1200.0							
	Resistenza fbt	600.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
15	muratura E = 3.400e+04 mattoni pieni con malta M2			3.400e+06	0.0	1.360e+04	0.2	1.00e-05	
	Resistenza f	3400.0							
	Resistenza fh	1700.0							
	Resistenza fv0	200.0							
	Resistenza fv0h	200.0							
	Resistenza tau0	300.0							
	Resistenza fvlim	1500.0							
	Resistenza fb	6800.0							
	Resistenza fbh	1360.0							
	Resistenza fbt	680.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
16	muratura E = 4.500e+04 mattoni semipieni tipo poroton 800 con malta M2			4.500e+06	0.0	1.800e+04	0.1	1.00e-05	
	Resistenza f	4500.0							
	Resistenza fh	2250.0							
	Resistenza fv0	200.0							
	Resistenza fv0h	200.0							
	Resistenza tau0	300.0							
	Resistenza fvlim	1500.0							
	Resistenza fb	9000.0							
	Resistenza fbh	1800.0							
	Resistenza fbt	900.0							

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
17	muratura E = 5.000e+04 mattoni semipieni tipo poroton 800 con malta M1			5.000e+06	0.0	2.000e+04	0.1	1.00e-05	
	Resistenza f	5000.0							
	Resistenza fh	2500.0							
	Resistenza fv0	200.0							
	Resistenza fv0h	200.0							
	Resistenza tau0	300.0							
	Resistenza fvlim	1500.0							
	Resistenza fb	1.000e+04							
	Resistenza fbh	2000.0							
	Resistenza fbt	1000.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
18	muratura E = 4.500e+04 mattoni semipieni tipo poroton incastro con malta M2			4.500e+06	0.0	1.800e+04	0.1	1.00e-05	
	Resistenza f	4500.0							
	Resistenza fh	2250.0							
	Resistenza fv0	200.0							
	Resistenza fv0h	200.0							
	Resistenza tau0	300.0							
	Resistenza fvlim	1500.0							
	Resistenza fb	9000.0							
	Resistenza fbh	1800.0							
	Resistenza fbt	900.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
19	muratura E = 5.000e+04 mattoni semipieni tipo poroton incastro con malta M1			5.000e+06	0.0	2.000e+04	0.1	1.00e-05	
	Resistenza f	5000.0							
	Resistenza fh	2500.0							
	Resistenza fv0	200.0							
	Resistenza fv0h	200.0							
	Resistenza tau0	300.0							
	Resistenza fvlim	1500.0							
	Resistenza fb	1.000e+04							
	Resistenza fbh	2000.0							
	Resistenza fbt	1000.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
20	muratura E = 2.300e+04 cls cellulare tipo Gasbeton della RDB con malta M4			2.300e+06	0.0	9200.0	8.00e-02	1.00e-05	
	Resistenza f	2300.0							
	Resistenza fh	1150.0							
	Resistenza fv0	100.0							
	Resistenza fv0h	100.0							
	Resistenza tau0	150.0							
	Resistenza fvlim	1288.0							
	Resistenza fb	4600.0							
	Resistenza fbh	920.0							
	Resistenza fbt	460.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
21	muratura E = 2.600e+04 cls cellulare tipo Gasbeton della RDB con malta M2			2.600e+06	0.0	1.040e+04	8.00e-02	1.00e-05	
	Resistenza f	2600.0							
	Resistenza fh	1300.0							
	Resistenza fv0	200.0							
	Resistenza fv0h	200.0							
	Resistenza tau0	300.0							
	Resistenza fvlm	1456.0							
	Resistenza fb	5200.0							
	Resistenza fbh	1040.0							
	Resistenza fbt	520.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
22	muratura E = 2.000e+04 tufo con malta M4			2.000e+06	0.0	8000.0	0.2	1.00e-05	
	Resistenza f	2000.0							
	Resistenza fh	1000.0							
	Resistenza fv0	100.0							
	Resistenza fv0h	100.0							
	Resistenza tau0	150.0							
	Resistenza fvlm	1120.0							
	Resistenza fb	4000.0							
	Resistenza fbh	800.0							
	Resistenza fbt	400.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
23	muratura E = 2.200e+04 tufo con malta M2			2.200e+06	0.0	8800.0	0.2	1.00e-05	
	Resistenza f	2200.0							
	Resistenza fh	1100.0							
	Resistenza fv0	100.0							
	Resistenza fv0h	100.0							
	Resistenza tau0	150.0							
	Resistenza fvlm	1232.0							
	Resistenza fb	4400.0							
	Resistenza fbh	880.0							
	Resistenza fbt	440.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
24	muratura E = 2.600e+04 tufo con intervento di rete elettrosaldata e malta cementizia M1			2.600e+06	0.0	1.040e+04	0.2	1.00e-05	
	Resistenza f	2600.0							
	Resistenza fh	1300.0							
	Resistenza fv0	200.0							
	Resistenza fv0h	200.0							
	Resistenza tau0	300.0							
	Resistenza fvlm	1456.0							
	Resistenza fb	5200.0							
	Resistenza fbh	1040.0							
	Resistenza fbt	520.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
25	muratura E = 1.000e+04 pietrame a sacco con malta M4			1.000e+06	0.0	4000.0	0.2	1.00e-05	
	Resistenza f	1000.0							
	Resistenza fh	500.0							

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Resistenza fv0	100.0							
	Resistenza fv0h	100.0							
	Resistenza tau0	150.0							
	Resistenza fvim	560.0							
	Resistenza fb	2000.0							
	Resistenza fbh	400.0							
	Resistenza fbt	200.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
26	muratura E = 1.400e+04 pietrame a sacco con intervento di rete elettrosaldata e malta cementizia M1			1.400e+06	0.0	5600.0	0.2	1.00e-05	
	Resistenza f	1400.0							
	Resistenza fh	700.0							
	Resistenza fv0	100.0							
	Resistenza fv0h	100.0							
	Resistenza tau0	150.0							
	Resistenza fvim	784.0							
	Resistenza fb	2800.0							
	Resistenza fbh	560.0							
	Resistenza fbt	280.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
27	muratura E = 1.600e+04 pietrame listato con malta M4			1.600e+06	0.0	6400.0	0.2	1.00e-05	
	Resistenza f	1600.0							
	Resistenza fh	800.0							
	Resistenza fv0	100.0							
	Resistenza fv0h	100.0							
	Resistenza tau0	150.0							
	Resistenza fvim	896.0							
	Resistenza fb	3200.0							
	Resistenza fbh	640.0							
	Resistenza fbt	320.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
28	muratura E = 2.000e+04 pietrame listato con intervento di rete elettrosaldata e malta M1			2.000e+06	0.0	8000.0	0.2	1.00e-05	
	Resistenza f	2000.0							
	Resistenza fh	1000.0							
	Resistenza fv0	100.0							
	Resistenza fv0h	100.0							
	Resistenza tau0	150.0							
	Resistenza fvim	1120.0							
	Resistenza fb	4000.0							
	Resistenza fbh	800.0							
	Resistenza fbt	400.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
29	muratura E = 6900.00 Muratura in pietrame disordinata			6.900e+05	0.0	1150.0	0.2	1.00e-05	
	Resistenza f	600.0							
	Resistenza fh	300.0							
	Resistenza fv0	20.0							
	Resistenza fv0h	20.0							
	Resistenza tau0	30.0							
	Resistenza fvim	336.0							
	Resistenza fb	1200.0							
	Resistenza fbh	240.0							

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Resistenza fbt	120.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
30	muratura E = 1.020e+04 Muratura a conci sbozzati, con paramento di limitato spessore e nucleo interno			1.020e+06	0.0	1700.0	0.2	1.00e-05	
	Resistenza f	1100.0							
	Resistenza fh	550.0							
	Resistenza fv0	35.0							
	Resistenza fv0h	35.0							
	Resistenza tau0	52.5							
	Resistenza fvlim	616.0							
	Resistenza fb	2200.0							
	Resistenza fbh	440.0							
	Resistenza fbt	220.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
31	muratura E = 1.500e+04 Muratura in pietre a spacco con buona tessitura			1.500e+06	0.0	2500.0	0.2	1.00e-05	
	Resistenza f	1500.0							
	Resistenza fh	750.0							
	Resistenza fv0	56.0							
	Resistenza fv0h	56.0							
	Resistenza tau0	84.0							
	Resistenza fvlim	840.0							
	Resistenza fb	3000.0							
	Resistenza fbh	600.0							
	Resistenza fbt	300.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
32	muratura E = 9000.00 Muratura a conci di pietra tenera			9.000e+05	0.0	1500.0	0.2	1.00e-05	
	Resistenza f	800.0							
	Resistenza fh	400.0							
	Resistenza fv0	28.0							
	Resistenza fv0h	28.0							
	Resistenza tau0	42.0							
	Resistenza fvlim	448.0							
	Resistenza fb	1600.0							
	Resistenza fbh	320.0							
	Resistenza fbt	160.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
33	muratura E = 2.340e+04 Muratura a blocchi lapidei squadri			2.340e+06	0.0	3900.0	0.2	1.00e-05	
	Resistenza f	3000.0							
	Resistenza fh	1500.0							
	Resistenza fv0	78.0							
	Resistenza fv0h	78.0							
	Resistenza tau0	117.0							
	Resistenza fvlim	1500.0							
	Resistenza fb	6000.0							
	Resistenza fbh	1200.0							
	Resistenza fbt	600.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
34	muratura E = 1.800e+04 Muratura in mattoni pieni e malta di calce			1.800e+06	0.0	3000.0	0.2	1.00e-05	
	Resistenza f	1800.0							
	Resistenza fh	900.0							
	Resistenza fv0	60.0							
	Resistenza fv0h	60.0							
	Resistenza tau0	90.0							
	Resistenza fvim	1008.0							
	Resistenza fb	3600.0							
	Resistenza fbh	720.0							
	Resistenza fbt	360.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
35	muratura E = 2.800e+04 Muratura in mattoni semipieni con malta cementizia			2.800e+06	0.0	5600.0	0.1	1.00e-05	
	Resistenza f	3800.0							
	Resistenza fh	1900.0							
	Resistenza fv0	240.0							
	Resistenza fv0h	240.0							
	Resistenza tau0	360.0							
	Resistenza fvim	1500.0							
	Resistenza fb	7600.0							
	Resistenza fbh	1520.0							
	Resistenza fbt	760.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
36	muratura E = 3.400e+04 Muratura in blocchi laterizi forati (perc. foratura < 45%)			3.400e+06	0.0	6800.0	0.1	1.00e-05	
	Resistenza f	4600.0							
	Resistenza fh	2300.0							
	Resistenza fv0	300.0							
	Resistenza fv0h	300.0							
	Resistenza tau0	450.0							
	Resistenza fvim	1500.0							
	Resistenza fb	9200.0							
	Resistenza fbh	1840.0							
	Resistenza fbt	920.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
37	muratura E = 2.580e+04 Muratura in laterizi forati, con giunti verticali a secco (perc. foratura < 45%)			2.580e+06	0.0	4300.0	0.1	1.00e-05	
	Resistenza f	3000.0							
	Resistenza fh	1500.0							
	Resistenza fv0	100.0							
	Resistenza fv0h	100.0							
	Resistenza tau0	150.0							
	Resistenza fvim	1500.0							
	Resistenza fb	6000.0							
	Resistenza fbh	1200.0							
	Resistenza fbt	600.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
38	muratura E = 2.200e+04 Muratura in blocchi di calcestruzzo (perc. foratura tra 45 % e 65%)			2.200e+06	0.0	4400.0	0.1	1.00e-05	

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Resistenza f	1500.0							
	Resistenza fh	750.0							
	Resistenza fv0	95.0							
	Resistenza fv0h	95.0							
	Resistenza tau0	142.5							
	Resistenza fvlm	840.0							
	Resistenza fb	3000.0							
	Resistenza fbh	600.0							
	Resistenza fbt	300.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
39	muratura E = 2.700e+04 Muratura in blocchi di calcestruzzo semipieni			2.700e+06	0.0	5400.0	0.1	1.00e-05	
	Resistenza f	3000.0							
	Resistenza fh	1500.0							
	Resistenza fv0	180.0							
	Resistenza fv0h	180.0							
	Resistenza tau0	270.0							
	Resistenza fvlm	1500.0							
	Resistenza fb	6000.0							
	Resistenza fbh	1200.0							
	Resistenza fbt	600.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
40	muratura E = 2.000e+04 mattoni in argilla espansa e cls con malta M2			2.000e+06	0.20	8300.0	0.1	1.00e-05	
	Resistenza f	6000.0							
	Resistenza fh	3000.0							
	Resistenza fv0	200.0							
	Resistenza fv0h	200.0							
	Resistenza tau0	300.0							
	Resistenza fvlm	1500.0							
	Resistenza fb	1.200e+04							
	Resistenza fbh	2400.0							
	Resistenza fbt	1200.0							
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Coefficiente mu (tilda)								0.40
	Coefficiente fi								0.50
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
41	legno lamellare incollato combinato GL28c - UNI EN 1194 2000 Per EC5			1.260e+07	0.0	7200.0	4.00e-02	0.0	
	Modulo E0,05			1.020e+07					
	Lamellare : SI								
	Resistenza fc0	2.400e+04							
	Resistenza ft0	1.650e+04							
	Resistenza fm	2.800e+04							
	Resistenza fv	2700.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
42	legno conifera C24 - UNI EN 338 1997 Per EC5			1.100e+07	0.0	6900.0	4.00e-02	0.0	
	Modulo E0,05			7.400e+06					
	Lamellare : NO								
	Resistenza fc0	2.100e+04							
	Resistenza ft0	1.400e+04							
	Resistenza fm	2.400e+04							
	Resistenza fv	2500.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
43	legno lamellare incollato omogeneo GL28h - UNI EN 1194 2000 Per EC5			1.260e+07	0.0	7800.0	4.00e-02	0.0	
	Modulo E0,05			1.020e+07					
	Lamellare : SI								

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
	Resistenza fc0	2.650e+04							
	Resistenza ft0	1.950e+04							
	Resistenza fm	2.800e+04							
	Resistenza fv	3200.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
44	legno E = 1.160e+05 Cat II per Regles			1.160e+07	0.0	4.060e+04	8.00e-02	1.00e-05	
	Modulo E0,05			9.396e+06					
	Lamellare : NO								
	Resistenza fc0	1.020e+04							
	Resistenza ft0	9200.0							
	Resistenza fm	1.170e+04							
	Resistenza fv	1500.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
45	legno E = 1.300e+05 Cat I per Regles			1.300e+07	0.0	4.560e+04	8.00e-02	1.00e-05	
	Modulo E0,05			1.053e+07					
	Lamellare : NO								
	Resistenza fc0	1.280e+04							
	Resistenza ft0	1.530e+04							
	Resistenza fm	1.380e+04							
	Resistenza fv	2000.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
46	c.a. inf. rigi.			3.122e+10	0.12	1.394e+08	0.3	1.00e-05	
	Resistenza Rc	3.000e+04							
	Resistenza fctm		2607.0						
	Rapporto Rfessurata								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
47	acciaio inf. rigi.			2.100e+11	0.30	8.077e+08	0.0	1.00e-05	
	Tensione ft	3.600e+05							
	Resistenza fd	2.350e+05							
	Resistenza fd (>40)	2.100e+05							
	Tensione ammissibile	1.600e+05							
	Tensione ammissibile (>40)	1.400e+05							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
48	acciaio NO rigi.			2.100e+05	0.30	807.7	0.0	1.00e-05	
	Tensione ft	3.600e+05							
	Resistenza fd	2.350e+05							
	Resistenza fd (>40)	2.100e+05							
	Tensione ammissibile	1.600e+05							
	Tensione ammissibile (>40)	1.400e+05							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05

Pareti c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
<b>Generalità</b>						
Progetto armatura	Singolo elemento NON DISSIPATIVO	Singolo elemento	Singolo elemento			
<b>Armatura</b>						
Inclinazione Av [ gradi ]	90.00	90.00	90.00			
Angolo Av-Ao [ gradi ]	90.00	90.00	90.00			
Minima tesa	0.25	0.25	0.25			
Massima tesa	4.00	4.00	4.00			
Maglia unica centrale	NO	NO	NO			
Unico strato verticale	NO	NO	NO			
Unico strato orizzontale	NO	NO	NO			
Copriferro [ cm ]	5.00	5.00	5.00			
<b>Maglia V</b>						
diametro	18	30	30			
passo	15	20	20			
diametro aggiuntivi	18	30	30			
<b>Maglia O</b>						
diametro	12	20	20			
passo	20	20	20			
diametro aggiuntivi	12	20	20			
<b>Stati limite ultimi</b>						



<b>Pareti c.a.</b>	<b>1/7/..</b>	<b>2/8/..</b>	<b>3/9/..</b>	<b>4/10/..</b>	<b>5/11/..</b>	<b>6/12/..</b>
Tensione fy [kN/ m2 ]	430000.00	430000.00	430000.00			
Tipo acciaio	tipo C	tipo C	tipo C			
Coefficiente gamma s	1.15	1.15	1.15			
Coefficiente gamma c	1.50	1.50	1.50			
Verifiche con N costante	SI	SI	SI			
<b>Tensioni ammissibili</b>						
Tensione amm. cls [kN/ m2 ]	9750.00	9750.00	9750.00			
Tensione amm. acciaio [kN/ m2 ]	260000.00	260000.00	260000.00			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Massimo rapporto area compressa/tesa	1.00	1.00	1.00			
<b>Parete estesa debolmente armata</b>						
Fattore amplificazione taglio V	1.50	1.50	1.50			
Hcrit. par. 7.4.4.5.1 [ cm ]	0.0	0.0	0.0			
Hcrit. par. 7.4.6.1.4 [ cm ]	0.0	0.0	0.0			
Diagramma involuppo taglio	NO	NO	NO			
Vincolo lati	nessun lato	nessun lato	nessun lato			
Verifica come fascia	NO	NO	NO			
Diametro di estremità	0	0	0			
<b>Zona confinata</b>						
Minima tesa	1.00	1.00	1.00			
Massima tesa	4.00	4.00	4.00			
Distanza barre [ cm ]	2.00	2.00	2.00			
Interferro	2	2	2			
<b>Armatura inclinata</b>						
Area barre [ cm2 ]	0.0	0.0	0.0			
Angolo orizzontale [ gradi ]	0.0	0.0	0.0			
Distanza di base [ cm ]	0.0	0.0	0.0			
<b>Resistenza al fuoco</b>						
3- intradosso	NO	NO	NO			
3+ estradosso	NO	SI	SI			
Tempo di esposizione R	120	120	120			

<b>Gusci c.a.</b>	<b>1/7/..</b>	<b>2/8/..</b>	<b>3/9/..</b>	<b>4/10/..</b>	<b>5/11/..</b>	<b>6/12/..</b>
<b>Armatura</b>						
Inclinazione Ax [ gradi ]	0.0	0.0	0.0			
Angolo Ax-Ay [ gradi ]	90.00	90.00	90.00			
Minima tesa	0.20	0.33	0.33			
Massima tesa	3.00	0.81	0.81			
Maglia unica centrale	NO	NO	NO			
Copriferro [ cm ]	5.00	5.00	5.00			
<b>Maglia x</b>						
diametro	30	18	18			
passo	12	15	15			
diametro aggiuntivi	30	18	18			
<b>Maglia y</b>						
diametro	30	18	18			
passo	12	15	15			
diametro aggiuntivi	30	18	18			
<b>Stati limite ultimi</b>						
Tensione fy [kN/ m2 ]	430000.00	430000.00	430000.00			
Tipo acciaio	tipo C	tipo C	tipo C			
Coefficiente gamma s	1.15	1.15	1.15			
Coefficiente gamma c	1.50	1.50	1.50			
Verifiche con N costante	SI	SI	SI			
Applica SLU da DIN	NO	NO	NO			
<b>Tensioni ammissibili</b>						
Tensione amm. cls [kN/ m2 ]	9750.00	9750.00	9750.00			
Tensione amm. acciaio [kN/ m2 ]	260000.00	260000.00	260000.00			
Rapporto omogeneizzazione N	15.00	15.00	15.00			
Massimo rapporto area compressa/tesa	1.00	1.00	1.00			
<b>Resistenza al fuoco</b>						
3- intradosso	NO	NO	NO			
3+ estradosso	SI	NO	NO			
Tempo di esposizione R	120	120	120			

## 5 MODELLAZIONE DELLE SEZIONI

### 5.1 LEGENDA TABELLA DATI SEZIONI

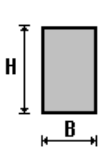
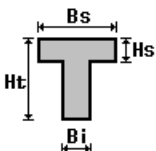
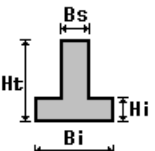
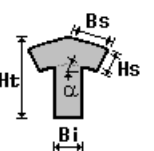
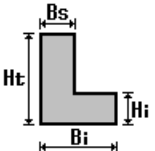
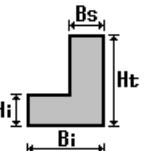
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

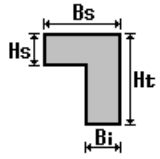
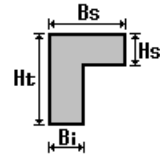
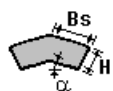
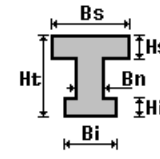
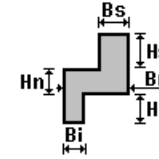
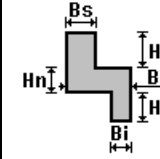
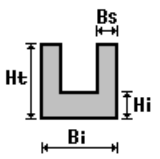
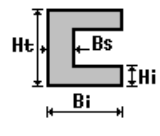
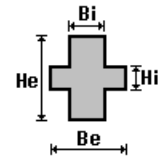
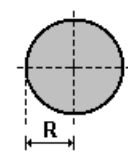
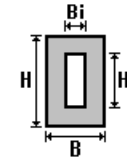
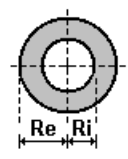
1. sezione di tipo generico
2. profilati semplici
3. profilati accoppiati e speciali

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

 <p>a L specchiata rovescia</p>	 <p>a L rovescia</p>	 <p>a L di colmo</p>	 <p>a doppio T</p>	 <p>a quattro specchiata</p>	 <p>a quattro</p>
 <p>a U</p>	 <p>a C</p>	 <p>a croce</p>	 <p>circolare</p>	 <p>rettangolare cava</p>	 <p>circolare cava</p>

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

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

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

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

Con riferimento al Documento di Affidabilità "Test di validazione del software di calcolo PRO\_SAP e dei moduli aggiuntivi PRO\_SAP Modulo Geotecnico, PRO\_CAD nodi acciaio e PRO\_MST" - versione Settembre 2014, disponibile per il download sul sito [www.2si.it](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

## 6 MODELLAZIONE STRUTTURA: NODI

### 6.1 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 $T_x T_y T_z R_x R_y R_z$ , 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. 14/01/08

### 6.1.1 TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	0.2	927.5	-354.0	2	0.0	297.5	-354.0	3	315.2	927.5	-354.0
4	-1.30e-04	523.8	-79.0	5	315.2	389.7	-354.0	6	315.2	295.5	-354.0
7	550.2	927.5	-354.0	8	550.2	500.2	-354.0	9	730.2	500.2	-354.0
10	730.2	0.0	-354.0	11	315.2	0.0	-354.0	12	0.0	0.0	-354.0
13	315.2	295.5	-262.3	14	315.2	389.7	-262.3	15	315.2	295.5	-170.7
16	315.2	389.7	-170.7	17	315.2	295.5	-79.0	18	315.2	389.7	-79.0
19	315.2	223.1	-79.0	20	315.2	148.8	-79.0	21	402.7	223.1	-79.0
22	227.7	74.4	-79.0	23	315.2	74.4	-79.0	24	402.7	74.4	-79.0
25	730.2	500.2	-262.3	26	640.2	500.2	-262.3	27	640.2	500.2	-354.0
28	730.2	500.2	-170.7	29	640.2	500.2	-170.7	30	730.2	500.2	-79.0
31	640.2	500.2	-79.0	32	550.2	500.2	-262.3	33	550.2	500.2	-170.7
34	550.2	500.2	-79.0	35	730.2	4.03e-05	-262.3	36	640.2	4.03e-05	-262.3
37	637.7	0.0	-354.0	38	730.2	4.03e-05	-170.7	39	640.2	4.03e-05	-170.7
40	730.2	4.03e-05	-79.0	41	637.7	0.0	-79.0	42	550.2	4.03e-05	-262.3
43	550.2	4.03e-05	-170.7	44	550.2	4.03e-05	-79.0	45	462.7	391.7	-79.0
46	462.7	297.5	-79.0	47	550.2	4.03e-05	-354.0	48	462.7	148.8	-79.0
49	637.7	391.7	-79.0	50	550.2	148.8	-79.0	51	550.2	297.5	-79.0
52	637.7	297.5	-79.0	53	462.7	523.8	-79.0	54	462.7	223.1	-79.0
55	730.2	74.4	-79.0	56	462.7	0.0	-262.3	57	462.7	0.0	-354.0
58	462.7	0.0	-170.7	59	462.7	0.0	-79.0	60	402.7	0.0	-262.3
61	402.7	0.0	-354.0	62	402.7	0.0	-170.7	63	402.7	0.0	-79.0
64	315.2	0.0	-262.3	65	315.2	0.0	-170.7	66	315.2	0.0	-79.0
67	227.7	0.0	-262.3	68	227.7	0.0	-354.0	69	227.7	0.0	-170.7
70	227.7	0.0	-79.0	71	175.0	0.0	-262.3	72	175.0	0.0	-354.0
73	175.0	0.0	-170.7	74	175.0	0.0	-79.0	75	-1.08e-04	457.7	-262.3
76	-1.08e-04	457.7	-354.0	77	-1.08e-04	457.7	-170.7	78	-1.08e-04	457.7	-79.0
79	0.0	0.0	-262.3	80	0.0	0.0	-170.7	81	0.0	0.0	-79.0
82	550.2	571.4	-262.3	83	550.2	571.4	-354.0	84	550.2	571.4	-170.7
85	550.2	571.4	-79.0	86	550.2	642.6	-262.3	87	550.2	642.6	-354.0
88	550.2	642.6	-170.7	89	550.2	642.6	-79.0	90	550.2	713.9	-262.3
91	550.2	713.9	-354.0	92	550.2	713.9	-170.7	93	550.2	713.9	-79.0
94	550.2	785.1	-262.3	95	550.2	785.1	-354.0	96	550.2	785.1	-170.7
97	550.2	785.1	-79.0	98	550.2	856.3	-262.3	99	550.2	856.3	-354.0
100	550.2	856.3	-170.7	101	550.2	856.3	-79.0	102	550.2	927.5	-262.3
103	550.2	927.5	-170.7	104	550.2	927.5	-79.0	105	315.2	571.4	-262.3
106	315.2	571.4	-354.0	107	315.2	571.4	-170.7	108	315.2	571.4	-79.0
109	315.2	642.6	-262.3	110	315.2	642.6	-354.0	111	315.2	642.6	-170.7
112	315.2	642.6	-79.0	113	315.2	713.9	-262.3	114	315.2	713.9	-354.0
115	315.2	713.9	-170.7	116	315.2	713.9	-79.0	117	315.2	785.1	-262.3
118	315.2	785.1	-354.0	119	315.2	785.1	-170.7	120	315.2	785.1	-79.0
121	315.2	856.3	-262.3	122	315.2	856.3	-354.0	123	315.2	856.3	-170.7
124	315.2	856.3	-79.0	125	315.2	927.5	-262.3	126	315.2	927.5	-170.7
127	315.2	927.5	-79.0	128	0.2	571.4	-262.3	129	0.2	571.4	-354.0
130	0.2	571.4	-170.7	131	0.2	571.4	-79.0	132	0.2	642.6	-262.3
133	0.2	642.6	-354.0	134	0.2	642.6	-170.7	135	0.2	642.6	-79.0
136	0.2	713.9	-262.3	137	0.2	713.9	-354.0	138	0.2	713.9	-170.7
139	0.2	713.9	-79.0	140	0.2	785.1	-262.3	141	0.2	785.1	-354.0
142	0.2	785.1	-170.7	143	0.2	785.1	-79.0	144	0.2	856.3	-262.3
145	0.2	856.3	-354.0	146	0.2	856.3	-170.7	147	0.2	856.3	-79.0
148	0.2	927.5	-262.3	149	0.2	927.5	-170.7	150	0.2	927.5	-79.0
151	-8.64e-05	391.7	-354.0	152	-8.64e-05	391.7	-79.0	153	-8.64e-05	297.5	-262.3
154	-8.64e-05	391.7	-262.3	155	-8.64e-05	297.5	-170.7	156	-8.64e-05	391.7	-170.7
157	-8.64e-05	297.5	-79.0	158	315.2	500.2	-354.0	159	315.2	500.2	-262.3
160	315.2	500.2	-170.7	161	315.2	500.2	-79.0	162	-1.30e-04	523.8	-354.0
163	-1.30e-04	523.8	-262.3	164	-1.30e-04	523.8	-170.7	165	-4.32e-05	148.8	-79.0
166	637.7	223.1	-79.0	167	175.0	523.8	-79.0	168	175.0	148.8	-79.0
169	637.7	148.8	-79.0	170	87.5	0.0	-262.3	171	87.5	0.0	-354.0
172	87.5	0.0	-170.7	173	87.5	0.0	-79.0	174	315.2	523.8	-79.0
175	87.5	523.8	-79.0	176	315.2	523.8	-354.0	177	315.2	523.8	-262.3
178	315.2	523.8	-170.7	179	550.2	523.8	-79.0	180	550.2	523.8	-354.0

181	550.2	523.8	-262.3	182	550.2	523.8	-170.7	183	87.5	457.7	-79.0
184	175.0	457.7	-79.0	185	87.5	391.7	-79.0	186	175.0	391.7	-79.0
187	87.5	297.5	-79.0	188	175.0	297.5	-79.0	189	-4.32e-05	223.1	-79.0
190	87.5	223.1	-79.0	191	87.5	148.8	-79.0	192	175.0	223.1	-79.0
193	0.0	74.4	-79.0	194	87.5	74.4	-79.0	195	175.0	74.4	-79.0
196	227.7	523.8	-79.0	197	462.7	74.4	-79.0	198	227.7	457.7	-79.0
199	550.2	74.4	-79.0	200	227.7	391.7	-79.0	201	227.7	297.5	-79.0
202	227.7	148.8	-79.0	203	637.7	74.4	-79.0	204	402.7	523.8	-79.0
205	402.7	148.8	-79.0	206	550.2	457.7	-79.0	207	637.7	457.7	-79.0
208	550.2	391.7	-79.0	209	315.2	457.7	-79.0	210	402.7	457.7	-79.0
211	462.7	457.7	-79.0	212	402.7	391.7	-79.0	213	550.2	223.1	-79.0
214	402.7	297.5	-79.0	215	227.7	223.1	-79.0	216	730.2	391.7	-79.0
217	730.2	297.5	-79.0	218	730.2	223.1	-79.0	219	730.2	148.8	-79.0
220	730.2	457.7	-79.0	221	730.2	391.7	-354.0	222	730.2	297.5	-354.0
223	730.2	223.1	-354.0	224	730.2	148.7	-354.0	225	730.2	457.7	-354.0
226	730.2	74.4	-354.0	227	730.2	74.4	-262.3	228	730.2	74.4	-170.7
229	730.2	148.7	-262.3	230	730.2	148.7	-170.7	231	730.2	223.1	-262.3
232	730.2	223.1	-170.7	233	730.2	297.5	-262.3	234	730.2	297.5	-170.7
235	730.2	391.7	-262.3	236	730.2	391.7	-170.7	237	730.2	457.7	-262.3
238	730.2	457.7	-170.7	239	402.7	148.8	-354.0	240	87.5	571.4	-79.0
241	87.5	642.6	-79.0	242	87.5	713.9	-79.0	243	87.5	785.1	-79.0
244	87.5	856.3	-79.0	245	87.5	927.5	-79.0	246	175.0	571.4	-79.0
247	175.0	642.6	-79.0	248	175.0	713.9	-79.0	249	175.0	785.1	-79.0
250	175.0	856.3	-79.0	251	175.0	927.5	-79.0	252	227.7	571.4	-79.0
253	227.7	642.6	-79.0	254	227.7	713.9	-79.0	255	227.7	785.1	-79.0
256	227.7	856.3	-79.0	257	227.7	927.5	-79.0	258	402.7	571.4	-79.0
259	402.7	642.6	-79.0	260	402.7	713.9	-79.0	261	402.7	785.1	-79.0
262	402.7	856.3	-79.0	263	402.7	927.5	-79.0	264	462.7	571.4	-79.0
265	462.7	642.6	-79.0	266	462.7	713.9	-79.0	267	462.7	785.1	-79.0
268	462.7	856.3	-79.0	269	462.7	927.5	-79.0	270	550.2	391.7	-354.0
271	315.2	457.7	-354.0	272	402.7	457.7	-354.0	273	315.2	223.1	-354.0
274	315.2	148.8	-354.0	275	402.7	223.1	-354.0	276	227.7	74.4	-354.0
277	315.2	74.4	-354.0	278	402.7	74.4	-354.0	279	462.7	457.7	-354.0
280	402.7	391.7	-354.0	281	550.2	223.1	-354.0	282	402.7	297.5	-354.0
283	550.2	457.7	-354.0	284	227.7	223.1	-354.0	285	462.7	391.7	-354.0
286	462.7	297.5	-354.0	287	462.7	148.8	-354.0	288	637.7	391.7	-354.0
289	550.2	148.8	-354.0	290	550.2	297.5	-354.0	291	637.7	297.5	-354.0
292	462.7	523.8	-354.0	293	462.7	223.1	-354.0	294	462.7	642.6	-354.0
295	462.7	713.9	-354.0	296	462.7	785.1	-354.0	297	462.7	856.3	-354.0
298	462.7	927.5	-354.0	299	637.7	457.7	-354.0	300	87.5	571.4	-354.0
301	87.5	642.6	-354.0	302	87.5	713.9	-354.0	303	87.5	785.1	-354.0
304	87.5	856.3	-354.0	305	87.5	927.5	-354.0	306	175.0	571.4	-354.0
307	175.0	642.6	-354.0	308	175.0	713.9	-354.0	309	175.0	785.1	-354.0
310	175.0	856.3	-354.0	311	175.0	927.5	-354.0	312	227.7	571.4	-354.0
313	227.7	642.6	-354.0	314	227.7	713.9	-354.0	315	227.7	785.1	-354.0
316	227.7	856.3	-354.0	317	227.7	927.5	-354.0	318	402.7	571.4	-354.0
319	402.7	642.6	-354.0	320	402.7	713.9	-354.0	321	402.7	785.1	-354.0
322	-4.32e-05	148.8	-354.0	323	637.7	223.1	-354.0	324	175.0	523.8	-354.0
325	175.0	148.8	-354.0	326	637.7	148.8	-354.0	327	402.7	856.3	-354.0
328	402.7	927.5	-354.0	329	87.5	523.8	-354.0	330	462.7	571.4	-354.0
331	87.5	457.7	-354.0	332	175.0	457.7	-354.0	333	87.5	391.7	-354.0
334	175.0	391.7	-354.0	335	87.5	297.5	-354.0	336	175.0	297.5	-354.0
337	-4.32e-05	223.1	-354.0	338	87.5	223.1	-354.0	339	87.5	148.8	-354.0
340	175.0	223.1	-354.0	341	0.0	74.4	-354.0	342	87.5	74.4	-354.0
343	175.0	74.4	-354.0	344	227.7	523.8	-354.0	345	462.7	74.4	-354.0
346	227.7	457.7	-354.0	347	550.2	74.4	-354.0	348	227.7	391.7	-354.0
349	227.7	297.5	-354.0	350	227.7	148.8	-354.0	351	637.7	74.4	-354.0
352	402.7	523.8	-354.0								

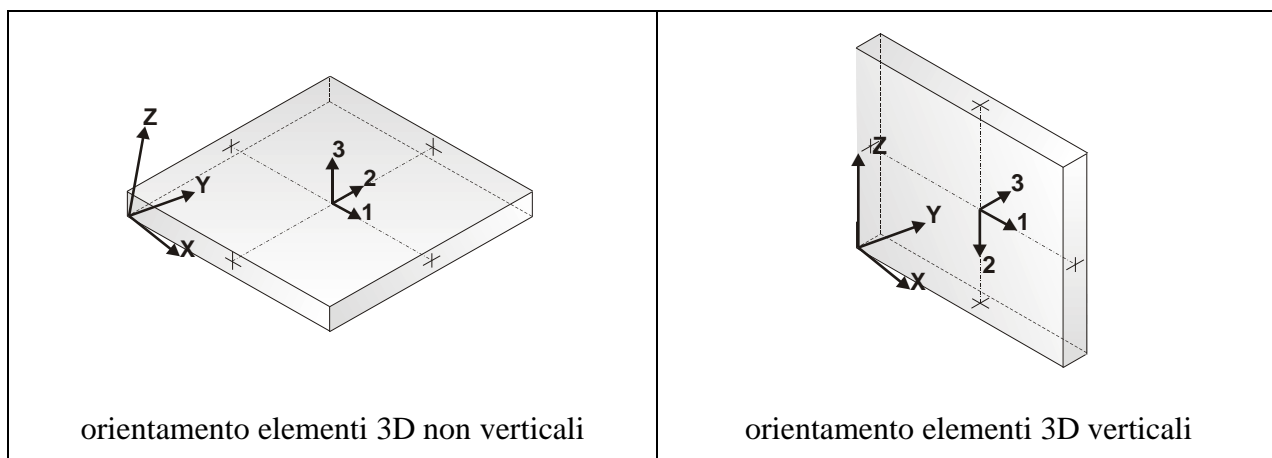
## 7 MODELLAZIONE STRUTTURA: ELEMENTI SHELL

### 7.1 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.



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>Svincolo</b>	codice di svincolo dell'elemento con riferimento ai nodi che definiscono il lato dell'elemento a cui è stato assegnato lo svincolo
<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
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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:

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

<b>Elem.</b>	<b>Note</b>	<b>Nodo I</b>	<b>Nodo J</b>	<b>Nodo K</b>	<b>Nodo L</b>	<b>Mat.</b>	<b>Spessore</b> cm	<b>Svincolo</b>	<b>Wink V</b> daN/cm3	<b>Wink O</b> daN/cm3
1	Setto	6	5	14	13	1	35.0			
2	Setto	13	14	16	15	1	35.0			

3	Setto	15	16	18	17	1	35.0
4	Guscio	74	70	22	195	1	35.0
5	Guscio	195	22	202	168	1	35.0
6	Guscio	168	202	215	192	1	35.0
7	Setto	26	25	9	27	1	35.0
8	Setto	29	28	25	26	1	35.0
9	Setto	31	30	28	29	1	35.0
10	Setto	32	26	27	8	1	35.0
11	Setto	33	29	26	32	1	35.0
12	Setto	34	31	29	33	1	35.0
13	Setto	36	35	10	37	1	35.0
14	Setto	39	38	35	36	1	35.0
15	Setto	41	40	38	39	1	35.0
16	Setto	42	36	37	47	1	35.0
17	Setto	43	39	36	42	1	35.0
18	Setto	44	41	39	43	1	35.0
19	Guscio	192	215	201	188	1	35.0
20	Guscio	188	201	200	186	1	35.0
21	Guscio	186	200	198	184	1	35.0
22	Guscio	184	198	196	167	1	35.0
23	Guscio	210	211	53	204	1	35.0
24	Guscio	212	45	211	210	1	35.0
25	Guscio	214	46	45	212	1	35.0
26	Guscio	21	54	46	214	1	35.0
27	Guscio	205	48	54	21	1	35.0
28	Guscio	24	197	48	205	1	35.0
29	Guscio	63	59	197	24	1	35.0
30	Guscio	41	40	55	203	1	35.0
31	Setto	56	42	47	57	1	35.0
32	Setto	58	43	42	56	1	35.0
33	Setto	59	44	43	58	1	35.0
34	Setto	60	56	57	61	1	35.0
35	Setto	62	58	56	60	1	35.0
36	Setto	63	59	58	62	1	35.0
37	Setto	64	60	61	11	1	35.0
38	Setto	65	62	60	64	1	35.0
39	Setto	66	63	62	65	1	35.0
40	Setto	67	64	11	68	1	35.0
41	Setto	69	65	64	67	1	35.0
42	Setto	70	66	65	69	1	35.0
43	Setto	71	67	68	72	1	35.0
44	Setto	73	69	67	71	1	35.0
45	Setto	74	70	69	73	1	35.0
46	Setto	76	162	163	75	1	35.0
47	Setto	75	163	164	77	1	35.0
48	Setto	77	164	4	78	1	35.0
49	Setto	151	76	75	154	1	35.0
50	Setto	154	75	77	156	1	35.0
51	Setto	156	77	78	152	1	35.0
52	Setto	158	176	177	159	1	35.0
53	Setto	159	177	178	160	1	35.0
54	Setto	160	178	174	161	1	35.0
55	Setto	83	87	86	82	1	35.0
56	Setto	82	86	88	84	1	35.0
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66	Setto	96	100	101	97	1	35.0
67	Setto	99	7	102	98	1	35.0
68	Setto	98	102	103	100	1	35.0
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70	Setto	79	170	171	12	1	35.0
71	Setto	80	172	170	79	1	35.0
72	Setto	81	173	172	80	1	35.0
73	Setto	106	110	109	105	1	35.0
74	Setto	105	109	111	107	1	35.0
75	Setto	107	111	112	108	1	35.0
76	Setto	110	114	113	109	1	35.0
77	Setto	109	113	115	111	1	35.0

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79	Setto	114	118	117	113	1	35.0		
80	Setto	113	117	119	115	1	35.0		
81	Setto	115	119	120	116	1	35.0		
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83	Setto	117	121	123	119	1	35.0		
84	Setto	119	123	124	120	1	35.0		
85	Setto	122	3	125	121	1	35.0		
86	Setto	121	125	126	123	1	35.0		
87	Setto	123	126	127	124	1	35.0		
88	Guscio fond.	295	91	95	296	1	35.0	3.70	3.00
89	Guscio fond.	296	95	99	297	1	35.0	3.70	3.00
90	Guscio fond.	297	99	7	298	1	35.0	3.70	3.00
91	Setto	129	133	132	128	1	35.0		
92	Setto	128	132	134	130	1	35.0		
93	Setto	130	134	135	131	1	35.0		
94	Setto	133	137	136	132	1	35.0		
95	Setto	132	136	138	134	1	35.0		
96	Setto	134	138	139	135	1	35.0		
97	Setto	137	141	140	136	1	35.0		
98	Setto	136	140	142	138	1	35.0		
99	Setto	138	142	143	139	1	35.0		
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101	Setto	140	144	146	142	1	35.0		
102	Setto	142	146	147	143	1	35.0		
103	Setto	145	1	148	144	1	35.0		
104	Setto	144	148	149	146	1	35.0		
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106	Setto	2	151	154	153	1	35.0		
107	Setto	153	154	156	155	1	35.0		
108	Setto	155	156	152	157	1	35.0		
109	Setto	170	71	72	171	1	35.0		
110	Setto	172	73	71	170	1	35.0		
111	Setto	173	74	73	172	1	35.0		
112	Setto	176	106	105	177	1	35.0		
113	Setto	177	105	107	178	1	35.0		
114	Setto	178	107	108	174	1	35.0		
115	Setto	8	180	181	32	1	35.0		
116	Setto	32	181	182	33	1	35.0		
117	Setto	33	182	179	34	1	35.0		
118	Setto	180	83	82	181	1	35.0		
119	Setto	181	82	84	182	1	35.0		
120	Setto	182	84	85	179	1	35.0		
121	Guscio	78	183	175	4	1	35.0		
122	Guscio	183	184	167	175	1	35.0		
123	Guscio	152	185	183	78	1	35.0		
124	Guscio	185	186	184	183	1	35.0		
125	Guscio	157	187	185	152	1	35.0		
126	Guscio	187	188	186	185	1	35.0		
127	Guscio	165	191	190	189	1	35.0		
128	Guscio	189	190	187	157	1	35.0		
129	Guscio	191	168	192	190	1	35.0		
130	Guscio	190	192	188	187	1	35.0		
131	Guscio	81	173	194	193	1	35.0		
132	Guscio	193	194	191	165	1	35.0		
133	Guscio	173	74	195	194	1	35.0		
134	Guscio	194	195	168	191	1	35.0		
135	Guscio	66	63	24	23	1	35.0		
136	Guscio	23	24	205	20	1	35.0		
137	Guscio	200	18	209	198	1	35.0		
138	Guscio	18	212	210	209	1	35.0		
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140	Guscio	17	214	212	18	1	35.0		
141	Guscio	202	20	19	215	1	35.0		
142	Guscio	215	19	17	201	1	35.0		
143	Guscio	20	205	21	19	1	35.0		
144	Guscio	19	21	214	17	1	35.0		
145	Guscio	70	66	23	22	1	35.0		
146	Guscio	22	23	20	202	1	35.0		
147	Guscio	198	209	161	196	1	35.0		
148	Guscio	196	161	174		1	35.0		
149	Guscio	174	161	204		1	35.0		
150	Guscio	209	210	204	161	1	35.0		
151	Guscio	44	41	203	199	1	35.0		
152	Guscio	199	203	169	50	1	35.0		

153	Guscio	45	208	206	211	1	35.0
154	Guscio	208	49	207	206	1	35.0
155	Guscio	46	51	208	45	1	35.0
156	Guscio	51	52	49	208	1	35.0
157	Guscio	48	50	213	54	1	35.0
158	Guscio	54	213	51	46	1	35.0
159	Guscio	50	169	166	213	1	35.0
160	Guscio	213	166	52	51	1	35.0
161	Guscio	59	44	199	197	1	35.0
162	Guscio	197	199	50	48	1	35.0
163	Guscio	211	206	34	53	1	35.0
164	Guscio	53	34	179		1	35.0
165	Guscio	206	207	31	34	1	35.0
166	Setto	10	226	227	35	1	35.0
167	Setto	35	227	228	38	1	35.0
168	Setto	38	228	55	40	1	35.0
169	Setto	226	224	229	227	1	35.0
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172	Setto	224	223	231	229	1	35.0
173	Setto	229	231	232	230	1	35.0
174	Setto	230	232	218	219	1	35.0
175	Setto	223	222	233	231	1	35.0
176	Setto	231	233	234	232	1	35.0
177	Setto	232	234	217	218	1	35.0
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185	Setto	237	25	28	238	1	35.0
186	Setto	238	28	30	220	1	35.0
187	Guscio	203	55	219	169	1	35.0
188	Guscio	169	219	218	166	1	35.0
189	Guscio	166	218	217	52	1	35.0
190	Guscio	52	217	216	49	1	35.0
191	Guscio	49	216	220	207	1	35.0
192	Guscio	207	220	30	31	1	35.0
193	Guscio	4	175	240	131	1	35.0
194	Guscio	131	240	241	135	1	35.0
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196	Guscio	139	242	243	143	1	35.0
197	Guscio	143	243	244	147	1	35.0
198	Guscio	147	244	245	150	1	35.0
199	Guscio	175	167	246	240	1	35.0
200	Guscio	240	246	247	241	1	35.0
201	Guscio	241	247	248	242	1	35.0
202	Guscio	242	248	249	243	1	35.0
203	Guscio	243	249	250	244	1	35.0
204	Guscio	244	250	251	245	1	35.0
205	Guscio	167	196	252	246	1	35.0
206	Guscio	246	252	253	247	1	35.0
207	Guscio	247	253	254	248	1	35.0
208	Guscio	248	254	255	249	1	35.0
209	Guscio	249	255	256	250	1	35.0
210	Guscio	250	256	257	251	1	35.0
211	Guscio	196	174	108	252	1	35.0
212	Guscio	252	108	112	253	1	35.0
213	Guscio	253	112	116	254	1	35.0
214	Guscio	254	116	120	255	1	35.0
215	Guscio	255	120	124	256	1	35.0
216	Guscio	256	124	127	257	1	35.0
217	Guscio	174	204	258	108	1	35.0
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219	Guscio	112	259	260	116	1	35.0
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221	Guscio	120	261	262	124	1	35.0
222	Guscio	124	262	263	127	1	35.0
223	Guscio	204	53	264	258	1	35.0
224	Guscio	258	264	265	259	1	35.0
225	Guscio	259	265	266	260	1	35.0
226	Guscio	260	266	267	261	1	35.0
227	Guscio	261	267	268	262	1	35.0

228	Guscio	262	268	269	263	1	35.0		
229	Guscio	53	179	85	264	1	35.0		
230	Guscio	264	85	89	265	1	35.0		
231	Guscio	265	89	93	266	1	35.0		
232	Guscio	266	93	97	267	1	35.0		
233	Guscio	267	97	101	268	1	35.0		
234	Guscio	268	101	104	269	1	35.0		
235	Guscio fond.	72	68	276	343	1	35.0	3.70	3.00
236	Guscio fond.	343	276	350	325	1	35.0	3.70	3.00
237	Guscio fond.	325	350	284	340	1	35.0	3.70	3.00
238	Guscio fond.	340	284	349	336	1	35.0	3.70	3.00
239	Guscio fond.	336	349	348	334	1	35.0	3.70	3.00
240	Guscio fond.	334	348	346	332	1	35.0	3.70	3.00
241	Guscio fond.	332	346	344	324	1	35.0	3.70	3.00
242	Guscio fond.	272	279	292	352	1	35.0	3.70	3.00
243	Guscio fond.	280	285	279	272	1	35.0	3.70	3.00
244	Guscio fond.	282	286	285	280	1	35.0	3.70	3.00
245	Guscio fond.	275	293	286	282	1	35.0	3.70	3.00
246	Guscio fond.	239	287	293	275	1	35.0	3.70	3.00
247	Guscio fond.	278	345	287	239	1	35.0	3.70	3.00
248	Guscio fond.	61	57	345	278	1	35.0	3.70	3.00
249	Guscio fond.	37	10	226	351	1	35.0	3.70	3.00
250	Guscio fond.	76	331	329	162	1	35.0	3.70	3.00
251	Guscio fond.	331	332	324	329	1	35.0	3.70	3.00
252	Guscio fond.	151	333	331	76	1	35.0	3.70	3.00
253	Guscio fond.	333	334	332	331	1	35.0	3.70	3.00
254	Guscio fond.	2	335	333	151	1	35.0	3.70	3.00
255	Guscio fond.	335	336	334	333	1	35.0	3.70	3.00
256	Guscio fond.	322	339	338	337	1	35.0	3.70	3.00
257	Guscio fond.	337	338	335	2	1	35.0	3.70	3.00
258	Guscio fond.	339	325	340	338	1	35.0	3.70	3.00
259	Guscio fond.	338	340	336	335	1	35.0	3.70	3.00
260	Guscio fond.	12	171	342	341	1	35.0	3.70	3.00
261	Guscio fond.	341	342	339	322	1	35.0	3.70	3.00
262	Guscio fond.	171	72	343	342	1	35.0	3.70	3.00
263	Guscio fond.	342	343	325	339	1	35.0	3.70	3.00
264	Guscio fond.	11	61	278	277	1	35.0	3.70	3.00
265	Guscio fond.	277	278	239	274	1	35.0	3.70	3.00
266	Guscio fond.	348	5	271	346	1	35.0	3.70	3.00
267	Guscio fond.	5	280	272	271	1	35.0	3.70	3.00
268	Guscio fond.	349	6	5	348	1	35.0	3.70	3.00
269	Guscio fond.	6	282	280	5	1	35.0	3.70	3.00
270	Guscio fond.	350	274	273	284	1	35.0	3.70	3.00
271	Guscio fond.	284	273	6	349	1	35.0	3.70	3.00
272	Guscio fond.	274	239	275	273	1	35.0	3.70	3.00
273	Guscio fond.	273	275	282	6	1	35.0	3.70	3.00
274	Guscio fond.	68	11	277	276	1	35.0	3.70	3.00
275	Guscio fond.	276	277	274	350	1	35.0	3.70	3.00
276	Guscio fond.	346	271	158	344	1	35.0	3.70	3.00
277	Guscio fond.	344	158	176		1	35.0	3.70	3.00
278	Guscio fond.	176	158	352		1	35.0	3.70	3.00
279	Guscio fond.	271	272	352	158	1	35.0	3.70	3.00
280	Guscio fond.	47	37	351	347	1	35.0	3.70	3.00
281	Guscio fond.	347	351	326	289	1	35.0	3.70	3.00
282	Guscio fond.	285	270	283	279	1	35.0	3.70	3.00
283	Guscio fond.	270	288	299	283	1	35.0	3.70	3.00
284	Guscio fond.	286	290	270	285	1	35.0	3.70	3.00
285	Guscio fond.	290	291	288	270	1	35.0	3.70	3.00
286	Guscio fond.	287	289	281	293	1	35.0	3.70	3.00
287	Guscio fond.	293	281	290	286	1	35.0	3.70	3.00
288	Guscio fond.	289	326	323	281	1	35.0	3.70	3.00
289	Guscio fond.	281	323	291	290	1	35.0	3.70	3.00
290	Guscio fond.	57	47	347	345	1	35.0	3.70	3.00
291	Guscio fond.	345	347	289	287	1	35.0	3.70	3.00
292	Guscio fond.	279	283	8	292	1	35.0	3.70	3.00
293	Guscio fond.	292	8	180		1	35.0	3.70	3.00
294	Guscio fond.	283	299	27	8	1	35.0	3.70	3.00
295	Guscio fond.	351	226	224	326	1	35.0	3.70	3.00
296	Guscio fond.	326	224	223	323	1	35.0	3.70	3.00
297	Guscio fond.	323	223	222	291	1	35.0	3.70	3.00
298	Guscio fond.	291	222	221	288	1	35.0	3.70	3.00
299	Guscio fond.	288	221	225	299	1	35.0	3.70	3.00
300	Guscio fond.	299	225	9	27	1	35.0	3.70	3.00
301	Guscio fond.	162	329	300	129	1	35.0	3.70	3.00
302	Guscio fond.	129	300	301	133	1	35.0	3.70	3.00

303	Guscio fond.	133	301	302	137	1	35.0	3.70	3.00
304	Guscio fond.	137	302	303	141	1	35.0	3.70	3.00
305	Guscio fond.	141	303	304	145	1	35.0	3.70	3.00
306	Guscio fond.	145	304	305	1	1	35.0	3.70	3.00
307	Guscio fond.	329	324	306	300	1	35.0	3.70	3.00
308	Guscio fond.	300	306	307	301	1	35.0	3.70	3.00
309	Guscio fond.	301	307	308	302	1	35.0	3.70	3.00
310	Guscio fond.	302	308	309	303	1	35.0	3.70	3.00
311	Guscio fond.	303	309	310	304	1	35.0	3.70	3.00
312	Guscio fond.	304	310	311	305	1	35.0	3.70	3.00
313	Guscio fond.	324	344	312	306	1	35.0	3.70	3.00
314	Guscio fond.	306	312	313	307	1	35.0	3.70	3.00
315	Guscio fond.	307	313	314	308	1	35.0	3.70	3.00
316	Guscio fond.	308	314	315	309	1	35.0	3.70	3.00
317	Guscio fond.	309	315	316	310	1	35.0	3.70	3.00
318	Guscio fond.	310	316	317	311	1	35.0	3.70	3.00
319	Guscio fond.	344	176	106	312	1	35.0	3.70	3.00
320	Guscio fond.	312	106	110	313	1	35.0	3.70	3.00
321	Guscio fond.	313	110	114	314	1	35.0	3.70	3.00
322	Guscio fond.	314	114	118	315	1	35.0	3.70	3.00
323	Guscio fond.	315	118	122	316	1	35.0	3.70	3.00
324	Guscio fond.	316	122	3	317	1	35.0	3.70	3.00
325	Guscio fond.	176	352	318	106	1	35.0	3.70	3.00
326	Guscio fond.	106	318	319	110	1	35.0	3.70	3.00
327	Guscio fond.	110	319	320	114	1	35.0	3.70	3.00
328	Guscio fond.	114	320	321	118	1	35.0	3.70	3.00
329	Guscio fond.	118	321	327	122	1	35.0	3.70	3.00
330	Guscio fond.	122	327	328	3	1	35.0	3.70	3.00
331	Guscio fond.	352	292	330	318	1	35.0	3.70	3.00
332	Guscio fond.	318	330	294	319	1	35.0	3.70	3.00
333	Guscio fond.	319	294	295	320	1	35.0	3.70	3.00
334	Guscio fond.	320	295	296	321	1	35.0	3.70	3.00
335	Guscio fond.	321	296	297	327	1	35.0	3.70	3.00
336	Guscio fond.	327	297	298	328	1	35.0	3.70	3.00
337	Guscio fond.	292	180	83	330	1	35.0	3.70	3.00
338	Guscio fond.	330	83	87	294	1	35.0	3.70	3.00
339	Guscio fond.	294	87	91	295	1	35.0	3.70	3.00
340	Setto	163	128	129	162	1	35.0		
341	Setto	164	130	128	163	1	35.0		
342	Setto	4	131	130	164	1	35.0		

## 8 MODELLAZIONE DELLE AZIONI

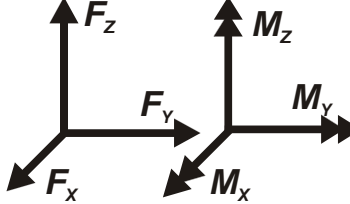
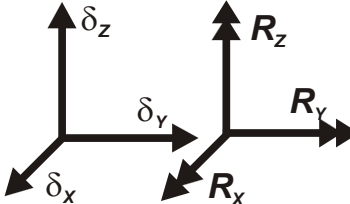
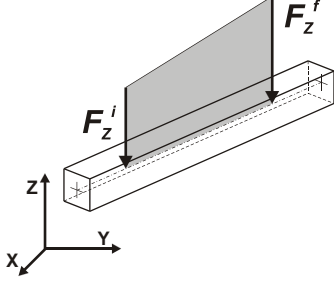
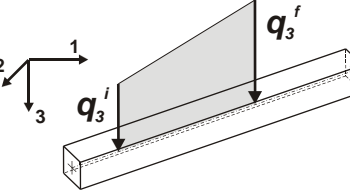
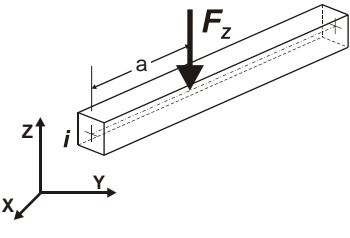
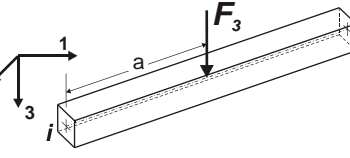
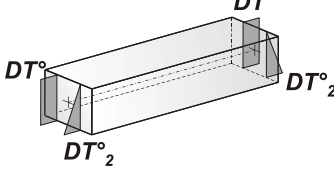
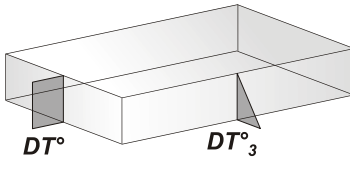
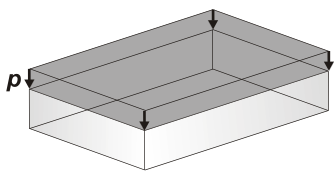
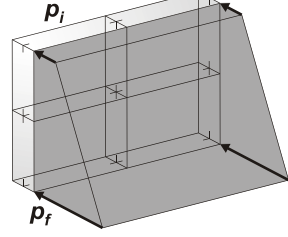
### 8.1 LEGENDA TABELLA DATI AZIONI

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)



<p><b>11 carico variabile generale su elementi tipo trave e piastra</b></p> <p>1 dato descrizione della tipologia</p> <p>4 dati per segmento (posizione, valore, posizione, valore)</p> <p>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</p>
<p><b>12 gruppo di carichi con impronta su piastra</b></p> <p>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)</p>

	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 di pressione uniforme su piastra**

Id	Tipo	pressione
		kN/ m2
2	TRAFFIC LOAD AT K0	-10.00
8	TRAFFIC Q1	54.24
9	TRAFFIC q1	9.00
15	SEISMIC EARTH LOAD	-6.55

**Tipo carico di pressione variabile su piastra**

Id	Tipo	pressione	quota	pressione	quota
		kN/ m2	m	kN/ m2	m
1	EARTH LOAD AT REST	0.0	0.0	-190.00	-20.00
5	WATER	0.0	0.0	-200.00	-20.00

**Tipo carico variabile generale**

Id	Tipo	ascissa	valore	ascissa	valore
		m	kN/ m2	m	kN/ m2
7	ROAD STRUCTURE				
	X - X Qz Area L2=0.0	0.0	-10.00	20.00	0.0

## 9 SCHEMATIZZAZIONE DEI CASI DI CARICO

### 9.1 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:

	<i>Sigla</i>	<i>Tipo</i>	<i>Descrizione</i>
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 Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

CDC	Tipo	Sigla Id	Note
1	Ggk	Ggk (SELF WEIGHT)	
2	Gk	G2k (DEAD LOAD)	Azioni applicate: D3 :da 4 a 6 Azione : ROAD STRUCTURE D3 :da 19 a 30 Azione : ROAD STRUCTURE D3 :da 121 a 165 Azione : ROAD STRUCTURE D3 :da 187 a 234 Azione : ROAD STRUCTURE
3	Gk	CDC=G1k (EARTH LOAD) .....	Azioni applicate: D3 :da 7 a 18 Azione : EARTH LOAD AT REST D3 :da 31 a 51 Azione : EARTH LOAD AT REST D3 :da 55 a 72 Azione : EARTH LOAD AT REST D3 :da 91 a 111 Azione : EARTH LOAD AT REST D3 :da 115 a 120 Azione : EARTH LOAD AT REST D3 :da 166 a 186 Azione : EARTH LOAD AT REST D3 :da 340 a 342 Azione : EARTH LOAD AT REST
4	Gk	CDC=G1k (TRAFFIC LOAD ON THE WALL AT K0) .....	Azioni applicate: D3 :da 7 a 18 Azione : TRAFFIC LOAD AT K0 D3 :da 31 a 51 Azione : TRAFFIC LOAD AT K0 D3 :da 55 a 72 Azione : TRAFFIC LOAD AT K0 D3 :da 91 a 111 Azione : TRAFFIC LOAD AT K0 D3 :da 115 a 120 Azione : TRAFFIC LOAD AT K0 D3 :da 166 a 186 Azione : TRAFFIC LOAD AT K0 D3 :da 340 a 342 Azione : TRAFFIC LOAD AT K0
5	Qk	CDC=Qk (TRAFFIC LOAD ON THE UPPER SLAB Vmax) .....	Azioni applicate: D3 :da 4 a 6 Azione : TRAFFIC q1 D3 :da 19 a 30 Azione : TRAFFIC q1 D3 :da 121 a 134 Azione : TRAFFIC Q1 D3 :da 135 a 165 Azione : TRAFFIC q1 D3 :da 187 a 192 Azione : TRAFFIC q1
6	Gk	G1k (WATER)	Azioni applicate: D3 :da 7 a 18 Azione : WATER D3 :da 31 a 51 Azione : WATER D3 :da 55 a 72 Azione : WATER D3 :da 88 a 111 Azione : WATER D3 :da 115 a 120 Azione : WATER D3 :da 166 a 186 Azione : WATER D3 :da 235 a 342 Azione : WATER
7	Qk	Qk (SISMIC X EARTH LOAD)	Azioni applicate: D3 :da 46 a 51 Azione : SEISMIC EARTH LOAD D3 :da 91 a 108 Azione : SEISMIC EARTH LOAD D3 :da 340 a 342 Azione : SEISMIC EARTH LOAD
8	Qk	Qk (SISMIC Y EARTH LOAD)	Azioni applicate:

CDC	Tipo	Sigla Id	Note
			D3 :da 13 a 18 Azione : SEISMIC EARTH LOAD
			D3 :da 31 a 45 Azione : SEISMIC EARTH LOAD
			D3 :da 70 a 72 Azione : SEISMIC EARTH LOAD
			D3 :da 109 a 111 Azione : SEISMIC EARTH LOAD
9	Esk	Es (EQUIVALENT STATIC ORIZONTAL SLU) CDC=Es (statico SLU) alfa=90.00 (ecc. 0)	partecipazione:1.00 per 1 Ggk (SELF WEIGHT)
			partecipazione:1.00 per 2 G2k (DEAD LOAD)
10	Esk	Es (STATIC EQUIVALENT ORIZONTAL SLU) alfa=0.0 (ecc. 0)	come precedente CDC sismico
11	Esk	Es (EQUIVALENT STATIC VERTICAL SLU)	come precedente CDC sismico
12	Qk	CDC=Qk (TRAFFIC LOAD ON THE UPPER SLAB Mmax 1) .....	Azioni applicate:
			D3 :da 4 a 6 Azione : TRAFFIC q1
			D3 :da 19 a 30 Azione : TRAFFIC q1
			D3 :da 121 a 134 Azione : TRAFFIC q1
			D3 :da 135 a 150 Azione : TRAFFIC Q1
			D3 :da 151 a 165 Azione : TRAFFIC q1
			D3 :da 187 a 192 Azione : TRAFFIC q1
13	Qk	CDC=Qk (TRAFFIC LOAD ON THE UPPER SLAB Mmax 2) .....	Azioni applicate:
			D3 :da 4 a 6 Azione : TRAFFIC q1
			D3 :da 19 a 30 Azione : TRAFFIC q1
			D3 :da 121 a 150 Azione : TRAFFIC q1
			D3 :da 151 a 165 Azione : TRAFFIC Q1
			D3 :da 187 a 192 Azione : TRAFFIC q1
14	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. 0)	come precedente CDC sismico
15	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. 0)	come precedente CDC sismico
16	Esk	CDC=Es (statico SLD) verticale	come precedente CDC sismico

## 10 DEFINIZIONE DELLE COMBINAZIONI

### 10.1 LEGENDA TABELLA COMBINAZIONI DI CARICO

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

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

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

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

**Combinazione fondamentale SLU**

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

**Combinazione caratteristica (rara) SLE**

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

**Combinazione frequente SLE**

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

**Combinazione quasi permanente SLE**

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

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

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

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

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

Dove:

NTC 2008 Tabella 2.5.1

Destinazione d'uso/azione	$\psi 0$	$\psi 1$	$\psi 2$
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

<i>Categoria D ambienti ad uso commerciale</i>	0,70	0,70	0,60
<i>Categoria E biblioteche, archivi, magazzini, ...</i>	1,00	0,90	0,80
<i>Categoria F Rimesse e parcheggi (autoveicoli ≤ 30kN)</i>	0,70	0,70	0,60
<i>Categoria G Rimesse e parcheggi (autoveicoli &gt; 30kN)</i>	0,70	0,50	0,30
<i>Categoria H Coperture</i>	0,00	0,00	0,00
<i>Vento</i>	0,60	0,20	0,00
<i>Neve a quota ≤ 1000 m</i>	0,50	0,20	0,00
<i>Neve a quota &gt; 1000 m</i>	0,70	0,50	0,20
<i>Variazioni Termiche</i>	0,60	0,50	0,00

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

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

NTC 2008 Tabella 2.6.1

		Coefficiente	<b>EQU</b>	<b>A1</b>	<b>A2</b>
		$\gamma_f$			
<i>Carichi permanenti</i>	<i>Favorevoli</i>	$\gamma_{G1}$	0,9	1,0	1,0
	<i>Sfavorevoli</i>		1,1	1,3	1,0
<i>Carichi permanenti non strutturali</i> <small>(Non compiutamente definiti)</small>	<i>Favorevoli</i>	$\gamma_{G2}$	0,0	0,0	0,0
	<i>Sfavorevoli</i>		1,5	1,5	1,3
<i>Carichi variabili</i>	<i>Favorevoli</i>	$\gamma_{Qi}$	0,0	0,0	0,0
	<i>Sfavorevoli</i>		1,5	1,5	1,3

<b>Cmb</b>	<b>Tipo</b>	<b>Sigla Id</b>	<b>effetto P-delta</b>
1	SLU	Comb. SLU A1 1	
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SLU	Comb. SLU A1 5	



Cmb	Tipo	Sigla Id	effetto P-delta
6	SLU	Comb. SLU A1 6	
7	SLU	Comb. SLU A1 7	
8	SLU	Comb. SLU A1 8	
9	SLU	Comb. SLU A1 9	
10	SLU	Comb. SLU A1 (SLV sism.) 21	
11	SLU	Comb. SLU A1 (SLV sism.) 22	
12	SLU	Comb. SLU A1 (SLV sism.) 23	
13	SLU	Comb. SLU A1 (SLV sism.) 24	
14	SLU	Comb. SLU A1 (SLV sism.) 25	
15	SLU	Comb. SLU A1 (SLV sism.) 26	
16	SLU	Comb. SLU A1 (SLV sism.) 27	
17	SLU	Comb. SLU A1 (SLV sism.) 28	
18	SLU	Comb. SLU A1 (SLV sism.) 29	
19	SLU	Comb. SLU A1 (SLV sism.) 30	
20	SLU	Comb. SLU A1 (SLV sism.) 31	
21	SLU	Comb. SLU A1 (SLV sism.) 32	
22	SLU	Comb. SLU A1 (SLV sism.) 33	
23	SLU	Comb. SLU A1 (SLV sism.) 34	
24	SLU	Comb. SLU A1 (SLV sism.) 35	
25	SLU	Comb. SLU A1 (SLV sism.) 36	
26	SLU	Comb. SLU A1 (SLV sism.) 37	
27	SLU	Comb. SLU A1 (SLV sism.) 38	
28	SLU	Comb. SLU A1 (SLV sism.) 39	
29	SLU	Comb. SLU A1 (SLV sism.) 40	
30	SLU	Comb. SLU A1 (SLV sism.) 41	
31	SLU	Comb. SLU A1 (SLV sism.) 42	
32	SLU	Comb. SLU A1 (SLV sism.) 43	
33	SLU	Comb. SLU A1 (SLV sism.) 44	
34	SLD(sis)	Comb. SLE (SLD Danno sism.) 45	
35	SLD(sis)	Comb. SLE (SLD Danno sism.) 46	
36	SLD(sis)	Comb. SLE (SLD Danno sism.) 47	
37	SLD(sis)	Comb. SLE (SLD Danno sism.) 48	
38	SLD(sis)	Comb. SLE (SLD Danno sism.) 49	
39	SLD(sis)	Comb. SLE (SLD Danno sism.) 50	
40	SLD(sis)	Comb. SLE (SLD Danno sism.) 51	
41	SLD(sis)	Comb. SLE (SLD Danno sism.) 52	
42	SLD(sis)	Comb. SLE (SLD Danno sism.) 53	
43	SLD(sis)	Comb. SLE (SLD Danno sism.) 54	
44	SLD(sis)	Comb. SLE (SLD Danno sism.) 55	
45	SLD(sis)	Comb. SLE (SLD Danno sism.) 56	
46	SLD(sis)	Comb. SLE (SLD Danno sism.) 57	
47	SLD(sis)	Comb. SLE (SLD Danno sism.) 58	
48	SLD(sis)	Comb. SLE (SLD Danno sism.) 59	
49	SLD(sis)	Comb. SLE (SLD Danno sism.) 60	
50	SLD(sis)	Comb. SLE (SLD Danno sism.) 61	
51	SLD(sis)	Comb. SLE (SLD Danno sism.) 62	
52	SLD(sis)	Comb. SLE (SLD Danno sism.) 63	
53	SLD(sis)	Comb. SLE (SLD Danno sism.) 64	
54	SLD(sis)	Comb. SLE (SLD Danno sism.) 65	
55	SLD(sis)	Comb. SLE (SLD Danno sism.) 66	
56	SLD(sis)	Comb. SLE (SLD Danno sism.) 67	
57	SLD(sis)	Comb. SLE (SLD Danno sism.) 68	
58	SLE(r)	Comb. SLE(rara) 69	
59	SLE(r)	Comb. SLE(rara) 70	
60	SLE(r)	Comb. SLE(rara) 71	
61	SLE(r)	Comb. SLE(rara) 72	
62	SLE(f)	Comb. SLE(freq.) 74	
63	SLE(f)	Comb. SLE(freq.) 76	
64	SLE(f)	Comb. SLE(freq.) 77	
65	SLE(p)	Comb. SLE(perm.) 78	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.35	1.50	1.35	1.35	1.35	1.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
2	1.00	1.00	1.00	1.00	1.35	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
3	1.35	1.50	1.35	1.35	0.0	1.35	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0
	0.0	0.0												

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
4	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0
5	1.35 0.0	1.50 0.0	1.35	1.35	0.0	1.35	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0
6	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0
7	1.00 0.0	1.00 0.0	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0
9	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0
10	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-0.30	-1.00	-1.00	-0.30	-0.30	0.0	0.0	0.0
11	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-0.30	-1.00	-1.00	-0.30	0.30	0.0	0.0	0.0
12	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.30	-1.00	-1.00	0.30	-0.30	0.0	0.0	0.0
13	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.30	-1.00	-1.00	0.30	0.30	0.0	0.0	0.0
14	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-0.30	1.00	1.00	-0.30	-0.30	0.0	0.0	0.0
15	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-0.30	1.00	1.00	-0.30	0.30	0.0	0.0	0.0
16	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.30	1.00	1.00	0.30	-0.30	0.0	0.0	0.0
17	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.30	1.00	1.00	0.30	0.30	0.0	0.0	0.0
18	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-1.00	-0.30	-0.30	-1.00	-0.30	0.0	0.0	0.0
19	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-1.00	-0.30	-0.30	-1.00	0.30	0.0	0.0	0.0
20	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	1.00	-0.30	-0.30	1.00	-0.30	0.0	0.0	0.0
21	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	1.00	-0.30	-0.30	1.00	0.30	0.0	0.0	0.0
22	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-1.00	0.30	0.30	-1.00	-0.30	0.0	0.0	0.0
23	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-1.00	0.30	0.30	-1.00	0.30	0.0	0.0	0.0
24	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	1.00	0.30	0.30	1.00	-0.30	0.0	0.0	0.0
25	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	1.00	0.30	0.30	1.00	0.30	0.0	0.0	0.0
26	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-0.30	-0.30	-0.30	-0.30	-1.00	0.0	0.0	0.0
27	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-0.30	-0.30	-0.30	-0.30	1.00	0.0	0.0	0.0
28	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-0.30	0.30	-0.30	0.30	-1.00	0.0	0.0	0.0
29	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	-0.30	0.30	-0.30	0.30	1.00	0.0	0.0	0.0
30	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.30	-0.30	0.30	-0.30	-1.00	0.0	0.0	0.0
31	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.30	-0.30	0.30	-0.30	1.00	0.0	0.0	0.0
32	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.30	0.30	0.30	0.30	-1.00	0.0	0.0	0.0
33	1.00 0.0	1.00 0.0	1.00	1.00	0.0	1.00	0.30	0.30	0.30	0.30	1.00	0.0	0.0	0.0
34	1.00 -0.30	1.00 -0.30	1.00	1.00	0.0	1.00	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-1.00
35	1.00 -0.30	1.00 0.30	1.00	1.00	0.0	1.00	-0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-1.00
36	1.00 0.30	1.00 -0.30	1.00	1.00	0.0	1.00	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-1.00
37	1.00 0.30	1.00 0.30	1.00	1.00	0.0	1.00	0.30	-1.00	0.0	0.0	0.0	0.0	0.0	-1.00
38	1.00 -0.30	1.00 -0.30	1.00	1.00	0.0	1.00	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00
39	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
	-0.30	0.30												
40	1.00	1.00	1.00	1.00	0.0	1.00	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00
	0.30	-0.30												
41	1.00	1.00	1.00	1.00	0.0	1.00	0.30	1.00	0.0	0.0	0.0	0.0	0.0	1.00
	0.30	0.30												
42	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	-1.00	-0.30												
43	1.00	1.00	1.00	1.00	0.0	1.00	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	-1.00	0.30												
44	1.00	1.00	1.00	1.00	0.0	1.00	1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00	-0.30												
45	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	1.00	0.30												
46	1.00	1.00	1.00	1.00	0.0	1.00	-1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	-1.00	-0.30												
47	1.00	1.00	1.00	1.00	0.0	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	-1.00	0.30												
48	1.00	1.00	1.00	1.00	0.0	1.00	1.00	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00	-0.30												
49	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	1.00	0.30												
50	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	-0.30	-1.00												
51	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	-0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	-0.30	1.00												
52	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	0.30	-1.00												
53	1.00	1.00	1.00	1.00	0.0	1.00	-0.30	0.30	0.0	0.0	0.0	0.0	0.0	-0.30
	0.30	1.00												
54	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
	-0.30	-1.00												
55	1.00	1.00	1.00	1.00	0.0	1.00	0.30	-0.30	0.0	0.0	0.0	0.0	0.0	0.30
	-0.30	1.00												
56	1.00	1.00	1.00	1.00	0.0	1.00	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	0.30	-1.00												
57	1.00	1.00	1.00	1.00	0.0	1.00	0.30	0.30	0.0	0.0	0.0	0.0	0.0	0.30
	0.30	1.00												
58	1.00	1.00	1.00	1.00	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
59	1.00	1.00	1.00	1.00	0.75	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
60	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0
	0.0	0.0												
61	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0
	0.0	0.0												
62	1.00	1.00	1.00	1.00	0.75	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												
63	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0
	0.0	0.0												
64	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0
	0.0	0.0												
65	1.00	1.00	1.00	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0												

## 11 AZIONE SISMICA

### 11.1 VALUTAZIONE DELL' AZIONE SISMICA

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

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

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

ag: accelerazione orizzontale massima del terreno;

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

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

11.1.1 Parametri della struttura					
Classe d'uso	Vita $V_n$ [anni]	Coeff. Uso	Periodo $V_r$ [anni]	Tipo di suolo	Categoria topografica
III	50.0	1.5	75.0	B	T1

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

S è il coefficiente che tiene conto della categoria di sottosuolo e delle condizioni topografiche mediante la relazione seguente  $S = S_s * S_t$  (3.2.5)

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

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

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

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

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

<b>Id nodo</b>	<b>Longitudine</b>	<b>Latitudine</b>	<b>Distanza</b>
			Km
Loc.	7.811	44.366	
16901	7.756	44.346	4.892
16902	7.826	44.350	2.101
16680	7.821	44.400	3.875
16679	7.751	44.396	5.831

<b>SL</b>	<b>Pver</b>	<b>Tr</b>	<b>ag</b>	<b>Fo</b>	<b>T*c</b>
		Anni	g		sec
SLO	81.0	45.0	0.033	2.560	0.200
SLD	63.0	75.0	0.040	2.590	0.220
SLV	10.0	712.0	0.088	2.650	0.310
SLC	5.0	1462.0	0.107	2.720	0.320

<b>SL</b>	<b>ag</b>	<b>S</b>	<b>Fo</b>	<b>Fv</b>	<b>Tb</b>	<b>Tc</b>	<b>Td</b>
	g				sec	sec	sec
SLO	0.033	1.200	2.560	0.626	0.101	0.304	1.731
SLD	0.040	1.200	2.590	0.702	0.109	0.328	1.761
SLV	0.088	1.200	2.650	1.061	0.144	0.431	1.952
SLC	0.107	1.200	2.720	1.204	0.147	0.442	2.030

## 12 RISULTATI ANALISI SISMICHE

### 12.1 LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

- 9. Esk**                    caso di carico sismico con analisi statica equivalente
- 10. Edk**                   caso di carico sismico con analisi dinamica

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

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

<b>Angolo di ingresso</b>	Angolo di ingresso dell'azione sismica orizzontale
<b>Fattore di importanza</b>	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
<b>Zona sismica</b>	Zona sismica
<b>Accelerazione ag</b>	Accelerazione orizzontale massima sul suolo
<b>Categoria suolo</b>	Categoria di profilo stratigrafico del suolo di fondazione
<b>Fattore di struttura q</b>	Fattore dipendente dalla tipologia strutturale
<b>Fattore di sito S</b>	Fattore dipendente dalla stratigrafia e dal profilo topografico
<b>Classe di duttilità CD</b>	Classe di duttilità della struttura – “A” duttilità alta, “B” duttilità bassa

<b>Fattore riduz. SLD</b>	Fattore di riduzione dello spettro elastico per lo stato limite di danno
<b>Periodo proprio T1</b>	Periodo proprio di vibrazione della struttura
<b>Coefficiente Lambda</b>	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
<b>Ordinata spettro Sd(T1)</b>	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
<b>Ordinata spettro Se(T1)</b>	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
<b>Ordinata spettro S (Tb-Tc)</b>	Valore dell' ordinata dello spettro in uso nel tratto costante
<b>numero di modi considerati</b>	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

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

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

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

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

Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo l' allegato 10.A dell'Ordinanza 3274 e smi. In particolare la tabella, per ogni combinazione SLU (SLC per il DM 14-01-2008) sismica riporta il codice di verifica e i valori utilizzati per la verifica: spostamento  $dE$ , area ridotta e dimensione  $A_2$ , azione verticale, deformazioni di taglio dell' elastomero e tensioni nell' acciaio.

<b>Nodo</b>	Nodo di appoggio dell' isolatore
<b>Cmb</b>	Combinazione oggetto della verifica
<b>Verif.</b>	Codice di verifica ok – verifica positiva , NV – verifica negativa, ND – verifica non completata
<b>dE</b>	Spostamento relativo tra le due facce (amplificato del 20% per Ordinanza 3274 e smi) combinato con la regola del 30%
<b>Ang fi</b>	Angolo utilizzato per il calcolo dell' area ridotta $A_r$ (per dispositivi circolari)
<b>V</b>	Azione verticale agente
<b>Ar</b>	Area ridotta efficace
<b>Dim A2</b>	Dimensione utile per il calcolo della deformazione per rotazione
<b>Sig s</b>	Tensione nell' inserto in acciaio
<b>Gam c(a,s,t)</b>	Deformazioni di taglio dell' elastomero
<b>Vcr</b>	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

- 1)  $V > 0$
- 2)  $\text{Sig } s < f_{yk}$
- 3)  $\text{Gam } t < 5$
- 4)  $\text{Gam } s < \text{Gam} * (\text{caratteristica dell' elastomero})$
- 5)  $\text{Gam } s < 2$



6)  $V < 0.5 V_{cr}$

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

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

CDC	Tipo	Sigla Id	Note
9	Esk	Es (EQUIVALENT STATIC HORIZONTAL SLU) CDC=Es (statico SLU) alfa=90.00 (ecc. 0)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.280 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: nulla
			periodo proprio T1: 0.170 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.280

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	kN	kN	m	m	m	m	m	m			
-0.79	376.89	376.89	1126.53	3.31	4.35	0.0	0.0	2.99	0.11	0.924	0.099	1.162
-1.71	50.92	427.81	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
-2.62	21.63	449.44	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
Risulta	449.44		1606.06									

CDC	Tipo	Sigla Id	Note
10	Esk	Es (STATIC EQUIVALENT HORIZONTAL SLU) alfa=0.0 (ecc. 0)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.280 g

CDC	Tipo	Sigla Id	Note
			angolo di ingresso:0.0
			eccentricità aggiuntiva: nulla
			periodo proprio T1: 0.170 sec.
			fattore q: 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: B
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.280

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	kN	kN	m	m	m	m	m	m			
-0.79	376.89	376.89	1126.53	3.31	4.35	0.0	0.0	2.99	0.11	0.924	0.099	1.162
-1.71	50.92	427.81	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
-2.62	21.63	449.44	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
Risulta	449.44		1606.06									

CDC	Tipo	Sigla Id	Note
11	Esk	Es (EQUIVALENT STATIC VERTICAL SLU)	
			categoria suolo: B
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.093 g
			fattore q: 1.000
			classe di duttilità CD: B
			coefficiente Lambda: 1.000
			ordinata spettro Svd(T1): 0.082

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	kN	kN	m	m	m	m	m	m			
-0.79	92.83	92.83	1126.53	3.31	4.35	0.0	0.0	2.99	0.11	0.924	0.099	1.162
-1.71	19.76	112.59	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
-2.62	19.76	132.34	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
Risulta	132.34		1606.06									

CDC	Tipo	Sigla Id	Note
14	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. 0)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.125 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: nulla
			periodo proprio T1: 0.170 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.125

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	kN	kN	m	m	m	m	m	m			
-0.79	168.69	168.69	1126.53	3.31	4.35	0.0	0.0	2.99	0.11	0.924	0.099	1.162
-1.71	22.79	191.48	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
-2.62	9.68	201.16	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
Risulta	201.16		1606.06									

CDC	Tipo	Sigla Id	Note
15	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. 0)	
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.125 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: nulla
			periodo proprio T1: 0.170 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.125

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	kN	kN	m	m	m	m	m	m			
-0.79	168.69	168.69	1126.53	3.31	4.35	0.0	0.0	2.99	0.11	0.924	0.099	1.162
-1.71	22.79	191.48	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
-2.62	9.68	201.16	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
Risulta	201.16		1606.06									

CDC	Tipo	Sigla Id	Note
16	Esk	CDC=Es (statico SLD) verticale	
			categoria suolo: B
			fattore di sito S = 1.000
			ordinata spettro (tratto Tb-Tc) = 0.028 g
			coefficiente Lambda: 1.000
			ordinata spettro Sve(T1): 0.025

Quota	Forza Sismica	Tot. parziale	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	kN	kN	m	m	m	m	m	m			
-0.79	28.12	28.12	1126.53	3.31	4.35	0.0	0.0	2.99	0.11	0.924	0.099	1.162
-1.71	5.98	34.10	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
-2.62	5.98	40.09	239.77	3.84	4.16	0.0	0.0	2.99	0.11	0.924	0.267	1.111
Risulta	40.09		1606.06									

## 13 RISULTATI NODALI

### 13.1 LEGENDA RISULTATI NODALI

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

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

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

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

Nodo	Cmb	Traslazione X cm	Traslazione Y cm	Traslazione Z cm	Rotazione X	Rotazione Y	Rotazione Z
1	1	0.03	0.10	-0.11	3.68e-05	-2.59e-04	-1.11e-04
1	14	7.43e-03	0.10	-0.11	-2.27e-04	-1.13e-04	-7.45e-05
1	16	0.03	0.10	-0.09	-2.53e-04	3.48e-05	-8.06e-05
1	20	0.06	0.06	-8.44e-03	-1.07e-04	2.31e-04	-9.12e-05
1	38	0.01	0.09	-0.08	-1.68e-04	-7.01e-05	-7.50e-05
1	40	0.03	0.09	-0.07	-1.82e-04	1.12e-05	-8.11e-05
1	44	0.04	0.07	-0.03	-1.07e-04	1.18e-04	-9.11e-05
1	58	0.02	0.07	-0.08	2.74e-05	-1.87e-04	-8.23e-05
1	62	0.02	0.07	-0.07	-5.49e-06	-1.45e-04	-8.18e-05
1	65	0.02	0.07	-0.05	-1.04e-04	-1.95e-05	-8.03e-05
2	1	-0.05	0.10	-0.13	-6.58e-05	-4.38e-04	-1.33e-04
2	5	-0.04	0.10	-0.01	-2.48e-05	7.07e-05	-1.29e-04
2	17	-0.02	0.10	0.06	-1.20e-04	1.84e-04	-8.81e-05
2	19	-0.06	0.06	-0.05	-2.13e-05	-2.82e-04	-8.20e-05
2	25	-3.69e-03	0.08	0.08	-9.77e-05	2.94e-04	-1.03e-04
2	41	-0.03	0.09	0.04	-9.11e-05	9.98e-05	-9.10e-05
2	42	-0.05	0.06	-0.03	-4.24e-05	-1.52e-04	-8.21e-05
2	48	-0.02	0.08	0.04	-8.02e-05	1.59e-04	-1.03e-04
2	58	-0.03	0.07	-0.10	-4.65e-05	-3.20e-04	-9.81e-05
2	61	-0.03	0.07	-3.24e-03	-2.73e-05	4.41e-05	-9.50e-05
2	62	-0.03	0.07	-0.07	-5.01e-05	-2.39e-04	-9.68e-05
2	64	-0.03	0.07	-3.24e-03	-2.73e-05	4.41e-05	-9.50e-05
2	65	-0.03	0.07	9.08e-03	-6.09e-05	3.81e-06	-9.27e-05
3	1	0.02	0.06	-0.03	4.83e-05	-1.02e-04	-1.15e-04
3	3	0.02	0.06	-0.04	1.99e-05	3.05e-05	-1.11e-04
3	5	0.02	0.06	-0.05	-1.05e-06	1.72e-04	-1.07e-04
3	16	0.03	0.08	-0.09	-2.18e-04	1.22e-04	-8.14e-05
3	20	0.05	0.03	-0.03	-7.01e-05	1.79e-04	-9.03e-05
3	40	0.02	0.06	-0.06	-1.54e-04	8.14e-05	-8.24e-05
3	44	0.04	0.04	-0.03	-7.61e-05	1.10e-04	-9.15e-05
3	58	0.02	0.04	-0.02	3.59e-05	-7.62e-05	-8.48e-05

3	60	0.02	0.04	-0.03	-9.53e-06	2.65e-05	-8.22e-05
3	61	0.02	0.04	-0.03	-2.12e-05	1.05e-04	-8.03e-05
3	62	0.02	0.04	-0.02	6.26e-06	-4.73e-05	-8.42e-05
3	63	0.02	0.04	-0.03	-9.53e-06	2.65e-05	-8.22e-05
3	64	0.02	0.04	-0.03	-2.12e-05	1.05e-04	-8.03e-05
3	65	0.02	0.04	-0.04	-8.28e-05	3.93e-05	-8.24e-05
4	1	-0.08	0.08	-0.13	6.23e-05	-1.86e-04	-1.25e-04
4	5	0.01	0.10	-0.02	-2.15e-05	5.38e-05	-1.34e-04
4	16	0.02	0.17	2.50e-03	-2.42e-04	1.07e-05	-1.11e-04
4	18	-0.13	0.06	-0.06	-1.74e-05	-2.58e-04	-7.16e-05
4	19	-0.13	0.06	-0.06	-1.72e-05	-2.62e-04	-7.14e-05
4	40	1.85e-03	0.14	-4.55e-03	-1.73e-04	-3.03e-05	-1.05e-04
4	42	-0.08	0.08	-0.04	-5.47e-05	-1.60e-04	-7.90e-05
4	58	-0.06	0.06	-0.09	4.64e-05	-1.41e-04	-9.27e-05
4	61	3.17e-03	0.08	-0.01	-3.60e-05	1.03e-05	-9.87e-05
4	62	-0.05	0.07	-0.07	1.06e-05	-1.23e-04	-9.40e-05
4	64	3.17e-03	0.08	-0.01	-3.60e-05	1.03e-05	-9.87e-05
4	65	-0.02	0.10	-0.01	-9.69e-05	-6.91e-05	-9.81e-05
5	1	-0.04	0.06	-0.06	8.07e-05	-1.29e-04	-1.15e-04
5	3	-0.04	0.06	-0.07	9.62e-05	-1.71e-05	-1.17e-04
5	17	-0.02	0.08	0.01	-1.43e-04	6.54e-05	-8.01e-05
5	22	-0.06	0.05	-1.83e-03	-6.47e-05	-1.11e-04	-8.54e-05
5	41	-0.02	0.06	8.61e-03	-1.01e-04	3.54e-05	-8.31e-05
5	46	-0.04	0.05	8.44e-04	-6.01e-05	-5.48e-05	-8.00e-05
5	58	-0.03	0.04	-0.04	5.93e-05	-5.51e-05	-8.54e-05
5	60	-0.03	0.04	-0.03	3.93e-05	-8.48e-06	-8.61e-05
5	62	-0.03	0.04	-0.03	3.07e-05	-7.05e-05	-8.54e-05
5	63	-0.03	0.04	-0.03	3.93e-05	-8.48e-06	-8.61e-05
5	65	-0.03	0.04	3.05e-03	-5.49e-05	3.07e-06	-8.52e-05
6	1	-0.05	0.06	-0.06	-6.63e-05	-1.44e-04	-1.05e-04
6	4	-0.03	0.04	-0.07	-8.77e-05	-3.42e-05	-7.93e-05
6	5	-0.05	0.06	-0.05	-9.92e-05	6.41e-05	-1.11e-04
6	17	-0.03	0.08	0.03	-1.42e-04	5.17e-05	-8.12e-05
6	18	-0.06	0.04	-3.75e-03	-4.06e-05	-1.42e-04	-6.01e-05
6	41	-0.03	0.06	0.02	-1.09e-04	2.23e-05	-8.12e-05
6	42	-0.05	0.04	3.06e-03	-5.79e-05	-7.71e-05	-6.50e-05
6	58	-0.03	0.04	-0.04	-4.58e-05	-1.06e-04	-7.79e-05
6	61	-0.03	0.04	-0.02	-7.15e-05	3.38e-05	-8.17e-05
6	62	-0.03	0.04	-0.03	-5.32e-05	-8.20e-05	-7.84e-05
6	63	-0.03	0.04	-0.03	-8.23e-05	-2.31e-05	-7.96e-05
6	64	-0.03	0.04	-0.02	-7.15e-05	3.38e-05	-8.17e-05
6	65	-0.03	0.04	9.89e-03	-7.56e-05	-9.27e-06	-8.00e-05
7	1	0.02	0.03	1.12e-03	5.10e-05	-2.72e-04	-1.13e-04
7	5	0.02	0.03	-0.08	1.53e-05	9.25e-05	-1.08e-04
7	14	2.06e-03	0.06	-0.09	-1.90e-04	-5.49e-05	-7.72e-05
7	16	0.02	0.06	-0.11	-2.00e-04	8.01e-05	-8.36e-05
7	20	0.05	0.01	-0.06	-5.25e-05	1.60e-04	-9.43e-05
7	38	6.70e-03	0.04	-0.07	-1.35e-04	-5.20e-05	-7.75e-05
7	40	0.02	0.04	-0.08	-1.40e-04	1.80e-05	-8.37e-05
7	44	0.04	0.02	-0.05	-6.22e-05	5.93e-05	-9.40e-05
7	59	0.01	0.02	-8.00e-03	9.86e-06	-1.63e-04	-8.34e-05
7	61	0.01	0.03	-0.06	-1.00e-05	3.93e-05	-8.09e-05
7	62	0.01	0.02	-8.00e-03	9.86e-06	-1.63e-04	-8.34e-05
7	64	0.01	0.03	-0.06	-1.00e-05	3.93e-05	-8.09e-05
7	65	0.01	0.03	-0.04	-7.38e-05	-4.86e-05	-8.29e-05
8	1	-0.03	0.03	-0.02	-8.87e-06	-1.50e-04	-1.10e-04
8	5	-0.03	0.03	-0.09	-9.47e-05	2.16e-04	-1.15e-04
8	15	-0.03	0.06	-9.76e-03	-2.00e-04	-9.88e-06	-7.52e-05
8	22	-0.05	0.04	0.01	-1.17e-04	-1.88e-04	-7.19e-05
8	24	0.01	0.03	-0.05	-1.52e-04	2.63e-04	-8.91e-05
8	39	-0.03	0.04	-0.01	-1.54e-04	7.37e-06	-7.57e-05
8	46	-0.04	0.03	4.63e-04	-1.10e-04	-8.60e-05	-7.13e-05
8	48	-2.46e-03	0.03	-0.03	-1.28e-04	1.47e-04	-9.01e-05
8	58	-0.02	0.02	-0.02	-5.10e-06	-1.11e-04	-8.17e-05
8	61	-0.02	0.03	-0.05	-7.70e-05	1.26e-04	-8.42e-05
8	62	-0.02	0.03	-0.01	-2.94e-05	-7.69e-05	-8.16e-05
8	64	-0.02	0.03	-0.05	-7.70e-05	1.26e-04	-8.42e-05
8	65	-0.02	0.03	-0.01	-1.02e-04	2.46e-05	-8.16e-05
9	1	-0.03	0.02	0.01	7.52e-05	-2.09e-04	-1.00e-04
9	5	-0.03	0.02	-0.12	2.52e-05	1.49e-04	-1.03e-04
9	14	-0.03	0.05	-7.06e-03	-1.48e-04	-4.96e-05	-5.89e-05
9	22	-0.05	0.03	0.06	-6.85e-05	-2.60e-04	-5.61e-05
9	24	0.01	0.02	-0.09	-9.42e-05	2.62e-04	-8.81e-05
9	38	-0.03	0.03	-8.94e-03	-1.02e-04	-3.14e-05	-6.43e-05
9	46	-0.04	0.02	0.02	-6.07e-05	-1.40e-04	-6.01e-05

9	48	-3.43e-03	0.01	-0.05	-7.34e-05	1.29e-04	-8.69e-05
9	58	-0.02	0.01	0.01	5.59e-05	-1.55e-04	-7.41e-05
9	59	-0.02	0.01	5.36e-03	2.92e-05	-1.19e-04	-7.45e-05
9	61	-0.02	0.01	-0.07	1.39e-06	7.98e-05	-7.60e-05
9	62	-0.02	0.01	5.36e-03	2.92e-05	-1.19e-04	-7.45e-05
9	64	-0.02	0.01	-0.07	1.39e-06	7.98e-05	-7.60e-05
9	65	-0.02	0.01	-0.01	-5.11e-05	-1.20e-05	-7.57e-05
10	3	-0.08	0.02	-0.07	5.67e-05	-8.45e-05	-1.10e-04
10	5	-0.08	0.02	-0.14	4.35e-05	1.05e-04	-1.14e-04
10	6	-0.06	0.01	-0.14	6.45e-05	1.22e-04	-8.48e-05
10	14	-0.07	0.05	0.07	-1.72e-04	-1.17e-04	-7.16e-05
10	18	-0.09	5.18e-03	0.08	-4.04e-05	-2.72e-04	-8.02e-05
10	23	-0.09	0.03	0.10	-1.06e-04	-2.76e-04	-7.46e-05
10	38	-0.06	0.03	0.04	-1.21e-04	-8.30e-05	-7.48e-05
10	42	-0.07	0.01	0.05	-5.05e-05	-1.62e-04	-7.63e-05
10	46	-0.07	0.02	0.06	-8.48e-05	-1.63e-04	-7.31e-05
10	60	-0.06	0.01	-0.04	1.57e-05	-5.80e-05	-8.17e-05
10	61	-0.06	0.01	-0.07	8.41e-06	4.71e-05	-8.37e-05
10	63	-0.06	0.01	-0.04	1.57e-05	-5.80e-05	-8.17e-05
10	64	-0.06	0.01	-0.07	8.41e-06	4.71e-05	-8.37e-05
10	65	-0.06	0.01	0.02	-6.17e-05	-4.60e-05	-8.24e-05
11	1	-0.08	0.06	-0.12	2.21e-04	-2.34e-04	-1.07e-04
11	5	-0.08	0.06	-0.10	1.55e-04	9.18e-05	-1.13e-04
11	10	-0.07	0.01	-0.04	1.05e-04	-1.06e-04	-8.31e-05
11	16	-0.05	0.08	0.04	-2.24e-04	3.13e-05	-8.07e-05
11	19	-0.09	0.04	-0.02	2.04e-05	-2.50e-04	-7.29e-05
11	34	-0.07	0.03	-0.02	3.21e-05	-7.32e-05	-8.20e-05
11	40	-0.05	0.07	0.02	-1.56e-04	-2.24e-06	-8.17e-05
11	42	-0.07	0.04	-0.01	-1.45e-05	-1.46e-04	-7.26e-05
11	58	-0.06	0.05	-0.09	1.59e-04	-1.72e-04	-7.93e-05
11	59	-0.06	0.05	-0.06	1.04e-04	-1.39e-04	-8.00e-05
11	61	-0.06	0.05	-0.05	6.71e-05	4.23e-05	-8.35e-05
11	62	-0.06	0.05	-0.06	1.04e-04	-1.39e-04	-8.00e-05
11	64	-0.06	0.05	-0.05	6.71e-05	4.23e-05	-8.35e-05
11	65	-0.06	0.05	-5.01e-04	-6.28e-05	-3.79e-05	-8.19e-05
12	1	-0.08	0.10	-0.20	2.96e-04	-2.54e-04	-1.02e-04
12	3	-0.08	0.10	-0.13	2.02e-04	-9.34e-05	-1.11e-04
12	17	-0.05	0.10	0.05	-2.41e-04	2.44e-05	-7.93e-05
12	18	-0.09	0.06	-0.11	1.30e-04	-2.70e-04	-7.48e-05
12	19	-0.09	0.06	-0.11	1.25e-04	-2.71e-04	-7.50e-05
12	41	-0.05	0.09	0.02	-1.59e-04	-1.08e-05	-8.14e-05
12	42	-0.07	0.07	-0.06	4.30e-05	-1.67e-04	-7.37e-05
12	58	-0.06	0.07	-0.14	2.15e-04	-1.87e-04	-7.54e-05
12	60	-0.06	0.07	-0.08	9.54e-05	-6.32e-05	-8.24e-05
12	62	-0.06	0.07	-0.11	1.48e-04	-1.52e-04	-7.72e-05
12	63	-0.06	0.07	-0.08	9.54e-05	-6.32e-05	-8.24e-05
12	65	-0.06	0.07	-0.01	-5.37e-05	-4.84e-05	-8.23e-05
13	1	-0.06	0.06	-0.07	0.0	-2.14e-04	-1.11e-04
13	3	-0.05	0.06	-0.07	0.0	-9.32e-05	-1.18e-04
13	5	-0.04	0.06	-0.05	0.0	5.81e-05	-1.25e-04
13	16	-0.02	0.10	0.03	0.0	6.57e-05	-9.28e-05
13	17	-0.02	0.10	0.03	0.0	6.38e-05	-9.26e-05
13	19	-0.09	0.04	-2.20e-03	0.0	-3.32e-04	-6.62e-05
13	40	-0.03	0.08	0.02	0.0	1.44e-05	-9.07e-05
13	41	-0.03	0.08	0.02	0.0	1.38e-05	-9.07e-05
13	42	-0.06	0.04	1.62e-03	0.0	-1.89e-04	-7.17e-05
13	58	-0.05	0.04	-0.05	0.0	-1.58e-04	-8.21e-05
13	61	-0.03	0.05	-0.03	0.0	2.28e-05	-9.11e-05
13	62	-0.04	0.05	-0.03	0.0	-1.28e-04	-8.34e-05
13	63	-0.04	0.05	-0.04	0.0	-6.12e-05	-8.73e-05
13	64	-0.03	0.05	-0.03	0.0	2.28e-05	-9.11e-05
13	65	-0.04	0.05	9.12e-03	0.0	-3.99e-05	-8.74e-05
14	1	-0.05	0.06	-0.06	0.0	-2.15e-04	-1.19e-04
14	3	-0.04	0.06	-0.07	0.0	-9.41e-05	-1.22e-04
14	5	-0.03	0.06	-0.06	0.0	5.56e-05	-1.23e-04
14	16	-0.01	0.10	6.48e-03	0.0	7.23e-05	-9.16e-05
14	19	-0.08	0.04	-4.45e-03	0.0	-3.40e-04	-8.10e-05
14	33	-0.01	0.07	0.01	0.0	5.28e-05	-9.20e-05
14	40	-0.02	0.08	4.25e-03	0.0	1.84e-05	-9.13e-05
14	41	-0.02	0.08	5.34e-03	0.0	1.79e-05	-9.12e-05
14	42	-0.06	0.04	-3.57e-03	0.0	-1.93e-04	-8.05e-05
14	58	-0.04	0.04	-0.04	0.0	-1.58e-04	-8.80e-05
14	61	-0.02	0.05	-0.03	0.0	2.18e-05	-9.09e-05
14	62	-0.04	0.05	-0.03	0.0	-1.29e-04	-8.84e-05
14	63	-0.03	0.05	-0.04	0.0	-6.14e-05	-9.03e-05

14	64	-0.02	0.05	-0.03	0.0	2.18e-05	-9.09e-05
14	65	-0.03	0.05	7.23e-04	0.0	-3.88e-05	-8.98e-05
15	1	-0.09	0.06	-0.07	0.0	-2.60e-04	-1.14e-04
15	3	-0.06	0.06	-0.08	0.0	-9.27e-05	-1.28e-04
15	5	-0.03	0.07	-0.06	0.0	1.06e-04	-1.38e-04
15	16	-0.01	0.12	0.03	0.0	7.41e-05	-1.05e-04
15	17	-0.01	0.12	0.03	0.0	7.23e-05	-1.05e-04
15	19	-0.12	0.04	-4.52e-03	0.0	-3.46e-04	-7.30e-05
15	40	-0.03	0.09	0.02	0.0	2.00e-05	-1.01e-04
15	41	-0.03	0.09	0.02	0.0	1.94e-05	-1.01e-04
15	42	-0.08	0.05	-6.49e-04	0.0	-1.96e-04	-7.85e-05
15	58	-0.06	0.04	-0.05	0.0	-1.92e-04	-8.45e-05
15	61	-0.03	0.05	-0.03	0.0	5.00e-05	-1.00e-04
15	62	-0.06	0.05	-0.04	0.0	-1.53e-04	-8.70e-05
15	63	-0.04	0.05	-0.04	0.0	-6.02e-05	-9.46e-05
15	64	-0.03	0.05	-0.03	0.0	5.00e-05	-1.00e-04
15	65	-0.04	0.06	7.07e-03	0.0	-3.80e-05	-9.47e-05
16	1	-0.07	0.06	-0.06	0.0	-2.62e-04	-1.18e-04
16	3	-0.05	0.06	-0.07	0.0	-8.65e-05	-1.22e-04
16	5	-0.02	0.07	-0.06	0.0	1.20e-04	-1.26e-04
16	16	-4.14e-03	0.12	5.49e-03	0.0	8.51e-05	-1.03e-04
16	19	-0.11	0.04	-5.46e-03	0.0	-3.53e-04	-6.20e-05
16	26	-0.06	0.04	-9.73e-03	0.0	-1.31e-04	-8.24e-05
16	34	-0.05	0.03	-4.88e-03	0.0	-9.48e-05	-8.48e-05
16	40	-0.02	0.09	3.25e-03	0.0	2.77e-05	-9.82e-05
16	42	-0.07	0.05	-4.59e-03	0.0	-1.98e-04	-7.13e-05
16	58	-0.05	0.04	-0.05	0.0	-1.93e-04	-8.71e-05
16	61	-0.02	0.05	-0.03	0.0	5.90e-05	-9.25e-05
16	62	-0.05	0.05	-0.03	0.0	-1.53e-04	-8.82e-05
16	63	-0.04	0.05	-0.04	0.0	-5.58e-05	-9.07e-05
16	64	-0.02	0.05	-0.03	0.0	5.90e-05	-9.25e-05
16	65	-0.03	0.06	-2.60e-04	0.0	-3.39e-05	-9.15e-05
17	1	-0.11	0.05	-0.08	2.64e-04	-2.86e-04	-1.21e-04
17	3	-0.07	0.05	-0.09	2.69e-04	-1.47e-05	-1.34e-04
17	5	-0.02	0.06	-0.07	2.20e-04	2.59e-04	-1.41e-04
17	17	-6.91e-03	0.14	0.03	-1.02e-04	9.25e-05	-1.14e-04
17	19	-0.14	0.04	-7.25e-03	6.80e-05	-1.92e-04	-7.89e-05
17	41	-0.02	0.11	0.02	-4.96e-05	5.14e-05	-1.08e-04
17	42	-0.09	0.05	-3.70e-03	4.31e-05	-9.69e-05	-8.39e-05
17	58	-0.08	0.03	-0.06	1.92e-04	-2.11e-04	-8.92e-05
17	61	-0.02	0.05	-0.03	1.22e-04	1.46e-04	-1.03e-04
17	62	-0.07	0.04	-0.04	1.47e-04	-1.57e-04	-9.20e-05
17	63	-0.05	0.05	-0.05	1.50e-04	-5.86e-06	-9.94e-05
17	64	-0.02	0.05	-0.03	1.22e-04	1.46e-04	-1.03e-04
17	65	-0.04	0.07	3.81e-03	1.14e-05	5.93e-06	-1.00e-04
18	1	-0.10	0.05	-0.07	6.38e-05	-2.68e-04	-1.22e-04
18	3	-0.05	0.05	-0.08	7.32e-05	-1.64e-05	-1.23e-04
18	5	-5.50e-03	0.06	-0.06	3.28e-05	2.34e-04	-1.23e-04
18	17	3.78e-03	0.14	0.01	-1.58e-04	9.29e-05	-1.12e-04
18	19	-0.14	0.04	-5.90e-03	-2.71e-05	-1.77e-04	-5.53e-05
18	41	-0.01	0.11	5.70e-03	-1.15e-04	5.29e-05	-1.04e-04
18	42	-0.09	0.05	-4.66e-03	-4.65e-05	-8.82e-05	-6.90e-05
18	58	-0.07	0.03	-0.05	4.73e-05	-1.97e-04	-9.02e-05
18	61	-0.01	0.05	-0.03	1.50e-06	1.33e-04	-9.18e-05
18	62	-0.06	0.04	-0.03	1.87e-05	-1.46e-04	-9.12e-05
18	63	-0.04	0.05	-0.04	2.40e-05	-5.90e-06	-9.21e-05
18	64	-0.01	0.05	-0.03	1.50e-06	1.33e-04	-9.18e-05
18	65	-0.03	0.07	1.44e-04	-6.70e-05	8.55e-06	-9.41e-05
19	1	-0.12	0.05	-0.10	3.22e-04	-2.99e-04	0.0
19	3	-0.08	0.05	-0.11	3.22e-04	-1.74e-05	0.0
19	5	-0.03	0.06	-0.09	2.84e-04	2.69e-04	0.0
19	10	-0.08	-2.58e-03	-0.03	1.33e-04	-8.04e-05	0.0
19	17	-0.02	0.14	0.03	3.41e-06	8.39e-05	0.0
19	19	-0.15	0.04	-0.01	1.10e-04	-1.92e-04	0.0
19	34	-0.07	0.03	-0.01	1.05e-04	-4.14e-05	0.0
19	41	-0.03	0.11	0.01	3.21e-05	4.49e-05	0.0
19	42	-0.10	0.05	-9.67e-03	9.22e-05	-9.84e-05	0.0
19	58	-0.09	0.03	-0.07	2.35e-04	-2.21e-04	0.0
19	61	-0.03	0.05	-0.05	1.72e-04	1.51e-04	0.0
19	62	-0.08	0.04	-0.06	1.93e-04	-1.65e-04	0.0
19	63	-0.05	0.05	-0.06	1.93e-04	-8.53e-06	0.0
19	64	-0.03	0.05	-0.05	1.72e-04	1.51e-04	0.0
19	65	-0.05	0.07	-2.09e-04	6.83e-05	1.75e-06	0.0
20	1	-0.13	0.05	-0.12	1.16e-04	-2.97e-04	0.0
20	3	-0.09	0.06	-0.13	3.96e-05	-4.23e-05	0.0

20	5	-0.04	0.06	-0.10	7.47e-05	2.24e-04	0.0
20	10	-0.09	-2.43e-03	-0.04	6.94e-05	-9.21e-05	0.0
20	17	-0.02	0.14	0.03	-4.67e-05	6.42e-05	0.0
20	19	-0.15	0.04	-0.02	5.61e-05	-2.18e-04	0.0
20	34	-0.07	0.03	-0.02	4.28e-05	-5.49e-05	0.0
20	41	-0.04	0.11	0.01	-2.00e-05	2.70e-05	0.0
20	42	-0.11	0.05	-0.01	3.42e-05	-1.19e-04	0.0
20	58	-0.09	0.03	-0.09	8.70e-05	-2.19e-04	0.0
20	61	-0.03	0.05	-0.06	4.52e-05	1.21e-04	0.0
20	62	-0.09	0.04	-0.06	6.81e-05	-1.68e-04	0.0
20	63	-0.06	0.05	-0.07	2.57e-05	-2.63e-05	0.0
20	64	-0.03	0.05	-0.06	4.52e-05	1.21e-04	0.0
20	65	-0.06	0.07	-3.27e-03	1.14e-05	-1.40e-05	0.0
21	1	-0.12	0.04	-0.09	2.16e-04	-1.28e-04	0.0
21	5	-0.03	0.05	-0.12	1.56e-04	4.09e-04	0.0
21	12	-0.03	-6.60e-03	-0.03	8.25e-05	7.18e-05	0.0
21	17	-0.02	0.13	0.02	-6.26e-05	1.31e-04	0.0
21	19	-0.15	0.03	5.15e-04	5.06e-05	-1.56e-04	0.0
21	36	-0.04	0.02	-0.02	5.27e-05	5.83e-05	0.0
21	41	-0.03	0.10	8.25e-03	-2.77e-05	8.98e-05	0.0
21	42	-0.10	0.05	-2.97e-03	3.52e-05	-5.76e-05	0.0
21	58	-0.09	0.03	-0.06	1.58e-04	-9.61e-05	0.0
21	61	-0.03	0.04	-0.06	8.91e-05	2.38e-04	0.0
21	62	-0.08	0.03	-0.05	1.22e-04	-6.09e-05	0.0
21	64	-0.03	0.04	-0.06	8.91e-05	2.38e-04	0.0
21	65	-0.05	0.06	-2.41e-03	1.49e-05	4.47e-05	0.0
22	1	-0.14	0.06	-0.15	-7.39e-05	-3.01e-04	0.0
22	5	-0.05	0.07	-0.09	-1.74e-06	1.25e-04	0.0
22	17	-0.03	0.15	0.04	-6.55e-05	4.36e-05	0.0
22	18	-0.16	0.05	-0.05	4.41e-05	-2.42e-04	0.0
22	19	-0.16	0.05	-0.04	4.70e-05	-2.44e-04	0.0
22	34	-0.08	0.04	-0.03	1.54e-05	-7.06e-05	0.0
22	41	-0.05	0.12	0.02	-3.74e-05	7.61e-06	0.0
22	42	-0.11	0.06	-0.03	1.56e-05	-1.40e-04	0.0
22	58	-0.10	0.04	-0.11	-4.99e-05	-2.22e-04	0.0
22	61	-0.04	0.06	-0.05	0.0	6.25e-05	0.0
22	62	-0.09	0.05	-0.08	-4.02e-05	-1.74e-04	0.0
22	64	-0.04	0.06	-0.05	0.0	6.25e-05	0.0
22	65	-0.06	0.08	-5.37e-03	-1.10e-05	-3.15e-05	0.0
23	1	-0.14	0.05	-0.12	-2.02e-05	-2.73e-04	0.0
23	5	-0.05	0.06	-0.10	-6.25e-05	1.57e-04	0.0
23	10	-0.10	-2.25e-03	-0.04	3.52e-05	-1.02e-04	0.0
23	17	-0.03	0.14	0.03	-8.55e-05	4.38e-05	0.0
23	19	-0.16	0.04	-0.02	2.15e-05	-2.42e-04	0.0
23	34	-0.08	0.03	-0.02	4.52e-06	-6.74e-05	0.0
23	41	-0.05	0.11	0.02	-5.48e-05	8.81e-06	0.0
23	42	-0.11	0.05	-0.02	-3.71e-06	-1.39e-04	0.0
23	58	-0.10	0.04	-0.09	-1.01e-05	-2.01e-04	0.0
23	61	-0.04	0.05	-0.06	-3.74e-05	8.04e-05	0.0
23	62	-0.09	0.04	-0.07	-1.39e-05	-1.58e-04	0.0
23	64	-0.04	0.05	-0.06	-3.74e-05	8.04e-05	0.0
23	65	-0.06	0.07	-2.66e-03	-2.51e-05	-2.93e-05	0.0
24	1	-0.14	0.04	-0.10	-6.06e-06	-2.41e-04	0.0
24	5	-0.05	0.05	-0.12	-1.63e-04	1.78e-04	0.0
24	12	-0.04	-6.24e-03	-0.03	1.12e-05	2.78e-05	0.0
24	17	-0.03	0.13	0.03	-1.12e-04	4.52e-05	0.0
24	19	-0.16	0.03	-2.54e-03	-6.17e-06	-2.41e-04	0.0
24	36	-0.05	0.02	-0.02	-1.67e-05	0.0	0.0
24	41	-0.05	0.10	0.02	-7.80e-05	1.10e-05	0.0
24	42	-0.11	0.05	-3.47e-03	-2.71e-05	-1.36e-04	0.0
24	58	-0.10	0.03	-0.07	0.0	-1.78e-04	0.0
24	61	-0.04	0.04	-0.06	-9.79e-05	9.29e-05	0.0
24	62	-0.09	0.04	-0.05	-1.09e-05	-1.40e-04	0.0
24	64	-0.04	0.04	-0.06	-9.79e-05	9.29e-05	0.0
24	65	-0.06	0.06	-2.07e-04	-4.47e-05	-2.66e-05	0.0
25	1	-0.05	9.30e-03	0.01	7.37e-05	-2.26e-04	-1.17e-04
25	5	-0.02	0.01	-0.12	3.19e-05	1.23e-04	-1.15e-04
25	15	-0.04	0.06	-2.62e-03	-1.58e-04	-6.70e-05	-8.22e-05
25	19	-0.08	7.18e-03	0.07	-1.84e-05	-2.96e-04	-7.92e-05
25	24	0.03	0.03	-0.09	-8.85e-05	2.51e-04	-1.04e-04
25	39	-0.03	0.04	-7.71e-03	-1.09e-04	-4.50e-05	-8.39e-05
25	42	-0.05	0.01	0.03	-3.52e-05	-1.63e-04	-8.04e-05
25	48	8.30e-03	0.02	-0.05	-7.16e-05	1.19e-04	-1.03e-04
25	58	-0.04	6.89e-03	0.01	5.46e-05	-1.67e-04	-8.71e-05
25	61	-0.01	0.01	-0.07	4.38e-06	6.31e-05	-8.67e-05



25	62	-0.03	9.37e-03	5.25e-03	2.76e-05	-1.31e-04	-8.82e-05
25	64	-0.01	0.01	-0.07	4.38e-06	6.31e-05	-8.67e-05
25	65	-0.02	0.02	-0.01	-5.34e-05	-2.25e-05	-9.18e-05
26	1	-0.05	0.02	-6.62e-03	8.08e-05	0.0	-9.97e-05
26	5	-0.02	0.02	-0.11	4.60e-05	0.0	-1.16e-04
26	14	-0.04	0.07	-0.01	-1.69e-04	0.0	-6.18e-05
26	19	-0.08	0.01	0.04	-1.46e-05	0.0	-5.84e-05
26	24	0.03	0.03	-0.07	-9.22e-05	0.0	-9.10e-05
26	38	-0.03	0.05	-0.01	-1.14e-04	0.0	-6.48e-05
26	42	-0.05	0.02	0.02	-3.31e-05	0.0	-6.17e-05
26	48	8.50e-03	0.03	-0.04	-7.35e-05	0.0	-8.77e-05
26	58	-0.04	0.01	-2.55e-03	5.96e-05	0.0	-7.36e-05
26	61	-0.01	0.02	-0.06	1.20e-05	0.0	-8.27e-05
26	62	-0.03	0.02	-4.99e-03	3.13e-05	0.0	-7.39e-05
26	64	-0.01	0.02	-0.06	1.20e-05	0.0	-8.27e-05
26	65	-0.02	0.02	-0.01	-5.34e-05	0.0	-7.47e-05
27	1	-0.03	0.02	-6.61e-03	4.85e-05	-1.92e-04	-9.25e-05
27	5	-0.03	0.02	-0.11	-2.61e-05	1.60e-04	-1.01e-04
27	15	-0.03	0.05	-6.41e-03	-1.59e-04	-3.74e-05	-5.00e-05
27	22	-0.05	0.03	0.03	-7.41e-05	-2.49e-04	-5.33e-05
27	24	0.01	0.03	-0.07	-1.18e-04	2.81e-04	-7.48e-05
27	39	-0.03	0.04	-9.82e-03	-1.15e-04	-1.78e-05	-5.60e-05
27	46	-0.04	0.03	0.01	-7.01e-05	-1.28e-04	-5.52e-05
27	48	-3.22e-03	0.02	-0.04	-9.24e-05	1.46e-04	-7.66e-05
27	58	-0.02	0.02	-2.55e-03	3.69e-05	-1.42e-04	-6.84e-05
27	59	-0.02	0.02	-4.99e-03	1.14e-05	-1.06e-04	-6.85e-05
27	61	-0.02	0.02	-0.06	-3.00e-05	8.95e-05	-7.32e-05
27	62	-0.02	0.02	-4.99e-03	1.14e-05	-1.06e-04	-6.85e-05
27	64	-0.02	0.02	-0.06	-3.00e-05	8.95e-05	-7.32e-05
27	65	-0.02	0.02	-0.01	-6.51e-05	1.93e-06	-6.88e-05
28	1	-0.07	2.74e-03	0.01	6.72e-05	-2.01e-04	-1.26e-04
28	5	-3.76e-03	9.70e-03	-0.12	3.15e-05	1.31e-04	-1.29e-04
28	15	-0.04	0.08	-2.96e-03	-1.64e-04	-4.28e-05	-1.04e-04
28	19	-0.11	9.16e-03	0.07	-2.60e-05	-2.70e-04	-8.14e-05
28	24	0.06	0.03	-0.09	-9.31e-05	2.69e-04	-1.22e-04
28	39	-0.03	0.05	-8.03e-03	-1.15e-04	-2.17e-05	-1.00e-04
28	42	-0.07	0.02	0.03	-4.20e-05	-1.39e-04	-8.63e-05
28	48	0.02	0.03	-0.05	-7.69e-05	1.93e-04	-1.17e-04
28	58	-0.05	2.04e-03	0.01	4.96e-05	-1.48e-04	-9.36e-05
28	61	-7.87e-03	0.01	-0.07	2.54e-06	7.38e-05	-9.73e-05
28	62	-0.04	7.00e-03	4.99e-03	2.23e-05	-1.11e-04	-9.57e-05
28	64	-7.87e-03	0.01	-0.07	2.54e-06	7.38e-05	-9.73e-05
28	65	-0.02	0.02	-0.01	-5.95e-05	0.0	-1.02e-04
29	1	-0.07	0.01	-7.11e-03	4.57e-05	0.0	-1.12e-04
29	5	-3.71e-03	0.02	-0.11	-7.66e-06	0.0	-1.29e-04
29	15	-0.04	0.09	-6.58e-03	-1.89e-04	0.0	-8.45e-05
29	19	-0.11	0.02	0.04	-3.17e-05	0.0	-6.29e-05
29	24	0.06	0.04	-0.07	-1.19e-04	0.0	-1.09e-04
29	39	-0.03	0.06	-0.01	-1.35e-04	0.0	-8.21e-05
29	42	-0.07	0.02	0.02	-5.25e-05	0.0	-6.95e-05
29	48	0.02	0.04	-0.04	-9.76e-05	0.0	-1.02e-04
29	58	-0.05	9.54e-03	-2.91e-03	3.41e-05	0.0	-8.28e-05
29	61	-7.81e-03	0.02	-0.06	-2.29e-05	0.0	-9.28e-05
29	62	-0.04	0.01	-5.33e-03	6.77e-06	0.0	-8.35e-05
29	64	-7.81e-03	0.02	-0.06	-2.29e-05	0.0	-9.28e-05
29	65	-0.02	0.03	-0.01	-7.51e-05	0.0	-8.57e-05
30	1	-0.09	-3.75e-03	0.01	7.57e-05	-2.02e-04	-1.25e-04
30	2	-0.08	-0.01	0.02	9.49e-05	-2.01e-04	-8.99e-05
30	5	7.46e-03	5.92e-03	-0.12	5.30e-05	1.12e-04	-1.33e-04
30	15	-0.05	0.09	-3.15e-03	-1.55e-04	-3.54e-05	-1.07e-04
30	19	-0.13	0.01	0.07	-1.97e-05	-2.63e-04	-7.53e-05
30	24	0.08	0.04	-0.09	-9.26e-05	2.65e-04	-1.25e-04
30	39	-0.04	0.06	-8.21e-03	-1.08e-04	-1.72e-05	-1.01e-04
30	42	-0.08	0.02	0.03	-3.69e-05	-1.35e-04	-8.25e-05
30	48	0.03	0.03	-0.05	-7.52e-05	1.37e-04	-1.18e-04
30	58	-0.06	-2.75e-03	0.01	5.57e-05	-1.49e-04	-9.26e-05
30	61	-1.61e-03	0.01	-0.07	1.51e-05	6.36e-05	-9.88e-05
30	62	-0.05	4.74e-03	4.84e-03	2.77e-05	-1.11e-04	-9.45e-05
30	64	-1.61e-03	0.01	-0.07	1.51e-05	6.36e-05	-9.88e-05
30	65	-0.02	0.03	-0.01	-5.62e-05	1.08e-06	-1.00e-04
31	1	-0.09	7.15e-03	-7.52e-03	8.58e-05	-2.26e-04	-1.14e-04
31	5	7.56e-03	0.02	-0.11	1.07e-04	9.31e-05	-1.23e-04
31	15	-0.05	0.10	-6.80e-03	-1.60e-04	-4.96e-05	-9.92e-05
31	19	-0.13	0.02	0.04	-2.26e-05	-2.88e-04	-6.09e-05
31	24	0.08	0.05	-0.07	-9.18e-05	2.61e-04	-1.24e-04

31	39	-0.04	0.07	-0.01	-1.12e-04	-3.15e-05	-9.31e-05
31	42	-0.08	0.03	0.01	-3.85e-05	-1.54e-04	-7.17e-05
31	48	0.03	0.04	-0.04	-7.54e-05	1.28e-04	-1.13e-04
31	58	-0.06	5.33e-03	-3.21e-03	6.24e-05	-1.66e-04	-8.45e-05
31	61	-1.55e-03	0.02	-0.06	4.45e-05	4.93e-05	-9.15e-05
31	62	-0.05	0.01	-5.59e-03	3.25e-05	-1.28e-04	-8.65e-05
31	64	-1.55e-03	0.02	-0.06	4.45e-05	4.93e-05	-9.15e-05
31	65	-0.02	0.04	-0.01	-5.72e-05	-1.34e-05	-9.24e-05
32	1	-0.05	0.03	-0.03	1.03e-04	-2.74e-04	-9.71e-05
32	5	-0.02	0.03	-0.10	7.96e-05	6.65e-05	-1.02e-04
32	14	-0.04	0.08	-0.01	-1.64e-04	-9.94e-05	-7.53e-05
32	19	-0.08	0.02	0.02	6.69e-06	-3.41e-04	-6.74e-05
32	24	0.03	0.04	-0.05	-9.38e-05	2.38e-04	-8.35e-05
32	38	-0.03	0.06	-0.01	-1.07e-04	-7.62e-05	-7.27e-05
32	42	-0.05	0.03	2.21e-03	-1.71e-05	-2.00e-04	-6.66e-05
32	48	8.33e-03	0.04	-0.03	-6.96e-05	9.78e-05	-8.44e-05
32	58	-0.04	0.02	-0.02	7.56e-05	-2.02e-04	-7.19e-05
32	61	-0.01	0.03	-0.05	3.29e-05	2.48e-05	-7.53e-05
32	62	-0.03	0.02	-0.02	4.58e-05	-1.65e-04	-7.28e-05
32	64	-0.01	0.03	-0.05	3.29e-05	2.48e-05	-7.53e-05
32	65	-0.02	0.03	-0.01	-4.36e-05	-5.14e-05	-7.54e-05
33	1	-0.07	0.02	-0.03	2.77e-05	-1.89e-04	-8.20e-05
33	5	-4.19e-03	0.03	-0.10	-4.60e-05	1.65e-04	-8.81e-05
33	17	5.41e-03	0.09	-0.03	-2.19e-04	1.30e-04	-8.03e-05
33	19	-0.11	0.02	0.02	-3.05e-05	-2.77e-04	-3.80e-05
33	24	0.06	0.05	-0.05	-1.48e-04	3.02e-04	-1.03e-04
33	39	-0.03	0.07	-0.01	-1.51e-04	-1.27e-05	-6.26e-05
33	42	-0.07	0.03	2.36e-03	-5.90e-05	-1.37e-04	-4.85e-05
33	48	0.02	0.05	-0.03	-1.20e-04	1.62e-04	-9.21e-05
33	58	-0.05	0.02	-0.02	2.11e-05	-1.39e-04	-6.07e-05
33	61	-8.15e-03	0.03	-0.06	-4.75e-05	9.51e-05	-6.64e-05
33	62	-0.04	0.02	-0.02	-6.55e-06	-1.01e-04	-6.31e-05
33	64	-8.15e-03	0.03	-0.06	-4.75e-05	9.51e-05	-6.64e-05
33	65	-0.02	0.04	-0.01	-8.95e-05	1.24e-05	-7.03e-05
34	1	-0.09	0.02	-0.03	8.98e-05	-1.70e-04	-1.17e-04
34	5	7.87e-03	0.03	-0.10	1.53e-04	1.09e-04	-1.29e-04
34	17	0.02	0.11	-0.03	-1.62e-04	1.06e-04	-1.08e-04
34	19	-0.13	0.02	0.02	-3.10e-05	-2.10e-04	-6.25e-05
34	24	0.08	0.07	-0.05	-7.95e-05	2.31e-04	-1.25e-04
34	39	-0.04	0.08	-0.01	-1.14e-04	-4.69e-06	-8.89e-05
34	42	-0.08	0.03	2.59e-03	-4.19e-05	-1.03e-04	-7.25e-05
34	48	0.03	0.05	-0.03	-6.81e-05	1.24e-04	-1.15e-04
34	58	-0.06	0.01	-0.02	6.48e-05	-1.24e-04	-8.67e-05
34	61	-1.30e-03	0.03	-0.06	6.99e-05	6.45e-05	-9.48e-05
34	62	-0.05	0.02	-0.02	3.48e-05	-9.07e-05	-8.85e-05
34	64	-1.30e-03	0.03	-0.06	6.99e-05	6.45e-05	-9.48e-05
34	65	-0.02	0.04	-0.01	-5.53e-05	1.01e-05	-9.38e-05
35	1	-0.10	0.01	-0.02	6.23e-05	-2.44e-04	-1.12e-04
35	5	-0.07	0.01	-0.14	2.96e-05	8.99e-05	-1.18e-04
35	6	-0.05	6.99e-03	-0.14	5.15e-05	1.08e-04	-8.77e-05
35	15	-0.08	0.06	0.07	-1.72e-04	-1.15e-04	-8.36e-05
35	19	-0.11	8.55e-03	0.08	-3.51e-05	-2.75e-04	-7.16e-05
35	23	-0.11	0.04	0.10	-9.96e-05	-2.74e-04	-7.27e-05
35	39	-0.07	0.05	0.05	-1.21e-04	-8.18e-05	-8.45e-05
35	42	-0.09	0.01	0.05	-4.83e-05	-1.64e-04	-7.31e-05
35	46	-0.09	0.03	0.06	-8.26e-05	-1.63e-04	-7.44e-05
35	58	-0.08	8.09e-03	-0.02	4.60e-05	-1.80e-04	-8.27e-05
35	61	-0.06	0.01	-0.07	0.0	3.87e-05	-8.69e-05
35	62	-0.07	0.01	-7.93e-03	1.86e-05	-1.47e-04	-8.35e-05
35	64	-0.06	0.01	-0.07	0.0	3.87e-05	-8.69e-05
35	65	-0.06	0.02	0.02	-6.34e-05	-4.76e-05	-8.60e-05
36	1	-0.10	0.02	-0.05	2.53e-05	7.35e-06	-1.48e-04
36	5	-0.07	0.02	-0.13	-3.28e-06	5.54e-06	-1.16e-04
36	6	-0.05	0.01	-0.13	3.02e-05	3.15e-06	-7.23e-05
36	15	-0.08	0.08	0.06	-2.18e-04	9.48e-06	-1.40e-04
36	19	-0.11	0.02	0.06	-5.31e-05	5.11e-06	-1.22e-04
36	23	-0.11	0.05	0.08	-1.27e-04	6.72e-06	-1.28e-04
36	39	-0.07	0.06	0.04	-1.63e-04	8.85e-06	-1.36e-04
36	42	-0.09	0.02	0.03	-7.32e-05	5.91e-06	-1.19e-04
36	46	-0.09	0.04	0.04	-1.14e-04	7.05e-06	-1.24e-04
36	58	-0.08	0.02	-0.03	1.84e-05	5.52e-06	-1.11e-04
36	61	-0.06	0.02	-0.07	-2.64e-05	4.92e-06	-9.80e-05
36	62	-0.07	0.02	-0.02	-1.05e-05	5.93e-06	-1.16e-04
36	64	-0.06	0.02	-0.07	-2.64e-05	4.92e-06	-9.80e-05
36	65	-0.06	0.03	0.01	-9.71e-05	7.14e-06	-1.30e-04

37	1	-0.08	0.03	-0.05	7.91e-05	-2.16e-04	-1.18e-04
37	5	-0.08	0.03	-0.13	8.88e-05	1.20e-04	-1.15e-04
37	6	-0.06	0.02	-0.13	1.13e-04	1.32e-04	-8.39e-05
37	14	-0.07	0.06	0.06	-2.06e-04	-1.05e-04	-7.82e-05
37	19	-0.09	0.01	0.06	-6.27e-05	-2.55e-04	-8.49e-05
37	23	-0.09	0.03	0.08	-1.37e-04	-2.59e-04	-7.99e-05
37	38	-0.06	0.04	0.04	-1.48e-04	-7.03e-05	-8.13e-05
37	42	-0.07	0.02	0.03	-6.68e-05	-1.47e-04	-8.16e-05
37	46	-0.07	0.03	0.04	-1.08e-04	-1.48e-04	-7.88e-05
37	59	-0.06	0.02	-0.02	2.35e-05	-1.28e-04	-8.76e-05
37	61	-0.06	0.02	-0.07	2.89e-05	5.88e-05	-8.60e-05
37	62	-0.06	0.02	-0.02	2.35e-05	-1.28e-04	-8.76e-05
37	64	-0.06	0.02	-0.07	2.89e-05	5.88e-05	-8.60e-05
37	65	-0.06	0.02	0.01	-7.64e-05	-3.32e-05	-8.86e-05
38	1	-0.12	4.51e-03	-0.02	7.55e-05	-2.30e-04	-1.13e-04
38	5	-0.06	0.01	-0.14	3.41e-05	9.40e-05	-1.24e-04
38	6	-0.04	2.22e-03	-0.14	5.17e-05	1.07e-04	-9.16e-05
38	15	-0.09	0.08	0.07	-1.54e-04	-9.98e-05	-9.60e-05
38	19	-0.14	0.01	0.08	-2.12e-05	-2.59e-04	-6.19e-05
38	23	-0.14	0.04	0.10	-8.29e-05	-2.58e-04	-6.93e-05
38	39	-0.08	0.06	0.05	-1.04e-04	-6.76e-05	-9.36e-05
38	42	-0.10	0.02	0.05	-3.52e-05	-1.49e-04	-7.08e-05
38	46	-0.10	0.04	0.06	-6.73e-05	-1.48e-04	-7.53e-05
38	58	-0.09	3.38e-03	-0.02	5.60e-05	-1.69e-04	-8.40e-05
38	61	-0.05	0.01	-0.07	6.43e-06	4.45e-05	-9.16e-05
38	62	-0.09	8.39e-03	-8.06e-03	2.95e-05	-1.35e-04	-8.59e-05
38	64	-0.05	0.01	-0.07	6.43e-06	4.45e-05	-9.16e-05
38	65	-0.07	0.02	0.01	-5.01e-05	-3.42e-05	-9.15e-05
39	1	-0.12	0.02	-0.05	1.02e-04	-5.53e-06	-1.56e-04
39	5	-0.06	0.02	-0.13	5.85e-05	0.0	-1.21e-04
39	6	-0.04	9.61e-03	-0.13	6.94e-05	0.0	-7.39e-05
39	15	-0.09	0.09	0.06	-1.32e-04	-7.06e-06	-1.54e-04
39	19	-0.14	0.02	0.06	1.03e-05	-7.21e-06	-1.16e-04
39	23	-0.14	0.05	0.08	-5.24e-05	-7.71e-06	-1.28e-04
39	39	-0.08	0.07	0.04	-8.10e-05	-6.84e-06	-1.48e-04
39	42	-0.10	0.03	0.03	-1.02e-05	-6.23e-06	-1.20e-04
39	46	-0.10	0.05	0.04	-4.14e-05	-6.78e-06	-1.28e-04
39	58	-0.09	0.01	-0.03	7.56e-05	-4.24e-06	-1.16e-04
39	61	-0.05	0.02	-0.07	2.51e-05	-2.06e-06	-1.03e-04
39	62	-0.09	0.02	-0.02	4.92e-05	-4.58e-06	-1.22e-04
39	64	-0.05	0.02	-0.07	2.51e-05	-2.06e-06	-1.03e-04
39	65	-0.07	0.03	0.01	-3.02e-05	-5.62e-06	-1.39e-04
40	1	-0.15	-1.97e-03	-0.02	6.88e-05	-2.32e-04	-1.15e-04
40	2	-0.12	-0.01	-0.03	8.70e-05	-2.18e-04	-8.20e-05
40	6	-0.03	-1.84e-03	-0.14	3.45e-05	8.96e-05	-9.42e-05
40	15	-0.10	0.09	0.07	-1.52e-04	-1.00e-04	-9.91e-05
40	19	-0.16	0.01	0.08	-2.61e-05	-2.55e-04	-5.83e-05
40	23	-0.16	0.05	0.10	-8.60e-05	-2.55e-04	-6.68e-05
40	39	-0.08	0.07	0.05	-1.04e-04	-6.76e-05	-9.51e-05
40	42	-0.12	0.02	0.05	-3.82e-05	-1.47e-04	-7.09e-05
40	46	-0.12	0.04	0.06	-6.93e-05	-1.47e-04	-7.51e-05
40	58	-0.11	-1.44e-03	-0.02	5.12e-05	-1.71e-04	-8.53e-05
40	61	-0.05	0.01	-0.07	-3.53e-06	3.47e-05	-9.44e-05
40	62	-0.10	5.97e-03	-8.15e-03	2.57e-05	-1.36e-04	-8.76e-05
40	64	-0.05	0.01	-0.07	-3.53e-06	3.47e-05	-9.44e-05
40	65	-0.07	0.03	0.01	-5.10e-05	-3.39e-05	-9.47e-05
41	1	-0.15	8.98e-03	-0.05	7.54e-05	-2.40e-04	-1.25e-04
41	5	-0.06	0.02	-0.13	-4.02e-05	6.47e-05	-1.32e-04
41	6	-0.03	7.12e-03	-0.13	-2.74e-05	8.08e-05	-9.54e-05
41	15	-0.10	0.10	0.06	-1.21e-04	-1.07e-04	-1.10e-04
41	19	-0.16	0.02	0.06	0.0	-2.59e-04	-7.09e-05
41	23	-0.16	0.06	0.08	-5.50e-05	-2.59e-04	-7.95e-05
41	39	-0.08	0.07	0.04	-7.47e-05	-7.40e-05	-1.05e-04
41	42	-0.12	0.03	0.03	-1.57e-05	-1.52e-04	-8.17e-05
41	46	-0.12	0.05	0.04	-4.29e-05	-1.52e-04	-8.60e-05
41	58	-0.11	6.67e-03	-0.03	5.76e-05	-1.76e-04	-9.30e-05
41	61	-0.05	0.02	-0.07	-2.85e-05	2.69e-05	-9.92e-05
41	62	-0.10	0.01	-0.02	3.57e-05	-1.42e-04	-9.58e-05
41	64	-0.05	0.02	-0.07	-2.85e-05	2.69e-05	-9.92e-05
41	65	-0.07	0.04	0.01	-2.99e-05	-4.04e-05	-1.04e-04
42	1	-0.10	0.03	-0.07	-1.22e-05	6.76e-06	-1.04e-04
42	5	-0.07	0.03	-0.12	-2.79e-05	8.01e-06	-9.59e-05
42	15	-0.08	0.09	0.06	-2.71e-04	2.97e-06	-9.66e-05
42	19	-0.11	0.03	0.03	-8.10e-05	3.45e-06	-8.12e-05
42	23	-0.11	0.06	0.06	-1.64e-04	3.18e-06	-8.40e-05

42	39	-0.07	0.07	0.03	-2.12e-04	3.42e-06	-9.51e-05
42	42	-0.09	0.03	0.02	-1.06e-04	3.49e-06	-8.24e-05
42	58	-0.08	0.03	-0.05	-9.98e-06	4.93e-06	-7.77e-05
42	59	-0.07	0.03	-0.03	-4.16e-05	4.58e-06	-8.22e-05
42	61	-0.06	0.03	-0.06	-5.03e-05	5.28e-06	-7.78e-05
42	62	-0.07	0.03	-0.03	-4.16e-05	4.58e-06	-8.22e-05
42	64	-0.06	0.03	-0.06	-5.03e-05	5.28e-06	-7.78e-05
42	65	-0.06	0.04	8.08e-03	-1.36e-04	3.52e-06	-9.56e-05
43	1	-0.12	0.03	-0.07	1.18e-04	-5.44e-06	-1.15e-04
43	5	-0.06	0.03	-0.12	6.55e-05	-8.48e-06	-1.08e-04
43	15	-0.09	0.10	0.05	-1.11e-04	-3.65e-06	-1.14e-04
43	19	-0.14	0.03	0.03	4.05e-05	-2.30e-06	-8.29e-05
43	23	-0.14	0.06	0.06	-2.30e-05	-2.73e-06	-9.05e-05
43	39	-0.08	0.08	0.03	-5.95e-05	-3.58e-06	-1.09e-04
43	42	-0.10	0.04	0.02	1.35e-05	-2.69e-06	-8.85e-05
43	58	-0.09	0.02	-0.05	8.81e-05	-3.95e-06	-8.61e-05
43	61	-0.05	0.03	-0.06	3.41e-05	-5.44e-06	-8.75e-05
43	62	-0.09	0.03	-0.03	6.31e-05	-3.75e-06	-9.12e-05
43	64	-0.05	0.03	-0.06	3.41e-05	-5.44e-06	-8.75e-05
43	65	-0.07	0.05	7.87e-03	-1.19e-05	-3.15e-06	-1.06e-04
44	1	-0.15	0.02	-0.07	7.35e-05	-2.38e-04	-1.21e-04
44	5	-0.06	0.03	-0.12	-1.01e-04	8.59e-05	-1.30e-04
44	17	-0.04	0.11	0.03	-9.76e-05	2.55e-05	-1.20e-04
44	19	-0.16	0.03	0.03	2.58e-05	-2.59e-04	-6.95e-05
44	23	-0.16	0.06	0.06	-2.45e-05	-2.64e-04	-7.64e-05
44	39	-0.08	0.08	0.03	-4.81e-05	-7.30e-05	-9.97e-05
44	42	-0.12	0.04	0.02	4.54e-06	-1.52e-04	-7.93e-05
44	58	-0.11	0.01	-0.05	5.79e-05	-1.75e-04	-8.99e-05
44	61	-0.05	0.03	-0.06	-5.64e-05	3.86e-05	-9.71e-05
44	62	-0.10	0.02	-0.03	4.04e-05	-1.41e-04	-9.25e-05
44	64	-0.05	0.03	-0.06	-5.64e-05	3.86e-05	-9.71e-05
44	65	-0.07	0.05	7.68e-03	-1.20e-05	-4.01e-05	-1.00e-04
45	1	-0.10	0.03	-0.05	1.51e-04	-6.09e-05	0.0
45	5	-5.94e-03	0.04	-0.11	2.53e-04	3.36e-04	0.0
45	17	3.65e-03	0.12	-5.66e-03	-1.01e-04	1.28e-04	0.0
45	19	-0.14	0.03	9.88e-03	-1.53e-05	-1.15e-04	0.0
45	20	0.07	0.04	-0.03	2.34e-05	2.06e-04	0.0
45	41	-0.01	0.09	-6.93e-03	-6.37e-05	9.29e-05	0.0
45	42	-0.09	0.04	-4.95e-04	-1.67e-05	-3.09e-05	0.0
45	44	0.02	0.04	-0.02	2.32e-06	1.32e-04	0.0
45	58	-0.07	0.02	-0.03	1.09e-04	-4.57e-05	0.0
45	61	-0.01	0.04	-0.06	1.33e-04	2.00e-04	0.0
45	62	-0.06	0.03	-0.03	7.63e-05	-2.07e-05	0.0
45	64	-0.01	0.04	-0.06	1.33e-04	2.00e-04	0.0
45	65	-0.03	0.05	-7.65e-03	-2.11e-05	5.42e-05	0.0
46	1	-0.11	0.03	-0.07	1.68e-04	-8.07e-05	0.0
46	5	-0.02	0.04	-0.13	1.87e-04	3.72e-04	0.0
46	17	-7.08e-03	0.12	3.34e-03	-9.48e-05	1.24e-04	0.0
46	19	-0.14	0.03	0.01	3.86e-06	-1.37e-04	0.0
46	20	0.05	0.04	-0.03	1.75e-05	2.17e-04	0.0
46	41	-0.02	0.09	-1.40e-03	-5.76e-05	8.74e-05	0.0
46	42	-0.10	0.04	3.45e-04	-2.85e-06	-4.59e-05	0.0
46	44	7.76e-03	0.04	-0.02	3.16e-06	1.35e-04	0.0
46	58	-0.08	0.02	-0.05	1.22e-04	-6.07e-05	0.0
46	61	-0.02	0.04	-0.07	9.87e-05	2.18e-04	0.0
46	62	-0.07	0.03	-0.04	8.82e-05	-3.36e-05	0.0
46	64	-0.02	0.04	-0.07	9.87e-05	2.18e-04	0.0
46	65	-0.04	0.05	-6.15e-03	-1.36e-05	4.77e-05	0.0
47	1	-0.08	0.04	-0.07	1.14e-04	-2.20e-04	-1.11e-04
47	5	-0.08	0.04	-0.12	1.48e-04	1.08e-04	-1.10e-04
47	14	-0.07	0.06	0.05	-2.26e-04	-9.81e-05	-7.45e-05
47	19	-0.09	0.02	0.03	-6.45e-05	-2.50e-04	-7.80e-05
47	23	-0.09	0.04	0.06	-1.49e-04	-2.51e-04	-7.38e-05
47	38	-0.06	0.05	0.03	-1.63e-04	-6.65e-05	-7.70e-05
47	39	-0.06	0.05	0.03	-1.65e-04	-6.70e-05	-7.70e-05
47	42	-0.07	0.02	0.02	-6.77e-05	-1.44e-04	-7.61e-05
47	59	-0.06	0.03	-0.03	4.08e-05	-1.30e-04	-8.29e-05
47	61	-0.06	0.03	-0.06	5.98e-05	5.23e-05	-8.22e-05
47	62	-0.06	0.03	-0.03	4.08e-05	-1.30e-04	-8.29e-05
47	64	-0.06	0.03	-0.06	5.98e-05	5.23e-05	-8.22e-05
47	65	-0.06	0.03	8.36e-03	-7.99e-05	-3.28e-05	-8.42e-05
48	1	-0.13	0.03	-0.09	5.76e-05	-2.00e-04	0.0
48	5	-0.04	0.04	-0.14	-1.03e-04	2.37e-04	0.0
48	12	-0.03	-0.01	-0.03	2.37e-05	3.71e-05	0.0
48	17	-0.02	0.12	0.02	-1.14e-04	7.33e-05	0.0

48	19	-0.15	0.03	0.01	-1.30e-05	-2.14e-04	0.0
48	36	-0.05	0.02	-0.02	-6.41e-06	1.56e-05	0.0
48	41	-0.04	0.09	8.57e-03	-8.08e-05	3.62e-05	0.0
48	42	-0.11	0.04	2.00e-03	-2.74e-05	-1.12e-04	0.0
48	58	-0.09	0.02	-0.06	4.50e-05	-1.47e-04	0.0
48	61	-0.03	0.04	-0.08	-6.61e-05	1.31e-04	0.0
48	62	-0.09	0.03	-0.05	2.31e-05	-1.12e-04	0.0
48	64	-0.03	0.04	-0.08	-6.61e-05	1.31e-04	0.0
48	65	-0.06	0.05	-2.44e-03	-4.25e-05	-5.25e-06	0.0
49	1	-0.10	7.69e-03	-0.02	1.15e-04	-2.75e-04	0.0
49	5	-6.65e-03	0.02	-0.13	1.93e-04	-8.93e-05	0.0
49	15	-0.06	0.10	8.55e-03	-1.37e-04	-6.82e-05	0.0
49	19	-0.14	0.02	0.05	-2.63e-05	-2.83e-04	0.0
49	24	0.07	0.05	-0.06	-5.29e-05	2.09e-04	0.0
49	39	-0.05	0.07	6.86e-05	-9.11e-05	-5.23e-05	0.0
49	42	-0.09	0.03	0.02	-3.15e-05	-1.64e-04	0.0
49	48	0.02	0.04	-0.04	-4.69e-05	9.03e-05	0.0
49	58	-0.07	5.72e-03	-0.01	8.27e-05	-2.00e-04	0.0
49	61	-0.01	0.02	-0.07	9.55e-05	-5.61e-05	0.0
49	62	-0.06	0.01	-0.01	5.21e-05	-1.60e-04	0.0
49	64	-0.01	0.02	-0.07	9.55e-05	-5.61e-05	0.0
49	65	-0.03	0.04	-8.05e-03	-3.96e-05	-3.69e-05	0.0
50	1	-0.13	0.02	-0.07	2.31e-05	-2.53e-04	0.0
50	5	-0.04	0.03	-0.15	-1.47e-04	2.18e-05	0.0
50	17	-0.02	0.11	0.01	-1.42e-04	4.15e-05	0.0
50	19	-0.15	0.02	0.03	-3.90e-05	-2.46e-04	0.0
50	20	0.04	0.03	-0.05	-3.77e-05	1.64e-04	0.0
50	39	-0.07	0.08	0.02	-1.05e-04	-5.76e-05	0.0
50	42	-0.11	0.03	0.01	-5.08e-05	-1.44e-04	0.0
50	44	-9.69e-03	0.03	-0.02	-4.87e-05	6.67e-05	0.0
50	58	-0.10	0.01	-0.05	1.96e-05	-1.84e-04	0.0
50	61	-0.04	0.03	-0.08	-9.52e-05	5.26e-06	0.0
50	62	-0.09	0.02	-0.03	0.0	-1.47e-04	0.0
50	64	-0.04	0.03	-0.08	-9.52e-05	5.26e-06	0.0
50	65	-0.06	0.05	-6.63e-04	-6.24e-05	-3.58e-05	0.0
51	1	-0.11	0.02	-0.05	1.26e-04	-2.14e-04	0.0
51	5	-0.02	0.03	-0.15	1.55e-04	4.45e-05	0.0
51	17	-7.35e-03	0.11	-5.18e-03	-1.11e-04	6.99e-05	0.0
51	19	-0.14	0.02	0.03	-2.12e-05	-2.24e-04	0.0
51	20	0.05	0.03	-0.05	1.02e-05	1.71e-04	0.0
51	39	-0.06	0.08	4.04e-03	-7.82e-05	-3.23e-05	0.0
51	42	-0.10	0.03	7.68e-03	-2.44e-05	-1.23e-04	0.0
51	44	7.48e-03	0.03	-0.03	-8.83e-06	7.91e-05	0.0
51	58	-0.08	0.01	-0.04	9.11e-05	-1.56e-04	0.0
51	61	-0.02	0.03	-0.08	7.71e-05	2.22e-05	0.0
51	62	-0.07	0.02	-0.03	6.07e-05	-1.21e-04	0.0
51	64	-0.02	0.03	-0.08	7.71e-05	2.22e-05	0.0
51	65	-0.04	0.04	-7.51e-03	-3.05e-05	-1.76e-05	0.0
52	1	-0.11	7.97e-03	-0.03	9.32e-05	-3.19e-04	0.0
52	5	-0.02	0.02	-0.14	9.96e-05	-2.13e-04	0.0
52	15	-0.07	0.10	0.02	-1.40e-04	-9.13e-05	0.0
52	19	-0.14	0.02	0.05	-2.87e-05	-2.84e-04	0.0
52	20	0.05	0.02	-0.06	-6.65e-06	1.51e-04	0.0
52	39	-0.06	0.07	8.88e-03	-9.54e-05	-7.38e-05	0.0
52	42	-0.10	0.03	0.02	-3.58e-05	-1.75e-04	0.0
52	44	7.15e-03	0.02	-0.03	-2.46e-05	4.99e-05	0.0
52	58	-0.08	5.93e-03	-0.02	6.80e-05	-2.31e-04	0.0
52	61	-0.02	0.02	-0.08	4.33e-05	-1.29e-04	0.0
52	62	-0.07	0.01	-0.02	3.98e-05	-1.88e-04	0.0
52	64	-0.02	0.02	-0.08	4.33e-05	-1.29e-04	0.0
52	65	-0.04	0.04	-4.04e-03	-4.50e-05	-5.72e-05	0.0
53	1	-0.08	0.03	-0.04	9.70e-05	-9.46e-05	0.0
53	5	0.01	0.04	-0.08	1.41e-04	1.86e-04	0.0
53	17	0.02	0.12	-0.02	-1.51e-04	1.16e-04	0.0
53	19	-0.13	0.03	7.51e-03	-9.12e-06	-9.47e-05	0.0
53	24	0.09	0.08	-0.03	-8.28e-05	1.75e-04	0.0
53	41	5.38e-05	0.09	-0.02	-1.01e-04	7.99e-05	0.0
53	42	-0.08	0.04	-3.75e-03	-2.65e-05	-2.80e-05	0.0
53	48	0.04	0.07	-0.02	-6.52e-05	1.09e-04	0.0
53	58	-0.06	0.02	-0.02	7.08e-05	-6.85e-05	0.0
53	61	1.40e-03	0.04	-0.05	6.58e-05	1.15e-04	0.0
53	62	-0.05	0.03	-0.02	4.16e-05	-4.13e-05	0.0
53	64	1.40e-03	0.04	-0.05	6.58e-05	1.15e-04	0.0
53	65	-0.02	0.05	-0.01	-4.59e-05	4.03e-05	0.0
54	1	-0.12	0.03	-0.08	1.37e-04	-1.32e-04	0.0

54	5	-0.03	0.04	-0.14	6.41e-05	3.28e-04	0.0
54	12	-0.03	-0.01	-0.03	5.51e-05	5.90e-05	0.0
54	17	-0.02	0.12	0.01	-9.93e-05	1.09e-04	0.0
54	19	-0.15	0.03	0.01	5.44e-06	-1.72e-04	0.0
54	36	-0.04	0.02	-0.02	2.09e-05	4.30e-05	0.0
54	41	-0.03	0.09	3.16e-03	-6.37e-05	7.06e-05	0.0
54	42	-0.10	0.04	7.25e-04	-6.02e-06	-7.38e-05	0.0
54	58	-0.09	0.02	-0.05	1.01e-04	-9.83e-05	0.0
54	61	-0.03	0.04	-0.08	2.99e-05	1.89e-04	0.0
54	62	-0.08	0.03	-0.04	7.03e-05	-6.68e-05	0.0
54	64	-0.03	0.04	-0.08	2.99e-05	1.89e-04	0.0
54	65	-0.05	0.05	-4.82e-03	-2.08e-05	2.75e-05	0.0
55	1	-0.14	-2.06e-03	-0.02	6.07e-05	-2.25e-04	-1.07e-04
55	2	-0.11	-0.01	-0.02	8.09e-05	-2.16e-04	-7.63e-05
55	6	-0.02	-1.97e-03	-0.14	2.77e-05	4.24e-05	-9.17e-05
55	15	-0.09	0.09	0.06	-1.58e-04	-7.55e-05	-8.81e-05
55	19	-0.16	0.01	0.08	-3.30e-05	-2.37e-04	-5.04e-05
55	23	-0.16	0.05	0.10	-9.26e-05	-2.33e-04	-5.72e-05
55	39	-0.08	0.07	0.04	-1.10e-04	-4.56e-05	-8.51e-05
55	42	-0.11	0.02	0.04	-4.43e-05	-1.30e-04	-6.31e-05
55	46	-0.11	0.04	0.05	-7.55e-05	-1.27e-04	-6.61e-05
55	58	-0.10	-1.50e-03	-0.01	4.53e-05	-1.64e-04	-7.90e-05
55	61	-0.04	0.01	-0.07	-9.74e-06	1.67e-05	-8.95e-05
55	62	-0.09	5.92e-03	-6.44e-03	1.98e-05	-1.27e-04	-8.10e-05
55	64	-0.04	0.01	-0.07	-9.74e-06	1.67e-05	-8.95e-05
55	65	-0.06	0.03	0.01	-5.65e-05	-1.54e-05	-8.68e-05
56	1	-0.10	0.04	-0.09	-2.11e-05	0.0	-8.87e-05
56	5	-0.07	0.04	-0.11	-3.86e-05	0.0	-1.11e-04
56	15	-0.08	0.09	0.05	-2.98e-04	1.09e-06	-7.69e-05
56	19	-0.11	0.03	0.01	-9.08e-05	0.0	-6.14e-05
56	39	-0.07	0.07	0.03	-2.35e-04	0.0	-7.75e-05
56	42	-0.09	0.04	6.81e-03	-1.19e-04	0.0	-6.65e-05
56	58	-0.08	0.03	-0.06	-1.69e-05	0.0	-6.61e-05
56	59	-0.07	0.04	-0.04	-5.12e-05	0.0	-7.02e-05
56	62	-0.07	0.04	-0.04	-5.12e-05	0.0	-7.02e-05
56	64	-0.06	0.04	-0.06	-6.09e-05	0.0	-8.26e-05
56	65	-0.06	0.05	4.78e-03	-1.54e-04	0.0	-8.23e-05
57	1	-0.08	0.05	-0.09	1.57e-04	-2.28e-04	-1.06e-04
57	5	-0.08	0.05	-0.11	1.77e-04	9.69e-05	-1.09e-04
57	14	-0.07	0.07	0.04	-2.21e-04	-9.68e-05	-7.14e-05
57	15	-0.07	0.07	0.05	-2.28e-04	-9.82e-05	-7.15e-05
57	19	-0.09	0.03	0.01	-3.97e-05	-7.28e-04	-7.28e-05
57	38	-0.06	0.05	0.03	-1.58e-04	-6.72e-05	-7.34e-05
57	39	-0.06	0.05	0.03	-1.60e-04	-6.76e-05	-7.34e-05
57	42	-0.07	0.03	7.14e-03	-5.04e-05	-1.45e-04	-7.19e-05
57	58	-0.06	0.03	-0.06	1.12e-04	-1.68e-04	-7.88e-05
57	61	-0.06	0.03	-0.06	7.70e-05	4.56e-05	-8.09e-05
57	62	-0.06	0.03	-0.04	6.62e-05	-1.35e-04	-7.93e-05
57	64	-0.06	0.03	-0.06	7.70e-05	4.56e-05	-8.09e-05
57	65	-0.06	0.03	5.14e-03	-7.23e-05	-3.60e-05	-8.06e-05
58	1	-0.12	0.04	-0.09	1.05e-04	1.44e-06	-9.84e-05
58	5	-0.06	0.04	-0.11	4.76e-05	1.00e-06	-1.27e-04
58	15	-0.09	0.11	0.05	-1.16e-04	0.0	-9.29e-05
58	17	-0.04	0.11	0.04	-1.31e-04	1.16e-06	-1.08e-04
58	19	-0.14	0.04	0.01	4.34e-05	0.0	-6.48e-05
58	39	-0.08	0.09	0.03	-6.29e-05	0.0	-9.05e-05
58	41	-0.06	0.09	0.02	-7.05e-05	0.0	-1.01e-04
58	42	-0.10	0.04	6.53e-03	1.32e-05	0.0	-7.28e-05
58	58	-0.09	0.03	-0.06	7.88e-05	1.05e-06	-7.33e-05
58	61	-0.05	0.04	-0.06	2.37e-05	0.0	-9.37e-05
58	62	-0.09	0.04	-0.05	5.54e-05	0.0	-7.80e-05
58	64	-0.05	0.04	-0.06	2.37e-05	0.0	-9.37e-05
58	65	-0.07	0.05	4.47e-03	-1.48e-05	0.0	-9.21e-05
59	1	-0.15	0.03	-0.09	6.16e-05	-2.36e-04	-1.17e-04
59	5	-0.06	0.04	-0.11	-1.03e-04	1.10e-04	-1.29e-04
59	15	-0.09	0.12	0.05	-7.71e-05	-1.00e-04	-9.70e-05
59	17	-0.04	0.12	0.04	-8.78e-05	2.95e-05	-1.14e-04
59	19	-0.16	0.03	0.01	3.77e-05	-2.55e-04	-6.57e-05
59	39	-0.08	0.09	0.03	-3.67e-05	-6.92e-05	-9.41e-05
59	41	-0.06	0.09	0.02	-4.22e-05	-2.56e-06	-1.06e-04
59	42	-0.12	0.04	6.28e-03	1.30e-05	-1.49e-04	-7.54e-05
59	58	-0.11	0.02	-0.06	5.00e-05	-1.73e-04	-8.63e-05
59	61	-0.05	0.04	-0.06	-5.54e-05	5.24e-05	-9.55e-05
59	62	-0.10	0.03	-0.05	3.60e-05	-1.39e-04	-8.88e-05
59	64	-0.05	0.04	-0.06	-5.54e-05	5.24e-05	-9.55e-05

59	65	-0.07	0.05	4.23e-03	-5.75e-06	-3.74e-05	-9.62e-05
60	1	-0.10	0.05	-0.10	-1.83e-05	0.0	-8.79e-05
60	5	-0.07	0.05	-0.11	-4.73e-05	0.0	-1.25e-04
60	15	-0.08	0.10	0.04	-3.09e-04	0.0	-7.46e-05
60	17	-0.05	0.10	0.04	-3.22e-04	0.0	-8.91e-05
60	19	-0.11	0.04	-2.99e-03	-9.13e-05	0.0	-5.81e-05
60	39	-0.07	0.08	0.02	-2.43e-04	0.0	-7.60e-05
60	41	-0.05	0.08	0.02	-2.50e-04	0.0	-8.65e-05
60	42	-0.09	0.04	-2.16e-03	-1.21e-04	0.0	-6.49e-05
60	58	-0.08	0.04	-0.07	-1.50e-05	0.0	-6.53e-05
60	61	-0.06	0.04	-0.06	-6.73e-05	0.0	-9.03e-05
60	62	-0.07	0.04	-0.05	-5.11e-05	0.0	-6.95e-05
60	64	-0.06	0.04	-0.06	-6.73e-05	0.0	-9.03e-05
60	65	-0.06	0.05	2.48e-03	-1.60e-04	0.0	-8.22e-05
61	1	-0.08	0.05	-0.10	1.84e-04	-2.31e-04	-1.06e-04
61	5	-0.08	0.05	-0.11	1.75e-04	9.39e-05	-1.11e-04
61	14	-0.07	0.07	0.04	-2.12e-04	-9.57e-05	-7.26e-05
61	15	-0.07	0.07	0.04	-2.19e-04	-9.70e-05	-7.27e-05
61	19	-0.09	0.03	-2.64e-03	-1.62e-05	-2.50e-04	-7.25e-05
61	38	-0.06	0.06	0.02	-1.52e-04	-6.71e-05	-7.42e-05
61	39	-0.06	0.06	0.02	-1.54e-04	-6.75e-05	-7.42e-05
61	42	-0.07	0.03	-1.79e-03	-3.57e-05	-1.46e-04	-7.19e-05
61	58	-0.06	0.04	-0.07	1.32e-04	-1.70e-04	-7.89e-05
61	59	-0.06	0.04	-0.05	8.22e-05	-1.37e-04	-7.94e-05
61	61	-0.06	0.04	-0.06	7.70e-05	4.37e-05	-8.19e-05
61	62	-0.06	0.04	-0.05	8.22e-05	-1.37e-04	-7.94e-05
61	64	-0.06	0.04	-0.06	7.70e-05	4.37e-05	-8.19e-05
61	65	-0.06	0.04	2.86e-03	-6.74e-05	-3.70e-05	-8.09e-05
62	1	-0.12	0.04	-0.10	8.93e-05	0.0	-9.58e-05
62	5	-0.06	0.05	-0.11	3.33e-05	0.0	-1.41e-04
62	15	-0.09	0.12	0.04	-1.27e-04	0.0	-8.97e-05
62	17	-0.04	0.12	0.04	-1.42e-04	0.0	-1.06e-04
62	19	-0.14	0.04	-3.29e-03	3.73e-05	0.0	-6.21e-05
62	39	-0.08	0.09	0.02	-7.20e-05	0.0	-8.81e-05
62	41	-0.06	0.09	0.02	-7.97e-05	0.0	-9.98e-05
62	42	-0.10	0.05	-2.47e-03	6.41e-06	0.0	-7.12e-05
62	58	-0.09	0.03	-0.07	6.75e-05	0.0	-7.11e-05
62	61	-0.05	0.04	-0.06	1.40e-05	0.0	-1.01e-04
62	62	-0.09	0.04	-0.05	4.51e-05	0.0	-7.62e-05
62	64	-0.05	0.04	-0.06	1.40e-05	0.0	-1.01e-04
62	65	-0.07	0.06	2.17e-03	-2.22e-05	0.0	-9.14e-05
63	1	-0.15	0.04	-0.10	5.02e-05	-2.38e-04	-1.17e-04
63	5	-0.06	0.05	-0.11	-7.31e-05	1.12e-04	-1.30e-04
63	15	-0.09	0.13	0.04	-7.06e-05	-9.80e-05	-9.55e-05
63	17	-0.04	0.13	0.04	-8.33e-05	3.14e-05	-1.12e-04
63	19	-0.16	0.03	-3.53e-03	4.30e-05	-2.55e-04	-6.55e-05
63	39	-0.08	0.10	0.02	-3.18e-05	-6.79e-05	-9.31e-05
63	41	-0.06	0.10	0.02	-3.82e-05	-1.36e-06	-1.05e-04
63	42	-0.12	0.05	-2.72e-03	1.69e-05	-1.48e-04	-7.52e-05
63	58	-0.11	0.03	-0.07	4.18e-05	-1.75e-04	-8.64e-05
63	61	-0.05	0.04	-0.06	-3.79e-05	5.40e-05	-9.62e-05
63	62	-0.10	0.04	-0.05	3.06e-05	-1.41e-04	-8.88e-05
63	64	-0.05	0.04	-0.06	-3.79e-05	5.40e-05	-9.62e-05
63	65	-0.07	0.06	1.93e-03	-2.97e-06	-3.69e-05	-9.59e-05
64	1	-0.10	0.06	-0.12	-1.17e-05	0.0	-8.87e-05
64	5	-0.07	0.06	-0.10	-6.66e-05	0.0	-1.35e-04
64	10	-0.08	0.01	-0.04	4.39e-06	0.0	-7.76e-05
64	17	-0.05	0.11	0.04	-3.38e-04	0.0	-9.17e-05
64	19	-0.11	0.04	-0.03	-9.15e-05	0.0	-5.88e-05
64	34	-0.07	0.03	-0.02	-7.14e-05	0.0	-8.04e-05
64	41	-0.05	0.09	0.02	-2.62e-04	0.0	-8.89e-05
64	42	-0.09	0.05	-0.02	-1.25e-04	0.0	-6.65e-05
64	58	-0.08	0.04	-0.09	-1.02e-05	0.0	-6.57e-05
64	61	-0.06	0.05	-0.05	-7.99e-05	0.0	-9.65e-05
64	62	-0.07	0.05	-0.07	-4.94e-05	0.0	-7.05e-05
64	64	-0.06	0.05	-0.05	-7.99e-05	0.0	-9.65e-05
64	65	-0.06	0.06	-8.88e-04	-1.67e-04	0.0	-8.47e-05
65	1	-0.12	0.05	-0.12	7.00e-05	0.0	-9.32e-05
65	5	-0.06	0.06	-0.10	2.26e-05	0.0	-1.49e-04
65	10	-0.09	6.50e-03	-0.04	9.24e-05	0.0	-7.92e-05
65	17	-0.04	0.13	0.04	-1.57e-04	0.0	-1.07e-04
65	19	-0.14	0.04	-0.03	2.71e-05	0.0	-6.27e-05
65	34	-0.08	0.03	-0.02	2.77e-05	0.0	-8.51e-05
65	41	-0.05	0.10	0.02	-9.19e-05	0.0	-1.01e-04
65	42	-0.10	0.05	-0.02	-3.42e-06	0.0	-7.23e-05

65	58	-0.09	0.04	-0.09	5.34e-05	0.0	-6.90e-05
65	61	-0.05	0.05	-0.05	5.64e-06	0.0	-1.06e-04
65	62	-0.09	0.05	-0.07	3.20e-05	0.0	-7.50e-05
65	64	-0.05	0.05	-0.05	5.64e-06	0.0	-1.06e-04
65	65	-0.07	0.07	-1.20e-03	-3.21e-05	0.0	-9.29e-05
66	1	-0.15	0.05	-0.12	2.17e-05	-2.46e-04	-1.17e-04
66	5	-0.06	0.06	-0.10	-2.17e-05	1.06e-04	-1.32e-04
66	10	-0.10	-2.02e-03	-0.04	7.94e-05	-1.08e-04	-8.09e-05
66	17	-0.04	0.14	0.04	-7.76e-05	3.26e-05	-1.11e-04
66	19	-0.16	0.04	-0.03	5.00e-05	-2.56e-04	-6.57e-05
66	34	-0.09	0.03	-0.02	3.49e-05	-7.40e-05	-8.76e-05
66	41	-0.06	0.11	0.02	-3.31e-05	-1.07e-06	-1.05e-04
66	42	-0.12	0.05	-0.02	2.22e-05	-1.49e-04	-7.53e-05
66	58	-0.11	0.04	-0.09	2.08e-05	-1.82e-04	-8.67e-05
66	61	-0.05	0.05	-0.05	-8.27e-06	5.05e-05	-9.74e-05
66	62	-0.10	0.04	-0.07	1.58e-05	-1.46e-04	-8.91e-05
66	64	-0.05	0.05	-0.05	-8.27e-06	5.05e-05	-9.74e-05
66	65	-0.07	0.07	-1.43e-03	0.0	-3.75e-05	-9.62e-05
67	1	-0.10	0.06	-0.14	-4.02e-06	0.0	-9.23e-05
67	5	-0.07	0.07	-0.09	-8.78e-05	0.0	-1.35e-04
67	10	-0.08	0.02	-0.05	4.06e-06	0.0	-8.05e-05
67	17	-0.05	0.11	0.04	-3.54e-04	0.0	-9.30e-05
67	19	-0.11	0.05	-0.05	-9.24e-05	0.0	-6.21e-05
67	34	-0.07	0.04	-0.03	-7.53e-05	0.0	-8.30e-05
67	41	-0.05	0.09	0.02	-2.74e-04	0.0	-9.06e-05
67	42	-0.09	0.05	-0.03	-1.29e-04	0.0	-6.93e-05
67	58	-0.08	0.05	-0.10	-4.44e-06	0.0	-6.83e-05
67	61	-0.06	0.06	-0.05	-9.36e-05	0.0	-9.67e-05
67	62	-0.07	0.05	-0.08	-4.70e-05	0.0	-7.29e-05
67	64	-0.06	0.06	-0.05	-9.36e-05	0.0	-9.67e-05
67	65	-0.06	0.07	-4.29e-03	-1.75e-04	0.0	-8.68e-05
68	1	-0.08	0.07	-0.14	2.54e-04	-2.37e-04	-1.09e-04
68	5	-0.08	0.07	-0.09	1.31e-04	9.20e-05	-1.15e-04
68	10	-0.07	0.02	-0.05	1.17e-04	-1.08e-04	-8.45e-05
68	16	-0.05	0.09	0.04	-2.31e-04	3.33e-05	-8.28e-05
68	19	-0.09	0.04	-0.05	5.59e-05	-2.52e-04	-7.50e-05
68	34	-0.07	0.04	-0.03	3.99e-05	-7.45e-05	-8.35e-05
68	40	-0.05	0.07	0.02	-1.58e-04	-1.28e-06	-8.37e-05
68	42	-0.07	0.05	-0.03	5.09e-06	-1.48e-04	-7.45e-05
68	58	-0.06	0.05	-0.10	1.83e-04	-1.75e-04	-8.08e-05
68	61	-0.06	0.05	-0.05	5.46e-05	4.23e-05	-8.50e-05
68	62	-0.06	0.05	-0.08	1.23e-04	-1.40e-04	-8.15e-05
68	64	-0.06	0.05	-0.05	5.46e-05	4.23e-05	-8.50e-05
68	65	-0.06	0.05	-3.89e-03	-5.99e-05	-3.81e-05	-8.36e-05
69	1	-0.12	0.06	-0.14	5.74e-05	0.0	-9.40e-05
69	5	-0.06	0.08	-0.09	2.03e-05	0.0	-1.46e-04
69	10	-0.09	0.01	-0.05	8.91e-05	0.0	-8.19e-05
69	17	-0.04	0.14	0.04	-1.69e-04	0.0	-1.08e-04
69	19	-0.14	0.05	-0.05	1.84e-05	0.0	-6.57e-05
69	34	-0.08	0.04	-0.03	2.22e-05	0.0	-8.75e-05
69	41	-0.05	0.11	0.02	-1.02e-04	0.0	-1.02e-04
69	42	-0.10	0.06	-0.03	-1.15e-05	0.0	-7.48e-05
69	58	-0.09	0.05	-0.10	4.41e-05	0.0	-6.95e-05
69	61	-0.05	0.06	-0.05	2.41e-06	0.0	-1.05e-04
69	62	-0.09	0.05	-0.08	2.30e-05	0.0	-7.58e-05
69	64	-0.05	0.06	-0.05	2.41e-06	0.0	-1.05e-04
69	65	-0.07	0.08	-4.61e-03	-4.01e-05	0.0	-9.48e-05
70	1	-0.15	0.06	-0.14	-2.32e-05	-2.55e-04	-1.19e-04
70	5	-0.06	0.07	-0.09	1.78e-05	9.87e-05	-1.33e-04
70	10	-0.10	5.11e-03	-0.05	8.19e-05	-1.10e-04	-8.20e-05
70	17	-0.04	0.15	0.04	-7.18e-05	3.36e-05	-1.12e-04
70	19	-0.16	0.05	-0.05	5.85e-05	-2.57e-04	-6.61e-05
70	34	-0.09	0.04	-0.03	3.81e-05	-7.57e-05	-8.85e-05
70	41	-0.06	0.12	0.02	-2.80e-05	0.0	-1.05e-04
70	42	-0.12	0.06	-0.03	2.84e-05	-1.50e-04	-7.58e-05
70	58	-0.11	0.04	-0.10	-1.24e-05	-1.88e-04	-8.81e-05
70	61	-0.05	0.06	-0.05	1.47e-05	4.60e-05	-9.79e-05
70	62	-0.10	0.05	-0.08	-8.08e-06	-1.51e-04	-9.03e-05
70	64	-0.05	0.06	-0.05	1.47e-05	4.60e-05	-9.79e-05
70	65	-0.07	0.08	-4.84e-03	5.04e-06	-3.84e-05	-9.68e-05
71	1	-0.10	0.07	-0.16	0.0	0.0	-9.73e-05
71	5	-0.07	0.08	-0.08	-9.92e-05	0.0	-1.33e-04
71	17	-0.05	0.12	0.05	-3.63e-04	0.0	-9.31e-05
71	18	-0.11	0.05	-0.07	-9.20e-05	0.0	-6.56e-05
71	19	-0.11	0.05	-0.06	-9.32e-05	0.0	-6.54e-05



71	41	-0.05	0.10	0.02	-2.81e-04	0.0	-9.12e-05
71	42	-0.09	0.06	-0.04	-1.31e-04	0.0	-7.16e-05
71	58	-0.08	0.05	-0.11	-1.38e-06	0.0	-7.20e-05
71	61	-0.06	0.06	-0.05	-1.01e-04	0.0	-9.59e-05
71	62	-0.07	0.06	-0.09	-4.60e-05	0.0	-7.60e-05
71	64	-0.06	0.06	-0.05	-1.01e-04	0.0	-9.59e-05
71	65	-0.06	0.07	-6.36e-03	-1.80e-04	0.0	-8.80e-05
72	1	-0.08	0.08	-0.15	2.70e-04	-2.40e-04	-1.09e-04
72	3	-0.08	0.08	-0.12	1.91e-04	-7.89e-05	-1.15e-04
72	5	-0.08	0.08	-0.08	1.20e-04	9.02e-05	-1.15e-04
72	16	-0.05	0.09	0.04	-2.33e-04	3.34e-05	-8.29e-05
72	18	-0.09	0.05	-0.07	8.16e-05	-2.54e-04	-7.54e-05
72	19	-0.09	0.05	-0.06	7.53e-05	-2.55e-04	-7.54e-05
72	40	-0.05	0.08	0.02	-1.58e-04	-1.81e-06	-8.39e-05
72	42	-0.07	0.05	-0.04	1.58e-05	-1.50e-04	-7.48e-05
72	58	-0.06	0.06	-0.11	1.96e-04	-1.77e-04	-8.08e-05
72	60	-0.06	0.06	-0.07	8.81e-05	-5.29e-05	-8.48e-05
72	61	-0.06	0.06	-0.05	4.85e-05	4.10e-05	-8.50e-05
72	62	-0.06	0.06	-0.08	1.32e-04	-1.43e-04	-8.16e-05
72	63	-0.06	0.06	-0.07	8.81e-05	-5.29e-05	-8.48e-05
72	64	-0.06	0.06	-0.05	4.85e-05	4.10e-05	-8.50e-05
72	65	-0.06	0.06	-5.96e-03	-5.82e-05	-3.92e-05	-8.39e-05
73	1	-0.12	0.07	-0.16	5.31e-05	0.0	-9.85e-05
73	5	-0.06	0.08	-0.09	2.04e-05	0.0	-1.42e-04
73	17	-0.04	0.14	0.05	-1.77e-04	0.0	-1.08e-04
73	18	-0.14	0.05	-0.07	1.22e-05	0.0	-6.84e-05
73	19	-0.14	0.05	-0.06	1.43e-05	0.0	-6.81e-05
73	41	-0.05	0.12	0.02	-1.08e-04	0.0	-1.03e-04
73	42	-0.10	0.07	-0.04	-1.55e-05	0.0	-7.66e-05
73	58	-0.09	0.05	-0.11	4.09e-05	0.0	-7.28e-05
73	61	-0.05	0.07	-0.05	1.38e-06	0.0	-1.03e-04
73	62	-0.09	0.06	-0.09	1.96e-05	0.0	-7.86e-05
73	64	-0.05	0.07	-0.05	1.38e-06	0.0	-1.03e-04
73	65	-0.07	0.08	-6.68e-03	-4.43e-05	0.0	-9.60e-05
74	1	-0.15	0.06	-0.16	-5.39e-05	-2.56e-04	-1.19e-04
74	5	-0.06	0.08	-0.09	3.37e-05	9.65e-05	-1.33e-04
74	17	-0.04	0.15	0.05	-6.79e-05	3.44e-05	-1.12e-04
74	18	-0.16	0.05	-0.07	6.11e-05	-2.57e-04	-6.66e-05
74	19	-0.16	0.05	-0.06	6.52e-05	-2.58e-04	-6.64e-05
74	41	-0.06	0.12	0.02	-2.46e-05	0.0	-1.06e-04
74	42	-0.12	0.06	-0.04	3.32e-05	-1.51e-04	-7.62e-05
74	58	-0.11	0.05	-0.11	-3.53e-05	-1.89e-04	-8.84e-05
74	61	-0.05	0.07	-0.05	2.42e-05	4.47e-05	-9.81e-05
74	62	-0.10	0.06	-0.09	-2.45e-05	-1.51e-04	-9.06e-05
74	64	-0.05	0.07	-0.05	2.42e-05	4.47e-05	-9.81e-05
74	65	-0.07	0.08	-6.92e-03	8.02e-06	-3.84e-05	-9.73e-05
75	1	-0.05	0.09	-0.13	0.0	-1.86e-04	-1.49e-04
75	5	-9.68e-03	0.10	-0.02	0.0	1.99e-04	-1.33e-04
75	16	3.89e-03	0.13	0.02	0.0	1.65e-04	-8.97e-05
75	18	-0.07	0.06	-0.06	0.0	-2.62e-04	-8.17e-05
75	40	-4.99e-03	0.11	7.28e-03	0.0	1.09e-04	-9.16e-05
75	42	-0.05	0.07	-0.03	0.0	-1.20e-04	-8.17e-05
75	58	-0.04	0.07	-0.09	0.0	-1.35e-04	-1.10e-04
75	61	-9.11e-03	0.07	-9.55e-03	0.0	1.24e-04	-9.68e-05
75	62	-0.03	0.07	-0.07	0.0	-9.02e-05	-1.06e-04
75	64	-9.11e-03	0.07	-9.55e-03	0.0	1.24e-04	-9.68e-05
75	65	-0.02	0.08	-6.33e-03	0.0	4.50e-05	-9.26e-05
76	1	-0.03	0.10	-0.13	4.39e-05	-3.30e-04	-1.19e-04
76	17	-0.01	0.10	0.02	-2.30e-04	1.15e-04	-8.47e-05
76	18	-0.05	0.06	-0.06	-1.63e-05	-2.71e-04	-7.48e-05
76	23	-0.05	0.08	-0.05	-9.13e-05	-2.48e-04	-7.24e-05
76	41	-0.01	0.09	8.70e-03	-1.65e-04	6.30e-05	-8.54e-05
76	42	-0.04	0.06	-0.03	-5.23e-05	-1.46e-04	-7.50e-05
76	46	-0.04	0.07	-0.03	-9.17e-05	-1.35e-04	-7.32e-05
76	58	-0.02	0.07	-0.09	3.28e-05	-2.40e-04	-8.78e-05
76	62	-0.02	0.07	-0.07	1.36e-06	-1.80e-04	-8.71e-05
76	65	-0.02	0.07	-5.97e-03	-9.30e-05	2.46e-06	-8.51e-05
77	1	-0.07	0.09	-0.13	0.0	-2.66e-04	-1.60e-04
77	5	1.27e-03	0.10	-0.02	0.0	4.11e-05	-1.45e-04
77	16	0.01	0.15	0.02	0.0	1.99e-05	-1.09e-04
77	18	-0.10	0.06	-0.06	0.0	-3.46e-04	-8.06e-05
77	19	-0.10	0.06	-0.06	0.0	-3.50e-04	-8.03e-05
77	40	-1.56e-03	0.12	6.97e-03	0.0	-3.24e-05	-1.06e-04
77	42	-0.06	0.07	-0.03	0.0	-2.14e-04	-8.51e-05
77	58	-0.05	0.07	-0.09	0.0	-1.97e-04	-1.18e-04

77	61	-3.43e-03	0.08	-9.86e-03	0.0	1.52e-06	-1.06e-04
77	62	-0.04	0.07	-0.07	0.0	-1.69e-04	-1.14e-04
77	64	-3.43e-03	0.08	-9.86e-03	0.0	1.52e-06	-1.06e-04
77	65	-0.02	0.09	-6.64e-03	0.0	-8.43e-05	-1.02e-04
78	1	-0.09	0.08	-0.13	8.04e-05	-1.40e-04	-1.28e-04
78	5	5.12e-03	0.10	-0.02	-8.44e-06	6.77e-05	-1.35e-04
78	16	0.01	0.17	0.02	-2.31e-04	1.51e-05	-1.12e-04
78	18	-0.13	0.06	-0.06	-7.23e-06	-2.53e-04	-7.24e-05
78	19	-0.13	0.06	-0.06	-7.19e-06	-2.58e-04	-7.22e-05
78	40	-5.14e-03	0.14	6.71e-03	-1.63e-04	-2.59e-05	-1.07e-04
78	42	-0.08	0.08	-0.03	-4.55e-05	-1.56e-04	-8.00e-05
78	58	-0.07	0.06	-0.09	5.95e-05	-1.07e-04	-9.48e-05
78	61	-3.34e-03	0.08	-0.01	-2.68e-05	1.90e-05	-9.99e-05
78	62	-0.06	0.07	-0.07	2.25e-05	-9.61e-05	-9.59e-05
78	64	-3.34e-03	0.08	-0.01	-2.68e-05	1.90e-05	-9.99e-05
78	65	-0.03	0.10	-6.91e-03	-8.86e-05	-6.47e-05	-9.93e-05
79	1	-0.10	0.09	-0.20	1.22e-05	0.0	-9.92e-05
79	5	-0.07	0.10	-0.07	-1.25e-04	0.0	-1.27e-04
79	17	-0.05	0.14	0.05	-3.98e-04	0.0	-9.84e-05
79	18	-0.11	0.06	-0.11	-9.30e-05	0.0	-7.10e-05
79	19	-0.11	0.06	-0.11	-9.42e-05	0.0	-7.11e-05
79	41	-0.05	0.12	0.02	-3.08e-04	0.0	-9.67e-05
79	42	-0.09	0.07	-0.06	-1.40e-04	0.0	-7.63e-05
79	58	-0.08	0.06	-0.14	7.83e-06	0.0	-7.36e-05
79	61	-0.06	0.08	-0.04	-1.19e-04	0.0	-9.39e-05
79	62	-0.07	0.07	-0.11	-4.33e-05	0.0	-7.83e-05
79	64	-0.06	0.08	-0.04	-1.19e-04	0.0	-9.39e-05
79	65	-0.06	0.09	-0.01	-1.97e-04	0.0	-9.24e-05
80	1	-0.12	0.08	-0.20	3.03e-05	0.0	-1.08e-04
80	5	-0.06	0.11	-0.07	1.32e-05	0.0	-1.41e-04
80	17	-0.04	0.16	0.05	-2.03e-04	0.0	-1.21e-04
80	18	-0.14	0.07	-0.11	3.80e-06	0.0	-7.71e-05
80	19	-0.14	0.07	-0.11	6.05e-06	0.0	-7.71e-05
80	41	-0.05	0.14	0.02	-1.28e-04	0.0	-1.15e-04
80	42	-0.10	0.08	-0.06	-2.59e-05	0.0	-8.51e-05
80	58	-0.09	0.06	-0.14	2.43e-05	0.0	-7.96e-05
80	61	-0.05	0.08	-0.04	-5.76e-06	0.0	-1.05e-04
80	62	-0.09	0.07	-0.11	3.74e-06	0.0	-8.59e-05
80	64	-0.05	0.08	-0.04	-5.76e-06	0.0	-1.05e-04
80	65	-0.07	0.10	-0.01	-5.79e-05	0.0	-1.05e-04
81	1	-0.15	0.09	-0.20	-1.01e-04	-2.40e-04	-1.18e-04
81	5	-0.06	0.10	-0.07	7.46e-05	9.61e-05	-1.33e-04
81	16	-0.04	0.17	0.05	-4.45e-05	3.82e-05	-1.19e-04
81	18	-0.16	0.06	-0.11	1.01e-04	-2.60e-04	-6.71e-05
81	19	-0.16	0.06	-0.11	1.05e-04	-2.61e-04	-6.70e-05
81	40	-0.05	0.14	0.02	0.0	1.91e-06	-1.10e-04
81	42	-0.12	0.08	-0.06	6.41e-05	-1.51e-04	-7.76e-05
81	58	-0.11	0.06	-0.15	-7.12e-05	-1.77e-04	-8.71e-05
81	61	-0.05	0.08	-0.04	5.17e-05	4.47e-05	-9.90e-05
81	62	-0.10	0.07	-0.11	-4.59e-05	-1.42e-04	-9.03e-05
81	64	-0.05	0.08	-0.04	5.17e-05	4.47e-05	-9.90e-05
81	65	-0.07	0.10	-0.01	2.99e-05	-3.71e-05	-1.00e-04
82	1	-0.04	0.03	-0.02	-9.65e-06	-2.97e-04	-6.70e-05
82	5	-0.01	0.03	-0.09	-7.42e-06	5.56e-05	-7.07e-05
82	14	-0.03	0.08	-0.03	-6.59e-06	-1.19e-04	-5.48e-05
82	19	-0.08	0.02	0.02	-8.97e-06	-3.65e-04	-3.79e-05
82	24	0.04	0.04	-0.05	-2.17e-06	2.35e-04	-6.97e-05
82	38	-0.03	0.06	-0.02	-6.17e-06	-9.30e-05	-5.19e-05
82	42	-0.05	0.03	-2.54e-04	-7.45e-06	-2.19e-04	-4.08e-05
82	48	0.01	0.04	-0.04	-3.69e-06	8.98e-05	-6.69e-05
82	58	-0.03	0.02	-0.01	-7.19e-06	-2.19e-04	-4.95e-05
82	61	-0.01	0.03	-0.05	-5.54e-06	1.51e-05	-5.26e-05
82	62	-0.03	0.02	-0.01	-6.78e-06	-1.81e-04	-5.05e-05
82	64	-0.01	0.03	-0.05	-5.54e-06	1.51e-05	-5.26e-05
82	65	-0.02	0.03	-0.02	-5.57e-06	-6.50e-05	-5.38e-05
83	1	-0.02	0.03	-0.02	6.02e-05	-2.02e-04	-1.11e-04
83	5	-0.02	0.03	-0.09	1.84e-05	1.60e-04	-1.08e-04
83	15	-0.02	0.06	-0.02	-1.77e-04	-3.63e-05	-8.09e-05
83	22	-0.05	0.04	5.79e-03	-8.07e-05	-2.18e-04	-7.24e-05
83	24	0.02	0.03	-0.05	-1.25e-04	2.27e-04	-9.36e-05
83	39	-0.02	0.04	-0.02	-1.25e-04	-2.32e-05	-7.94e-05
83	46	-0.03	0.03	-5.08e-03	-7.50e-05	-1.18e-04	-7.21e-05
83	48	4.64e-03	0.03	-0.04	-9.74e-05	1.12e-04	-9.28e-05
83	58	-0.01	0.02	-0.01	4.46e-05	-1.50e-04	-8.21e-05
83	61	-0.01	0.03	-0.05	-6.72e-06	8.66e-05	-8.08e-05

83	62	-0.01	0.02	-0.01	1.65e-05	-1.15e-04	-8.22e-05
83	64	-0.01	0.03	-0.05	-6.72e-06	8.66e-05	-8.08e-05
83	65	-0.01	0.03	-0.02	-6.80e-05	-1.02e-05	-8.24e-05
84	1	-0.06	0.02	-0.02	8.77e-06	-1.73e-04	-6.15e-05
84	5	2.90e-04	0.03	-0.09	9.87e-06	1.71e-04	-7.12e-05
84	17	9.65e-03	0.09	-0.04	7.24e-06	1.43e-04	-6.44e-05
84	19	-0.10	0.02	0.02	4.81e-06	-2.69e-04	-2.55e-05
84	24	0.06	0.05	-0.06	9.33e-06	3.21e-04	-8.31e-05
84	39	-0.03	0.07	-0.02	6.32e-06	-1.53e-06	-4.81e-05
84	42	-0.07	0.03	-5.10e-04	5.78e-06	-1.26e-04	-3.41e-05
84	48	0.03	0.05	-0.04	8.35e-06	1.79e-04	-7.46e-05
84	58	-0.05	0.02	-0.01	6.51e-06	-1.27e-04	-4.54e-05
84	61	-4.81e-03	0.03	-0.06	7.26e-06	1.02e-04	-5.30e-05
84	62	-0.04	0.02	-0.01	6.65e-06	-8.89e-05	-4.76e-05
84	64	-4.81e-03	0.03	-0.06	7.26e-06	1.02e-04	-5.30e-05
84	65	-0.02	0.04	-0.02	7.07e-06	2.61e-05	-5.43e-05
85	1	-0.08	0.02	-0.02	6.36e-05	-1.14e-04	-1.14e-04
85	5	0.02	0.03	-0.10	4.00e-05	1.90e-04	-1.26e-04
85	17	0.02	0.11	-0.04	-1.90e-04	1.47e-04	-1.02e-04
85	19	-0.12	0.02	0.02	-1.36e-05	-1.70e-04	-6.43e-05
85	24	0.09	0.07	-0.06	-1.22e-04	2.66e-04	-1.19e-04
85	39	-0.03	0.08	-0.02	-1.26e-04	3.58e-05	-8.58e-05
85	42	-0.07	0.03	-6.41e-04	-3.95e-05	-6.41e-05	-7.21e-05
85	48	0.04	0.05	-0.04	-9.59e-05	1.61e-04	-1.12e-04
85	58	-0.06	0.01	-0.01	4.69e-05	-8.43e-05	-8.43e-05
85	61	5.85e-03	0.03	-0.06	5.17e-06	1.19e-04	-9.26e-05
85	62	-0.05	0.02	-0.01	1.83e-05	-5.00e-05	-8.62e-05
85	64	5.85e-03	0.03	-0.06	5.17e-06	1.19e-04	-9.26e-05
85	65	-0.02	0.04	-0.02	-6.78e-05	4.81e-05	-9.19e-05
86	1	-0.04	0.03	-0.02	0.0	-3.23e-04	-8.06e-05
86	5	-4.83e-03	0.03	-0.09	0.0	3.70e-05	-8.17e-05
86	15	-0.03	0.08	-0.04	0.0	-1.38e-04	-6.12e-05
86	19	-0.07	0.02	0.02	0.0	-3.89e-04	-4.53e-05
86	24	0.04	0.04	-0.06	0.0	2.27e-04	-8.23e-05
86	39	-0.02	0.06	-0.03	0.0	-1.11e-04	-6.01e-05
86	42	-0.05	0.03	-3.01e-03	0.0	-2.40e-04	-4.93e-05
86	48	0.02	0.04	-0.04	0.0	7.88e-05	-7.83e-05
86	58	-0.03	0.02	-9.61e-03	0.0	-2.39e-04	-5.96e-05
86	61	-6.25e-03	0.03	-0.06	0.0	0.0	-6.13e-05
86	62	-0.02	0.02	-0.01	0.0	-1.99e-04	-6.07e-05
86	64	-6.25e-03	0.03	-0.06	0.0	0.0	-6.13e-05
86	65	-0.01	0.03	-0.02	0.0	-8.07e-05	-6.38e-05
87	1	-0.01	0.03	-0.02	5.92e-05	-2.36e-04	-1.06e-04
87	5	-0.01	0.03	-0.09	2.31e-05	1.26e-04	-1.03e-04
87	14	-0.02	0.06	-0.04	-1.80e-04	-4.75e-05	-7.39e-05
87	22	-0.04	0.04	5.70e-05	-8.29e-05	-2.36e-04	-6.54e-05
87	24	0.02	0.03	-0.06	-1.26e-04	2.06e-04	-9.14e-05
87	38	-0.01	0.04	-0.03	-1.28e-04	-4.00e-05	-7.39e-05
87	46	-0.03	0.03	-0.01	-7.68e-05	-1.38e-04	-6.66e-05
87	48	0.01	0.03	-0.04	-9.87e-05	9.13e-05	-8.99e-05
87	58	-8.27e-03	0.02	-9.27e-03	4.38e-05	-1.74e-04	-7.84e-05
87	61	-8.02e-03	0.03	-0.05	-4.49e-06	6.24e-05	-7.70e-05
87	62	-8.23e-03	0.02	-0.01	1.56e-05	-1.39e-04	-7.84e-05
87	64	-8.02e-03	0.03	-0.05	-4.49e-06	6.24e-05	-7.70e-05
87	65	-8.11e-03	0.03	-0.02	-6.92e-05	-3.15e-05	-7.86e-05
88	1	-0.06	0.02	-0.02	0.0	-1.44e-04	-8.63e-05
88	5	5.89e-03	0.03	-0.09	0.0	1.99e-04	-9.21e-05
88	17	0.01	0.09	-0.05	0.0	1.65e-04	-8.13e-05
88	19	-0.10	0.02	0.02	0.0	-2.50e-04	-4.71e-05
88	24	0.07	0.05	-0.06	0.0	3.48e-04	-9.43e-05
88	39	-0.03	0.07	-0.03	0.0	1.92e-05	-6.67e-05
88	42	-0.06	0.03	-3.31e-03	0.0	-1.06e-04	-5.33e-05
88	48	0.03	0.05	-0.04	0.0	2.04e-04	-8.82e-05
88	58	-0.04	0.02	-9.88e-03	0.0	-1.06e-04	-6.38e-05
88	61	-6.21e-04	0.03	-0.06	0.0	1.24e-04	-6.87e-05
88	62	-0.04	0.02	-0.01	0.0	-6.73e-05	-6.55e-05
88	64	-6.21e-04	0.03	-0.06	0.0	1.24e-04	-6.87e-05
88	65	-0.02	0.04	-0.02	0.0	4.87e-05	-7.07e-05
89	1	-0.07	0.02	-0.02	6.33e-05	-7.62e-05	-1.16e-04
89	5	0.03	0.03	-0.09	2.96e-05	2.39e-04	-1.26e-04
89	17	0.03	0.11	-0.06	-1.92e-04	1.75e-04	-1.04e-04
89	19	-0.12	0.02	0.02	-1.00e-05	-1.41e-04	-6.75e-05
89	24	0.10	0.07	-0.06	-1.24e-04	2.90e-04	-1.18e-04
89	39	-0.02	0.08	-0.03	-1.26e-04	6.38e-05	-8.86e-05
89	42	-0.07	0.03	-3.49e-03	-3.73e-05	-3.66e-05	-7.44e-05

89	48	0.05	0.05	-0.04	-9.65e-05	1.86e-04	-1.11e-04
89	58	-0.05	0.01	-0.01	4.68e-05	-5.48e-05	-8.55e-05
89	61	0.01	0.03	-0.06	0.0	1.53e-04	-9.31e-05
89	62	-0.04	0.02	-0.01	1.84e-05	-2.25e-05	-8.73e-05
89	64	0.01	0.03	-0.06	0.0	1.53e-04	-9.31e-05
89	65	-9.51e-03	0.04	-0.02	-6.69e-05	7.45e-05	-9.29e-05
90	1	-0.03	0.03	-0.01	0.0	-3.34e-04	-9.90e-05
90	5	1.50e-03	0.03	-0.09	0.0	3.05e-05	-9.85e-05
90	15	-0.02	0.08	-0.05	0.0	-1.42e-04	-7.30e-05
90	16	0.01	0.08	-0.07	0.0	4.09e-05	-8.29e-05
90	19	-0.07	0.02	0.02	0.0	-3.99e-04	-5.95e-05
90	39	-0.02	0.06	-0.04	0.0	-1.15e-04	-7.22e-05
90	40	1.70e-03	0.06	-0.05	0.0	-2.02e-05	-8.04e-05
90	42	-0.04	0.03	-5.79e-03	0.0	-2.48e-04	-6.29e-05
90	58	-0.02	0.02	-6.41e-03	0.0	-2.47e-04	-7.33e-05
90	61	-1.50e-03	0.03	-0.06	0.0	-4.14e-06	-7.38e-05
90	62	-0.02	0.02	-0.01	0.0	-2.07e-04	-7.41e-05
90	64	-1.50e-03	0.03	-0.06	0.0	-4.14e-06	-7.38e-05
90	65	-9.41e-03	0.03	-0.03	0.0	-8.57e-05	-7.64e-05
91	1	-3.37e-03	0.03	-0.01	5.95e-05	-2.53e-04	-1.08e-04
91	5	-3.23e-03	0.03	-0.09	2.46e-05	1.09e-04	-1.05e-04
91	14	-0.01	0.06	-0.05	-1.81e-04	-5.55e-05	-7.48e-05
91	22	-0.04	0.04	-5.81e-03	-8.36e-05	-2.47e-04	-6.66e-05
91	24	0.03	0.03	-0.07	-1.25e-04	1.97e-04	-9.30e-05
91	38	-9.37e-03	0.04	-0.04	-1.28e-04	-4.92e-05	-7.51e-05
91	40	2.89e-03	0.04	-0.05	-1.35e-04	1.99e-05	-8.21e-05
91	46	-0.02	0.03	-0.02	-7.71e-05	-1.49e-04	-6.80e-05
91	58	-2.50e-03	0.02	-6.06e-03	4.40e-05	-1.88e-04	-8.03e-05
91	61	-2.39e-03	0.03	-0.05	-3.65e-06	4.99e-05	-7.84e-05
91	62	-2.46e-03	0.02	-0.01	1.57e-05	-1.51e-04	-8.03e-05
91	64	-2.39e-03	0.03	-0.05	-3.65e-06	4.99e-05	-7.84e-05
91	65	-2.36e-03	0.03	-0.03	-6.90e-05	-4.21e-05	-8.02e-05
92	1	-0.05	0.02	-0.01	0.0	-1.26e-04	-1.04e-04
92	5	0.01	0.03	-0.09	0.0	2.23e-04	-1.10e-04
92	16	0.02	0.09	-0.07	0.0	1.84e-04	-9.43e-05
92	17	0.02	0.09	-0.07	0.0	1.82e-04	-9.42e-05
92	19	-0.10	0.02	0.02	0.0	-2.39e-04	-6.05e-05
92	39	-0.02	0.07	-0.04	0.0	3.42e-05	-7.97e-05
92	40	6.56e-03	0.07	-0.05	0.0	1.26e-04	-8.98e-05
92	42	-0.06	0.03	-6.09e-03	0.0	-9.29e-05	-6.65e-05
92	58	-0.04	0.02	-6.68e-03	0.0	-9.20e-05	-7.72e-05
92	61	4.71e-03	0.03	-0.06	0.0	1.40e-04	-8.20e-05
92	62	-0.03	0.02	-0.01	0.0	-5.30e-05	-7.88e-05
92	64	4.71e-03	0.03	-0.06	0.0	1.40e-04	-8.20e-05
92	65	-0.01	0.04	-0.03	0.0	6.40e-05	-8.35e-05
93	1	-0.06	0.02	-0.01	6.06e-05	-5.89e-05	-1.19e-04
93	5	0.04	0.03	-0.09	2.40e-05	2.59e-04	-1.29e-04
93	16	0.04	0.11	-0.07	-1.94e-04	1.88e-04	-1.07e-04
93	17	0.04	0.11	-0.07	-1.94e-04	1.86e-04	-1.07e-04
93	19	-0.11	0.02	0.02	-1.11e-05	-1.27e-04	-7.04e-05
93	39	-0.02	0.08	-0.04	-1.28e-04	7.63e-05	-9.11e-05
93	40	0.02	0.08	-0.05	-1.34e-04	1.39e-04	-1.02e-04
93	42	-0.06	0.03	-6.27e-03	-3.86e-05	-2.29e-05	-7.71e-05
93	58	-0.04	0.01	-6.85e-03	4.49e-05	-4.19e-05	-8.77e-05
93	61	0.02	0.03	-0.06	-3.76e-06	1.67e-04	-9.52e-05
93	62	-0.03	0.02	-0.01	1.66e-05	-9.63e-06	-8.96e-05
93	64	0.02	0.03	-0.06	-3.76e-06	1.67e-04	-9.52e-05
93	65	-2.67e-03	0.04	-0.03	-6.83e-05	8.73e-05	-9.52e-05
94	1	-0.02	0.03	-7.65e-03	0.0	-3.35e-04	-1.08e-04
94	5	8.81e-03	0.03	-0.09	0.0	3.36e-05	-1.08e-04
94	15	-0.02	0.08	-0.06	0.0	-1.39e-04	-7.86e-05
94	16	0.02	0.08	-0.09	0.0	4.67e-05	-8.85e-05
94	19	-0.06	0.02	0.02	0.0	-4.03e-04	-6.60e-05
94	39	-0.01	0.06	-0.05	0.0	-1.13e-04	-7.81e-05
94	40	7.63e-03	0.06	-0.06	0.0	-1.63e-05	-8.62e-05
94	42	-0.04	0.03	-8.61e-03	0.0	-2.49e-04	-6.92e-05
94	58	-0.02	0.02	-3.25e-03	0.0	-2.48e-04	-7.99e-05
94	61	3.98e-03	0.03	-0.06	0.0	-1.99e-06	-8.04e-05
94	62	-0.01	0.02	-0.01	0.0	-2.07e-04	-8.06e-05
94	64	3.98e-03	0.03	-0.06	0.0	-1.99e-06	-8.04e-05
94	65	-3.75e-03	0.03	-0.03	0.0	-8.39e-05	-8.26e-05
95	3	4.49e-03	0.03	-0.04	3.76e-05	-1.05e-04	-1.08e-04
95	5	4.34e-03	0.03	-0.09	2.26e-05	1.00e-04	-1.06e-04
95	14	-8.51e-03	0.06	-0.07	-1.83e-04	-5.73e-05	-7.53e-05
95	16	0.01	0.06	-0.09	-1.95e-04	7.64e-05	-8.31e-05

95	20	0.04	0.01	-0.06	-5.36e-05	1.63e-04	-9.48e-05
95	38	-4.00e-03	0.04	-0.05	-1.29e-04	-5.20e-05	-7.57e-05
95	40	8.76e-03	0.04	-0.06	-1.35e-04	1.74e-05	-8.27e-05
95	44	0.02	0.02	-0.04	-6.08e-05	6.19e-05	-9.33e-05
95	60	3.35e-03	0.03	-0.03	3.46e-06	-6.98e-05	-8.05e-05
95	61	3.26e-03	0.03	-0.06	-4.87e-06	4.42e-05	-7.94e-05
95	63	3.35e-03	0.03	-0.03	3.46e-06	-6.98e-05	-8.05e-05
95	64	3.26e-03	0.03	-0.06	-4.87e-06	4.42e-05	-7.94e-05
95	65	3.40e-03	0.03	-0.03	-6.96e-05	-4.59e-05	-8.11e-05
96	1	-0.05	0.02	-8.02e-03	0.0	-1.16e-04	-1.13e-04
96	5	0.02	0.03	-0.09	0.0	2.38e-04	-1.20e-04
96	16	0.03	0.09	-0.09	0.0	1.95e-04	-1.00e-04
96	17	0.03	0.09	-0.08	0.0	1.94e-04	-1.00e-04
96	19	-0.09	0.02	0.02	0.0	-2.33e-04	-6.78e-05
96	39	-0.02	0.07	-0.05	0.0	4.36e-05	-8.60e-05
96	40	0.01	0.07	-0.06	0.0	1.37e-04	-9.58e-05
96	42	-0.05	0.03	-8.91e-03	0.0	-8.59e-05	-7.34e-05
96	58	-0.03	0.02	-3.52e-03	0.0	-8.47e-05	-8.40e-05
96	61	0.01	0.03	-0.06	0.0	1.51e-04	-8.90e-05
96	62	-0.03	0.02	-0.01	0.0	-4.52e-05	-8.54e-05
96	64	0.01	0.03	-0.06	0.0	1.51e-04	-8.90e-05
96	65	-4.24e-03	0.04	-0.03	0.0	7.32e-05	-8.98e-05
97	2	-0.05	1.98e-03	6.46e-03	8.38e-05	-8.23e-05	-8.61e-05
97	5	0.05	0.03	-0.09	2.28e-05	2.66e-04	-1.30e-04
97	16	0.05	0.11	-0.09	-1.95e-04	1.91e-04	-1.08e-04
97	17	0.05	0.11	-0.08	-1.96e-04	1.90e-04	-1.08e-04
97	24	0.12	0.07	-0.08	-1.25e-04	3.06e-04	-1.21e-04
97	39	-9.57e-03	0.08	-0.05	-1.29e-04	8.10e-05	-9.23e-05
97	40	0.03	0.08	-0.06	-1.35e-04	1.44e-04	-1.03e-04
97	48	0.07	0.06	-0.06	-9.82e-05	2.03e-04	-1.14e-04
97	58	-0.04	0.01	-3.70e-03	4.42e-05	-3.69e-05	-8.87e-05
97	61	0.03	0.03	-0.06	-4.56e-06	1.72e-04	-9.64e-05
97	62	-0.03	0.02	-0.01	1.59e-05	-4.54e-06	-9.06e-05
97	64	0.03	0.03	-0.06	-4.56e-06	1.72e-04	-9.64e-05
97	65	4.22e-03	0.04	-0.03	-6.89e-05	9.26e-05	-9.62e-05
98	2	-0.02	0.02	0.01	0.0	-3.05e-04	-7.98e-05
98	5	0.02	0.03	-0.09	0.0	4.04e-05	-1.10e-04
98	15	-0.01	0.08	-0.07	0.0	-1.34e-04	-7.91e-05
98	16	0.02	0.08	-0.10	0.0	5.46e-05	-8.92e-05
98	24	0.06	0.04	-0.09	0.0	2.43e-04	-1.00e-04
98	39	-7.27e-03	0.06	-0.06	0.0	-1.08e-04	-7.88e-05
98	40	0.01	0.06	-0.07	0.0	-1.03e-05	-8.71e-05
98	48	0.04	0.04	-0.06	0.0	8.82e-05	-9.71e-05
98	58	-0.01	0.02	-1.37e-04	0.0	-2.47e-04	-8.08e-05
98	61	9.74e-03	0.03	-0.06	0.0	2.72e-06	-8.18e-05
98	64	9.74e-03	0.03	-0.06	0.0	2.72e-06	-8.18e-05
98	65	2.16e-03	0.03	-0.04	0.0	-8.01e-05	-8.36e-05
99	1	0.01	0.03	-2.96e-03	5.94e-05	-2.67e-04	-1.09e-04
99	5	0.01	0.03	-0.09	2.23e-05	9.57e-05	-1.05e-04
99	14	-3.22e-03	0.06	-0.08	-1.84e-04	-5.60e-05	-7.35e-05
99	16	0.02	0.06	-0.10	-1.96e-04	7.84e-05	-8.20e-05
99	20	0.05	0.01	-0.06	-5.26e-05	1.62e-04	-9.56e-05
99	38	1.35e-03	0.04	-0.06	-1.29e-04	-5.19e-05	-7.44e-05
99	40	0.01	0.04	-0.07	-1.35e-04	1.79e-05	-8.18e-05
99	44	0.03	0.02	-0.05	-5.99e-05	6.09e-05	-9.35e-05
99	59	9.11e-03	0.02	-9.01e-03	1.58e-05	-1.60e-04	-8.05e-05
99	61	8.90e-03	0.03	-0.06	-4.86e-06	4.15e-05	-7.85e-05
99	62	9.11e-03	0.02	-9.01e-03	1.58e-05	-1.60e-04	-8.05e-05
99	64	8.90e-03	0.03	-0.06	-4.86e-06	4.15e-05	-7.85e-05
99	65	9.16e-03	0.03	-0.04	-6.89e-05	-4.71e-05	-8.05e-05
100	2	-0.04	9.63e-03	0.01	0.0	-1.36e-04	-8.26e-05
100	5	0.03	0.03	-0.09	0.0	2.51e-04	-1.21e-04
100	16	0.04	0.09	-0.10	0.0	2.06e-04	-1.00e-04
100	17	0.04	0.09	-0.10	0.0	2.04e-04	-1.00e-04
100	24	0.09	0.05	-0.09	0.0	3.91e-04	-1.12e-04
100	39	-9.91e-03	0.07	-0.06	0.0	5.14e-05	-8.66e-05
100	40	0.02	0.07	-0.07	0.0	1.46e-04	-9.62e-05
100	48	0.05	0.05	-0.06	0.0	2.43e-04	-1.07e-04
100	58	-0.03	0.02	-3.94e-04	0.0	-7.95e-05	-8.47e-05
100	61	0.02	0.03	-0.06	0.0	1.60e-04	-8.99e-05
100	62	-0.02	0.02	-9.65e-03	0.0	-3.95e-05	-8.61e-05
100	64	0.02	0.03	-0.06	0.0	1.60e-04	-8.99e-05
100	65	2.20e-03	0.04	-0.04	0.0	8.07e-05	-9.05e-05
101	5	0.05	0.03	-0.09	2.08e-05	2.70e-04	-1.30e-04
101	16	0.05	0.11	-0.10	-1.98e-04	1.94e-04	-1.08e-04

101	17	0.05	0.11	-0.10	-1.98e-04	1.93e-04	-1.07e-04
101	24	0.13	0.07	-0.09	-1.27e-04	3.09e-04	-1.19e-04
101	39	-2.95e-03	0.08	-0.06	-1.31e-04	8.38e-05	-9.24e-05
101	40	0.03	0.08	-0.07	-1.37e-04	1.47e-04	-1.03e-04
101	48	0.07	0.06	-0.06	-9.98e-05	2.06e-04	-1.13e-04
101	61	0.03	0.03	-0.06	-6.05e-06	1.75e-04	-9.62e-05
101	64	0.03	0.03	-0.06	-6.05e-06	1.75e-04	-9.62e-05
101	65	0.01	0.04	-0.04	-7.04e-05	9.57e-05	-9.60e-05
102	5	0.02	0.03	-0.09	0.0	4.48e-05	-1.04e-04
102	15	-7.86e-03	0.08	-0.09	0.0	-1.30e-04	-7.57e-05
102	16	0.03	0.08	-0.11	0.0	6.00e-05	-8.46e-05
102	24	0.07	0.04	-0.10	0.0	2.49e-04	-9.39e-05
102	39	-1.79e-03	0.06	-0.07	0.0	-1.05e-04	-7.48e-05
102	40	0.02	0.06	-0.08	0.0	-6.44e-06	-8.24e-05
102	48	0.04	0.04	-0.07	0.0	9.27e-05	-9.15e-05
102	61	0.02	0.03	-0.06	0.0	5.65e-06	-7.76e-05
102	64	0.02	0.03	-0.06	0.0	5.65e-06	-7.76e-05
102	65	7.96e-03	0.03	-0.04	0.0	-7.79e-05	-7.90e-05
103	5	0.04	0.03	-0.09	0.0	2.61e-04	-1.13e-04
103	16	0.04	0.09	-0.11	0.0	2.14e-04	-9.51e-05
103	17	0.04	0.09	-0.11	0.0	2.13e-04	-9.49e-05
103	24	0.10	0.05	-0.10	0.0	4.01e-04	-1.09e-04
103	39	-3.97e-03	0.07	-0.07	0.0	5.78e-05	-7.98e-05
103	40	0.03	0.07	-0.08	0.0	1.53e-04	-9.04e-05
103	48	0.06	0.05	-0.07	0.0	2.51e-04	-1.02e-04
103	61	0.02	0.03	-0.06	0.0	1.67e-04	-8.38e-05
103	64	0.02	0.03	-0.06	0.0	1.67e-04	-8.38e-05
103	65	8.44e-03	0.04	-0.04	0.0	8.69e-05	-8.42e-05
104	5	0.06	0.03	-0.09	2.52e-05	2.75e-04	-1.31e-04
104	16	0.06	0.11	-0.11	-1.94e-04	1.98e-04	-1.10e-04
104	17	0.06	0.11	-0.11	-1.94e-04	1.96e-04	-1.09e-04
104	24	0.14	0.07	-0.10	-1.20e-04	3.12e-04	-1.24e-04
104	39	3.69e-03	0.08	-0.07	-1.29e-04	8.76e-05	-9.25e-05
104	40	0.04	0.08	-0.08	-1.34e-04	1.50e-04	-1.04e-04
104	48	0.08	0.06	-0.07	-9.44e-05	2.09e-04	-1.16e-04
104	61	0.04	0.03	-0.06	-2.86e-06	1.79e-04	-9.68e-05
104	64	0.04	0.03	-0.06	-2.86e-06	1.79e-04	-9.68e-05
104	65	0.02	0.04	-0.04	-6.72e-05	9.94e-05	-9.66e-05
105	1	-0.03	0.06	-0.05	0.0	-2.14e-04	-1.13e-04
105	3	-0.02	0.06	-0.05	3.31e-06	-5.79e-05	-1.19e-04
105	5	-3.46e-03	0.06	-0.05	4.69e-06	1.21e-04	-1.24e-04
105	14	-0.03	0.09	-0.02	3.33e-06	-7.17e-05	-8.46e-05
105	17	6.43e-03	0.10	-0.01	4.05e-06	1.11e-04	-9.54e-05
105	19	-0.07	0.04	-7.94e-03	1.03e-06	-3.34e-04	-7.11e-05
105	38	-0.02	0.08	-0.01	2.93e-06	-4.39e-05	-8.45e-05
105	41	-1.84e-03	0.08	-0.01	3.37e-06	5.11e-05	-9.31e-05
105	42	-0.04	0.04	-9.83e-03	1.71e-06	-1.78e-04	-7.52e-05
105	58	-0.02	0.04	-0.03	0.0	-1.58e-04	-8.38e-05
105	61	-4.84e-03	0.05	-0.03	3.24e-06	6.42e-05	-9.13e-05
105	62	-0.02	0.04	-0.03	1.14e-06	-1.22e-04	-8.53e-05
105	63	-0.01	0.05	-0.03	2.48e-06	-3.54e-05	-8.85e-05
105	64	-4.84e-03	0.05	-0.03	3.24e-06	6.42e-05	-9.13e-05
105	65	-0.01	0.05	-8.49e-03	2.61e-06	-1.40e-05	-8.95e-05
106	1	-0.02	0.06	-0.05	4.43e-05	-1.09e-04	-1.11e-04
106	3	-0.02	0.06	-0.05	2.50e-05	1.98e-05	-1.10e-04
106	14	-0.02	0.08	-0.02	-1.94e-04	1.32e-05	-7.64e-05
106	17	-3.19e-03	0.08	-0.01	-2.08e-04	9.66e-05	-8.41e-05
106	23	-0.04	0.05	-0.01	-9.46e-05	-1.10e-04	-6.88e-05
106	38	-0.02	0.06	-0.01	-1.41e-04	1.95e-05	-7.69e-05
106	41	-7.05e-03	0.06	-1.00e-02	-1.48e-04	6.24e-05	-8.39e-05
106	46	-0.03	0.05	-0.01	-8.89e-05	-4.22e-05	-7.02e-05
106	58	-0.01	0.04	-0.03	3.29e-05	-8.09e-05	-8.22e-05
106	60	-0.01	0.04	-0.03	-6.64e-06	1.72e-05	-8.20e-05
106	62	-0.01	0.04	-0.03	4.06e-06	-5.43e-05	-8.23e-05
106	63	-0.01	0.04	-0.03	-6.64e-06	1.72e-05	-8.20e-05
106	65	-0.01	0.04	-7.88e-03	-8.26e-05	2.56e-05	-8.25e-05
107	1	-0.05	0.05	-0.05	1.47e-06	-2.59e-04	-1.16e-04
107	3	-0.02	0.06	-0.05	2.10e-06	-8.28e-05	-1.29e-04
107	5	7.22e-03	0.06	-0.05	1.85e-06	1.14e-04	-1.37e-04
107	14	-0.03	0.11	-0.02	2.06e-06	-8.81e-05	-9.48e-05
107	17	0.02	0.12	-0.01	2.56e-06	1.00e-04	-1.07e-04
107	19	-0.10	0.04	-8.57e-03	0.0	-3.55e-04	-7.46e-05
107	38	-0.02	0.09	-0.01	1.75e-06	-5.91e-05	-9.33e-05
107	41	2.29e-03	0.09	-0.01	2.07e-06	3.90e-05	-1.03e-04
107	42	-0.06	0.05	-0.01	0.0	-1.97e-04	-8.05e-05

107	58	-0.04	0.04	-0.03	1.08e-06	-1.90e-04	-8.61e-05
107	61	6.47e-04	0.05	-0.03	1.40e-06	5.71e-05	-1.01e-04
107	62	-0.03	0.04	-0.03	1.19e-06	-1.50e-04	-8.89e-05
107	63	-0.02	0.05	-0.03	1.54e-06	-5.20e-05	-9.61e-05
107	64	6.47e-04	0.05	-0.03	1.40e-06	5.71e-05	-1.01e-04
107	65	-0.01	0.06	-9.11e-03	1.51e-06	-2.75e-05	-9.72e-05
108	1	-0.08	0.05	-0.05	6.62e-05	-2.44e-04	-1.21e-04
108	3	-0.03	0.05	-0.05	5.27e-05	-5.30e-05	-1.30e-04
108	5	0.02	0.06	-0.05	1.68e-05	1.37e-04	-1.33e-04
108	14	-0.04	0.13	-0.02	-1.88e-04	-3.37e-05	-9.53e-05
108	17	0.02	0.14	-0.01	-2.03e-04	7.02e-05	-1.10e-04
108	19	-0.12	0.04	-9.08e-03	-1.56e-05	-1.94e-04	-7.16e-05
108	38	-0.03	0.10	-0.01	-1.35e-04	-2.32e-05	-9.36e-05
108	41	5.50e-03	0.11	-0.01	-1.43e-04	3.15e-05	-1.05e-04
108	42	-0.07	0.05	-0.01	-4.41e-05	-1.07e-04	-7.89e-05
108	58	-0.06	0.03	-0.03	4.89e-05	-1.78e-04	-8.97e-05
108	61	6.61e-03	0.05	-0.03	-9.72e-06	7.48e-05	-9.83e-05
108	62	-0.05	0.04	-0.03	1.77e-05	-1.36e-04	-9.17e-05
108	63	-0.02	0.05	-0.03	1.02e-05	-3.06e-05	-9.65e-05
108	64	6.61e-03	0.05	-0.03	-9.72e-06	7.48e-05	-9.83e-05
108	65	-0.02	0.07	-9.56e-03	-7.57e-05	-1.13e-05	-9.75e-05
109	1	-0.02	0.06	-0.04	0.0	-2.12e-04	-1.14e-04
109	3	-9.76e-03	0.06	-0.05	0.0	-4.92e-05	-1.19e-04
109	5	5.32e-03	0.06	-0.05	0.0	1.34e-04	-1.22e-04
109	14	-0.02	0.10	-0.03	0.0	-6.28e-05	-8.53e-05
109	17	0.01	0.10	-0.03	0.0	1.22e-04	-9.53e-05
109	19	-0.06	0.04	-9.34e-03	0.0	-3.31e-04	-7.23e-05
109	38	-0.01	0.08	-0.02	0.0	-3.61e-05	-8.48e-05
109	41	4.80e-03	0.08	-0.02	0.0	6.00e-05	-9.31e-05
109	42	-0.04	0.04	-0.01	0.0	-1.74e-04	-7.59e-05
109	58	-0.02	0.04	-0.03	0.0	-1.57e-04	-8.43e-05
109	61	1.63e-03	0.05	-0.03	0.0	7.28e-05	-9.02e-05
109	62	-0.01	0.04	-0.03	0.0	-1.19e-04	-8.56e-05
109	63	-6.75e-03	0.05	-0.03	0.0	-2.88e-05	-8.82e-05
109	64	1.63e-03	0.05	-0.03	0.0	7.28e-05	-9.02e-05
109	65	-5.31e-03	0.05	-0.01	0.0	-7.05e-06	-8.95e-05
110	1	-8.72e-03	0.06	-0.04	4.88e-05	-1.05e-04	-1.11e-04
110	3	-8.53e-03	0.06	-0.05	2.63e-05	2.61e-05	-1.10e-04
110	14	-0.02	0.08	-0.03	-1.96e-04	1.85e-05	-7.67e-05
110	17	2.74e-03	0.08	-0.03	-2.11e-04	1.05e-04	-8.44e-05
110	23	-0.04	0.05	-0.02	-9.29e-05	-1.10e-04	-6.89e-05
110	38	-0.01	0.06	-0.02	-1.41e-04	2.48e-05	-7.71e-05
110	41	-1.13e-03	0.06	-0.02	-1.49e-04	6.92e-05	-8.40e-05
110	46	-0.03	0.05	-0.02	-8.72e-05	-3.93e-05	-7.03e-05
110	58	-6.46e-03	0.04	-0.03	3.62e-05	-7.84e-05	-8.24e-05
110	60	-6.32e-03	0.04	-0.03	-5.63e-06	2.20e-05	-8.17e-05
110	62	-6.42e-03	0.04	-0.03	6.87e-06	-5.11e-05	-8.24e-05
110	63	-6.32e-03	0.04	-0.03	-5.63e-06	2.20e-05	-8.17e-05
110	65	-6.32e-03	0.04	-0.01	-8.10e-05	3.08e-05	-8.24e-05
111	1	-0.05	0.05	-0.05	0.0	-2.56e-04	-1.17e-04
111	3	-0.02	0.06	-0.05	0.0	-7.54e-05	-1.29e-04
111	5	0.02	0.06	-0.05	0.0	1.23e-04	-1.35e-04
111	14	-0.03	0.11	-0.03	0.0	-8.12e-05	-9.49e-05
111	17	0.02	0.12	-0.03	0.0	1.08e-04	-1.08e-04
111	19	-0.09	0.04	-9.83e-03	0.0	-3.53e-04	-7.45e-05
111	38	-0.02	0.09	-0.02	0.0	-5.31e-05	-9.34e-05
111	41	9.68e-03	0.09	-0.02	0.0	4.60e-05	-1.03e-04
111	42	-0.05	0.05	-0.01	0.0	-1.93e-04	-8.04e-05
111	58	-0.03	0.04	-0.03	0.0	-1.88e-04	-8.68e-05
111	61	7.83e-03	0.05	-0.03	0.0	6.35e-05	-9.94e-05
111	62	-0.03	0.04	-0.03	0.0	-1.47e-04	-8.94e-05
111	63	-0.01	0.05	-0.03	0.0	-4.66e-05	-9.58e-05
111	64	7.83e-03	0.05	-0.03	0.0	6.35e-05	-9.94e-05
111	65	-6.71e-03	0.06	-0.01	0.0	-2.21e-05	-9.73e-05
112	1	-0.07	0.05	-0.05	5.66e-05	-2.38e-04	-1.21e-04
112	3	-0.02	0.05	-0.05	3.44e-05	-6.14e-05	-1.30e-04
112	5	0.03	0.06	-0.05	5.61e-06	1.17e-04	-1.33e-04
112	14	-0.03	0.13	-0.03	-1.96e-04	-4.24e-05	-9.49e-05
112	17	0.03	0.14	-0.03	-2.12e-04	6.27e-05	-1.09e-04
112	19	-0.12	0.04	-0.01	-1.71e-05	-2.03e-04	-7.19e-05
112	38	-0.02	0.10	-0.02	-1.41e-04	-3.10e-05	-9.34e-05
112	41	0.01	0.11	-0.02	-1.49e-04	2.42e-05	-1.04e-04
112	42	-0.07	0.05	-0.01	-4.68e-05	-1.15e-04	-7.89e-05
112	58	-0.05	0.03	-0.03	4.19e-05	-1.74e-04	-8.95e-05
112	61	0.01	0.05	-0.03	-1.69e-05	6.20e-05	-9.81e-05

112	62	-0.04	0.04	-0.03	1.15e-05	-1.35e-04	-9.15e-05
112	63	-0.01	0.05	-0.03	0.0	-3.70e-05	-9.64e-05
112	64	0.01	0.05	-0.03	-1.69e-05	6.20e-05	-9.81e-05
112	65	-8.61e-03	0.07	-0.02	-7.98e-05	-1.83e-05	-9.74e-05
113	2	-0.02	0.04	-0.03	0.0	-2.09e-04	-8.24e-05
113	3	-1.38e-03	0.06	-0.05	0.0	-3.93e-05	-1.17e-04
113	5	0.01	0.06	-0.05	0.0	1.48e-04	-1.18e-04
113	16	0.02	0.10	-0.05	0.0	1.36e-04	-9.42e-05
113	17	0.02	0.10	-0.04	0.0	1.34e-04	-9.41e-05
113	24	0.06	0.07	-0.03	0.0	3.30e-04	-1.05e-04
113	40	0.01	0.08	-0.03	0.0	7.05e-05	-9.20e-05
113	41	0.01	0.08	-0.03	0.0	6.98e-05	-9.20e-05
113	48	0.03	0.06	-0.02	0.0	1.71e-04	-1.02e-04
113	58	-0.01	0.04	-0.03	0.0	-1.55e-04	-8.40e-05
113	60	-5.12e-04	0.05	-0.03	0.0	-2.15e-05	-8.69e-05
113	61	7.97e-03	0.05	-0.03	0.0	8.24e-05	-8.79e-05
113	62	-8.30e-03	0.04	-0.03	0.0	-1.16e-04	-8.51e-05
113	63	-5.12e-04	0.05	-0.03	0.0	-2.15e-05	-8.69e-05
113	64	7.97e-03	0.05	-0.03	0.0	8.24e-05	-8.79e-05
113	65	1.03e-03	0.05	-0.02	0.0	0.0	-8.85e-05
114	1	-8.14e-04	0.06	-0.04	5.03e-05	-1.05e-04	-1.11e-04
114	3	-7.68e-04	0.06	-0.05	2.71e-05	2.86e-05	-1.09e-04
114	16	8.68e-03	0.08	-0.04	-2.11e-04	1.13e-04	-8.43e-05
114	17	8.68e-03	0.08	-0.04	-2.11e-04	1.10e-04	-8.43e-05
114	23	-0.04	0.05	-0.02	-9.19e-05	-1.08e-04	-6.84e-05
114	40	4.79e-03	0.06	-0.03	-1.49e-04	7.45e-05	-8.38e-05
114	41	4.79e-03	0.06	-0.03	-1.49e-04	7.37e-05	-8.38e-05
114	46	-0.02	0.05	-0.02	-8.63e-05	-3.68e-05	-6.99e-05
114	58	-6.04e-04	0.04	-0.03	3.73e-05	-7.78e-05	-8.23e-05
114	60	-5.54e-04	0.04	-0.03	-4.97e-06	2.41e-05	-8.13e-05
114	62	-5.80e-04	0.04	-0.02	7.93e-06	-4.99e-05	-8.22e-05
114	63	-5.54e-04	0.04	-0.03	-4.97e-06	2.41e-05	-8.13e-05
114	65	-5.08e-04	0.04	-0.02	-8.02e-05	3.41e-05	-8.21e-05
115	1	-0.04	0.05	-0.04	0.0	-2.53e-04	-1.18e-04
115	3	-6.45e-03	0.06	-0.05	0.0	-6.90e-05	-1.27e-04
115	5	0.03	0.06	-0.05	0.0	1.30e-04	-1.32e-04
115	16	0.03	0.12	-0.05	0.0	1.18e-04	-1.07e-04
115	17	0.03	0.12	-0.04	0.0	1.16e-04	-1.07e-04
115	24	0.09	0.08	-0.03	0.0	3.17e-04	-1.19e-04
115	40	0.02	0.09	-0.03	0.0	5.29e-05	-1.02e-04
115	41	0.02	0.09	-0.03	0.0	5.24e-05	-1.02e-04
115	48	0.05	0.07	-0.02	0.0	1.57e-04	-1.13e-04
115	58	-0.03	0.04	-0.03	0.0	-1.86e-04	-8.70e-05
115	60	-3.48e-03	0.05	-0.03	0.0	-4.18e-05	-9.47e-05
115	61	0.01	0.05	-0.03	0.0	6.85e-05	-9.71e-05
115	62	-0.02	0.04	-0.03	0.0	-1.44e-04	-8.94e-05
115	63	-3.48e-03	0.05	-0.03	0.0	-4.18e-05	-9.47e-05
115	64	0.01	0.05	-0.03	0.0	6.85e-05	-9.71e-05
115	65	2.27e-04	0.06	-0.02	0.0	-1.73e-05	-9.64e-05
116	1	-0.06	0.05	-0.04	5.29e-05	-2.36e-04	-1.21e-04
116	3	-0.01	0.05	-0.05	2.85e-05	-6.64e-05	-1.29e-04
116	5	0.04	0.06	-0.05	1.98e-06	1.06e-04	-1.32e-04
116	16	0.04	0.14	-0.05	-2.14e-04	5.65e-05	-1.09e-04
116	17	0.04	0.14	-0.04	-2.14e-04	5.62e-05	-1.09e-04
116	19	-0.11	0.04	-0.01	-1.76e-05	-2.09e-04	-7.22e-05
116	40	0.02	0.11	-0.03	-1.51e-04	1.83e-05	-1.04e-04
116	41	0.02	0.11	-0.03	-1.51e-04	1.82e-05	-1.04e-04
116	42	-0.06	0.05	-0.02	-4.77e-05	-1.21e-04	-7.90e-05
116	58	-0.04	0.03	-0.03	3.92e-05	-1.72e-04	-8.93e-05
116	60	-7.35e-03	0.05	-0.03	-4.38e-06	-4.11e-05	-9.61e-05
116	61	0.02	0.05	-0.03	-1.91e-05	5.46e-05	-9.77e-05
116	62	-0.03	0.04	-0.03	9.17e-06	-1.35e-04	-9.12e-05
116	63	-7.35e-03	0.05	-0.03	-4.38e-06	-4.11e-05	-9.61e-05
116	64	0.02	0.05	-0.03	-1.91e-05	5.46e-05	-9.77e-05
116	65	-1.70e-03	0.07	-0.02	-8.10e-05	-2.39e-05	-9.71e-05
117	3	6.86e-03	0.06	-0.05	0.0	-2.98e-05	-1.15e-04
117	5	0.02	0.06	-0.05	0.0	1.60e-04	-1.16e-04
117	16	0.03	0.10	-0.06	0.0	1.48e-04	-9.29e-05
117	17	0.03	0.10	-0.06	0.0	1.45e-04	-9.28e-05
117	24	0.07	0.07	-0.04	0.0	3.42e-04	-1.04e-04
117	40	0.02	0.08	-0.04	0.0	8.02e-05	-9.08e-05
117	41	0.02	0.08	-0.04	0.0	7.94e-05	-9.08e-05
117	48	0.04	0.06	-0.03	0.0	1.81e-04	-1.01e-04
117	60	5.63e-03	0.05	-0.03	0.0	-1.43e-05	-8.59e-05
117	61	0.01	0.05	-0.03	0.0	9.12e-05	-8.61e-05



117	63	5.63e-03	0.05	-0.03	0.0	-1.43e-05	-8.59e-05
117	64	0.01	0.05	-0.03	0.0	9.12e-05	-8.61e-05
117	65	7.29e-03	0.05	-0.03	0.0	8.18e-06	-8.74e-05
118	1	7.09e-03	0.06	-0.04	5.01e-05	-1.05e-04	-1.11e-04
118	3	6.98e-03	0.06	-0.05	2.56e-05	2.90e-05	-1.09e-04
118	16	0.01	0.08	-0.06	-2.12e-04	1.17e-04	-8.38e-05
118	20	0.04	0.03	-0.02	-6.89e-05	1.78e-04	-9.51e-05
118	40	0.01	0.06	-0.04	-1.50e-04	7.72e-05	-8.34e-05
118	44	0.03	0.04	-0.02	-7.45e-05	1.08e-04	-9.39e-05
118	59	5.26e-03	0.04	-0.02	7.68e-06	-4.97e-05	-8.23e-05
118	60	5.20e-03	0.04	-0.03	-5.90e-06	2.48e-05	-8.12e-05
118	62	5.26e-03	0.04	-0.02	7.68e-06	-4.97e-05	-8.23e-05
118	63	5.20e-03	0.04	-0.03	-5.90e-06	2.48e-05	-8.12e-05
118	65	5.29e-03	0.04	-0.03	-8.06e-05	3.59e-05	-8.19e-05
119	3	2.58e-03	0.06	-0.05	0.0	-6.21e-05	-1.26e-04
119	5	0.04	0.06	-0.05	0.0	1.37e-04	-1.29e-04
119	16	0.04	0.12	-0.06	0.0	1.26e-04	-1.06e-04
119	17	0.04	0.12	-0.06	0.0	1.24e-04	-1.05e-04
119	24	0.10	0.08	-0.04	0.0	3.26e-04	-1.17e-04
119	40	0.02	0.09	-0.04	0.0	5.95e-05	-1.01e-04
119	41	0.02	0.09	-0.04	0.0	5.90e-05	-1.01e-04
119	48	0.06	0.07	-0.03	0.0	1.64e-04	-1.12e-04
119	60	3.25e-03	0.05	-0.03	0.0	-3.68e-05	-9.38e-05
119	61	0.02	0.05	-0.03	0.0	7.41e-05	-9.53e-05
119	63	3.25e-03	0.05	-0.03	0.0	-3.68e-05	-9.38e-05
119	64	0.02	0.05	-0.03	0.0	7.41e-05	-9.53e-05
119	65	7.09e-03	0.06	-0.03	0.0	-1.23e-05	-9.54e-05
120	2	-0.05	0.02	-0.03	7.98e-05	-2.22e-04	-8.63e-05
120	3	-3.54e-03	0.05	-0.05	2.58e-05	-6.98e-05	-1.29e-04
120	5	0.05	0.06	-0.05	0.0	9.96e-05	-1.32e-04
120	16	0.05	0.14	-0.06	-2.16e-04	5.11e-05	-1.09e-04
120	17	0.05	0.14	-0.06	-2.16e-04	5.09e-05	-1.09e-04
120	24	0.12	0.09	-0.04	-1.46e-04	1.56e-04	-1.22e-04
120	40	0.03	0.11	-0.04	-1.52e-04	1.34e-05	-1.04e-04
120	41	0.03	0.11	-0.04	-1.52e-04	1.34e-05	-1.04e-04
120	48	0.07	0.08	-0.03	-1.15e-04	6.85e-05	-1.15e-04
120	58	-0.04	0.03	-0.03	3.80e-05	-1.72e-04	-8.91e-05
120	60	-5.06e-04	0.05	-0.03	-6.05e-06	-4.41e-05	-9.60e-05
120	61	0.03	0.05	-0.03	-2.00e-05	5.00e-05	-9.75e-05
120	63	-5.06e-04	0.05	-0.03	-6.05e-06	-4.41e-05	-9.60e-05
120	64	0.03	0.05	-0.03	-2.00e-05	5.00e-05	-9.75e-05
120	65	5.22e-03	0.07	-0.03	-8.17e-05	-2.82e-05	-9.71e-05
121	5	0.03	0.06	-0.05	0.0	1.72e-04	-1.15e-04
121	16	0.03	0.10	-0.08	0.0	1.59e-04	-9.27e-05
121	17	0.03	0.10	-0.07	0.0	1.57e-04	-9.26e-05
121	24	0.07	0.07	-0.05	0.0	3.55e-04	-1.04e-04
121	40	0.02	0.08	-0.05	0.0	8.98e-05	-9.07e-05
121	41	0.02	0.08	-0.05	0.0	8.90e-05	-9.07e-05
121	48	0.05	0.06	-0.04	0.0	1.92e-04	-1.01e-04
121	61	0.02	0.05	-0.03	0.0	9.96e-05	-8.60e-05
121	64	0.02	0.05	-0.03	0.0	9.96e-05	-8.60e-05
121	65	0.01	0.05	-0.03	0.0	1.56e-05	-8.75e-05
122	1	0.01	0.06	-0.03	4.95e-05	-1.05e-04	-1.11e-04
122	3	0.01	0.06	-0.04	2.36e-05	2.94e-05	-1.09e-04
122	5	0.01	0.06	-0.05	0.0	1.71e-04	-1.08e-04
122	16	0.02	0.08	-0.08	-2.15e-04	1.19e-04	-8.38e-05
122	20	0.05	0.03	-0.02	-6.95e-05	1.79e-04	-9.68e-05
122	40	0.02	0.06	-0.05	-1.51e-04	7.94e-05	-8.34e-05
122	44	0.03	0.04	-0.03	-7.52e-05	1.09e-04	-9.47e-05
122	58	0.01	0.04	-0.02	3.66e-05	-7.78e-05	-8.20e-05
122	60	0.01	0.04	-0.03	-7.19e-06	2.55e-05	-8.11e-05
122	61	0.01	0.04	-0.03	-2.03e-05	1.04e-04	-8.04e-05
122	62	0.01	0.04	-0.02	7.17e-06	-4.89e-05	-8.19e-05
122	63	0.01	0.04	-0.03	-7.19e-06	2.55e-05	-8.11e-05
122	64	0.01	0.04	-0.03	-2.03e-05	1.04e-04	-8.04e-05
122	65	0.01	0.04	-0.03	-8.13e-05	3.76e-05	-8.17e-05
123	5	0.05	0.06	-0.05	0.0	1.47e-04	-1.28e-04
123	16	0.05	0.12	-0.08	0.0	1.35e-04	-1.05e-04
123	17	0.05	0.12	-0.07	0.0	1.33e-04	-1.05e-04
123	24	0.10	0.08	-0.05	0.0	3.37e-04	-1.16e-04
123	40	0.03	0.09	-0.06	0.0	6.70e-05	-1.01e-04
123	41	0.03	0.09	-0.05	0.0	6.64e-05	-1.01e-04
123	48	0.06	0.07	-0.04	0.0	1.73e-04	-1.11e-04
123	61	0.03	0.05	-0.03	0.0	8.06e-05	-9.46e-05
123	64	0.03	0.05	-0.03	0.0	8.06e-05	-9.46e-05

123	65	0.01	0.06	-0.03	0.0	-6.84e-06	-9.50e-05
124	5	0.06	0.06	-0.05	0.0	9.45e-05	-1.31e-04
124	16	0.06	0.14	-0.08	-2.18e-04	4.61e-05	-1.08e-04
124	17	0.06	0.14	-0.07	-2.18e-04	4.59e-05	-1.08e-04
124	24	0.13	0.09	-0.05	-1.47e-04	1.52e-04	-1.20e-04
124	40	0.04	0.11	-0.06	-1.54e-04	9.11e-06	-1.03e-04
124	41	0.04	0.11	-0.05	-1.54e-04	9.05e-06	-1.03e-04
124	48	0.08	0.08	-0.04	-1.17e-04	6.43e-05	-1.14e-04
124	61	0.03	0.05	-0.03	-2.07e-05	4.63e-05	-9.72e-05
124	64	0.03	0.05	-0.03	-2.07e-05	4.63e-05	-9.72e-05
124	65	0.01	0.07	-0.03	-8.26e-05	-3.18e-05	-9.69e-05
125	5	0.04	0.06	-0.05	0.0	1.81e-04	-1.16e-04
125	16	0.04	0.10	-0.09	0.0	1.69e-04	-9.21e-05
125	24	0.08	0.07	-0.06	0.0	3.66e-04	-9.94e-05
125	40	0.03	0.08	-0.07	0.0	9.77e-05	-9.11e-05
125	48	0.05	0.06	-0.05	0.0	2.00e-04	-9.89e-05
125	61	0.03	0.05	-0.03	0.0	1.06e-04	-8.68e-05
125	64	0.03	0.05	-0.03	0.0	1.06e-04	-8.68e-05
125	65	0.02	0.05	-0.04	0.0	2.14e-05	-8.89e-05
126	5	0.05	0.06	-0.05	0.0	1.54e-04	-1.30e-04
126	16	0.05	0.12	-0.09	0.0	1.43e-04	-1.08e-04
126	17	0.05	0.12	-0.09	0.0	1.41e-04	-1.08e-04
126	24	0.11	0.08	-0.06	0.0	3.46e-04	-1.22e-04
126	40	0.04	0.09	-0.07	0.0	7.28e-05	-1.03e-04
126	41	0.04	0.09	-0.07	0.0	7.23e-05	-1.03e-04
126	48	0.07	0.07	-0.05	0.0	1.80e-04	-1.15e-04
126	61	0.04	0.05	-0.03	0.0	8.57e-05	-9.60e-05
126	64	0.04	0.05	-0.03	0.0	8.57e-05	-9.60e-05
126	65	0.02	0.06	-0.04	0.0	-2.79e-06	-9.62e-05
127	5	0.07	0.06	-0.05	3.35e-06	9.05e-05	-1.34e-04
127	16	0.06	0.14	-0.09	-2.16e-04	4.22e-05	-1.13e-04
127	17	0.06	0.14	-0.09	-2.17e-04	4.20e-05	-1.13e-04
127	24	0.14	0.10	-0.06	-1.46e-04	1.47e-04	-1.29e-04
127	40	0.04	0.11	-0.07	-1.52e-04	5.74e-06	-1.06e-04
127	41	0.04	0.11	-0.07	-1.52e-04	5.69e-06	-1.06e-04
127	48	0.08	0.08	-0.05	-1.15e-04	6.09e-05	-1.19e-04
127	61	0.04	0.05	-0.03	-1.84e-05	4.34e-05	-9.89e-05
127	64	0.04	0.05	-0.03	-1.84e-05	4.34e-05	-9.89e-05
127	65	0.02	0.07	-0.04	-8.08e-05	-3.46e-05	-9.82e-05
128	1	-0.03	0.09	-0.12	-1.83e-03	-1.50e-04	-1.35e-04
128	5	4.66e-03	0.10	-0.02	-9.55e-04	2.23e-04	-1.20e-04
128	16	0.01	0.13	-8.45e-03	-6.96e-04	1.86e-04	-8.38e-05
128	18	-0.07	0.06	-0.06	-1.51e-04	-2.59e-04	-7.37e-05
128	22	-0.06	0.09	-0.06	-2.20e-04	-2.38e-04	-7.04e-05
128	40	4.96e-03	0.11	-0.01	-5.96e-04	1.26e-04	-8.51e-05
128	42	-0.04	0.07	-0.04	-2.87e-04	-1.12e-04	-7.45e-05
128	46	-0.04	0.08	-0.04	-3.19e-04	-1.01e-04	-7.21e-05
128	58	-0.02	0.07	-0.09	-1.35e-03	-1.09e-04	-1.00e-04
128	61	1.36e-03	0.07	-0.01	-6.47e-04	1.40e-04	-8.81e-05
128	62	-0.02	0.07	-0.07	-1.13e-03	-6.70e-05	-9.65e-05
128	64	1.36e-03	0.07	-0.01	-6.47e-04	1.40e-04	-8.81e-05
128	65	-5.78e-03	0.08	-0.02	-4.86e-04	5.82e-05	-8.54e-05
129	1	-0.01	0.10	-0.12	5.31e-05	-2.94e-04	-1.15e-04
129	17	-4.77e-04	0.10	-4.45e-03	-2.36e-04	9.65e-05	-8.34e-05
129	22	-0.04	0.08	-0.06	-9.49e-05	-2.51e-04	-6.98e-05
129	23	-0.04	0.08	-0.06	-9.47e-05	-2.48e-04	-6.97e-05
129	41	-4.43e-03	0.09	-0.01	-1.69e-04	5.26e-05	-8.37e-05
129	46	-0.03	0.07	-0.04	-9.41e-05	-1.36e-04	-7.08e-05
129	58	-9.78e-03	0.07	-0.09	3.95e-05	-2.14e-04	-8.50e-05
129	62	-9.75e-03	0.07	-0.07	5.96e-06	-1.60e-04	-8.44e-05
129	65	-9.67e-03	0.07	-0.02	-9.46e-05	1.42e-06	-8.27e-05
130	1	-0.05	0.09	-0.12	1.16e-03	-2.74e-04	-1.44e-04
130	5	0.02	0.10	-0.02	-3.17e-04	4.77e-05	-1.32e-04
130	16	0.02	0.15	-8.78e-03	-1.36e-03	4.32e-05	-9.93e-05
130	19	-0.09	0.06	-0.06	1.73e-04	-3.56e-04	-7.28e-05
130	22	-0.09	0.09	-0.06	-2.26e-04	-3.30e-04	-7.29e-05
130	40	9.93e-03	0.12	-0.01	-9.70e-04	-1.64e-05	-9.69e-05
130	42	-0.05	0.07	-0.04	-1.60e-04	-2.14e-04	-7.75e-05
130	46	-0.05	0.09	-0.04	-3.66e-04	-2.03e-04	-7.68e-05
130	58	-0.04	0.07	-0.09	8.62e-04	-2.03e-04	-1.07e-04
130	61	8.05e-03	0.08	-0.01	-3.12e-04	7.17e-06	-9.63e-05
130	62	-0.03	0.07	-0.07	5.11e-04	-1.72e-04	-1.03e-04
130	64	8.05e-03	0.08	-0.01	-3.12e-04	7.17e-06	-9.63e-05
130	65	-6.70e-03	0.09	-0.02	-5.42e-04	-7.63e-05	-9.32e-05
131	1	-0.07	0.08	-0.12	6.25e-05	-2.15e-04	-1.24e-04

131	5	0.02	0.10	-0.02	-2.15e-05	4.85e-05	-1.33e-04
131	16	0.03	0.17	-9.00e-03	-2.40e-04	1.08e-05	-1.10e-04
131	19	-0.12	0.06	-0.06	-1.73e-05	-2.62e-04	-7.14e-05
131	22	-0.12	0.10	-0.06	-9.68e-05	-2.45e-04	-7.45e-05
131	40	6.87e-03	0.14	-0.01	-1.72e-04	-3.03e-05	-1.05e-04
131	42	-0.07	0.08	-0.04	-5.45e-05	-1.60e-04	-7.88e-05
131	46	-0.07	0.10	-0.04	-9.59e-05	-1.53e-04	-7.97e-05
131	58	-0.06	0.06	-0.09	4.65e-05	-1.62e-04	-9.18e-05
131	61	7.86e-03	0.08	-0.01	-3.59e-05	7.36e-06	-9.82e-05
131	62	-0.05	0.07	-0.07	1.08e-05	-1.39e-04	-9.33e-05
131	64	7.86e-03	0.08	-0.01	-3.59e-05	7.36e-06	-9.82e-05
131	65	-0.01	0.10	-0.02	-9.65e-05	-6.93e-05	-9.75e-05
132	1	-0.02	0.09	-0.12	0.0	-1.40e-04	-1.27e-04
132	5	0.01	0.10	-0.02	0.0	2.32e-04	-1.16e-04
132	16	0.02	0.13	-0.03	0.0	1.94e-04	-8.26e-05
132	22	-0.06	0.09	-0.07	0.0	-2.37e-04	-6.80e-05
132	25	0.06	0.10	0.02	0.0	3.85e-04	-9.57e-05
132	40	0.01	0.11	-0.02	0.0	1.33e-04	-8.35e-05
132	46	-0.03	0.08	-0.05	0.0	-9.84e-05	-7.00e-05
132	48	0.03	0.09	-5.15e-03	0.0	2.36e-04	-9.45e-05
132	58	-0.02	0.07	-0.09	0.0	-1.01e-04	-9.42e-05
132	61	7.51e-03	0.07	-0.02	0.0	1.46e-04	-8.52e-05
132	62	-0.01	0.07	-0.07	0.0	-6.02e-05	-9.15e-05
132	64	7.51e-03	0.07	-0.02	0.0	1.46e-04	-8.52e-05
132	65	1.94e-04	0.08	-0.02	0.0	6.30e-05	-8.33e-05
133	1	-5.18e-03	0.10	-0.12	5.17e-05	-2.80e-04	-1.14e-04
133	3	-5.23e-03	0.09	-0.06	4.41e-06	-5.25e-05	-1.11e-04
133	16	5.50e-03	0.10	-0.03	-2.38e-04	8.03e-05	-8.33e-05
133	22	-0.04	0.08	-0.07	-9.62e-05	-2.54e-04	-6.88e-05
133	23	-0.04	0.08	-0.07	-9.60e-05	-2.51e-04	-6.87e-05
133	40	1.53e-03	0.09	-0.02	-1.70e-04	4.30e-05	-8.33e-05
133	46	-0.02	0.07	-0.05	-9.50e-05	-1.40e-04	-7.00e-05
133	58	-3.83e-03	0.07	-0.09	3.85e-05	-2.03e-04	-8.42e-05
133	60	-3.86e-03	0.07	-0.04	-2.12e-05	-2.66e-05	-8.21e-05
133	62	-3.83e-03	0.07	-0.07	5.06e-06	-1.53e-04	-8.37e-05
133	63	-3.86e-03	0.07	-0.04	-2.12e-05	-2.66e-05	-8.21e-05
133	65	-3.80e-03	0.07	-0.02	-9.52e-05	-2.43e-06	-8.21e-05
134	1	-0.04	0.09	-0.12	0.0	-2.73e-04	-1.34e-04
134	5	0.03	0.10	-0.02	0.0	5.41e-05	-1.27e-04
134	16	0.03	0.15	-0.03	0.0	5.47e-05	-9.69e-05
134	19	-0.09	0.06	-0.06	0.0	-3.57e-04	-7.08e-05
134	22	-0.09	0.09	-0.07	0.0	-3.28e-04	-7.09e-05
134	40	0.02	0.12	-0.02	0.0	-7.80e-06	-9.46e-05
134	42	-0.05	0.07	-0.04	0.0	-2.12e-04	-7.55e-05
134	46	-0.05	0.09	-0.05	0.0	-1.99e-04	-7.48e-05
134	58	-0.03	0.07	-0.09	0.0	-2.02e-04	-9.90e-05
134	61	0.01	0.08	-0.02	0.0	1.21e-05	-9.31e-05
134	62	-0.02	0.07	-0.07	0.0	-1.70e-04	-9.70e-05
134	64	0.01	0.08	-0.02	0.0	1.21e-05	-9.31e-05
134	65	-1.45e-04	0.09	-0.02	0.0	-7.10e-05	-9.09e-05
135	1	-0.07	0.08	-0.12	5.60e-05	-2.44e-04	-1.23e-04
135	5	0.03	0.10	-0.02	-2.34e-05	4.59e-05	-1.32e-04
135	16	0.03	0.17	-0.03	-2.41e-04	1.43e-05	-1.09e-04
135	19	-0.12	0.06	-0.06	-1.84e-05	-2.61e-04	-7.16e-05
135	22	-0.11	0.10	-0.07	-9.81e-05	-2.42e-04	-7.44e-05
135	40	0.01	0.14	-0.03	-1.73e-04	-2.77e-05	-1.04e-04
135	42	-0.07	0.08	-0.04	-5.53e-05	-1.59e-04	-7.86e-05
135	46	-0.06	0.10	-0.05	-9.69e-05	-1.51e-04	-7.93e-05
135	58	-0.05	0.06	-0.09	4.17e-05	-1.84e-04	-9.09e-05
135	61	0.01	0.08	-0.02	-3.71e-05	6.45e-06	-9.75e-05
135	62	-0.04	0.07	-0.07	6.99e-06	-1.55e-04	-9.24e-05
135	64	0.01	0.08	-0.02	-3.71e-05	6.45e-06	-9.75e-05
135	65	-7.32e-03	0.10	-0.02	-9.71e-05	-6.74e-05	-9.68e-05
136	1	-0.01	0.09	-0.12	0.0	-1.29e-04	-1.22e-04
136	5	0.02	0.10	-0.02	0.0	2.41e-04	-1.14e-04
136	16	0.03	0.13	-0.04	0.0	2.03e-04	-8.25e-05
136	22	-0.05	0.09	-0.08	0.0	-2.35e-04	-6.72e-05
136	25	0.07	0.10	2.75e-03	0.0	3.95e-04	-9.54e-05
136	40	0.02	0.11	-0.04	0.0	1.40e-04	-8.31e-05
136	46	-0.03	0.08	-0.05	0.0	-9.55e-05	-6.93e-05
136	48	0.04	0.09	-0.02	0.0	2.45e-04	-9.40e-05
136	58	-9.96e-03	0.07	-0.08	0.0	-9.38e-05	-9.02e-05
136	61	0.01	0.07	-0.02	0.0	1.52e-04	-8.40e-05
136	62	-5.95e-03	0.07	-0.07	0.0	-5.33e-05	-8.83e-05
136	64	0.01	0.07	-0.02	0.0	1.52e-04	-8.40e-05

136	65	6.07e-03	0.08	-0.03	0.0	6.82e-05	-8.26e-05
137	1	2.81e-03	0.10	-0.12	4.94e-05	-2.70e-04	-1.13e-04
137	16	0.01	0.10	-0.04	-2.39e-04	6.72e-05	-8.36e-05
137	20	0.04	0.06	0.01	-9.48e-05	2.41e-04	-9.54e-05
137	22	-0.03	0.08	-0.08	-9.74e-05	-2.58e-04	-6.85e-05
137	40	7.48e-03	0.09	-0.04	-1.71e-04	3.39e-05	-8.34e-05
137	44	0.02	0.07	-7.90e-03	-9.61e-05	1.29e-04	-9.40e-05
137	46	-0.02	0.07	-0.05	-9.60e-05	-1.44e-04	-6.99e-05
137	58	2.08e-03	0.07	-0.08	3.68e-05	-1.96e-04	-8.38e-05
137	62	2.07e-03	0.07	-0.07	3.59e-06	-1.49e-04	-8.33e-05
137	65	2.04e-03	0.07	-0.03	-9.60e-05	-7.08e-06	-8.20e-05
138	1	-0.03	0.09	-0.12	0.0	-2.74e-04	-1.26e-04
138	5	0.04	0.10	-0.02	0.0	6.26e-05	-1.25e-04
138	16	0.04	0.15	-0.04	0.0	6.90e-05	-9.65e-05
138	22	-0.08	0.09	-0.08	0.0	-3.25e-04	-7.03e-05
138	24	0.10	0.12	-1.22e-03	0.0	2.30e-04	-1.10e-04
138	40	0.02	0.12	-0.04	0.0	3.20e-06	-9.41e-05
138	46	-0.04	0.09	-0.06	0.0	-1.94e-04	-7.43e-05
138	48	0.06	0.11	-0.02	0.0	8.27e-05	-1.06e-04
138	58	-0.02	0.07	-0.08	0.0	-2.03e-04	-9.35e-05
138	61	0.02	0.08	-0.02	0.0	1.86e-05	-9.20e-05
138	62	-0.02	0.07	-0.07	0.0	-1.68e-04	-9.27e-05
138	64	0.02	0.08	-0.02	0.0	1.86e-05	-9.20e-05
138	65	6.30e-03	0.09	-0.03	0.0	-6.37e-05	-9.03e-05
139	1	-0.06	0.08	-0.12	5.13e-05	-2.59e-04	-1.22e-04
139	5	0.04	0.10	-0.02	-2.48e-05	4.70e-05	-1.32e-04
139	16	0.04	0.17	-0.04	-2.43e-04	1.91e-05	-1.08e-04
139	19	-0.11	0.06	-0.06	-1.89e-05	-2.59e-04	-7.17e-05
139	22	-0.11	0.10	-0.08	-9.92e-05	-2.39e-04	-7.44e-05
139	40	0.02	0.14	-0.04	-1.74e-04	-2.38e-05	-1.03e-04
139	42	-0.06	0.08	-0.05	-5.59e-05	-1.56e-04	-7.85e-05
139	46	-0.06	0.10	-0.06	-9.78e-05	-1.48e-04	-7.92e-05
139	58	-0.04	0.06	-0.08	3.82e-05	-1.95e-04	-9.00e-05
139	61	0.02	0.08	-0.02	-3.81e-05	7.72e-06	-9.72e-05
139	62	-0.03	0.07	-0.07	4.17e-06	-1.62e-04	-9.17e-05
139	64	0.02	0.08	-0.02	-3.81e-05	7.72e-06	-9.72e-05
139	65	-3.99e-04	0.10	-0.03	-9.78e-05	-6.46e-05	-9.66e-05
140	1	-5.25e-03	0.09	-0.11	0.0	-1.24e-04	-1.19e-04
140	5	0.03	0.10	-0.03	0.0	2.48e-04	-1.14e-04
140	16	0.03	0.13	-0.06	0.0	2.11e-04	-8.42e-05
140	22	-0.05	0.08	-0.08	0.0	-2.34e-04	-6.75e-05
140	25	0.07	0.10	-9.85e-03	0.0	4.05e-04	-9.70e-05
140	40	0.02	0.11	-0.05	0.0	1.46e-04	-8.44e-05
140	46	-0.02	0.08	-0.06	0.0	-9.27e-05	-6.98e-05
140	48	0.05	0.09	-0.03	0.0	2.52e-04	-9.51e-05
140	58	-3.60e-03	0.07	-0.08	0.0	-8.97e-05	-8.82e-05
140	61	0.02	0.07	-0.02	0.0	1.58e-04	-8.43e-05
140	62	2.82e-04	0.07	-0.07	0.0	-4.91e-05	-8.69e-05
140	64	0.02	0.07	-0.02	0.0	1.58e-04	-8.43e-05
140	65	0.01	0.08	-0.04	0.0	7.29e-05	-8.33e-05
141	1	0.01	0.10	-0.11	4.68e-05	-2.63e-04	-1.13e-04
141	16	0.02	0.10	-0.06	-2.42e-04	5.52e-05	-8.37e-05
141	20	0.04	0.06	5.57e-03	-9.60e-05	2.36e-04	-9.52e-05
141	22	-0.03	0.08	-0.08	-9.85e-05	-2.63e-04	-6.86e-05
141	40	0.01	0.09	-0.05	-1.73e-04	2.55e-05	-8.34e-05
141	44	0.03	0.07	-0.01	-9.73e-05	1.24e-04	-9.39e-05
141	46	-0.01	0.07	-0.06	-9.71e-05	-1.49e-04	-6.99e-05
141	58	7.99e-03	0.07	-0.08	3.48e-05	-1.91e-04	-8.35e-05
141	62	7.97e-03	0.07	-0.07	1.84e-06	-1.46e-04	-8.31e-05
141	65	7.88e-03	0.07	-0.04	-9.72e-05	-1.17e-05	-8.19e-05
142	1	-0.02	0.09	-0.11	0.0	-2.74e-04	-1.22e-04
142	5	0.04	0.10	-0.03	0.0	7.13e-05	-1.25e-04
142	16	0.04	0.15	-0.06	0.0	8.20e-05	-9.70e-05
142	22	-0.08	0.09	-0.09	0.0	-3.21e-04	-7.08e-05
142	24	0.10	0.12	-0.01	0.0	2.43e-04	-1.11e-04
142	40	0.03	0.12	-0.05	0.0	1.33e-05	-9.45e-05
142	46	-0.04	0.09	-0.06	0.0	-1.89e-04	-7.47e-05
142	48	0.06	0.11	-0.03	0.0	9.32e-05	-1.06e-04
142	58	-0.02	0.07	-0.08	0.0	-2.03e-04	-9.04e-05
142	61	0.03	0.08	-0.02	0.0	2.52e-05	-9.19e-05
142	62	-9.54e-03	0.07	-0.07	0.0	-1.67e-04	-9.04e-05
142	64	0.03	0.08	-0.02	0.0	2.52e-05	-9.19e-05
142	65	0.01	0.09	-0.04	0.0	-5.67e-05	-9.06e-05
143	1	-0.05	0.08	-0.11	4.82e-05	-2.65e-04	-1.21e-04
143	2	-0.05	0.05	-0.10	8.29e-05	-2.47e-04	-8.67e-05

143	5	0.05	0.10	-0.03	-2.56e-05	4.91e-05	-1.31e-04
143	16	0.05	0.17	-0.06	-2.45e-04	2.40e-05	-1.08e-04
143	22	-0.10	0.10	-0.09	-9.98e-05	-2.36e-04	-7.42e-05
143	24	0.12	0.13	-0.01	-1.78e-04	1.34e-04	-1.21e-04
143	40	0.03	0.14	-0.05	-1.75e-04	-2.00e-05	-1.03e-04
143	46	-0.05	0.10	-0.06	-9.83e-05	-1.45e-04	-7.90e-05
143	48	0.07	0.12	-0.03	-1.41e-04	3.18e-05	-1.14e-04
143	58	-0.04	0.06	-0.08	3.59e-05	-1.99e-04	-8.92e-05
143	61	0.03	0.08	-0.02	-3.87e-05	9.57e-06	-9.70e-05
143	62	-0.03	0.07	-0.07	2.34e-06	-1.65e-04	-9.10e-05
143	64	0.03	0.08	-0.02	-3.87e-05	9.57e-06	-9.70e-05
143	65	6.51e-03	0.10	-0.04	-9.83e-05	-6.18e-05	-9.64e-05
144	1	3.21e-03	0.09	-0.11	0.0	-1.20e-04	-1.18e-04
144	5	0.04	0.10	-0.03	0.0	2.57e-04	-1.16e-04
144	14	-4.92e-04	0.12	-0.10	0.0	2.55e-05	-7.77e-05
144	16	0.04	0.13	-0.08	0.0	2.20e-04	-8.73e-05
144	25	0.08	0.10	-0.02	0.0	4.15e-04	-1.00e-04
144	38	6.74e-03	0.10	-0.07	0.0	4.87e-05	-7.89e-05
144	40	0.03	0.11	-0.06	0.0	1.53e-04	-8.69e-05
144	44	0.05	0.08	-0.02	0.0	2.46e-04	-9.93e-05
144	58	2.66e-03	0.07	-0.08	0.0	-8.67e-05	-8.76e-05
144	61	0.03	0.07	-0.02	0.0	1.64e-04	-8.59e-05
144	62	6.48e-03	0.07	-0.07	0.0	-4.54e-05	-8.70e-05
144	64	0.03	0.07	-0.02	0.0	1.64e-04	-8.59e-05
144	65	0.02	0.08	-0.04	0.0	7.83e-05	-8.52e-05
145	1	0.02	0.10	-0.11	4.63e-05	-2.59e-04	-1.17e-04
145	14	1.80e-03	0.10	-0.10	-2.19e-04	-1.04e-04	-7.99e-05
145	16	0.02	0.10	-0.08	-2.42e-04	4.39e-05	-8.82e-05
145	20	0.05	0.06	-1.34e-03	-9.48e-05	2.32e-04	-9.87e-05
145	38	6.16e-03	0.09	-0.07	-1.60e-04	-6.36e-05	-7.99e-05
145	40	0.02	0.09	-0.06	-1.73e-04	1.74e-05	-8.71e-05
145	44	0.04	0.07	-0.02	-9.64e-05	1.20e-04	-9.71e-05
145	58	0.01	0.07	-0.08	3.45e-05	-1.88e-04	-8.65e-05
145	62	0.01	0.07	-0.07	1.70e-06	-1.45e-04	-8.60e-05
145	65	0.01	0.07	-0.04	-9.67e-05	-1.62e-05	-8.47e-05
146	1	-0.01	0.09	-0.11	0.0	-2.74e-04	-1.20e-04
146	5	0.05	0.10	-0.03	0.0	7.94e-05	-1.26e-04
146	14	-2.82e-03	0.14	-0.10	0.0	-7.79e-05	-8.59e-05
146	16	0.05	0.15	-0.08	0.0	9.38e-05	-9.81e-05
146	24	0.11	0.12	-0.03	0.0	2.55e-04	-1.12e-04
146	38	6.11e-03	0.12	-0.07	0.0	-6.36e-05	-8.60e-05
146	40	0.04	0.12	-0.06	0.0	2.25e-05	-9.56e-05
146	48	0.07	0.11	-0.04	0.0	1.03e-04	-1.07e-04
146	58	-0.01	0.07	-0.08	0.0	-2.03e-04	-8.91e-05
146	61	0.03	0.08	-0.02	0.0	3.12e-05	-9.27e-05
146	62	-3.12e-03	0.07	-0.07	0.0	-1.65e-04	-8.97e-05
146	64	0.03	0.08	-0.02	0.0	3.12e-05	-9.27e-05
146	65	0.02	0.09	-0.05	0.0	-5.03e-05	-9.16e-05
147	1	-0.04	0.08	-0.11	4.54e-05	-2.67e-04	-1.21e-04
147	5	0.06	0.10	-0.03	-2.66e-05	5.06e-05	-1.32e-04
147	14	-0.01	0.16	-0.10	-2.23e-04	-8.37e-05	-9.34e-05
147	16	0.06	0.17	-0.08	-2.47e-04	2.76e-05	-1.07e-04
147	24	0.13	0.13	-0.03	-1.79e-04	1.37e-04	-1.20e-04
147	38	-7.41e-04	0.13	-0.07	-1.64e-04	-7.04e-05	-9.23e-05
147	40	0.04	0.14	-0.06	-1.77e-04	-1.72e-05	-1.03e-04
147	48	0.08	0.12	-0.04	-1.42e-04	3.40e-05	-1.14e-04
147	58	-0.03	0.06	-0.08	3.38e-05	-2.01e-04	-8.92e-05
147	61	0.04	0.08	-0.02	-3.95e-05	1.09e-05	-9.73e-05
147	62	-0.02	0.07	-0.07	0.0	-1.66e-04	-9.11e-05
147	64	0.04	0.08	-0.02	-3.95e-05	1.09e-05	-9.73e-05
147	65	0.01	0.10	-0.05	-9.94e-05	-6.00e-05	-9.66e-05
148	1	0.01	0.09	-0.11	0.0	-1.16e-04	-1.19e-04
148	5	0.05	0.10	-0.03	0.0	2.65e-04	-1.19e-04
148	14	5.04e-03	0.12	-0.11	0.0	3.11e-05	-7.86e-05
148	16	0.04	0.13	-0.10	0.0	2.28e-04	-8.78e-05
148	25	0.09	0.10	-0.04	0.0	4.25e-04	-1.02e-04
148	38	0.01	0.10	-0.08	0.0	5.39e-05	-8.04e-05
148	40	0.03	0.11	-0.07	0.0	1.60e-04	-8.85e-05
148	44	0.06	0.08	-0.03	0.0	2.54e-04	-1.02e-04
148	58	8.93e-03	0.07	-0.08	0.0	-8.41e-05	-8.87e-05
148	61	0.03	0.07	-0.03	0.0	1.69e-04	-8.84e-05
148	62	0.01	0.07	-0.07	0.0	-4.22e-05	-8.84e-05
148	64	0.03	0.07	-0.03	0.0	1.69e-04	-8.84e-05
148	65	0.02	0.08	-0.05	0.0	8.35e-05	-8.77e-05
149	1	-6.04e-03	0.09	-0.11	0.0	-2.73e-04	-1.25e-04

149	5	0.06	0.10	-0.03	0.0	8.52e-05	-1.33e-04
149	14	3.44e-03	0.14	-0.11	0.0	-7.13e-05	-9.03e-05
149	16	0.06	0.15	-0.10	0.0	1.02e-04	-1.05e-04
149	24	0.12	0.12	-0.04	0.0	2.63e-04	-1.22e-04
149	38	0.01	0.12	-0.08	0.0	-5.82e-05	-9.07e-05
149	40	0.04	0.12	-0.07	0.0	2.90e-05	-1.02e-04
149	48	0.08	0.11	-0.05	0.0	1.09e-04	-1.16e-04
149	58	-4.11e-03	0.07	-0.08	0.0	-2.03e-04	-9.30e-05
149	61	0.04	0.08	-0.03	0.0	3.54e-05	-9.84e-05
149	62	3.40e-03	0.07	-0.07	0.0	-1.64e-04	-9.39e-05
149	64	0.04	0.08	-0.03	0.0	3.54e-05	-9.84e-05
149	65	0.03	0.09	-0.05	0.0	-4.61e-05	-9.69e-05
150	1	-0.03	0.08	-0.11	4.85e-05	-2.70e-04	-1.19e-04
150	5	0.07	0.10	-0.03	-2.42e-05	4.99e-05	-1.32e-04
150	14	-4.26e-03	0.16	-0.11	-2.22e-04	-8.31e-05	-9.25e-05
150	16	0.06	0.17	-0.10	-2.48e-04	2.80e-05	-1.09e-04
150	24	0.14	0.13	-0.04	-1.82e-04	1.36e-04	-1.24e-04
150	38	5.83e-03	0.13	-0.08	-1.63e-04	-7.02e-05	-9.15e-05
150	40	0.04	0.14	-0.07	-1.76e-04	-1.72e-05	-1.03e-04
150	48	0.09	0.12	-0.05	-1.42e-04	3.35e-05	-1.16e-04
150	58	-0.02	0.06	-0.08	3.61e-05	-2.03e-04	-8.80e-05
150	61	0.04	0.08	-0.03	-3.76e-05	1.03e-05	-9.74e-05
150	62	-0.01	0.07	-0.07	2.79e-06	-1.67e-04	-9.00e-05
150	64	0.04	0.08	-0.03	-3.76e-05	1.03e-05	-9.74e-05
150	65	0.02	0.10	-0.05	-9.73e-05	-6.61e-05	-9.61e-05
151	1	-0.03	0.10	-0.13	5.86e-05	-3.58e-04	-1.18e-04
151	17	-0.02	0.10	0.04	-2.71e-04	1.32e-04	-8.76e-05
151	23	-0.06	0.08	-0.04	-1.05e-04	-2.46e-04	-7.56e-05
151	25	5.76e-03	0.08	0.06	-1.98e-04	2.85e-04	-9.73e-05
151	41	-0.02	0.09	0.02	-1.93e-04	7.25e-05	-8.81e-05
151	42	-0.04	0.06	-0.03	-5.70e-05	-1.48e-04	-7.73e-05
151	46	-0.04	0.07	-0.02	-1.04e-04	-1.33e-04	-7.58e-05
151	58	-0.02	0.07	-0.10	4.33e-05	-2.61e-04	-8.73e-05
151	62	-0.02	0.07	-0.07	5.95e-06	-1.95e-04	-8.73e-05
151	65	-0.02	0.07	4.66e-04	-1.06e-04	3.82e-06	-8.73e-05
152	1	-0.10	0.08	-0.14	1.15e-05	-8.67e-05	-1.24e-04
152	5	-3.65e-03	0.10	-0.02	-4.38e-05	9.10e-05	-1.34e-04
152	16	5.62e-03	0.17	0.03	-2.72e-04	2.87e-05	-1.12e-04
152	18	-0.14	0.06	-0.06	-2.96e-05	-2.41e-04	-6.97e-05
152	19	-0.14	0.06	-0.06	-2.90e-05	-2.46e-04	-6.95e-05
152	40	-0.01	0.14	0.02	-1.96e-04	-1.39e-05	-1.06e-04
152	42	-0.09	0.08	-0.03	-6.83e-05	-1.45e-04	-7.82e-05
152	58	-0.07	0.06	-0.10	9.02e-06	-6.78e-05	-9.21e-05
152	61	-9.83e-03	0.08	-7.75e-03	-5.21e-05	3.44e-05	-9.89e-05
152	62	-0.06	0.07	-0.07	-2.14e-05	-6.43e-05	-9.38e-05
152	64	-9.83e-03	0.08	-7.75e-03	-5.21e-05	3.44e-05	-9.89e-05
152	65	-0.03	0.10	-4.80e-04	-1.13e-04	-5.41e-05	-9.86e-05
153	1	-0.07	0.09	-0.14	-4.25e-05	-2.23e-04	-1.65e-04
153	5	-0.03	0.10	-0.01	-3.87e-05	1.71e-04	-1.42e-04
153	16	-0.01	0.13	0.06	-1.99e-05	1.14e-04	-8.50e-05
153	18	-0.09	0.06	-0.06	-2.02e-05	-2.72e-04	-8.50e-05
153	25	0.03	0.10	0.08	-2.94e-05	3.16e-04	-1.04e-04
153	40	-0.02	0.11	0.03	-2.26e-05	7.17e-05	-9.00e-05
153	42	-0.06	0.07	-0.03	-2.10e-05	-1.35e-04	-8.46e-05
153	48	-5.96e-04	0.09	0.04	-2.87e-05	1.80e-04	-1.05e-04
153	58	-0.05	0.07	-0.10	-3.14e-05	-1.63e-04	-1.22e-04
153	61	-0.03	0.07	-3.89e-03	-2.77e-05	1.03e-04	-1.02e-04
153	62	-0.05	0.07	-0.07	-2.98e-05	-1.16e-04	-1.15e-04
153	64	-0.03	0.07	-3.89e-03	-2.77e-05	1.03e-04	-1.02e-04
153	65	-0.03	0.08	8.90e-03	-2.48e-05	2.24e-05	-9.47e-05
154	1	-0.06	0.09	-0.13	-1.71e-05	-2.15e-04	-1.57e-04
154	5	-0.02	0.10	-0.02	-1.62e-05	1.78e-04	-1.41e-04
154	16	-2.03e-03	0.13	0.03	-1.19e-05	1.44e-04	-9.22e-05
154	18	-0.08	0.06	-0.06	-8.41e-06	-2.69e-04	-8.62e-05
154	40	-0.01	0.11	0.02	-1.17e-05	9.12e-05	-9.51e-05
154	42	-0.05	0.07	-0.03	-9.19e-06	-1.29e-04	-8.60e-05
154	58	-0.04	0.07	-0.10	-1.26e-05	-1.57e-04	-1.16e-04
154	61	-0.02	0.07	-7.24e-03	-1.18e-05	1.09e-04	-1.02e-04
154	62	-0.04	0.07	-0.07	-1.23e-05	-1.10e-04	-1.11e-04
154	64	-0.02	0.07	-7.24e-03	-1.18e-05	1.09e-04	-1.02e-04
154	65	-0.02	0.08	-8.49e-05	-1.12e-05	3.14e-05	-9.71e-05
155	1	-0.10	0.09	-0.14	0.0	-2.85e-04	-1.85e-04
155	5	-0.02	0.10	-0.02	0.0	6.38e-06	-1.63e-04
155	16	-7.28e-03	0.15	0.06	0.0	-4.43e-05	-1.25e-04
155	19	-0.12	0.06	-0.06	0.0	-3.63e-04	-9.69e-05

155	25	0.05	0.12	0.08	0.0	1.27e-04	-1.31e-04
155	40	-0.02	0.12	0.03	0.0	-8.12e-05	-1.20e-04
155	42	-0.08	0.07	-0.03	0.0	-2.35e-04	-9.99e-05
155	48	7.65e-03	0.11	0.04	0.0	4.46e-06	-1.29e-04
155	58	-0.07	0.07	-0.10	0.0	-2.12e-04	-1.36e-04
155	61	-0.02	0.08	-4.66e-03	0.0	-2.56e-05	-1.18e-04
155	62	-0.06	0.07	-0.07	0.0	-1.88e-04	-1.31e-04
155	64	-0.02	0.08	-4.66e-03	0.0	-2.56e-05	-1.18e-04
155	65	-0.04	0.09	8.40e-03	0.0	-1.16e-04	-1.14e-04
156	1	-0.08	0.09	-0.13	1.03e-06	-2.55e-04	-1.70e-04
156	5	-8.79e-03	0.10	-0.02	0.0	4.18e-05	-1.56e-04
156	16	4.68e-03	0.15	0.03	-1.30e-06	5.95e-06	-1.19e-04
156	18	-0.11	0.06	-0.06	0.0	-3.39e-04	-8.88e-05
156	19	-0.11	0.06	-0.06	0.0	-3.43e-04	-8.83e-05
156	40	-8.93e-03	0.12	0.02	0.0	-4.09e-05	-1.15e-04
156	42	-0.07	0.07	-0.03	0.0	-2.12e-04	-9.30e-05
156	58	-0.06	0.07	-0.10	0.0	-1.89e-04	-1.25e-04
156	61	-0.01	0.08	-7.76e-03	0.0	1.23e-06	-1.14e-04
156	62	-0.05	0.07	-0.07	0.0	-1.63e-04	-1.21e-04
156	64	-0.01	0.08	-7.76e-03	0.0	1.23e-06	-1.14e-04
156	65	-0.02	0.09	-5.28e-04	0.0	-8.68e-05	-1.10e-04
157	1	-0.11	0.08	-0.15	3.11e-04	8.30e-05	-1.46e-04
157	5	-0.02	0.10	-0.02	1.21e-04	2.07e-04	-1.48e-04
157	16	-5.25e-03	0.17	0.06	-1.18e-04	1.33e-04	-1.26e-04
157	19	-0.14	0.06	-0.06	8.70e-05	-1.16e-04	-8.16e-05
157	25	0.06	0.14	0.08	-1.06e-04	2.01e-04	-1.36e-04
157	40	-0.02	0.14	0.03	-6.73e-05	7.70e-05	-1.18e-04
157	42	-0.09	0.08	-0.03	4.22e-05	-6.49e-05	-8.91e-05
157	48	0.01	0.12	0.04	-5.79e-05	1.13e-04	-1.29e-04
157	58	-0.08	0.06	-0.11	2.28e-04	5.65e-05	-1.08e-04
157	61	-0.02	0.08	-6.31e-03	6.35e-05	1.17e-04	-1.09e-04
157	62	-0.07	0.07	-0.08	1.69e-04	4.82e-05	-1.08e-04
157	64	-0.02	0.08	-6.31e-03	6.35e-05	1.17e-04	-1.09e-04
157	65	-0.04	0.10	7.03e-03	-8.22e-06	2.32e-05	-1.09e-04
158	1	-0.02	0.06	-0.05	4.37e-05	-1.11e-04	-1.08e-04
158	3	-0.02	0.06	-0.05	5.51e-05	1.33e-05	-1.08e-04
158	17	-9.07e-03	0.08	2.68e-03	-1.62e-04	8.67e-05	-8.39e-05
158	22	-0.05	0.05	-7.96e-03	-8.66e-05	-9.94e-05	-6.13e-05
158	26	-0.03	0.03	-9.89e-03	-4.68e-05	-2.29e-05	-7.63e-05
158	41	-0.01	0.06	9.99e-05	-1.21e-04	5.50e-05	-8.31e-05
158	42	-0.04	0.04	-5.37e-03	-5.45e-05	-4.92e-05	-6.70e-05
158	46	-0.04	0.05	-4.84e-03	-8.11e-05	-4.03e-05	-6.56e-05
158	58	-0.02	0.04	-0.03	3.27e-05	-8.26e-05	-7.97e-05
158	60	-0.02	0.04	-0.03	1.22e-05	1.25e-05	-8.03e-05
158	62	-0.02	0.04	-0.03	5.83e-06	-5.68e-05	-8.00e-05
158	63	-0.02	0.04	-0.03	1.22e-05	1.25e-05	-8.03e-05
158	65	-0.02	0.04	-2.06e-03	-7.47e-05	2.07e-05	-8.10e-05
159	1	-0.04	0.06	-0.05	0.0	-2.15e-04	-1.08e-04
159	3	-0.03	0.06	-0.05	0.0	-6.22e-05	-1.15e-04
159	5	-0.01	0.06	-0.05	0.0	1.17e-04	-1.23e-04
159	17	-3.80e-04	0.10	3.52e-03	0.0	1.05e-04	-9.55e-05
159	19	-0.07	0.04	-6.62e-03	0.0	-3.39e-04	-6.22e-05
159	26	-0.03	0.04	-0.01	0.0	-1.16e-04	-8.00e-05
159	41	-8.45e-03	0.08	2.68e-04	0.0	4.62e-05	-9.23e-05
159	42	-0.05	0.04	-6.35e-03	0.0	-1.82e-04	-6.95e-05
159	58	-0.03	0.04	-0.04	0.0	-1.59e-04	-7.98e-05
159	61	-0.01	0.05	-0.02	0.0	6.06e-05	-9.01e-05
159	62	-0.03	0.04	-0.03	0.0	-1.23e-04	-8.17e-05
159	63	-0.02	0.05	-0.03	0.0	-3.88e-05	-8.60e-05
159	64	-0.01	0.05	-0.02	0.0	6.06e-05	-9.01e-05
159	65	-0.02	0.05	-2.61e-03	0.0	-1.79e-05	-8.75e-05
160	1	-0.06	0.05	-0.05	0.0	-2.62e-04	-1.15e-04
160	3	-0.03	0.06	-0.06	0.0	-9.21e-05	-1.29e-04
160	5	-2.65e-03	0.06	-0.05	0.0	1.00e-04	-1.38e-04
160	17	8.58e-03	0.12	2.89e-03	0.0	9.20e-05	-1.05e-04
160	19	-0.10	0.04	-7.32e-03	0.0	-3.60e-04	-7.99e-05
160	26	-0.05	0.04	-0.01	0.0	-1.35e-04	-9.13e-05
160	41	-5.04e-03	0.09	-3.72e-04	0.0	3.19e-05	-1.02e-04
160	42	-0.07	0.05	-7.05e-03	0.0	-2.03e-04	-8.30e-05
160	58	-0.05	0.04	-0.04	0.0	-1.92e-04	-8.55e-05
160	61	-6.56e-03	0.05	-0.03	0.0	4.82e-05	-1.01e-04
160	62	-0.04	0.04	-0.03	0.0	-1.53e-04	-8.83e-05
160	63	-0.02	0.05	-0.03	0.0	-5.86e-05	-9.60e-05
160	64	-6.56e-03	0.05	-0.03	0.0	4.82e-05	-1.01e-04
160	65	-0.02	0.06	-3.27e-03	0.0	-3.36e-05	-9.70e-05

161	1	-0.09	0.05	-0.06	1.01e-04	-2.49e-04	-1.22e-04
161	3	-0.04	0.05	-0.06	1.28e-04	-3.87e-05	-1.32e-04
161	5	9.14e-03	0.06	-0.05	6.35e-05	1.68e-04	-1.36e-04
161	17	0.02	0.14	6.43e-05	-1.40e-04	7.86e-05	-1.10e-04
161	19	-0.13	0.04	-8.16e-03	-1.09e-05	-1.78e-04	-7.77e-05
161	26	-0.06	0.04	-0.01	-2.07e-05	-6.00e-05	-9.17e-05
161	41	-1.97e-03	0.11	-2.57e-03	-9.79e-05	4.04e-05	-1.06e-04
161	42	-0.08	0.05	-8.23e-03	-2.99e-05	-9.41e-05	-8.27e-05
161	58	-0.06	0.03	-0.04	7.39e-05	-1.82e-04	-9.05e-05
161	61	-3.70e-04	0.05	-0.03	2.20e-05	9.42e-05	-1.00e-04
161	62	-0.05	0.04	-0.03	4.27e-05	-1.37e-04	-9.27e-05
161	63	-0.03	0.05	-0.03	5.77e-05	-2.05e-05	-9.82e-05
161	64	-3.70e-04	0.05	-0.03	2.20e-05	9.42e-05	-1.00e-04
161	65	-0.02	0.07	-4.77e-03	-5.11e-05	-1.85e-06	-9.90e-05
162	1	-0.02	0.10	-0.13	5.37e-05	-3.06e-04	-1.16e-04
162	17	-4.48e-03	0.10	7.00e-03	-2.38e-04	1.05e-04	-8.38e-05
162	18	-0.05	0.06	-0.06	-1.61e-05	-2.64e-04	-7.28e-05
162	23	-0.05	0.08	-0.06	-9.48e-05	-2.47e-04	-7.08e-05
162	41	-8.43e-03	0.09	-2.55e-03	-1.70e-04	5.79e-05	-8.42e-05
162	42	-0.03	0.06	-0.04	-5.31e-05	-1.42e-04	-7.32e-05
162	46	-0.03	0.07	-0.04	-9.44e-05	-1.35e-04	-7.17e-05
162	58	-0.01	0.07	-0.09	3.99e-05	-2.23e-04	-8.58e-05
162	62	-0.01	0.07	-0.07	6.15e-06	-1.66e-04	-8.53e-05
162	65	-0.01	0.07	-0.01	-9.52e-05	3.08e-06	-8.35e-05
163	1	-0.04	0.09	-0.13	2.24e-03	-1.71e-04	-1.41e-04
163	5	-1.17e-03	0.10	-0.02	1.11e-03	2.11e-04	-1.25e-04
163	16	9.63e-03	0.13	3.02e-03	3.61e-04	1.76e-04	-8.60e-05
163	18	-0.07	0.06	-0.06	2.16e-04	-2.61e-04	-7.67e-05
163	40	8.86e-04	0.11	-4.02e-03	3.84e-04	1.18e-04	-8.75e-05
163	42	-0.04	0.07	-0.04	2.83e-04	-1.16e-04	-7.71e-05
163	58	-0.03	0.07	-0.09	1.65e-03	-1.24e-04	-1.05e-04
163	61	-2.90e-03	0.07	-0.01	7.12e-04	1.32e-04	-9.13e-05
163	62	-0.02	0.07	-0.07	1.34e-03	-8.01e-05	-1.00e-04
163	64	-2.90e-03	0.07	-0.01	7.12e-04	1.32e-04	-9.13e-05
163	65	-9.90e-03	0.08	-0.01	4.13e-04	5.18e-05	-8.80e-05
164	1	-0.06	0.09	-0.13	-1.35e-03	-2.67e-04	-1.51e-04
164	5	0.01	0.10	-0.02	8.63e-05	4.33e-05	-1.36e-04
164	16	0.02	0.15	2.69e-03	8.52e-04	2.94e-05	-1.02e-04
164	18	-0.10	0.06	-0.06	-3.30e-04	-3.50e-04	-7.53e-05
164	19	-0.10	0.06	-0.06	-3.28e-04	-3.53e-04	-7.50e-05
164	40	5.24e-03	0.12	-4.35e-03	5.75e-04	-2.61e-05	-9.95e-05
164	42	-0.06	0.07	-0.04	-4.78e-05	-1.15e-04	-7.98e-05
164	58	-0.04	0.07	-0.09	-1.00e-03	-1.98e-04	-1.12e-04
164	61	3.37e-03	0.08	-0.01	1.17e-04	3.47e-06	-9.94e-05
164	62	-0.04	0.07	-0.07	-6.83e-04	-1.69e-04	-1.08e-04
164	64	3.37e-03	0.08	-0.01	1.17e-04	3.47e-06	-9.94e-05
164	65	-0.01	0.09	-0.01	2.69e-04	-8.16e-05	-9.57e-05
165	1	-0.13	0.09	-0.21	1.73e-04	-1.73e-04	0.0
165	5	-0.04	0.10	-0.05	1.89e-04	1.64e-04	0.0
165	16	-0.02	0.17	0.05	6.68e-05	1.11e-04	0.0
165	18	-0.15	0.06	-0.09	1.95e-04	-1.81e-04	0.0
165	19	-0.15	0.06	-0.09	1.94e-04	-1.83e-04	0.0
165	40	-0.04	0.14	0.02	7.57e-05	6.42e-05	0.0
165	42	-0.11	0.08	-0.05	1.40e-04	-8.61e-05	0.0
165	58	-0.09	0.06	-0.15	1.28e-04	-1.30e-04	0.0
165	61	-0.03	0.08	-0.03	1.26e-04	9.36e-05	0.0
165	62	-0.09	0.07	-0.11	1.18e-04	-9.36e-05	0.0
165	64	-0.03	0.08	-0.03	1.26e-04	9.36e-05	0.0
165	65	-0.06	0.10	-5.54e-03	8.80e-05	1.46e-05	0.0
166	1	-0.12	8.21e-03	-0.04	6.92e-05	-3.30e-04	0.0
166	5	-0.03	0.02	-0.15	1.15e-05	-2.32e-04	0.0
166	15	-0.07	0.10	0.03	-1.44e-04	-1.03e-04	0.0
166	19	-0.15	0.02	0.05	-3.11e-05	-2.81e-04	0.0
166	20	0.04	0.02	-0.06	-1.71e-05	1.41e-04	0.0
166	39	-0.06	0.07	0.02	-1.01e-04	-8.21e-05	0.0
166	42	-0.10	0.03	0.02	-4.05e-05	-1.77e-04	0.0
166	44	-1.41e-03	0.02	-0.03	-3.29e-05	4.20e-05	0.0
166	58	-0.09	6.10e-03	-0.02	5.15e-05	-2.39e-04	0.0
166	61	-0.03	0.02	-0.08	-6.25e-06	-1.40e-04	0.0
166	62	-0.08	0.01	-0.02	2.58e-05	-1.95e-04	0.0
166	64	-0.03	0.02	-0.08	-6.25e-06	-1.40e-04	0.0
166	65	-0.05	0.04	-4.55e-04	-5.12e-05	-6.30e-05	0.0
167	1	-0.08	0.06	-0.10	1.26e-04	-2.76e-04	0.0
167	5	0.01	0.08	-0.04	4.85e-06	8.13e-05	0.0
167	16	0.02	0.15	-4.55e-03	-2.02e-04	2.80e-05	0.0



167	18	-0.13	0.05	-0.03	-2.40e-05	-1.31e-04	0.0
167	19	-0.13	0.05	-0.03	-2.37e-05	-1.30e-04	0.0
167	40	1.15e-03	0.12	-6.71e-03	-1.45e-04	7.17e-06	0.0
167	42	-0.08	0.06	-0.02	-5.16e-05	-7.81e-05	0.0
167	58	-0.06	0.05	-0.07	9.36e-05	-2.03e-04	0.0
167	61	2.46e-03	0.06	-0.02	-1.79e-05	4.22e-05	0.0
167	62	-0.05	0.06	-0.05	4.96e-05	-1.56e-04	0.0
167	64	2.46e-03	0.06	-0.02	-1.79e-05	4.22e-05	0.0
167	65	-0.02	0.08	-0.01	-8.24e-05	-1.71e-05	0.0
168	1	-0.13	0.06	-0.17	5.86e-05	-3.31e-04	0.0
168	5	-0.04	0.08	-0.08	1.18e-04	1.29e-04	0.0
168	17	-0.02	0.15	0.04	-1.71e-05	6.58e-05	0.0
168	18	-0.15	0.05	-0.06	1.02e-04	-2.14e-04	0.0
168	19	-0.15	0.05	-0.05	1.01e-04	-2.14e-04	0.0
168	41	-0.04	0.12	0.02	5.08e-06	2.57e-05	0.0
168	42	-0.11	0.06	-0.03	6.52e-05	-1.19e-04	0.0
168	58	-0.09	0.05	-0.12	4.50e-05	-2.45e-04	0.0
168	61	-0.03	0.06	-0.04	7.46e-05	6.76e-05	0.0
168	62	-0.09	0.06	-0.09	4.14e-05	-1.88e-04	0.0
168	64	-0.03	0.06	-0.04	7.46e-05	6.76e-05	0.0
168	65	-0.06	0.08	-5.97e-03	3.08e-05	-1.79e-05	0.0
169	1	-0.13	8.46e-03	-0.04	4.12e-05	-3.12e-04	0.0
169	5	-0.04	0.02	-0.15	-7.56e-05	-1.72e-04	0.0
169	15	-0.08	0.10	0.04	-1.49e-04	-1.06e-04	0.0
169	19	-0.15	0.02	0.05	-3.58e-05	-2.72e-04	0.0
169	23	-0.15	0.06	0.07	-8.99e-05	-2.63e-04	0.0
169	39	-0.07	0.07	0.02	-1.07e-04	-8.04e-05	0.0
169	42	-0.11	0.03	0.03	-4.68e-05	-1.69e-04	0.0
169	46	-0.10	0.05	0.03	-7.55e-05	-1.64e-04	0.0
169	58	-0.10	6.28e-03	-0.03	3.20e-05	-2.26e-04	0.0
169	61	-0.04	0.02	-0.08	-5.54e-05	-1.07e-04	0.0
169	62	-0.09	0.01	-0.02	9.45e-06	-1.84e-04	0.0
169	64	-0.04	0.02	-0.08	-5.54e-05	-1.07e-04	0.0
169	65	-0.06	0.04	3.59e-03	-5.81e-05	-5.76e-05	0.0
170	1	-0.10	0.08	-0.18	6.37e-06	0.0	-1.04e-04
170	5	-0.07	0.09	-0.08	-1.14e-04	0.0	-1.30e-04
170	17	-0.05	0.13	0.05	-3.80e-04	0.0	-9.51e-05
170	18	-0.11	0.06	-0.09	-9.26e-05	0.0	-7.16e-05
170	19	-0.11	0.06	-0.08	-9.37e-05	0.0	-7.14e-05
170	41	-0.05	0.11	0.02	-2.95e-04	0.0	-9.35e-05
170	42	-0.09	0.06	-0.05	-1.36e-04	0.0	-7.59e-05
170	58	-0.08	0.06	-0.13	3.48e-06	0.0	-7.70e-05
170	61	-0.06	0.07	-0.04	-1.11e-04	0.0	-9.50e-05
170	62	-0.07	0.06	-0.10	-4.45e-05	0.0	-8.04e-05
170	64	-0.06	0.07	-0.04	-1.11e-04	0.0	-9.50e-05
170	65	-0.06	0.08	-9.85e-03	-1.88e-04	0.0	-9.06e-05
171	1	-0.08	0.09	-0.18	2.88e-04	-2.40e-04	-1.15e-04
171	3	-0.08	0.09	-0.13	1.96e-04	-7.64e-05	-1.23e-04
171	5	-0.08	0.09	-0.08	1.04e-04	9.21e-05	-1.21e-04
171	17	-0.05	0.10	0.05	-2.40e-04	3.82e-05	-8.72e-05
171	18	-0.09	0.05	-0.09	1.09e-04	-2.55e-04	-8.30e-05
171	19	-0.09	0.05	-0.08	1.03e-04	-2.56e-04	-8.30e-05
171	41	-0.05	0.08	0.02	-1.59e-04	2.19e-06	-8.84e-05
171	42	-0.07	0.06	-0.05	3.15e-05	-1.49e-04	-8.09e-05
171	58	-0.06	0.07	-0.13	2.09e-04	-1.77e-04	-8.50e-05
171	60	-0.06	0.07	-0.07	9.19e-05	-5.09e-05	-9.04e-05
171	61	-0.06	0.07	-0.04	4.08e-05	4.26e-05	-8.95e-05
171	62	-0.06	0.07	-0.10	1.43e-04	-1.42e-04	-8.59e-05
171	63	-0.06	0.07	-0.07	9.19e-05	-5.09e-05	-9.04e-05
171	64	-0.06	0.07	-0.04	4.08e-05	4.26e-05	-8.95e-05
171	65	-0.06	0.07	-9.41e-03	-5.52e-05	-3.69e-05	-8.85e-05
172	1	-0.12	0.07	-0.18	4.38e-05	0.0	-1.06e-04
172	5	-0.06	0.10	-0.08	1.81e-05	0.0	-1.37e-04
172	17	-0.04	0.15	0.05	-1.91e-04	0.0	-1.09e-04
172	18	-0.14	0.06	-0.09	7.33e-06	0.0	-7.00e-05
172	19	-0.14	0.06	-0.08	9.44e-06	0.0	-6.98e-05
172	41	-0.05	0.13	0.02	-1.19e-04	0.0	-1.04e-04
172	42	-0.10	0.07	-0.05	-2.12e-05	0.0	-7.78e-05
172	58	-0.09	0.06	-0.13	3.40e-05	0.0	-7.85e-05
172	61	-0.05	0.08	-0.04	-1.65e-06	0.0	-1.00e-04
172	62	-0.09	0.06	-0.10	1.26e-05	0.0	-8.31e-05
172	64	-0.05	0.08	-0.04	-1.65e-06	0.0	-1.00e-04
172	65	-0.07	0.09	-0.01	-5.16e-05	0.0	-9.68e-05
173	1	-0.15	0.08	-0.18	-8.87e-05	-2.48e-04	-1.23e-04
173	5	-0.06	0.09	-0.08	5.59e-05	9.56e-05	-1.32e-04

173	16	-0.04	0.16	0.04	-6.00e-05	3.96e-05	-1.12e-04
173	18	-0.16	0.06	-0.09	7.91e-05	-2.57e-04	-6.46e-05
173	19	-0.16	0.06	-0.09	8.31e-05	-2.59e-04	-6.44e-05
173	40	-0.05	0.13	0.02	-1.50e-05	2.41e-06	-1.05e-04
173	42	-0.12	0.07	-0.05	4.69e-05	-1.50e-04	-7.50e-05
173	58	-0.11	0.06	-0.13	-6.15e-05	-1.83e-04	-9.13e-05
173	61	-0.05	0.07	-0.04	3.86e-05	4.44e-05	-9.75e-05
173	62	-0.10	0.06	-0.10	-4.18e-05	-1.47e-04	-9.27e-05
173	64	-0.05	0.07	-0.04	3.86e-05	4.44e-05	-9.75e-05
173	65	-0.07	0.09	-0.01	1.74e-05	-3.70e-05	-9.69e-05
174	1	-0.08	0.05	-0.05	8.79e-05	-2.47e-04	-1.22e-04
174	3	-0.04	0.05	-0.06	9.73e-05	-4.48e-05	-1.31e-04
174	5	0.01	0.06	-0.05	4.39e-05	1.55e-04	-1.34e-04
174	17	0.02	0.14	-3.75e-03	-1.69e-04	7.48e-05	-1.10e-04
174	19	-0.13	0.04	-8.41e-03	-1.17e-05	-1.83e-04	-7.34e-05
174	26	-0.05	0.04	-0.01	-2.47e-05	-6.43e-05	-8.98e-05
174	41	5.13e-04	0.11	-5.23e-03	-1.18e-04	3.66e-05	-1.05e-04
174	42	-0.08	0.05	-9.01e-03	-3.53e-05	-9.88e-05	-8.00e-05
174	46	-0.07	0.07	-9.24e-03	-6.73e-05	-8.93e-05	-8.11e-05
174	58	-0.06	0.03	-0.04	6.46e-05	-1.81e-04	-9.01e-05
174	61	1.95e-03	0.05	-0.03	8.58e-06	8.60e-05	-9.90e-05
174	62	-0.05	0.04	-0.03	3.30e-05	-1.37e-04	-9.21e-05
174	63	-0.03	0.05	-0.03	3.82e-05	-2.47e-05	-9.71e-05
174	64	1.95e-03	0.05	-0.03	8.58e-06	8.60e-05	-9.90e-05
174	65	-0.02	0.07	-6.14e-03	-6.16e-05	-5.60e-06	-9.81e-05
175	1	-0.08	0.07	-0.12	1.17e-04	-1.27e-04	0.0
175	5	0.01	0.09	-0.03	-5.69e-06	1.28e-04	0.0
175	16	0.02	0.16	-8.25e-04	-2.28e-04	5.62e-05	0.0
175	18	-0.13	0.06	-0.05	-1.70e-05	-1.26e-04	0.0
175	19	-0.13	0.06	-0.04	-1.68e-05	-1.28e-04	0.0
175	40	1.48e-03	0.13	-4.99e-03	-1.63e-04	3.03e-05	0.0
175	42	-0.08	0.07	-0.03	-5.17e-05	-6.27e-05	0.0
175	58	-0.06	0.05	-0.08	8.69e-05	-9.64e-05	0.0
175	61	2.80e-03	0.07	-0.02	-2.58e-05	7.01e-05	0.0
175	62	-0.05	0.06	-0.06	4.25e-05	-7.14e-05	0.0
175	64	2.80e-03	0.07	-0.02	-2.58e-05	7.01e-05	0.0
175	65	-0.02	0.09	-0.01	-9.08e-05	3.42e-06	0.0
176	1	-0.02	0.06	-0.05	4.03e-05	-1.10e-04	-1.10e-04
176	3	-0.02	0.06	-0.05	3.67e-05	1.61e-05	-1.10e-04
176	17	-7.13e-03	0.08	-1.61e-03	-1.86e-04	8.99e-05	-8.37e-05
176	22	-0.05	0.05	-0.01	-9.27e-05	-1.02e-04	-6.64e-05
176	26	-0.03	0.03	-0.01	-4.56e-05	-2.23e-05	-7.84e-05
176	41	-0.01	0.06	-3.06e-03	-1.36e-04	5.75e-05	-8.34e-05
176	46	-0.03	0.05	-6.89e-03	-8.69e-05	-4.09e-05	-6.87e-05
176	58	-0.02	0.04	-0.03	3.02e-05	-8.16e-05	-8.13e-05
176	60	-0.02	0.04	-0.03	0.0	1.45e-05	-8.15e-05
176	62	-0.02	0.04	-0.03	2.58e-06	-5.55e-05	-8.15e-05
176	63	-0.02	0.04	-0.03	0.0	1.45e-05	-8.15e-05
176	65	-0.02	0.04	-3.96e-03	-8.03e-05	2.25e-05	-8.19e-05
177	1	-0.04	0.06	-0.05	-1.48e-06	-2.15e-04	-1.10e-04
177	3	-0.02	0.06	-0.05	-5.01e-06	-6.30e-05	-1.17e-04
177	5	-9.38e-03	0.06	-0.05	-6.80e-06	1.15e-04	-1.24e-04
177	17	1.87e-03	0.10	-1.76e-03	-5.84e-06	1.05e-04	-9.54e-05
177	19	-0.07	0.04	-6.99e-03	-2.74e-06	-3.38e-04	-6.63e-05
177	26	-0.03	0.04	-0.01	-3.25e-06	-1.17e-04	-8.19e-05
177	41	-6.27e-03	0.08	-3.43e-03	-4.95e-06	4.59e-05	-9.26e-05
177	42	-0.05	0.04	-7.47e-03	-3.17e-06	-1.82e-04	-7.21e-05
177	46	-0.04	0.06	-7.55e-03	-3.69e-06	-1.72e-04	-7.17e-05
177	58	-0.03	0.04	-0.03	-1.08e-06	-1.59e-04	-8.16e-05
177	61	-9.19e-03	0.05	-0.03	-4.75e-06	5.95e-05	-9.08e-05
177	62	-0.02	0.04	-0.03	-1.79e-06	-1.24e-04	-8.33e-05
177	63	-0.02	0.05	-0.03	-3.75e-06	-3.93e-05	-8.72e-05
177	64	-9.19e-03	0.05	-0.03	-4.75e-06	5.95e-05	-9.08e-05
177	65	-0.02	0.05	-4.57e-03	-3.93e-06	-1.82e-05	-8.84e-05
178	1	-0.06	0.05	-0.05	-3.08e-06	-2.62e-04	-1.16e-04
178	3	-0.03	0.06	-0.06	-4.10e-06	-8.94e-05	-1.29e-04
178	5	6.07e-04	0.06	-0.05	-3.69e-06	1.05e-04	-1.37e-04
178	17	0.01	0.12	-2.48e-03	-4.23e-06	9.40e-05	-1.06e-04
178	19	-0.10	0.04	-7.76e-03	-2.34e-06	-3.59e-04	-7.71e-05
178	26	-0.04	0.04	-0.01	-2.44e-06	-1.34e-04	-9.04e-05
178	41	-2.63e-03	0.09	-4.16e-03	-3.58e-06	3.37e-05	-1.02e-04
178	42	-0.06	0.05	-8.25e-03	-2.47e-06	-2.01e-04	-8.15e-05
178	46	-0.06	0.07	-8.34e-03	-2.88e-06	-1.91e-04	-8.21e-05
178	58	-0.04	0.04	-0.04	-2.26e-06	-1.93e-04	-8.56e-05
178	61	-4.18e-03	0.05	-0.03	-2.75e-06	5.14e-05	-1.00e-04

178	62	-0.04	0.04	-0.03	-2.41e-06	-1.52e-04	-8.84e-05
178	63	-0.02	0.05	-0.03	-2.97e-06	-5.68e-05	-9.58e-05
178	64	-4.18e-03	0.05	-0.03	-2.75e-06	5.14e-05	-1.00e-04
178	65	-0.02	0.06	-5.30e-03	-2.85e-06	-3.19e-05	-9.69e-05
179	1	-0.08	0.02	-0.02	7.48e-05	-1.53e-04	-1.19e-04
179	5	0.01	0.03	-0.10	9.42e-05	1.45e-04	-1.30e-04
179	17	0.02	0.11	-0.03	-1.78e-04	1.22e-04	-1.05e-04
179	19	-0.13	0.02	0.02	-2.36e-05	-2.02e-04	-6.68e-05
179	24	0.09	0.07	-0.05	-1.03e-04	2.47e-04	-1.24e-04
179	39	-0.03	0.08	-0.02	-1.22e-04	8.16e-06	-8.87e-05
179	42	-0.08	0.03	1.45e-03	-4.21e-05	-9.32e-05	-7.51e-05
179	48	0.04	0.05	-0.03	-8.37e-05	1.38e-04	-1.16e-04
179	58	-0.06	0.01	-0.02	5.44e-05	-1.11e-04	-8.82e-05
179	61	1.12e-03	0.03	-0.06	3.58e-05	8.73e-05	-9.60e-05
179	62	-0.05	0.02	-0.02	2.51e-05	-7.79e-05	-9.00e-05
179	64	1.12e-03	0.03	-0.06	3.58e-05	8.73e-05	-9.60e-05
179	65	-0.02	0.04	-0.01	-6.30e-05	2.24e-05	-9.53e-05
180	1	-0.02	0.03	-0.02	2.84e-05	-1.77e-04	-1.17e-04
180	5	-0.02	0.03	-0.09	-3.61e-05	1.84e-04	-1.16e-04
180	15	-0.03	0.06	-0.01	-1.87e-04	-2.36e-05	-8.56e-05
180	22	-0.05	0.04	9.68e-03	-9.76e-05	-2.06e-04	-7.79e-05
180	24	0.01	0.03	-0.05	-1.37e-04	2.48e-04	-9.66e-05
180	39	-0.02	0.04	-0.01	-1.38e-04	-8.05e-06	-8.38e-05
180	46	-0.04	0.03	-1.48e-03	-9.11e-05	-1.03e-04	-7.70e-05
180	48	-5.59e-05	0.03	-0.03	-1.11e-04	9.64e-05	-9.64e-05
180	58	-0.02	0.02	-0.01	2.18e-05	-1.31e-04	-8.64e-05
180	61	-0.02	0.03	-0.05	-4.04e-05	1.04e-04	-8.60e-05
180	62	-0.02	0.02	-0.01	-4.56e-06	-9.64e-05	-8.65e-05
180	64	-0.02	0.03	-0.05	-4.04e-05	1.04e-04	-8.60e-05
180	65	-0.02	0.03	-0.01	-8.36e-05	7.50e-06	-8.67e-05
181	1	-0.05	0.03	-0.02	1.49e-05	-2.71e-04	-7.99e-05
181	5	-0.01	0.03	-0.10	1.11e-05	7.43e-05	-8.42e-05
181	14	-0.04	0.08	-0.02	1.10e-05	-9.96e-05	-6.49e-05
181	19	-0.08	0.02	0.02	1.53e-05	-3.40e-04	-5.41e-05
181	24	0.04	0.04	-0.05	1.49e-06	2.40e-04	-7.02e-05
181	38	-0.03	0.06	-0.02	9.86e-06	-7.56e-05	-6.10e-05
181	42	-0.05	0.03	1.51e-03	1.22e-05	-1.99e-04	-5.33e-05
181	48	9.98e-03	0.04	-0.03	4.67e-06	9.99e-05	-7.11e-05
181	58	-0.03	0.02	-0.02	1.11e-05	-2.00e-04	-5.91e-05
181	61	-0.01	0.03	-0.05	8.34e-06	2.94e-05	-6.22e-05
181	62	-0.03	0.02	-0.01	1.05e-05	-1.63e-04	-5.98e-05
181	64	-0.01	0.03	-0.05	8.34e-06	2.94e-05	-6.22e-05
181	65	-0.02	0.03	-0.01	8.42e-06	-4.99e-05	-6.22e-05
182	1	-0.07	0.02	-0.02	-1.05e-05	-1.91e-04	-5.86e-05
182	5	-2.71e-03	0.03	-0.10	-1.10e-05	1.56e-04	-7.02e-05
182	17	6.85e-03	0.09	-0.03	-9.69e-06	1.28e-04	-6.48e-05
182	19	-0.11	0.02	0.02	-3.65e-06	-2.77e-04	-1.83e-05
182	24	0.06	0.05	-0.05	-1.41e-05	3.00e-04	-8.97e-05
182	39	-0.03	0.07	-0.02	-7.49e-06	-1.40e-05	-4.58e-05
182	42	-0.07	0.03	1.39e-03	-5.97e-06	-1.38e-04	-3.03e-05
182	48	0.02	0.05	-0.03	-1.18e-05	1.61e-04	-7.77e-05
182	58	-0.05	0.02	-0.02	-7.81e-06	-1.41e-04	-4.32e-05
182	61	-7.05e-03	0.03	-0.06	-8.37e-06	9.00e-05	-5.23e-05
182	62	-0.04	0.02	-0.02	-8.08e-06	-1.03e-04	-4.59e-05
182	64	-7.05e-03	0.03	-0.06	-8.37e-06	9.00e-05	-5.23e-05
182	65	-0.02	0.04	-0.01	-8.89e-06	1.15e-05	-5.40e-05
183	1	-0.09	0.07	-0.12	1.17e-04	-8.46e-05	0.0
183	5	4.64e-03	0.09	-0.03	3.91e-06	1.45e-04	0.0
183	16	0.01	0.16	0.01	-2.22e-04	7.64e-05	0.0
183	18	-0.13	0.06	-0.05	-9.93e-06	-1.26e-04	0.0
183	19	-0.13	0.06	-0.04	-9.86e-06	-1.29e-04	0.0
183	40	-5.50e-03	0.13	5.56e-03	-1.57e-04	4.50e-05	0.0
183	42	-0.08	0.07	-0.03	-4.55e-05	-5.90e-05	0.0
183	58	-0.07	0.05	-0.09	8.64e-05	-6.53e-05	0.0
183	61	-3.70e-03	0.07	-0.01	-1.92e-05	8.16e-05	0.0
183	62	-0.06	0.06	-0.07	4.35e-05	-4.59e-05	0.0
183	64	-3.70e-03	0.07	-0.01	-1.92e-05	8.16e-05	0.0
183	65	-0.03	0.09	-4.97e-03	-8.52e-05	1.20e-05	0.0
184	1	-0.09	0.06	-0.11	1.45e-04	-2.95e-04	0.0
184	5	4.19e-03	0.08	-0.04	2.69e-05	8.63e-05	0.0
184	16	0.01	0.15	8.21e-03	-1.81e-04	5.61e-05	0.0
184	18	-0.13	0.05	-0.03	-9.25e-06	-1.37e-04	0.0
184	19	-0.13	0.05	-0.03	-9.20e-06	-1.35e-04	0.0
184	40	-5.83e-03	0.12	2.38e-03	-1.28e-04	2.60e-05	0.0
184	42	-0.08	0.06	-0.02	-3.76e-05	-7.70e-05	0.0

184	58	-0.07	0.05	-0.08	1.07e-04	-2.17e-04	0.0
184	61	-4.03e-03	0.06	-0.02	-2.38e-06	4.72e-05	0.0
184	62	-0.06	0.06	-0.06	6.34e-05	-1.65e-04	0.0
184	64	-4.03e-03	0.06	-0.02	-2.38e-06	4.72e-05	0.0
184	65	-0.03	0.08	-5.23e-03	-6.85e-05	-8.43e-06	0.0
185	1	-0.10	0.07	-0.13	1.59e-04	-2.04e-05	0.0
185	5	-4.17e-03	0.09	-0.03	4.36e-05	1.85e-04	0.0
185	16	5.24e-03	0.16	0.03	-1.91e-04	1.18e-04	0.0
185	18	-0.14	0.06	-0.05	2.03e-05	-1.12e-04	0.0
185	19	-0.14	0.06	-0.04	1.96e-05	-1.15e-04	0.0
185	40	-0.01	0.13	0.02	-1.29e-04	7.75e-05	0.0
185	42	-0.09	0.07	-0.02	-1.83e-05	-4.07e-05	0.0
185	58	-0.07	0.05	-0.09	1.17e-04	-1.82e-05	0.0
185	61	-0.01	0.07	-0.01	8.62e-06	1.09e-04	0.0
185	62	-0.06	0.06	-0.07	7.25e-05	-4.84e-06	0.0
185	64	-0.01	0.07	-0.01	8.62e-06	1.09e-04	0.0
185	65	-0.03	0.09	-1.52e-05	-6.01e-05	3.54e-05	0.0
186	1	-0.10	0.06	-0.12	1.98e-04	-3.09e-04	0.0
186	5	-4.59e-03	0.08	-0.04	8.48e-05	9.26e-05	0.0
186	16	4.92e-03	0.15	0.02	-1.39e-04	8.21e-05	0.0
186	18	-0.14	0.05	-0.03	2.99e-05	-1.45e-04	0.0
186	19	-0.14	0.05	-0.03	2.89e-05	-1.44e-04	0.0
186	40	-0.01	0.12	9.62e-03	-9.04e-05	4.28e-05	0.0
186	42	-0.09	0.06	-0.02	-1.81e-06	-7.83e-05	0.0
186	58	-0.07	0.05	-0.08	1.45e-04	-2.27e-04	0.0
186	61	-0.01	0.06	-0.02	3.74e-05	5.23e-05	0.0
186	62	-0.06	0.06	-0.06	1.00e-04	-1.71e-04	0.0
186	64	-0.01	0.06	-0.02	3.74e-05	5.23e-05	0.0
186	65	-0.03	0.08	-1.78e-03	-3.52e-05	-1.82e-06	0.0
187	1	-0.11	0.07	-0.15	2.96e-04	2.73e-05	0.0
187	5	-0.02	0.09	-0.04	1.58e-04	2.45e-04	0.0
187	16	-5.54e-03	0.16	0.04	-7.27e-05	1.84e-04	0.0
187	19	-0.14	0.06	-0.05	1.09e-04	-9.46e-05	0.0
187	25	0.06	0.12	0.05	-7.12e-05	2.33e-04	0.0
187	40	-0.02	0.13	0.02	-3.03e-05	1.29e-04	0.0
187	42	-0.09	0.07	-0.03	6.56e-05	-1.37e-05	0.0
187	48	0.01	0.11	0.03	-2.50e-05	1.57e-04	0.0
187	58	-0.08	0.05	-0.11	2.17e-04	1.66e-05	0.0
187	61	-0.02	0.07	-0.02	9.13e-05	1.51e-04	0.0
187	62	-0.07	0.06	-0.08	1.68e-04	3.03e-05	0.0
187	64	-0.02	0.07	-0.02	9.13e-05	1.51e-04	0.0
187	65	-0.04	0.09	1.61e-03	1.99e-05	7.12e-05	0.0
188	1	-0.11	0.06	-0.14	2.54e-04	-3.52e-04	0.0
188	5	-0.02	0.08	-0.06	1.69e-04	9.57e-05	0.0
188	16	-5.84e-03	0.15	0.03	-6.87e-05	8.39e-05	0.0
188	18	-0.14	0.05	-0.04	9.20e-05	-1.73e-04	0.0
188	19	-0.14	0.05	-0.04	8.93e-05	-1.71e-04	0.0
188	40	-0.02	0.12	0.02	-2.94e-05	4.02e-05	0.0
188	42	-0.09	0.06	-0.02	5.50e-05	-9.54e-05	0.0
188	58	-0.08	0.05	-0.10	1.86e-04	-2.59e-04	0.0
188	61	-0.02	0.06	-0.03	9.70e-05	5.22e-05	0.0
188	62	-0.07	0.06	-0.08	1.44e-04	-1.97e-04	0.0
188	64	-0.02	0.06	-0.03	9.70e-05	5.22e-05	0.0
188	65	-0.04	0.08	-1.09e-03	1.79e-05	-9.08e-06	0.0
189	1	-0.12	0.08	-0.18	5.04e-04	9.30e-06	0.0
189	5	-0.03	0.10	-0.04	2.76e-04	2.42e-04	0.0
189	16	-0.01	0.17	0.06	7.45e-05	1.78e-04	0.0
189	19	-0.15	0.06	-0.07	2.15e-04	-1.21e-04	0.0
189	25	0.05	0.14	0.08	0.0	2.41e-04	0.0
189	40	-0.03	0.14	0.03	8.78e-05	1.21e-04	0.0
189	42	-0.10	0.08	-0.04	1.64e-04	-3.03e-05	0.0
189	48	1.92e-03	0.12	0.04	5.59e-05	1.56e-04	0.0
189	58	-0.09	0.06	-0.13	3.70e-04	2.89e-06	0.0
189	61	-0.03	0.08	-0.02	1.78e-04	1.47e-04	0.0
189	62	-0.08	0.07	-0.10	3.04e-04	1.77e-05	0.0
189	64	-0.03	0.08	-0.02	1.78e-04	1.47e-04	0.0
189	65	-0.05	0.10	2.28e-03	1.09e-04	6.22e-05	0.0
190	1	-0.12	0.07	-0.18	2.94e-04	-1.14e-04	0.0
190	5	-0.03	0.09	-0.05	2.04e-04	1.93e-04	0.0
190	16	-0.01	0.16	0.04	1.31e-05	1.40e-04	0.0
190	18	-0.15	0.06	-0.06	1.62e-04	-1.45e-04	0.0
190	19	-0.15	0.06	-0.06	1.59e-04	-1.48e-04	0.0
190	40	-0.03	0.13	0.02	3.65e-05	8.81e-05	0.0
190	42	-0.10	0.07	-0.03	1.13e-04	-5.86e-05	0.0
190	58	-0.09	0.05	-0.13	2.16e-04	-8.70e-05	0.0

190	61	-0.03	0.07	-0.03	1.29e-04	1.14e-04	0.0
190	62	-0.08	0.06	-0.10	1.79e-04	-5.67e-05	0.0
190	64	-0.03	0.07	-0.03	1.29e-04	1.14e-04	0.0
190	65	-0.05	0.09	-1.89e-03	6.67e-05	3.41e-05	0.0
191	1	-0.13	0.07	-0.19	9.40e-05	-2.12e-04	0.0
191	5	-0.04	0.09	-0.07	1.45e-04	1.54e-04	0.0
191	16	-0.02	0.16	0.04	2.08e-05	9.94e-05	0.0
191	18	-0.15	0.06	-0.07	1.47e-04	-1.88e-04	0.0
191	19	-0.15	0.06	-0.07	1.47e-04	-1.90e-04	0.0
191	40	-0.04	0.13	0.02	3.69e-05	5.41e-05	0.0
191	42	-0.11	0.07	-0.04	1.00e-04	-9.42e-05	0.0
191	58	-0.09	0.06	-0.14	7.05e-05	-1.58e-04	0.0
191	61	-0.03	0.07	-0.04	9.50e-05	8.63e-05	0.0
191	62	-0.09	0.06	-0.11	6.69e-05	-1.17e-04	0.0
191	64	-0.03	0.07	-0.04	9.50e-05	8.63e-05	0.0
191	65	-0.06	0.09	-6.54e-03	5.60e-05	6.15e-06	0.0
192	1	-0.12	0.06	-0.16	2.09e-04	-3.42e-04	0.0
192	5	-0.03	0.08	-0.07	1.83e-04	1.19e-04	0.0
192	17	-0.01	0.15	0.04	-2.68e-05	8.13e-05	0.0
192	18	-0.15	0.05	-0.05	1.16e-04	-1.87e-04	0.0
192	19	-0.15	0.05	-0.04	1.14e-04	-1.87e-04	0.0
192	41	-0.03	0.12	0.02	3.97e-06	3.82e-05	0.0
192	42	-0.10	0.06	-0.03	7.82e-05	-1.03e-04	0.0
192	58	-0.09	0.05	-0.11	1.53e-04	-2.52e-04	0.0
192	61	-0.03	0.06	-0.04	1.11e-04	6.47e-05	0.0
192	62	-0.08	0.06	-0.09	1.25e-04	-1.92e-04	0.0
192	64	-0.03	0.06	-0.04	1.11e-04	6.47e-05	0.0
192	65	-0.05	0.08	-3.20e-03	4.11e-05	-9.33e-06	0.0
193	1	-0.14	0.09	-0.21	-1.16e-04	-2.30e-04	0.0
193	5	-0.05	0.10	-0.06	8.98e-05	1.21e-04	0.0
193	16	-0.03	0.17	0.05	1.54e-05	6.55e-05	0.0
193	18	-0.16	0.06	-0.10	1.44e-04	-2.28e-04	0.0
193	19	-0.16	0.06	-0.10	1.46e-04	-2.30e-04	0.0
193	40	-0.05	0.14	0.02	3.38e-05	2.58e-05	0.0
193	42	-0.11	0.08	-0.06	9.45e-05	-1.26e-04	0.0
193	58	-0.10	0.06	-0.15	-8.36e-05	-1.70e-04	0.0
193	61	-0.04	0.08	-0.04	6.39e-05	6.29e-05	0.0
193	62	-0.09	0.07	-0.12	-5.06e-05	-1.32e-04	0.0
193	64	-0.04	0.08	-0.04	6.39e-05	6.29e-05	0.0
193	65	-0.06	0.10	-0.01	4.83e-05	-1.71e-05	0.0
194	1	-0.14	0.08	-0.19	-1.36e-04	-2.51e-04	0.0
194	5	-0.05	0.09	-0.07	5.35e-05	1.18e-04	0.0
194	16	-0.03	0.16	0.04	-2.31e-05	6.09e-05	0.0
194	18	-0.16	0.06	-0.08	1.00e-04	-2.31e-04	0.0
194	19	-0.16	0.06	-0.08	1.03e-04	-2.33e-04	0.0
194	40	-0.05	0.13	0.02	0.0	2.10e-05	0.0
194	42	-0.11	0.07	-0.05	5.90e-05	-1.29e-04	0.0
194	58	-0.10	0.06	-0.14	-9.69e-05	-1.86e-04	0.0
194	61	-0.04	0.07	-0.04	3.78e-05	6.02e-05	0.0
194	62	-0.09	0.06	-0.10	-6.75e-05	-1.45e-04	0.0
194	64	-0.04	0.07	-0.04	3.78e-05	6.02e-05	0.0
194	65	-0.06	0.09	-9.26e-03	2.05e-05	-2.13e-05	0.0
195	1	-0.14	0.06	-0.16	-1.09e-04	-2.96e-04	0.0
195	5	-0.05	0.08	-0.08	2.07e-05	1.15e-04	0.0
195	17	-0.03	0.15	0.04	-5.19e-05	4.71e-05	0.0
195	18	-0.16	0.05	-0.06	6.14e-05	-2.40e-04	0.0
195	19	-0.16	0.05	-0.06	6.43e-05	-2.41e-04	0.0
195	41	-0.05	0.12	0.02	-2.59e-05	1.02e-05	0.0
195	42	-0.11	0.06	-0.04	2.86e-05	-1.38e-04	0.0
195	58	-0.10	0.05	-0.12	-7.64e-05	-2.19e-04	0.0
195	61	-0.04	0.06	-0.05	1.46e-05	5.72e-05	0.0
195	62	-0.09	0.06	-0.09	-5.77e-05	-1.72e-04	0.0
195	64	-0.04	0.06	-0.05	1.46e-05	5.72e-05	0.0
195	65	-0.06	0.08	-7.00e-03	-1.84e-06	-2.98e-05	0.0
196	1	-0.08	0.06	-0.08	1.11e-04	-3.55e-04	0.0
196	5	0.01	0.07	-0.04	1.47e-05	5.09e-05	0.0
196	17	0.02	0.15	-1.34e-03	-1.80e-04	0.0	0.0
196	18	-0.13	0.05	-0.03	-2.56e-05	-1.60e-04	0.0
196	19	-0.13	0.05	-0.02	-2.54e-05	-1.57e-04	0.0
196	41	8.03e-04	0.11	-5.17e-03	-1.29e-04	-1.99e-05	0.0
196	42	-0.08	0.06	-0.02	-4.82e-05	-1.05e-04	0.0
196	58	-0.06	0.04	-0.06	8.19e-05	-2.59e-04	0.0
196	61	2.26e-03	0.06	-0.02	-1.02e-05	2.07e-05	0.0
196	62	-0.05	0.05	-0.04	4.31e-05	-2.05e-04	0.0
196	64	2.26e-03	0.06	-0.02	-1.02e-05	2.07e-05	0.0

196	65	-0.02	0.08	-8.71e-03	-7.33e-05	-4.22e-05	0.0
197	1	-0.14	0.03	-0.09	-1.19e-05	-2.33e-04	0.0
197	5	-0.05	0.04	-0.13	-2.29e-04	1.57e-04	0.0
197	15	-0.09	0.12	0.04	-1.23e-04	-8.35e-05	0.0
197	17	-0.03	0.12	0.03	-1.30e-04	4.30e-05	0.0
197	19	-0.16	0.03	0.01	-2.39e-05	-2.42e-04	0.0
197	39	-0.08	0.09	0.02	-9.08e-05	-5.58e-05	0.0
197	41	-0.05	0.09	0.02	-9.40e-05	9.19e-06	0.0
197	42	-0.11	0.04	4.77e-03	-4.25e-05	-1.38e-04	0.0
197	58	-0.10	0.02	-0.06	-3.92e-06	-1.71e-04	0.0
197	61	-0.04	0.04	-0.07	-1.38e-04	8.10e-05	0.0
197	62	-0.09	0.03	-0.05	-1.74e-05	-1.36e-04	0.0
197	64	-0.04	0.04	-0.07	-1.38e-04	8.10e-05	0.0
197	65	-0.06	0.05	1.45e-03	-5.80e-05	-2.83e-05	0.0
198	1	-0.09	0.06	-0.09	1.28e-04	-3.70e-04	0.0
198	5	3.92e-03	0.07	-0.04	3.51e-05	7.17e-05	0.0
198	17	0.01	0.15	9.46e-03	-1.47e-04	4.59e-05	0.0
198	18	-0.13	0.05	-0.03	-1.55e-05	-1.69e-04	0.0
198	19	-0.13	0.05	-0.02	-1.53e-05	-1.67e-04	0.0
198	41	-6.17e-03	0.11	2.61e-03	-1.05e-04	1.21e-05	0.0
198	42	-0.08	0.06	-0.02	-3.64e-05	-1.02e-04	0.0
198	58	-0.07	0.04	-0.06	9.42e-05	-2.71e-04	0.0
198	61	-4.23e-03	0.06	-0.02	4.52e-06	3.60e-05	0.0
198	62	-0.06	0.05	-0.05	5.59e-05	-2.09e-04	0.0
198	64	-4.23e-03	0.06	-0.02	4.52e-06	3.60e-05	0.0
198	65	-0.03	0.08	-4.26e-03	-5.90e-05	-2.57e-05	0.0
199	1	-0.14	0.02	-0.07	-1.19e-05	-2.47e-04	0.0
199	5	-0.05	0.03	-0.14	-2.47e-04	5.28e-05	0.0
199	17	-0.03	0.11	0.02	-1.47e-04	3.27e-05	0.0
199	19	-0.16	0.02	0.03	-3.85e-05	-2.52e-04	0.0
199	23	-0.16	0.06	0.05	-8.69e-05	-2.48e-04	0.0
199	39	-0.08	0.08	0.03	-1.07e-04	-6.55e-05	0.0
199	42	-0.11	0.04	0.02	-5.41e-05	-1.48e-04	0.0
199	46	-0.11	0.06	0.03	-7.88e-05	-1.45e-04	0.0
199	58	-0.10	0.01	-0.05	-4.59e-06	-1.81e-04	0.0
199	61	-0.04	0.03	-0.07	-1.51e-04	2.15e-05	0.0
199	62	-0.09	0.02	-0.03	-2.02e-05	-1.45e-04	0.0
199	64	-0.04	0.03	-0.07	-1.51e-04	2.15e-05	0.0
199	65	-0.06	0.05	4.34e-03	-6.71e-05	-3.78e-05	0.0
200	1	-0.10	0.06	-0.10	1.55e-04	-4.35e-04	0.0
200	5	-4.82e-03	0.07	-0.05	6.97e-05	5.78e-05	0.0
200	17	4.29e-03	0.15	0.02	-1.38e-04	7.44e-05	0.0
200	18	-0.14	0.05	-0.03	1.29e-05	-1.83e-04	0.0
200	19	-0.14	0.05	-0.02	1.23e-05	-1.80e-04	0.0
200	41	-0.01	0.11	9.20e-03	-9.31e-05	2.69e-05	0.0
200	42	-0.09	0.06	-0.01	-1.40e-05	-1.10e-04	0.0
200	58	-0.07	0.04	-0.07	1.14e-04	-3.18e-04	0.0
200	61	-0.01	0.06	-0.02	2.75e-05	2.87e-05	0.0
200	62	-0.06	0.05	-0.05	7.48e-05	-2.45e-04	0.0
200	64	-0.01	0.06	-0.02	2.75e-05	2.87e-05	0.0
200	65	-0.03	0.08	-8.52e-04	-4.25e-05	-2.62e-05	0.0
201	1	-0.11	0.06	-0.12	2.50e-04	-5.03e-04	0.0
201	5	-0.02	0.07	-0.06	1.83e-04	2.61e-05	0.0
201	17	-6.46e-03	0.15	0.03	-8.29e-05	3.01e-05	0.0
201	19	-0.14	0.05	-0.03	7.60e-05	-2.17e-04	0.0
201	25	0.06	0.11	0.03	-5.26e-05	1.12e-04	0.0
201	41	-0.02	0.12	0.02	-3.84e-05	-9.50e-06	0.0
201	42	-0.09	0.06	-0.02	4.69e-05	-1.42e-04	0.0
201	58	-0.08	0.04	-0.08	1.83e-04	-3.68e-04	0.0
201	61	-0.02	0.06	-0.03	1.03e-04	4.22e-06	0.0
201	62	-0.07	0.05	-0.06	1.41e-04	-2.90e-04	0.0
201	64	-0.02	0.06	-0.03	1.03e-04	4.22e-06	0.0
201	65	-0.04	0.08	5.65e-04	1.34e-05	-5.43e-05	0.0
202	1	-0.13	0.06	-0.15	8.51e-05	-3.53e-04	0.0
202	5	-0.04	0.07	-0.09	1.19e-04	1.46e-04	0.0
202	17	-0.02	0.15	0.03	-2.43e-05	5.70e-05	0.0
202	18	-0.15	0.05	-0.04	8.66e-05	-2.21e-04	0.0
202	19	-0.15	0.05	-0.04	8.57e-05	-2.22e-04	0.0
202	34	-0.07	0.04	-0.03	5.44e-05	-6.51e-05	0.0
202	41	-0.04	0.12	0.02	0.0	1.88e-05	0.0
202	42	-0.11	0.06	-0.03	5.60e-05	-1.26e-04	0.0
202	58	-0.09	0.04	-0.11	6.43e-05	-2.61e-04	0.0
202	61	-0.03	0.06	-0.05	7.39e-05	7.65e-05	0.0
202	62	-0.09	0.05	-0.08	5.50e-05	-2.01e-04	0.0
202	64	-0.03	0.06	-0.05	7.39e-05	7.65e-05	0.0

202	65	-0.06	0.08	-4.87e-03	2.68e-05	-2.31e-05	0.0
203	1	-0.14	8.72e-03	-0.04	2.63e-05	-2.69e-04	0.0
203	5	-0.05	0.02	-0.14	-1.29e-04	-4.30e-05	0.0
203	15	-0.09	0.10	0.05	-1.49e-04	-1.02e-04	0.0
203	19	-0.16	0.02	0.06	-3.36e-05	-2.59e-04	0.0
203	23	-0.16	0.06	0.07	-8.79e-05	-2.55e-04	0.0
203	39	-0.08	0.07	0.03	-1.05e-04	-7.20e-05	0.0
203	42	-0.11	0.03	0.03	-4.63e-05	-1.55e-04	0.0
203	46	-0.11	0.05	0.04	-7.45e-05	-1.52e-04	0.0
203	58	-0.10	6.47e-03	-0.03	2.19e-05	-1.96e-04	0.0
203	61	-0.04	0.02	-0.07	-8.42e-05	-3.26e-05	0.0
203	62	-0.09	0.01	-0.02	1.89e-06	-1.58e-04	0.0
203	64	-0.04	0.02	-0.07	-8.42e-05	-3.26e-05	0.0
203	65	-0.06	0.04	7.89e-03	-5.80e-05	-4.41e-05	0.0
204	1	-0.08	0.04	-0.04	9.17e-05	-7.87e-05	0.0
204	5	0.01	0.05	-0.07	1.10e-04	2.80e-04	0.0
204	17	0.02	0.13	-0.01	-1.48e-04	1.47e-04	0.0
204	19	-0.13	0.03	2.37e-03	-4.68e-06	-8.04e-05	0.0
204	24	0.09	0.08	-0.02	-9.04e-05	2.00e-04	0.0
204	41	2.28e-04	0.10	-0.01	-1.00e-04	1.05e-04	0.0
204	42	-0.08	0.05	-4.86e-03	-2.50e-05	-1.14e-05	0.0
204	48	0.04	0.07	-0.01	-6.99e-05	1.32e-04	0.0
204	58	-0.06	0.03	-0.03	6.71e-05	-5.83e-05	0.0
204	61	1.61e-03	0.04	-0.04	4.83e-05	1.70e-04	0.0
204	62	-0.05	0.03	-0.02	3.85e-05	-2.88e-05	0.0
204	64	1.61e-03	0.04	-0.04	4.83e-05	1.70e-04	0.0
204	65	-0.02	0.06	-9.09e-03	-4.76e-05	5.97e-05	0.0
205	1	-0.13	0.04	-0.10	1.02e-04	-2.16e-04	0.0
205	5	-0.04	0.05	-0.13	-1.98e-05	2.82e-04	0.0
205	12	-0.03	-6.44e-03	-0.03	3.88e-05	4.09e-05	0.0
205	17	-0.02	0.13	0.02	-7.97e-05	7.79e-05	0.0
205	19	-0.15	0.03	-2.23e-03	1.88e-05	-2.08e-04	0.0
205	36	-0.05	0.02	-0.02	1.46e-05	2.01e-05	0.0
205	41	-0.04	0.10	0.01	-5.01e-05	4.06e-05	0.0
205	42	-0.11	0.05	-4.55e-03	2.29e-06	-1.07e-04	0.0
205	58	-0.09	0.03	-0.07	7.68e-05	-1.60e-04	0.0
205	61	-0.03	0.04	-0.07	-1.37e-05	1.57e-04	0.0
205	62	-0.09	0.04	-0.05	5.38e-05	-1.20e-04	0.0
205	64	-0.03	0.04	-0.07	-1.37e-05	1.57e-04	0.0
205	65	-0.06	0.06	-2.59e-03	-1.54e-05	0.0	0.0
206	1	-0.09	0.02	-0.03	1.37e-04	-1.76e-04	0.0
206	5	2.34e-03	0.03	-0.11	2.98e-04	9.54e-05	0.0
206	17	0.01	0.11	-0.02	-1.17e-04	9.85e-05	0.0
206	19	-0.13	0.02	0.02	-3.05e-05	-2.11e-04	0.0
206	24	0.08	0.07	-0.05	-2.74e-05	2.16e-04	0.0
206	39	-0.04	0.08	-8.11e-03	-8.46e-05	-9.75e-06	0.0
206	42	-0.08	0.03	4.05e-03	-2.84e-05	-1.07e-04	0.0
206	48	0.03	0.06	-0.03	-2.86e-05	1.13e-04	0.0
206	58	-0.07	0.01	-0.02	9.83e-05	-1.29e-04	0.0
206	61	-5.39e-03	0.03	-0.06	1.56e-04	5.51e-05	0.0
206	62	-0.06	0.02	-0.02	6.65e-05	-9.58e-05	0.0
206	64	-5.39e-03	0.03	-0.06	1.56e-04	5.51e-05	0.0
206	65	-0.03	0.04	-0.01	-2.90e-05	2.92e-06	0.0
207	1	-0.09	7.52e-03	-0.01	1.15e-04	-2.36e-04	0.0
207	5	2.08e-03	0.02	-0.12	1.91e-04	4.35e-05	0.0
207	15	-0.05	0.10	-6.57e-04	-1.42e-04	-5.24e-05	0.0
207	19	-0.13	0.02	0.04	-1.77e-05	-2.84e-04	0.0
207	24	0.08	0.05	-0.07	-6.83e-05	2.48e-04	0.0
207	39	-0.04	0.07	-6.06e-03	-9.53e-05	-3.50e-05	0.0
207	42	-0.08	0.03	0.02	-2.87e-05	-1.55e-04	0.0
207	48	0.03	0.04	-0.04	-5.65e-05	1.19e-04	0.0
207	58	-0.07	5.59e-03	-6.92e-03	8.28e-05	-1.73e-04	0.0
207	61	-5.59e-03	0.02	-0.07	9.36e-05	2.12e-05	0.0
207	62	-0.06	0.01	-7.88e-03	5.14e-05	-1.34e-04	0.0
207	64	-5.59e-03	0.02	-0.07	9.36e-05	2.12e-05	0.0
207	65	-0.03	0.04	-0.01	-4.30e-05	-1.79e-05	0.0
208	1	-0.10	0.02	-0.04	1.51e-04	-1.84e-04	0.0
208	5	-6.30e-03	0.03	-0.13	2.89e-04	8.19e-05	0.0
208	17	3.45e-03	0.11	-0.02	-1.04e-04	8.92e-05	0.0
208	19	-0.14	0.02	0.02	-2.23e-05	-2.11e-04	0.0
208	20	0.07	0.03	-0.05	3.08e-05	1.85e-04	0.0
208	39	-0.05	0.08	-3.05e-03	-7.33e-05	-1.58e-05	0.0
208	42	-0.09	0.03	5.59e-03	-2.06e-05	-1.10e-04	0.0
208	44	0.02	0.03	-0.03	5.66e-06	9.33e-05	0.0
208	58	-0.07	0.01	-0.03	1.08e-04	-1.34e-04	0.0

208	61	-0.01	0.03	-0.07	1.52e-04	4.62e-05	0.0
208	62	-0.06	0.02	-0.02	7.56e-05	-1.01e-04	0.0
208	64	-0.01	0.03	-0.07	1.52e-04	4.62e-05	0.0
208	65	-0.03	0.04	-9.94e-03	-2.20e-05	-3.05e-06	0.0
209	1	-0.09	0.05	-0.06	1.02e-04	-2.54e-04	0.0
209	3	-0.05	0.05	-0.07	1.52e-04	-1.95e-05	0.0
209	5	3.50e-03	0.06	-0.05	8.01e-05	2.08e-04	0.0
209	17	0.01	0.14	3.94e-03	-8.39e-05	8.48e-05	0.0
209	19	-0.13	0.04	-7.72e-03	-1.85e-05	-1.49e-04	0.0
209	26	-0.06	0.04	-0.01	-2.25e-05	-4.39e-05	0.0
209	41	-6.45e-03	0.11	1.47e-04	-6.16e-05	4.88e-05	0.0
209	42	-0.08	0.05	-7.31e-03	-2.77e-05	-7.40e-05	0.0
209	58	-0.07	0.03	-0.04	7.50e-05	-1.87e-04	0.0
209	61	-4.54e-03	0.05	-0.03	3.50e-05	1.19e-04	0.0
209	62	-0.06	0.04	-0.03	4.70e-05	-1.38e-04	0.0
209	63	-0.03	0.05	-0.04	7.49e-05	-7.24e-06	0.0
209	64	-4.54e-03	0.05	-0.03	3.50e-05	1.19e-04	0.0
209	65	-0.03	0.07	-3.32e-03	-3.70e-05	8.80e-06	0.0
210	1	-0.09	0.04	-0.05	1.01e-04	-7.85e-05	0.0
210	5	3.07e-03	0.05	-0.08	1.46e-04	3.20e-04	0.0
210	17	0.01	0.13	-5.56e-03	-1.16e-04	1.28e-04	0.0
210	19	-0.13	0.03	2.98e-03	-1.73e-05	-9.54e-05	0.0
210	20	0.07	0.04	-0.02	-1.49e-05	1.86e-04	0.0
210	41	-6.71e-03	0.10	-6.23e-03	-7.93e-05	9.35e-05	0.0
210	42	-0.08	0.05	-3.20e-03	-2.74e-05	-2.11e-05	0.0
210	44	0.03	0.05	-0.01	-2.63e-05	1.23e-04	0.0
210	58	-0.07	0.03	-0.03	7.34e-05	-5.85e-05	0.0
210	61	-4.86e-03	0.04	-0.04	7.04e-05	1.91e-04	0.0
210	62	-0.06	0.03	-0.03	4.52e-05	-3.01e-05	0.0
210	64	-4.86e-03	0.04	-0.04	7.04e-05	1.91e-04	0.0
210	65	-0.03	0.06	-6.24e-03	-3.91e-05	5.53e-05	0.0
211	1	-0.09	0.03	-0.04	1.19e-04	-8.04e-05	0.0
211	5	2.72e-03	0.04	-0.10	2.22e-04	2.50e-04	0.0
211	17	0.01	0.12	-0.01	-1.23e-04	1.18e-04	0.0
211	19	-0.13	0.03	8.61e-03	-2.25e-05	-1.05e-04	0.0
211	24	0.08	0.08	-0.03	-4.61e-05	1.96e-04	0.0
211	41	-6.90e-03	0.09	-0.01	-8.08e-05	8.32e-05	0.0
211	42	-0.08	0.04	-1.93e-03	-2.73e-05	-3.08e-05	0.0
211	48	0.03	0.07	-0.02	-4.07e-05	1.23e-04	0.0
211	58	-0.07	0.02	-0.03	8.60e-05	-5.90e-05	0.0
211	61	-5.11e-03	0.04	-0.05	1.13e-04	1.50e-04	0.0
211	62	-0.06	0.03	-0.02	5.59e-05	-3.29e-05	0.0
211	64	-5.11e-03	0.04	-0.05	1.13e-04	1.50e-04	0.0
211	65	-0.03	0.05	-9.42e-03	-3.43e-05	4.55e-05	0.0
212	1	-0.10	0.04	-0.05	1.20e-04	-3.53e-05	0.0
212	5	-5.66e-03	0.05	-0.09	1.65e-04	4.27e-04	0.0
212	17	3.78e-03	0.13	2.15e-03	-1.18e-04	1.22e-04	0.0
212	19	-0.14	0.03	4.38e-03	-1.86e-05	-7.73e-05	0.0
212	20	0.07	0.04	-0.02	-4.17e-06	2.11e-04	0.0
212	41	-0.01	0.10	-9.46e-04	-7.94e-05	9.75e-05	0.0
212	42	-0.09	0.05	-1.27e-03	-2.61e-05	-3.58e-06	0.0
212	44	0.02	0.05	-9.27e-03	-1.93e-05	1.42e-04	0.0
212	58	-0.07	0.03	-0.04	8.74e-05	-2.80e-05	0.0
212	61	-0.01	0.04	-0.05	8.10e-05	2.53e-04	0.0
212	62	-0.06	0.03	-0.03	5.65e-05	-3.41e-06	0.0
212	64	-0.01	0.04	-0.05	8.10e-05	2.53e-04	0.0
212	65	-0.03	0.06	-3.67e-03	-3.62e-05	7.04e-05	0.0
213	1	-0.12	0.02	-0.06	8.12e-05	-2.41e-04	0.0
213	5	-0.03	0.03	-0.16	8.08e-06	1.85e-05	0.0
213	17	-0.02	0.11	3.54e-03	-1.25e-04	5.24e-05	0.0
213	19	-0.15	0.02	0.03	-2.74e-05	-2.37e-04	0.0
213	20	0.04	0.03	-0.05	-1.33e-05	1.63e-04	0.0
213	39	-0.06	0.08	0.01	-9.03e-05	-4.79e-05	0.0
213	42	-0.10	0.03	9.90e-03	-3.52e-05	-1.37e-04	0.0
213	44	-1.11e-03	0.03	-0.03	-2.77e-05	6.89e-05	0.0
213	58	-0.09	0.01	-0.04	6.04e-05	-1.76e-04	0.0
213	61	-0.03	0.03	-0.09	-6.56e-06	4.95e-06	0.0
213	62	-0.08	0.02	-0.03	3.41e-05	-1.39e-04	0.0
213	64	-0.03	0.03	-0.09	-6.56e-06	4.95e-06	0.0
213	65	-0.05	0.05	-4.73e-03	-4.48e-05	-3.00e-05	0.0
214	1	-0.11	0.04	-0.07	2.07e-04	-1.18e-05	0.0
214	5	-0.02	0.05	-0.11	2.03e-04	5.27e-04	0.0
214	12	-0.02	-6.73e-03	-0.02	8.50e-05	1.13e-04	0.0
214	17	-6.91e-03	0.13	0.01	-9.56e-05	1.74e-04	0.0
214	19	-0.14	0.03	3.81e-03	3.12e-05	-8.78e-05	0.0



214	36	-0.03	0.02	-0.01	4.50e-05	1.03e-04	0.0
214	41	-0.02	0.10	5.32e-03	-5.28e-05	1.35e-04	0.0
214	42	-0.09	0.05	-8.21e-04	1.70e-05	2.31e-06	0.0
214	58	-0.08	0.03	-0.05	1.50e-04	-1.17e-05	0.0
214	61	-0.02	0.04	-0.06	1.10e-04	3.14e-04	0.0
214	62	-0.07	0.03	-0.04	1.12e-04	1.46e-05	0.0
214	64	-0.02	0.04	-0.06	1.10e-04	3.14e-04	0.0
214	65	-0.04	0.06	-1.83e-03	-2.55e-06	9.33e-05	0.0
215	1	-0.12	0.06	-0.14	2.46e-04	-4.25e-04	0.0
215	5	-0.03	0.07	-0.07	2.20e-04	1.03e-04	0.0
215	17	-0.02	0.15	0.03	-2.16e-05	4.65e-05	0.0
215	18	-0.15	0.05	-0.04	1.12e-04	-2.18e-04	0.0
215	19	-0.15	0.05	-0.03	1.08e-04	-2.17e-04	0.0
215	34	-0.07	0.04	-0.02	8.69e-05	-7.73e-05	0.0
215	41	-0.03	0.12	0.02	9.94e-06	8.18e-06	0.0
215	42	-0.10	0.06	-0.02	8.00e-05	-1.31e-04	0.0
215	58	-0.09	0.04	-0.10	1.80e-04	-3.12e-04	0.0
215	61	-0.03	0.06	-0.04	1.33e-04	5.06e-05	0.0
215	62	-0.08	0.05	-0.07	1.47e-04	-2.43e-04	0.0
215	64	-0.03	0.06	-0.04	1.33e-04	5.06e-05	0.0
215	65	-0.05	0.08	-1.85e-03	4.84e-05	-3.46e-05	0.0
216	1	-0.10	-3.59e-03	2.80e-03	8.22e-05	-2.08e-04	-1.27e-04
216	2	-0.09	-0.01	8.20e-03	9.92e-05	-2.09e-04	-9.12e-05
216	5	-7.11e-03	6.15e-03	-0.13	6.27e-05	2.84e-05	-1.32e-04
216	15	-0.06	0.09	0.01	-1.48e-04	-2.42e-05	-1.06e-04
216	19	-0.14	0.01	0.07	-1.67e-05	-2.43e-04	-7.50e-05
216	24	0.07	0.04	-0.08	-8.35e-05	2.70e-04	-1.29e-04
216	39	-0.05	0.06	3.11e-03	-1.02e-04	-5.21e-06	-1.01e-04
216	42	-0.09	0.02	0.03	-3.24e-05	-1.19e-04	-8.30e-05
216	48	0.02	0.03	-0.05	-6.75e-05	1.46e-04	-1.21e-04
216	58	-0.07	-2.63e-03	4.37e-03	6.05e-05	-1.51e-04	-9.40e-05
216	61	-0.01	0.01	-0.07	2.20e-05	2.15e-05	-9.86e-05
216	62	-0.06	4.84e-03	1.63e-03	3.28e-05	-1.10e-04	-9.60e-05
216	64	-0.01	0.01	-0.07	2.20e-05	2.15e-05	-9.86e-05
216	65	-0.03	0.03	-6.59e-03	-5.01e-05	1.38e-05	-1.02e-04
217	1	-0.11	-3.18e-03	-4.40e-03	7.52e-05	-2.16e-04	-1.21e-04
217	2	-0.10	-0.01	-6.85e-04	9.32e-05	-2.16e-04	-8.70e-05
217	5	-0.02	6.62e-03	-0.13	4.40e-05	-4.61e-05	-1.29e-04
217	15	-0.07	0.09	0.03	-1.51e-04	-2.10e-05	-9.90e-05
217	19	-0.14	0.01	0.07	-2.24e-05	-2.20e-04	-6.78e-05
217	20	0.05	4.56e-03	-0.08	-2.29e-05	2.40e-04	-1.21e-04
217	39	-0.06	0.06	0.01	-1.04e-04	-1.10e-06	-9.55e-05
217	42	-0.10	0.02	0.03	-3.65e-05	-1.06e-04	-7.70e-05
217	44	6.76e-03	0.01	-0.04	-3.66e-05	1.33e-04	-1.15e-04
217	58	-0.08	-2.33e-03	-9.50e-04	5.55e-05	-1.55e-04	-8.96e-05
217	61	-0.02	0.01	-0.07	1.13e-05	-1.77e-05	-9.58e-05
217	62	-0.07	5.13e-03	-1.14e-03	2.86e-05	-1.12e-04	-9.16e-05
217	64	-0.02	0.01	-0.07	1.13e-05	-1.77e-05	-9.58e-05
217	65	-0.04	0.03	-1.70e-03	-5.22e-05	1.85e-05	-9.73e-05
218	1	-0.12	-2.76e-03	-9.75e-03	6.98e-05	-2.20e-04	-1.17e-04
218	2	-0.10	-0.01	-7.43e-03	8.88e-05	-2.19e-04	-8.44e-05
218	5	-0.03	7.10e-03	-0.13	3.06e-05	-5.87e-05	-1.28e-04
218	15	-0.07	0.09	0.04	-1.54e-04	-2.83e-05	-9.49e-05
218	19	-0.15	0.01	0.07	-2.71e-05	-2.13e-04	-6.23e-05
218	23	-0.15	0.05	0.08	-8.65e-05	-2.00e-04	-6.80e-05
218	39	-0.06	0.06	0.02	-1.07e-04	-6.31e-06	-9.19e-05
218	42	-0.10	0.02	0.04	-4.00e-05	-1.04e-04	-7.27e-05
218	46	-0.10	0.04	0.04	-7.14e-05	-9.63e-05	-7.50e-05
218	58	-0.09	-2.02e-03	-4.91e-03	5.16e-05	-1.58e-04	-8.69e-05
218	61	-0.03	0.01	-0.07	3.36e-06	-2.54e-05	-9.45e-05
218	62	-0.08	5.43e-03	-3.11e-03	2.51e-05	-1.15e-04	-8.87e-05
218	64	-0.03	0.01	-0.07	3.36e-06	-2.54e-05	-9.45e-05
218	65	-0.05	0.03	2.29e-03	-5.45e-05	1.51e-05	-9.42e-05
219	1	-0.13	-2.35e-03	-0.01	6.33e-05	-2.21e-04	-1.12e-04
219	2	-0.11	-0.01	-0.01	8.34e-05	-2.17e-04	-8.01e-05
219	5	-0.04	7.54e-03	-0.13	1.53e-05	-2.61e-05	-1.26e-04
219	15	-0.08	0.09	0.05	-1.58e-04	-4.57e-05	-8.94e-05
219	19	-0.15	0.01	0.08	-3.19e-05	-2.18e-04	-5.50e-05
219	23	-0.15	0.05	0.09	-9.17e-05	-2.10e-04	-6.08e-05
219	39	-0.07	0.06	0.03	-1.10e-04	-2.02e-05	-8.67e-05
219	42	-0.11	0.02	0.04	-4.38e-05	-1.11e-04	-6.67e-05
219	46	-0.11	0.04	0.05	-7.53e-05	-6.91e-04	-6.91e-05
219	58	-0.10	-1.71e-03	-8.63e-03	4.70e-05	-1.60e-04	-8.25e-05
219	61	-0.04	0.01	-0.07	-5.66e-06	-1.04e-05	-9.21e-05
219	62	-0.09	5.72e-03	-4.86e-03	2.10e-05	-1.19e-04	-8.42e-05

219	64	-0.04	0.01	-0.07	-5.66e-06	-1.04e-05	-9.21e-05
219	65	-0.06	0.03	6.46e-03	-5.70e-05	4.95e-06	-8.93e-05
220	1	-0.09	-3.73e-03	8.00e-03	8.03e-05	-2.05e-04	-1.26e-04
220	2	-0.08	-0.01	0.01	9.82e-05	-2.05e-04	-9.08e-05
220	5	1.79e-03	5.96e-03	-0.12	5.98e-05	9.19e-05	-1.33e-04
220	15	-0.05	0.09	3.34e-03	-1.50e-04	-3.28e-05	-1.08e-04
220	19	-0.13	0.01	0.07	-1.65e-05	-2.60e-04	-7.50e-05
220	24	0.08	0.04	-0.09	-8.93e-05	2.69e-04	-1.28e-04
220	39	-0.04	0.06	-3.69e-03	-1.04e-04	-1.43e-05	-1.02e-04
220	42	-0.08	0.02	0.03	-3.37e-05	-1.32e-04	-8.28e-05
220	48	0.03	0.03	-0.05	-7.19e-05	1.41e-04	-1.20e-04
220	58	-0.07	-2.73e-03	8.20e-03	5.90e-05	-1.50e-04	-9.35e-05
220	61	-5.79e-03	0.01	-0.07	1.96e-05	5.34e-05	-9.93e-05
220	62	-0.06	4.75e-03	3.65e-03	3.10e-05	-1.11e-04	-9.55e-05
220	64	-5.79e-03	0.01	-0.07	1.96e-05	5.34e-05	-9.93e-05
220	65	-0.03	0.03	-0.01	-5.29e-05	4.30e-06	-1.01e-04
221	1	-0.04	0.02	3.81e-03	6.29e-05	-2.10e-04	-1.07e-04
221	5	-0.04	0.02	-0.12	1.58e-05	1.98e-04	-1.07e-04
221	14	-0.04	0.05	9.06e-03	-1.52e-04	-8.38e-05	-6.90e-05
221	22	-0.06	0.03	0.06	-7.71e-05	-3.00e-04	-6.66e-05
221	24	7.93e-04	0.02	-0.08	-9.64e-05	2.64e-04	-9.08e-05
221	38	-0.03	0.03	2.25e-03	-1.07e-04	-5.78e-05	-7.24e-05
221	46	-0.05	0.02	0.03	-6.82e-05	-1.69e-04	-6.83e-05
221	48	-0.01	0.01	-0.05	-7.77e-05	1.21e-04	-9.10e-05
221	58	-0.03	0.01	5.10e-03	4.68e-05	-1.57e-04	-7.91e-05
221	59	-0.03	0.01	2.33e-03	2.07e-05	-1.25e-04	-7.97e-05
221	61	-0.03	0.01	-0.07	-5.46e-06	1.02e-04	-7.99e-05
221	62	-0.03	0.01	2.33e-03	2.07e-05	-1.25e-04	-7.97e-05
221	64	-0.03	0.01	-0.07	-5.46e-06	1.02e-04	-7.99e-05
221	65	-0.03	0.01	-5.99e-03	-5.77e-05	-2.90e-05	-8.13e-05
222	1	-0.05	0.02	-2.76e-03	6.83e-05	-1.94e-04	-1.06e-04
222	5	-0.05	0.02	-0.13	3.00e-05	2.49e-04	-1.07e-04
222	14	-0.05	0.05	0.02	-1.50e-04	-1.09e-04	-6.94e-05
222	18	-0.07	5.64e-03	0.07	-2.26e-05	-2.23e-04	-7.20e-05
222	20	-7.64e-03	-2.23e-03	-0.08	-2.65e-05	2.51e-04	-9.17e-05
222	38	-0.04	0.03	0.01	-1.04e-04	-7.51e-05	-7.18e-05
222	42	-0.05	0.01	0.04	-3.76e-05	-1.85e-04	-7.10e-05
222	44	-0.02	2.13e-03	-0.04	-3.92e-05	1.11e-04	-9.12e-05
222	58	-0.04	0.01	2.31e-04	5.06e-05	-1.46e-04	-7.83e-05
222	59	-0.04	0.01	-3.34e-05	2.45e-05	-1.19e-04	-7.86e-05
222	61	-0.04	0.01	-0.07	3.25e-06	1.27e-04	-7.93e-05
222	62	-0.04	0.01	-3.34e-05	2.45e-05	-1.19e-04	-7.86e-05
222	64	-0.04	0.01	-0.07	3.25e-06	1.27e-04	-7.93e-05
222	65	-0.04	0.01	-8.28e-04	-5.37e-05	-3.68e-05	-7.97e-05
223	1	-0.06	0.02	-8.04e-03	7.41e-05	-1.95e-04	-1.06e-04
223	5	-0.06	0.02	-0.13	3.93e-05	2.48e-04	-1.09e-04
223	14	-0.05	0.05	0.03	-1.49e-04	-1.28e-04	-6.87e-05
223	18	-0.07	5.48e-03	0.07	-2.36e-05	-3.23e-04	-7.28e-05
223	23	-0.07	0.03	0.08	-8.28e-05	-3.31e-04	-6.82e-05
223	38	-0.05	0.03	0.02	-1.02e-04	-8.96e-05	-7.10e-05
223	42	-0.06	0.01	0.04	-3.66e-05	-1.89e-04	-7.10e-05
223	46	-0.06	0.02	0.04	-6.74e-05	-1.90e-04	-6.80e-05
223	59	-0.04	0.01	-1.97e-03	2.85e-05	-1.22e-04	-7.84e-05
223	61	-0.04	0.01	-0.07	9.14e-06	1.24e-04	-8.05e-05
223	62	-0.04	0.01	-1.97e-03	2.85e-05	-1.22e-04	-7.84e-05
223	64	-0.04	0.01	-0.07	9.14e-06	1.24e-04	-8.05e-05
223	65	-0.04	0.01	3.14e-03	-5.05e-05	-4.60e-05	-7.87e-05
224	1	-0.07	0.02	-0.01	8.06e-05	-2.12e-04	-1.04e-04
224	5	-0.07	0.02	-0.13	5.03e-05	2.06e-04	-1.10e-04
224	14	-0.06	0.05	0.05	-1.50e-04	-1.40e-04	-6.52e-05
224	18	-0.08	5.34e-03	0.07	-2.56e-05	-3.17e-04	-7.12e-05
224	23	-0.08	0.03	0.09	-8.62e-05	-3.28e-04	-6.60e-05
224	38	-0.05	0.03	0.03	-1.02e-04	-1.00e-04	-6.77e-05
224	42	-0.06	0.01	0.04	-3.65e-05	-1.90e-04	-6.87e-05
224	46	-0.06	0.02	0.05	-6.79e-05	-1.93e-04	-6.54e-05
224	59	-0.05	0.01	-4.02e-03	3.25e-05	-1.33e-04	-7.64e-05
224	61	-0.05	0.01	-0.07	1.57e-05	9.93e-05	-8.00e-05
224	62	-0.05	0.01	-4.02e-03	3.25e-05	-1.33e-04	-7.64e-05
224	64	-0.05	0.01	-0.07	1.57e-05	9.93e-05	-8.00e-05
224	65	-0.05	0.01	7.02e-03	-4.81e-05	-5.53e-05	-7.58e-05
225	1	-0.03	0.02	8.59e-03	7.09e-05	-2.13e-04	-1.03e-04
225	5	-0.03	0.02	-0.12	1.92e-05	1.58e-04	-1.07e-04
225	14	-0.04	0.05	-7.99e-04	-1.48e-04	-6.01e-05	-6.23e-05
225	22	-0.06	0.03	0.06	-6.92e-05	-2.74e-04	-5.99e-05
225	24	6.56e-03	0.02	-0.09	-9.73e-05	2.63e-04	-8.95e-05

225	38	-0.03	0.03	-4.62e-03	-1.03e-04	-3.98e-05	-6.72e-05
225	46	-0.04	0.02	0.03	-6.21e-05	-1.50e-04	-6.32e-05
225	48	-7.01e-03	0.01	-0.05	-7.62e-05	1.27e-04	-8.88e-05
225	58	-0.02	0.01	8.64e-03	5.28e-05	-1.58e-04	-7.62e-05
225	59	-0.02	0.01	4.10e-03	2.62e-05	-1.23e-04	-7.67e-05
225	61	-0.02	0.01	-0.07	-2.50e-06	8.30e-05	-7.89e-05
225	62	-0.02	0.01	4.10e-03	2.62e-05	-1.23e-04	-7.67e-05
225	64	-0.02	0.01	-0.07	-2.50e-06	8.30e-05	-7.89e-05
225	65	-0.02	0.01	-9.53e-03	-5.36e-05	-1.80e-05	-7.82e-05
226	1	-0.07	0.02	-0.02	7.96e-05	-2.29e-04	-1.03e-04
226	5	-0.07	0.02	-0.14	5.50e-05	1.44e-04	-1.08e-04
226	6	-0.05	0.01	-0.14	7.26e-05	1.63e-04	-8.18e-05
226	14	-0.06	0.05	0.06	-1.58e-04	-1.34e-04	-6.42e-05
226	18	-0.08	5.22e-03	0.07	-3.28e-05	-2.96e-04	-7.24e-05
226	23	-0.08	0.03	0.09	-9.57e-05	-3.04e-04	-6.67e-05
226	38	-0.06	0.03	0.04	-1.08e-04	-9.63e-05	-6.69e-05
226	42	-0.07	0.01	0.04	-4.19e-05	-1.77e-04	-6.87e-05
226	46	-0.07	0.02	0.05	-7.45e-05	-1.81e-04	-6.53e-05
226	59	-0.05	0.01	-6.10e-03	3.09e-05	-1.41e-04	-7.58e-05
226	61	-0.05	0.01	-0.07	1.73e-05	6.60e-05	-7.87e-05
226	62	-0.05	0.01	-6.10e-03	3.09e-05	-1.41e-04	-7.58e-05
226	64	-0.05	0.01	-0.07	1.73e-05	6.60e-05	-7.87e-05
226	65	-0.05	0.01	0.01	-5.18e-05	-5.48e-05	-7.49e-05
227	1	-0.10	0.01	-0.02	4.71e-06	-2.73e-04	-7.11e-05
227	5	-0.06	0.01	-0.14	-1.96e-06	7.31e-05	-1.16e-04
227	6	-0.04	6.88e-03	-0.14	-3.09e-06	9.74e-05	-1.00e-04
227	15	-0.07	0.06	0.06	2.72e-06	-1.29e-04	-2.59e-05
227	19	-0.11	8.21e-03	0.08	8.79e-06	-3.04e-04	-1.98e-05
227	23	-0.11	0.04	0.10	7.37e-06	-2.99e-04	-1.51e-05
227	39	-0.07	0.04	0.04	3.15e-06	-9.77e-05	-3.08e-05
227	42	-0.09	0.01	0.04	6.28e-06	-1.88e-04	-2.65e-05
227	46	-0.09	0.03	0.05	5.53e-06	-1.85e-04	-2.31e-05
227	58	-0.07	7.81e-03	-0.01	3.62e-06	-2.01e-04	-5.15e-05
227	61	-0.05	0.01	-0.07	0.0	2.45e-05	-7.42e-05
227	62	-0.07	0.01	-6.23e-03	3.65e-06	-1.68e-04	-4.91e-05
227	64	-0.05	0.01	-0.07	0.0	2.45e-05	-7.42e-05
227	65	-0.06	0.02	0.01	3.72e-06	-6.67e-05	-4.18e-05
228	1	-0.12	4.16e-03	-0.02	-5.19e-06	-2.03e-04	-7.02e-05
228	5	-0.06	0.01	-0.14	-1.95e-06	1.22e-04	-1.25e-04
228	6	-0.03	2.14e-03	-0.14	0.0	1.27e-04	-1.08e-04
228	15	-0.08	0.08	0.06	-8.76e-06	-7.15e-05	-3.59e-05
228	19	-0.14	0.01	0.08	-3.62e-06	-2.41e-04	-1.16e-05
228	23	-0.13	0.04	0.10	-5.37e-06	-2.37e-04	-1.23e-05
228	39	-0.07	0.05	0.04	-7.56e-06	-4.19e-05	-3.76e-05
228	42	-0.10	0.02	0.04	-4.86e-06	-1.29e-04	-2.38e-05
228	46	-0.10	0.04	0.05	-5.75e-06	-1.26e-04	-2.33e-05
228	58	-0.09	3.11e-03	-0.01	-3.96e-06	-1.49e-04	-5.08e-05
228	61	-0.05	0.01	-0.07	-2.75e-06	6.59e-05	-8.01e-05
228	62	-0.08	8.11e-03	-6.34e-03	-4.56e-06	-1.15e-04	-4.94e-05
228	64	-0.05	0.01	-0.07	-2.75e-06	6.59e-05	-8.01e-05
228	65	-0.06	0.02	0.01	-6.36e-06	-1.04e-05	-4.52e-05
229	1	-0.09	0.01	-0.01	0.0	-3.06e-04	-9.85e-05
229	5	-0.06	0.01	-0.13	0.0	6.15e-05	-1.36e-04
229	15	-0.07	0.06	0.05	0.0	-1.53e-04	-5.36e-05
229	19	-0.11	7.98e-03	0.08	0.0	-3.42e-04	-4.57e-05
229	23	-0.11	0.03	0.09	0.0	-3.34e-04	-4.24e-05
229	39	-0.06	0.04	0.03	0.0	-1.23e-04	-5.68e-05
229	42	-0.08	0.01	0.04	0.0	-2.20e-04	-5.15e-05
229	46	-0.08	0.03	0.05	0.0	-2.16e-04	-4.89e-05
229	58	-0.07	7.63e-03	-8.06e-03	0.0	-2.26e-04	-7.21e-05
229	61	-0.04	0.01	-0.07	0.0	1.13e-05	-9.15e-05
229	62	-0.06	0.01	-4.35e-03	0.0	-1.93e-04	-7.06e-05
229	64	-0.04	0.01	-0.07	0.0	1.13e-05	-9.15e-05
229	65	-0.06	0.02	6.79e-03	0.0	-9.27e-05	-6.62e-05
230	1	-0.11	3.88e-03	-0.01	0.0	-1.73e-04	-9.77e-05
230	5	-0.05	0.01	-0.13	0.0	1.45e-04	-1.42e-04
230	15	-0.08	0.08	0.05	0.0	-3.49e-05	-6.00e-05
230	19	-0.13	0.01	0.08	0.0	-2.17e-04	-3.80e-05
230	23	-0.13	0.04	0.09	0.0	-2.08e-04	-3.87e-05
230	39	-0.07	0.05	0.03	0.0	-8.65e-06	-6.11e-05
230	42	-0.10	0.02	0.04	0.0	-1.03e-04	-4.84e-05
230	46	-0.10	0.04	0.05	0.0	-9.76e-05	-4.79e-05
230	58	-0.08	2.90e-03	-8.36e-03	0.0	-1.27e-04	-7.14e-05
230	61	-0.04	0.01	-0.07	0.0	8.63e-05	-9.54e-05
230	62	-0.08	7.88e-03	-4.61e-03	0.0	-9.03e-05	-7.07e-05

230	64	-0.04	0.01	-0.07	0.0	8.63e-05	-9.54e-05
230	65	-0.06	0.02	6.62e-03	0.0	1.88e-05	-6.83e-05
231	1	-0.08	0.01	-8.69e-03	0.0	-3.17e-04	-1.09e-04
231	5	-0.05	0.01	-0.13	0.0	6.40e-05	-1.24e-04
231	15	-0.07	0.06	0.04	0.0	-1.63e-04	-7.58e-05
231	19	-0.10	7.86e-03	0.07	0.0	-3.60e-04	-6.58e-05
231	23	-0.10	0.03	0.08	0.0	-3.51e-04	-6.50e-05
231	39	-0.06	0.04	0.02	0.0	-1.33e-04	-7.64e-05
231	42	-0.08	0.01	0.04	0.0	-2.34e-04	-6.92e-05
231	46	-0.08	0.03	0.04	0.0	-2.29e-04	-6.81e-05
231	58	-0.06	7.51e-03	-4.15e-03	0.0	-2.35e-04	-8.06e-05
231	61	-0.04	0.01	-0.07	0.0	9.99e-06	-8.92e-05
231	62	-0.06	0.01	-2.41e-03	0.0	-2.02e-04	-8.11e-05
231	64	-0.04	0.01	-0.07	0.0	9.99e-06	-8.92e-05
231	65	-0.05	0.02	2.80e-03	0.0	-1.02e-04	-8.25e-05
232	1	-0.10	3.66e-03	-9.25e-03	0.0	-1.60e-04	-1.13e-04
232	5	-0.04	0.01	-0.13	0.0	1.53e-04	-1.31e-04
232	15	-0.07	0.08	0.04	0.0	-1.63e-05	-8.29e-05
232	19	-0.13	0.01	0.07	0.0	-2.08e-04	-6.16e-05
232	23	-0.13	0.04	0.08	0.0	-1.95e-04	-6.38e-05
232	39	-0.06	0.05	0.02	0.0	7.87e-06	-8.21e-05
232	42	-0.09	0.02	0.04	0.0	-9.17e-05	-6.90e-05
232	46	-0.09	0.04	0.04	0.0	-8.47e-05	-6.94e-05
232	58	-0.08	2.73e-03	-4.55e-03	0.0	-1.17e-04	-8.31e-05
232	61	-0.03	0.01	-0.07	0.0	9.42e-05	-9.40e-05
232	62	-0.07	7.71e-03	-2.78e-03	0.0	-7.97e-05	-8.40e-05
232	64	-0.03	0.01	-0.07	0.0	9.42e-05	-9.40e-05
232	65	-0.05	0.02	2.53e-03	0.0	3.25e-05	-8.67e-05
233	1	-0.07	0.01	-3.37e-03	0.0	-3.12e-04	-1.09e-04
233	5	-0.04	0.01	-0.13	0.0	6.86e-05	-9.88e-05
233	15	-0.06	0.06	0.03	0.0	-1.56e-04	-8.79e-05
233	19	-0.10	7.77e-03	0.07	0.0	-3.61e-04	-7.80e-05
233	20	9.62e-03	1.08e-04	-0.08	0.0	1.54e-04	-1.02e-04
233	39	-0.05	0.04	0.01	0.0	-1.27e-04	-8.65e-05
233	42	-0.07	0.01	0.03	0.0	-2.32e-04	-7.88e-05
233	44	-0.02	5.74e-03	-0.04	0.0	3.18e-05	-1.02e-04
233	58	-0.06	7.42e-03	-2.13e-04	0.0	-2.31e-04	-8.14e-05
233	61	-0.03	0.01	-0.07	0.0	1.38e-05	-7.77e-05
233	62	-0.05	9.92e-03	-4.58e-04	0.0	-1.98e-04	-8.36e-05
233	64	-0.03	0.01	-0.07	0.0	1.38e-05	-7.77e-05
233	65	-0.04	0.02	-1.19e-03	0.0	-9.75e-05	-9.02e-05
234	1	-0.10	3.46e-03	-3.91e-03	0.0	-1.57e-04	-1.18e-04
234	5	-0.03	9.97e-03	-0.13	0.0	1.59e-04	-1.06e-04
234	15	-0.07	0.08	0.03	0.0	-1.10e-05	-9.79e-05
234	19	-0.13	9.96e-03	0.07	0.0	-2.11e-04	-7.81e-05
234	20	0.03	2.35e-03	-0.08	0.0	2.68e-04	-1.14e-04
234	39	-0.06	0.05	0.01	0.0	1.23e-05	-9.52e-05
234	42	-0.09	0.02	0.03	0.0	-9.14e-05	-8.23e-05
234	44	-7.36e-03	9.30e-03	-0.04	0.0	1.56e-04	-1.12e-04
234	58	-0.07	2.58e-03	-5.98e-04	0.0	-1.14e-04	-8.75e-05
234	61	-0.03	0.01	-0.07	0.0	9.85e-05	-8.38e-05
234	62	-0.07	7.56e-03	-8.16e-04	0.0	-7.67e-05	-9.00e-05
234	64	-0.03	0.01	-0.07	0.0	9.85e-05	-8.38e-05
234	65	-0.05	0.02	-1.47e-03	0.0	3.61e-05	-9.76e-05
235	1	-0.06	9.77e-03	3.45e-03	0.0	-2.81e-04	-1.27e-04
235	5	-0.03	0.01	-0.12	0.0	8.43e-05	-9.77e-05
235	15	-0.05	0.06	0.01	0.0	-1.23e-04	-1.07e-04
235	19	-0.09	7.59e-03	0.07	0.0	-3.37e-04	-1.00e-04
235	24	0.02	0.03	-0.08	0.0	1.98e-04	-1.15e-04
235	39	-0.04	0.04	3.42e-03	0.0	-9.67e-05	-1.05e-04
235	42	-0.06	0.01	0.03	0.0	-2.07e-04	-9.83e-05
235	48	-5.04e-03	0.02	-0.05	0.0	6.82e-05	-1.17e-04
235	58	-0.05	7.24e-03	4.84e-03	0.0	-2.08e-04	-9.50e-05
235	61	-0.02	0.01	-0.07	0.0	2.97e-05	-8.18e-05
235	62	-0.04	9.73e-03	2.07e-03	0.0	-1.73e-04	-9.81e-05
235	64	-0.02	0.01	-0.07	0.0	2.97e-05	-8.18e-05
235	65	-0.04	0.02	-6.24e-03	0.0	-6.97e-05	-1.08e-04
236	1	-0.08	3.17e-03	3.13e-03	0.0	-1.67e-04	-1.38e-04
236	5	-0.02	9.89e-03	-0.13	0.0	1.57e-04	-1.05e-04
236	15	-0.06	0.08	0.01	0.0	-1.99e-05	-1.21e-04
236	19	-0.12	9.59e-03	0.07	0.0	-2.30e-04	-1.02e-04
236	24	0.04	0.03	-0.08	0.0	2.83e-04	-1.33e-04
236	39	-0.05	0.05	3.26e-03	0.0	2.94e-06	-1.17e-04
236	42	-0.08	0.02	0.03	0.0	-1.06e-04	-1.04e-04
236	48	5.41e-03	0.03	-0.05	0.0	1.59e-04	-1.31e-04

236	58	-0.06	2.36e-03	4.61e-03	0.0	-1.22e-04	-1.03e-04
236	61	-0.02	0.01	-0.07	0.0	9.50e-05	-8.82e-05
236	62	-0.06	7.33e-03	1.85e-03	0.0	-8.49e-05	-1.07e-04
236	64	-0.02	0.01	-0.07	0.0	9.50e-05	-8.82e-05
236	65	-0.04	0.02	-6.43e-03	0.0	2.63e-05	-1.18e-04
237	1	-0.05	9.51e-03	8.38e-03	-9.51e-06	-2.43e-04	-1.42e-04
237	5	-0.02	0.01	-0.12	-4.75e-06	1.11e-04	-1.19e-04
237	15	-0.04	0.06	3.60e-03	-1.30e-05	-8.39e-05	-1.12e-04
237	19	-0.08	7.37e-03	0.07	-8.10e-06	-3.08e-04	-1.08e-04
237	24	0.03	0.03	-0.09	-1.04e-05	2.35e-04	-1.24e-04
237	39	-0.04	0.04	-3.42e-03	-1.12e-05	-6.05e-05	-1.11e-04
237	42	-0.06	0.01	0.03	-8.56e-06	-1.76e-04	-1.07e-04
237	48	3.10e-03	0.02	-0.05	-9.90e-06	1.04e-04	-1.25e-04
237	58	-0.04	7.05e-03	8.49e-03	-7.16e-06	-1.79e-04	-1.06e-04
237	61	-0.02	0.01	-0.07	-5.04e-06	5.27e-05	-9.57e-05
237	62	-0.04	9.53e-03	3.94e-03	-7.68e-06	-1.44e-04	-1.08e-04
237	64	-0.02	0.01	-0.07	-5.04e-06	5.27e-05	-9.57e-05
237	65	-0.03	0.02	-9.72e-03	-9.24e-06	-3.66e-05	-1.16e-04
238	1	-0.07	2.92e-03	8.17e-03	2.99e-06	-1.89e-04	-1.51e-04
238	5	-9.31e-03	9.78e-03	-0.12	-2.04e-06	1.40e-04	-1.25e-04
238	15	-0.05	0.08	3.44e-03	0.0	-3.57e-05	-1.30e-04
238	19	-0.11	9.32e-03	0.07	6.16e-06	-2.57e-04	-1.10e-04
238	24	0.05	0.03	-0.09	0.0	2.74e-04	-1.42e-04
238	39	-0.04	0.05	-3.58e-03	1.53e-06	-1.39e-05	-1.25e-04
238	42	-0.07	0.02	0.03	4.38e-06	-1.12e-04	-1.12e-04
238	48	0.01	0.03	-0.05	0.0	1.45e-04	-1.39e-04
238	58	-0.06	2.17e-03	8.33e-03	2.34e-06	-1.39e-04	-1.13e-04
238	61	-0.01	0.01	-0.07	0.0	8.10e-05	-1.02e-04
238	62	-0.05	7.13e-03	3.78e-03	2.42e-06	-1.02e-04	-1.16e-04
238	64	-0.01	0.01	-0.07	0.0	8.10e-05	-1.02e-04
238	65	-0.03	0.02	-9.88e-03	2.65e-06	8.41e-06	-1.26e-04
239	1	-0.06	0.05	-0.05	2.67e-04	-1.84e-04	0.0
239	4	-0.05	0.04	-0.06	1.94e-04	-7.75e-05	0.0
239	5	-0.06	0.05	-0.06	2.67e-04	5.85e-05	0.0
239	14	-0.05	0.07	0.03	2.32e-05	-4.72e-05	0.0
239	15	-0.05	0.07	0.03	1.87e-05	-4.76e-05	0.0
239	18	-0.08	0.03	6.38e-03	9.92e-05	-1.76e-04	0.0
239	38	-0.05	0.06	0.02	5.08e-05	-3.35e-05	0.0
239	39	-0.05	0.06	0.02	4.95e-05	-3.37e-05	0.0
239	42	-0.06	0.03	8.91e-03	8.92e-05	-9.98e-05	0.0
239	58	-0.05	0.04	-0.04	1.97e-04	-1.35e-04	0.0
239	59	-0.05	0.04	-0.02	1.68e-04	-1.06e-04	0.0
239	61	-0.05	0.04	-0.03	1.68e-04	2.88e-05	0.0
239	62	-0.05	0.04	-0.02	1.68e-04	-1.06e-04	0.0
239	63	-0.05	0.04	-0.03	1.44e-04	-5.16e-05	0.0
239	64	-0.05	0.04	-0.03	1.68e-04	2.88e-05	0.0
239	65	-0.05	0.04	0.01	8.17e-05	-1.93e-05	0.0
240	1	-0.08	0.07	-0.11	1.02e-04	-1.50e-04	0.0
240	5	0.02	0.09	-0.03	-1.29e-05	1.21e-04	0.0
240	16	0.03	0.16	-0.01	-2.33e-04	4.72e-05	0.0
240	19	-0.12	0.06	-0.04	-2.04e-05	-1.25e-04	0.0
240	22	-0.12	0.10	-0.05	-9.77e-05	-1.18e-04	0.0
240	40	6.50e-03	0.13	-0.01	-1.67e-04	2.42e-05	0.0
240	42	-0.07	0.07	-0.03	-5.52e-05	-6.23e-05	0.0
240	46	-0.07	0.09	-0.03	-9.55e-05	-5.94e-05	0.0
240	58	-0.06	0.05	-0.08	7.58e-05	-1.13e-04	0.0
240	61	7.49e-03	0.07	-0.02	-3.06e-05	6.58e-05	0.0
240	62	-0.05	0.06	-0.06	3.32e-05	-8.47e-05	0.0
240	64	7.49e-03	0.07	-0.02	-3.06e-05	6.58e-05	0.0
240	65	-0.01	0.09	-0.02	-9.43e-05	0.0	0.0
241	1	-0.07	0.07	-0.10	7.70e-05	-1.75e-04	0.0
241	5	0.03	0.09	-0.03	-1.96e-05	1.13e-04	0.0
241	16	0.03	0.16	-0.03	-2.39e-04	3.62e-05	0.0
241	19	-0.12	0.06	-0.04	-2.16e-05	-1.21e-04	0.0
241	22	-0.11	0.10	-0.06	-1.01e-04	-1.17e-04	0.0
241	40	0.01	0.13	-0.02	-1.71e-04	1.67e-05	0.0
241	42	-0.07	0.07	-0.04	-5.68e-05	-6.18e-05	0.0
241	46	-0.06	0.09	-0.04	-9.81e-05	-6.06e-05	0.0
241	58	-0.05	0.05	-0.07	5.72e-05	-1.32e-04	0.0
241	61	0.01	0.07	-0.02	-3.49e-05	6.04e-05	0.0
241	62	-0.04	0.06	-0.06	1.88e-05	-9.98e-05	0.0
241	64	0.01	0.07	-0.02	-3.49e-05	6.04e-05	0.0
241	65	-7.70e-03	0.09	-0.02	-9.66e-05	-3.19e-06	0.0
242	1	-0.06	0.07	-0.10	6.01e-05	-1.87e-04	0.0
242	5	0.04	0.09	-0.03	-2.29e-05	1.08e-04	0.0

242	16	0.04	0.16	-0.05	-2.42e-04	3.01e-05	0.0
242	19	-0.11	0.06	-0.05	-2.10e-05	-1.18e-04	0.0
242	22	-0.11	0.10	-0.06	-1.01e-04	-1.15e-04	0.0
242	40	0.02	0.13	-0.04	-1.73e-04	1.22e-05	0.0
242	42	-0.06	0.07	-0.04	-5.69e-05	-6.14e-05	0.0
242	46	-0.06	0.09	-0.05	-9.89e-05	-6.09e-05	0.0
242	58	-0.04	0.05	-0.07	4.47e-05	-1.41e-04	0.0
242	61	0.02	0.07	-0.02	-3.70e-05	5.69e-05	0.0
242	62	-0.03	0.06	-0.06	9.10e-06	-1.07e-04	0.0
242	64	0.02	0.07	-0.02	-3.70e-05	5.69e-05	0.0
242	65	-7.68e-04	0.09	-0.03	-9.76e-05	-5.79e-06	0.0
243	1	-0.05	0.07	-0.09	5.13e-05	-1.93e-04	0.0
243	2	-0.05	0.04	-0.08	8.57e-05	-1.93e-04	0.0
243	5	0.05	0.09	-0.03	-2.35e-05	1.03e-04	0.0
243	14	-0.02	0.15	-0.08	-2.21e-04	-3.95e-05	0.0
243	16	0.05	0.16	-0.06	-2.43e-04	2.48e-05	0.0
243	24	0.12	0.12	-0.02	-1.75e-04	9.98e-05	0.0
243	38	-7.68e-03	0.12	-0.06	-1.62e-04	-2.40e-05	0.0
243	40	0.03	0.13	-0.05	-1.74e-04	8.11e-06	0.0
243	48	0.07	0.11	-0.03	-1.39e-04	4.54e-05	0.0
243	58	-0.04	0.05	-0.07	3.82e-05	-1.45e-04	0.0
243	61	0.03	0.07	-0.03	-3.74e-05	5.36e-05	0.0
243	62	-0.03	0.06	-0.06	4.22e-06	-1.11e-04	0.0
243	64	0.03	0.07	-0.03	-3.74e-05	5.36e-05	0.0
243	65	6.15e-03	0.09	-0.04	-9.77e-05	-8.54e-06	0.0
244	1	-0.04	0.07	-0.09	4.79e-05	-1.95e-04	0.0
244	5	0.06	0.09	-0.04	-2.26e-05	9.76e-05	0.0
244	14	-0.01	0.15	-0.09	-2.21e-04	-4.39e-05	0.0
244	16	0.06	0.16	-0.08	-2.43e-04	1.81e-05	0.0
244	24	0.13	0.12	-0.04	-1.75e-04	9.18e-05	0.0
244	38	-1.06e-03	0.12	-0.07	-1.62e-04	-2.79e-05	0.0
244	40	0.04	0.13	-0.06	-1.74e-04	2.89e-06	0.0
244	48	0.08	0.11	-0.04	-1.38e-04	3.93e-05	0.0
244	58	-0.03	0.05	-0.06	3.57e-05	-1.47e-04	0.0
244	61	0.04	0.07	-0.03	-3.67e-05	4.95e-05	0.0
244	62	-0.02	0.06	-0.06	2.53e-06	-1.13e-04	0.0
244	64	0.04	0.07	-0.03	-3.67e-05	4.95e-05	0.0
244	65	0.01	0.09	-0.04	-9.70e-05	-1.21e-05	0.0
245	1	-0.03	0.07	-0.09	4.78e-05	-1.95e-04	0.0
245	5	0.07	0.09	-0.04	-2.23e-05	9.38e-05	0.0
245	14	-4.51e-03	0.15	-0.11	-2.21e-04	-4.74e-05	0.0
245	16	0.06	0.16	-0.10	-2.45e-04	1.30e-05	0.0
245	24	0.14	0.12	-0.05	-1.78e-04	8.61e-05	0.0
245	38	5.55e-03	0.12	-0.08	-1.61e-04	-3.08e-05	0.0
245	40	0.04	0.13	-0.07	-1.74e-04	0.0	0.0
245	48	0.08	0.11	-0.05	-1.39e-04	3.50e-05	0.0
245	58	-0.02	0.05	-0.06	3.58e-05	-1.47e-04	0.0
245	61	0.04	0.07	-0.03	-3.62e-05	4.67e-05	0.0
245	62	-0.01	0.06	-0.06	2.78e-06	-1.14e-04	0.0
245	64	0.04	0.07	-0.03	-3.62e-05	4.67e-05	0.0
245	65	0.02	0.09	-0.05	-9.63e-05	-1.45e-05	0.0
246	1	-0.08	0.06	-0.09	1.13e-04	-2.66e-04	0.0
246	5	0.02	0.08	-0.04	-2.16e-06	7.42e-05	0.0
246	16	0.03	0.15	-0.01	-2.14e-04	1.05e-05	0.0
246	19	-0.12	0.05	-0.03	-2.50e-05	-1.27e-04	0.0
246	22	-0.12	0.09	-0.04	-9.69e-05	-1.26e-04	0.0
246	40	6.16e-03	0.12	-0.01	-1.54e-04	-5.23e-06	0.0
246	42	-0.07	0.06	-0.03	-5.43e-05	-7.99e-05	0.0
246	46	-0.07	0.09	-0.03	-9.18e-05	-7.85e-05	0.0
246	58	-0.06	0.05	-0.06	8.36e-05	-1.96e-04	0.0
246	61	7.14e-03	0.06	-0.02	-2.29e-05	3.66e-05	0.0
246	62	-0.05	0.06	-0.05	4.10e-05	-1.53e-04	0.0
246	64	7.14e-03	0.06	-0.02	-2.29e-05	3.66e-05	0.0
246	65	-0.02	0.08	-0.01	-8.69e-05	-2.39e-05	0.0
247	1	-0.07	0.06	-0.08	8.34e-05	-2.54e-04	0.0
247	5	0.03	0.08	-0.04	-1.21e-05	6.78e-05	0.0
247	16	0.03	0.15	-0.03	-2.29e-04	-1.84e-06	0.0
247	19	-0.12	0.05	-0.03	-2.42e-05	-1.26e-04	0.0
247	22	-0.11	0.09	-0.05	-1.01e-04	-1.27e-04	0.0
247	40	0.01	0.12	-0.03	-1.64e-04	-1.46e-05	0.0
247	42	-0.07	0.06	-0.03	-5.60e-05	-8.18e-05	0.0
247	46	-0.06	0.09	-0.03	-9.63e-05	-8.17e-05	0.0
247	58	-0.05	0.05	-0.06	6.18e-05	-1.86e-04	0.0
247	61	0.01	0.06	-0.02	-2.96e-05	3.17e-05	0.0
247	62	-0.04	0.06	-0.05	2.34e-05	-1.47e-04	0.0

247	64	0.01	0.06	-0.02	-2.96e-05	3.17e-05	0.0
247	65	-8.06e-03	0.08	-0.02	-9.17e-05	-2.99e-05	0.0
248	1	-0.06	0.06	-0.08	6.24e-05	-2.48e-04	0.0
248	5	0.04	0.08	-0.04	-1.58e-05	6.12e-05	0.0
248	14	-0.02	0.15	-0.06	-2.15e-04	-6.63e-05	0.0
248	16	0.04	0.15	-0.05	-2.33e-04	-1.13e-05	0.0
248	19	-0.11	0.05	-0.04	-2.25e-05	-1.25e-04	0.0
248	38	-0.01	0.12	-0.04	-1.57e-04	-5.13e-05	0.0
248	40	0.02	0.12	-0.04	-1.67e-04	-2.20e-05	0.0
248	42	-0.06	0.06	-0.03	-5.57e-05	-8.40e-05	0.0
248	58	-0.04	0.05	-0.06	4.63e-05	-1.82e-04	0.0
248	61	0.02	0.06	-0.03	-3.19e-05	2.67e-05	0.0
248	62	-0.03	0.06	-0.05	1.15e-05	-1.45e-04	0.0
248	64	0.02	0.06	-0.03	-3.19e-05	2.67e-05	0.0
248	65	-1.13e-03	0.08	-0.03	-9.29e-05	-3.52e-05	0.0
249	1	-0.05	0.06	-0.08	5.29e-05	-2.46e-04	0.0
249	2	-0.05	0.03	-0.06	8.54e-05	-2.29e-04	0.0
249	5	0.05	0.08	-0.04	-1.52e-05	5.32e-05	0.0
249	14	-0.02	0.15	-0.07	-2.14e-04	-7.39e-05	0.0
249	16	0.05	0.15	-0.06	-2.34e-04	-2.14e-05	0.0
249	24	0.12	0.11	-0.03	-1.64e-04	4.40e-05	0.0
249	38	-7.99e-03	0.12	-0.05	-1.56e-04	-5.78e-05	0.0
249	40	0.03	0.12	-0.05	-1.66e-04	-3.00e-05	0.0
249	48	0.07	0.10	-0.03	-1.30e-04	4.48e-06	0.0
249	58	-0.04	0.05	-0.05	3.93e-05	-1.80e-04	0.0
249	61	0.03	0.06	-0.03	-3.14e-05	2.09e-05	0.0
249	62	-0.03	0.06	-0.05	6.41e-06	-1.45e-04	0.0
249	64	0.03	0.06	-0.03	-3.14e-05	2.09e-05	0.0
249	65	5.79e-03	0.08	-0.03	-9.23e-05	-4.08e-05	0.0
250	1	-0.04	0.06	-0.07	4.97e-05	-2.46e-04	0.0
250	5	0.06	0.08	-0.04	-1.38e-05	4.47e-05	0.0
250	14	-0.01	0.15	-0.09	-2.14e-04	-8.13e-05	0.0
250	16	0.06	0.15	-0.08	-2.33e-04	-3.14e-05	0.0
250	24	0.13	0.11	-0.04	-1.63e-04	3.32e-05	0.0
250	38	-1.35e-03	0.12	-0.06	-1.55e-04	-6.42e-05	0.0
250	40	0.04	0.12	-0.06	-1.66e-04	-3.78e-05	0.0
250	48	0.08	0.10	-0.04	-1.29e-04	-3.96e-06	0.0
250	58	-0.03	0.05	-0.05	3.70e-05	-1.80e-04	0.0
250	61	0.03	0.06	-0.03	-3.04e-05	1.49e-05	0.0
250	62	-0.02	0.06	-0.05	4.90e-06	-1.47e-04	0.0
250	64	0.03	0.06	-0.03	-3.04e-05	1.49e-05	0.0
250	65	0.01	0.08	-0.04	-9.15e-05	-4.63e-05	0.0
251	1	-0.03	0.06	-0.07	4.55e-05	-2.47e-04	0.0
251	5	0.07	0.08	-0.04	-1.66e-05	3.79e-05	0.0
251	14	-4.69e-03	0.15	-0.10	-2.16e-04	-8.66e-05	0.0
251	16	0.06	0.15	-0.10	-2.35e-04	-3.96e-05	0.0
251	24	0.14	0.11	-0.05	-1.66e-04	2.35e-05	0.0
251	38	5.30e-03	0.12	-0.08	-1.58e-04	-6.88e-05	0.0
251	40	0.04	0.12	-0.07	-1.68e-04	-4.40e-05	0.0
251	48	0.08	0.10	-0.05	-1.31e-04	-1.10e-05	0.0
251	58	-0.02	0.05	-0.05	3.41e-05	-1.81e-04	0.0
251	61	0.04	0.06	-0.03	-3.23e-05	1.02e-05	0.0
251	62	-0.01	0.06	-0.05	2.22e-06	-1.48e-04	0.0
251	64	0.04	0.06	-0.03	-3.23e-05	1.02e-05	0.0
251	65	0.02	0.08	-0.05	-9.36e-05	-5.03e-05	0.0
252	1	-0.08	0.06	-0.08	9.57e-05	-3.28e-04	0.0
252	5	0.02	0.07	-0.04	2.61e-06	4.97e-05	0.0
252	17	0.02	0.15	-0.01	-2.06e-04	-3.16e-06	0.0
252	19	-0.12	0.05	-0.02	-2.48e-05	-1.58e-04	0.0
252	22	-0.12	0.09	-0.03	-9.52e-05	-1.56e-04	0.0
252	41	5.82e-03	0.11	-0.01	-1.47e-04	-2.29e-05	0.0
252	42	-0.07	0.06	-0.02	-5.18e-05	-1.07e-04	0.0
252	46	-0.07	0.08	-0.02	-8.87e-05	-1.05e-04	0.0
252	58	-0.06	0.04	-0.05	7.08e-05	-2.39e-04	0.0
252	61	6.94e-03	0.06	-0.02	-1.91e-05	1.92e-05	0.0
252	62	-0.05	0.05	-0.04	3.26e-05	-1.90e-04	0.0
252	64	6.94e-03	0.06	-0.02	-1.91e-05	1.92e-05	0.0
252	65	-0.02	0.08	-0.01	-8.20e-05	-4.53e-05	0.0
253	1	-0.07	0.06	-0.07	7.23e-05	-3.00e-04	0.0
253	5	0.03	0.07	-0.04	-8.09e-06	4.48e-05	0.0
253	17	0.03	0.15	-0.03	-2.23e-04	-8.93e-06	0.0
253	19	-0.12	0.05	-0.03	-2.33e-05	-1.61e-04	0.0
253	22	-0.11	0.09	-0.04	-9.96e-05	-1.60e-04	0.0
253	41	0.01	0.11	-0.02	-1.59e-04	-2.85e-05	0.0
253	42	-0.07	0.06	-0.02	-5.39e-05	-1.11e-04	0.0

253	46	-0.07	0.08	-0.03	-9.38e-05	-1.09e-04	0.0
253	58	-0.05	0.04	-0.05	5.36e-05	-2.18e-04	0.0
253	61	0.01	0.06	-0.03	-2.65e-05	1.53e-05	0.0
253	62	-0.04	0.05	-0.04	1.82e-05	-1.76e-04	0.0
253	64	0.01	0.06	-0.03	-2.65e-05	1.53e-05	0.0
253	65	-8.27e-03	0.08	-0.02	-8.80e-05	-5.06e-05	0.0
254	1	-0.06	0.06	-0.07	5.86e-05	-2.87e-04	0.0
254	5	0.04	0.07	-0.04	-9.31e-06	3.64e-05	0.0
254	14	-0.03	0.14	-0.05	-2.08e-04	-8.66e-05	0.0
254	17	0.04	0.15	-0.04	-2.25e-04	-1.95e-05	0.0
254	19	-0.11	0.05	-0.03	-2.18e-05	-1.64e-04	0.0
254	38	-0.01	0.11	-0.04	-1.51e-04	-7.24e-05	0.0
254	41	0.02	0.11	-0.03	-1.60e-04	-3.70e-05	0.0
254	42	-0.06	0.06	-0.03	-5.33e-05	-1.16e-04	0.0
254	58	-0.04	0.04	-0.05	4.34e-05	-2.08e-04	0.0
254	61	0.02	0.06	-0.03	-2.72e-05	9.02e-06	0.0
254	62	-0.03	0.05	-0.04	1.05e-05	-1.70e-04	0.0
254	64	0.02	0.06	-0.03	-2.72e-05	9.02e-06	0.0
254	65	-1.34e-03	0.08	-0.02	-8.84e-05	-5.70e-05	0.0
255	1	-0.05	0.06	-0.06	5.20e-05	-2.82e-04	0.0
255	2	-0.05	0.03	-0.05	8.29e-05	-2.54e-04	0.0
255	5	0.05	0.07	-0.04	-8.79e-06	2.69e-05	0.0
255	14	-0.02	0.14	-0.07	-2.09e-04	-9.57e-05	0.0
255	17	0.05	0.15	-0.06	-2.26e-04	-3.07e-05	0.0
255	24	0.12	0.11	-0.03	-1.56e-04	3.83e-05	0.0
255	38	-8.17e-03	0.11	-0.05	-1.51e-04	-8.01e-05	0.0
255	41	0.03	0.11	-0.05	-1.60e-04	-4.60e-05	0.0
255	48	0.07	0.09	-0.03	-1.24e-04	-8.44e-06	0.0
255	58	-0.04	0.04	-0.04	3.86e-05	-2.05e-04	0.0
255	61	0.03	0.06	-0.03	-2.68e-05	2.20e-06	0.0
255	62	-0.03	0.05	-0.04	6.96e-06	-1.69e-04	0.0
255	64	0.03	0.06	-0.03	-2.68e-05	2.20e-06	0.0
255	65	5.58e-03	0.08	-0.03	-8.80e-05	-6.34e-05	0.0
256	1	-0.04	0.06	-0.06	4.97e-05	-2.82e-04	0.0
256	5	0.06	0.07	-0.04	-8.58e-06	1.77e-05	0.0
256	14	-0.01	0.14	-0.08	-2.09e-04	-1.04e-04	0.0
256	17	0.06	0.15	-0.07	-2.27e-04	-4.10e-05	0.0
256	24	0.13	0.11	-0.04	-1.57e-04	2.73e-05	0.0
256	38	-1.53e-03	0.11	-0.06	-1.51e-04	-8.69e-05	0.0
256	41	0.04	0.11	-0.06	-1.61e-04	-5.42e-05	0.0
256	48	0.08	0.09	-0.04	-1.24e-04	-1.71e-05	0.0
256	58	-0.03	0.04	-0.04	3.69e-05	-2.04e-04	0.0
256	61	0.03	0.06	-0.03	-2.67e-05	-4.33e-06	0.0
256	62	-0.02	0.05	-0.04	5.68e-06	-1.71e-04	0.0
256	64	0.03	0.06	-0.03	-2.67e-05	-4.33e-06	0.0
256	65	0.01	0.08	-0.04	-8.81e-05	-6.93e-05	0.0
257	1	-0.03	0.06	-0.05	4.89e-05	-2.83e-04	0.0
257	5	0.07	0.07	-0.04	-7.13e-06	1.01e-05	0.0
257	14	-4.81e-03	0.14	-0.10	-2.09e-04	-1.10e-04	0.0
257	16	0.06	0.15	-0.09	-2.25e-04	-5.16e-05	0.0
257	24	0.14	0.11	-0.05	-1.53e-04	1.94e-05	0.0
257	38	5.15e-03	0.11	-0.07	-1.51e-04	-9.22e-05	0.0
257	40	0.04	0.11	-0.07	-1.60e-04	-6.13e-05	0.0
257	48	0.08	0.09	-0.05	-1.22e-04	-2.36e-05	0.0
257	59	-0.01	0.05	-0.04	5.34e-06	-1.72e-04	0.0
257	61	0.04	0.06	-0.03	-2.58e-05	-9.61e-06	0.0
257	62	-0.01	0.05	-0.04	5.34e-06	-1.72e-04	0.0
257	64	0.04	0.06	-0.03	-2.58e-05	-9.61e-06	0.0
257	65	0.02	0.08	-0.04	-8.79e-05	-7.41e-05	0.0
258	1	-0.08	0.04	-0.04	7.99e-05	-9.38e-05	0.0
258	5	0.02	0.05	-0.07	7.11e-05	2.32e-04	0.0
258	16	0.02	0.13	-0.03	-1.77e-04	1.31e-04	0.0
258	17	0.02	0.13	-0.02	-1.77e-04	1.28e-04	0.0
258	19	-0.12	0.03	2.27e-03	-1.98e-06	-8.07e-05	0.0
258	40	5.36e-03	0.10	-0.02	-1.20e-04	9.15e-05	0.0
258	41	5.20e-03	0.10	-0.02	-1.20e-04	9.05e-05	0.0
258	42	-0.07	0.05	-6.10e-03	-2.85e-05	-1.68e-05	0.0
258	58	-0.06	0.03	-0.02	5.87e-05	-6.92e-05	0.0
258	61	6.28e-03	0.04	-0.04	2.47e-05	1.41e-04	0.0
258	62	-0.05	0.03	-0.02	2.96e-05	-3.97e-05	0.0
258	64	6.28e-03	0.04	-0.04	2.47e-05	1.41e-04	0.0
258	65	-0.02	0.06	-0.01	-5.79e-05	4.88e-05	0.0
259	1	-0.07	0.04	-0.03	6.34e-05	-1.11e-04	0.0
259	5	0.03	0.05	-0.06	2.85e-05	1.97e-04	0.0
259	16	0.03	0.13	-0.04	-1.99e-04	1.12e-04	0.0



259	17	0.03	0.13	-0.04	-1.99e-04	1.09e-04	0.0
259	19	-0.12	0.03	2.01e-03	-5.33e-06	-9.11e-05	0.0
259	40	0.01	0.10	-0.03	-1.37e-04	7.48e-05	0.0
259	41	0.01	0.10	-0.03	-1.37e-04	7.39e-05	0.0
259	42	-0.07	0.05	-8.40e-03	-3.54e-05	-2.87e-05	0.0
259	58	-0.05	0.03	-0.02	4.69e-05	-8.19e-05	0.0
259	61	0.01	0.04	-0.04	-1.30e-06	1.18e-04	0.0
259	62	-0.04	0.03	-0.02	1.81e-05	-5.27e-05	0.0
259	64	0.01	0.04	-0.04	-1.30e-06	1.18e-04	0.0
259	65	-8.96e-03	0.06	-0.02	-6.84e-05	3.49e-05	0.0
260	1	-0.06	0.04	-0.03	5.71e-05	-1.22e-04	0.0
260	5	0.04	0.05	-0.06	1.43e-05	1.80e-04	0.0
260	16	0.04	0.13	-0.05	-2.04e-04	1.01e-04	0.0
260	17	0.04	0.13	-0.05	-2.04e-04	9.75e-05	0.0
260	19	-0.11	0.03	1.48e-03	-9.84e-06	-1.00e-04	0.0
260	40	0.02	0.10	-0.04	-1.41e-04	6.40e-05	0.0
260	41	0.02	0.10	-0.04	-1.41e-04	6.31e-05	0.0
260	42	-0.06	0.05	-0.01	-3.97e-05	-3.80e-05	0.0
260	58	-0.04	0.03	-0.02	4.24e-05	-9.01e-05	0.0
260	61	0.02	0.04	-0.04	-1.02e-05	1.07e-04	0.0
260	62	-0.03	0.03	-0.02	1.36e-05	-6.13e-05	0.0
260	64	0.02	0.04	-0.04	-1.02e-05	1.07e-04	0.0
260	65	-2.05e-03	0.06	-0.02	-7.25e-05	2.50e-05	0.0
261	2	-0.05	0.01	-0.01	8.10e-05	-1.34e-04	0.0
261	5	0.05	0.05	-0.06	1.07e-05	1.69e-04	0.0
261	16	0.05	0.13	-0.07	-2.07e-04	9.14e-05	0.0
261	17	0.05	0.13	-0.06	-2.07e-04	8.83e-05	0.0
261	24	0.12	0.08	-0.05	-1.37e-04	1.41e-04	0.0
261	40	0.03	0.10	-0.05	-1.44e-04	5.57e-05	0.0
261	41	0.03	0.10	-0.05	-1.44e-04	5.48e-05	0.0
261	48	0.07	0.07	-0.04	-1.07e-04	8.05e-05	0.0
261	58	-0.04	0.03	-0.01	4.05e-05	-9.49e-05	0.0
261	61	0.03	0.04	-0.04	-1.28e-05	9.85e-05	0.0
261	64	0.03	0.04	-0.04	-1.28e-05	9.85e-05	0.0
261	65	4.85e-03	0.06	-0.03	-7.51e-05	1.77e-05	0.0
262	5	0.06	0.05	-0.06	1.08e-05	1.58e-04	0.0
262	16	0.06	0.13	-0.08	-2.08e-04	8.13e-05	0.0
262	17	0.05	0.13	-0.08	-2.08e-04	7.83e-05	0.0
262	24	0.13	0.08	-0.06	-1.36e-04	1.31e-04	0.0
262	40	0.03	0.10	-0.06	-1.45e-04	4.72e-05	0.0
262	41	0.03	0.10	-0.06	-1.45e-04	4.63e-05	0.0
262	48	0.08	0.07	-0.05	-1.07e-04	7.17e-05	0.0
262	61	0.03	0.04	-0.04	-1.29e-05	9.06e-05	0.0
262	64	0.03	0.04	-0.04	-1.29e-05	9.06e-05	0.0
262	65	0.01	0.06	-0.03	-7.56e-05	1.08e-05	0.0
263	5	0.07	0.05	-0.06	1.36e-05	1.48e-04	0.0
263	16	0.06	0.13	-0.10	-2.06e-04	7.21e-05	0.0
263	17	0.06	0.13	-0.09	-2.06e-04	6.90e-05	0.0
263	24	0.14	0.08	-0.07	-1.37e-04	1.21e-04	0.0
263	40	0.04	0.10	-0.07	-1.43e-04	3.95e-05	0.0
263	41	0.04	0.10	-0.07	-1.43e-04	3.86e-05	0.0
263	48	0.08	0.07	-0.06	-1.07e-04	6.37e-05	0.0
263	61	0.04	0.04	-0.04	-1.09e-05	8.40e-05	0.0
263	64	0.04	0.04	-0.04	-1.09e-05	8.40e-05	0.0
263	65	0.02	0.06	-0.04	-7.38e-05	4.91e-06	0.0
264	1	-0.08	0.03	-0.03	8.55e-05	-9.74e-05	0.0
264	5	0.02	0.04	-0.08	8.47e-05	1.96e-04	0.0
264	17	0.02	0.12	-0.03	-1.71e-04	1.23e-04	0.0
264	19	-0.12	0.03	7.42e-03	0.0	-1.00e-04	0.0
264	24	0.09	0.08	-0.04	-1.06e-04	1.80e-04	0.0
264	41	5.03e-03	0.09	-0.02	-1.15e-04	8.35e-05	0.0
264	42	-0.07	0.04	-4.85e-03	-2.56e-05	-3.11e-05	0.0
264	48	0.04	0.07	-0.03	-8.04e-05	1.11e-04	0.0
264	58	-0.06	0.02	-0.02	6.29e-05	-7.08e-05	0.0
264	61	6.09e-03	0.04	-0.05	3.34e-05	1.20e-04	0.0
264	62	-0.05	0.03	-0.02	3.39e-05	-4.32e-05	0.0
264	64	6.09e-03	0.04	-0.05	3.34e-05	1.20e-04	0.0
264	65	-0.02	0.05	-0.01	-5.31e-05	3.98e-05	0.0
265	1	-0.07	0.03	-0.02	7.06e-05	-1.01e-04	0.0
265	5	0.03	0.04	-0.07	3.72e-05	1.99e-04	0.0
265	16	0.03	0.12	-0.05	-1.90e-04	1.22e-04	0.0
265	17	0.03	0.12	-0.04	-1.90e-04	1.20e-04	0.0
265	19	-0.12	0.03	7.58e-03	0.0	-1.01e-04	0.0
265	40	0.01	0.09	-0.03	-1.29e-04	8.07e-05	0.0
265	41	0.01	0.09	-0.03	-1.29e-04	8.00e-05	0.0

265	42	-0.07	0.04	-6.67e-03	-3.01e-05	-3.31e-05	0.0
265	58	-0.05	0.02	-0.02	5.23e-05	-7.36e-05	0.0
265	61	0.01	0.04	-0.04	5.10e-06	1.20e-04	0.0
265	62	-0.04	0.03	-0.02	2.37e-05	-4.61e-05	0.0
265	64	0.01	0.04	-0.04	5.10e-06	1.20e-04	0.0
265	65	-9.18e-03	0.05	-0.02	-6.21e-05	3.66e-05	0.0
266	1	-0.06	0.03	-0.02	6.21e-05	-1.06e-04	0.0
266	5	0.04	0.04	-0.07	2.32e-05	1.91e-04	0.0
266	16	0.04	0.12	-0.06	-1.97e-04	1.13e-04	0.0
266	17	0.04	0.12	-0.06	-1.97e-04	1.11e-04	0.0
266	19	-0.11	0.03	7.38e-03	-7.22e-06	-1.02e-04	0.0
266	40	0.02	0.09	-0.04	-1.35e-04	7.40e-05	0.0
266	41	0.02	0.09	-0.04	-1.35e-04	7.32e-05	0.0
266	42	-0.06	0.04	-8.96e-03	-3.61e-05	-3.55e-05	0.0
266	58	-0.04	0.02	-0.01	4.60e-05	-7.76e-05	0.0
266	61	0.02	0.04	-0.04	-3.96e-06	1.15e-04	0.0
266	62	-0.03	0.03	-0.01	1.76e-05	-5.02e-05	0.0
266	64	0.02	0.04	-0.04	-3.96e-06	1.15e-04	0.0
266	65	-2.30e-03	0.05	-0.02	-6.76e-05	3.19e-05	0.0
267	2	-0.05	9.62e-03	-2.50e-03	8.32e-05	-1.19e-04	0.0
267	5	0.05	0.04	-0.07	1.86e-05	1.82e-04	0.0
267	16	0.05	0.12	-0.07	-2.00e-04	1.06e-04	0.0
267	17	0.05	0.12	-0.07	-2.00e-04	1.03e-04	0.0
267	24	0.12	0.08	-0.06	-1.30e-04	1.58e-04	0.0
267	40	0.03	0.09	-0.05	-1.38e-04	6.77e-05	0.0
267	41	0.03	0.09	-0.05	-1.38e-04	6.69e-05	0.0
267	48	0.07	0.07	-0.05	-1.01e-04	9.34e-05	0.0
267	58	-0.04	0.02	-9.05e-03	4.33e-05	-8.10e-05	0.0
267	61	0.03	0.04	-0.04	-7.34e-06	1.09e-04	0.0
267	62	-0.03	0.03	-0.01	1.48e-05	-5.39e-05	0.0
267	64	0.03	0.04	-0.04	-7.34e-06	1.09e-04	0.0
267	65	4.60e-03	0.05	-0.03	-7.06e-05	2.74e-05	0.0
268	5	0.06	0.04	-0.07	1.79e-05	1.73e-04	0.0
268	16	0.06	0.12	-0.09	-2.01e-04	9.76e-05	0.0
268	17	0.05	0.12	-0.08	-2.01e-04	9.53e-05	0.0
268	24	0.13	0.08	-0.07	-1.30e-04	1.49e-04	0.0
268	40	0.03	0.09	-0.06	-1.39e-04	6.12e-05	0.0
268	41	0.03	0.09	-0.06	-1.39e-04	6.06e-05	0.0
268	48	0.07	0.07	-0.05	-1.02e-04	8.67e-05	0.0
268	61	0.03	0.04	-0.04	-7.94e-06	1.03e-04	0.0
268	64	0.03	0.04	-0.04	-7.94e-06	1.03e-04	0.0
268	65	0.01	0.05	-0.03	-7.15e-05	2.27e-05	0.0
269	5	0.06	0.04	-0.07	2.17e-05	1.67e-04	0.0
269	16	0.06	0.12	-0.10	-1.97e-04	9.16e-05	0.0
269	17	0.06	0.12	-0.10	-1.98e-04	8.93e-05	0.0
269	24	0.14	0.08	-0.08	-1.24e-04	1.43e-04	0.0
269	40	0.04	0.09	-0.07	-1.36e-04	5.64e-05	0.0
269	41	0.04	0.09	-0.07	-1.36e-04	5.57e-05	0.0
269	48	0.08	0.07	-0.06	-9.76e-05	8.14e-05	0.0
269	61	0.04	0.04	-0.04	-5.08e-06	9.84e-05	0.0
269	64	0.04	0.04	-0.04	-5.08e-06	9.84e-05	0.0
269	65	0.02	0.05	-0.04	-6.87e-05	1.91e-05	0.0
270	1	-0.04	0.03	-0.01	-7.22e-05	-8.86e-05	0.0
270	5	-0.04	0.03	-0.07	-1.80e-04	2.57e-04	0.0
270	15	-0.04	0.06	0.01	-1.75e-04	2.83e-05	0.0
270	22	-0.06	0.04	0.03	-1.21e-04	-1.33e-04	0.0
270	23	-0.06	0.04	0.03	-1.16e-04	-1.37e-04	0.0
270	39	-0.03	0.05	7.62e-03	-1.47e-04	4.47e-05	0.0
270	46	-0.05	0.03	0.02	-1.18e-04	-3.96e-05	0.0
270	58	-0.03	0.03	-8.53e-03	-5.07e-05	-6.54e-05	0.0
270	61	-0.03	0.03	-0.04	-1.27e-04	1.58e-04	0.0
270	62	-0.03	0.03	-5.74e-03	-6.70e-05	-3.38e-05	0.0
270	64	-0.03	0.03	-0.04	-1.27e-04	1.58e-04	0.0
270	65	-0.03	0.03	2.62e-03	-1.16e-04	6.11e-05	0.0
271	1	-0.03	0.06	-0.05	8.84e-05	-1.05e-04	0.0
271	3	-0.03	0.06	-0.06	1.35e-04	1.26e-05	0.0
271	17	-0.01	0.08	7.70e-03	-9.01e-05	7.57e-05	0.0
271	22	-0.05	0.05	-4.89e-03	-5.18e-05	-7.11e-05	0.0
271	33	-0.01	0.05	9.08e-03	-5.76e-05	5.44e-05	0.0
271	41	-0.02	0.06	3.99e-03	-6.81e-05	4.86e-05	0.0
271	46	-0.04	0.05	-1.97e-03	-4.81e-05	-2.64e-05	0.0
271	58	-0.02	0.04	-0.04	6.52e-05	-7.75e-05	0.0
271	60	-0.02	0.04	-0.03	6.41e-05	1.19e-05	0.0
271	62	-0.02	0.04	-0.03	3.81e-05	-5.33e-05	0.0
271	63	-0.02	0.04	-0.03	6.41e-05	1.19e-05	0.0

271	65	-0.02	0.04	5.43e-04	-4.31e-05	1.94e-05	0.0
272	1	-0.03	0.05	-0.04	1.98e-05	-1.73e-04	0.0
272	5	-0.03	0.05	-0.06	-3.87e-05	1.01e-04	0.0
272	15	-0.03	0.07	3.91e-03	-1.53e-04	9.66e-06	0.0
272	22	-0.05	0.05	2.91e-03	-9.45e-05	-9.94e-05	0.0
272	28	-0.02	0.03	-7.93e-03	-7.70e-05	2.76e-05	0.0
272	39	-0.03	0.06	1.43e-03	-1.22e-04	9.56e-06	0.0
272	44	-4.48e-03	0.03	-3.52e-03	-8.19e-05	6.41e-05	0.0
272	46	-0.04	0.04	1.52e-03	-9.06e-05	-4.71e-05	0.0
272	58	-0.02	0.04	-0.03	1.53e-05	-1.26e-04	0.0
272	61	-0.02	0.04	-0.03	-4.25e-05	6.04e-05	0.0
272	62	-0.02	0.04	-0.02	-9.99e-06	-9.22e-05	0.0
272	64	-0.02	0.04	-0.03	-4.25e-05	6.04e-05	0.0
272	65	-0.02	0.04	-4.52e-04	-8.60e-05	8.45e-06	0.0
273	4	-0.04	0.05	-0.06	-3.58e-05	-3.89e-05	0.0
273	5	-0.05	0.06	-0.04	3.12e-06	5.69e-05	0.0
273	17	-0.03	0.08	0.03	-6.14e-06	4.06e-05	0.0
273	18	-0.07	0.04	-2.37e-03	2.38e-05	-1.36e-04	0.0
273	41	-0.04	0.06	0.02	1.84e-06	1.43e-05	0.0
273	42	-0.06	0.04	5.23e-03	1.37e-05	-7.64e-05	0.0
273	58	-0.04	0.05	-0.04	2.07e-05	-1.11e-04	0.0
273	61	-0.04	0.05	-0.02	5.72e-06	2.87e-05	0.0
273	63	-0.04	0.05	-0.03	-1.72e-05	-2.78e-05	0.0
273	64	-0.04	0.05	-0.02	5.72e-06	2.87e-05	0.0
273	65	-0.04	0.05	0.01	6.14e-06	-1.39e-05	0.0
274	2	-0.05	0.05	-0.07	2.53e-04	-1.62e-04	0.0
274	5	-0.06	0.06	-0.05	2.47e-04	5.98e-05	0.0
274	16	-0.04	0.08	0.03	3.53e-05	3.29e-05	0.0
274	17	-0.04	0.08	0.03	3.15e-05	3.22e-05	0.0
274	19	-0.08	0.04	-5.38e-03	1.37e-04	-1.69e-04	0.0
274	40	-0.04	0.06	0.02	6.29e-05	5.57e-06	0.0
274	41	-0.04	0.06	0.02	6.18e-05	5.38e-06	0.0
274	42	-0.06	0.04	3.12e-04	1.16e-04	-9.79e-05	0.0
274	58	-0.05	0.05	-0.05	2.11e-04	-1.26e-04	0.0
274	61	-0.05	0.05	-0.03	1.59e-04	2.80e-05	0.0
274	62	-0.05	0.05	-0.03	1.82e-04	-1.01e-04	0.0
274	64	-0.05	0.05	-0.03	1.59e-04	2.80e-05	0.0
274	65	-0.05	0.05	8.95e-03	9.21e-05	-2.33e-05	0.0
275	4	-0.04	0.04	-0.05	2.44e-05	-1.34e-04	0.0
275	5	-0.06	0.05	-0.05	5.88e-05	4.67e-06	0.0
275	14	-0.05	0.07	0.03	-2.90e-05	-2.24e-05	0.0
275	15	-0.05	0.07	0.03	-2.84e-05	-2.11e-05	0.0
275	18	-0.07	0.03	0.01	2.38e-05	-1.67e-04	0.0
275	38	-0.04	0.06	0.02	-9.72e-06	-2.10e-05	0.0
275	39	-0.04	0.06	0.02	-9.55e-06	-2.06e-05	0.0
275	42	-0.06	0.03	0.01	1.51e-05	-9.65e-05	0.0
275	58	-0.04	0.04	-0.03	5.63e-05	-1.61e-04	0.0
275	61	-0.04	0.04	-0.02	3.61e-05	0.0	0.0
275	63	-0.04	0.04	-0.02	1.73e-05	-8.40e-05	0.0
275	64	-0.04	0.04	-0.02	3.61e-05	0.0	0.0
275	65	-0.04	0.04	0.01	8.52e-06	-2.10e-05	0.0
276	1	-0.07	0.07	-0.11	4.63e-04	-2.11e-04	0.0
276	5	-0.07	0.07	-0.07	3.43e-04	8.12e-05	0.0
276	16	-0.04	0.09	0.03	-1.34e-05	3.34e-05	0.0
276	18	-0.08	0.04	-0.04	2.32e-04	-2.18e-04	0.0
276	19	-0.08	0.04	-0.04	2.24e-04	-2.19e-04	0.0
276	40	-0.05	0.07	0.02	4.10e-05	1.54e-06	0.0
276	42	-0.07	0.05	-0.02	1.71e-04	-1.28e-04	0.0
276	58	-0.05	0.05	-0.08	3.38e-04	-1.55e-04	0.0
276	61	-0.05	0.05	-0.04	2.14e-04	3.76e-05	0.0
276	62	-0.05	0.05	-0.06	2.81e-04	-1.25e-04	0.0
276	64	-0.05	0.05	-0.04	2.14e-04	3.76e-05	0.0
276	65	-0.05	0.05	-1.33e-03	1.07e-04	-3.24e-05	0.0
277	1	-0.07	0.06	-0.09	4.20e-04	-2.05e-04	0.0
277	5	-0.07	0.06	-0.08	3.58e-04	7.49e-05	0.0
277	16	-0.04	0.08	0.03	-1.59e-05	2.96e-05	0.0
277	17	-0.04	0.08	0.03	-2.40e-05	2.86e-05	0.0
277	19	-0.08	0.04	-0.02	1.67e-04	-2.14e-04	0.0
277	40	-0.05	0.06	0.02	3.43e-05	0.0	0.0
277	41	-0.05	0.06	0.02	3.19e-05	0.0	0.0
277	42	-0.07	0.04	-9.50e-03	1.36e-04	-1.25e-04	0.0
277	58	-0.05	0.05	-0.07	3.07e-04	-1.51e-04	0.0
277	59	-0.05	0.05	-0.05	2.54e-04	-1.21e-04	0.0
277	61	-0.05	0.05	-0.04	2.20e-04	3.42e-05	0.0
277	62	-0.05	0.05	-0.05	2.54e-04	-1.21e-04	0.0

277	64	-0.05	0.05	-0.04	2.20e-04	3.42e-05	0.0
277	65	-0.05	0.05	1.52e-03	9.61e-05	-3.24e-05	0.0
278	1	-0.07	0.05	-0.08	3.78e-04	-2.02e-04	0.0
278	5	-0.07	0.05	-0.08	3.80e-04	8.17e-05	0.0
278	14	-0.06	0.07	0.03	-2.15e-05	-7.75e-05	0.0
278	15	-0.06	0.07	0.03	-3.02e-05	-7.86e-05	0.0
278	19	-0.08	0.03	1.59e-03	1.11e-04	-2.15e-04	0.0
278	38	-0.06	0.06	0.02	2.53e-05	-5.41e-05	0.0
278	39	-0.06	0.06	0.02	2.26e-05	-5.45e-05	0.0
278	42	-0.07	0.03	1.41e-03	1.02e-04	-1.25e-04	0.0
278	58	-0.05	0.04	-0.05	2.76e-04	-1.49e-04	0.0
278	59	-0.05	0.04	-0.04	2.28e-04	-1.19e-04	0.0
278	61	-0.05	0.04	-0.04	2.29e-04	3.88e-05	0.0
278	62	-0.05	0.04	-0.04	2.28e-04	-1.19e-04	0.0
278	64	-0.05	0.04	-0.04	2.29e-04	3.88e-05	0.0
278	65	-0.05	0.04	4.25e-03	8.42e-05	-2.94e-05	0.0
279	1	-0.03	0.04	-0.03	-4.94e-05	-1.29e-04	0.0
279	5	-0.03	0.04	-0.07	-1.36e-04	1.88e-04	0.0
279	15	-0.03	0.07	2.52e-03	-1.98e-04	3.56e-05	0.0
279	22	-0.05	0.04	8.29e-03	-1.34e-04	-8.60e-05	0.0
279	24	8.29e-03	0.04	-0.02	-1.62e-04	1.93e-04	0.0
279	39	-0.03	0.05	-4.57e-05	-1.62e-04	3.91e-05	0.0
279	46	-0.04	0.04	3.59e-03	-1.28e-04	-2.47e-05	0.0
279	48	-5.23e-03	0.04	-8.91e-03	-1.42e-04	1.20e-04	0.0
279	58	-0.02	0.03	-0.02	-3.48e-05	-9.36e-05	0.0
279	61	-0.02	0.03	-0.03	-1.05e-04	1.16e-04	0.0
279	62	-0.02	0.03	-0.02	-5.65e-05	-5.98e-05	0.0
279	64	-0.02	0.03	-0.03	-1.05e-04	1.16e-04	0.0
279	65	-0.02	0.03	-1.94e-03	-1.22e-04	4.16e-05	0.0
280	1	-0.04	0.05	-0.04	-5.77e-06	-2.66e-04	0.0
280	3	-0.04	0.05	-0.05	-6.56e-06	-2.12e-04	0.0
280	5	-0.04	0.05	-0.05	-6.53e-05	-2.14e-05	0.0
280	15	-0.04	0.07	0.01	-1.52e-04	-4.01e-05	0.0
280	22	-0.06	0.05	9.48e-03	-1.00e-04	-1.35e-04	0.0
280	39	-0.03	0.06	9.51e-03	-1.21e-04	-3.73e-05	0.0
280	46	-0.04	0.04	7.71e-03	-9.38e-05	-8.66e-05	0.0
280	58	-0.03	0.04	-0.03	-3.05e-06	-1.93e-04	0.0
280	60	-0.03	0.04	-0.03	-2.45e-05	-1.24e-04	0.0
280	61	-0.03	0.04	-0.03	-5.71e-05	-1.76e-05	0.0
280	62	-0.03	0.04	-0.02	-2.40e-05	-1.53e-04	0.0
280	63	-0.03	0.04	-0.03	-2.45e-05	-1.24e-04	0.0
280	64	-0.03	0.04	-0.03	-5.71e-05	-1.76e-05	0.0
280	65	-0.03	0.04	5.30e-03	-8.70e-05	-3.54e-05	0.0
281	1	-0.06	0.04	-0.02	1.24e-04	-5.99e-05	0.0
281	5	-0.06	0.04	-0.06	1.14e-04	2.76e-04	0.0
281	6	-0.04	0.03	-0.07	1.12e-04	2.55e-04	0.0
281	14	-0.05	0.06	0.03	-6.96e-05	5.31e-06	0.0
281	18	-0.07	0.02	0.03	5.81e-06	-1.44e-04	0.0
281	23	-0.07	0.04	0.04	-3.61e-05	-1.46e-04	0.0
281	38	-0.05	0.05	0.02	-3.51e-05	2.93e-05	0.0
281	42	-0.06	0.02	0.02	3.14e-06	-4.71e-05	0.0
281	46	-0.06	0.03	0.03	-1.75e-05	-4.56e-05	0.0
281	59	-0.04	0.03	-4.98e-03	6.90e-05	-1.92e-05	0.0
281	61	-0.04	0.03	-0.03	6.32e-05	1.67e-04	0.0
281	62	-0.04	0.03	-4.98e-03	6.90e-05	-1.92e-05	0.0
281	64	-0.04	0.03	-0.03	6.32e-05	1.67e-04	0.0
281	65	-0.04	0.03	0.01	1.78e-06	5.76e-05	0.0
282	1	-0.05	0.05	-0.04	-2.32e-05	-2.98e-04	0.0
282	4	-0.03	0.04	-0.05	-3.66e-05	-2.22e-04	0.0
282	5	-0.05	0.05	-0.05	-6.34e-05	-6.96e-05	0.0
282	15	-0.04	0.07	0.03	-1.08e-04	-1.58e-05	0.0
282	18	-0.06	0.03	0.01	-3.38e-05	-1.74e-04	0.0
282	39	-0.04	0.06	0.02	-8.41e-05	-2.60e-05	0.0
282	42	-0.05	0.03	0.01	-4.64e-05	-1.08e-04	0.0
282	58	-0.03	0.04	-0.03	-1.47e-05	-2.16e-04	0.0
282	61	-0.03	0.04	-0.02	-4.81e-05	-4.46e-05	0.0
282	62	-0.03	0.04	-0.02	-2.57e-05	-1.71e-04	0.0
282	63	-0.03	0.04	-0.02	-4.65e-05	-1.40e-04	0.0
282	64	-0.03	0.04	-0.02	-4.81e-05	-4.46e-05	0.0
282	65	-0.03	0.04	0.01	-5.89e-05	-3.82e-05	0.0
283	1	-0.03	0.03	-0.02	-9.46e-05	-1.14e-04	0.0
283	5	-0.03	0.03	-0.08	-2.17e-04	2.43e-04	0.0
283	15	-0.03	0.06	-1.53e-04	-2.18e-04	1.77e-05	0.0
283	22	-0.05	0.04	0.02	-1.52e-04	-1.54e-04	0.0
283	24	7.58e-03	0.03	-0.04	-1.90e-04	2.75e-04	0.0

283	39	-0.03	0.05	-3.56e-03	-1.83e-04	3.31e-05	0.0
283	46	-0.04	0.03	6.76e-03	-1.47e-04	-5.66e-05	0.0
283	48	-5.96e-03	0.03	-0.02	-1.67e-04	1.65e-04	0.0
283	58	-0.02	0.03	-0.01	-6.71e-05	-8.40e-05	0.0
283	61	-0.02	0.03	-0.05	-1.54e-04	1.47e-04	0.0
283	62	-0.02	0.03	-0.01	-8.61e-05	-5.10e-05	0.0
283	64	-0.02	0.03	-0.05	-1.54e-04	1.47e-04	0.0
283	65	-0.02	0.03	-6.24e-03	-1.43e-04	4.82e-05	0.0
284	1	-0.05	0.07	-0.07	9.86e-05	-1.07e-04	0.0
284	2	-0.04	0.05	-0.07	9.14e-05	-1.09e-04	0.0
284	5	-0.05	0.07	-0.04	6.37e-05	1.35e-04	0.0
284	17	-0.03	0.08	0.04	-7.45e-06	4.32e-05	0.0
284	18	-0.07	0.04	-0.01	7.34e-05	-1.21e-04	0.0
284	41	-0.04	0.07	0.03	1.08e-05	2.19e-05	0.0
284	42	-0.06	0.05	-7.87e-04	4.98e-05	-6.23e-05	0.0
284	58	-0.04	0.05	-0.05	7.47e-05	-8.06e-05	0.0
284	59	-0.04	0.05	-0.03	6.28e-05	-6.05e-05	0.0
284	61	-0.04	0.05	-0.01	4.34e-05	7.41e-05	0.0
284	62	-0.04	0.05	-0.03	6.28e-05	-6.05e-05	0.0
284	64	-0.04	0.05	-0.01	4.34e-05	7.41e-05	0.0
284	65	-0.04	0.05	0.01	2.70e-05	0.0	0.0
285	1	-0.04	0.04	-0.03	-6.12e-05	-1.85e-04	0.0
285	5	-0.04	0.04	-0.06	-1.44e-04	1.01e-04	0.0
285	15	-0.04	0.07	0.01	-1.68e-04	1.06e-05	0.0
285	22	-0.06	0.04	0.02	-1.20e-04	-1.14e-04	0.0
285	23	-0.06	0.04	0.02	-1.16e-04	-1.14e-04	0.0
285	39	-0.03	0.05	0.01	-1.40e-04	1.31e-05	0.0
285	46	-0.04	0.04	0.01	-1.15e-04	-5.21e-05	0.0
285	58	-0.03	0.03	-0.02	-4.31e-05	-1.34e-04	0.0
285	61	-0.03	0.03	-0.03	-1.06e-04	6.18e-05	0.0
285	62	-0.03	0.03	-0.01	-5.97e-05	-9.71e-05	0.0
285	64	-0.03	0.03	-0.03	-1.06e-04	6.18e-05	0.0
285	65	-0.03	0.03	5.95e-03	-1.10e-04	1.46e-05	0.0
286	1	-0.05	0.04	-0.02	2.08e-06	-2.04e-04	0.0
286	5	-0.05	0.04	-0.05	-4.46e-05	5.49e-05	0.0
286	6	-0.04	0.03	-0.05	-2.43e-05	5.91e-05	0.0
286	14	-0.04	0.07	0.02	-1.02e-04	-8.83e-06	0.0
286	18	-0.06	0.02	0.02	-3.33e-05	-1.51e-04	0.0
286	23	-0.06	0.04	0.03	-6.15e-05	-1.30e-04	0.0
286	38	-0.04	0.05	0.02	-7.62e-05	-4.23e-06	0.0
286	39	-0.04	0.05	0.02	-7.55e-05	-4.06e-06	0.0
286	42	-0.05	0.03	0.02	-4.22e-05	-7.86e-05	0.0
286	58	-0.04	0.03	-0.02	3.45e-06	-1.48e-04	0.0
286	61	-0.04	0.03	-0.02	-3.60e-05	3.27e-05	0.0
286	62	-0.04	0.03	-7.94e-03	-1.01e-05	-1.11e-04	0.0
286	64	-0.04	0.03	-0.02	-3.60e-05	3.27e-05	0.0
286	65	-0.04	0.03	0.01	-5.08e-05	0.0	0.0
287	1	-0.06	0.05	-0.04	2.66e-04	-1.67e-04	0.0
287	5	-0.06	0.05	-0.06	2.86e-04	1.01e-04	0.0
287	6	-0.05	0.03	-0.06	2.58e-04	1.05e-04	0.0
287	14	-0.05	0.07	0.03	-5.12e-06	-4.10e-05	0.0
287	15	-0.05	0.07	0.03	-1.04e-05	-4.22e-05	0.0
287	18	-0.08	0.03	0.02	7.61e-05	-1.77e-04	0.0
287	38	-0.05	0.05	0.02	3.14e-05	-2.43e-05	0.0
287	39	-0.05	0.05	0.02	2.98e-05	-2.47e-05	0.0
287	42	-0.06	0.03	0.01	7.30e-05	-9.40e-05	0.0
287	59	-0.05	0.03	-0.02	1.64e-04	-9.35e-05	0.0
287	61	-0.05	0.03	-0.03	1.75e-04	5.58e-05	0.0
287	62	-0.05	0.03	-0.02	1.64e-04	-9.35e-05	0.0
287	64	-0.05	0.03	-0.03	1.75e-04	5.58e-05	0.0
287	65	-0.05	0.03	0.01	7.23e-05	-5.82e-06	0.0
288	1	-0.04	0.03	-8.07e-03	-4.24e-06	-6.45e-05	0.0
288	5	-0.04	0.03	-0.10	-9.52e-05	3.41e-04	0.0
288	15	-0.04	0.05	0.01	-1.58e-04	1.64e-05	0.0
288	22	-0.06	0.03	0.04	-9.17e-05	-1.86e-04	0.0
288	24	1.39e-03	0.03	-0.05	-1.27e-04	3.53e-04	0.0
288	39	-0.03	0.04	3.49e-03	-1.23e-04	4.36e-05	0.0
288	46	-0.05	0.03	0.02	-8.80e-05	-6.25e-05	0.0
288	48	-0.01	0.02	-0.03	-1.06e-04	2.16e-04	0.0
288	58	-0.03	0.02	-3.84e-03	-1.30e-06	-4.93e-05	0.0
288	59	-0.03	0.02	-3.74e-03	-2.19e-05	-1.91e-05	0.0
288	61	-0.03	0.02	-0.05	-7.25e-05	2.06e-04	0.0
288	62	-0.03	0.02	-3.74e-03	-2.19e-05	-1.91e-05	0.0
288	64	-0.03	0.02	-0.05	-7.25e-05	2.06e-04	0.0
288	65	-0.03	0.02	-3.45e-03	-8.39e-05	7.13e-05	0.0

289	1	-0.06	0.04	-0.03	2.29e-04	-9.71e-05	0.0
289	5	-0.06	0.04	-0.08	2.58e-04	2.34e-04	0.0
289	6	-0.05	0.03	-0.08	2.41e-04	2.24e-04	0.0
289	14	-0.05	0.06	0.03	-5.40e-05	-3.39e-05	0.0
289	18	-0.08	0.02	0.03	3.46e-05	-1.74e-04	0.0
289	23	-0.08	0.04	0.05	-2.29e-05	-1.80e-04	0.0
289	38	-0.05	0.05	0.02	-9.09e-06	-5.45e-06	0.0
289	42	-0.06	0.02	0.02	3.68e-05	-7.63e-05	0.0
289	46	-0.06	0.03	0.03	9.62e-06	-7.78e-05	0.0
289	59	-0.05	0.03	-0.01	1.36e-04	-4.73e-05	0.0
289	61	-0.05	0.03	-0.04	1.52e-04	1.37e-04	0.0
289	62	-0.05	0.03	-0.01	1.36e-04	-4.73e-05	0.0
289	64	-0.05	0.03	-0.04	1.52e-04	1.37e-04	0.0
289	65	-0.05	0.03	0.01	4.10e-05	2.81e-05	0.0
290	1	-0.05	0.04	-0.01	2.19e-05	-5.98e-05	0.0
290	6	-0.04	0.03	-0.06	-1.29e-05	2.55e-04	0.0
290	14	-0.04	0.06	0.02	-1.11e-04	2.96e-05	0.0
290	18	-0.07	0.02	0.03	-3.36e-05	-1.36e-04	0.0
290	23	-0.07	0.04	0.04	-6.75e-05	-1.29e-04	0.0
290	38	-0.04	0.05	0.02	-8.14e-05	4.79e-05	0.0
290	42	-0.05	0.02	0.02	-4.21e-05	-3.75e-05	0.0
290	46	-0.05	0.03	0.02	-6.03e-05	-3.18e-05	0.0
290	58	-0.04	0.03	-6.75e-03	1.76e-05	-4.44e-05	0.0
290	59	-0.04	0.03	-2.42e-03	0.0	-1.61e-05	0.0
290	61	-0.04	0.03	-0.03	-2.96e-05	1.72e-04	0.0
290	62	-0.04	0.03	-2.42e-03	0.0	-1.61e-05	0.0
290	64	-0.04	0.03	-0.03	-2.96e-05	1.72e-04	0.0
290	65	-0.04	0.03	0.01	-5.06e-05	6.90e-05	0.0
291	1	-0.05	0.03	-9.94e-03	4.64e-05	7.97e-06	0.0
291	5	-0.05	0.03	-0.09	-3.92e-06	4.41e-04	0.0
291	14	-0.04	0.05	0.02	-1.30e-04	2.91e-05	0.0
291	18	-0.07	0.01	0.05	-2.80e-05	-1.71e-04	0.0
291	23	-0.07	0.03	0.05	-7.41e-05	-1.76e-04	0.0
291	38	-0.04	0.04	0.01	-9.22e-05	6.12e-05	0.0
291	42	-0.05	0.02	0.03	-3.94e-05	-4.14e-05	0.0
291	46	-0.05	0.03	0.03	-6.38e-05	-3.94e-05	0.0
291	58	-0.04	0.02	-5.35e-03	3.51e-05	3.06e-06	0.0
291	59	-0.04	0.02	-3.29e-03	1.35e-05	2.70e-05	0.0
291	61	-0.04	0.02	-0.05	-1.45e-05	2.68e-04	0.0
291	62	-0.04	0.02	-3.29e-03	1.35e-05	2.70e-05	0.0
291	64	-0.04	0.02	-0.05	-1.45e-05	2.68e-04	0.0
291	65	-0.04	0.02	2.91e-03	-5.13e-05	9.86e-05	0.0
292	1	-0.02	0.04	-0.03	2.61e-06	-6.50e-05	0.0
292	5	-0.02	0.04	-0.07	-6.11e-05	2.76e-04	0.0
292	15	-0.03	0.07	-0.01	-1.93e-04	7.78e-05	0.0
292	22	-0.05	0.04	9.78e-05	-1.11e-04	-4.32e-05	0.0
292	24	0.01	0.04	-0.03	-1.52e-04	2.26e-04	0.0
292	39	-0.02	0.05	-0.01	-1.50e-04	7.78e-05	0.0
292	46	-0.04	0.04	-4.21e-03	-1.06e-04	1.40e-05	0.0
292	48	8.14e-04	0.04	-0.02	-1.27e-04	1.53e-04	0.0
292	58	-0.02	0.03	-0.02	2.68e-06	-4.74e-05	0.0
292	61	-0.02	0.03	-0.04	-5.87e-05	1.73e-04	0.0
292	62	-0.02	0.03	-0.02	-2.32e-05	-1.65e-05	0.0
292	64	-0.02	0.03	-0.04	-5.87e-05	1.73e-04	0.0
292	65	-0.02	0.03	-9.32e-03	-1.01e-04	7.63e-05	0.0
293	1	-0.06	0.05	-0.03	1.16e-04	-1.82e-04	0.0
293	5	-0.06	0.04	-0.05	1.05e-04	7.50e-05	0.0
293	6	-0.04	0.03	-0.05	1.01e-04	7.77e-05	0.0
293	14	-0.05	0.07	0.03	-4.18e-05	-1.43e-05	0.0
293	15	-0.05	0.07	0.03	-4.27e-05	-1.44e-05	0.0
293	18	-0.07	0.02	0.02	2.26e-05	-1.58e-04	0.0
293	38	-0.05	0.05	0.02	-1.44e-05	-6.62e-06	0.0
293	39	-0.05	0.05	0.02	-1.46e-05	-6.66e-06	0.0
293	42	-0.06	0.03	0.02	1.73e-05	-8.10e-05	0.0
293	59	-0.04	0.03	-0.01	6.81e-05	-9.90e-05	0.0
293	61	-0.04	0.03	-0.02	6.20e-05	4.37e-05	0.0
293	62	-0.04	0.03	-0.01	6.81e-05	-9.90e-05	0.0
293	64	-0.04	0.03	-0.02	6.20e-05	4.37e-05	0.0
293	65	-0.04	0.03	0.01	1.37e-05	1.30e-06	0.0
294	1	-0.01	0.04	-0.03	4.78e-05	-7.82e-05	0.0
294	5	-9.89e-03	0.04	-0.07	8.11e-06	2.52e-04	0.0
294	15	-0.02	0.07	-0.03	-1.88e-04	7.59e-05	0.0
294	16	1.48e-03	0.06	-0.05	-2.02e-04	1.58e-04	0.0
294	22	-0.04	0.04	-0.01	-8.86e-05	-4.89e-05	0.0
294	39	-0.01	0.05	-0.03	-1.36e-04	7.20e-05	0.0

294	40	-2.34e-03	0.05	-0.03	-1.43e-04	1.14e-04	0.0
294	46	-0.03	0.04	-0.02	-8.38e-05	6.53e-06	0.0
294	58	-7.61e-03	0.03	-0.02	3.54e-05	-5.70e-05	0.0
294	61	-7.36e-03	0.03	-0.04	-1.50e-05	1.57e-04	0.0
294	62	-7.57e-03	0.03	-0.02	7.10e-06	-2.62e-05	0.0
294	64	-7.36e-03	0.03	-0.04	-1.50e-05	1.57e-04	0.0
294	65	-7.46e-03	0.03	-0.02	-7.78e-05	6.63e-05	0.0
295	1	-2.41e-03	0.04	-0.03	5.12e-05	-8.22e-05	0.0
295	5	-2.27e-03	0.04	-0.07	1.24e-05	2.41e-04	0.0
295	14	-0.01	0.07	-0.05	-1.87e-04	7.29e-05	0.0
295	16	7.43e-03	0.06	-0.06	-2.00e-04	1.50e-04	0.0
295	23	-0.04	0.04	-0.01	-8.85e-05	-5.39e-05	0.0
295	38	-8.66e-03	0.05	-0.04	-1.34e-04	6.76e-05	0.0
295	40	3.58e-03	0.05	-0.04	-1.41e-04	1.07e-04	0.0
295	46	-0.02	0.04	-0.02	-8.23e-05	3.31e-06	0.0
295	58	-1.79e-03	0.03	-0.02	3.79e-05	-5.99e-05	0.0
295	61	-1.68e-03	0.03	-0.05	-1.19e-05	1.50e-04	0.0
295	62	-1.76e-03	0.03	-0.02	9.64e-06	-2.95e-05	0.0
295	64	-1.68e-03	0.03	-0.05	-1.19e-05	1.50e-04	0.0
295	65	-1.67e-03	0.03	-0.03	-7.50e-05	6.15e-05	0.0
296	1	5.42e-03	0.04	-0.02	5.34e-05	-8.63e-05	0.0
296	5	5.30e-03	0.04	-0.07	1.42e-05	2.31e-04	0.0
296	14	-7.78e-03	0.07	-0.06	-1.86e-04	6.74e-05	0.0
296	16	0.01	0.06	-0.08	-1.99e-04	1.43e-04	0.0
296	20	0.04	0.02	-0.04	-5.85e-05	1.70e-04	0.0
296	38	-3.28e-03	0.05	-0.05	-1.32e-04	6.26e-05	0.0
296	40	9.45e-03	0.05	-0.05	-1.39e-04	1.01e-04	0.0
296	44	0.03	0.02	-0.04	-6.51e-05	1.14e-04	0.0
296	59	4.04e-03	0.03	-0.02	1.14e-05	-3.30e-05	0.0
296	61	3.97e-03	0.03	-0.05	-1.04e-05	1.43e-04	0.0
296	62	4.04e-03	0.03	-0.02	1.14e-05	-3.30e-05	0.0
296	64	3.97e-03	0.03	-0.05	-1.04e-05	1.43e-04	0.0
296	65	4.10e-03	0.03	-0.03	-7.30e-05	5.67e-05	0.0
297	1	0.01	0.04	-0.02	5.29e-05	-9.13e-05	0.0
297	5	0.01	0.04	-0.07	1.33e-05	2.21e-04	0.0
297	14	-2.46e-03	0.07	-0.08	-1.87e-04	6.17e-05	0.0
297	16	0.02	0.06	-0.09	-1.99e-04	1.36e-04	0.0
297	20	0.05	0.02	-0.04	-5.79e-05	1.63e-04	0.0
297	38	2.09e-03	0.05	-0.06	-1.33e-04	5.73e-05	0.0
297	40	0.02	0.05	-0.06	-1.39e-04	9.52e-05	0.0
297	44	0.03	0.02	-0.04	-6.49e-05	1.08e-04	0.0
297	59	9.84e-03	0.03	-0.02	1.11e-05	-3.70e-05	0.0
297	61	9.62e-03	0.03	-0.05	-1.09e-05	1.36e-04	0.0
297	62	9.84e-03	0.03	-0.02	1.11e-05	-3.70e-05	0.0
297	64	9.62e-03	0.03	-0.05	-1.09e-05	1.36e-04	0.0
297	65	9.87e-03	0.03	-0.04	-7.32e-05	5.16e-05	0.0
298	1	0.02	0.04	-0.01	4.73e-05	-9.50e-05	0.0
298	5	0.02	0.04	-0.07	1.11e-05	2.14e-04	0.0
298	14	2.81e-03	0.07	-0.09	-1.89e-04	5.83e-05	0.0
298	16	0.03	0.06	-0.10	-1.99e-04	1.31e-04	0.0
298	20	0.05	0.02	-0.05	-5.58e-05	1.57e-04	0.0
298	38	7.43e-03	0.05	-0.07	-1.35e-04	5.39e-05	0.0
298	40	0.02	0.05	-0.07	-1.40e-04	9.12e-05	0.0
298	44	0.04	0.03	-0.04	-6.49e-05	1.03e-04	0.0
298	58	0.02	0.03	-7.95e-03	3.49e-05	-6.92e-05	0.0
298	61	0.02	0.03	-0.05	-1.28e-05	1.32e-04	0.0
298	62	0.02	0.03	-0.02	7.32e-06	-3.99e-05	0.0
298	64	0.02	0.03	-0.05	-1.28e-05	1.32e-04	0.0
298	65	0.02	0.03	-0.04	-7.55e-05	4.81e-05	0.0
299	1	-0.03	0.03	-8.28e-03	6.77e-06	-1.58e-04	0.0
299	5	-0.03	0.03	-0.10	-9.43e-05	2.11e-04	0.0
299	15	-0.03	0.05	2.12e-04	-1.64e-04	-2.19e-05	0.0
299	22	-0.06	0.03	0.04	-8.25e-05	-2.32e-04	0.0
299	24	7.02e-03	0.03	-0.06	-1.44e-04	3.01e-04	0.0
299	39	-0.03	0.04	-4.82e-03	-1.27e-04	0.0	0.0
299	46	-0.04	0.03	0.01	-8.36e-05	-1.10e-04	0.0
299	48	-6.55e-03	0.02	-0.04	-1.15e-04	1.65e-04	0.0
299	58	-0.02	0.02	-3.86e-03	6.94e-06	-1.17e-04	0.0
299	59	-0.02	0.02	-5.17e-03	-1.60e-05	-8.26e-05	0.0
299	61	-0.02	0.02	-0.06	-7.21e-05	1.22e-04	0.0
299	62	-0.02	0.02	-5.17e-03	-1.60e-05	-8.26e-05	0.0
299	64	-0.02	0.02	-0.06	-7.21e-05	1.22e-04	0.0
299	65	-0.02	0.02	-9.13e-03	-8.46e-05	2.10e-05	0.0
300	1	-0.01	0.09	-0.09	4.36e-05	-4.18e-04	0.0
300	17	-1.21e-03	0.10	-5.47e-03	-2.13e-04	-5.19e-05	0.0

300	22	-0.04	0.07	-0.04	-9.10e-05	-2.59e-04	0.0
300	23	-0.04	0.07	-0.04	-9.08e-05	-2.55e-04	0.0
300	41	-5.14e-03	0.08	-8.77e-03	-1.53e-04	-7.69e-05	0.0
300	46	-0.03	0.07	-0.03	-8.82e-05	-1.85e-04	0.0
300	58	-0.01	0.06	-0.06	3.24e-05	-3.07e-04	0.0
300	62	-0.01	0.06	-0.05	2.67e-06	-2.56e-04	0.0
300	65	-0.01	0.06	-0.01	-8.66e-05	-1.04e-04	0.0
301	1	-6.12e-03	0.09	-0.09	4.37e-05	-4.14e-04	0.0
301	3	-6.13e-03	0.08	-0.05	8.06e-06	-1.69e-04	0.0
301	17	4.73e-03	0.10	-0.02	-2.16e-04	-7.73e-05	0.0
301	22	-0.04	0.07	-0.05	-9.14e-05	-2.63e-04	0.0
301	23	-0.04	0.07	-0.04	-9.13e-05	-2.60e-04	0.0
301	41	8.02e-04	0.08	-0.02	-1.55e-04	-9.50e-05	0.0
301	46	-0.02	0.07	-0.03	-8.86e-05	-1.92e-04	0.0
301	58	-4.54e-03	0.06	-0.06	3.25e-05	-3.04e-04	0.0
301	62	-4.52e-03	0.06	-0.05	2.66e-06	-2.56e-04	0.0
301	63	-4.52e-03	0.06	-0.03	-1.71e-05	-1.20e-04	0.0
301	65	-4.48e-03	0.06	-0.02	-8.69e-05	-1.14e-04	0.0
302	1	1.84e-03	0.09	-0.08	4.29e-05	-4.10e-04	0.0
302	17	0.01	0.10	-0.04	-2.20e-04	-9.87e-05	0.0
302	20	0.04	0.06	2.11e-03	-8.42e-05	1.80e-05	0.0
302	22	-0.03	0.07	-0.05	-9.18e-05	-2.68e-04	0.0
302	41	6.74e-03	0.08	-0.03	-1.57e-04	-1.11e-04	0.0
302	44	0.02	0.06	-0.01	-8.66e-05	-4.93e-05	0.0
302	46	-0.02	0.07	-0.04	-8.93e-05	-1.98e-04	0.0
302	58	1.36e-03	0.06	-0.06	3.19e-05	-3.01e-04	0.0
302	62	1.36e-03	0.06	-0.05	1.97e-06	-2.56e-04	0.0
302	65	1.35e-03	0.06	-0.02	-8.79e-05	-1.23e-04	0.0
303	1	9.81e-03	0.09	-0.08	4.32e-05	-4.07e-04	0.0
303	14	-4.46e-03	0.09	-0.07	-2.03e-04	-2.01e-04	0.0
303	16	0.02	0.10	-0.06	-2.23e-04	-1.22e-04	0.0
303	20	0.04	0.06	-3.92e-03	-8.54e-05	5.46e-06	0.0
303	38	-9.67e-05	0.08	-0.05	-1.48e-04	-1.68e-04	0.0
303	40	0.01	0.08	-0.04	-1.59e-04	-1.26e-04	0.0
303	44	0.03	0.06	-0.02	-8.76e-05	-6.04e-05	0.0
303	58	7.27e-03	0.06	-0.06	3.22e-05	-2.98e-04	0.0
303	62	7.25e-03	0.06	-0.05	1.95e-06	-2.57e-04	0.0
303	65	7.18e-03	0.06	-0.03	-8.87e-05	-1.33e-04	0.0
304	1	0.02	0.09	-0.08	4.49e-05	-4.07e-04	0.0
304	14	1.02e-03	0.09	-0.08	-2.04e-04	-2.19e-04	0.0
304	16	0.02	0.10	-0.07	-2.25e-04	-1.43e-04	0.0
304	20	0.05	0.06	-0.01	-8.71e-05	-7.48e-06	0.0
304	38	5.40e-03	0.08	-0.06	-1.49e-04	-1.82e-04	0.0
304	40	0.02	0.08	-0.05	-1.60e-04	-1.42e-04	0.0
304	44	0.04	0.06	-0.02	-8.87e-05	-7.22e-05	0.0
304	58	0.01	0.06	-0.06	3.33e-05	-2.98e-04	0.0
304	62	0.01	0.06	-0.05	2.71e-06	-2.59e-04	0.0
304	65	0.01	0.06	-0.04	-8.91e-05	-1.43e-04	0.0
305	1	0.03	0.09	-0.07	4.65e-05	-4.11e-04	0.0
305	14	6.60e-03	0.09	-0.10	-2.03e-04	-2.35e-04	0.0
305	16	0.03	0.10	-0.09	-2.28e-04	-1.61e-04	0.0
305	20	0.06	0.06	-0.02	-9.44e-05	-1.82e-05	0.0
305	38	0.01	0.08	-0.07	-1.49e-04	-1.95e-04	0.0
305	40	0.02	0.08	-0.07	-1.62e-04	-1.56e-04	0.0
305	44	0.04	0.06	-0.03	-9.34e-05	-8.26e-05	0.0
305	58	0.02	0.06	-0.05	3.44e-05	-3.01e-04	0.0
305	62	0.02	0.06	-0.05	3.24e-06	-2.64e-04	0.0
305	65	0.02	0.06	-0.04	-9.01e-05	-1.52e-04	0.0
306	1	-0.02	0.08	-0.06	4.31e-05	-2.22e-04	0.0
306	17	-1.96e-03	0.09	-2.64e-03	-1.89e-04	-4.05e-06	0.0
306	22	-0.04	0.06	-0.02	-8.96e-05	-1.14e-04	0.0
306	23	-0.04	0.06	-0.02	-8.96e-05	-1.15e-04	0.0
306	41	-5.86e-03	0.07	-4.22e-03	-1.36e-04	-1.92e-05	0.0
306	46	-0.03	0.06	-0.01	-8.33e-05	-7.39e-05	0.0
306	58	-0.01	0.06	-0.04	3.20e-05	-1.65e-04	0.0
306	62	-0.01	0.06	-0.03	4.71e-06	-1.33e-04	0.0
306	65	-0.01	0.06	-5.15e-03	-7.71e-05	-3.47e-05	0.0
307	1	-7.11e-03	0.08	-0.06	4.18e-05	-2.24e-04	0.0
307	17	3.97e-03	0.09	-0.02	-2.01e-04	-9.82e-06	0.0
307	22	-0.04	0.06	-0.03	-8.99e-05	-1.12e-04	0.0
307	23	-0.04	0.06	-0.03	-8.98e-05	-1.13e-04	0.0
307	41	6.40e-05	0.07	-0.01	-1.43e-04	-2.38e-05	0.0
307	46	-0.02	0.06	-0.02	-8.44e-05	-7.39e-05	0.0
307	58	-5.27e-03	0.06	-0.04	3.10e-05	-1.67e-04	0.0
307	62	-5.24e-03	0.06	-0.03	3.46e-06	-1.35e-04	0.0



307	65	-5.18e-03	0.06	-0.01	-7.93e-05	-3.81e-05	0.0
308	1	8.32e-04	0.08	-0.06	4.28e-05	-2.27e-04	0.0
308	5	8.54e-04	0.07	-0.03	-7.86e-06	5.41e-05	0.0
308	14	-0.01	0.09	-0.04	-1.89e-04	-5.60e-05	0.0
308	17	9.90e-03	0.09	-0.03	-2.05e-04	-1.37e-05	0.0
308	20	0.04	0.05	5.73e-04	-7.13e-05	2.91e-05	0.0
308	38	-6.27e-03	0.07	-0.03	-1.37e-04	-4.81e-05	0.0
308	41	5.98e-03	0.07	-0.02	-1.45e-04	-2.76e-05	0.0
308	44	0.02	0.05	-7.48e-03	-7.57e-05	-7.83e-06	0.0
308	58	6.16e-04	0.06	-0.04	3.18e-05	-1.69e-04	0.0
308	61	6.35e-04	0.06	-0.02	-2.42e-05	1.92e-05	0.0
308	62	6.22e-04	0.06	-0.03	3.93e-06	-1.37e-04	0.0
308	64	6.35e-04	0.06	-0.02	-2.42e-05	1.92e-05	0.0
308	65	6.41e-04	0.06	-0.02	-7.97e-05	-4.17e-05	0.0
309	1	8.78e-03	0.08	-0.05	4.36e-05	-2.31e-04	0.0
309	14	-5.23e-03	0.09	-0.06	-1.91e-04	-5.87e-05	0.0
309	17	0.02	0.09	-0.05	-2.08e-04	-2.76e-05	0.0
309	20	0.04	0.05	-4.57e-03	-7.38e-05	2.20e-05	0.0
309	38	-8.39e-04	0.07	-0.04	-1.38e-04	-5.12e-05	0.0
309	41	0.01	0.07	-0.03	-1.47e-04	-3.18e-05	0.0
309	44	0.03	0.05	-0.01	-7.74e-05	-1.35e-05	0.0
309	58	6.50e-03	0.06	-0.04	3.23e-05	-1.71e-04	0.0
309	62	6.49e-03	0.06	-0.03	4.09e-06	-1.40e-04	0.0
309	65	6.45e-03	0.06	-0.02	-8.07e-05	-4.54e-05	0.0
310	1	0.02	0.08	-0.05	4.59e-05	-2.33e-04	0.0
310	14	1.85e-04	0.09	-0.07	-1.93e-04	-6.14e-05	0.0
310	16	0.02	0.09	-0.06	-2.11e-04	-2.22e-05	0.0
310	20	0.05	0.05	-9.89e-03	-7.60e-05	1.47e-05	0.0
310	38	4.61e-03	0.07	-0.05	-1.40e-04	-5.43e-05	0.0
310	40	0.02	0.07	-0.05	-1.49e-04	-3.58e-05	0.0
310	44	0.03	0.05	-0.02	-7.91e-05	-1.94e-05	0.0
310	58	0.01	0.06	-0.03	3.40e-05	-1.73e-04	0.0
310	62	0.01	0.06	-0.03	5.13e-06	-1.42e-04	0.0
310	65	0.01	0.06	-0.03	-8.16e-05	-4.91e-05	0.0
311	1	0.02	0.08	-0.05	5.96e-05	-2.36e-04	0.0
311	14	5.60e-03	0.09	-0.08	-1.82e-04	-6.41e-05	0.0
311	16	0.03	0.09	-0.08	-2.02e-04	-2.79e-05	0.0
311	20	0.06	0.05	-0.02	-7.18e-05	5.81e-06	0.0
311	38	0.01	0.07	-0.06	-1.31e-04	-5.74e-05	0.0
311	40	0.02	0.07	-0.06	-1.41e-04	-4.07e-05	0.0
311	44	0.04	0.05	-0.02	-7.37e-05	-2.62e-05	0.0
311	58	0.02	0.06	-0.03	4.39e-05	-1.75e-04	0.0
311	59	0.02	0.06	-0.03	1.44e-05	-1.45e-04	0.0
311	62	0.02	0.06	-0.03	1.44e-05	-1.45e-04	0.0
311	65	0.02	0.06	-0.03	-7.43e-05	-5.30e-05	0.0
312	1	-0.02	0.07	-0.05	4.37e-05	-8.86e-05	0.0
312	3	-0.02	0.07	-0.05	3.07e-05	8.33e-05	0.0
312	17	-2.41e-03	0.08	-4.02e-03	-1.91e-04	5.84e-05	0.0
312	22	-0.04	0.06	-0.02	-9.35e-05	-3.76e-05	0.0
312	23	-0.04	0.06	-0.02	-9.34e-05	-4.14e-05	0.0
312	41	-6.30e-03	0.07	-4.85e-03	-1.37e-04	4.27e-05	0.0
312	46	-0.03	0.06	-0.01	-8.55e-05	-4.52e-06	0.0
312	58	-0.01	0.05	-0.04	3.24e-05	-6.80e-05	0.0
312	60	-0.01	0.05	-0.02	-2.19e-06	5.11e-05	0.0
312	62	-0.01	0.05	-0.03	5.03e-06	-4.44e-05	0.0
312	63	-0.01	0.05	-0.02	-2.19e-06	5.11e-05	0.0
312	65	-0.01	0.05	-5.00e-03	-7.72e-05	2.63e-05	0.0
313	1	-7.70e-03	0.07	-0.05	4.52e-05	-9.33e-05	0.0
313	3	-7.60e-03	0.07	-0.04	2.22e-05	7.95e-05	0.0
313	14	-0.02	0.08	-0.03	-1.89e-04	3.01e-05	0.0
313	17	3.51e-03	0.08	-0.02	-2.03e-04	6.90e-05	0.0
313	23	-0.04	0.06	-0.02	-9.09e-05	-3.85e-05	0.0
313	38	-0.01	0.07	-0.02	-1.36e-04	2.98e-05	0.0
313	41	-3.83e-04	0.07	-0.01	-1.44e-04	4.91e-05	0.0
313	46	-0.03	0.06	-0.02	-8.47e-05	-1.97e-06	0.0
313	58	-5.71e-03	0.05	-0.04	3.35e-05	-7.15e-05	0.0
313	60	-5.62e-03	0.05	-0.03	-7.22e-06	4.94e-05	0.0
313	62	-5.68e-03	0.05	-0.03	5.54e-06	-4.66e-05	0.0
313	63	-5.62e-03	0.05	-0.03	-7.22e-06	4.94e-05	0.0
313	65	-5.60e-03	0.05	-0.01	-7.84e-05	2.81e-05	0.0
314	1	2.15e-04	0.07	-0.05	4.62e-05	-9.94e-05	0.0
314	3	1.70e-04	0.07	-0.04	2.12e-05	7.05e-05	0.0
314	5	2.75e-04	0.07	-0.03	-2.08e-06	1.53e-04	0.0
314	14	-0.01	0.08	-0.04	-1.90e-04	3.63e-05	0.0
314	17	9.43e-03	0.08	-0.03	-2.05e-04	7.51e-05	0.0

314	20	0.03	0.04	-2.57e-03	-6.79e-05	9.34e-05	0.0
314	38	-6.72e-03	0.07	-0.03	-1.37e-04	3.34e-05	0.0
314	41	5.53e-03	0.07	-0.03	-1.45e-04	5.25e-05	0.0
314	44	0.02	0.05	-8.82e-03	-7.31e-05	5.87e-05	0.0
314	58	1.59e-04	0.05	-0.03	3.43e-05	-7.60e-05	0.0
314	60	1.47e-04	0.05	-0.03	-7.80e-06	4.46e-05	0.0
314	61	2.05e-04	0.05	-0.02	-2.07e-05	9.03e-05	0.0
314	62	1.72e-04	0.05	-0.03	6.10e-06	-4.98e-05	0.0
314	63	1.47e-04	0.05	-0.03	-7.80e-06	4.46e-05	0.0
314	64	2.05e-04	0.05	-0.02	-2.07e-05	9.03e-05	0.0
314	65	2.10e-04	0.05	-0.02	-7.84e-05	2.86e-05	0.0
315	1	8.14e-03	0.07	-0.04	4.62e-05	-1.05e-04	0.0
315	3	7.93e-03	0.07	-0.04	1.96e-05	6.15e-05	0.0
315	14	-5.71e-03	0.08	-0.05	-1.92e-04	4.17e-05	0.0
315	17	0.02	0.08	-0.05	-2.08e-04	7.97e-05	0.0
315	20	0.04	0.04	-7.46e-03	-7.03e-05	9.10e-05	0.0
315	38	-1.30e-03	0.07	-0.04	-1.38e-04	3.65e-05	0.0
315	41	0.01	0.07	-0.04	-1.47e-04	5.51e-05	0.0
315	44	0.03	0.05	-0.01	-7.50e-05	5.74e-05	0.0
315	58	6.03e-03	0.05	-0.03	3.43e-05	-7.99e-05	0.0
315	62	6.03e-03	0.05	-0.03	5.80e-06	-5.27e-05	0.0
315	63	5.91e-03	0.05	-0.03	-8.95e-06	3.97e-05	0.0
315	65	6.01e-03	0.05	-0.02	-7.96e-05	2.90e-05	0.0
316	1	0.02	0.07	-0.04	4.85e-05	-1.08e-04	0.0
316	3	0.02	0.07	-0.04	1.95e-05	5.41e-05	0.0
316	14	-3.21e-04	0.08	-0.07	-1.93e-04	4.81e-05	0.0
316	16	0.02	0.08	-0.07	-2.10e-04	8.84e-05	0.0
316	20	0.05	0.04	-0.01	-7.21e-05	8.78e-05	0.0
316	38	4.13e-03	0.07	-0.05	-1.39e-04	4.04e-05	0.0
316	40	0.02	0.07	-0.05	-1.48e-04	5.92e-05	0.0
316	44	0.03	0.05	-0.02	-7.61e-05	5.58e-05	0.0
316	58	0.01	0.05	-0.03	3.60e-05	-8.25e-05	0.0
316	62	0.01	0.05	-0.03	7.00e-06	-5.45e-05	0.0
316	63	0.01	0.05	-0.03	-9.12e-06	3.58e-05	0.0
316	65	0.01	0.05	-0.03	-7.99e-05	2.97e-05	0.0
317	1	0.02	0.07	-0.04	5.54e-05	-1.07e-04	0.0
317	3	0.02	0.07	-0.04	2.34e-05	5.17e-05	0.0
317	14	4.99e-03	0.08	-0.08	-1.89e-04	5.60e-05	0.0
317	16	0.03	0.08	-0.08	-2.04e-04	9.50e-05	0.0
317	20	0.05	0.04	-0.02	-6.58e-05	8.65e-05	0.0
317	38	9.50e-03	0.07	-0.06	-1.35e-04	4.57e-05	0.0
317	40	0.02	0.07	-0.06	-1.43e-04	6.37e-05	0.0
317	44	0.04	0.05	-0.02	-7.10e-05	5.60e-05	0.0
317	58	0.02	0.05	-0.03	4.10e-05	-8.19e-05	0.0
317	60	0.02	0.05	-0.03	-6.01e-06	3.50e-05	0.0
317	62	0.02	0.05	-0.03	1.17e-05	-5.34e-05	0.0
317	63	0.02	0.05	-0.03	-6.01e-06	3.50e-05	0.0
317	65	0.02	0.05	-0.03	-7.60e-05	3.21e-05	0.0
318	1	-0.02	0.05	-0.04	3.08e-05	-1.11e-04	0.0
318	5	-0.02	0.05	-0.06	-2.06e-05	1.84e-04	0.0
318	15	-0.02	0.07	-0.02	-1.91e-04	4.92e-05	0.0
318	16	-4.01e-03	0.07	-0.02	-2.08e-04	1.14e-04	0.0
318	22	-0.05	0.05	-7.55e-03	-9.62e-05	-5.37e-05	0.0
318	39	-0.02	0.06	-0.01	-1.43e-04	4.49e-05	0.0
318	40	-7.82e-03	0.06	-0.02	-1.51e-04	7.82e-05	0.0
318	46	-0.03	0.04	-8.70e-03	-9.30e-05	-8.73e-06	0.0
318	58	-0.01	0.04	-0.02	2.31e-05	-8.04e-05	0.0
318	61	-0.01	0.04	-0.03	-3.35e-05	1.14e-04	0.0
318	62	-0.01	0.04	-0.02	-4.91e-06	-5.05e-05	0.0
318	64	-0.01	0.04	-0.03	-3.35e-05	1.14e-04	0.0
318	65	-0.01	0.04	-0.01	-8.91e-05	3.93e-05	0.0
319	1	-9.65e-03	0.05	-0.03	4.45e-05	-1.03e-04	0.0
319	5	-9.29e-03	0.05	-0.06	-1.56e-06	1.88e-04	0.0
319	15	-0.02	0.07	-0.03	-1.95e-04	4.28e-05	0.0
319	16	1.97e-03	0.07	-0.04	-2.11e-04	1.07e-04	0.0
319	23	-0.04	0.05	-0.01	-9.28e-05	-5.50e-05	0.0
319	39	-0.01	0.06	-0.02	-1.42e-04	4.20e-05	0.0
319	40	-1.87e-03	0.06	-0.03	-1.50e-04	7.47e-05	0.0
319	46	-0.03	0.04	-0.02	-8.80e-05	-8.32e-06	0.0
319	58	-7.15e-03	0.04	-0.02	3.30e-05	-7.46e-05	0.0
319	61	-6.91e-03	0.04	-0.04	-2.15e-05	1.16e-04	0.0
319	62	-7.12e-03	0.04	-0.02	4.12e-06	-4.60e-05	0.0
319	64	-6.91e-03	0.04	-0.04	-2.15e-05	1.16e-04	0.0
319	65	-7.01e-03	0.04	-0.02	-8.25e-05	3.99e-05	0.0
320	1	-1.77e-03	0.05	-0.03	5.03e-05	-1.01e-04	0.0

320	5	-1.63e-03	0.05	-0.06	6.19e-06	1.83e-04	0.0
320	15	-0.01	0.07	-0.04	-1.92e-04	3.56e-05	0.0
320	16	7.92e-03	0.07	-0.05	-2.07e-04	9.85e-05	0.0
320	23	-0.04	0.05	-0.02	-9.04e-05	-5.79e-05	0.0
320	39	-8.18e-03	0.06	-0.03	-1.38e-04	3.68e-05	0.0
320	40	4.06e-03	0.06	-0.04	-1.46e-04	6.88e-05	0.0
320	46	-0.02	0.04	-0.02	-8.47e-05	-1.12e-05	0.0
320	58	-1.31e-03	0.04	-0.02	3.72e-05	-7.30e-05	0.0
320	61	-1.20e-03	0.04	-0.04	-1.62e-05	1.12e-04	0.0
320	62	-1.28e-03	0.04	-0.02	8.31e-06	-4.56e-05	0.0
320	64	-1.20e-03	0.04	-0.04	-1.62e-05	1.12e-04	0.0
320	65	-1.20e-03	0.04	-0.02	-7.84e-05	3.66e-05	0.0
321	1	6.10e-03	0.05	-0.03	5.08e-05	-1.01e-04	0.0
321	5	5.98e-03	0.05	-0.06	6.33e-06	1.76e-04	0.0
321	14	-7.26e-03	0.07	-0.06	-1.92e-04	2.82e-05	0.0
321	16	0.01	0.07	-0.07	-2.06e-04	8.85e-05	0.0
321	20	0.04	0.03	-0.03	-6.45e-05	1.25e-04	0.0
321	38	-2.78e-03	0.06	-0.04	-1.38e-04	3.05e-05	0.0
321	40	9.95e-03	0.06	-0.05	-1.45e-04	6.12e-05	0.0
321	44	0.03	0.03	-0.03	-7.06e-05	7.90e-05	0.0
321	59	4.53e-03	0.04	-0.02	8.81e-06	-4.68e-05	0.0
321	61	4.47e-03	0.04	-0.04	-1.59e-05	1.07e-04	0.0
321	62	4.53e-03	0.04	-0.02	8.81e-06	-4.68e-05	0.0
321	64	4.47e-03	0.04	-0.04	-1.59e-05	1.07e-04	0.0
321	65	4.58e-03	0.04	-0.03	-7.75e-05	3.18e-05	0.0
322	1	-0.06	0.10	-0.14	2.92e-04	-2.72e-04	0.0
322	3	-0.06	0.10	-0.08	3.35e-04	-5.85e-05	0.0
322	5	-0.06	0.10	-0.03	2.69e-04	7.93e-05	0.0
322	17	-0.04	0.10	0.05	1.21e-04	8.04e-05	0.0
322	19	-0.08	0.06	-0.07	2.52e-04	-2.23e-04	0.0
322	25	-0.02	0.08	0.07	3.02e-05	1.79e-04	0.0
322	41	-0.04	0.09	0.03	1.33e-04	3.15e-05	0.0
322	42	-0.06	0.06	-0.03	1.96e-04	-1.27e-04	0.0
322	48	-0.03	0.08	0.04	8.81e-05	8.29e-05	0.0
322	58	-0.05	0.07	-0.10	2.15e-04	-2.00e-04	0.0
322	60	-0.05	0.07	-0.04	2.21e-04	-3.68e-05	0.0
322	61	-0.05	0.07	-0.01	1.84e-04	3.98e-05	0.0
322	62	-0.05	0.07	-0.07	1.97e-04	-1.55e-04	0.0
322	63	-0.05	0.07	-0.04	2.21e-04	-3.68e-05	0.0
322	64	-0.05	0.07	-0.01	1.84e-04	3.98e-05	0.0
322	65	-0.05	0.07	2.14e-03	1.42e-04	-2.20e-05	0.0
323	1	-0.06	0.03	-0.02	9.75e-05	7.08e-06	0.0
323	5	-0.06	0.03	-0.10	7.71e-05	4.38e-04	0.0
323	14	-0.05	0.05	0.03	-1.13e-04	0.0	0.0
323	18	-0.07	0.01	0.05	-1.41e-05	-1.75e-04	0.0
323	23	-0.07	0.03	0.06	-6.53e-05	-1.90e-04	0.0
323	38	-0.05	0.04	0.02	-7.22e-05	3.93e-05	0.0
323	42	-0.06	0.02	0.03	-2.07e-05	-4.95e-05	0.0
323	46	-0.06	0.03	0.03	-4.67e-05	-5.31e-05	0.0
323	59	-0.04	0.02	-5.55e-03	4.71e-05	2.29e-05	0.0
323	61	-0.04	0.02	-0.05	3.58e-05	2.63e-04	0.0
323	62	-0.04	0.02	-5.55e-03	4.71e-05	2.29e-05	0.0
323	64	-0.04	0.02	-0.05	3.58e-05	2.63e-04	0.0
323	65	-0.04	0.02	5.79e-03	-2.70e-05	8.53e-05	0.0
324	1	-0.02	0.08	-0.06	4.53e-05	-2.19e-04	0.0
324	17	-5.93e-03	0.09	6.09e-03	-1.80e-04	8.46e-06	0.0
324	18	-0.05	0.04	-0.02	-2.70e-05	-1.23e-04	0.0
324	23	-0.05	0.06	-0.02	-8.68e-05	-1.16e-04	0.0
324	41	-9.83e-03	0.07	2.07e-03	-1.30e-04	-1.06e-05	0.0
324	42	-0.03	0.05	-0.01	-4.92e-05	-7.65e-05	0.0
324	46	-0.03	0.06	-0.01	-8.07e-05	-7.25e-05	0.0
324	58	-0.02	0.06	-0.05	3.35e-05	-1.63e-04	0.0
324	62	-0.02	0.06	-0.03	6.44e-06	-1.30e-04	0.0
324	65	-0.01	0.06	-1.57e-03	-7.47e-05	-3.03e-05	0.0
325	1	-0.06	0.08	-0.09	3.47e-04	-1.97e-04	0.0
325	5	-0.06	0.08	-0.04	2.63e-04	9.21e-05	0.0
325	17	-0.04	0.09	0.04	4.81e-05	5.10e-05	0.0
325	19	-0.08	0.05	-0.03	2.15e-04	-1.85e-04	0.0
325	25	-0.02	0.07	0.04	1.18e-05	1.46e-04	0.0
325	41	-0.04	0.08	0.02	8.14e-05	1.73e-05	0.0
325	42	-0.06	0.05	-0.01	1.67e-04	-1.04e-04	0.0
325	48	-0.03	0.06	0.02	6.47e-05	6.61e-05	0.0
325	58	-0.05	0.06	-0.07	2.55e-04	-1.45e-04	0.0
325	61	-0.05	0.06	-0.02	1.74e-04	4.67e-05	0.0
325	62	-0.05	0.06	-0.05	2.20e-04	-1.14e-04	0.0

325	64	-0.05	0.06	-0.02	1.74e-04	4.67e-05	0.0
325	65	-0.05	0.06	5.99e-03	1.15e-04	-1.92e-05	0.0
326	1	-0.06	0.03	-0.02	1.45e-04	-4.89e-05	0.0
326	5	-0.06	0.03	-0.10	1.52e-04	3.61e-04	0.0
326	14	-0.05	0.05	0.04	-1.12e-04	-4.70e-05	0.0
326	18	-0.08	0.01	0.05	-8.70e-06	-2.00e-04	0.0
326	23	-0.08	0.03	0.06	-6.85e-05	-2.20e-04	0.0
326	38	-0.05	0.04	0.02	-6.46e-05	-4.79e-06	0.0
326	42	-0.06	0.02	0.03	-1.05e-05	-8.14e-05	0.0
326	46	-0.06	0.03	0.03	-4.01e-05	-8.86e-05	0.0
326	59	-0.05	0.02	-0.01	7.66e-05	-1.76e-05	0.0
326	61	-0.05	0.02	-0.05	8.06e-05	2.10e-04	0.0
326	62	-0.05	0.02	-0.01	7.66e-05	-1.76e-05	0.0
326	64	-0.05	0.02	-0.05	8.06e-05	2.10e-04	0.0
326	65	-0.05	0.02	7.19e-03	-1.15e-05	4.55e-05	0.0
327	1	0.01	0.05	-0.02	4.93e-05	-1.03e-04	0.0
327	5	0.01	0.05	-0.06	5.53e-06	1.67e-04	0.0
327	14	-1.93e-03	0.07	-0.07	-1.94e-04	1.76e-05	0.0
327	16	0.02	0.07	-0.08	-2.07e-04	7.58e-05	0.0
327	20	0.05	0.03	-0.04	-6.34e-05	1.17e-04	0.0
327	38	2.59e-03	0.06	-0.05	-1.39e-04	2.20e-05	0.0
327	40	0.02	0.06	-0.06	-1.46e-04	5.15e-05	0.0
327	44	0.03	0.03	-0.03	-7.02e-05	7.14e-05	0.0
327	59	0.01	0.04	-0.02	7.88e-06	-4.91e-05	0.0
327	61	0.01	0.04	-0.04	-1.64e-05	1.01e-04	0.0
327	62	0.01	0.04	-0.02	7.88e-06	-4.91e-05	0.0
327	64	0.01	0.04	-0.04	-1.64e-05	1.01e-04	0.0
327	65	0.01	0.04	-0.03	-7.80e-05	2.54e-05	0.0
328	1	0.02	0.05	-0.02	4.90e-05	-1.04e-04	0.0
328	5	0.02	0.05	-0.06	7.03e-06	1.60e-04	0.0
328	14	3.40e-03	0.07	-0.09	-1.93e-04	8.22e-06	0.0
328	16	0.03	0.07	-0.10	-2.07e-04	6.42e-05	0.0
328	20	0.05	0.03	-0.04	-6.38e-05	1.09e-04	0.0
328	38	7.98e-03	0.06	-0.06	-1.38e-04	1.47e-05	0.0
328	40	0.02	0.06	-0.07	-1.45e-04	4.30e-05	0.0
328	44	0.04	0.03	-0.04	-7.03e-05	6.50e-05	0.0
328	58	0.02	0.04	-0.01	3.63e-05	-7.46e-05	0.0
328	61	0.02	0.04	-0.04	-1.55e-05	9.57e-05	0.0
328	62	0.02	0.04	-0.02	7.84e-06	-5.09e-05	0.0
328	64	0.02	0.04	-0.04	-1.55e-05	9.57e-05	0.0
328	65	0.02	0.04	-0.04	-7.77e-05	2.03e-05	0.0
329	1	-0.02	0.09	-0.09	4.01e-05	-4.19e-04	0.0
329	17	-5.20e-03	0.10	4.66e-03	-2.11e-04	-3.32e-05	0.0
329	18	-0.05	0.05	-0.04	-2.16e-05	-2.63e-04	0.0
329	23	-0.05	0.07	-0.03	-9.06e-05	-2.52e-04	0.0
329	41	-9.13e-03	0.08	-1.49e-03	-1.52e-04	-6.37e-05	0.0
329	42	-0.03	0.06	-0.02	-5.21e-05	-1.84e-04	0.0
329	46	-0.03	0.07	-0.02	-8.83e-05	-1.79e-04	0.0
329	58	-0.01	0.06	-0.07	2.98e-05	-3.08e-04	0.0
329	62	-0.01	0.06	-0.05	0.0	-2.55e-04	0.0
329	65	-0.01	0.06	-7.36e-03	-8.70e-05	-9.65e-05	0.0
330	1	-0.02	0.04	-0.03	3.05e-05	-7.09e-05	0.0
330	5	-0.02	0.04	-0.07	-1.89e-05	2.66e-04	0.0
330	15	-0.02	0.07	-0.02	-1.89e-04	8.07e-05	0.0
330	22	-0.05	0.04	-4.93e-03	-9.64e-05	-4.58e-05	0.0
330	24	0.02	0.04	-0.03	-1.44e-04	2.24e-04	0.0
330	39	-0.02	0.05	-0.02	-1.41e-04	7.75e-05	0.0
330	46	-0.03	0.04	-9.04e-03	-9.23e-05	1.09e-05	0.0
330	48	5.26e-03	0.04	-0.02	-1.17e-04	1.51e-04	0.0
330	58	-0.01	0.03	-0.02	2.29e-05	-5.17e-05	0.0
330	61	-0.01	0.03	-0.04	-3.21e-05	1.67e-04	0.0
330	62	-0.01	0.03	-0.02	-4.65e-06	-2.06e-05	0.0
330	64	-0.01	0.03	-0.04	-3.21e-05	1.67e-04	0.0
330	65	-0.01	0.03	-0.01	-8.72e-05	7.25e-05	0.0
331	1	-0.03	0.09	-0.09	3.01e-05	-4.28e-04	0.0
331	17	-0.01	0.10	0.02	-2.14e-04	-3.97e-06	0.0
331	18	-0.05	0.05	-0.04	-2.43e-05	-2.69e-04	0.0
331	23	-0.05	0.07	-0.03	-9.24e-05	-2.48e-04	0.0
331	41	-0.01	0.08	8.66e-03	-1.56e-04	-4.40e-05	0.0
331	42	-0.04	0.06	-0.02	-5.51e-05	-1.82e-04	0.0
331	46	-0.04	0.07	-0.02	-9.09e-05	-1.73e-04	0.0
331	58	-0.02	0.06	-0.07	2.25e-05	-3.14e-04	0.0
331	62	-0.02	0.06	-0.05	-5.76e-06	-2.57e-04	0.0
331	65	-0.02	0.06	-1.49e-03	-9.07e-05	-8.73e-05	0.0
332	1	-0.03	0.08	-0.07	3.26e-05	-2.00e-04	0.0

332	17	-0.01	0.09	0.02	-1.68e-04	3.75e-05	0.0
332	22	-0.05	0.06	-0.01	-8.26e-05	-1.06e-04	0.0
332	25	0.01	0.07	0.03	-1.19e-04	8.88e-05	0.0
332	41	-0.02	0.07	0.01	-1.24e-04	1.13e-05	0.0
332	46	-0.04	0.06	-5.16e-03	-7.80e-05	-6.15e-05	0.0
332	48	-2.91e-03	0.06	0.01	-9.83e-05	3.72e-05	0.0
332	58	-0.02	0.06	-0.05	2.42e-05	-1.49e-04	0.0
332	62	-0.02	0.06	-0.03	0.0	-1.16e-04	0.0
332	65	-0.02	0.06	3.31e-03	-7.41e-05	-1.62e-05	0.0
333	1	-0.03	0.09	-0.10	-2.60e-06	-4.46e-04	0.0
333	17	-0.02	0.10	0.03	-1.99e-04	3.80e-05	0.0
333	22	-0.06	0.07	-0.02	-8.80e-05	-2.42e-04	0.0
333	25	5.03e-03	0.08	0.04	-1.52e-04	1.25e-04	0.0
333	41	-0.02	0.08	0.02	-1.47e-04	-1.65e-05	0.0
333	46	-0.04	0.07	-9.63e-03	-8.80e-05	-1.63e-04	0.0
333	48	-8.49e-03	0.07	0.02	-1.24e-04	2.78e-05	0.0
333	58	-0.03	0.06	-0.07	-1.19e-06	-3.27e-04	0.0
333	62	-0.03	0.06	-0.05	-2.35e-05	-2.65e-04	0.0
333	65	-0.03	0.06	4.56e-03	-9.03e-05	-7.59e-05	0.0
334	1	-0.04	0.08	-0.07	1.35e-06	-1.80e-04	0.0
334	3	-0.03	0.08	-0.05	8.42e-06	7.37e-05	0.0
334	17	-0.02	0.09	0.03	-1.43e-04	6.63e-05	0.0
334	22	-0.06	0.06	-8.84e-03	-6.89e-05	-9.85e-05	0.0
334	25	4.42e-03	0.07	0.03	-1.09e-04	1.16e-04	0.0
334	41	-0.02	0.07	0.02	-1.07e-04	3.29e-05	0.0
334	46	-0.04	0.06	-2.10e-04	-6.81e-05	-5.13e-05	0.0
334	48	-9.08e-03	0.06	0.02	-9.07e-05	5.83e-05	0.0
334	58	-0.03	0.06	-0.05	1.83e-06	-1.34e-04	0.0
334	60	-0.03	0.06	-0.02	-1.18e-05	3.95e-05	0.0
334	62	-0.03	0.06	-0.03	-1.58e-05	-1.01e-04	0.0
334	63	-0.03	0.06	-0.02	-1.18e-05	3.95e-05	0.0
334	65	-0.03	0.06	8.12e-03	-6.86e-05	-2.50e-06	0.0
335	1	-0.05	0.09	-0.09	-2.08e-05	-4.25e-04	0.0
335	2	-0.03	0.06	-0.09	-4.19e-06	-4.07e-04	0.0
335	3	-0.05	0.09	-0.05	5.10e-06	-1.08e-04	0.0
335	17	-0.02	0.10	0.05	-8.97e-05	1.16e-04	0.0
335	19	-0.06	0.05	-0.03	9.58e-06	-2.56e-04	0.0
335	25	-4.03e-03	0.08	0.05	-9.00e-05	1.81e-04	0.0
335	41	-0.03	0.08	0.03	-6.57e-05	4.21e-05	0.0
335	42	-0.05	0.06	-0.01	-1.59e-05	-1.55e-04	0.0
335	48	-0.02	0.07	0.03	-6.72e-05	7.50e-05	0.0
335	58	-0.03	0.06	-0.07	-1.38e-05	-3.12e-04	0.0
335	60	-0.03	0.06	-0.02	-6.28e-06	-6.76e-05	0.0
335	62	-0.03	0.06	-0.05	-2.06e-05	-2.44e-04	0.0
335	63	-0.03	0.06	-0.02	-6.28e-06	-6.76e-05	0.0
335	65	-0.03	0.06	0.01	-4.12e-05	-3.94e-05	0.0
336	1	-0.05	0.08	-0.07	1.80e-05	-1.54e-04	0.0
336	2	-0.03	0.06	-0.07	2.94e-05	-1.57e-04	0.0
336	3	-0.05	0.08	-0.05	1.21e-05	8.47e-05	0.0
336	17	-0.02	0.09	0.04	-7.41e-05	7.52e-05	0.0
336	18	-0.06	0.05	-0.02	1.76e-05	-1.24e-04	0.0
336	25	-4.34e-03	0.07	0.04	-7.12e-05	1.33e-04	0.0
336	41	-0.03	0.07	0.03	-5.04e-05	4.08e-05	0.0
336	42	-0.05	0.05	-1.73e-03	-3.94e-06	-6.18e-05	0.0
336	48	-0.02	0.06	0.03	-5.01e-05	7.11e-05	0.0
336	58	-0.03	0.06	-0.05	1.48e-05	-1.15e-04	0.0
336	60	-0.03	0.06	-0.02	1.15e-06	4.73e-05	0.0
336	62	-0.03	0.06	-0.03	4.42e-06	-8.51e-05	0.0
336	63	-0.03	0.06	-0.02	1.15e-06	4.73e-05	0.0
336	65	-0.03	0.06	0.01	-2.68e-05	4.39e-06	0.0
337	1	-0.05	0.10	-0.13	-3.16e-05	-3.80e-04	0.0
337	5	-0.05	0.10	-0.01	8.40e-05	5.27e-05	0.0
337	17	-0.03	0.10	0.06	9.32e-05	1.40e-04	0.0
337	19	-0.07	0.06	-0.05	6.98e-05	-2.47e-04	0.0
337	25	-0.01	0.08	0.08	3.45e-05	2.17e-04	0.0
337	41	-0.04	0.09	0.04	7.52e-05	6.56e-05	0.0
337	42	-0.06	0.06	-0.03	5.53e-05	-1.40e-04	0.0
337	48	-0.02	0.08	0.04	4.45e-05	1.06e-04	0.0
337	58	-0.04	0.07	-0.09	-2.05e-05	-2.78e-04	0.0
337	59	-0.04	0.07	-0.07	-2.79e-06	-2.13e-04	0.0
337	61	-0.04	0.07	-4.01e-03	6.15e-05	2.77e-05	0.0
337	62	-0.04	0.07	-0.07	-2.79e-06	-2.13e-04	0.0
337	64	-0.04	0.07	-4.01e-03	6.15e-05	2.77e-05	0.0
337	65	-0.04	0.07	9.53e-03	5.04e-05	-1.66e-05	0.0
338	1	-0.05	0.09	-0.10	9.77e-05	-3.21e-04	0.0

338	2	-0.04	0.06	-0.10	8.23e-05	-3.12e-04	0.0
338	5	-0.05	0.09	-0.02	1.12e-04	6.88e-05	0.0
338	17	-0.03	0.10	0.05	3.01e-05	1.10e-04	0.0
338	19	-0.07	0.05	-0.03	1.09e-04	-2.22e-04	0.0
338	25	-0.01	0.08	0.06	-1.43e-05	1.89e-04	0.0
338	41	-0.03	0.08	0.03	4.00e-05	4.93e-05	0.0
338	42	-0.06	0.06	-0.01	7.75e-05	-1.26e-04	0.0
338	48	-0.02	0.07	0.03	1.67e-05	9.01e-05	0.0
338	58	-0.04	0.06	-0.07	7.32e-05	-2.36e-04	0.0
338	59	-0.04	0.06	-0.05	6.67e-05	-1.81e-04	0.0
338	61	-0.04	0.06	-6.83e-03	7.49e-05	3.55e-05	0.0
338	62	-0.04	0.06	-0.05	6.67e-05	-1.81e-04	0.0
338	64	-0.04	0.06	-6.83e-03	7.49e-05	3.55e-05	0.0
338	65	-0.04	0.06	0.01	4.72e-05	-1.77e-05	0.0
339	1	-0.06	0.09	-0.11	3.33e-04	-2.63e-04	0.0
339	5	-0.06	0.09	-0.03	2.73e-04	7.81e-05	0.0
339	17	-0.04	0.10	0.04	8.11e-05	7.40e-05	0.0
339	19	-0.08	0.05	-0.05	2.43e-04	-2.17e-04	0.0
339	25	-0.02	0.08	0.06	1.49e-05	1.71e-04	0.0
339	41	-0.04	0.08	0.02	1.06e-04	2.76e-05	0.0
339	42	-0.06	0.06	-0.02	1.88e-04	-1.24e-04	0.0
339	48	-0.03	0.07	0.03	7.40e-05	7.76e-05	0.0
339	58	-0.05	0.06	-0.08	2.45e-04	-1.93e-04	0.0
339	61	-0.05	0.06	-0.02	1.83e-04	3.86e-05	0.0
339	62	-0.05	0.06	-0.06	2.16e-04	-1.51e-04	0.0
339	64	-0.05	0.06	-0.02	1.83e-04	3.86e-05	0.0
339	65	-0.05	0.06	4.17e-03	1.30e-04	-2.32e-05	0.0
340	1	-0.05	0.08	-0.07	1.41e-04	-1.76e-04	0.0
340	2	-0.04	0.06	-0.08	1.27e-04	-1.74e-04	0.0
340	5	-0.05	0.08	-0.03	1.07e-04	1.20e-04	0.0
340	17	-0.03	0.09	0.04	0.0	6.58e-05	0.0
340	19	-0.07	0.05	-0.02	1.06e-04	-1.51e-04	0.0
340	25	-0.01	0.07	0.04	-2.23e-05	1.38e-04	0.0
340	41	-0.04	0.08	0.03	2.19e-05	3.11e-05	0.0
340	42	-0.06	0.05	-4.39e-03	7.43e-05	-8.04e-05	0.0
340	48	-0.02	0.06	0.03	9.92e-06	6.85e-05	0.0
340	58	-0.04	0.06	-0.05	1.05e-04	-1.31e-04	0.0
340	59	-0.04	0.06	-0.04	8.95e-05	-9.95e-05	0.0
340	61	-0.04	0.06	-0.01	7.03e-05	6.50e-05	0.0
340	62	-0.04	0.06	-0.04	8.95e-05	-9.95e-05	0.0
340	64	-0.04	0.06	-0.01	7.03e-05	6.50e-05	0.0
340	65	-0.04	0.06	0.01	4.21e-05	-6.11e-06	0.0
341	1	-0.07	0.10	-0.17	4.89e-04	-2.52e-04	0.0
341	3	-0.07	0.10	-0.11	4.52e-04	-7.59e-05	0.0
341	17	-0.04	0.10	0.04	2.72e-05	3.94e-05	0.0
341	18	-0.08	0.06	-0.09	3.32e-04	-2.45e-04	0.0
341	19	-0.08	0.06	-0.09	3.26e-04	-2.46e-04	0.0
341	41	-0.05	0.09	0.02	7.93e-05	1.30e-06	0.0
341	42	-0.07	0.06	-0.05	2.37e-04	-1.46e-04	0.0
341	58	-0.05	0.07	-0.12	3.58e-04	-1.85e-04	0.0
341	60	-0.05	0.07	-0.06	2.83e-04	-5.12e-05	0.0
341	62	-0.05	0.07	-0.09	3.03e-04	-1.49e-04	0.0
341	63	-0.05	0.07	-0.06	2.83e-04	-5.12e-05	0.0
341	65	-0.05	0.07	-8.94e-03	1.39e-04	-3.95e-05	0.0
342	1	-0.07	0.09	-0.14	4.96e-04	-4.40e-04	0.0
342	3	-0.07	0.09	-0.10	4.32e-04	-6.64e-05	0.0
342	5	-0.07	0.09	-0.06	3.34e-04	8.45e-05	0.0
342	17	-0.04	0.10	0.04	3.09e-06	4.77e-05	0.0
342	18	-0.08	0.05	-0.07	3.04e-04	-2.35e-04	0.0
342	19	-0.08	0.05	-0.07	2.97e-04	-2.35e-04	0.0
342	41	-0.05	0.08	0.02	6.11e-05	9.57e-06	0.0
342	42	-0.07	0.06	-0.04	2.17e-04	-1.37e-04	0.0
342	58	-0.05	0.06	-0.10	3.63e-04	-1.77e-04	0.0
342	60	-0.05	0.07	-0.06	2.69e-04	-4.41e-05	0.0
342	61	-0.05	0.07	-0.03	2.14e-04	3.97e-05	0.0
342	62	-0.05	0.07	-0.08	3.04e-04	-1.41e-04	0.0
342	63	-0.05	0.07	-0.06	2.69e-04	-4.41e-05	0.0
342	64	-0.05	0.07	-0.03	2.14e-04	3.97e-05	0.0
342	65	-0.05	0.07	-5.85e-03	1.28e-04	-3.19e-05	0.0
343	1	-0.07	0.08	-0.12	4.82e-04	-2.20e-04	0.0
343	5	-0.07	0.08	-0.07	3.38e-04	8.43e-05	0.0
343	17	-0.04	0.09	0.04	-1.55e-05	3.76e-05	0.0
343	18	-0.08	0.05	-0.05	2.62e-04	-2.24e-04	0.0
343	19	-0.08	0.05	-0.05	2.54e-04	-2.25e-04	0.0
343	41	-0.05	0.08	0.02	4.50e-05	4.15e-06	0.0

343	42	-0.07	0.05	-0.03	1.90e-04	-1.31e-04	0.0
343	58	-0.05	0.06	-0.09	3.53e-04	-1.62e-04	0.0
343	61	-0.05	0.06	-0.04	2.13e-04	3.94e-05	0.0
343	62	-0.05	0.06	-0.07	2.93e-04	-1.30e-04	0.0
343	64	-0.05	0.06	-0.04	2.13e-04	3.94e-05	0.0
343	65	-0.05	0.06	-3.04e-03	1.14e-04	-3.20e-05	0.0
344	1	-0.02	0.07	-0.06	5.04e-05	-8.64e-05	0.0
344	3	-0.02	0.07	-0.05	5.32e-05	8.30e-05	0.0
344	17	-6.37e-03	0.08	4.53e-03	-1.67e-04	5.04e-05	0.0
344	18	-0.05	0.04	-0.02	-3.17e-05	-4.59e-05	0.0
344	23	-0.05	0.06	-0.01	-8.76e-05	-4.58e-05	0.0
344	41	-0.01	0.07	1.33e-03	-1.21e-04	3.78e-05	0.0
344	42	-0.03	0.04	-8.52e-03	-4.98e-05	-9.93e-06	0.0
344	46	-0.03	0.06	-8.32e-03	-7.93e-05	-7.80e-06	0.0
344	58	-0.02	0.05	-0.04	3.73e-05	-6.63e-05	0.0
344	60	-0.02	0.05	-0.02	1.20e-05	5.06e-05	0.0
344	62	-0.02	0.05	-0.03	1.04e-05	-4.35e-05	0.0
344	63	-0.02	0.05	-0.02	1.20e-05	5.06e-05	0.0
344	65	-0.02	0.05	-1.45e-03	-7.03e-05	2.46e-05	0.0
345	1	-0.07	0.05	-0.07	3.46e-04	-1.94e-04	0.0
345	5	-0.07	0.05	-0.09	3.82e-04	1.03e-04	0.0
345	14	-0.06	0.07	0.03	-4.62e-05	-7.65e-05	0.0
345	15	-0.06	0.07	0.04	-5.50e-05	-7.81e-05	0.0
345	19	-0.08	0.03	0.01	7.44e-05	-2.17e-04	0.0
345	38	-0.06	0.05	0.02	6.56e-06	-5.11e-05	0.0
345	39	-0.06	0.05	0.02	3.90e-06	-5.16e-05	0.0
345	42	-0.07	0.03	8.79e-03	7.69e-05	-1.22e-04	0.0
345	58	-0.05	0.03	-0.05	2.52e-04	-1.43e-04	0.0
345	61	-0.05	0.03	-0.05	2.27e-04	5.21e-05	0.0
345	62	-0.05	0.03	-0.03	2.07e-04	-1.13e-04	0.0
345	64	-0.05	0.03	-0.05	2.27e-04	5.21e-05	0.0
345	65	-0.05	0.03	5.85e-03	7.15e-05	-2.36e-05	0.0
346	1	-0.03	0.07	-0.06	5.56e-05	-8.38e-05	0.0
346	3	-0.03	0.07	-0.05	7.81e-05	1.06e-04	0.0
346	17	-0.01	0.08	0.01	-1.37e-04	7.47e-05	0.0
346	22	-0.05	0.06	-0.01	-7.25e-05	-5.41e-05	0.0
346	25	0.01	0.06	0.02	-9.28e-05	1.22e-04	0.0
346	41	-0.02	0.07	8.56e-03	-1.01e-04	5.18e-05	0.0
346	46	-0.04	0.06	-3.52e-03	-6.66e-05	-1.32e-05	0.0
346	48	-3.32e-03	0.06	0.01	-7.78e-05	7.61e-05	0.0
346	58	-0.02	0.05	-0.04	4.11e-05	-6.42e-05	0.0
346	60	-0.02	0.05	-0.03	2.81e-05	6.41e-05	0.0
346	62	-0.02	0.05	-0.03	1.57e-05	-4.13e-05	0.0
346	63	-0.02	0.05	-0.03	2.81e-05	6.41e-05	0.0
346	65	-0.02	0.05	2.79e-03	-6.05e-05	2.75e-05	0.0
347	1	-0.07	0.04	-0.05	2.75e-04	-1.66e-04	0.0
347	5	-0.07	0.04	-0.10	3.31e-04	1.62e-04	0.0
347	14	-0.06	0.06	0.04	-9.03e-05	-7.75e-05	0.0
347	18	-0.08	0.02	0.03	2.84e-05	-2.18e-04	0.0
347	23	-0.08	0.04	0.05	-4.95e-05	-2.24e-04	0.0
347	38	-0.06	0.05	0.02	-3.23e-05	-4.63e-05	0.0
347	42	-0.07	0.02	0.02	3.20e-05	-1.18e-04	0.0
347	46	-0.07	0.04	0.03	-5.70e-06	-1.20e-04	0.0
347	59	-0.05	0.03	-0.02	1.59e-04	-9.50e-05	0.0
347	61	-0.05	0.03	-0.05	1.90e-04	8.75e-05	0.0
347	62	-0.05	0.03	-0.02	1.59e-04	-9.50e-05	0.0
347	64	-0.05	0.03	-0.05	1.90e-04	8.75e-05	0.0
347	65	-0.05	0.03	7.40e-03	3.68e-05	-1.08e-05	0.0
348	1	-0.04	0.07	-0.06	3.45e-05	-1.29e-05	0.0
348	3	-0.04	0.07	-0.06	4.73e-05	2.00e-04	0.0
348	17	-0.02	0.08	0.02	-1.33e-04	1.15e-04	0.0
348	22	-0.06	0.06	-5.93e-03	-6.11e-05	-1.71e-05	0.0
348	25	4.09e-03	0.06	0.03	-9.78e-05	1.50e-04	0.0
348	41	-0.02	0.07	0.02	-9.76e-05	8.63e-05	0.0
348	46	-0.04	0.06	5.49e-04	-5.97e-05	1.91e-05	0.0
348	48	-9.42e-03	0.06	0.02	-7.96e-05	1.05e-04	0.0
348	58	-0.03	0.05	-0.04	2.59e-05	-1.27e-05	0.0
348	60	-0.03	0.05	-0.03	1.19e-05	1.23e-04	0.0
348	62	-0.03	0.05	-0.03	4.73e-06	4.48e-06	0.0
348	63	-0.03	0.05	-0.03	1.19e-05	1.23e-04	0.0
348	65	-0.03	0.05	6.66e-03	-5.87e-05	5.60e-05	0.0
349	1	-0.05	0.07	-0.06	-2.75e-06	-1.24e-05	0.0
349	2	-0.03	0.05	-0.07	1.41e-05	-2.88e-05	0.0
349	5	-0.05	0.07	-0.03	-2.44e-05	2.28e-04	0.0
349	17	-0.02	0.08	0.03	-9.31e-05	6.47e-05	0.0

349	18	-0.06	0.04	-0.01	-2.37e-06	-5.68e-05	0.0
349	41	-0.03	0.07	0.02	-6.66e-05	4.98e-05	0.0
349	42	-0.05	0.05	9.85e-06	-2.09e-05	-1.16e-05	0.0
349	58	-0.03	0.05	-0.05	0.0	-1.23e-05	0.0
349	61	-0.03	0.05	-0.01	-2.20e-05	1.33e-04	0.0
349	62	-0.03	0.05	-0.03	-9.99e-06	0.0	0.0
349	64	-0.03	0.05	-0.01	-2.20e-05	1.33e-04	0.0
349	65	-0.03	0.05	0.01	-4.01e-05	3.49e-05	0.0
350	1	-0.06	0.07	-0.08	3.23e-04	-1.72e-04	0.0
350	5	-0.06	0.07	-0.05	2.49e-04	8.56e-05	0.0
350	17	-0.04	0.08	0.04	4.16e-05	3.81e-05	0.0
350	19	-0.08	0.04	-0.02	1.86e-04	-1.72e-04	0.0
350	25	-0.02	0.06	0.04	2.18e-05	1.30e-04	0.0
350	41	-0.04	0.07	0.02	7.36e-05	9.95e-06	0.0
350	42	-0.06	0.05	-8.20e-03	1.48e-04	-9.76e-05	0.0
350	58	-0.05	0.05	-0.06	2.38e-04	-1.27e-04	0.0
350	61	-0.05	0.05	-0.02	1.64e-04	4.27e-05	0.0
350	62	-0.05	0.05	-0.04	2.05e-04	-1.01e-04	0.0
350	64	-0.05	0.05	-0.02	1.64e-04	4.27e-05	0.0
350	65	-0.05	0.05	7.04e-03	1.06e-04	-2.02e-05	0.0
351	1	-0.07	0.03	-0.04	1.62e-04	-1.47e-04	0.0
351	5	-0.07	0.03	-0.12	1.92e-04	2.24e-04	0.0
351	14	-0.06	0.06	0.05	-1.37e-04	-9.26e-05	0.0
351	18	-0.08	0.01	0.05	-2.13e-05	-2.36e-04	0.0
351	23	-0.08	0.03	0.07	-9.24e-05	-2.51e-04	0.0
351	38	-0.06	0.04	0.03	-8.17e-05	-5.30e-05	0.0
351	42	-0.07	0.02	0.03	-1.97e-05	-1.25e-04	0.0
351	46	-0.07	0.03	0.04	-5.50e-05	-1.31e-04	0.0
351	59	-0.05	0.02	-0.02	8.40e-05	-8.40e-05	0.0
351	61	-0.05	0.02	-0.06	1.01e-04	1.22e-04	0.0
351	62	-0.05	0.02	-0.02	8.40e-05	-8.40e-05	0.0
351	64	-0.05	0.02	-0.06	1.01e-04	1.22e-04	0.0
351	65	-0.05	0.02	8.20e-03	-1.76e-05	-6.60e-06	0.0
352	1	-0.02	0.05	-0.04	2.66e-05	-1.31e-04	0.0
352	5	-0.02	0.05	-0.06	-2.83e-05	1.59e-04	0.0
352	15	-0.03	0.07	-6.72e-03	-1.74e-04	4.67e-05	0.0
352	22	-0.05	0.05	-3.03e-03	-9.32e-05	-6.45e-05	0.0
352	24	0.01	0.05	-0.02	-1.40e-04	1.56e-04	0.0
352	39	-0.02	0.06	-6.86e-03	-1.34e-04	3.94e-05	0.0
352	46	-0.04	0.04	-4.29e-03	-9.10e-05	-1.86e-05	0.0
352	48	1.35e-03	0.04	-0.01	-1.15e-04	9.56e-05	0.0
352	58	-0.02	0.04	-0.03	2.02e-05	-9.49e-05	0.0
352	61	-0.02	0.04	-0.03	-3.74e-05	9.77e-05	0.0
352	62	-0.02	0.04	-0.02	-6.89e-06	-6.35e-05	0.0
352	64	-0.02	0.04	-0.03	-3.74e-05	9.77e-05	0.0
352	65	-0.02	0.04	-6.09e-03	-8.81e-05	3.06e-05	0.0

Nodo	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
	-0.16	-0.01	-0.21	-1.83e-03	-5.03e-04	-1.85e-04
	0.14	0.17	0.10	2.24e-03	5.27e-04	0.0

Nodo	Cmb	Azione X kN	Azione Y kN	Azione Z kN	Azione RX kN m	Azione RY kN m	Azione RZ kN m
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Nodo	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
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Nodo	Cmb	Azione X kN	Azione Y kN	Azione Z kN	Azione RX kN m	Azione RY kN m	Azione RZ kN m
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## 14 RISULTATI OPERE DI FONDAZIONE

### 14.1 LEGENDA RISULTATI OPERE DI FONDAZIONE

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

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

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

In particolare viene riportato:

<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 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:

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

<b>Nodo (G)</b>	<b>Pt 1/12</b>	<b>Pt 2/13</b>	<b>Pt 3...</b>	<b>Pt 4...</b>							
	N/mm2	N/mm2	N/mm2	N/mm2	N/mm2	N/mm2	N/mm2	N/mm2	N/mm2	N/mm2	N/mm2
1	-0.04	-0.04	-0.03	-0.03	-0.03	-0.02					
2	-0.05	-0.02	-9.37e-03	-0.04	-0.03	3.36e-03					

3	-0.02	-0.03	-0.02	-0.01	-0.01	-0.01
5	-0.03	-3.00e-03	-9.30e-04	-0.02	-0.01	1.13e-03
6	-0.02	-3.64e-03	-4.15e-05	-0.02	-0.01	3.66e-03
7	-0.03	-0.04	-0.03	-0.02	-0.02	-0.02
8	-0.03	-0.02	-0.01	-0.02	-0.02	-4.53e-03
9	-0.04	-0.03	-0.02	-0.03	-0.03	-4.33e-03
10	-0.05	-0.03	-0.01	-0.03	-0.03	5.63e-03
11	-0.04	-0.02	-8.17e-03	-0.03	-0.02	-1.85e-04
12	-0.07	-0.04	-0.02	-0.05	-0.04	-4.84e-03
27	-0.04	-0.03	-0.02	-0.02	-0.02	-4.55e-03
37	-0.05	-0.02	-8.28e-03	-0.02	-0.02	4.25e-03
47	-0.04	-0.01	-5.84e-03	-0.02	-0.02	3.09e-03
57	-0.04	-0.01	-5.97e-03	-0.02	-0.02	1.90e-03
61	-0.04	-0.01	-6.11e-03	-0.03	-0.02	1.06e-03
68	-0.05	-0.02	-0.01	-0.04	-0.03	-1.44e-03
72	-0.06	-0.02	-0.01	-0.04	-0.03	-2.21e-03
76	-0.05	-0.02	-0.01	-0.03	-0.03	-2.21e-03
83	-0.03	-0.02	-0.01	-0.02	-0.02	-6.39e-03
87	-0.03	-0.02	-0.02	-0.02	-0.02	-8.15e-03
91	-0.03	-0.03	-0.02	-0.02	-0.02	-9.95e-03
95	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01
99	-0.03	-0.04	-0.03	-0.02	-0.02	-0.01
106	-0.02	-6.21e-03	-4.49e-03	-0.01	-0.01	-2.91e-03
110	-0.02	-0.01	-8.22e-03	-0.01	-0.01	-5.07e-03
114	-0.02	-0.02	-0.01	-0.01	-0.01	-7.20e-03
118	-0.02	-0.02	-0.02	-0.01	-0.01	-9.32e-03
122	-0.02	-0.03	-0.02	-0.01	-0.01	-0.01
129	-0.05	-0.02	-0.02	-0.03	-0.03	-6.22e-03
133	-0.04	-0.03	-0.02	-0.03	-0.03	-8.74e-03
137	-0.04	-0.03	-0.02	-0.03	-0.03	-0.01
141	-0.04	-0.03	-0.02	-0.03	-0.03	-0.01
145	-0.04	-0.04	-0.03	-0.03	-0.03	-0.02
151	-0.05	-0.02	-0.01	-0.04	-0.03	1.72e-04
158	-0.02	-3.66e-03	-1.99e-03	-0.01	-0.01	-7.63e-04
162	-0.05	-0.02	-0.01	-0.03	-0.03	-4.53e-03
171	-0.06	-0.03	-0.02	-0.05	-0.04	-3.48e-03
176	-0.02	-4.07e-03	-2.55e-03	-0.01	-0.01	-1.46e-03
180	-0.03	-0.02	-0.01	-0.02	-0.02	-5.19e-03
221	-0.05	-0.03	-0.02	-0.03	-0.03	-2.22e-03
222	-0.05	-0.03	-0.01	-0.03	-0.03	-3.06e-04
223	-0.05	-0.03	-0.01	-0.03	-0.03	1.16e-03
224	-0.05	-0.03	-0.01	-0.03	-0.03	2.60e-03
225	-0.05	-0.03	-0.02	-0.03	-0.03	-3.53e-03
226	-0.05	-0.03	-0.01	-0.03	-0.03	4.04e-03
239	-0.02	-3.69e-03	1.85e-04	-0.01	-0.01	4.01e-03
270	-0.03	-9.62e-03	-4.32e-03	-0.01	-0.01	9.69e-04
271	-0.02	-2.96e-03	-1.20e-03	-0.01	-0.01	2.01e-04
272	-0.02	-2.94e-03	-1.30e-03	-0.01	-0.01	-1.67e-04
273	-0.02	-3.32e-03	6.74e-04	-0.01	-0.01	4.71e-03
274	-0.03	-5.68e-03	-1.18e-03	-0.02	-0.01	3.31e-03
275	-0.02	-1.11e-03	2.12e-03	-0.01	-8.30e-03	5.29e-03
276	-0.04	-0.01	-7.59e-03	-0.03	-0.02	-4.93e-04
277	-0.04	-0.01	-5.22e-03	-0.03	-0.02	5.62e-04
278	-0.03	-8.57e-03	-3.54e-03	-0.02	-0.02	1.57e-03
279	-0.02	-6.11e-03	-3.30e-03	-0.01	-0.01	-7.19e-04
280	-0.02	-1.28e-03	4.01e-04	-0.01	-0.01	1.96e-03
281	-0.02	-7.05e-03	-1.28e-03	-0.01	-0.01	4.57e-03
282	-0.02	-6.86e-04	1.96e-03	-9.72e-03	-8.84e-03	4.55e-03
283	-0.03	-0.01	-8.05e-03	-0.02	-0.02	-2.31e-03
284	-0.03	-5.08e-03	-3.41e-04	-0.02	-0.01	4.48e-03
285	-0.02	-3.12e-03	-3.65e-04	-0.01	-0.01	2.20e-03
286	-0.02	-5.59e-04	2.30e-03	-7.63e-03	-7.63e-03	5.04e-03
287	-0.02	-4.12e-03	1.07e-04	-0.01	-0.01	4.30e-03
288	-0.04	-0.02	-0.01	-0.02	-0.02	-1.27e-03
289	-0.03	-9.11e-03	-2.66e-03	-0.01	-0.01	3.93e-03
290	-0.02	-6.96e-03	-1.54e-03	-0.01	-0.01	3.91e-03
291	-0.03	-0.02	-8.32e-03	-0.02	-0.02	1.08e-03
292	-0.03	-9.93e-03	-6.59e-03	-0.01	-0.01	-3.45e-03
293	-0.02	-9.78e-04	2.31e-03	-7.99e-03	-7.99e-03	5.54e-03
294	-0.03	-0.02	-0.01	-0.02	-0.02	-7.33e-03
295	-0.03	-0.02	-0.02	-0.02	-0.02	-9.35e-03
296	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01
297	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01
298	-0.03	-0.04	-0.03	-0.02	-0.02	-0.02
299	-0.04	-0.02	-0.01	-0.02	-0.02	-3.38e-03

300	-0.03	-0.01	-9.52e-03	-0.02	-0.02	-4.26e-03
301	-0.03	-0.02	-0.01	-0.02	-0.02	-6.53e-03
302	-0.03	-0.02	-0.01	-0.02	-0.02	-8.83e-03
303	-0.03	-0.02	-0.02	-0.02	-0.02	-0.01
304	-0.03	-0.03	-0.02	-0.02	-0.02	-0.01
305	-0.03	-0.04	-0.03	-0.02	-0.02	-0.02
306	-0.02	-8.78e-03	-5.27e-03	-0.02	-0.01	-1.91e-03
307	-0.02	-0.01	-7.47e-03	-0.02	-0.01	-3.96e-03
308	-0.02	-0.02	-0.01	-0.01	-0.01	-6.05e-03
309	-0.02	-0.02	-0.01	-0.01	-0.01	-8.15e-03
310	-0.02	-0.03	-0.02	-0.01	-0.01	-0.01
311	-0.02	-0.03	-0.02	-0.01	-0.01	-0.01
312	-0.02	-7.39e-03	-4.56e-03	-0.01	-0.01	-1.85e-03
313	-0.02	-0.01	-7.07e-03	-0.01	-0.01	-3.90e-03
314	-0.02	-0.02	-0.01	-0.01	-0.01	-5.95e-03
315	-0.02	-0.02	-0.01	-0.01	-0.01	-8.03e-03
316	-0.02	-0.03	-0.02	-0.01	-0.01	-0.01
317	-0.01	-0.03	-0.02	-0.01	-0.01	-0.01
318	-0.02	-8.77e-03	-6.23e-03	-0.01	-0.01	-3.83e-03
319	-0.02	-0.01	-0.01	-0.01	-0.01	-6.10e-03
320	-0.02	-0.02	-0.01	-0.01	-0.01	-8.22e-03
321	-0.02	-0.03	-0.02	-0.01	-0.01	-0.01
322	-0.05	-0.03	-0.01	-0.04	-0.03	7.93e-04
323	-0.04	-0.02	-7.70e-03	-0.02	-0.02	2.14e-03
324	-0.02	-7.47e-03	-3.96e-03	-0.02	-0.01	-5.80e-04
325	-0.03	-0.01	-5.00e-03	-0.02	-0.02	2.22e-03
326	-0.04	-0.02	-7.87e-03	-0.02	-0.02	2.66e-03
327	-0.02	-0.03	-0.02	-0.01	-0.01	-0.01
328	-0.02	-0.04	-0.03	-0.02	-0.02	-0.01
329	-0.03	-0.01	-8.23e-03	-0.02	-0.02	-2.72e-03
330	-0.03	-0.01	-8.78e-03	-0.02	-0.02	-5.14e-03
331	-0.03	-0.01	-6.91e-03	-0.02	-0.02	-5.52e-04
332	-0.02	-6.80e-03	-2.77e-03	-0.02	-0.01	1.23e-03
333	-0.04	-0.01	-5.53e-03	-0.03	-0.02	1.69e-03
334	-0.03	-6.05e-03	-1.54e-03	-0.02	-0.01	3.00e-03
335	-0.03	-0.01	-4.16e-03	-0.02	-0.02	4.06e-03
336	-0.03	-5.83e-03	-6.40e-04	-0.02	-0.01	4.67e-03
337	-0.05	-0.02	-9.27e-03	-0.03	-0.02	3.52e-03
338	-0.04	-0.01	-4.97e-03	-0.03	-0.02	4.05e-03
339	-0.04	-0.02	-8.67e-03	-0.03	-0.02	1.54e-03
340	-0.03	-7.56e-03	-1.62e-03	-0.02	-0.01	4.44e-03
341	-0.06	-0.03	-0.02	-0.04	-0.03	-3.31e-03
342	-0.05	-0.03	-0.01	-0.04	-0.03	-2.16e-03
343	-0.05	-0.02	-0.01	-0.03	-0.03	-1.13e-03
344	-0.02	-5.87e-03	-3.15e-03	-0.01	-0.01	-5.35e-04
345	-0.03	-9.13e-03	-3.54e-03	-0.02	-0.02	2.17e-03
346	-0.02	-5.11e-03	-2.02e-03	-0.02	-0.01	1.03e-03
347	-0.04	-0.01	-4.94e-03	-0.02	-0.02	2.74e-03
348	-0.02	-4.58e-03	-1.06e-03	-0.02	-0.01	2.47e-03
349	-0.02	-4.15e-03	-2.43e-05	-0.02	-0.01	4.22e-03
350	-0.03	-8.63e-03	-3.03e-03	-0.02	-0.02	2.61e-03
351	-0.04	-0.02	-8.46e-03	-0.02	-0.02	3.03e-03
352	-0.02	-5.73e-03	-3.84e-03	-0.01	-0.01	-2.25e-03

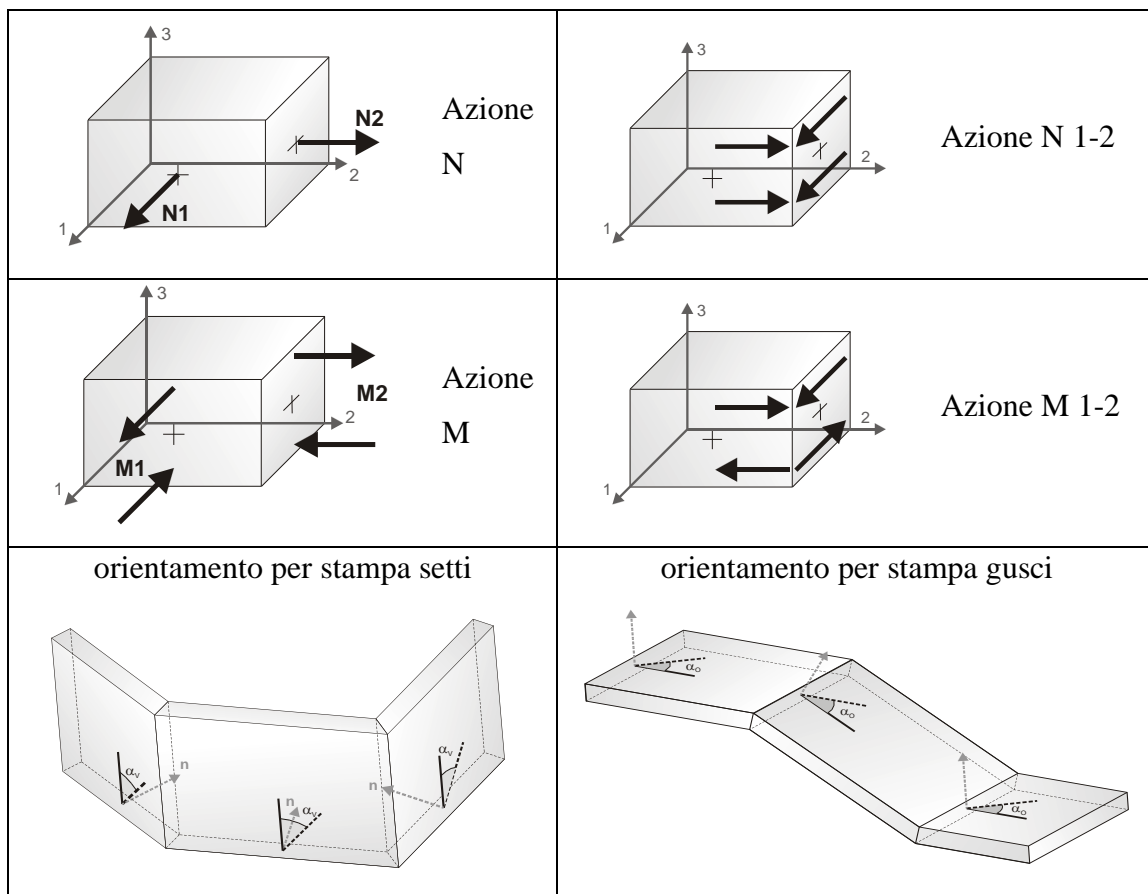
**Nodo (G)**    **Pt 1/12**    **Pt 2/13**    **Pt 3...**    **Pt 4...**  
-0.07  
5.63e-03

## 15 RISULTATI ELEMENTI TIPO SHELL

### 15.1 LEGENDA RISULTATI ELEMENTI TIPO SHELL

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

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



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

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

<b>M2</b>	<b>M1-2</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)
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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-Z (gradi)
1	Setto	0.0

M_S	Cmb	Z cm	N memb. kN	V memb. kN	V orto kN	M memb. kN m	M orto kN m	T kN m
1	3	-354.00	-623.58	-61.05	-9.22	8.96	7.93	-3.11
1	3	-262.33	-611.42	-61.05	-9.22	8.96	8.00	-0.78
1	3	-170.67	-607.38	-61.05	-9.22	48.48	-0.42	-1.19
1	3	-79.00	-603.25	-61.05	-9.22	87.99	-8.91	-0.21
1	5	-354.00	-513.65	-51.52	-10.23	7.77	2.58	-4.19
1	5	-262.33	-502.10	-51.52	-10.23	7.77	2.66	-0.93
1	5	-170.67	-497.93	-51.52	-10.23	41.12	-6.68	-2.34
1	5	-79.00	-492.32	-51.52	-10.23	74.46	-16.10	2.66
1	9	-354.00	-370.23	-37.93	-7.58	5.06	1.88	-3.07
1	9	-262.33	-361.80	-37.93	-7.58	5.06	1.94	-0.69
1	9	-170.67	-358.65	-37.93	-7.58	29.61	-4.98	-1.71
1	9	-79.00	-354.43	-37.93	-7.58	54.16	-11.95	1.93
1	10	-354.00	-233.96	15.21	-10.32	25.94	9.77	-1.22
1	10	-262.33	-226.03	15.21	-10.32	25.94	9.85	0.41
1	10	-170.67	-222.69	14.53	-10.12	16.31	0.52	0.58
1	10	-79.00	-216.27	12.92	-9.64	7.43	-8.58	-0.44
1	16	-354.00	-156.27	-91.18	-0.06	-54.14	-1.13	-2.73
1	16	-262.33	-150.76	-91.18	-0.06	-54.14	-1.13	-1.93
1	16	-170.67	-145.78	-90.50	-0.27	4.65	-1.28	-2.45
1	16	-79.00	-141.14	-88.89	-0.75	62.71	-1.75	-0.95
1	17	-354.00	-143.88	-91.03	-0.15	-55.07	-1.04	-2.66
1	17	-262.33	-138.54	-91.03	-0.15	-55.07	-1.04	-1.93
1	17	-170.67	-133.84	-90.35	-0.36	3.63	-1.27	-2.42
1	17	-79.00	-129.52	-88.74	-0.84	61.59	-1.82	-0.99
1	24	-354.00	-170.82	-61.94	14.57	-32.37	-15.45	-2.37
1	24	-262.33	-164.92	-61.94	14.57	-32.37	-15.56	-2.32
1	24	-170.67	-160.25	-61.74	13.89	7.66	-2.57	-3.26
1	24	-79.00	-155.01	-61.26	12.28	47.46	9.49	0.13
1	34	-354.00	-213.15	-10.23	-7.84	6.98	7.17	-1.55
1	34	-262.33	-206.09	-10.23	-7.84	6.98	7.23	-0.15
1	34	-170.67	-202.35	-10.54	-7.75	13.70	0.12	-0.13
1	34	-79.00	-196.34	-11.26	-7.53	20.75	-6.91	-0.56
1	40	-354.00	-168.44	-65.63	-2.61	-35.82	1.53	-2.34
1	40	-262.33	-162.18	-65.63	-2.61	-35.82	1.55	-1.37
1	40	-170.67	-157.81	-65.32	-2.70	6.55	-0.87	-1.71
1	40	-79.00	-152.97	-64.60	-2.92	48.60	-3.46	-0.85
1	41	-354.00	-164.68	-65.58	-2.64	-36.10	1.56	-2.32
1	41	-262.33	-158.48	-65.58	-2.64	-36.10	1.58	-1.37
1	41	-170.67	-154.19	-65.28	-2.73	6.25	-0.87	-1.71
1	41	-79.00	-149.45	-64.56	-2.94	48.26	-3.48	-0.86
1	60	-354.00	-385.97	-43.22	-6.43	0.81	5.47	-2.18
1	60	-262.33	-377.65	-43.22	-6.43	0.81	5.52	-0.62
1	60	-170.67	-374.36	-43.22	-6.43	28.79	-0.35	-0.88
1	60	-79.00	-370.67	-43.22	-6.43	56.76	-6.27	-0.32
1	61	-354.00	-324.90	-37.92	-6.99	0.15	2.50	-2.78
1	61	-262.33	-316.92	-37.92	-6.99	0.15	2.56	-0.71
1	61	-170.67	-313.55	-37.92	-6.99	24.70	-3.83	-1.52
1	61	-79.00	-309.04	-37.92	-6.99	49.24	-10.26	1.27
1	63	-354.00	-385.97	-43.22	-6.43	0.81	5.47	-2.18
1	63	-262.33	-377.65	-43.22	-6.43	0.81	5.52	-0.62
1	63	-170.67	-374.36	-43.22	-6.43	28.79	-0.35	-0.88
1	63	-79.00	-370.67	-43.22	-6.43	56.76	-6.27	-0.32
1	64	-354.00	-324.90	-37.92	-6.99	0.15	2.50	-2.78
1	64	-262.33	-316.92	-37.92	-6.99	0.15	2.56	-0.71
1	64	-170.67	-313.55	-37.92	-6.99	24.70	-3.83	-1.52
1	64	-79.00	-309.04	-37.92	-6.99	49.24	-10.26	1.27
1	65	-354.00	-188.92	-37.91	-5.24	-14.56	4.37	-1.94
1	65	-262.33	-182.29	-37.91	-5.24	-14.56	4.41	-0.76
1	65	-170.67	-178.27	-37.91	-5.24	9.97	-0.38	-0.92
1	65	-79.00	-172.90	-37.91	-5.24	34.51	-5.20	-0.71
<b>M_S</b>			<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
			-623.58	-91.18	-10.32	-55.07	-16.10	-4.19
			-129.52	15.21	14.57	87.99	9.85	2.66

Macro	Tipo	Angolo 1-Z (gradi)
3	Setto	0.0



M_S	Cmb	Z cm	N memb. kN	V memb. kN	V orto kN	M memb. kN m	M orto kN m	T kN m
3	1	-354.00	-106.71	-146.15	-51.37	47.48	10.08	-9.75
3	1	-262.33	-91.07	-146.15	-51.37	40.41	10.51	2.12
3	1	-170.67	-76.37	-87.60	10.54	-10.21	-8.25	-5.10
3	1	-79.00	-76.67	21.24	27.88	4.18	8.93	-0.49
3	5	-354.00	-188.16	-113.36	-75.22	86.29	18.83	-13.99
3	5	-262.33	-173.05	-113.36	-75.22	80.49	19.19	3.55
3	5	-170.67	-169.32	-66.47	4.83	44.70	-13.05	-9.52
3	5	-79.00	-191.66	8.16	82.26	79.73	26.40	8.78
3	7	-354.00	-76.84	-108.91	-37.19	33.98	7.18	-7.09
3	7	-262.33	-65.25	-108.91	-37.19	28.71	7.50	1.52
3	7	-170.67	-54.47	-65.05	7.83	-8.80	-5.99	-3.70
3	7	-79.00	-54.53	16.20	19.68	1.77	6.30	-0.51
3	16	-354.00	-75.39	-117.31	-23.91	22.27	2.23	-8.77
3	16	-262.33	-57.33	-117.31	-23.91	14.73	2.56	-4.08
3	16	-170.67	-53.96	-69.21	7.06	-9.94	-5.16	-9.56
3	16	-79.00	-46.72	4.65	21.92	7.63	7.79	-3.76
3	19	-354.00	-41.80	-153.87	-21.86	24.49	2.36	-4.66
3	19	-262.33	-33.40	-153.87	-21.86	19.53	2.69	2.61
3	19	-170.67	-22.18	-115.09	7.16	-27.14	-3.99	0.46
3	19	-79.00	-22.91	-6.90	5.96	-23.51	1.58	-1.93
3	20	-354.00	-91.57	-33.98	-40.03	24.26	8.87	-7.17
3	20	-262.33	-80.73	-33.98	-40.03	19.19	9.17	-0.66
3	20	-170.67	-69.01	33.58	6.36	-2.74	-6.49	-7.19
3	20	-79.00	-56.06	77.09	20.05	19.37	5.55	-0.10
3	23	-354.00	-41.71	-172.99	-17.09	23.17	0.27	-5.75
3	23	-262.33	-29.58	-172.99	-17.09	17.05	0.60	0.49
3	23	-170.67	-22.31	-138.34	7.33	-26.79	-3.75	-1.85
3	23	-79.00	-23.55	-26.55	8.96	-22.19	3.21	-3.34
3	40	-354.00	-70.61	-110.77	-26.02	22.65	3.27	-7.59
3	40	-262.33	-55.62	-110.77	-26.02	16.00	3.59	-2.13
3	40	-170.67	-49.34	-61.11	6.90	-12.61	-5.19	-7.16
3	40	-79.00	-43.05	14.67	18.40	3.08	6.10	-2.84
3	42	-354.00	-55.53	-130.12	-25.75	25.03	3.63	-5.64
3	42	-262.33	-45.56	-130.12	-25.75	19.77	3.95	1.34
3	42	-170.67	-34.68	-86.16	7.13	-20.46	-4.57	-1.96
3	42	-79.00	-31.82	7.17	10.36	-12.47	3.08	-1.78
3	44	-354.00	-79.11	-66.70	-34.32	23.81	6.77	-6.83
3	44	-262.33	-68.12	-66.70	-34.32	18.52	7.08	-0.41
3	44	-170.67	-57.70	-6.64	6.52	-8.64	-5.80	-5.90
3	44	-79.00	-48.32	53.36	17.28	9.39	4.93	-0.88
3	46	-354.00	-55.42	-140.22	-23.30	24.30	2.52	-6.18
3	46	-262.33	-43.43	-140.22	-23.30	18.41	2.85	0.26
3	46	-170.67	-34.54	-98.45	7.21	-20.39	-4.49	-3.18
3	46	-79.00	-32.05	-3.22	12.00	-11.85	3.92	-2.53
3	58	-354.00	-76.84	-108.91	-37.19	33.98	7.18	-7.09
3	58	-262.33	-65.25	-108.91	-37.19	28.71	7.50	1.52
3	58	-170.67	-54.47	-65.05	7.83	-8.80	-5.99	-3.70
3	58	-79.00	-54.53	16.20	19.68	1.77	6.30	-0.51
3	59	-354.00	-74.29	-107.56	-35.03	31.41	6.53	-6.93
3	59	-262.33	-62.73	-107.56	-35.03	26.06	6.85	1.12
3	59	-170.67	-52.27	-61.88	7.58	-10.29	-5.77	-3.90
3	59	-79.00	-50.85	18.46	18.39	0.97	5.82	-0.81
3	61	-354.00	-119.54	-89.34	-48.28	52.97	11.39	-9.28
3	61	-262.33	-108.27	-89.34	-48.28	48.33	11.67	1.91
3	61	-170.67	-103.90	-50.15	4.41	20.21	-8.44	-6.36
3	61	-79.00	-114.74	11.20	48.60	42.95	15.53	4.34
3	62	-354.00	-74.29	-107.56	-35.03	31.41	6.53	-6.93
3	62	-262.33	-62.73	-107.56	-35.03	26.06	6.85	1.12
3	62	-170.67	-52.27	-61.88	7.58	-10.29	-5.77	-3.90
3	62	-79.00	-50.85	18.46	18.39	0.97	5.82	-0.81
3	64	-354.00	-119.54	-89.34	-48.28	52.97	11.39	-9.28
3	64	-262.33	-108.27	-89.34	-48.28	48.33	11.67	1.91
3	64	-170.67	-103.90	-50.15	4.41	20.21	-8.44	-6.36
3	64	-79.00	-114.74	11.20	48.60	42.95	15.53	4.34
3	65	-354.00	-66.64	-103.49	-28.56	23.71	4.57	-6.46
3	65	-262.33	-55.16	-103.49	-28.56	18.12	4.88	-0.08
3	65	-170.67	-45.66	-52.38	6.84	-14.76	-5.12	-4.52
3	65	-79.00	-39.81	25.27	14.50	-1.41	4.38	-1.72

<b>M_S</b>	<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
	-191.66	-172.99	-75.22	-27.14	-13.05	-13.99
	-22.18	77.09	82.26	86.29	26.40	8.78

Macro	Tipo	Angolo 1-Z (gradi)
4	Setto	0.0

<b>M_S</b>	<b>Cmb</b>	<b>Z</b>	<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
		cm	kN	kN	kN	kN m	kN m	kN m
4	1	-354.00	-763.43	-131.99	524.08	602.63	-179.81	29.93
4	1	-262.33	-755.19	-132.22	525.56	586.90	-180.17	0.79
4	1	-170.67	-661.73	-80.62	25.37	549.86	72.13	-9.56
4	1	-79.00	-566.88	-32.26	-316.37	558.49	-61.52	-27.00
4	2	-354.00	-641.26	-82.63	385.55	532.81	-147.76	31.39
4	2	-262.33	-631.96	-82.79	386.54	521.58	-148.02	7.86
4	2	-170.67	-561.36	-46.44	14.52	513.68	35.68	-6.44
4	2	-79.00	-489.14	-12.03	-240.39	539.04	-68.06	-30.21
4	5	-354.00	-730.48	-198.86	546.02	124.33	-175.62	-1.82
4	5	-262.33	-721.96	-199.10	546.96	128.12	-176.30	-23.27
4	5	-170.67	-639.58	-165.16	28.91	-16.26	87.71	-11.16
4	5	-79.00	-559.20	-139.65	-334.81	-145.58	-52.26	7.81
4	9	-354.00	-531.93	-147.67	403.93	87.87	-127.67	-1.97
4	9	-262.33	-525.82	-147.85	404.65	90.33	-128.17	-17.56
4	9	-170.67	-464.65	-122.19	21.41	-16.46	67.16	-8.04
4	9	-79.00	-404.95	-102.76	-247.48	-111.70	-36.30	6.37
4	10	-354.00	-387.04	-222.15	325.95	266.98	-77.36	10.70
4	10	-262.33	-378.35	-222.39	326.97	258.86	-77.69	-2.87
4	10	-170.67	-297.04	-179.25	6.32	157.54	74.92	3.92
4	10	-79.00	-214.55	-134.80	-193.18	94.81	-10.83	9.59
4	15	-354.00	-256.67	-183.94	463.97	255.38	-94.27	-9.14
4	15	-262.33	-274.33	-184.24	465.96	229.53	-94.40	-31.50
4	15	-170.67	-214.73	-130.55	61.55	90.93	146.92	-15.81
4	15	-79.00	-157.85	-80.23	-229.67	-6.49	69.58	19.23
4	17	-354.00	-240.31	-62.78	461.53	99.41	-87.11	-23.87
4	17	-262.33	-256.64	-62.94	463.52	79.08	-87.33	-39.99
4	17	-170.67	-206.20	-14.92	55.60	15.15	150.23	-20.01
4	17	-79.00	-158.10	24.45	-236.90	-13.45	66.84	13.25
4	19	-354.00	-350.71	-350.64	375.63	442.95	-88.84	20.52
4	19	-262.33	-353.05	-351.06	377.02	421.84	-88.98	-3.15
4	19	-170.67	-270.38	-297.09	31.66	220.43	97.96	2.15
4	19	-79.00	-188.38	-237.38	-198.04	65.68	21.54	20.40
4	34	-354.00	-346.90	-182.35	340.22	227.10	-80.49	3.70
4	34	-262.33	-344.05	-182.56	341.37	216.15	-80.81	-10.58
4	34	-170.67	-270.59	-139.04	17.94	124.68	83.71	-2.30
4	34	-79.00	-196.86	-96.78	-186.34	69.97	6.41	9.14
4	41	-354.00	-280.46	-102.59	447.26	139.29	-83.99	-16.87
4	41	-262.33	-290.94	-102.77	449.11	121.80	-84.21	-32.28
4	41	-170.67	-232.66	-55.13	43.98	48.01	141.44	-13.79
4	41	-79.00	-175.79	-13.57	-243.73	11.39	49.61	13.70
4	42	-354.00	-337.34	-245.27	379.14	317.70	-87.17	8.15
4	42	-262.33	-340.39	-245.59	380.54	299.90	-87.38	-11.23
4	42	-170.67	-265.32	-196.63	31.14	157.73	101.01	-2.73
4	42	-79.00	-190.88	-146.97	-201.40	56.46	22.80	15.35
4	58	-354.00	-556.33	-98.14	387.68	442.17	-130.77	21.54
4	58	-262.33	-550.43	-98.31	388.80	430.16	-131.03	0.27
4	58	-170.67	-481.05	-59.57	18.79	402.89	55.61	-6.86
4	58	-79.00	-410.63	-23.22	-233.82	409.84	-43.16	-19.42
4	61	-354.00	-477.36	-146.37	401.38	111.70	-116.31	-3.13
4	61	-262.33	-473.74	-146.55	402.30	109.99	-116.75	-18.53
4	61	-170.67	-411.40	-115.92	23.80	9.24	78.51	-8.04
4	61	-79.00	-350.29	-90.87	-239.37	-73.61	-20.22	7.63
4	62	-354.00	-495.67	-109.22	389.19	377.43	-118.64	14.51
4	62	-262.33	-492.20	-109.40	390.41	364.87	-118.90	-5.16
4	62	-170.67	-423.70	-68.95	21.83	323.75	69.85	-7.15
4	62	-79.00	-354.56	-31.21	-229.12	317.55	-25.37	-11.71
4	64	-354.00	-477.36	-146.37	401.38	111.70	-116.31	-3.13
4	64	-262.33	-473.74	-146.55	402.30	109.99	-116.75	-18.53
4	64	-170.67	-411.40	-115.92	23.80	9.24	78.51	-8.04
4	64	-79.00	-350.29	-90.87	-239.37	-73.61	-20.22	7.63
4	65	-354.00	-313.68	-142.47	393.74	183.19	-82.24	-6.59

4	65	-262.33	-317.49	-142.66	395.24	168.97	-82.51	-21.43
4	65	-170.67	-251.62	-97.08	30.96	86.34	112.57	-8.04
4	65	-79.00	-186.33	-55.18	-215.04	40.68	28.01	11.42
<b>M_S</b>			<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
			-763.43	-351.06	-334.81	-145.58	-180.17	-39.99
			-157.85	24.45	546.96	602.63	150.23	31.39

Macro	Tipo	Angolo 1-Z (gradi)
5	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	kN	kN	kN	kN m	kN m	kN m
5	1	-354.00	-806.30	-154.60	401.40	497.40	-102.38	-32.34
5	1	-262.33	-816.92	-154.60	401.40	520.64	-102.18	-22.50
5	1	-170.67	-744.32	-166.99	-5.24	712.92	79.50	-8.43
5	1	-79.00	-666.69	-186.41	-294.12	892.93	-58.00	50.23
5	9	-354.00	-379.34	-51.94	304.57	92.63	-53.18	-9.49
5	9	-262.33	-368.95	-51.94	304.57	77.35	-53.25	-11.87
5	9	-170.67	-322.39	-58.82	3.73	150.98	88.16	-12.42
5	9	-79.00	-269.43	-65.71	-209.27	208.02	-6.16	13.20
5	16	-354.00	-349.70	-209.71	332.59	-304.20	-66.95	14.24
5	16	-262.33	-341.01	-209.71	332.59	-315.84	-67.15	-12.23
5	16	-170.67	-297.01	-205.50	21.37	-75.23	95.26	-27.22
5	16	-79.00	-245.19	-203.99	-203.63	146.56	11.44	6.36
5	17	-354.00	-335.76	-210.54	331.35	-310.10	-63.98	14.50
5	17	-262.33	-326.76	-210.54	331.35	-322.30	-64.19	-12.09
5	17	-170.67	-285.40	-206.13	20.15	-80.70	97.09	-27.14
5	17	-79.00	-236.24	-204.41	-204.84	142.21	12.17	6.20
5	21	-354.00	-289.30	-75.91	383.56	-98.22	-77.30	-4.74
5	21	-262.33	-284.42	-75.91	383.56	-108.28	-77.47	-12.63
5	21	-170.67	-239.60	-78.93	47.14	-13.26	119.98	-18.42
5	21	-79.00	-192.83	-87.65	-206.71	82.27	46.87	2.24
5	22	-354.00	-425.11	-71.28	207.98	15.18	-9.24	4.32
5	22	-262.33	-408.35	-71.28	207.98	-10.69	-9.33	-4.50
5	22	-170.67	-362.80	-77.92	-56.71	85.70	60.21	-8.61
5	22	-79.00	-306.81	-80.58	-228.11	151.39	-70.65	13.54
5	40	-354.00	-352.45	-144.54	319.27	-181.26	-54.90	7.40
5	40	-262.33	-342.16	-144.54	319.27	-197.10	-55.08	-10.47
5	40	-170.67	-298.16	-144.89	8.64	-25.18	95.37	-20.69
5	40	-79.00	-247.13	-147.45	-214.84	130.23	0.65	7.04
5	41	-354.00	-348.23	-144.79	318.89	-183.04	-54.01	7.48
5	41	-262.33	-337.84	-144.79	318.89	-199.06	-54.18	-10.43
5	41	-170.67	-294.65	-145.08	8.27	-26.84	95.93	-20.67
5	41	-79.00	-244.41	-147.58	-215.20	128.92	0.87	6.99
5	45	-354.00	-330.09	-59.65	277.98	-33.23	-53.44	-1.50
5	45	-262.33	-321.83	-59.65	277.98	-47.71	-53.54	-8.30
5	45	-170.67	-276.15	-64.27	7.90	30.90	77.56	-12.67
5	45	-79.00	-226.02	-70.88	-176.66	99.92	0.12	5.51
5	46	-354.00	-387.40	-70.47	234.81	-11.58	-26.09	2.65
5	46	-262.33	-373.67	-70.47	234.81	-33.45	-26.18	-5.95
5	46	-170.67	-328.51	-76.17	-31.92	60.28	66.96	-10.46
5	46	-79.00	-275.15	-80.34	-208.34	131.41	-43.39	10.41
5	58	-354.00	-587.42	-115.09	297.60	364.17	-74.34	-23.80
5	58	-262.33	-595.07	-115.09	297.60	380.95	-74.19	-16.54
5	58	-170.67	-541.41	-124.08	-3.60	524.08	60.64	-6.16
5	58	-79.00	-484.05	-138.26	-217.57	658.30	-40.94	36.98
5	61	-354.00	-373.80	-57.36	302.37	59.09	-50.70	-7.17
5	61	-262.33	-363.31	-57.36	302.37	43.14	-50.79	-11.04
5	61	-170.67	-317.09	-63.72	1.60	122.29	88.64	-12.69
5	61	-79.00	-264.53	-70.32	-211.30	185.22	-7.59	11.87
5	62	-354.00	-529.86	-104.72	297.14	262.75	-66.57	-17.90
5	62	-262.33	-532.90	-104.72	297.14	270.84	-66.49	-14.55
5	62	-170.67	-481.36	-112.66	-3.89	402.11	68.00	-8.00
5	62	-79.00	-425.49	-124.72	-217.53	522.93	-33.68	29.71
5	64	-354.00	-373.80	-57.36	302.37	59.09	-50.70	-7.17
5	64	-262.33	-363.31	-57.36	302.37	43.14	-50.79	-11.04
5	64	-170.67	-317.09	-63.72	1.60	122.29	88.64	-12.69
5	64	-79.00	-264.53	-70.32	-211.30	185.22	-7.59	11.87
5	65	-354.00	-357.20	-73.60	295.77	-41.52	-43.27	-0.21

5	65	-262.33	-346.39	-73.60	295.77	-59.48	-43.40	-8.57
5	65	-170.67	-301.20	-78.42	-4.78	36.22	90.09	-13.51
5	65	-79.00	-249.82	-84.12	-217.41	116.83	-11.89	7.89
<b>M_S</b>			<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
			-816.92	-210.54	-294.12	-322.30	-102.38	-32.34
			-192.83	-51.94	401.40	892.93	119.98	50.23

Macro	Tipo	Angolo 1-Z (gradi)
6	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	kN	kN	kN	kN m	kN m	kN m
6	3	-354.00	-547.34	-135.43	-21.27	84.14	36.07	-5.42
6	3	-262.33	-543.95	-135.43	-21.27	77.50	36.06	-8.77
6	3	-170.67	-503.69	-135.43	-21.27	206.24	16.60	-9.57
6	3	-79.00	-447.40	-135.43	-21.28	310.09	-2.94	2.90
6	5	-354.00	-502.82	-70.98	-0.84	66.51	10.50	-8.06
6	5	-262.33	-500.35	-70.98	-0.84	60.55	10.55	-11.81
6	5	-170.67	-457.49	-70.98	-0.84	130.25	9.76	-12.02
6	5	-79.00	-406.20	-70.98	-0.84	183.58	8.94	7.93
6	9	-354.00	-358.57	-52.25	-0.80	47.51	7.46	-5.93
6	9	-262.33	-356.73	-52.25	-0.80	43.03	7.50	-8.70
6	9	-170.67	-324.97	-52.25	-0.80	94.35	6.76	-8.86
6	9	-79.00	-287.02	-52.25	-0.80	133.70	5.99	5.83
6	13	-354.00	-250.41	49.36	16.44	109.16	-6.78	-4.02
6	13	-262.33	-251.27	49.36	16.44	106.20	-6.77	-5.33
6	13	-170.67	-216.06	46.27	15.51	66.04	7.84	-5.25
6	13	-79.00	-184.28	38.99	13.33	30.59	21.09	2.05
6	14	-354.00	-400.60	-152.50	-32.76	-125.03	41.84	-6.08
6	14	-262.33	-393.76	-152.50	-32.76	-131.09	41.82	-9.12
6	14	-170.67	-365.59	-149.41	-31.83	8.97	12.28	-8.90
6	14	-79.00	-325.12	-142.13	-29.65	127.93	-15.95	3.76
6	17	-354.00	-375.07	-169.15	26.99	-150.38	-14.61	-8.34
6	17	-262.33	-367.50	-169.15	26.99	-157.03	-14.60	-11.33
6	17	-170.67	-341.82	-166.05	26.06	-1.79	9.67	-11.18
6	17	-79.00	-302.16	-158.78	23.87	130.66	32.60	2.37
6	24	-354.00	-340.30	-110.59	93.82	-83.05	-77.54	-9.63
6	24	-262.33	-334.93	-110.59	93.82	-88.88	-77.51	-11.95
6	24	-170.67	-305.06	-109.66	90.73	14.34	6.91	-11.90
6	24	-79.00	-265.46	-107.48	83.45	102.31	86.89	0.74
6	37	-354.00	-286.92	0.75	4.81	52.62	4.55	-4.55
6	37	-262.33	-286.21	0.75	4.81	49.20	4.55	-6.38
6	37	-170.67	-252.36	-0.63	4.40	52.17	8.77	-6.30
6	37	-79.00	-218.15	-3.89	3.42	53.34	12.36	2.45
6	38	-354.00	-364.09	-103.89	-21.13	-68.49	30.51	-5.55
6	38	-262.33	-358.82	-103.89	-21.13	-74.09	30.50	-8.08
6	38	-170.67	-329.29	-102.51	-20.72	22.84	11.36	-7.84
6	38	-79.00	-291.25	-99.25	-19.74	105.19	-7.22	3.37
6	41	-354.00	-352.98	-112.70	10.00	-81.73	0.76	-6.76
6	41	-262.33	-347.37	-112.70	10.00	-87.62	0.77	-9.39
6	41	-170.67	-318.75	-111.31	9.58	17.33	9.73	-9.25
6	41	-79.00	-280.72	-108.05	8.61	106.78	18.08	2.62
6	48	-354.00	-328.61	-82.81	44.75	-48.31	-32.56	-7.46
6	48	-262.33	-324.34	-82.81	44.75	-53.62	-32.54	-9.91
6	48	-170.67	-293.81	-82.39	43.37	24.60	7.77	-9.90
6	48	-79.00	-256.03	-81.42	40.11	90.99	46.10	1.72
6	58	-354.00	-377.62	-31.53	-26.27	100.44	41.74	-1.57
6	58	-262.33	-376.80	-31.53	-26.27	96.50	41.69	-2.13
6	58	-170.67	-343.88	-31.53	-26.27	128.98	17.67	-2.77
6	58	-79.00	-306.95	-31.53	-26.27	151.87	-6.40	-2.04
6	60	-354.00	-375.03	-87.89	-13.99	43.44	24.19	-4.24
6	60	-262.33	-372.40	-87.89	-13.99	38.58	24.18	-6.65
6	60	-170.67	-342.10	-87.89	-13.99	122.36	11.38	-7.05
6	60	-79.00	-301.83	-87.89	-13.99	190.38	-1.47	2.31
6	61	-354.00	-350.30	-52.08	-2.64	33.65	9.98	-5.71
6	61	-262.33	-348.18	-52.08	-2.64	29.16	10.01	-8.33
6	61	-170.67	-316.44	-52.08	-2.64	80.14	7.58	-8.41
6	61	-79.00	-278.94	-52.08	-2.64	120.09	5.13	5.10
6	63	-354.00	-375.03	-87.89	-13.99	43.44	24.19	-4.24

6	63	-262.33	-372.40	-87.89	-13.99	38.58	24.18	-6.65
6	63	-170.67	-342.10	-87.89	-13.99	122.36	11.38	-7.05
6	63	-79.00	-301.83	-87.89	-13.99	190.38	-1.47	2.31
6	64	-354.00	-350.30	-52.08	-2.64	33.65	9.98	-5.71
6	64	-262.33	-348.18	-52.08	-2.64	29.16	10.01	-8.33
6	64	-170.67	-316.44	-52.08	-2.64	80.14	7.58	-8.41
6	64	-79.00	-278.94	-52.08	-2.64	120.09	5.13	5.10
6	65	-354.00	-325.50	-51.57	-8.16	-7.93	17.53	-5.05
6	65	-262.33	-322.51	-51.57	-8.16	-12.44	17.53	-7.23
6	65	-170.67	-290.82	-51.57	-8.16	37.51	10.06	-7.07
6	65	-79.00	-254.70	-51.57	-8.16	79.26	2.57	2.91
<b>M_S</b>			<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
			-547.34	-169.15	-32.76	-157.03	-77.54	-12.02
			-184.28	49.36	93.82	310.09	86.89	7.93

Macro	Tipo	Angolo 1-Z (gradi)
7	Setto	0.0

M_S	Cmb	Z cm	N memb. kN	V memb. kN	V orto kN	M memb. kN m	M orto kN m	T kN m
7	2	-354.00	-191.71	-1.72	-238.21	39.96	36.06	16.61
7	2	-262.33	-187.63	-1.72	-238.21	36.08	36.03	11.87
7	2	-170.67	-132.23	-18.03	-8.16	2.64	-76.97	-5.93
7	2	-79.00	-81.01	-46.51	109.73	-7.33	-30.21	-18.55
7	5	-354.00	-366.89	-70.11	-306.65	101.33	44.47	18.96
7	5	-262.33	-378.31	-70.11	-306.65	113.61	44.34	8.32
7	5	-170.67	-300.34	-89.82	1.35	126.84	-95.68	-13.44
7	5	-79.00	-196.38	-88.75	180.13	91.05	-12.18	-30.58
7	15	-354.00	-252.88	-75.85	-248.22	-16.62	44.62	8.26
7	15	-262.33	-241.29	-75.85	-248.22	-28.56	44.64	6.23
7	15	-170.67	-163.50	-102.34	-9.45	-45.19	-73.61	-8.53
7	15	-79.00	-90.99	-120.98	107.99	-30.60	-28.19	-19.03
7	16	-354.00	-261.54	-45.99	-211.56	-8.25	19.95	7.44
7	16	-262.33	-248.12	-45.99	-211.56	-23.78	19.92	3.06
7	16	-170.67	-187.23	-69.29	14.29	-29.06	-70.55	-12.60
7	16	-79.00	-124.03	-84.61	142.18	-21.99	1.33	-18.62
7	23	-354.00	-217.39	-67.23	-284.94	-12.34	69.00	12.08
7	23	-262.33	-212.21	-67.23	-284.94	-15.61	69.05	11.51
7	23	-170.67	-125.99	-95.61	-35.50	-55.22	-78.04	-3.29
7	23	-79.00	-56.86	-126.73	72.97	-35.26	-60.55	-18.99
7	40	-354.00	-236.23	-22.92	-215.67	-2.41	22.14	9.58
7	40	-262.33	-225.35	-22.92	-215.67	-15.08	22.11	4.96
7	40	-170.67	-170.00	-46.88	9.91	-29.44	-72.25	-11.33
7	40	-79.00	-116.40	-69.53	137.91	-21.15	-4.34	-18.39
7	42	-354.00	-201.18	-15.83	-250.72	0.83	45.69	13.47
7	42	-262.33	-196.84	-15.83	-250.72	-2.89	45.69	10.39
7	42	-170.67	-132.76	-41.44	-15.31	-39.52	-76.36	-5.98
7	42	-79.00	-81.97	-75.76	102.93	-26.08	-35.98	-18.27
7	46	-354.00	-216.58	-35.57	-254.06	-3.91	48.19	12.18
7	46	-262.33	-210.38	-35.57	-254.06	-9.62	48.20	9.64
7	46	-170.67	-140.46	-61.47	-16.25	-41.56	-75.83	-6.12
7	46	-79.00	-82.11	-92.07	100.53	-27.39	-36.96	-18.46
7	47	-354.00	-214.92	-17.77	-237.48	-0.97	36.26	11.29
7	47	-262.33	-207.94	-17.77	-237.48	-8.42	36.25	7.30
7	47	-170.67	-147.71	-43.21	-5.13	-37.13	-75.05	-9.08
7	47	-79.00	-96.68	-72.08	119.17	-25.58	-22.58	-18.66
7	58	-354.00	-196.22	-0.81	-233.42	30.51	33.07	15.42
7	58	-262.33	-191.30	-0.81	-233.42	25.46	33.04	10.64
7	58	-170.67	-137.24	-19.15	-4.69	-5.79	-76.16	-6.97
7	58	-79.00	-87.94	-47.96	115.68	-10.86	-25.10	-18.44
7	61	-354.00	-253.38	-38.13	-225.26	56.12	30.68	13.56
7	61	-262.33	-257.64	-38.13	-225.26	60.55	30.60	6.47
7	61	-170.67	-201.69	-55.47	1.99	61.19	-71.80	-9.95
7	61	-79.00	-133.31	-62.74	132.99	44.28	-9.72	-21.53
7	62	-354.00	-199.43	-0.15	-229.99	23.75	30.94	14.56
7	62	-262.33	-193.93	-0.15	-229.99	17.87	30.90	9.76
7	62	-170.67	-140.81	-19.96	-2.21	-11.81	-75.59	-7.71
7	62	-79.00	-92.89	-49.00	119.94	-13.39	-21.45	-18.37
7	64	-354.00	-253.38	-38.13	-225.26	56.12	30.68	13.56

7	64	-262.33	-257.64	-38.13	-225.26	60.55	30.60	6.47
7	64	-170.67	-201.69	-55.47	1.99	61.19	-71.80	-9.95
7	64	-79.00	-133.31	-62.74	132.99	44.28	-9.72	-21.53
7	65	-354.00	-209.09	1.81	-219.71	3.49	24.52	12.00
7	65	-262.33	-201.81	1.81	-219.71	-4.88	24.49	7.11
7	65	-170.67	-151.53	-22.37	5.22	-29.87	-73.87	-9.93
7	65	-79.00	-107.74	-52.10	132.70	-20.97	-10.50	-18.14
<b>M_S</b>			<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
			-378.31	-126.73	-306.65	-55.22	-95.68	-30.58
			-56.86	1.81	180.13	126.84	69.05	18.96

Macro	Tipo	Angolo 1-Z (gradi)
9	Setto	0.0

M_S	Cmb	Z	N memb.	V memb.	V orto	M memb.	M orto	T
		cm	kN	kN	kN	kN m	kN m	kN m
9	5	-354.00	-443.83	-38.70	-283.32	-5.20	74.93	-8.29
9	5	-262.33	-436.23	-38.70	-283.32	-6.27	74.82	-7.13
9	5	-170.67	-408.82	-40.10	29.88	5.23	-41.35	-8.19
9	5	-79.00	-387.23	-33.06	247.81	3.26	85.99	-7.27
9	7	-354.00	-189.26	-19.41	-198.87	-11.47	34.97	-3.54
9	7	-262.33	-198.53	-19.41	-198.87	-12.92	34.78	-2.94
9	7	-170.67	-184.33	-17.05	9.85	-17.19	-51.79	-4.31
9	7	-79.00	-167.14	-11.22	139.92	-14.88	16.91	-4.18
9	14	-354.00	-108.75	-158.36	-179.12	-63.60	14.28	-12.93
9	14	-262.33	-130.41	-158.36	-179.12	-60.16	14.12	-10.91
9	14	-170.67	-120.86	-145.34	13.61	-35.26	-61.73	-12.50
9	14	-79.00	-110.13	-115.56	130.90	-19.51	4.57	-12.37
9	16	-354.00	-168.33	-146.55	-183.44	-65.76	21.62	-17.01
9	16	-262.33	-178.09	-146.55	-183.44	-61.03	21.55	-15.16
9	16	-170.67	-148.59	-134.41	11.45	-31.07	-57.27	-17.07
9	16	-79.00	-115.37	-104.66	129.61	-11.94	7.43	-16.24
9	20	-354.00	-267.42	8.78	-198.17	-32.85	37.90	-10.95
9	20	-262.33	-257.99	8.78	-198.17	-29.41	37.85	-10.57
9	20	-170.67	-198.75	9.28	6.19	-20.23	-50.08	-12.49
9	20	-79.00	-131.03	11.95	130.31	-6.17	12.51	-10.95
9	23	-354.00	-45.97	-95.53	-177.35	-42.70	7.80	-2.21
9	23	-262.33	-79.44	-95.53	-177.35	-42.18	7.49	-0.71
9	23	-170.67	-91.28	-87.02	15.17	-37.89	-66.78	-1.74
9	23	-79.00	-103.80	-71.64	133.07	-30.76	1.26	-2.50
9	38	-354.00	-129.27	-106.83	-182.16	-52.56	17.84	-9.89
9	38	-262.33	-146.92	-106.83	-182.16	-49.04	17.69	-8.36
9	38	-170.67	-130.45	-95.69	12.29	-32.58	-60.15	-9.87
9	38	-79.00	-111.47	-74.01	130.30	-20.42	5.26	-9.59
9	44	-354.00	-213.34	-12.47	-193.41	-34.85	30.53	-8.90
9	44	-262.33	-214.26	-12.47	-193.41	-32.23	30.42	-8.27
9	44	-170.67	-172.49	-10.68	8.33	-24.32	-54.35	-10.00
9	44	-79.00	-124.45	-5.54	131.47	-11.55	9.77	-8.98
9	46	-354.00	-102.83	-74.39	-182.71	-40.48	15.79	-4.30
9	46	-262.33	-125.71	-74.39	-182.71	-39.18	15.55	-3.04
9	46	-170.67	-119.60	-67.23	12.88	-33.52	-62.23	-4.25
9	46	-79.00	-112.00	-54.36	132.06	-25.15	4.28	-4.48
9	48	-354.00	-205.27	-48.15	-190.58	-44.12	28.48	-11.52
9	48	-262.33	-207.81	-48.15	-190.58	-40.34	28.40	-10.57
9	48	-170.67	-167.44	-42.49	8.98	-25.83	-54.80	-12.37
9	48	-79.00	-121.23	-29.76	130.44	-11.57	9.15	-11.31
9	59	-354.00	-181.12	-25.40	-196.09	-18.04	31.94	-4.30
9	59	-262.33	-191.08	-25.40	-196.09	-18.64	31.76	-3.62
9	59	-170.67	-174.50	-22.50	10.06	-20.16	-53.45	-5.01
9	59	-79.00	-154.71	-15.88	137.86	-15.78	14.40	-4.82
9	61	-354.00	-282.28	-32.44	-203.73	-12.69	46.57	-6.22
9	61	-262.33	-281.44	-32.44	-203.73	-12.75	46.47	-5.34
9	61	-170.67	-260.22	-32.00	19.23	-4.85	-38.08	-6.31
9	61	-79.00	-241.11	-25.75	169.88	-3.21	48.64	-5.71
9	62	-354.00	-181.12	-25.40	-196.09	-18.04	31.94	-4.30
9	62	-262.33	-191.08	-25.40	-196.09	-18.64	31.76	-3.62
9	62	-170.67	-174.50	-22.50	10.06	-20.16	-53.45	-5.01
9	62	-79.00	-154.71	-15.88	137.86	-15.78	14.40	-4.82
9	64	-354.00	-282.28	-32.44	-203.73	-12.69	46.57	-6.22

9	64	-262.33	-281.44	-32.44	-203.73	-12.75	46.47	-5.34
9	64	-170.67	-260.22	-32.00	19.23	-4.85	-38.08	-6.31
9	64	-79.00	-241.11	-25.75	169.88	-3.21	48.64	-5.71
9	65	-354.00	-156.70	-43.37	-187.76	-37.77	22.85	-6.58
9	65	-262.33	-168.72	-43.37	-187.76	-35.80	22.67	-5.64
9	65	-170.67	-145.01	-38.87	10.68	-29.06	-58.43	-7.11
9	65	-79.00	-117.41	-29.84	131.69	-18.47	6.89	-6.72

<b>M_S</b>	<b>N memb.</b>	<b>V memb.</b>	<b>V orto</b>	<b>M memb.</b>	<b>M orto</b>	<b>T</b>
	-443.83	-158.36	-283.32	-65.76	-66.78	-17.07
	-45.97	11.95	247.81	5.23	85.99	-0.71

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

M_G	Cmb	Nodo	N max kN/ m	N min kN/ m	N 1 kN/ m	N 2 kN/ m	N 1-2 kN/ m	M max kN	M min kN	M 1 kN	M 2 kN	M 1-2 kN
2	1	4	-7.40	-77.09	-68.21	-16.28	23.24	12.76	-1.86	8.31	2.59	-6.73
2	1	17	-33.18	-57.40	-49.96	-40.62	11.17	35.85	21.01	35.48	21.37	2.29
2	1	18	-22.71	-61.08	-57.73	-26.06	10.83	28.58	12.29	28.31	12.56	2.05
2	1	19	-35.73	-65.22	-40.23	-60.72	10.60	18.81	-9.38	18.76	-9.32	1.29
2	1	20	-25.21	-57.77	-27.62	-55.36	8.52	6.12	-26.29	6.06	-26.23	-1.41
2	1	21	-34.18	-54.60	-42.82	-45.95	10.09	17.88	-14.73	10.21	-7.06	13.83
2	1	22	-7.16	-60.64	-8.53	-59.26	8.46	4.06	-12.21	0.35	-8.50	-6.83
2	1	23	-11.57	-57.16	-12.20	-56.53	5.30	4.39	-8.32	3.12	-7.06	-3.81
2	1	24	-16.69	-58.50	-16.72	-58.47	1.11	2.56	-3.81	2.50	-3.75	0.61
2	1	30	-5.40	-11.25	-9.07	-7.58	-2.83	3.63	1.23	3.21	1.64	0.90
2	1	31	-18.83	-37.39	-33.66	-22.56	7.44	8.17	-1.49	-1.14	7.83	1.79
2	1	34	-50.45	-79.61	-59.81	-70.25	13.62	10.63	-7.52	-7.04	10.15	2.91
2	1	40	6.07	-24.35	-3.72	-14.56	-14.21	2.17	0.43	1.18	1.42	0.87
2	1	41	-2.71	-51.05	-11.66	-42.10	-18.77	8.42	0.78	1.29	7.91	-1.91
2	1	44	-13.16	-72.52	-19.12	-66.56	-17.84	13.73	1.23	1.33	13.64	-1.10
2	1	45	-35.26	-58.99	-54.74	-39.52	9.10	2.82	-10.60	-10.42	2.64	-1.54
2	1	46	-38.62	-58.09	-53.58	-43.13	8.21	-1.40	-18.00	-16.06	-3.34	5.33
2	1	48	-35.66	-53.50	-35.67	-53.49	-0.42	4.81e-02	-15.59	-3.42	-12.13	6.50
2	1	49	-32.65	-61.88	-55.59	-38.93	12.00	2.92	-6.60	-2.08	-1.60	4.75
2	1	50	-37.81	-57.31	-43.68	-51.44	-8.94	-7.74	-9.16	-8.52	-8.37	0.70
2	1	51	-41.28	-63.33	-59.84	-44.77	8.05	-5.61	-18.28	-16.81	-7.07	4.06
2	1	52	-42.35	-69.46	-67.89	-43.92	6.34	1.17	-5.42	-0.91	-3.34	3.06
2	1	53	-29.57	-55.75	-52.82	-32.49	8.24	3.43	-6.18	-6.13	3.38	0.71
2	1	54	-43.29	-52.28	-48.68	-46.89	4.41	1.61e-02	-18.69	-8.89	-9.79	9.34
2	1	55	-16.77	-46.61	-30.54	-32.84	-14.88	6.17	0.65	5.70	1.12	-1.55
2	1	59	-10.89	-66.99	-12.15	-65.74	-8.30	11.82	1.47	1.51	11.77	-0.68
2	1	63	1.46	-59.81	1.42	-59.77	-1.61	9.44	1.56	1.90	9.11	-1.59
2	1	66	11.35	-56.34	11.18	-56.17	3.37	9.17	-0.34	1.99	6.84	-4.09
2	1	70	13.83	-60.16	13.12	-59.45	7.23	11.81	-1.95	1.67	8.20	-6.05
2	1	74	8.62	-64.74	7.63	-63.75	8.46	11.53	-2.06	0.63	8.85	-5.41
2	1	78	5.01	-76.02	-64.52	-6.49	28.28	9.73	-6.49	6.92	-3.68	-6.14
2	1	81	3.68	-55.75	2.89	-54.96	6.83	2.30	-0.89	-0.89	2.30	-4.06e-02
2	1	85	-10.09	-42.92	-39.45	-13.56	-10.10	4.62	-5.54	-2.07	1.16	4.82
2	1	89	0.40	-58.52	-55.69	-2.43	-12.61	4.86	-0.79	3.42	0.66	2.46
2	1	93	1.50	-63.74	-62.52	0.28	-8.84	6.66	0.90	6.50	1.07	0.97
2	1	97	1.00	-64.32	-63.81	0.49	-5.79	8.04	1.13	8.03	1.14	0.31
2	1	101	-8.10e-02	-64.10	-63.80	-0.38	-4.35	9.02	0.93	9.01	0.94	0.33
2	1	104	-1.76	-72.07	-71.85	-1.98	-3.95	9.97	0.69	9.95	0.70	0.41
2	1	108	-1.21	-58.80	-57.93	-2.08	7.02	16.40	5.35	16.34	5.42	0.85
2	1	112	0.89	-58.67	-58.41	0.64	3.88	13.03	2.62	13.00	2.65	0.56
2	1	116	0.49	-59.34	-59.31	0.47	1.25	11.24	1.79	11.24	1.80	0.17
2	1	120	-0.13	-59.66	-59.65	-0.13	-0.14	10.46	1.45	10.46	1.45	-8.65e-02
2	1	124	-0.40	-58.45	-58.45	-0.40	-0.51	10.00	0.92	9.99	0.93	-0.26
2	1	127	7.08e-02	-53.53	-53.53	6.63e-02	-0.49	9.77	0.49	9.74	0.51	-0.46
2	1	131	-5.06	-71.79	-65.29	-11.56	19.78	11.54	-0.94	9.00	1.60	-5.02
2	1	135	-0.21	-67.91	-63.48	-4.64	16.74	10.52	1.10	9.55	2.07	-2.86
2	1	139	3.05	-65.35	-62.90	0.60	12.70	9.99	1.61	9.79	1.82	-1.28
2	1	143	3.32	-63.26	-62.14	2.20	8.55	9.92	1.64	9.89	1.67	-0.49
2	1	147	1.29	-62.60	-62.25	0.94	4.71	9.86	1.14	9.85	1.16	-0.33
2	1	150	-0.14	-63.49	-63.37	-0.27	2.81	10.12	0.70	10.12	0.70	-0.14
2	1	152	7.98	-96.08	-74.12	-13.98	42.46	27.85	-3.54	10.54	13.77	-15.61
2	1	157	-22.16	-136.24	-52.62	-105.78	50.47	33.49	-3.50	-3.45	33.45	-1.24
2	1	161	-30.12	-63.44	-59.52	-34.05	10.74	19.30	5.64	19.20	5.73	1.13

2	1	165	-4.06	-85.96	-5.79	-84.23	11.78	-7.33	-54.32	-11.36	-50.29	13.17
2	1	166	-45.11	-66.96	-66.69	-45.39	-2.46	0.58	-4.04	0.58	-4.03	0.11
2	1	167	-14.13	-65.45	-60.91	-18.67	14.58	1.28	-18.77	-18.62	1.13	1.76
2	1	168	-14.15	-64.07	-19.33	-58.89	15.22	-13.39	-26.98	-13.65	-26.72	-1.86
2	1	169	-37.23	-62.99	-54.56	-45.66	-12.08	3.13	-4.92	1.42	-3.21	-3.30
2	1	173	2.37	-73.45	1.62	-72.70	7.51	7.77	-0.53	-0.21	7.44	-1.61
2	1	174	-9.28	-59.39	-57.48	-11.18	9.58	19.56	8.11	19.48	8.20	0.98
2	1	175	-8.79	-72.48	-65.17	-16.11	20.31	3.60	-8.33	-5.86	1.12	-4.84
2	1	179	-29.59	-52.51	-43.91	-38.19	11.10	6.41	-9.43	-7.27	4.25	5.44
2	1	183	-12.18	-75.37	-64.01	-23.53	24.26	4.99	-12.63	-10.11	2.47	-6.17
2	1	184	-19.31	-67.37	-61.38	-25.30	15.88	3.78	-22.07	-22.00	3.71	1.34
2	1	185	-18.57	-88.83	-67.67	-39.72	32.23	13.88	-16.86	-13.61	10.64	-9.44
2	1	186	-24.10	-65.92	-56.80	-33.21	17.27	4.39	-33.07	-32.87	4.19	2.72
2	1	187	-13.39	-87.74	-49.52	-51.61	37.16	5.84	-29.41	-28.57	5.00	5.37
2	1	188	-27.06	-67.01	-50.84	-43.23	19.61	-5.08	-42.96	-42.82	-5.22	2.28
2	1	189	-10.92	-146.83	-18.81	-138.93	31.79	6.11	-37.26	-18.13	-13.02	21.54
2	1	190	-10.39	-79.91	-24.53	-65.77	27.98	-4.83	-40.05	-25.85	-19.03	17.28
2	1	191	-7.60	-79.43	-10.84	-76.20	14.90	-12.04	-38.62	-14.92	-35.74	8.26
2	1	192	-24.96	-66.26	-39.25	-51.97	19.65	-18.59	-26.70	-26.70	-18.59	-4.45e-02
2	1	193	1.59	-63.66	0.84	-62.91	6.94	-4.83	-23.03	-5.55	-22.31	3.54
2	1	194	-0.51	-74.54	-1.56	-73.49	8.78	-6.16	-15.29	-6.29	-15.17	1.07
2	1	195	-2.72	-65.54	-4.43	-63.82	10.24	-1.30	-12.76	-4.63	-9.43	-5.20
2	1	196	-17.24	-58.09	-57.15	-18.18	6.12	6.53	-1.47e-02	2.27	4.25	3.12
2	1	197	-20.16	-62.65	-20.93	-61.88	-5.67	1.62	-1.42	-0.10	0.30	1.51
2	1	198	-19.70	-61.13	-58.89	-21.94	9.36	7.15	-3.37	-0.15	3.93	4.85
2	1	199	-20.20	-66.81	-26.08	-60.94	-15.47	4.19	-2.42	-1.97	3.74	-1.67
2	1	200	-29.42	-60.52	-57.00	-32.94	9.85	13.79	-7.39	-1.74	8.15	9.36
2	1	201	-33.22	-56.24	-48.98	-40.48	10.70	5.59	-1.76	-1.60	5.42	-1.08
2	1	202	-21.38	-58.86	-24.76	-55.49	10.73	-3.17e-02	-27.18	-1.75	-25.46	-6.61
2	1	203	-17.60	-56.17	-29.72	-44.05	-17.90	6.98	-2.40	1.68	2.90	-4.65
2	1	204	-17.06	-63.52	-58.65	-21.93	14.22	12.98	4.57	12.90	4.65	-0.80
2	1	205	-29.41	-54.94	-30.84	-53.51	5.88	6.65	-18.66	4.95	-16.96	6.33
2	1	206	-49.22	-71.42	-54.25	-66.39	9.29	6.42	-9.72	-9.69	6.38	0.75
2	1	207	-22.43	-46.52	-40.38	-28.57	10.50	5.77	-3.65	-1.59	3.70	3.90
2	1	208	-41.21	-65.51	-54.97	-51.76	12.04	-1.77	-15.02	-14.64	-2.15	2.21
2	1	209	-37.14	-65.32	-60.10	-42.35	10.95	19.58	-0.86	19.44	-0.73	1.66
2	1	210	-22.06	-65.14	-61.01	-26.18	12.67	12.81	3.30	12.09	4.01	-2.51
2	1	211	-28.69	-61.53	-59.92	-30.30	7.09	4.61	-6.83	-6.14	3.92	-2.72
2	1	212	-29.92	-63.14	-57.62	-35.44	12.37	17.57	5.45	14.21	8.80	-5.43
2	1	213	-45.38	-56.43	-56.43	-45.38	-0.20	-8.01	-16.19	-14.39	-9.81	3.39
2	1	214	-32.49	-59.82	-51.40	-40.91	12.62	17.29	2.81	12.47	7.63	6.82
2	1	215	-31.14	-55.68	-39.25	-47.57	11.54	3.02	-18.73	-2.38	-13.33	-9.40
2	1	216	-40.30	-61.73	-58.23	-43.80	7.92	9.18	0.21	8.62	0.77	2.18
2	1	217	-65.08	-76.30	-74.54	-66.85	4.09	13.31	0.57	13.16	0.71	1.36
2	1	218	-71.42	-76.83	-74.69	-73.55	-2.64	14.03	0.74	14.03	0.74	0.14
2	1	219	-51.12	-72.93	-62.72	-61.34	-10.88	11.79	0.59	11.69	0.69	-1.06
2	1	220	-18.74	-35.51	-35.00	-19.25	2.88	5.37	6.19e-02	4.13	1.30	2.24
2	1	240	-7.28	-68.54	-63.35	-12.48	17.06	5.21	-4.66	-3.01	3.56	-3.69
2	1	241	-5.50	-65.32	-61.83	-8.99	14.02	4.47	-1.29	-0.26	3.43	-2.21
2	1	242	-3.49	-63.28	-61.31	-5.46	10.67	2.77	0.45	0.99	2.24	-0.98
2	1	243	-1.83	-61.69	-60.75	-2.76	7.43	1.71	0.86	1.39	1.17	-0.41
2	1	244	-0.70	-60.73	-60.44	-0.99	4.16	1.51	0.42	1.47	0.47	-0.22
2	1	245	-0.15	-60.22	-60.12	-0.25	2.44	1.57	0.21	1.57	0.21	7.73e-02
2	1	246	-11.00	-62.32	-59.35	-13.97	11.98	2.49	-14.51	-14.38	2.36	1.49
2	1	247	-8.18	-60.17	-58.51	-9.83	9.12	3.02	-10.16	-10.08	2.94	1.03
2	1	248	-4.96	-59.08	-58.18	-5.87	6.95	1.55	-8.17	-8.16	1.53	0.42
2	1	249	-2.45	-58.43	-57.95	-2.93	5.17	0.13	-7.58	-7.58	0.13	6.80e-02
2	1	250	-0.95	-57.33	-57.17	-1.11	3.00	-0.28	-7.41	-7.41	-0.28	-7.62e-02
2	1	251	-0.23	-54.88	-54.83	-0.29	1.71	-0.20	-7.53	-7.53	-0.20	-0.15
2	1	252	-14.23	-58.25	-57.52	-14.95	5.61	6.23	-3.28	-0.73	3.68	4.21
2	1	253	-8.07	-57.77	-57.32	-8.53	4.74	4.30	-1.92	-0.61	2.99	2.54
2	1	254	-3.97	-57.33	-57.02	-4.28	4.06	1.99	-1.07	-0.67	1.59	1.03
2	1	255	-1.61	-56.87	-56.67	-1.81	3.26	0.69	-0.80	-0.75	0.64	0.25
2	1	256	-0.45	-55.32	-55.24	-0.53	2.07	0.16	-0.85	-0.85	0.15	-5.79e-02
2	1	257	0.15	-51.45	-51.41	0.12	1.32	0.18	-1.15	-0.97	7.11e-03	-0.45
2	1	258	-17.70	-57.88	-56.18	-19.39	8.08	10.83	3.37	10.16	4.03	-2.12
2	1	259	-12.01	-58.32	-58.27	-12.07	1.62	10.22	2.72	9.88	3.06	-1.56
2	1	260	-5.74	-61.92	-61.82	-5.85	-2.42	9.49	1.72	9.37	1.84	-0.99
2	1	261	-1.88	-63.28	-63.05	-2.11	-3.74	9.05	1.16	8.99	1.23	-0.71
2	1	262	-0.35	-63.10	-62.94	-0.51	-3.18	8.83	0.55	8.77	0.60	-0.65
2	1	263	0.26	-59.98	-59.88	0.17	-2.39	8.80	0.22	8.76	0.26	-0.58
2	1	264	-24.32	-46.47	-46.00	-24.79	-3.20	2.51	-1.17	-1.16	2.51	0.12
2	1	265	-12.95	-57.21	-55.97	-14.19	-7.30	3.14	2.07	2.93	2.28	-0.42
2	1	266	-4.95	-62.70	-61.92	-5.73	-6.66	5.00	1.50	4.91	1.59	-0.54
2	1	267	-2.09	-63.92	-63.47	-2.54	-5.24	5.84	0.93	5.79	0.98	-0.51



2	1	268	-0.85	-64.01	-63.76	-1.10	-3.97	6.41	0.45	6.39	0.48	-0.36
2	1	269	-0.58	-67.47	-67.31	-0.74	-3.24	7.09	0.28	7.08	0.29	-0.23
2	5	4	-3.68	-67.58	-66.42	-4.84	8.53	10.62	2.00	10.22	2.39	-1.80
2	5	17	-46.46	-50.52	-49.77	-47.21	1.58	36.30	20.98	36.12	21.17	-1.68
2	5	18	-27.04	-58.75	-58.61	-27.18	2.12	27.28	9.41	26.03	10.66	-4.55
2	5	19	-41.19	-68.42	-41.20	-68.42	-0.46	19.75	-9.36	19.40	-9.02	3.16
2	5	20	-31.17	-60.73	-32.14	-59.76	-5.26	7.79	-28.56	5.88	-26.64	8.12
2	5	21	-45.90	-56.62	-45.98	-56.55	0.88	9.36	-27.76	-0.69	-17.71	16.50
2	5	22	-11.59	-57.61	-14.12	-55.08	-10.48	4.07	-9.52	2.27	-7.72	4.61
2	5	23	-18.50	-62.22	-22.18	-58.54	-12.14	7.91	-12.54	2.65	-7.28	8.94
2	5	24	-26.41	-70.36	-31.08	-65.69	-13.54	9.21	-14.69	-1.15	-4.34	11.84
2	5	30	-3.05	-24.34	-13.97	-13.42	10.64	8.19	-3.21	2.77	2.21	5.69
2	5	31	-26.24	-61.94	-32.84	-55.34	13.86	26.49	-0.48	2.99	23.03	9.03
2	5	34	-64.67	-93.88	-64.68	-93.88	-0.38	36.68	-2.67	-1.51	35.52	6.64
2	5	40	-1.24	-47.36	-23.55	-25.06	-23.04	7.74	-4.58	1.60	1.56	-6.16
2	5	41	-20.39	-77.20	-38.72	-58.87	-26.56	20.32	-5.27	0.97	14.08	-10.99
2	5	44	-37.24	-97.28	-53.37	-81.15	-26.62	23.80	-0.99	-0.26	23.06	-4.21
2	5	45	-51.37	-56.53	-56.28	-51.62	-1.12	-1.06	-29.92	-26.47	-4.51	-9.36
2	5	46	-55.74	-57.56	-56.17	-57.12	-0.78	-18.31	-39.58	-39.34	-18.55	2.24
2	5	48	-40.57	-70.64	-44.55	-66.65	-10.20	-12.69	-34.91	-21.89	-25.72	10.94
2	5	49	-48.52	-71.60	-58.90	-61.23	11.48	9.81	-20.77	-4.76	-6.20	15.27
2	5	50	-41.44	-79.89	-53.63	-67.70	-17.89	-23.19	-30.89	-30.31	-23.77	-2.03
2	5	51	-62.75	-64.11	-62.99	-63.87	0.52	-23.85	-43.35	-42.21	-24.99	4.58
2	5	52	-61.00	-73.77	-73.53	-61.24	1.74	-3.23	-18.85	-8.33	-13.75	7.33
2	5	53	-30.00	-59.08	-58.77	-30.31	-2.98	15.63	-10.39	-10.39	15.63	0.12
2	5	54	-51.23	-62.97	-53.35	-60.85	-4.51	-18.54	-40.04	-31.88	-26.70	10.44
2	5	55	-20.49	-68.60	-47.69	-41.40	-23.85	17.66	-6.53	9.87	1.25	-11.30
2	5	59	-33.42	-86.75	-43.92	-76.25	-21.20	20.92	-0.49	0.53	19.90	4.55
2	5	63	-15.66	-72.69	-22.34	-66.01	-18.34	17.83	-1.61	1.86	14.35	7.45
2	5	66	0.13	-62.01	-4.47	-57.41	-16.26	10.90	-2.53	1.72	6.65	6.25
2	5	70	6.70	-58.26	3.72	-55.28	-13.58	6.17	-1.79	1.15	3.22	3.84
2	5	74	5.68	-57.60	3.96	-55.88	-10.29	4.23	-1.56	0.56	2.12	2.79
2	5	78	1.87	-65.41	-63.15	-0.39	12.12	10.72	-1.17	10.29	-0.74	-2.22
2	5	81	1.01	-52.42	0.34	-51.75	-5.94	1.66	-4.46	-0.36	-2.44	2.88
2	5	85	16.70	-47.25	-42.15	11.60	-17.34	11.74	-4.04	0.16	7.54	6.97
2	5	89	15.41	-57.61	-54.11	11.91	-15.60	7.34	0.36	5.69	2.01	2.96
2	5	93	6.62	-64.46	-62.96	5.12	-10.20	9.37	1.55	9.25	1.67	0.94
2	5	97	2.03	-66.69	-66.13	1.46	-6.22	11.46	1.63	11.46	1.64	0.16
2	5	101	-9.10e-02	-69.02	-68.77	-0.34	-4.16	13.13	1.38	13.13	1.39	0.15
2	5	104	-1.87	-77.89	-77.74	-2.03	-3.44	14.61	1.04	14.61	1.04	0.16
2	5	108	-2.18	-58.70	-58.70	-2.18	0.12	14.53	4.18	12.91	5.80	-3.76
2	5	112	0.76	-59.46	-59.35	0.65	-2.56	11.05	1.90	10.47	2.48	-2.22
2	5	116	0.95	-61.82	-61.52	0.65	-4.33	10.03	1.37	9.82	1.58	-1.34
2	5	120	0.59	-64.25	-63.91	0.25	-4.71	9.79	1.21	9.67	1.33	-1.01
2	5	124	4.53e-02	-65.83	-65.67	-0.11	-3.19	9.59	0.83	9.50	0.92	-0.92
2	5	127	-0.24	-66.62	-66.57	-0.29	-1.84	9.43	0.45	9.33	0.55	-0.91
2	5	131	-4.68	-66.78	-66.28	-5.17	5.52	10.08	1.26	9.98	1.35	-0.91
2	5	135	-4.01	-65.81	-65.66	-4.16	3.09	9.24	1.37	9.23	1.38	-0.28
2	5	139	-2.04	-64.74	-64.72	-2.05	1.08	8.37	1.19	8.37	1.19	-2.17e-04
2	5	143	-0.73	-63.56	-63.56	-0.73	-7.28e-02	7.43	1.04	7.43	1.04	9.88e-03
2	5	147	-0.74	-62.18	-62.18	-0.74	-0.10	6.41	0.64	6.40	0.65	-0.21
2	5	150	-1.02	-61.23	-61.23	-1.02	0.17	5.95	0.32	5.94	0.32	-0.17
2	5	152	-1.93	-76.43	-69.59	-8.77	21.51	20.93	1.52	13.70	8.76	-9.39
2	5	157	-23.92	-82.31	-50.45	-55.77	29.07	25.88	5.38	7.84	23.42	-6.66
2	5	161	-35.99	-61.48	-60.66	-36.81	4.50	20.41	5.23	16.46	9.18	-6.66
2	5	165	-4.08	-43.04	-4.12	-43.00	1.25	-4.08e-02	-18.22	-3.19	-15.07	6.88
2	5	166	-55.42	-79.24	-74.02	-60.64	-9.85	-7.01	-15.29	-7.57	-14.73	-2.08
2	5	167	-14.42	-61.80	-61.61	-14.61	2.99	2.30	-6.48	-6.25	2.08	-1.40
2	5	168	-19.14	-49.24	-19.21	-49.17	-1.41	-1.23	-13.02	-1.29	-12.95	0.87
2	5	169	-42.05	-83.82	-65.25	-60.62	-20.75	3.40	-20.22	-5.14	-11.68	-11.35
2	5	173	2.66	-52.71	1.70	-51.75	-7.22	3.03	-2.56	7.33e-02	0.40	2.79
2	5	174	-11.66	-58.68	-58.44	-11.90	3.35	19.55	7.22	16.57	10.21	-5.28
2	5	175	-9.71	-65.49	-64.67	-10.53	6.73	3.86	0.22	2.08	2.00	-1.82
2	5	179	-14.50	-51.43	-50.99	-14.93	-3.99	24.14	-6.20	-3.05	20.98	9.26
2	5	183	-12.88	-64.73	-62.91	-14.70	9.54	6.82	-0.42	1.80	4.60	-3.34
2	5	184	-19.19	-61.72	-61.37	-19.54	3.85	6.74	-4.99	-4.78	6.53	-1.54
2	5	185	-18.39	-69.73	-64.54	-23.59	15.49	14.64	-2.40	1.41	10.83	-7.10
2	5	186	-25.19	-57.14	-56.09	-26.24	5.69	9.36	-9.00	-8.97	9.33	-0.82
2	5	187	-18.22	-61.71	-47.52	-32.41	20.39	10.06	-6.39	-6.29	9.96	-1.29
2	5	188	-31.07	-50.71	-46.78	-35.00	7.86	4.43	-17.39	-17.23	4.27	-1.90
2	5	189	-6.29	-71.88	-11.16	-67.01	17.20	7.23	-8.52	-5.92	4.62	5.85
2	5	190	-14.04	-49.85	-20.00	-43.89	13.34	1.50	-12.05	-8.46	-2.09	5.99
2	5	191	-10.16	-52.67	-10.19	-52.64	1.14	-1.71	-14.44	-3.85	-12.30	4.76
2	5	192	-31.93	-45.70	-34.69	-42.95	5.51	-3.42	-8.79	-7.31	-4.91	-2.40
2	5	193	-1.00	-47.11	-1.42	-46.69	-4.38	0.60	-11.32	-1.54	-9.18	4.58

2	5	194	-3.43	-52.89	-4.02	-52.30	-5.40	0.89	-9.26	-1.24	-7.13	4.12
2	5	195	-7.30	-56.05	-8.60	-54.74	-7.87	1.43	-7.95	0.14	-6.65	3.24
2	5	196	-16.24	-58.29	-57.93	-16.60	-3.87	8.81	3.00	6.46	5.36	-2.85
2	5	197	-30.83	-79.98	-37.97	-72.85	-17.32	3.76	-14.02	-9.16	-1.10	7.92
2	5	198	-19.00	-59.41	-59.39	-19.02	-0.96	9.31	4.70	8.18	5.83	-1.98
2	5	199	-30.62	-88.85	-43.93	-75.55	-24.45	3.67	-14.79	-13.15	2.03	-5.25
2	5	200	-30.34	-55.71	-55.67	-30.39	-1.03	13.71	6.78	9.30	11.20	3.33
2	5	201	-37.45	-45.46	-45.36	-37.55	-0.90	13.83	6.44	9.18	11.09	-3.57
2	5	202	-25.28	-52.79	-26.20	-51.86	-4.97	5.10	-16.90	5.09	-16.89	0.52
2	5	203	-26.61	-80.56	-47.51	-59.66	-26.28	16.57	-15.17	-1.24	2.64	-15.75
2	5	204	-20.99	-63.05	-60.34	-23.71	10.33	14.06	-1.41	3.84	8.82	-7.32
2	5	205	-36.96	-64.53	-38.10	-63.39	-5.50	3.74	-32.84	-3.52	-25.58	14.59
2	5	206	-55.30	-101.41	-55.30	-101.41	-0.24	17.38	-11.90	-11.74	17.22	2.15
2	5	207	-33.26	-66.31	-41.97	-57.59	14.56	22.26	-9.95	0.96	11.35	15.25
2	5	208	-55.13	-77.49	-56.13	-76.49	4.62	-12.11	-30.70	-30.06	-12.74	3.39
2	5	209	-43.05	-62.33	-61.73	-43.66	3.36	19.04	-2.15	16.68	0.21	-6.67
2	5	210	-29.23	-66.33	-65.18	-30.38	6.44	14.42	-8.11	1.25	5.06	-11.10
2	5	211	-33.35	-63.99	-63.46	-33.88	-3.99	12.41	-21.02	-16.31	7.69	-11.64
2	5	212	-41.50	-61.48	-60.37	-42.61	4.57	19.58	-10.12	4.84	4.63	-14.85
2	5	213	-53.70	-70.73	-62.04	-62.39	-8.51	-28.25	-41.38	-40.94	-28.70	2.37
2	5	214	-47.46	-57.14	-54.07	-50.53	4.51	3.97	-2.37	2.60	-1.01	2.60
2	5	215	-37.04	-44.78	-37.38	-44.43	-1.60	12.73	-7.79	8.87	-3.94	-8.01
2	5	216	-45.78	-69.62	-62.83	-52.57	10.76	21.85	-5.92	15.03	0.90	11.95
2	5	217	-75.22	-81.57	-81.39	-75.40	1.04	22.67	-1.10	21.23	0.33	5.66
2	5	218	-72.16	-91.37	-82.56	-80.98	-9.57	22.14	0.23	21.99	0.37	-1.79
2	5	219	-50.68	-90.12	-73.02	-67.78	-19.55	21.89	-2.88	18.60	0.41	-8.40
2	5	220	-18.57	-46.74	-38.78	-26.54	12.69	15.59	-7.25	6.38	1.96	11.20
2	5	240	-7.75	-64.89	-64.59	-8.05	4.13	3.04	0.57	1.94	1.67	-1.23
2	5	241	-5.95	-64.34	-64.29	-6.00	1.70	2.19	0.43	1.60	1.01	-0.83
2	5	242	-4.07	-64.03	-64.03	-4.07	-0.18	1.43	3.82e-02	1.02	0.45	-0.64
2	5	243	-2.34	-63.59	-63.58	-2.35	-0.97	0.86	-0.56	0.29	1.25e-02	-0.70
2	5	244	-0.94	-62.78	-62.78	-0.95	-0.70	0.47	-1.02	-0.41	-0.15	-0.74
2	5	245	-0.22	-61.50	-61.50	-0.22	-0.32	0.13	-1.09	-0.81	-0.15	-0.51
2	5	246	-11.09	-60.93	-60.91	-11.10	0.93	1.19	-5.98	-5.78	0.99	-1.18
2	5	247	-7.84	-61.96	-61.93	-7.88	-1.42	0.59	-5.68	-5.55	0.46	-0.90
2	5	248	-4.55	-62.98	-62.86	-4.67	-2.69	-0.26	-6.16	-5.96	-0.46	-1.07
2	5	249	-2.23	-63.74	-63.61	-2.35	-2.77	-0.69	-6.65	-6.41	-0.93	-1.17
2	5	250	-0.86	-64.10	-64.05	-0.92	-1.83	-0.49	-6.83	-6.64	-0.69	-1.08
2	5	251	-0.27	-62.99	-62.97	-0.29	-1.11	-0.18	-7.07	-6.88	-0.37	-1.14
2	5	252	-13.11	-59.88	-59.39	-13.60	-4.78	4.08	2.15	3.44	2.79	-0.91
2	5	253	-7.00	-61.94	-61.46	-7.49	-5.14	3.09	0.61	2.42	1.27	-1.10
2	5	254	-3.40	-63.19	-62.79	-3.80	-4.87	2.67	-0.44	1.94	0.29	-1.32
2	5	255	-1.56	-64.47	-64.17	-1.85	-4.27	2.65	-0.50	1.97	0.18	-1.29
2	5	256	-0.52	-65.99	-65.88	-0.64	-2.73	2.66	-0.38	2.16	0.12	-1.13
2	5	257	-4.13e-02	-65.83	-65.79	-7.99e-02	-1.59	2.92	-0.58	2.30	3.61e-02	-1.34
2	5	258	-20.00	-56.01	-55.53	-20.48	4.15	12.91	-0.28	3.92	8.71	-6.15
2	5	259	-12.50	-56.07	-55.98	-12.59	-2.01	8.80	2.82	6.20	5.43	-2.97
2	5	260	-5.21	-61.03	-60.56	-5.69	-5.13	6.98	1.55	6.32	2.22	-1.78
2	5	261	-1.45	-64.38	-63.93	-1.91	-5.32	6.44	0.62	6.05	1.01	-1.46
2	5	262	-0.35	-66.12	-65.93	-0.54	-3.53	6.14	0.12	5.81	0.46	-1.39
2	5	263	-0.32	-68.05	-67.98	-0.38	-2.10	6.01	-9.08e-02	5.70	0.22	-1.35
2	5	264	-23.40	-51.76	-48.56	-26.60	-8.98	10.63	-2.76	-2.61	10.49	1.37
2	5	265	-9.89	-57.48	-54.88	-12.49	-10.82	5.55	3.53	3.58	5.49	-0.33
2	5	266	-2.53	-63.18	-61.87	-3.84	-8.80	6.15	1.97	5.88	2.24	-1.03
2	5	267	-0.83	-65.85	-65.26	-1.42	-6.17	7.29	1.08	7.08	1.29	-1.13
2	5	268	-0.44	-68.36	-68.13	-0.67	-3.97	8.20	0.59	8.08	0.71	-0.96
2	5	269	-0.56	-74.11	-74.00	-0.67	-2.86	9.19	0.36	9.09	0.46	-0.93
2	14	4	-2.13	-60.78	-46.60	-16.31	25.11	11.10	2.23	11.02	2.31	-0.86
2	14	17	-29.70	-62.10	-32.78	-59.02	9.51	14.95	10.97	11.51	14.40	1.37
2	14	18	-25.06	-38.24	-31.96	-31.35	6.58	3.63	-1.26	3.58	-1.20	0.52
2	14	19	-30.03	-76.78	-31.92	-74.89	9.21	8.62	2.63	6.08	5.18	2.96
2	14	20	-30.46	-62.52	-31.34	-61.64	5.23	2.06	-9.42	0.26	-7.62	4.18
2	14	21	-30.83	-56.14	-34.66	-52.31	9.07	9.82	-7.15	1.18	1.49	8.48
2	14	22	-25.28	-52.75	-25.28	-52.75	-0.19	0.62	-6.86	-1.11	-5.13	3.15
2	14	23	-33.44	-56.71	-33.54	-56.62	-1.47	1.86	-5.38	-0.35	-3.17	3.34
2	14	24	-38.90	-59.77	-39.54	-59.13	-3.61	3.61	-4.35	-0.26	-0.48	3.98
2	14	30	14.59	-8.69	11.03	-5.13	-8.38	2.37	1.30	2.04	1.63	-0.49
2	14	31	11.82	-8.50	11.32	-8.00	3.14	5.20	-0.41	-0.41	5.19	0.12
2	14	34	6.12	-50.74	5.67	-50.29	-5.05	7.20	-5.96	-5.52	6.75	2.38
2	14	40	6.64	-23.06	-9.09	-7.33	-14.82	4.31	-2.45	0.92	0.93	3.38
2	14	41	-12.65	-50.19	-27.50	-35.35	-18.36	5.38	-2.00e-02	0.81	4.55	1.94
2	14	44	-40.06	-75.45	-53.63	-61.88	-17.21	9.11	0.12	0.56	8.67	1.95
2	14	45	-23.11	-42.86	-25.96	-40.01	6.94	2.17	-4.63	-4.63	2.17	8.22e-02
2	14	46	-36.21	-45.87	-38.38	-43.70	4.03	0.15	-10.82	-10.33	-0.34	2.27
2	14	48	-37.23	-57.29	-39.08	-55.44	-5.80	2.59	-8.76	-3.29	-2.89	5.67

2	14	49	-24.10	-36.66	-33.70	-27.06	-5.33	2.44	-2.16	4.37e-02	0.23	2.30
2	14	50	-27.78	-64.30	-43.08	-49.00	-18.02	-0.85	-5.76	-4.44	-2.17	2.18
2	14	51	-36.16	-45.99	-44.32	-37.83	-3.69	-1.03	-8.99	-8.07	-1.95	2.55
2	14	52	-27.45	-59.01	-51.30	-35.16	-13.56	2.67	-1.88	1.28	-0.49	2.10
2	14	53	-1.39	-37.31	-6.45	-32.24	-12.50	2.96	-7.01	-6.44	2.39	2.32
2	14	54	-41.27	-48.83	-41.39	-48.71	-0.96	1.54	-10.35	-6.86	-1.96	5.42
2	14	55	-2.20	-44.81	-24.68	-22.34	-21.27	4.76	-0.43	3.48	0.84	2.24
2	14	59	-52.15	-72.46	-60.67	-63.95	-10.02	7.64	-0.15	0.32	7.17	1.85
2	14	63	-48.41	-63.80	-52.54	-59.68	-6.82	5.23	-0.35	0.26	4.61	1.74
2	14	66	-36.55	-56.85	-38.30	-55.09	-5.70	1.92	-1.32	-4.74e-02	0.65	1.58
2	14	70	-24.58	-52.35	-25.52	-51.41	-5.02	0.53	-3.39	-0.38	-2.48	1.66
2	14	74	-14.97	-51.07	-15.41	-50.63	-3.97	0.19	-5.62	-0.82	-4.61	2.20
2	14	78	-1.04	-63.67	-45.17	-19.53	28.57	12.28	-1.31	12.19	-1.22	-1.10
2	14	81	-2.34	-41.99	-3.31	-41.01	-6.15	-2.40e-02	-14.45	-1.16	-13.32	3.88
2	14	85	11.97	-47.70	-20.21	-15.52	-29.74	2.61	-5.92	-3.52	0.21	3.84
2	14	89	8.63	-52.45	-38.68	-5.14	-25.52	2.40	-1.19	0.82	0.39	1.78
2	14	93	8.44	-49.82	-43.17	1.79	-18.53	3.50	0.68	3.39	0.79	0.53
2	14	97	7.66	-47.35	-44.17	4.48	-12.85	4.81	0.93	4.81	0.93	6.07e-02
2	14	101	4.54	-45.96	-44.57	3.15	-8.27	5.98	0.81	5.98	0.82	0.10
2	14	104	1.53	-51.90	-51.17	0.80	-6.20	7.09	0.64	7.08	0.65	0.18
2	14	108	-7.68	-32.22	-31.28	-8.62	-4.71	10.36	5.09	9.79	5.66	-1.64
2	14	112	-1.70	-36.56	-34.95	-3.30	-7.31	8.70	1.57	8.46	1.81	-1.29
2	14	116	2.70	-39.15	-37.60	1.15	-7.90	8.37	1.13	8.21	1.28	-1.04
2	14	120	5.17	-39.63	-38.55	4.09	-6.88	8.38	1.24	8.27	1.34	-0.86
2	14	124	4.29	-38.40	-37.95	3.83	-4.39	8.28	0.95	8.20	1.03	-0.76
2	14	127	2.85	-38.40	-38.22	2.66	-2.74	8.13	0.56	8.05	0.65	-0.79
2	14	131	-0.65	-55.59	-45.56	-10.68	21.22	10.03	1.19	10.03	1.19	-0.15
2	14	135	1.40	-50.55	-43.92	-5.23	17.34	8.64	1.28	8.63	1.28	0.25
2	14	139	4.31	-46.17	-42.21	0.35	13.58	7.58	1.15	7.55	1.17	0.38
2	14	143	5.45	-42.95	-40.76	3.26	10.07	6.55	1.07	6.53	1.08	0.29
2	14	147	3.55	-39.12	-38.22	2.65	6.13	5.44	0.74	5.44	0.74	-3.78e-03
2	14	150	2.50	-32.28	-31.83	2.05	3.94	4.85	0.41	4.85	0.41	-6.63e-02
2	14	152	-6.33	-80.69	-53.78	-33.25	35.74	22.39	3.17	16.65	8.91	-8.80
2	14	157	-22.87	-113.44	-48.03	-88.27	40.57	31.85	9.16	11.96	29.05	-7.47
2	14	161	-30.83	-44.58	-31.14	-44.26	2.07	15.84	10.10	11.56	14.38	-2.50
2	14	165	-4.08	-49.82	-5.63	-48.26	8.30	4.78	-12.40	-2.19	-5.43	8.43
2	14	166	-24.08	-68.31	-53.60	-38.79	-20.84	2.56	-1.19	2.07	-0.69	1.27
2	14	167	-21.29	-39.89	-38.14	-23.04	5.43	4.00	-5.71	-4.60	2.88	-3.10
2	14	168	-18.05	-54.12	-21.40	-50.76	10.48	0.80	-7.90	-3.96	-3.14	4.33
2	14	169	-17.33	-69.01	-46.40	-39.94	-25.64	2.04	-0.36	2.01	-0.32	0.30
2	14	173	-5.71	-41.44	-6.33	-40.83	-4.66	0.12	-9.98	-1.06	-8.80	3.25
2	14	174	-18.71	-28.93	-28.92	-18.72	-0.34	13.46	9.56	11.31	11.72	-1.94
2	14	175	-11.18	-53.50	-43.54	-21.14	17.95	5.41	0.80	4.38	1.83	-1.92
2	14	179	16.96	-42.94	2.27	-28.25	-25.77	3.94	-8.66	-6.53	1.82	4.72
2	14	183	-13.43	-58.35	-43.61	-28.17	21.09	8.69	1.67	5.91	4.46	-3.43
2	14	184	-25.44	-43.57	-39.52	-29.49	7.55	7.66	-4.15	-2.44	5.95	-4.15
2	14	185	-16.69	-70.32	-48.30	-38.70	26.38	17.35	2.10	7.19	12.27	-7.19
2	14	186	-25.88	-48.92	-38.68	-36.12	11.45	9.03	-3.17	-2.90	8.77	-1.78
2	14	187	-12.95	-74.65	-42.20	-45.40	30.81	15.76	-0.82	-0.77	15.72	-0.86
2	14	188	-24.65	-57.53	-38.71	-43.47	16.27	7.45	-12.89	-12.73	7.29	1.81
2	14	189	-5.25	-101.17	-13.45	-92.97	26.82	17.57	-4.94	-3.42	16.05	5.65
2	14	190	-7.21	-65.00	-19.94	-52.27	23.95	11.10	-9.21	-5.76	7.64	7.63
2	14	191	-9.64	-57.82	-12.05	-55.41	10.51	3.35	-10.65	-3.56	-3.74	7.00
2	14	192	-21.89	-58.80	-32.20	-48.48	16.57	4.41	-8.90	-8.12	3.63	3.11
2	14	193	-4.09	-39.90	-4.17	-39.81	-1.75	1.24	-14.72	-1.93	-11.55	6.37
2	14	194	-9.19	-46.25	-9.19	-46.25	-4.96e-02	1.08	-11.96	-2.22	-8.67	5.66
2	14	195	-17.59	-51.48	-17.63	-51.45	1.07	0.47	-8.41	-2.07	-5.87	4.01
2	14	196	-18.54	-36.08	-31.31	-23.30	-7.80	8.40	0.30	1.37	7.33	-2.74
2	14	197	-37.88	-64.25	-41.49	-60.64	-9.07	4.49	-3.16	-0.79	2.12	3.54
2	14	198	-26.89	-35.62	-34.86	-27.65	-2.46	8.08	-3.39	0.40	4.30	-5.39
2	14	199	-27.49	-68.54	-39.49	-56.54	-18.67	4.26	-1.36	-0.91	3.80	1.53
2	14	200	-34.60	-39.38	-34.64	-39.33	0.46	5.67	-1.53	-1.15	5.28	1.62
2	14	201	-30.49	-46.68	-32.33	-44.83	5.14	9.56	-3.19	-2.48	8.84	2.93
2	14	202	-25.76	-56.01	-27.36	-54.41	6.76	-6.62e-02	-5.64	-1.46	-4.24	2.41
2	14	203	-11.23	-57.30	-31.12	-37.41	-22.82	2.40	1.35	1.39	2.36	0.20
2	14	204	-19.36	-34.01	-26.59	-26.78	7.33	7.36	6.26	6.26	7.35	-5.96e-02
2	14	205	-34.80	-59.04	-35.07	-58.77	2.54	4.63	-9.16	-0.18	-4.34	6.58
2	14	206	-10.58	-50.64	-11.33	-49.88	5.44	5.38	-5.37	-5.32	5.33	0.73
2	14	207	-8.44	-15.15	-8.58	-15.01	0.96	3.48	-0.96	-0.44	2.97	1.43
2	14	208	-27.67	-40.22	-28.67	-39.21	3.41	0.78	-7.42	-7.11	0.47	1.56
2	14	209	-30.62	-45.50	-31.59	-44.53	3.67	6.20	0.82	5.85	1.16	-1.32
2	14	210	-17.63	-39.17	-24.04	-32.76	9.85	5.21	-0.84	2.57	1.80	3.00
2	14	211	-15.42	-36.95	-15.94	-36.43	3.30	2.80	-4.84	-4.72	2.67	0.96
2	14	212	-20.75	-51.60	-29.52	-42.84	13.91	5.08	0.43	3.41	2.09	-2.23
2	14	213	-32.29	-56.92	-47.25	-41.97	-12.03	-1.75	-8.68	-7.42	-3.01	2.67

2	14	214	-25.83	-55.99	-35.25	-46.58	13.97	5.81	1.10	1.68	5.23	1.55
2	14	215	-27.92	-53.32	-31.07	-50.17	8.37	4.71	-1.78	-1.70	4.64	-0.70
2	14	216	-26.74	-53.31	-39.20	-40.86	-13.26	5.68	0.67	5.65	0.69	0.36
2	14	217	-39.51	-78.45	-57.22	-60.75	-19.39	9.08	0.48	8.99	0.58	0.90
2	14	218	-37.56	-85.74	-59.03	-64.27	-23.95	9.78	0.33	9.56	0.56	1.45
2	14	219	-22.65	-76.12	-49.44	-49.33	-26.74	8.27	0.10	7.74	0.64	2.02
2	14	220	-5.68	-24.40	-12.99	-17.10	-9.13	2.64	1.22	2.62	1.24	0.14
2	14	240	-9.13	-49.01	-42.63	-15.52	14.62	3.99	1.01	3.45	1.56	-1.16
2	14	241	-6.47	-44.96	-41.36	-10.06	11.20	2.78	0.79	2.58	0.98	-0.59
2	14	242	-3.43	-42.08	-40.29	-5.22	8.13	1.88	0.42	1.77	0.53	-0.38
2	14	243	-0.75	-39.92	-39.07	-1.60	5.70	1.14	-7.94e-02	0.92	0.15	-0.48
2	14	244	0.36	-36.57	-36.27	5.76e-02	3.33	0.65	-0.53	0.16	-3.76e-02	-0.58
2	14	245	1.13	-28.45	-28.30	0.98	2.07	0.30	-0.62	-0.24	-7.96e-02	-0.45
2	14	246	-17.01	-36.80	-36.42	-17.39	2.73	2.46	-4.34	-3.85	1.97	-1.75
2	14	247	-11.78	-36.59	-36.59	-11.78	-0.13	1.08	-3.87	-3.68	0.89	-0.95
2	14	248	-6.05	-36.81	-36.71	-6.16	-1.78	-1.19e-02	-4.52	-4.28	-0.25	-1.01
2	14	249	-1.89	-36.21	-36.05	-2.05	-2.34	-0.42	-5.06	-4.81	-0.66	-1.04
2	14	250	-7.43e-02	-33.96	-33.85	-0.18	-1.92	-0.31	-5.23	-5.05	-0.49	-0.91
2	14	251	1.01	-24.87	-24.79	0.93	-1.43	-0.12	-5.36	-5.21	-0.27	-0.87
2	14	252	-14.10	-37.42	-32.41	-19.11	-9.58	4.27	0.58	0.72	4.13	-0.68
2	14	253	-6.54	-38.52	-34.31	-10.76	-10.81	2.05	-0.18	0.52	1.35	-1.03
2	14	254	-1.47	-38.84	-35.59	-4.73	-10.53	1.49	-1.07	0.26	0.16	-1.28
2	14	255	0.95	-38.06	-35.77	-1.34	-9.16	1.40	-0.96	0.34	0.11	-1.18
2	14	256	1.07	-35.66	-34.52	-7.18e-02	-6.36	1.26	-0.66	0.50	0.10	-0.94
2	14	257	1.06	-31.13	-30.50	0.42	-4.48	1.40	-0.73	0.61	6.34e-02	-1.03
2	14	258	-21.42	-29.08	-28.90	-21.61	-1.17	8.07	3.36	5.99	5.44	-2.34
2	14	259	-10.85	-37.19	-36.23	-11.81	-4.94	7.32	2.08	6.55	2.85	-1.86
2	14	260	-3.73	-41.25	-40.43	-4.56	-5.50	6.86	1.21	6.55	1.51	-1.27
2	14	261	-0.54	-42.21	-41.73	-1.03	-4.46	6.73	0.98	6.52	1.20	-1.10
2	14	262	0.16	-42.44	-42.31	2.06e-02	-2.40	6.61	0.47	6.41	0.68	-1.10
2	14	263	0.29	-40.81	-40.79	0.27	-1.05	6.56	0.16	6.38	0.33	-1.05
2	14	264	-2.77	-42.03	-22.35	-22.45	-19.63	2.57	-2.69	-2.63	2.50	0.58
2	14	265	-1.59	-46.71	-36.99	-11.31	-18.55	2.33	0.71	0.97	2.07	-0.60
2	14	266	0.65	-46.71	-41.92	-4.13	-14.27	2.97	0.94	2.61	1.29	-0.77
2	14	267	1.05	-45.52	-43.18	-1.28	-10.17	3.69	0.62	3.46	0.85	-0.81
2	14	268	0.64	-44.99	-44.10	-0.26	-6.32	4.35	0.37	4.22	0.50	-0.71
2	14	269	0.32	-46.37	-45.96	-9.13e-02	-4.36	5.13	0.27	5.06	0.34	-0.59
2	22	4	12.86	-47.33	-45.62	11.15	10.02	17.35	3.11	17.33	3.13	-0.46
2	22	17	-28.74	-39.87	-28.74	-39.87	-6.19e-02	14.00	9.61	10.77	12.84	1.93
2	22	18	-23.14	-31.36	-31.18	-23.32	1.21	7.47	2.13	6.11	3.48	2.32
2	22	19	-24.71	-54.15	-25.72	-53.15	-5.36	6.95	3.50e-03	4.85	2.10	3.19
2	22	20	-16.66	-53.46	-22.85	-47.28	-13.76	2.13	-9.76	-3.96e-03	-7.63	4.56
2	22	21	-28.44	-47.40	-30.49	-45.34	-5.89	9.64	-8.44	0.94	0.26	9.03
2	22	22	-2.69	-52.14	-14.53	-40.30	-21.10	1.38	-6.51	-0.89	-4.23	3.57
2	22	23	-7.39	-60.84	-21.69	-46.53	-23.67	2.56	-4.82	-0.18	-2.09	3.56
2	22	24	-11.44	-68.31	-27.77	-51.98	-25.73	4.34	-3.69	-8.47e-02	0.73	3.99
2	22	30	8.25	-11.59	7.61	-10.95	-3.49	3.26	1.41	3.14	1.54	-0.47
2	22	31	11.41	-18.73	-1.60	-5.71	14.93	2.46	-3.03	-2.93	2.36	-0.71
2	22	34	-10.37	-86.27	-11.53	-85.10	9.33	-0.47	-13.73	-13.58	-0.62	1.42
2	22	40	10.69	-28.28	-5.04	-12.56	-19.12	4.00	-2.27	0.63	1.10	3.13
2	22	41	3.04	-55.41	-18.00	-34.37	-28.05	6.02	0.14	0.80	5.36	1.86
2	22	44	-10.66	-83.92	-37.57	-57.00	-35.32	10.37	0.40	0.81	9.96	1.97
2	22	45	-28.35	-46.28	-29.66	-44.97	4.66	1.50	-9.21	-9.08	1.38	1.16
2	22	46	-37.58	-45.06	-37.95	-44.68	-1.63	1.32	-12.48	-11.39	0.22	3.74
2	22	48	-19.28	-65.04	-33.22	-51.11	-21.06	2.58	-8.77	-3.34	-2.85	5.67
2	22	49	-32.99	-42.65	-37.98	-37.66	4.83	-0.85	-2.55	-2.44	-0.96	0.42
2	22	50	-16.87	-72.25	-39.86	-49.25	-27.29	-0.73	-5.56	-4.58	-1.71	1.94
2	22	51	-43.27	-48.13	-45.54	-45.86	-2.43	-1.05	-10.84	-10.28	-1.61	2.26
2	22	52	-43.47	-57.85	-53.36	-47.96	-6.66	0.30	-1.03	-0.27	-0.45	0.66
2	22	53	-13.71	-49.44	-14.28	-48.88	-4.45	-2.07	-11.47	-11.07	-2.47	1.89
2	22	54	-30.30	-54.31	-38.14	-46.48	-11.26	2.36	-11.04	-6.81	-1.86	6.23
2	22	55	-5.93	-52.02	-23.65	-34.30	-22.42	3.81	-0.14	2.90	0.77	1.66
2	22	59	-17.07	-83.64	-42.54	-58.18	-32.35	9.29	0.21	0.62	8.88	1.89
2	22	63	-11.51	-75.57	-34.19	-52.89	-30.64	6.95	0.11	0.62	6.44	1.80
2	22	66	-2.03	-65.70	-21.15	-46.57	-29.19	3.41	-0.63	0.34	2.44	1.73
2	22	70	5.16	-56.49	-10.25	-41.09	-26.69	1.53	-2.43	2.15e-02	-0.92	1.92
2	22	74	6.89	-49.89	-3.82	-39.18	-22.21	1.13	-4.64	-0.39	-3.12	2.54
2	22	78	19.08	-44.95	-42.52	16.65	12.23	17.10	0.18	17.07	0.21	-0.71
2	22	81	5.35	-32.36	0.28	-27.29	-12.86	0.56	-13.28	-0.90	-11.82	4.25
2	22	85	-6.60	-61.49	-20.23	-47.86	-23.72	-0.78	-12.09	-10.55	-2.32	3.87
2	22	89	-7.61	-55.02	-37.58	-25.05	-22.87	-4.26e-02	-6.90	-6.18	-0.76	2.10
2	22	93	-2.18	-48.23	-40.42	-9.99	-17.28	2.33e-02	-4.12	-3.93	-0.16	0.85
2	22	97	1.69	-44.02	-40.44	-1.88	-12.27	-8.90e-03	-2.89	-2.86	-3.83e-02	0.29
2	22	101	2.55	-39.98	-38.27	0.83	-8.37	4.84e-02	-2.14	-2.10	1.71e-02	0.26
2	22	104	0.70	-47.83	-46.86	-0.28	-6.82	0.17	-1.40	-1.32	8.13e-02	0.36

2	22	108	-7.69	-33.24	-33.21	-7.71	0.75	8.13	2.48	7.52	3.09	-1.75
2	22	112	-4.59	-35.35	-35.30	-4.64	-1.28	6.91	0.96	6.66	1.22	-1.20
2	22	116	-2.16	-36.73	-36.63	-2.27	-1.90	6.37	0.77	6.24	0.90	-0.85
2	22	120	-0.18	-36.72	-36.66	-0.24	-1.48	6.13	0.82	6.07	0.88	-0.58
2	22	124	0.74	-35.19	-35.16	0.71	-1.07	5.93	0.59	5.90	0.63	-0.42
2	22	127	1.18	-31.43	-31.39	1.14	-1.11	5.87	0.30	5.80	0.36	-0.59
2	22	131	9.93	-46.15	-45.01	8.79	7.91	17.28	2.15	17.28	2.15	0.12
2	22	135	7.24	-45.48	-44.70	6.46	6.38	17.15	2.25	17.14	2.26	0.34
2	22	139	5.43	-44.87	-44.40	4.96	4.85	16.93	2.16	16.93	2.17	0.35
2	22	143	3.21	-44.05	-43.78	2.93	3.61	16.63	2.17	16.63	2.17	0.28
2	22	147	0.44	-44.81	-44.74	0.38	1.67	16.25	1.63	16.25	1.63	3.71e-02
2	22	150	7.13e-02	-38.40	-38.40	7.02e-02	0.20	16.11	1.03	16.11	1.03	9.19e-02
2	22	152	15.83	-54.10	-48.97	10.70	18.23	23.47	5.07	19.57	8.97	-7.52
2	22	157	-3.97	-51.61	-35.24	-20.34	22.63	27.86	9.81	12.37	25.29	-6.30
2	22	161	-24.70	-37.32	-33.04	-28.97	5.97	10.13	3.59	8.03	5.69	-3.05
2	22	165	-2.36	-7.58	-2.55	-7.39	-0.98	4.69	-12.76	-1.96	-6.11	8.47
2	22	166	-34.54	-69.93	-54.59	-49.89	-17.54	1.07	-0.61	1.04	-0.58	0.23
2	22	167	-5.91	-36.83	-35.74	-6.99	5.69	2.04	-3.81	-3.74	1.97	-0.62
2	22	168	-10.75	-34.32	-13.03	-32.04	-6.96	1.12	-9.01	-3.74	-4.15	5.06
2	22	169	-19.93	-72.99	-45.85	-47.07	-26.52	1.52	-0.31	1.42	-0.21	-0.42
2	22	173	7.41	-34.83	3.83e-02	-27.46	-16.04	0.87	-9.01	-0.72	-7.43	3.63
2	22	174	-12.38	-33.22	-31.74	-13.86	5.36	9.21	4.41	8.05	5.56	-2.05
2	22	175	2.46	-43.87	-42.17	0.76	8.71	8.39	2.23	8.37	2.26	-0.38
2	22	179	-2.47	-72.86	-4.44	-70.89	-11.60	-2.49	-16.68	-15.39	-3.78	4.08
2	22	183	1.15	-43.36	-40.88	-1.33	10.21	9.24	4.23	8.66	4.80	-1.59
2	22	184	-9.01	-37.26	-36.13	-10.14	5.54	5.50	-3.44	-3.33	5.39	-0.98
2	22	185	-1.95	-47.89	-43.36	-6.48	13.70	15.01	5.07	8.62	11.46	-4.76
2	22	186	-12.98	-34.99	-33.24	-14.73	5.95	8.18	-4.55	-4.52	8.15	0.57
2	22	187	-2.94	-40.80	-31.86	-11.88	16.08	13.44	7.84e-03	4.95e-02	13.40	0.75
2	22	188	-17.60	-31.70	-28.19	-21.11	6.10	6.75	-12.04	-11.59	6.30	2.89
2	22	189	-0.11	-30.44	-6.80	-23.75	12.58	14.55	-4.85	-3.05	12.75	5.62
2	22	190	-6.65	-26.26	-12.75	-20.16	9.08	9.57	-9.38	-5.07	5.27	7.94
2	22	191	-6.83	-27.39	-7.18	-27.05	-2.64	3.32	-11.36	-3.27	-4.77	7.30
2	22	192	-20.72	-27.67	-21.30	-27.10	1.91	3.38	-8.92	-7.45	1.92	3.98
2	22	193	2.44	-21.77	-1.62	-17.71	-9.05	1.78	-14.30	-1.73	-10.79	6.64
2	22	194	0.57	-32.74	-4.47	-27.70	-11.93	1.74	-11.79	-1.96	-8.08	6.04
2	22	195	-1.05	-45.39	-9.23	-37.22	-17.19	1.29	-8.29	-1.78	-5.21	4.47
2	22	196	-11.77	-29.19	-29.13	-11.83	1.04	3.30	-3.26	-3.06	3.10	-1.13
2	22	197	-11.62	-74.73	-30.92	-55.43	-29.08	5.22	-2.65	-0.62	3.19	3.44
2	22	198	-12.64	-32.97	-32.93	-12.68	0.89	4.21	-1.79	-1.57	4.00	-1.12
2	22	199	-7.24	-78.27	-31.80	-53.71	-33.78	5.02	-1.09	-0.77	4.71	1.36
2	22	200	-20.88	-28.69	-28.64	-20.93	-0.63	7.20	-4.18	-3.19	6.21	3.20
2	22	201	-23.45	-27.17	-24.13	-26.49	-1.44	8.54	-4.13	-3.37	7.78	3.00
2	22	202	-12.83	-42.85	-18.09	-37.59	-11.41	0.32	-6.91	-1.60	-4.99	3.20
2	22	203	-3.50	-63.32	-27.34	-39.47	-29.29	2.87	1.14	1.17	2.85	-0.19
2	22	204	-23.54	-38.18	-34.10	-27.62	6.56	7.76	2.60	7.71	2.65	0.50
2	22	205	-19.51	-58.78	-27.78	-50.52	-16.01	4.35	-9.46	-0.41	-4.70	6.56
2	22	206	-17.41	-77.24	-21.56	-73.09	15.21	1.06	-11.60	-11.60	1.06	-4.41e-02
2	22	207	-4.38	-29.76	-16.48	-17.65	12.68	0.48	-3.29	-3.27	0.46	-0.32
2	22	208	-29.35	-57.39	-32.97	-53.77	9.40	6.66e-02	-11.32	-11.23	-2.01e-02	0.99
2	22	209	-29.25	-34.71	-32.34	-31.62	2.71	5.36	-0.39	5.28	-0.31	-0.67
2	22	210	-25.63	-37.71	-29.42	-33.92	5.61	3.62	-1.11	2.71	-0.20	1.87
2	22	211	-22.29	-44.68	-23.23	-43.73	4.49	2.18e-02	-8.58	-8.17	-0.39	1.84
2	22	212	-30.47	-42.59	-33.58	-39.48	5.30	4.47	2.41	3.77	3.11	-0.98
2	22	213	-30.28	-62.03	-46.59	-45.72	-15.87	-1.62	-9.18	-8.25	-2.56	2.48
2	22	214	-34.00	-42.25	-34.69	-41.56	2.29	8.72	-0.47	2.56	5.68	4.32
2	22	215	-20.60	-33.82	-22.53	-31.89	-4.67	2.59	-2.17	-2.10	2.52	0.57
2	22	216	-43.47	-59.96	-44.37	-59.07	-3.73	5.21	-9.43e-02	4.89	0.23	-1.27
2	22	217	-56.68	-90.39	-60.50	-86.57	-10.69	8.02	0.14	7.98	0.18	-0.61
2	22	218	-53.91	-99.40	-61.73	-91.59	-17.16	8.61	0.20	8.60	0.21	0.29
2	22	219	-36.39	-86.52	-51.22	-71.69	-22.88	7.08	0.13	6.89	0.32	1.13
2	22	220	-20.00	-27.49	-20.53	-26.96	-1.92	3.04	0.77	2.87	0.94	-0.60
2	22	240	2.59	-42.85	-41.72	1.46	7.08	8.16	1.82	8.16	1.82	4.90e-02
2	22	241	2.31	-42.05	-41.35	1.61	5.53	7.89	1.24	7.89	1.25	0.18
2	22	242	1.89	-41.57	-41.18	1.50	4.08	7.55	0.97	7.55	0.97	0.14
2	22	243	1.77	-40.88	-40.68	1.57	2.90	7.19	0.80	7.19	0.80	1.76e-02
2	22	244	1.28	-40.45	-40.41	1.24	1.31	6.86	0.46	6.86	0.47	-9.97e-02
2	22	245	1.36	-35.62	-35.62	1.36	0.27	6.82	0.24	6.81	0.24	0.13
2	22	246	-4.12	-35.36	-34.65	-4.82	4.65	0.60	-3.83	-3.81	0.59	-0.29
2	22	247	-2.60	-35.29	-35.00	-2.88	3.04	-0.15	-4.36	-4.35	-0.16	-0.15
2	22	248	-0.82	-35.50	-35.38	-0.94	2.04	-0.69	-4.96	-4.94	-0.70	-0.26
2	22	249	0.19	-35.05	-35.00	0.14	1.31	-0.83	-5.35	-5.33	-0.85	-0.31
2	22	250	0.30	-33.68	-33.67	0.29	0.48	-0.55	-5.50	-5.49	-0.56	-0.22
2	22	251	0.40	-30.84	-30.84	0.40	5.84e-02	-0.31	-5.76	-5.76	-0.31	7.12e-02
2	22	252	-9.00	-28.81	-28.81	-9.01	-0.30	0.94	-4.59	-4.55	0.90	-0.46

2	22	253	-4.43	-30.31	-30.27	-4.47	-1.00	-0.27	-5.46	-5.38	-0.34	-0.62
2	22	254	-1.38	-31.10	-31.07	-1.40	-0.91	-0.79	-5.99	-5.92	-0.86	-0.60
2	22	255	-0.13	-30.83	-30.82	-0.14	-0.54	-0.84	-6.18	-6.14	-0.88	-0.48
2	22	256	1.36e-02	-28.66	-28.65	5.65e-03	-0.48	-0.52	-6.23	-6.21	-0.55	-0.37
2	22	257	-0.15	-27.78	-27.77	-0.17	-0.63	-0.23	-6.47	-6.43	-0.27	-0.48
2	22	258	-24.82	-35.84	-35.84	-24.82	-1.08e-02	7.24	2.20	6.87	2.58	-1.32
2	22	259	-16.57	-40.87	-40.29	-17.16	-3.73	8.10	1.77	7.72	2.16	-1.51
2	22	260	-9.53	-43.47	-42.82	-10.18	-4.64	8.35	1.58	8.19	1.74	-1.02
2	22	261	-4.56	-43.32	-42.89	-4.99	-4.08	8.49	1.42	8.42	1.49	-0.71
2	22	262	-1.56	-43.04	-42.83	-1.77	-2.94	8.51	0.78	8.46	0.83	-0.61
2	22	263	0.14	-36.60	-36.46	2.10e-03	-2.21	8.52	0.33	8.50	0.35	-0.42
2	22	264	-13.87	-44.21	-24.38	-33.71	-14.44	-0.74	-7.17	-7.16	-0.75	0.27
2	22	265	-12.48	-47.12	-37.34	-22.26	-15.59	0.65	-3.74	-3.73	0.64	-0.16
2	22	266	-7.50	-45.64	-40.83	-12.31	-12.66	0.82	-1.89	-1.86	0.79	-0.26
2	22	267	-4.22	-43.59	-41.15	-6.65	-9.49	0.45	-1.09	-1.01	0.37	-0.33
2	22	268	-1.88	-41.14	-40.03	-3.00	-6.53	0.25	-0.58	-0.44	0.12	-0.31
2	22	269	-1.04	-42.60	-41.99	-1.66	-5.03	0.18	8.63e-02	0.16	0.11	-3.88e-02
2	38	4	-7.41	-55.37	-47.39	-15.39	17.86	10.35	2.01	10.29	2.07	-0.70
2	38	17	-30.78	-53.74	-33.11	-51.40	6.94	12.99	10.60	11.18	12.41	1.03
2	38	18	-26.49	-38.50	-35.78	-29.21	5.03	5.06	0.65	5.05	0.66	0.21
2	38	19	-28.76	-67.75	-29.93	-66.58	6.65	7.07	1.75	5.70	3.12	2.33
2	38	20	-26.72	-58.06	-27.13	-57.64	3.59	1.73	-8.21	0.50	-6.98	3.27
2	38	21	-30.27	-51.50	-32.51	-49.25	6.53	8.21	-6.61	1.17	0.43	7.40
2	38	22	-19.92	-52.17	-19.93	-52.16	-0.54	0.87	-4.18	-0.60	-2.71	2.30
2	38	23	-26.47	-55.18	-26.55	-55.10	-1.49	2.07	-3.29	3.21e-02	-1.25	2.60
2	38	24	-31.14	-57.65	-31.52	-57.28	-3.15	3.78	-2.75	5.19e-02	0.97	3.23
2	38	30	9.35	-8.60	4.42	-3.67	-8.01	2.31	1.12	2.03	1.40	-0.51
2	38	31	-3.31	-10.22	-3.84	-9.69	1.84	4.58	-0.29	-0.27	4.56	0.32
2	38	34	-18.58	-53.07	-18.58	-53.07	-0.20	6.69	-4.50	-3.98	6.17	2.35
2	38	40	5.97	-17.66	-5.88	-5.82	-11.81	4.13	-2.16	0.93	1.04	3.15
2	38	41	-10.65	-44.25	-20.83	-34.08	-15.44	5.60	0.31	0.92	4.98	1.70
2	38	44	-33.20	-68.15	-41.50	-59.85	-14.88	9.76	0.51	0.81	9.46	1.62
2	38	45	-29.20	-40.94	-31.63	-38.51	4.75	1.52	-4.88	-4.87	1.51	-0.31
2	38	46	-36.42	-43.73	-37.94	-42.21	2.96	-0.34	-9.96	-9.51	-0.79	2.04
2	38	48	-32.90	-54.32	-34.11	-53.11	-4.96	1.87	-7.52	-2.94	-2.71	4.69
2	38	49	-26.71	-36.39	-36.31	-26.79	-0.86	2.50	-1.84	0.51	0.15	2.16
2	38	50	-27.67	-57.84	-38.52	-46.99	-14.48	-1.16	-4.73	-3.96	-1.92	1.47
2	38	51	-37.38	-43.74	-43.42	-37.70	-1.38	-1.50	-8.31	-7.58	-2.23	2.11
2	38	52	-30.63	-52.92	-50.22	-33.33	-7.27	2.61	-1.43	1.70	-0.52	1.69
2	38	53	-20.29	-34.00	-23.19	-31.10	-5.60	2.46	-5.20	-4.83	2.09	1.64
2	38	54	-38.23	-46.88	-38.34	-46.78	-0.95	0.80	-9.39	-6.24	-2.35	4.71
2	38	55	-4.14	-37.71	-22.28	-19.57	-16.73	4.45	-4.23e-02	3.47	0.93	1.85
2	38	59	-42.54	-65.74	-46.19	-62.10	-8.45	8.84	0.37	0.64	8.57	1.49
2	38	63	-37.26	-59.71	-38.77	-58.21	-5.61	6.81	0.31	0.62	6.49	1.39
2	38	66	-26.59	-55.19	-27.37	-54.41	-4.68	3.71	-6.82e-02	0.37	3.27	1.21
2	38	70	-17.18	-52.17	-17.68	-51.68	-4.13	1.77	-0.79	8.71e-02	0.90	1.21
2	38	74	-10.37	-51.45	-10.65	-51.17	-3.37	1.17	-2.11	-0.26	-0.68	1.62
2	38	78	-6.37	-56.83	-45.67	-17.53	20.94	11.13	-0.79	11.06	-0.71	-0.93
2	38	81	-2.12	-44.47	-2.74	-43.85	-5.11	0.52	-8.46	-0.69	-7.26	3.06
2	38	85	-1.31	-42.53	-26.45	-17.39	-20.11	3.22	-4.09	-1.26	0.39	3.56
2	38	89	1.30	-49.38	-41.18	-6.91	-18.67	3.82	-0.42	2.89	0.52	1.76
2	38	93	2.84	-49.56	-45.76	-0.96	-13.58	5.44	0.84	5.36	0.92	0.62
2	38	97	3.23	-48.46	-46.72	1.49	-9.31	6.73	1.07	6.72	1.07	0.13
2	38	101	1.80	-48.22	-47.47	1.04	-6.11	7.80	0.92	7.80	0.92	0.15
2	38	104	-5.74e-02	-53.85	-53.44	-0.47	-4.69	8.82	0.70	8.82	0.71	0.19
2	38	108	-8.95	-37.43	-37.25	-9.14	-2.31	8.79	3.85	8.31	4.33	-1.46
2	38	112	-4.28	-40.23	-39.67	-4.84	-4.45	7.46	1.26	7.24	1.49	-1.16
2	38	116	-0.73	-42.28	-41.60	-1.41	-5.28	7.12	0.92	6.98	1.06	-0.94
2	38	120	1.62	-43.02	-42.49	1.09	-4.85	7.07	0.98	6.97	1.08	-0.76
2	38	124	1.82	-42.52	-42.29	1.59	-3.14	6.97	0.74	6.90	0.82	-0.68
2	38	127	1.27	-42.56	-42.47	1.19	-1.92	6.85	0.43	6.77	0.51	-0.71
2	38	131	-6.13	-52.16	-46.88	-11.41	14.67	9.58	1.14	9.58	1.14	-0.11
2	38	135	-3.92	-48.99	-45.75	-7.16	11.64	8.50	1.19	8.50	1.20	0.20
2	38	139	-0.70	-46.19	-44.41	-2.48	8.83	7.61	1.09	7.59	1.10	0.29
2	38	143	1.28	-44.06	-43.15	0.36	6.37	6.73	1.01	6.72	1.02	0.21
2	38	147	1.03	-41.64	-41.29	0.68	3.85	5.80	0.70	5.80	0.70	-3.60e-02
2	38	150	0.76	-37.16	-36.99	0.60	2.48	5.35	0.39	5.35	0.39	-6.39e-02
2	38	152	-10.46	-70.63	-52.17	-28.92	27.75	18.93	2.87	14.51	7.30	-7.17
2	38	157	-22.73	-95.38	-43.37	-74.74	32.76	25.33	7.53	10.11	22.75	-6.27
2	38	161	-34.90	-40.01	-37.27	-37.65	2.55	12.02	7.69	9.62	10.09	-2.15
2	38	165	-3.72	-46.80	-4.53	-45.99	5.86	3.35	-10.04	-1.93	-4.76	6.55
2	38	166	-27.53	-59.83	-51.26	-36.10	-14.26	2.54	-0.83	2.37	-0.66	0.73
2	38	167	-19.94	-42.23	-41.29	-20.88	4.48	2.81	-5.11	-4.38	2.08	-2.28
2	38	168	-16.41	-51.04	-18.21	-49.24	7.69	-8.48e-02	-6.15	-3.24	-2.99	3.03
2	38	169	-20.32	-60.22	-43.31	-37.24	-19.72	2.26	-0.19	2.23	-0.16	-0.25

2	38	173	-4.25	-44.12	-4.65	-43.72	-3.97	0.85	-5.19	-0.52	-3.82	2.53
2	38	174	-17.20	-35.56	-35.52	-17.24	0.89	10.83	7.29	9.49	8.63	-1.72
2	38	175	-13.88	-50.59	-45.17	-19.30	13.02	4.56	0.88	3.88	1.57	-1.43
2	38	179	-10.14	-38.27	-16.25	-32.16	-11.60	4.11	-6.57	-4.41	1.96	4.29
2	38	183	-16.39	-53.37	-44.59	-25.16	15.73	7.05	1.63	4.92	3.77	-2.65
2	38	184	-24.33	-43.87	-41.71	-26.49	6.13	5.82	-3.69	-2.69	4.82	-2.92
2	38	185	-19.35	-62.59	-47.51	-34.43	20.61	13.84	1.76	5.73	9.87	-5.67
2	38	186	-26.39	-46.01	-39.61	-32.79	9.20	7.23	-3.78	-3.66	7.11	-1.15
2	38	187	-15.30	-64.94	-38.90	-41.34	24.79	12.08	-0.98	-0.94	12.05	-0.65
2	38	188	-25.22	-51.39	-36.47	-40.13	12.96	5.63	-11.31	-11.23	5.55	1.16
2	38	189	-5.10	-86.29	-11.18	-80.22	21.37	12.87	-4.25	-3.13	11.75	4.24
2	38	190	-8.57	-57.73	-17.50	-48.79	18.96	7.86	-7.84	-5.09	5.12	5.97
2	38	191	-8.79	-54.43	-10.11	-53.10	7.66	2.10	-8.58	-3.07	-3.41	5.34
2	38	192	-21.88	-52.78	-28.81	-45.85	12.89	2.53	-7.26	-6.85	2.13	1.95
2	38	193	-3.06	-41.71	-3.15	-41.62	-1.88	1.31	-10.19	-1.49	-7.39	4.94
2	38	194	-7.16	-47.27	-7.17	-47.26	-0.57	1.26	-8.15	-1.67	-5.22	4.36
2	38	195	-13.85	-51.26	-13.85	-51.25	0.36	0.75	-5.38	-1.45	-3.18	2.94
2	38	196	-19.68	-38.00	-36.53	-21.15	-4.98	6.24	0.22	1.19	5.26	-2.22
2	38	197	-31.24	-60.88	-33.37	-58.75	-7.66	4.69	-2.02	-0.48	3.15	2.82
2	38	198	-24.96	-38.61	-38.52	-25.04	-1.05	5.98	-1.96	0.53	3.49	-3.68
2	38	199	-24.36	-62.86	-32.58	-54.64	-15.77	4.59	-0.77	-0.59	4.41	0.95
2	38	200	-34.91	-37.39	-37.01	-35.30	0.90	5.41	-0.99	-0.50	4.93	1.69
2	38	201	-30.62	-42.77	-32.17	-41.21	4.06	7.71	-1.73	-1.42	7.39	1.70
2	38	202	-22.78	-52.75	-23.55	-51.97	4.76	-0.34	-4.66	-0.95	-4.04	1.51
2	38	203	-12.19	-50.49	-27.04	-35.64	-18.66	2.74	1.50	1.55	2.69	-0.23
2	38	204	-21.07	-38.42	-34.88	-24.60	6.99	5.72	4.79	5.19	5.32	-0.46
2	38	205	-30.33	-55.73	-30.42	-55.63	1.56	3.79	-7.95	-6.05e-02	-4.10	5.51
2	38	206	-23.51	-51.55	-24.08	-50.97	3.98	4.55	-4.62	-4.55	4.48	0.82
2	38	207	-14.78	-18.78	-17.55	-16.01	1.85	3.30	-0.78	-8.17e-02	2.61	1.53
2	38	208	-31.59	-42.14	-33.30	-40.42	3.89	0.17	-6.85	-6.58	-0.11	1.36
2	38	209	-34.74	-41.96	-37.09	-39.62	3.38	5.94	0.25	5.64	0.55	-1.26
2	38	210	-23.79	-39.61	-33.46	-29.94	7.71	3.42	0.52	2.46	1.48	1.36
2	38	211	-27.82	-33.89	-28.66	-33.06	2.09	2.13	-4.15	-4.15	2.13	0.10
2	38	212	-26.60	-46.92	-34.48	-39.05	9.90	5.18	0.21	3.16	2.23	-2.44
2	38	213	-33.57	-51.32	-44.23	-40.66	-8.69	-2.15	-7.72	-6.81	-3.06	2.06
2	38	214	-28.56	-50.38	-35.33	-43.62	10.09	5.18	0.89	1.74	4.34	1.71
2	38	215	-26.82	-48.89	-28.72	-46.98	6.20	3.36	-1.38	-0.98	2.97	-1.32
2	38	216	-29.61	-44.20	-40.08	-33.73	-6.57	6.07	0.79	6.07	0.79	0.17
2	38	217	-42.69	-65.20	-55.68	-52.20	-11.12	9.34	0.66	9.30	0.70	0.60
2	38	218	-40.64	-72.55	-56.84	-56.36	-15.95	9.82	0.56	9.70	0.68	1.04
2	38	219	-25.44	-65.39	-47.09	-43.74	-19.91	8.07	0.40	7.74	0.73	1.55
2	38	220	-8.99	-22.42	-17.96	-13.45	-6.33	2.77	1.15	2.77	1.15	2.19e-02
2	38	240	-11.46	-47.94	-44.74	-14.65	10.31	3.51	0.93	3.17	1.27	-0.87
2	38	241	-8.57	-45.59	-43.96	-10.20	7.59	2.58	0.64	2.45	0.77	-0.49
2	38	242	-5.40	-43.90	-43.17	-6.13	5.25	1.85	0.33	1.76	0.42	-0.35
2	38	243	-2.55	-42.52	-42.21	-2.87	3.52	1.22	-4.61e-02	1.05	0.13	-0.43
2	38	244	-0.75	-40.34	-40.24	-0.85	2.02	0.75	-0.36	0.42	-2.71e-02	-0.51
2	38	245	0.28	-35.00	-34.96	0.24	1.25	0.38	-0.35	9.13e-02	-6.38e-02	-0.36
2	38	246	-15.91	-40.52	-40.30	-16.14	2.33	1.60	-4.32	-3.96	1.24	-1.41
2	38	247	-11.44	-40.70	-40.70	-11.44	4.87e-02	0.62	-4.08	-3.92	0.46	-0.83
2	38	248	-6.65	-40.94	-40.89	-6.70	-1.30	-0.19	-4.59	-4.41	-0.37	-0.87
2	38	249	-2.99	-40.60	-40.51	-3.07	-1.74	-0.49	-5.01	-4.82	-0.68	-0.90
2	38	250	-0.92	-39.15	-39.09	-0.98	-1.41	-0.35	-5.15	-5.02	-0.49	-0.79
2	38	251	0.20	-33.25	-33.21	0.17	-1.02	-0.15	-5.30	-5.19	-0.26	-0.76
2	38	252	-15.74	-39.45	-37.67	-17.52	-6.25	3.10	0.22	0.41	2.91	-0.72
2	38	253	-9.00	-40.98	-39.29	-10.70	-7.16	1.59	-0.41	0.23	0.95	-0.93
2	38	254	-4.28	-41.68	-40.30	-5.66	-7.05	1.13	-1.04	2.10e-02	6.79e-02	-1.09
2	38	255	-1.56	-41.55	-40.57	-2.54	-6.21	1.06	-0.95	7.76e-02	3.38e-02	-1.01
2	38	256	-0.38	-40.43	-39.96	-0.85	-4.29	0.96	-0.70	0.21	4.65e-02	-0.82
2	38	257	0.15	-37.54	-37.31	-8.25e-02	-2.97	1.09	-0.79	0.28	2.14e-02	-0.93
2	38	258	-20.55	-35.70	-35.66	-20.59	0.79	6.56	2.31	4.81	4.06	-2.09
2	38	259	-12.44	-40.37	-40.08	-12.72	-2.80	6.07	1.55	5.34	2.29	-1.67
2	38	260	-5.96	-43.83	-43.41	-6.38	-3.97	5.72	0.98	5.41	1.29	-1.18
2	38	261	-2.39	-44.99	-44.69	-2.69	-3.55	5.63	0.78	5.41	0.99	-1.00
2	38	262	-0.84	-45.41	-45.32	-0.93	-2.05	5.53	0.35	5.34	0.54	-0.97
2	38	263	-0.29	-44.59	-44.57	-0.31	-0.98	5.50	9.32e-02	5.33	0.26	-0.95
2	38	264	-13.10	-39.08	-29.40	-22.78	-12.56	2.10	-1.44	-1.41	2.06	0.35
2	38	265	-7.93	-45.53	-40.20	-13.26	-13.11	2.36	1.35	1.90	1.81	-0.50
2	38	266	-3.57	-47.33	-44.70	-6.20	-10.41	3.71	1.10	3.54	1.27	-0.64
2	38	267	-1.66	-47.20	-45.93	-2.93	-7.49	4.53	0.78	4.40	0.91	-0.69
2	38	268	-0.68	-47.48	-47.00	-1.17	-4.76	5.19	0.45	5.12	0.53	-0.61
2	38	269	-0.35	-49.43	-49.20	-0.58	-3.35	5.93	0.29	5.88	0.35	-0.55
2	58	4	-5.68	-57.22	-50.49	-12.41	17.37	9.49	-1.34	6.23	1.91	-4.96
2	58	17	-24.60	-42.54	-36.98	-30.17	8.30	26.04	15.25	25.75	15.53	1.73
2	58	18	-16.93	-45.26	-42.77	-19.42	8.03	20.75	8.85	20.53	9.06	1.58

2	58	19	-26.38	-48.24	-29.75	-44.86	7.89	13.75	-6.60	13.70	-6.55	0.95
2	58	20	-18.58	-42.80	-20.39	-40.98	6.37	4.57	-18.80	4.53	-18.75	-1.06
2	58	21	-25.27	-40.42	-31.65	-34.05	7.48	13.13	-10.44	7.56	-4.88	10.01
2	58	22	-5.22	-44.93	-6.26	-43.89	6.34	3.12	-8.81	0.32	-6.02	-5.05
2	58	23	-8.48	-42.35	-8.96	-41.87	4.00	3.31	-5.90	2.35	-4.94	-2.82
2	58	24	-12.26	-43.32	-12.29	-43.29	0.89	1.95	-2.58	1.91	-2.54	0.43
2	58	30	-3.54	-8.53	-6.61	-5.45	-2.43	2.63	0.97	2.40	1.21	0.58
2	58	31	-13.52	-27.53	-25.01	-16.05	5.38	5.73	-1.13	-0.92	5.51	1.20
2	58	34	-37.39	-59.32	-44.46	-52.25	10.25	7.41	-5.63	-5.28	7.06	2.12
2	58	40	4.63	-17.53	-2.44	-10.46	-10.33	1.77	0.16	0.87	1.05	0.80
2	58	41	-1.83	-37.40	-8.35	-30.88	-13.76	6.04	0.67	0.95	5.75	-1.21
2	58	44	-9.63	-53.54	-13.99	-49.18	-13.13	10.02	0.94	0.99	9.97	-0.68
2	58	45	-26.15	-43.71	-40.54	-29.32	6.75	2.08	-7.53	-7.42	1.97	-1.02
2	58	46	-28.57	-43.01	-39.64	-31.93	6.11	-0.81	-12.86	-11.44	-2.24	3.89
2	58	48	-26.30	-39.59	-26.30	-39.58	-0.28	0.24	-11.07	-2.31	-8.52	4.72
2	58	49	-23.95	-45.72	-41.14	-28.53	8.87	2.04	-4.61	-1.46	-1.10	3.32
2	58	50	-27.91	-42.29	-32.22	-37.98	-6.59	-5.35	-6.51	-6.01	-5.84	0.57
2	58	51	-30.44	-46.87	-44.27	-33.04	6.00	-3.87	-13.06	-12.00	-4.92	2.93
2	58	52	-31.15	-51.39	-50.22	-32.32	4.71	0.93	-3.74	-0.52	-2.28	2.16
2	58	53	-22.16	-41.42	-39.18	-24.41	6.18	2.33	-4.46	-4.42	2.29	0.55
2	58	54	-31.98	-38.68	-35.97	-34.69	3.29	0.24	-13.32	-6.24	-6.84	6.77
2	58	55	-12.26	-34.08	-22.32	-24.02	-10.88	4.40	0.59	4.15	0.83	-0.94
2	58	59	-8.02	-49.57	-8.93	-48.66	-6.07	8.66	1.10	1.12	8.63	-0.45
2	58	63	1.12	-44.30	1.09	-44.27	-1.11	6.94	1.16	1.40	6.70	-1.16
2	58	66	8.46	-41.75	8.33	-41.61	2.58	6.78	-0.25	1.47	5.06	-3.02
2	58	70	10.37	-44.56	9.83	-44.01	5.43	8.74	-1.45	1.24	6.05	-4.49
2	58	74	6.54	-47.93	5.79	-47.19	6.32	8.56	-1.54	0.48	6.54	-4.04
2	58	78	3.20	-56.53	-47.83	-5.50	21.07	7.26	-4.75	5.21	-2.70	-4.52
2	58	81	2.74	-41.57	2.15	-40.99	5.05	1.89	-0.64	-0.63	1.88	-0.13
2	58	85	-8.22	-31.90	-29.23	-10.89	-7.49	3.36	-4.10	-1.50	0.75	3.56
2	58	89	-9.65e-02	-43.44	-41.27	-2.27	-9.45	3.64	-0.58	2.59	0.48	1.83
2	58	93	0.97	-47.24	-46.29	2.33e-02	-6.68	5.00	0.67	4.87	0.80	0.72
2	58	97	0.70	-47.62	-47.22	0.30	-4.40	6.02	0.84	6.01	0.85	0.23
2	58	101	-8.07e-02	-47.41	-47.18	-0.31	-3.31	6.74	0.69	6.73	0.70	0.25
2	58	104	-1.33	-53.30	-53.13	-1.50	-3.00	7.45	0.51	7.44	0.53	0.31
2	58	108	-1.24	-43.60	-42.95	-1.89	5.21	11.90	3.87	11.85	3.93	0.65
2	58	112	0.34	-43.45	-43.26	0.15	2.89	9.40	1.90	9.38	1.92	0.42
2	58	116	0.13	-43.90	-43.88	0.11	0.94	8.08	1.29	8.07	1.30	0.13
2	58	120	-0.26	-44.09	-44.09	-0.26	-8.95e-02	7.49	1.04	7.49	1.04	-6.10e-02
2	58	124	-0.41	-43.15	-43.15	-0.41	-0.37	7.15	0.66	7.14	0.66	-0.19
2	58	127	-4.97e-02	-39.48	-39.48	-5.31e-02	-0.37	6.97	0.35	6.95	0.37	-0.33
2	58	131	-3.78	-53.25	-48.32	-8.71	14.82	8.61	-0.66	6.75	1.20	-3.71
2	58	135	-0.12	-50.33	-46.97	-3.49	12.56	7.87	0.84	7.16	1.55	-2.12
2	58	139	2.29	-48.40	-46.53	0.42	9.55	7.49	1.21	7.34	1.36	-0.95
2	58	143	2.45	-46.83	-45.97	1.59	6.45	7.44	1.23	7.42	1.25	-0.37
2	58	147	0.92	-46.29	-46.01	0.64	3.60	7.41	0.86	7.40	0.87	-0.26
2	58	150	-0.18	-47.11	-47.01	-0.28	2.19	7.61	0.53	7.61	0.53	-0.13
2	58	152	5.30	-71.28	-54.84	-11.14	31.45	20.46	-2.53	7.85	10.08	-11.44
2	58	157	-16.58	-101.04	-38.97	-78.65	37.28	24.54	-2.44	-2.41	24.50	-0.92
2	58	161	-22.27	-47.01	-44.12	-25.16	7.95	14.04	4.12	13.96	4.20	0.88
2	58	165	-3.02	-63.82	-4.29	-62.56	8.69	-5.37	-39.63	-8.26	-36.73	9.53
2	58	166	-33.23	-49.50	-49.31	-33.42	-1.78	0.57	-2.78	0.57	-2.77	0.10
2	58	167	-10.60	-48.53	-45.13	-14.00	10.84	0.99	-13.39	-13.27	0.87	1.32
2	58	168	-10.44	-47.51	-14.28	-43.67	11.30	-9.68	-19.50	-9.88	-19.30	-1.37
2	58	169	-27.43	-46.43	-40.26	-33.61	-8.90	2.31	-3.36	1.15	-2.20	-2.29
2	58	173	1.85	-54.43	1.29	-53.87	5.58	5.83	-0.41	-0.13	5.56	-1.27
2	58	174	-7.11	-44.06	-42.64	-8.53	7.10	14.23	5.88	14.16	5.95	0.76
2	58	175	-6.68	-53.77	-48.26	-12.19	15.14	2.73	-5.91	-4.02	0.84	-3.57
2	58	179	-22.35	-39.45	-32.58	-29.23	8.39	4.47	-7.02	-5.40	2.85	4.00
2	58	183	-9.20	-55.95	-47.43	-17.72	18.05	3.69	-9.05	-7.16	1.79	-4.53
2	58	184	-14.42	-49.97	-45.49	-18.91	11.80	2.75	-15.88	-15.82	2.70	0.99
2	58	185	-13.92	-65.86	-50.09	-29.69	23.89	10.18	-12.14	-9.74	7.78	-6.91
2	58	186	-17.94	-48.93	-42.12	-24.76	12.84	3.19	-23.91	-23.76	3.04	2.01
2	58	187	-10.07	-65.08	-36.67	-38.48	27.49	4.33	-21.34	-20.72	3.71	3.94
2	58	188	-20.08	-49.72	-37.65	-32.15	14.56	-3.66	-31.16	-31.05	-3.77	1.74
2	58	189	-8.08	-108.73	-13.89	-102.91	23.48	4.49	-27.16	-13.19	-9.48	15.72
2	58	190	-7.73	-59.30	-18.14	-48.90	20.69	-3.42	-29.17	-18.77	-13.82	12.63
2	58	191	-5.63	-58.92	-8.01	-56.54	11.02	-8.76	-28.07	-10.83	-26.01	5.97
2	58	192	-18.47	-49.15	-29.02	-38.60	14.57	-13.43	-19.35	-19.35	-13.44	3.53e-02
2	58	193	1.16	-47.40	0.62	-46.85	5.12	-3.56	-16.66	-4.04	-16.18	2.46
2	58	194	-0.35	-55.27	-1.14	-54.48	6.51	-4.50	-11.03	-4.56	-10.96	0.66
2	58	195	-1.96	-48.55	-3.24	-47.27	7.63	-0.78	-9.28	-3.33	-6.73	-3.89
2	58	196	-12.90	-43.10	-42.38	-13.62	4.61	4.88	-3.11e-02	1.73	3.12	2.35
2	58	197	-14.82	-46.35	-15.38	-45.80	-4.14	1.36	-0.94	2.29e-02	0.40	1.13
2	58	198	-14.73	-45.35	-43.66	-16.41	6.98	5.28	-2.45	-3.19e-02	2.86	3.58



2	58	199	-14.84	-49.32	-19.15	-45.02	-11.39	3.13	-1.60	-1.33	2.86	-1.10
2	58	200	-21.85	-44.90	-42.25	-24.50	7.35	10.05	-5.39	-1.22	5.89	6.85
2	58	201	-24.60	-41.74	-36.27	-30.07	7.99	4.04	-1.20	-1.11	3.95	-0.68
2	58	202	-15.76	-43.65	-18.29	-41.12	8.02	8.30e-02	-19.57	-1.18	-18.30	-4.82
2	58	203	-12.88	-41.25	-21.77	-32.37	-13.16	4.97	-1.52	1.28	2.17	-3.21
2	58	204	-12.84	-47.07	-43.51	-16.40	10.45	9.54	3.30	9.50	3.35	-0.54
2	58	205	-21.68	-40.69	-22.75	-39.62	4.39	4.97	-13.24	3.74	-12.01	4.58
2	58	206	-36.42	-52.91	-40.25	-49.08	6.97	4.53	-7.13	-7.11	4.50	0.55
2	58	207	-16.30	-34.27	-29.93	-20.64	7.69	3.99	-2.60	-1.20	2.60	2.69
2	58	208	-30.41	-48.53	-40.71	-38.23	8.97	-1.18	-10.82	-10.55	-1.45	1.60
2	58	209	-27.39	-48.35	-44.54	-31.20	8.09	14.27	-0.61	14.15	-0.49	1.29
2	58	210	-16.51	-48.24	-45.21	-19.55	9.33	9.33	2.41	8.88	2.87	-1.71
2	58	211	-21.41	-45.60	-44.39	-22.62	5.28	3.20	-4.84	-4.39	2.75	-1.84
2	58	212	-22.23	-46.75	-42.67	-26.31	9.13	12.72	4.08	10.41	6.39	-3.82
2	58	213	-33.49	-41.71	-41.71	-33.50	-0.12	-5.56	-11.54	-10.23	-6.87	2.47
2	58	214	-24.08	-44.27	-38.02	-30.32	9.33	12.68	2.14	9.17	5.65	4.97
2	58	215	-23.00	-41.34	-29.04	-35.31	8.62	2.20	-13.44	-1.67	-9.56	-6.75
2	58	216	-29.71	-45.57	-43.08	-32.20	5.78	6.64	0.25	6.31	0.58	1.42
2	58	217	-48.05	-56.43	-55.13	-49.34	3.03	9.73	0.45	9.64	0.54	0.92
2	58	218	-52.82	-56.75	-55.24	-54.33	-1.91	10.27	0.56	10.27	0.56	0.14
2	58	219	-37.75	-53.76	-46.29	-45.22	-7.99	8.59	0.47	8.54	0.52	-0.63
2	58	220	-13.74	-26.21	-25.92	-14.04	1.90	3.81	0.18	3.04	0.96	1.49
2	58	240	-5.52	-50.83	-46.89	-9.45	12.76	3.94	-3.17	-1.90	2.66	-2.73
2	58	241	-4.15	-48.41	-45.75	-6.81	10.51	3.40	-0.68	0.14	2.58	-1.63
2	58	242	-2.64	-46.87	-45.36	-4.14	8.03	2.17	0.60	1.07	1.70	-0.72
2	58	243	-1.39	-45.66	-44.93	-2.12	5.62	1.52	0.76	1.37	0.90	-0.30
2	58	244	-0.54	-44.90	-44.67	-0.77	3.17	1.46	0.34	1.43	0.37	-0.16
2	58	245	-0.13	-44.56	-44.48	-0.21	1.88	1.53	0.17	1.52	0.17	4.62e-02
2	58	246	-8.28	-46.20	-43.96	-10.52	8.93	1.91	-10.23	-10.12	1.81	1.12
2	58	247	-6.17	-44.56	-43.31	-7.43	6.84	2.30	-7.00	-6.94	2.24	0.78
2	58	248	-3.77	-43.72	-43.03	-4.47	5.23	1.21	-5.53	-5.51	1.19	0.32
2	58	249	-1.88	-43.21	-42.83	-2.25	3.91	0.16	-5.08	-5.08	0.16	5.83e-02
2	58	250	-0.73	-42.36	-42.23	-0.86	2.27	-0.17	-4.95	-4.95	-0.17	-4.71e-02
2	58	251	-0.18	-40.44	-40.40	-0.22	1.30	-0.13	-5.03	-5.03	-0.13	-8.96e-02
2	58	252	-10.66	-43.17	-42.61	-11.22	4.23	4.66	-2.36	-0.42	2.72	3.14
2	58	253	-6.14	-42.76	-42.41	-6.49	3.57	3.22	-1.34	-0.33	2.22	1.89
2	58	254	-3.08	-42.39	-42.16	-3.32	3.05	1.50	-0.69	-0.38	1.19	0.77
2	58	255	-1.30	-42.02	-41.87	-1.45	2.44	0.52	-0.49	-0.45	0.48	0.20
2	58	256	-0.38	-40.82	-40.76	-0.44	1.53	0.12	-0.52	-0.52	0.12	-2.99e-02
2	58	257	0.10	-37.89	-37.86	7.59e-02	0.97	0.13	-0.74	-0.61	8.62e-03	-0.30
2	58	258	-13.30	-42.92	-41.69	-14.54	5.93	7.96	2.43	7.49	2.90	-1.54
2	58	259	-9.10	-43.22	-43.18	-9.14	1.17	7.52	1.97	7.27	2.22	-1.15
2	58	260	-4.44	-45.84	-45.76	-4.52	-1.80	6.99	1.26	6.89	1.36	-0.73
2	58	261	-1.52	-46.80	-46.63	-1.69	-2.77	6.67	0.86	6.62	0.91	-0.52
2	58	262	-0.32	-46.64	-46.52	-0.44	-2.35	6.50	0.41	6.46	0.45	-0.48
2	58	263	0.18	-44.22	-44.15	0.11	-1.76	6.48	0.16	6.45	0.19	-0.44
2	58	264	-18.22	-34.45	-34.09	-18.57	-2.38	1.76	-0.75	-0.75	1.75	6.57e-02
2	58	265	-9.81	-42.42	-41.48	-10.76	-5.47	2.41	1.52	2.28	1.66	-0.32
2	58	266	-3.85	-46.45	-45.85	-4.45	-5.02	3.81	1.13	3.76	1.19	-0.40
2	58	267	-1.66	-47.31	-46.96	-2.01	-3.96	4.45	0.71	4.41	0.75	-0.38
2	58	268	-0.68	-47.34	-47.14	-0.87	-3.00	4.87	0.35	4.85	0.37	-0.26
2	58	269	-0.44	-49.82	-49.70	-0.56	-2.44	5.37	0.22	5.37	0.22	-0.17
2	62	4	-6.77	-56.06	-50.57	-12.26	15.51	9.21	-0.14	7.16	1.90	-3.86
2	62	17	-26.48	-41.83	-36.41	-31.90	7.34	22.38	14.09	22.11	14.36	1.47
2	62	18	-17.93	-44.42	-42.43	-19.92	6.98	17.25	7.43	17.11	7.57	1.16
2	62	19	-26.98	-48.65	-29.45	-46.18	6.88	11.71	-4.80	11.63	-4.72	1.14
2	62	20	-19.81	-43.30	-20.99	-42.11	5.14	3.55	-15.89	3.55	-15.89	-0.20
2	62	21	-26.62	-40.22	-31.53	-35.30	6.53	11.40	-9.33	5.94	-3.88	9.13
2	62	22	-7.54	-44.28	-8.08	-43.75	4.39	1.90	-6.67	0.18	-4.95	-3.44
2	62	23	-11.13	-42.89	-11.32	-42.70	2.45	2.27	-4.35	1.82	-3.90	-1.66
2	62	24	-14.80	-44.22	-14.80	-44.22	-0.20	1.72	-1.91	1.46	-1.65	0.93
2	62	30	-1.47	-8.93	-5.79	-4.61	-3.68	2.39	1.11	2.31	1.19	0.32
2	62	31	-13.36	-25.54	-24.01	-14.89	4.04	5.29	-0.90	-0.72	5.11	1.05
2	62	34	-38.57	-58.01	-44.68	-51.89	9.03	7.12	-4.95	-4.54	6.72	2.17
2	62	40	4.79	-16.29	-2.38	-9.11	-9.99	2.19	-0.26	0.89	1.03	1.22
2	62	41	-2.65	-36.58	-9.35	-29.89	-13.50	5.55	0.85	0.95	5.45	-0.69
2	62	44	-12.42	-53.88	-17.09	-49.20	-13.12	9.69	0.95	0.96	9.68	-0.29
2	62	45	-27.34	-42.76	-40.18	-29.92	5.75	1.83	-7.00	-6.89	1.72	-0.97
2	62	46	-29.91	-42.16	-39.42	-32.64	5.10	-0.83	-11.97	-10.82	-1.97	3.38
2	62	48	-26.96	-40.60	-27.09	-40.48	-1.29	0.24	-9.90	-2.46	-7.21	4.48
2	62	49	-24.03	-44.27	-40.79	-27.51	7.63	2.20	-3.86	-0.86	-0.80	3.03
2	62	50	-27.43	-43.44	-32.80	-38.07	-7.56	-4.53	-5.86	-5.45	-4.94	0.62
2	62	51	-31.18	-45.88	-44.06	-33.00	4.85	-3.39	-11.78	-10.84	-4.33	2.64
2	62	52	-30.74	-50.69	-50.07	-31.36	3.47	1.34	-3.07	0.13	-1.86	1.97
2	62	53	-23.07	-41.56	-39.89	-24.74	5.29	2.24	-4.16	-4.10	2.18	0.63

2	62	54	-33.50	-38.04	-36.00	-35.55	2.26	0.10	-12.13	-6.16	-5.87	6.11
2	62	55	-11.14	-33.33	-22.15	-22.32	-11.10	4.09	0.81	4.05	0.86	-0.38
2	62	59	-12.66	-50.48	-13.81	-49.34	-6.49	8.56	1.03	1.04	8.56	-9.79e-02
2	62	63	-4.58	-45.31	-4.70	-45.20	-2.16	6.76	1.18	1.25	6.69	-0.63
2	62	66	2.75	-42.50	2.73	-42.48	0.84	5.78	0.32	1.26	4.84	-2.06
2	62	70	5.58	-44.07	5.38	-43.87	3.12	6.90	-0.70	1.02	5.18	-3.18
2	62	74	3.52	-46.53	3.21	-46.22	3.94	6.54	-0.86	0.38	5.30	-2.77
2	62	78	0.31	-55.45	-48.04	-7.10	18.93	7.78	-3.37	6.47	-2.06	-3.59
2	62	81	1.44	-40.36	1.25	-40.17	2.79	0.82	-0.71	-0.56	0.68	0.45
2	62	85	-9.11	-33.21	-30.28	-12.04	-7.87	3.52	-3.62	-0.83	0.73	3.48
2	62	89	-0.93	-44.34	-42.01	-3.26	-9.80	4.13	-0.38	3.23	0.52	1.80
2	62	93	0.46	-48.01	-46.97	-0.58	-7.01	5.65	0.76	5.54	0.87	0.72
2	62	97	0.46	-48.35	-47.90	1.52e-02	-4.66	6.74	0.94	6.73	0.95	0.23
2	62	101	-0.19	-48.40	-48.15	-0.44	-3.43	7.53	0.78	7.53	0.79	0.23
2	62	104	-1.36	-54.10	-53.93	-1.53	-3.02	8.30	0.58	8.29	0.59	0.28
2	62	108	-2.73	-43.89	-43.49	-3.13	4.05	10.55	3.66	10.55	3.66	0.16
2	62	112	-0.90	-44.05	-43.97	-0.98	1.87	8.50	1.72	8.50	1.72	5.12e-02
2	62	116	-0.58	-44.71	-44.71	-0.59	0.11	7.46	1.18	7.45	1.18	-0.11
2	62	120	-0.47	-45.08	-45.07	-0.49	-0.74	7.01	0.97	7.00	0.98	-0.21
2	62	124	-0.38	-44.42	-44.40	-0.39	-0.74	6.73	0.63	6.72	0.64	-0.29
2	62	127	-7.72e-02	-41.67	-41.66	-8.43e-02	-0.54	6.57	0.34	6.55	0.36	-0.40
2	62	131	-5.20	-52.82	-48.95	-9.08	13.01	8.52	0.11	7.44	1.19	-2.81
2	62	135	-1.98	-50.33	-47.78	-4.53	10.81	7.93	1.08	7.56	1.45	-1.55
2	62	139	0.60	-48.58	-47.20	-0.78	8.13	7.58	1.22	7.51	1.28	-0.66
2	62	143	1.32	-47.12	-46.49	0.69	5.49	7.40	1.18	7.39	1.19	-0.24
2	62	147	0.41	-46.41	-46.20	0.21	3.09	7.19	0.82	7.18	0.83	-0.21
2	62	150	-0.34	-46.49	-46.41	-0.42	1.92	7.26	0.50	7.26	0.50	-0.12
2	62	152	1.12	-68.85	-54.39	-13.34	28.33	19.05	-0.96	9.06	9.03	-10.01
2	62	157	-17.89	-93.66	-39.19	-72.37	34.06	22.75	0.13	0.31	22.57	-1.99
2	62	161	-23.06	-46.62	-44.42	-25.26	6.85	12.34	4.49	12.33	4.50	0.21
2	62	165	-3.01	-56.64	-4.02	-55.63	7.28	-3.85	-31.58	-6.63	-28.80	8.33
2	62	166	-31.98	-49.84	-49.33	-32.50	-3.00	1.10	-2.27	1.09	-2.26	0.15
2	62	167	-11.75	-47.97	-45.55	-14.17	9.05	1.01	-10.99	-10.95	0.98	0.64
2	62	168	-11.43	-45.69	-14.37	-42.76	9.59	-8.01	-15.45	-8.07	-15.40	-0.61
2	62	169	-25.98	-47.18	-40.44	-32.73	-9.88	2.38	-2.61	1.48	-1.71	-1.92
2	62	173	0.66	-50.19	0.44	-49.97	3.33	4.10	-0.20	-0.14	4.04	-0.51
2	62	174	-8.40	-44.06	-43.03	-9.44	5.98	12.49	5.77	12.48	5.78	0.19
2	62	175	-8.22	-52.90	-48.52	-12.60	13.29	2.73	-3.85	-2.10	0.98	-2.91
2	62	179	-23.99	-39.43	-33.63	-29.79	7.48	4.43	-6.31	-4.58	2.70	3.95
2	62	183	-10.73	-54.53	-47.56	-17.70	16.02	3.96	-6.13	-4.33	2.15	-3.87
2	62	184	-15.47	-49.01	-45.64	-18.84	10.09	2.99	-12.58	-12.58	2.99	0.35
2	62	185	-15.05	-63.15	-49.80	-28.40	21.54	10.15	-8.58	-6.20	7.77	-6.24
2	62	186	-18.91	-47.83	-42.23	-24.51	11.43	3.80	-19.03	-18.95	3.71	1.40
2	62	187	-11.37	-61.85	-36.68	-36.54	25.24	5.30	-16.21	-15.82	4.92	2.84
2	62	188	-20.74	-47.99	-37.06	-31.68	13.36	-1.75	-25.86	-25.77	-1.84	1.43
2	62	189	-7.10	-97.07	-12.56	-91.61	21.48	4.82	-20.74	-10.62	-5.30	12.50
2	62	190	-7.98	-55.55	-17.36	-46.18	18.92	-1.60	-23.40	-15.21	-9.79	10.56
2	62	191	-6.12	-54.97	-7.99	-53.10	9.36	-6.68	-22.60	-8.78	-20.50	5.39
2	62	192	-18.98	-47.11	-28.14	-37.96	13.18	-9.99	-15.94	-15.94	-9.99	0.21
2	62	193	0.25	-44.07	-1.72e-03	-43.82	3.33	-2.62	-14.00	-3.31	-13.32	2.71
2	62	194	-1.60	-51.28	-2.02	-50.86	4.55	-3.45	-9.30	-3.73	-9.02	1.25
2	62	195	-4.02	-46.89	-4.74	-46.17	5.51	-1.31	-6.96	-2.74	-5.53	-2.46
2	62	196	-13.60	-43.13	-42.79	-13.93	3.13	3.88	0.77	1.55	3.10	1.35
2	62	197	-16.84	-47.25	-17.62	-46.47	-4.83	1.91	-1.00	-9.90e-02	1.01	1.34
2	62	198	-15.65	-44.90	-43.83	-16.72	5.48	4.12	-1.12	0.16	2.84	2.25
2	62	199	-15.92	-49.79	-20.71	-45.00	-11.80	3.26	-1.28	-1.14	3.12	-0.79
2	62	200	-22.85	-43.87	-42.00	-24.72	5.99	8.90	-4.10	-0.86	5.66	5.62
2	62	201	-25.61	-40.19	-35.50	-30.30	6.81	4.55	-0.93	-0.90	4.52	-0.41
2	62	202	-16.80	-43.04	-18.58	-41.26	6.59	-0.20	-15.74	-1.02	-14.91	-3.48
2	62	203	-12.66	-41.01	-22.24	-31.43	-13.41	4.48	-0.87	1.38	2.24	-2.64
2	62	204	-13.83	-46.93	-43.88	-16.88	9.57	8.20	3.21	8.11	3.29	-0.64
2	62	205	-22.92	-41.46	-23.52	-40.85	3.30	4.22	-11.63	2.77	-10.19	4.56
2	62	206	-36.99	-51.53	-39.88	-48.64	5.80	4.34	-6.32	-6.28	4.30	0.64
2	62	207	-16.41	-32.56	-29.42	-19.56	6.39	3.81	-2.12	-0.83	2.51	2.45
2	62	208	-31.25	-47.12	-40.36	-38.01	7.85	-0.99	-9.72	-9.46	-1.25	1.50
2	62	209	-27.60	-47.41	-44.54	-30.47	6.97	12.01	-0.43	11.97	-0.39	0.66
2	62	210	-17.64	-47.76	-45.14	-20.26	8.49	7.63	2.07	7.24	2.46	-1.42
2	62	211	-22.34	-45.02	-44.18	-23.18	4.28	2.86	-4.57	-4.20	2.49	-1.62
2	62	212	-23.42	-46.01	-42.32	-27.12	8.36	10.89	3.12	8.54	5.46	-3.57
2	62	213	-33.38	-41.96	-41.77	-33.57	-1.27	-4.84	-10.42	-9.29	-5.97	2.24
2	62	214	-25.39	-43.61	-37.70	-31.30	8.53	10.60	1.89	7.33	5.16	4.22
2	62	215	-23.79	-40.31	-28.47	-35.63	7.45	2.13	-10.36	-1.32	-6.92	-5.58
2	62	216	-28.98	-44.15	-42.66	-30.46	4.51	6.57	0.46	6.37	0.66	1.09
2	62	217	-47.00	-55.34	-54.95	-47.39	1.77	9.73	0.55	9.66	0.62	0.79
2	62	218	-50.29	-57.21	-55.17	-52.33	-3.16	10.21	0.62	10.20	0.62	0.27

2	62	219	-35.57	-53.79	-46.16	-43.20	-8.99	8.42	0.59	8.41	0.59	-0.22
2	62	220	-12.82	-25.37	-25.34	-12.85	0.63	3.51	0.49	3.01	0.98	1.11
2	62	240	-6.84	-50.49	-47.52	-9.81	10.99	3.43	-1.81	-0.63	2.25	-2.19
2	62	241	-5.25	-48.47	-46.59	-7.14	8.83	2.90	-6.16e-02	0.76	2.08	-1.32
2	62	242	-3.48	-47.17	-46.16	-4.49	6.58	1.96	0.70	1.31	1.35	-0.62
2	62	243	-1.92	-46.11	-45.64	-2.39	4.53	1.52	0.58	1.39	0.71	-0.33
2	62	244	-0.76	-45.29	-45.14	-0.91	2.56	1.36	0.22	1.31	0.27	-0.24
2	62	245	-0.17	-44.40	-44.34	-0.23	1.52	1.31	0.11	1.31	0.12	-3.76e-02
2	62	246	-9.31	-46.11	-44.64	-10.78	7.22	1.51	-8.62	-8.58	1.47	0.58
2	62	247	-6.99	-45.02	-44.29	-7.72	5.22	1.70	-6.25	-6.23	1.68	0.40
2	62	248	-4.38	-44.48	-44.13	-4.73	3.75	0.77	-5.25	-5.25	0.77	4.91e-02
2	62	249	-2.27	-44.11	-43.94	-2.44	2.66	-5.05e-02	-5.00	-5.00	-5.51e-02	-0.15
2	62	250	-0.90	-43.37	-43.32	-0.96	1.49	-0.24	-4.95	-4.94	-0.25	-0.21
2	62	251	-0.23	-41.25	-41.24	-0.25	0.82	-0.15	-5.05	-5.04	-0.16	-0.23
2	62	252	-11.32	-43.47	-43.26	-11.53	2.62	3.62	-1.48	-0.30	2.44	2.15
2	62	253	-6.79	-43.53	-43.43	-6.89	1.94	2.34	-0.82	-0.27	1.79	1.20
2	62	254	-3.66	-43.45	-43.40	-3.71	1.48	0.98	-0.43	-0.34	0.88	0.35
2	62	255	-1.73	-43.28	-43.26	-1.76	1.07	0.36	-0.38	-0.37	0.35	-6.58e-02
2	62	256	-0.60	-42.44	-42.43	-0.61	0.61	0.16	-0.47	-0.40	8.52e-02	-0.20
2	62	257	-2.09e-02	-39.92	-39.91	-2.42e-02	0.37	0.27	-0.72	-0.46	9.39e-04	-0.44
2	62	258	-13.98	-43.20	-42.24	-14.94	5.23	7.10	2.20	6.48	2.82	-1.62
2	62	259	-9.63	-43.68	-43.66	-9.65	0.79	6.76	1.76	6.44	2.08	-1.24
2	62	260	-4.93	-46.28	-46.19	-5.02	-1.92	6.32	1.14	6.19	1.28	-0.83
2	62	261	-1.94	-47.32	-47.16	-2.10	-2.72	6.07	0.79	5.99	0.87	-0.62
2	62	262	-0.57	-47.32	-47.22	-0.68	-2.18	5.92	0.37	5.86	0.43	-0.58
2	62	263	-2.28e-02	-45.50	-45.45	-7.52e-02	-1.54	5.90	0.14	5.85	0.19	-0.54
2	62	264	-18.40	-35.46	-34.96	-18.90	-2.88	1.72	-0.60	-0.59	1.72	7.04e-02
2	62	265	-10.19	-43.22	-42.16	-11.25	-5.84	2.56	1.50	2.43	1.63	-0.34
2	62	266	-4.31	-47.12	-46.45	-4.97	-5.29	4.02	1.14	3.95	1.20	-0.43
2	62	267	-2.01	-47.96	-47.59	-2.38	-4.11	4.71	0.76	4.67	0.80	-0.43
2	62	268	-0.86	-48.23	-48.04	-1.05	-3.02	5.19	0.40	5.17	0.42	-0.33
2	62	269	-0.51	-50.69	-50.57	-0.63	-2.40	5.74	0.24	5.73	0.26	-0.26
2	65	4	-9.43	-53.18	-50.79	-11.82	9.94	9.98	1.84	9.94	1.88	-0.56
2	65	17	-31.27	-40.52	-34.69	-37.10	4.46	11.74	10.29	11.19	10.83	0.70
2	65	18	-20.72	-42.12	-41.41	-21.44	3.85	6.85	3.09	6.85	3.09	-0.11
2	65	19	-27.90	-50.78	-28.56	-50.11	3.85	5.97	0.20	5.40	0.76	1.71
2	65	20	-22.68	-45.60	-22.77	-45.51	1.42	1.28	-7.94	0.63	-7.30	2.36
2	65	21	-29.72	-40.53	-31.18	-39.08	3.69	6.65	-6.44	1.09	-0.89	6.47
2	65	22	-13.46	-43.39	-13.53	-43.32	-1.46	0.60	-2.60	-0.26	-1.75	1.41
2	65	23	-18.21	-45.36	-18.39	-45.18	-2.20	1.63	-2.19	0.24	-0.80	1.84
2	65	24	-21.86	-47.48	-22.34	-47.00	-3.47	3.04	-1.91	0.13	1.00	2.44
2	65	30	4.77	-10.16	-3.31	-2.08	-7.44	2.22	0.35	2.03	1.14	-0.45
2	65	31	-11.43	-21.02	-21.02	-11.43	1.38e-02	3.98	-0.20	-0.12	3.90	0.59
2	65	34	-42.07	-54.10	-45.34	-50.82	5.36	6.31	-2.95	-2.33	5.70	2.30
2	65	40	5.46	-12.73	-2.18	-5.09	-8.98	3.47	-1.53	0.95	0.99	2.50
2	65	41	-4.96	-34.30	-12.34	-26.92	-12.73	4.75	0.74	0.94	4.55	0.88
2	65	44	-20.46	-55.19	-26.41	-49.25	-13.08	8.90	0.76	0.86	8.80	0.89
2	65	45	-30.80	-40.03	-39.12	-31.71	2.75	1.10	-5.40	-5.30	1.00	-0.79
2	65	46	-33.87	-39.66	-38.75	-34.77	2.10	-0.75	-9.41	-8.98	-1.18	1.88
2	65	48	-28.19	-44.41	-29.43	-43.16	-4.32	0.67	-6.83	-2.89	-3.28	3.74
2	65	49	-23.51	-40.67	-39.73	-24.45	3.91	2.71	-1.67	0.96	8.36e-02	2.14
2	65	50	-25.78	-47.09	-34.52	-38.34	-10.48	-1.92	-4.07	-3.78	-2.21	0.74
2	65	51	-32.69	-43.62	-43.44	-32.87	1.39	-1.95	-7.92	-7.34	-2.54	1.78
2	65	52	-28.49	-49.60	-49.60	-28.49	-0.25	2.69	-1.19	2.08	-0.58	1.41
2	65	53	-25.31	-42.45	-42.05	-25.72	2.61	2.01	-3.27	-3.13	1.87	0.85
2	65	54	-35.78	-38.41	-36.09	-38.10	-0.84	-4.75e-02	-8.82	-5.89	-2.98	4.14
2	65	55	-7.46	-31.39	-21.62	-17.23	-11.76	4.25	0.43	3.75	0.93	1.29
2	65	59	-26.08	-53.74	-28.46	-51.36	-7.76	8.45	0.65	0.77	8.33	0.95
2	65	63	-21.02	-49.03	-22.05	-47.99	-5.28	6.83	0.64	0.79	6.68	0.97
2	65	66	-13.45	-45.68	-14.05	-45.08	-4.37	4.36	0.42	0.60	4.18	0.82
2	65	70	-7.57	-43.85	-7.97	-43.44	-3.81	2.81	0.13	0.37	2.57	0.75
2	65	74	-4.27	-43.57	-4.54	-43.30	-3.21	2.10	-0.44	9.77e-02	1.57	1.04
2	65	78	-8.04	-52.52	-48.65	-11.90	12.53	10.33	-0.22	10.26	-0.16	-0.80
2	65	81	-1.02	-38.12	-1.45	-37.70	-3.96	0.88	-4.16	-0.35	-2.94	2.16
2	65	85	-11.73	-37.20	-33.45	-15.48	-9.02	4.20	-2.35	1.19	0.66	3.26
2	65	89	-3.39	-47.10	-44.23	-6.26	-10.82	5.74	7.89e-02	5.16	0.67	1.73
2	65	93	-1.04	-50.34	-49.01	-2.38	-8.00	7.63	0.99	7.55	1.07	0.71
2	65	97	-0.25	-50.54	-49.95	-0.84	-5.42	8.90	1.23	8.90	1.24	0.21
2	65	101	-0.54	-51.38	-51.09	-0.82	-3.79	9.91	1.04	9.91	1.05	0.18
2	65	104	-1.46	-56.51	-56.33	-1.63	-3.11	10.87	0.78	10.86	0.78	0.19
2	65	108	-6.85	-45.13	-45.12	-6.86	0.59	7.05	2.47	6.65	2.87	-1.29
2	65	112	-4.33	-46.14	-46.10	-4.37	-1.20	6.10	0.91	5.87	1.14	-1.05
2	65	116	-2.54	-47.33	-47.20	-2.67	-2.39	5.74	0.68	5.60	0.82	-0.84
2	65	120	-1.01	-48.15	-47.99	-1.17	-2.68	5.62	0.70	5.53	0.80	-0.68
2	65	124	-0.27	-48.24	-48.16	-0.34	-1.84	5.52	0.51	5.44	0.59	-0.61

2	65	127	-0.15	-48.25	-48.23	-0.18	-1.07	5.42	0.27	5.34	0.35	-0.63
2	65	131	-8.79	-52.20	-50.84	-10.16	7.59	9.53	1.14	9.53	1.14	-8.58e-02
2	65	135	-6.96	-50.92	-50.20	-7.68	5.57	8.78	1.16	8.77	1.16	0.15
2	65	139	-4.07	-49.52	-49.19	-4.40	3.86	8.04	1.06	8.03	1.07	0.19
2	65	143	-1.86	-48.18	-48.04	-2.00	2.58	7.29	1.00	7.29	1.00	0.13
2	65	147	-1.05	-46.83	-46.78	-1.11	1.57	6.52	0.69	6.52	0.70	-8.61e-02
2	65	150	-0.81	-44.65	-44.62	-0.84	1.09	6.21	0.40	6.20	0.40	-8.37e-02
2	65	152	-11.30	-61.69	-53.05	-19.94	18.99	15.94	2.65	12.70	5.89	-5.71
2	65	157	-21.35	-72.03	-39.85	-53.53	24.40	19.28	5.94	8.45	16.78	-5.21
2	65	161	-24.94	-45.94	-45.32	-25.56	3.56	8.50	4.34	7.46	5.39	-1.81
2	65	165	-2.94	-35.15	-3.24	-34.85	3.08	1.61	-8.36	-1.73	-5.02	4.71
2	65	166	-27.68	-51.44	-49.38	-29.73	-6.67	2.69	-0.74	2.66	-0.72	0.30
2	65	167	-14.26	-47.25	-46.83	-14.68	3.68	1.66	-4.36	-4.01	1.30	-1.42
2	65	168	-13.88	-40.79	-14.63	-40.03	4.45	-1.42	-4.92	-2.64	-3.70	1.67
2	65	169	-21.61	-49.45	-40.97	-30.09	-12.81	2.71	-0.47	2.48	-0.24	-0.82
2	65	173	-1.80	-38.57	-2.12	-38.26	-3.39	1.44	-2.10	-0.15	-0.51	1.77
2	65	174	-11.93	-44.42	-44.21	-12.15	2.63	8.23	4.50	7.46	5.26	-1.50
2	65	175	-12.21	-50.90	-49.29	-13.82	7.72	3.98	1.04	3.65	1.37	-0.93
2	65	179	-28.70	-39.58	-36.79	-31.48	4.75	4.46	-4.32	-2.13	2.26	3.80
2	65	183	-14.68	-50.93	-47.95	-17.66	9.96	5.62	1.77	4.16	3.23	-1.87
2	65	184	-17.77	-46.94	-46.08	-18.63	4.94	4.21	-3.18	-2.83	3.86	-1.57
2	65	185	-17.80	-55.67	-48.94	-24.54	14.48	10.64	1.54	4.43	7.74	-4.24
2	65	186	-21.31	-45.00	-42.56	-23.76	7.20	5.74	-4.53	-4.52	5.72	-0.44
2	65	187	-14.97	-52.45	-36.71	-30.70	18.50	8.56	-1.16	-1.14	8.54	-0.47
2	65	188	-22.71	-42.83	-35.27	-30.26	9.74	3.96	-9.95	-9.94	3.95	0.49
2	65	189	-4.10	-62.17	-8.58	-57.70	15.48	7.99	-3.65	-2.90	7.24	2.85
2	65	190	-8.70	-44.33	-15.03	-38.00	13.62	4.41	-6.62	-4.52	2.30	4.33
2	65	191	-7.37	-43.33	-7.92	-42.78	4.40	0.41	-7.03	-2.65	-3.97	3.66
2	65	192	-20.34	-41.20	-25.50	-36.03	9.00	0.42	-5.76	-5.68	0.34	0.72
2	65	193	-1.72	-34.83	-1.85	-34.70	-2.07	0.99	-6.84	-1.13	-4.72	3.48
2	65	194	-4.61	-40.03	-4.66	-39.98	-1.33	0.96	-5.39	-1.24	-3.20	3.02
2	65	195	-9.19	-42.90	-9.21	-42.88	-0.84	0.45	-3.35	-1.00	-1.91	1.84
2	65	196	-14.82	-44.10	-44.04	-14.88	-1.33	3.98	7.03e-02	1.01	3.03	-1.67
2	65	197	-22.52	-50.31	-24.36	-48.47	-6.91	3.77	-1.40	-0.46	2.84	1.99
2	65	198	-17.59	-44.37	-44.33	-17.63	1.00	3.81	-0.29	0.73	2.79	-1.77
2	65	199	-18.89	-51.46	-25.38	-44.97	-13.01	3.91	-0.60	-0.59	3.91	0.15
2	65	200	-25.16	-41.49	-41.26	-25.38	1.90	5.65	-0.45	0.24	4.97	1.92
2	65	201	-28.61	-35.53	-33.17	-30.97	3.28	6.24	-0.27	-0.24	6.21	0.40
2	65	202	-19.19	-41.93	-19.43	-41.69	2.32	-0.47	-4.82	-0.54	-4.75	0.55
2	65	203	-11.75	-40.53	-23.67	-28.61	-14.18	3.05	1.07	1.69	2.43	-0.92
2	65	204	-16.61	-46.69	-44.99	-18.31	6.94	4.58	2.50	3.95	3.12	-0.95
2	65	205	-25.83	-44.57	-25.83	-44.57	3.25e-02	2.63	-7.46	-0.12	-4.71	4.49
2	65	206	-38.19	-47.91	-38.76	-47.34	2.28	3.79	-3.92	-3.81	3.68	0.91
2	65	207	-15.79	-28.40	-27.88	-16.30	2.49	3.25	-0.72	0.28	2.25	1.73
2	65	208	-33.75	-42.91	-39.32	-37.34	4.47	-0.40	-6.43	-6.18	-0.65	1.20
2	65	209	-27.48	-45.30	-44.53	-28.25	3.61	5.67	-0.35	5.42	-9.74e-02	-1.21
2	65	210	-20.92	-46.42	-44.95	-22.39	5.95	2.54	1.02	2.31	1.25	-0.54
2	65	211	-24.76	-43.65	-43.56	-24.85	1.29	1.86	-3.77	-3.61	1.70	-0.94
2	65	212	-26.98	-43.82	-41.27	-29.53	6.04	5.64	-2.14e-02	2.92	2.69	-2.83
2	65	213	-31.63	-44.11	-41.95	-33.79	-4.72	-2.66	-7.10	-6.46	-3.29	1.55
2	65	214	-29.24	-41.74	-36.73	-34.24	6.12	4.92	0.57	1.81	3.68	1.96
2	65	215	-25.39	-37.97	-26.77	-36.59	3.94	2.54	-1.77	-0.25	1.02	-2.06
2	65	216	-25.22	-41.45	-41.42	-25.25	0.72	6.54	0.90	6.54	0.90	8.73e-02
2	65	217	-41.23	-54.69	-54.39	-41.53	-2.00	9.72	0.84	9.70	0.85	0.40
2	65	218	-42.51	-58.78	-54.97	-46.33	-6.89	10.06	0.77	10.01	0.82	0.66
2	65	219	-28.71	-54.19	-45.78	-37.12	-11.98	8.17	0.66	8.03	0.80	1.02
2	65	220	-8.60	-24.28	-23.60	-9.27	-3.19	2.94	1.05	2.94	1.05	-1.33e-02
2	65	240	-10.05	-50.23	-49.40	-10.88	5.69	3.33	0.86	3.18	1.01	-0.58
2	65	241	-7.80	-49.45	-49.10	-8.15	3.78	2.67	0.51	2.59	0.58	-0.40
2	65	242	-5.42	-48.66	-48.55	-5.53	2.24	2.08	0.26	2.02	0.33	-0.34
2	65	243	-3.16	-47.80	-47.76	-3.20	1.29	1.55	5.54e-03	1.43	0.12	-0.41
2	65	244	-1.30	-46.58	-46.57	-1.31	0.70	1.11	-0.19	0.92	-3.46e-03	-0.46
2	65	245	-0.28	-43.93	-43.93	-0.28	0.46	0.77	-0.14	0.67	-4.13e-02	-0.29
2	65	246	-11.46	-46.79	-46.67	-11.58	2.08	0.71	-4.20	-3.96	0.47	-1.06
2	65	247	-8.57	-47.26	-47.25	-8.57	0.37	0.14	-4.23	-4.09	6.75e-03	-0.75
2	65	248	-5.49	-47.45	-47.44	-5.51	-0.71	-0.34	-4.60	-4.46	-0.49	-0.77
2	65	249	-2.98	-47.30	-47.27	-3.01	-1.09	-0.55	-4.90	-4.75	-0.69	-0.78
2	65	250	-1.23	-46.58	-46.57	-1.25	-1.09	-0.38	-5.01	-4.91	-0.48	-0.68
2	65	251	-0.32	-43.77	-43.76	-0.33	-0.61	-0.17	-5.16	-5.07	-0.26	-0.65
2	65	252	-12.31	-45.36	-45.21	-12.46	-2.23	1.92	-0.26	8.58e-02	1.58	-0.80
2	65	253	-7.88	-46.69	-46.47	-8.11	-2.96	1.13	-0.69	-7.45e-02	0.51	-0.86
2	65	254	-4.65	-47.37	-47.12	-4.89	-3.21	0.80	-1.04	-0.21	-2.64e-02	-0.92
2	65	255	-2.49	-47.62	-47.41	-2.70	-3.05	0.76	-0.95	-0.15	-4.31e-02	-0.85
2	65	256	-1.02	-47.54	-47.44	-1.12	-2.15	0.70	-0.75	-4.17e-02	-1.18e-02	-0.73
2	65	257	-0.28	-46.12	-46.08	-0.32	-1.44	0.83	-0.85	1.35e-03	-2.21e-02	-0.84

2	65	258	-15.82	-44.24	-43.89	-16.17	3.12	4.91	1.10	3.45	2.55	-1.86
2	65	259	-11.16	-45.11	-45.10	-11.16	-0.38	4.68	0.93	3.93	1.68	-1.49
2	65	260	-6.41	-47.62	-47.49	-6.53	-2.27	4.44	0.68	4.08	1.04	-1.10
2	65	261	-3.18	-48.87	-48.73	-3.32	-2.54	4.34	0.52	4.11	0.75	-0.91
2	65	262	-1.34	-49.40	-49.34	-1.40	-1.66	4.25	0.19	4.06	0.38	-0.86
2	65	263	-0.63	-49.37	-49.35	-0.64	-0.88	4.25	-2.29e-03	4.06	0.18	-0.87
2	65	264	-18.84	-38.60	-37.57	-19.87	-4.39	1.61	-0.14	-0.13	1.61	8.44e-02
2	65	265	-11.28	-45.66	-44.20	-12.73	-6.92	3.01	1.42	2.89	1.54	-0.42
2	65	266	-5.69	-49.15	-48.28	-6.55	-6.07	4.62	1.16	4.53	1.24	-0.53
2	65	267	-3.07	-49.93	-49.48	-3.51	-4.54	5.51	0.90	5.44	0.97	-0.58
2	65	268	-1.39	-50.90	-50.71	-1.58	-3.07	6.17	0.53	6.12	0.57	-0.52
2	65	269	-0.73	-53.29	-53.19	-0.82	-2.27	6.86	0.31	6.82	0.36	-0.53

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		-146.83	-82.56	-138.93	-35.32		-54.32	-42.82	-50.29	-15.75
	19.08		13.12	16.65	50.47	36.68		36.12	35.52	21.54

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
			kN/ m	kN/ m	kN/ m	kN/ m	kN/ m	kN	kN	kN	kN	kN
8	1	1	-8.88	-141.42	-139.91	-10.39	-14.07	-0.87	-20.56	-20.54	-0.89	-0.54
8	1	2	-31.16	-61.19	-55.47	-36.88	11.80	2.08	-5.81	1.17	-4.91	-2.52
8	1	3	-6.48	-145.72	-145.72	-6.49	1.01	0.60	-9.49e-02	0.28	0.22	0.35
8	1	5	-60.80	-105.25	-104.81	-61.25	-4.41	-11.11	-19.30	-18.40	-12.02	2.57
8	1	6	-63.92	-79.98	-79.56	-64.34	-2.55	-4.11	-19.72	-19.62	-4.22	1.27
8	1	7	-8.82	-132.07	-132.05	-8.84	1.59	-1.46	-23.87	-23.85	-1.48	-0.58
8	1	8	-96.33	-191.92	-191.69	-96.57	-4.74	-10.34	-27.04	-14.15	-23.24	-7.00
8	1	9	-7.30	-48.79	-43.07	-13.02	-14.31	-0.77	-3.19	-2.47	-1.49	-1.11
8	1	10	-14.44	-28.78	-28.08	-15.14	3.08	-1.37	-3.41	-2.65	-2.13	0.99
8	1	11	-47.10	-130.15	-50.99	-126.26	17.54	-2.82	-32.38	-3.42	-31.78	4.16
8	1	12	-5.53	-108.28	-5.93	-107.88	6.42	-1.86	-30.63	-1.87	-30.61	0.68
8	1	27	-56.16	-109.39	-96.16	-69.39	-23.00	-1.27	-15.91	-5.34	-11.84	-6.55
8	1	37	-45.81	-81.90	-47.13	-80.58	6.78	0.26	-16.25	-2.53	-13.46	6.19
8	1	47	-63.81	-124.97	-68.31	-120.47	15.97	-0.77	-27.12	-2.27	-25.62	6.12
8	1	57	-64.80	-136.66	-72.53	-128.92	22.27	-1.93	-30.98	-2.78	-30.14	4.87
8	1	61	-57.67	-134.10	-64.36	-127.41	21.60	-2.55	-31.66	-3.20	-31.02	4.29
8	1	68	-35.90	-128.28	-37.71	-126.47	12.81	-3.01	-33.86	-3.45	-33.42	3.66
8	1	72	-25.66	-124.88	-26.29	-124.24	7.91	-3.44	-34.18	-3.69	-33.93	2.76
8	1	76	4.75	-122.44	-113.12	-4.57	-33.14	-0.50	-13.86	-13.22	-1.15	2.87
8	1	83	-16.98	-121.39	-120.49	-17.88	9.65	-4.64	-19.76	-18.36	-6.04	-4.38
8	1	87	-14.95	-119.27	-119.25	-14.97	1.48	-2.17	-21.73	-21.39	-2.51	-2.56
8	1	91	-16.82	-128.14	-128.13	-16.83	1.19	-2.61	-23.38	-23.27	-2.72	-1.46
8	1	95	-15.27	-129.62	-129.58	-15.31	2.26	-2.84	-23.91	-23.88	-2.86	-0.78
8	1	99	-11.43	-132.16	-132.13	-11.46	1.88	-2.23	-23.81	-23.79	-2.26	-0.75
8	1	106	-21.27	-128.87	-128.87	-21.27	0.38	-0.71	-1.98	-1.64	-1.05	0.57
8	1	110	-18.25	-130.12	-130.12	-18.25	0.13	-0.48	-0.86	-0.74	-0.59	0.18
8	1	114	-17.64	-132.26	-132.25	-17.65	-0.93	-1.80e-02	-0.24	-0.14	-0.12	-0.11
8	1	118	-15.24	-135.98	-135.97	-15.25	-1.09	0.33	2.39e-02	0.25	0.10	-0.13
8	1	122	-9.75	-141.08	-141.08	-9.75	9.20e-02	0.42	0.17	0.40	0.19	7.67e-02
8	1	129	-20.39	-144.10	-126.30	-38.18	-43.41	-1.63	-17.08	-16.87	-1.84	1.77
8	1	133	-24.43	-146.59	-129.94	-41.09	-41.92	-1.78	-18.39	-18.27	-1.89	1.37
8	1	137	-23.58	-145.19	-131.91	-36.87	-37.93	-1.82	-19.11	-19.06	-1.88	1.01
8	1	141	-19.14	-140.15	-131.85	-27.44	-30.59	-2.08	-19.63	-19.61	-2.10	0.61
8	1	145	-13.30	-141.45	-138.27	-16.48	-19.93	-1.58	-20.05	-20.04	-1.58	0.25
8	1	151	4.21	-112.16	-111.23	3.28	-10.36	-2.98	-17.81	-12.81	-7.97	7.01
8	1	158	-47.96	-126.97	-126.87	-48.07	-2.91	6.22	-2.34	-2.30	6.18	0.58
8	1	162	-11.74	-138.26	-123.07	-26.92	-41.12	-2.21	-15.91	-15.46	-2.66	2.44
8	1	171	-14.95	-130.19	-15.24	-129.89	5.80	-3.05	-33.21	-3.07	-33.19	0.81
8	1	176	-28.01	-125.68	-125.65	-28.05	-1.84	0.25	-3.26	-2.99	-1.40e-02	0.93
8	1	180	-30.72	-183.12	-174.09	-39.75	35.98	-9.98	-22.10	-16.86	-15.21	-6.00
8	1	221	-21.19	-104.69	-103.58	-22.30	9.56	-1.53	-19.92	-18.82	-2.63	-4.37
8	1	222	-35.25	-120.49	-119.38	-36.35	9.63	-2.19	-26.00	-25.88	-2.31	-1.65
8	1	223	-41.88	-118.93	-118.77	-42.04	3.53	-1.98	-26.07	-25.92	-2.14	1.95
8	1	224	-35.34	-105.60	-105.47	-35.47	-2.97	-0.90	-22.07	-20.90	-2.07	4.85
8	1	225	-14.96	-80.24	-80.03	-15.18	-3.76	-0.39	-9.07	-7.28	-2.18	-3.52
8	1	226	-23.27	-71.73	-71.69	-23.32	-1.49	0.44	-13.43	-10.72	-2.27	5.50
8	1	239	-59.97	-111.19	-61.13	-110.03	7.61	24.48	3.73	3.73	24.48	-1.75e-03
8	1	270	-85.69	-112.04	-107.50	-90.22	-9.95	12.56	5.55	9.16	8.94	-3.50

8	1	271	-71.85	-119.98	-119.73	-72.10	-3.51	4.60	-5.76	-5.47	4.31	1.70
8	1	272	-45.65	-137.45	-136.31	-46.79	-10.17	8.67	-12.44	-0.63	-3.15	10.48
8	1	273	-63.75	-96.03	-63.89	-95.90	2.09	27.63	-4.40	-4.31	27.53	1.72
8	1	274	-52.67	-110.24	-53.79	-109.12	7.97	32.05	2.59	3.03	31.61	3.58
8	1	275	-70.61	-95.58	-70.62	-95.57	-0.47	25.43	-0.41	1.89	23.13	-7.35
8	1	276	-38.05	-121.53	-39.43	-120.16	10.63	3.21	-7.80	0.81	-5.41	4.54
8	1	277	-47.40	-123.62	-50.19	-120.83	14.31	2.73	-8.03	-7.64e-02	-5.22	4.73
8	1	278	-54.24	-125.82	-58.40	-121.65	16.75	2.31	-8.62	0.22	-6.52	4.30
8	1	279	-40.14	-152.30	-147.96	-44.49	-21.64	10.39	-10.53	4.76	-4.90	9.28
8	1	280	-59.40	-114.43	-110.02	-63.81	-14.95	6.90	-12.33	-1.85	-3.58	9.58
8	1	281	-84.49	-89.65	-89.34	-84.80	-1.23	18.94	13.99	14.84	18.10	1.86
8	1	282	-74.24	-91.71	-83.46	-82.49	-8.72	8.56	-2.32	-0.27	6.52	-4.25
8	1	283	-84.67	-149.41	-132.17	-101.91	-28.62	-0.76	-12.30	-3.15	-9.91	-4.67
8	1	284	-54.99	-89.59	-55.52	-89.06	4.25	31.02	3.59	7.92	26.68	10.01
8	1	285	-66.44	-117.31	-110.13	-73.62	-17.72	17.32	2.28	14.92	4.67	5.51
8	1	286	-77.93	-95.35	-86.85	-86.43	-8.70	21.31	14.75	20.66	15.39	-1.95
8	1	287	-66.95	-109.03	-67.54	-108.43	4.98	19.44	8.38	8.61	19.20	1.58
8	1	288	-62.10	-105.60	-105.18	-62.51	4.24	7.50	-13.70	-7.48	1.28	-9.66
8	1	289	-77.96	-95.04	-77.96	-95.04	3.99e-02	18.84	3.70	9.51	13.03	7.36
8	1	290	-82.28	-96.66	-96.36	-82.59	-2.08	18.09	13.83	16.09	15.84	-2.13
8	1	291	-58.51	-112.05	-111.30	-59.26	6.29	7.05	-8.27	-7.50	6.28	-3.34
8	1	292	-39.37	-171.03	-170.39	-40.00	9.13	-3.60	-10.52	-3.70	-10.43	0.80
8	1	293	-77.19	-96.95	-77.43	-96.71	-2.18	23.81	13.45	14.69	22.56	-3.36
8	1	294	-31.95	-121.46	-121.42	-32.00	2.03	-2.57	-8.56	-8.42	-2.71	-0.90
8	1	295	-21.25	-127.47	-127.47	-21.25	0.11	-1.60	-9.85	-9.81	-1.64	-0.58
8	1	296	-13.56	-130.10	-130.10	-13.56	0.50	-1.36	-10.51	-10.47	-1.40	-0.59
8	1	297	-6.63	-132.76	-132.75	-6.64	0.74	-0.73	-10.78	-10.73	-0.78	-0.67
8	1	298	-3.10	-135.77	-135.76	-3.10	0.86	-0.39	-11.04	-11.03	-0.40	-0.31
8	1	299	-63.46	-104.27	-100.86	-66.87	-11.29	3.25	-17.90	-7.35	-7.30	-10.58
8	1	300	-17.24	-134.98	-125.92	-26.30	-31.38	4.89	8.16e-02	4.83	0.14	0.51
8	1	301	-17.43	-139.02	-130.16	-26.29	-31.60	3.89	0.41	3.79	0.51	0.59
8	1	302	-16.66	-140.15	-132.80	-24.02	-29.23	2.97	0.30	2.89	0.39	0.46
8	1	303	-14.05	-139.20	-134.52	-18.73	-23.74	2.19	7.71e-02	2.17	9.91e-02	0.21
8	1	304	-8.45	-142.38	-140.67	-10.17	-15.06	1.72	-7.23e-02	1.71	-6.48e-02	-0.12
8	1	305	-4.97	-150.63	-149.93	-5.66	-10.01	1.93	-0.54	1.48	-9.29e-02	-0.95
8	1	306	-25.68	-128.71	-126.95	-27.43	-13.32	28.45	3.79	28.44	3.79	-0.27
8	1	307	-21.74	-134.46	-132.43	-23.77	-15.00	27.72	3.35	27.72	3.35	-0.31
8	1	308	-18.17	-137.52	-135.75	-19.94	-14.44	26.87	3.07	26.86	3.08	-0.40
8	1	309	-14.61	-140.30	-139.25	-15.67	-11.47	26.19	2.88	26.18	2.89	-0.36
8	1	310	-8.77	-145.20	-144.90	-9.06	-6.37	25.77	1.77	25.76	1.77	-0.36
8	1	311	-6.45	-162.97	-162.90	-6.52	-3.34	26.12	0.87	26.12	0.88	-0.37
8	1	312	-29.07	-129.61	-129.47	-29.22	-3.81	13.78	2.35	13.77	2.36	-0.34
8	1	313	-23.28	-134.37	-134.27	-23.38	-3.40	13.97	1.43	13.93	1.47	-0.67
8	1	314	-18.91	-137.09	-137.03	-18.97	-2.65	14.12	1.56	14.08	1.60	-0.72
8	1	315	-14.41	-140.37	-140.36	-14.42	-1.19	14.19	1.48	14.16	1.51	-0.57
8	1	316	-7.84	-146.36	-146.36	-7.85	0.92	14.28	0.95	14.27	0.96	-0.26
8	1	317	-4.74	-157.32	-157.29	-4.76	2.03	14.73	0.62	14.71	0.64	0.49
8	1	318	-34.68	-129.24	-129.11	-34.81	3.52	4.23	-1.80	3.64	-1.21	1.80
8	1	319	-28.50	-123.82	-123.82	-28.50	0.45	2.46	-1.34	2.43	-1.31	0.35
8	1	320	-21.16	-127.05	-126.97	-21.24	-2.95	2.05	-0.27	2.05	-0.27	3.71e-02
8	1	321	-13.85	-131.27	-131.16	-13.96	-3.55	1.79	0.27	1.76	0.29	-0.19
8	1	322	-7.26	-84.65	-7.29	-84.62	1.33	43.14	4.91	6.24	41.82	-6.99
8	1	323	-59.55	-108.36	-108.31	-59.60	1.57	7.67	-8.30	-7.51	6.88	3.45
8	1	324	-30.62	-122.90	-121.73	-31.78	-10.31	28.56	2.48	28.49	2.55	-1.35
8	1	325	-31.33	-104.89	-31.79	-104.42	5.83	28.47	10.22	10.52	28.17	2.31
8	1	326	-64.81	-96.08	-95.79	-65.10	-3.00	10.06	-12.30	-6.57	4.33	9.76
8	1	327	-6.98	-134.47	-134.43	-7.03	-2.30	1.33	0.24	1.28	0.30	-0.24
8	1	328	-4.04	-140.81	-140.79	-4.05	-1.32	0.79	0.14	0.79	0.14	-1.43e-02
8	1	329	-18.25	-130.01	-122.20	-26.06	-28.49	5.86	-0.69	5.79	-0.63	0.65
8	1	330	-40.22	-127.61	-126.91	-40.92	7.80	-4.07	-7.00	-5.55	-5.52	-1.47
8	1	331	-22.46	-118.36	-113.12	-27.70	-21.80	8.58	-2.96	8.40	-2.78	1.41
8	1	332	-38.43	-112.79	-112.17	-39.05	-6.76	28.37	-0.80	28.10	-0.53	-2.77
8	1	333	-38.07	-105.25	-104.61	-38.71	-6.53	11.88	-2.89	11.63	-2.64	1.88
8	1	334	-51.68	-94.27	-94.20	-51.75	-1.69	37.06	2.36	36.74	2.67	-3.28
8	1	335	-49.47	-66.08	-59.37	-56.17	8.15	23.84	7.19	20.37	10.66	-6.76
8	1	336	-62.12	-71.43	-64.46	-69.09	4.04	35.73	15.05	35.73	15.05	-6.94e-02
8	1	337	-9.40	-74.85	-10.68	-73.57	9.06	36.89	4.16	11.44	29.61	-13.61
8	1	338	-23.72	-80.76	-24.88	-79.61	8.03	36.27	11.02	17.29	30.01	-10.90
8	1	339	-16.76	-100.97	-16.90	-100.84	3.37	33.30	8.08	8.91	32.48	-4.48
8	1	340	-44.51	-88.69	-45.43	-87.77	6.31	29.08	20.12	20.78	28.41	2.34
8	1	341	-4.58	-101.50	-4.74	-101.34	3.87	2.23	-0.11	1.60	0.52	-1.04
8	1	342	-13.63	-119.14	-13.81	-118.97	4.30	1.77	-3.46	1.70	-3.39	-0.58
8	1	343	-26.86	-119.14	-27.36	-118.64	6.76	2.68	-6.81	1.70	-5.83	2.89
8	1	344	-34.62	-122.95	-122.76	-34.80	-4.00	10.14	2.45	10.14	2.45	2.01e-02
8	1	345	-58.64	-125.42	-62.57	-121.49	15.71	4.24	-10.92	1.68	-8.36	5.67

8	1	346	-41.02	-112.03	-112.02	-41.03	-0.55	13.33	-2.07	11.46	-0.21	-5.02
8	1	347	-63.90	-112.39	-65.58	-110.71	8.86	7.86	-14.60	2.06	-8.81	9.82
8	1	348	-55.80	-97.48	-97.39	-55.89	1.94	12.57	-5.17	10.35	-2.95	-5.87
8	1	349	-69.96	-75.72	-72.67	-73.01	2.88	13.49	0.86	7.74	6.61	6.29
8	1	350	-43.16	-107.11	-43.92	-106.36	6.91	30.90	4.91	6.32	29.50	5.88
8	1	351	-70.81	-75.68	-71.06	-75.43	1.08	6.40	-16.79	-4.62	-5.76	11.58
8	1	352	-38.51	-132.71	-132.71	-38.51	0.30	5.44	-2.78	3.02	-0.36	3.74
8	3	1	-9.12	-137.09	-136.36	-9.85	-9.64	-0.98	-20.12	-20.08	-1.02	-0.78
8	3	2	-49.55	-100.86	-57.86	-92.55	18.90	7.59	1.94	2.51	7.02	-1.70
8	3	3	-6.23	-120.34	-120.34	-6.23	0.50	0.10	-4.27	-4.27	0.10	3.32e-02
8	3	5	-49.81	-105.02	-104.85	-49.98	3.07	-19.32	-31.15	-30.11	-20.36	3.35
8	3	6	-44.91	-83.76	-82.90	-45.76	5.70	-10.25	-29.94	-29.78	-10.41	1.78
8	3	7	-7.37	-124.63	-124.63	-7.37	0.45	-1.00	-17.29	-17.27	-1.02	-0.57
8	3	8	-69.33	-157.79	-157.26	-69.86	-6.80	-7.97	-25.64	-9.62	-23.99	-5.14
8	3	9	-19.68	-40.69	-38.67	-21.70	-6.20	0.16	-4.36	-2.43	-1.77	-2.24
8	3	10	-22.67	-29.49	-27.73	-24.43	-2.98	0.38	-4.77	-2.26	-2.13	2.58
8	3	11	4.53	-121.95	-2.78	-114.64	29.52	-3.78	-28.45	-3.83	-28.39	1.18
8	3	12	-3.02	-139.71	-4.63	-138.10	14.74	-2.43	-39.86	-2.50	-39.79	1.56
8	3	27	-60.25	-94.33	-80.22	-74.37	-16.79	-0.81	-17.70	-4.56	-13.94	-7.02
8	3	37	-40.02	-85.15	-40.02	-85.15	-9.35e-02	1.35	-18.08	-2.24	-14.49	7.55
8	3	47	-45.03	-118.85	-46.36	-117.52	9.84	-0.80	-27.28	-2.10	-25.98	5.71
8	3	57	-30.24	-124.59	-34.92	-119.91	20.48	-2.55	-29.00	-2.85	-28.70	2.80
8	3	61	-10.27	-122.07	-16.78	-115.56	26.17	-3.43	-28.43	-3.51	-28.35	1.37
8	3	68	10.77	-127.08	3.59	-119.90	30.64	-3.87	-31.49	-3.95	-31.41	1.49
8	3	72	7.13	-128.12	1.48	-122.47	27.06	-4.07	-33.90	-4.15	-33.82	1.58
8	3	76	-46.33	-115.43	-112.21	-49.55	-14.57	-1.24	-9.18	-9.06	-1.37	1.00
8	3	83	5.17	-109.29	-109.29	5.17	0.41	-4.39	-15.22	-13.56	-6.04	-3.90
8	3	87	-5.37e-02	-114.48	-114.32	-0.21	-4.28	-1.65	-16.68	-16.30	-2.04	-2.38
8	3	91	-8.43	-122.79	-122.71	-8.51	-2.99	-1.99	-17.79	-17.66	-2.12	-1.43
8	3	95	-11.01	-123.63	-123.61	-11.02	-1.14	-2.12	-17.98	-17.94	-2.16	-0.79
8	3	99	-9.17	-124.07	-124.07	-9.17	-0.11	-1.61	-17.55	-17.51	-1.65	-0.74
8	3	106	-18.76	-120.84	-120.83	-18.77	1.18	0.73	-6.20	-6.08	0.60	0.93
8	3	110	-18.36	-121.36	-121.36	-18.36	-0.36	-0.83	-5.68	-5.65	-0.85	0.35
8	3	114	-19.89	-122.75	-122.73	-19.92	-1.69	-0.54	-4.96	-4.96	-0.54	-7.49e-02
8	3	118	-18.18	-124.56	-124.53	-18.20	-1.61	-0.23	-4.43	-4.42	-0.24	-0.21
8	3	122	-11.47	-125.70	-125.70	-11.47	-0.34	-2.26e-02	-4.18	-4.18	-2.73e-02	-0.14
8	3	129	-45.34	-128.44	-120.97	-52.81	-23.77	-1.50	-13.89	-13.89	-1.50	3.11e-02
8	3	133	-39.83	-130.52	-123.54	-46.81	-24.17	-1.63	-15.81	-15.81	-1.63	-9.68e-05
8	3	137	-31.40	-130.64	-124.97	-37.07	-23.03	-1.76	-16.98	-16.98	-1.76	1.57e-02
8	3	141	-22.00	-128.54	-124.89	-25.65	-19.39	-2.08	-17.99	-17.98	-2.08	-0.10
8	3	145	-13.47	-132.44	-130.96	-14.94	-13.17	-1.64	-19.01	-19.01	-1.64	-0.20
8	3	151	-51.56	-108.15	-107.99	-51.72	3.01	-1.37	-8.31	-7.02	-2.67	2.71
8	3	158	-31.59	-119.92	-119.91	-31.60	0.97	14.20	-5.82	-5.73	14.11	1.34
8	3	162	-47.16	-124.93	-118.69	-53.41	-21.14	-1.63	-11.99	-11.97	-1.65	0.38
8	3	171	-1.64	-141.90	-4.31	-139.23	19.17	-3.52	-37.70	-3.55	-37.67	1.03
8	3	176	-22.04	-119.33	-119.32	-22.05	0.90	5.38	-6.87	-6.71	5.21	1.42
8	3	180	-8.36	-149.73	-146.05	-12.03	22.50	-8.19	-18.70	-11.18	-15.71	-4.74
8	3	221	-42.17	-105.73	-104.12	-43.79	10.01	8.39e-03	-19.20	-17.34	-1.85	-5.67
8	3	222	-58.40	-122.75	-121.40	-59.74	9.21	-1.38	-24.08	-23.91	-1.55	-1.96
8	3	223	-64.63	-120.21	-119.89	-64.95	4.20	-1.19	-24.40	-24.12	-1.47	2.54
8	3	224	-55.96	-106.19	-106.06	-56.09	-2.59	0.62	-21.62	-19.62	-1.39	6.37
8	3	225	-29.04	-74.29	-74.25	-29.08	1.23	1.31	-10.18	-6.89	-1.98	-5.20
8	3	226	-36.72	-71.62	-70.96	-37.38	-4.76	2.58	-14.61	-10.10	-1.93	7.56
8	3	239	-49.79	-97.92	-54.52	-93.19	14.33	26.24	2.83	3.28	25.79	-3.23
8	3	270	-73.60	-105.27	-104.18	-74.69	-5.78	16.43	9.46	15.56	10.33	-2.31
8	3	271	-56.40	-114.98	-114.93	-56.46	1.78	5.76	-12.73	-12.33	5.37	2.67
8	3	272	-34.73	-127.51	-126.39	-35.85	-10.15	12.02	-17.17	-1.99	-3.17	14.58
8	3	273	-58.34	-81.96	-65.18	-75.12	10.71	25.84	-10.74	-10.68	25.78	1.46
8	3	274	-41.58	-98.83	-47.62	-92.79	17.59	31.25	-0.64	-0.52	31.13	1.97
8	3	275	-68.02	-80.99	-71.31	-77.70	5.64	26.33	-3.50	0.30	22.53	-9.94
8	3	276	-15.22	-120.81	-21.89	-114.15	25.68	0.62	-7.86	-1.49	-5.76	3.66
8	3	277	-21.67	-116.11	-29.07	-108.71	25.38	-0.29	-4.62	-1.44	-3.47	1.91
8	3	278	-31.01	-115.48	-37.45	-109.04	22.41	0.28	-4.40	0.17	-4.29	0.72
8	3	279	-29.73	-136.13	-133.06	-32.80	-17.82	15.58	-11.97	8.33	-4.72	12.13
8	3	280	-46.32	-109.38	-107.36	-48.34	-11.10	6.55	-17.62	-3.92	-7.15	11.98
8	3	281	-76.13	-89.88	-89.62	-76.40	1.87	21.95	19.96	21.40	20.52	0.89
8	3	282	-64.65	-85.71	-85.09	-65.26	-3.55	6.62	-6.43	-2.85	3.04	-5.82
8	3	283	-69.71	-128.49	-117.28	-80.92	-23.09	2.18	-10.38	1.65	-9.85	-2.53
8	3	284	-51.11	-89.67	-57.79	-82.99	14.59	28.19	-7.31	-1.53	22.40	13.11
8	3	285	-54.74	-109.57	-106.83	-57.48	-11.95	23.22	1.12	20.20	4.14	7.59
8	3	286	-69.28	-88.81	-88.29	-69.79	-3.13	25.78	14.26	25.13	14.90	-2.65
8	3	287	-59.14	-97.19	-61.45	-94.89	9.08	21.47	10.95	11.15	21.26	-1.44
8	3	288	-62.72	-104.30	-103.55	-63.47	5.54	10.68	-10.77	-3.37	3.28	-10.19
8	3	289	-73.55	-89.20	-73.72	-89.04	1.60	21.23	8.85	14.35	15.72	6.15
8	3	290	-71.38	-98.05	-97.97	-71.46	1.49	24.32	17.06	23.49	17.89	-2.31

8	3	291	-60.70	-113.39	-112.41	-61.67	7.11	9.43	-3.56	-2.48	8.36	-3.58
8	3	292	-26.61	-145.94	-145.88	-26.66	2.62	0.72	-10.36	6.05e-02	-9.70	2.62
8	3	293	-75.75	-82.64	-77.30	-81.10	2.87	27.04	14.37	18.05	23.36	-5.76
8	3	294	-20.50	-115.91	-115.58	-20.83	-5.60	-1.48	-4.53	-4.16	-1.85	-1.00
8	3	295	-12.77	-122.03	-121.70	-13.11	-6.02	-0.98	-5.56	-5.41	-1.12	-0.80
8	3	296	-8.64	-123.64	-123.46	-8.81	-4.49	-0.74	-6.06	-5.93	-0.87	-0.82
8	3	297	-4.54	-123.67	-123.62	-4.59	-2.46	-0.23	-6.09	-5.96	-0.37	-0.89
8	3	298	-2.31	-126.13	-126.12	-2.32	-1.19	-7.00e-02	-6.04	-5.97	-0.14	-0.64
8	3	299	-67.75	-93.33	-91.15	-69.93	-7.14	4.91	-17.48	-5.16	-7.41	-11.14
8	3	300	-36.28	-123.07	-120.21	-39.14	-15.49	3.78	-0.18	2.99	0.61	-1.59
8	3	301	-31.42	-126.25	-123.20	-34.47	-16.73	2.69	0.30	2.16	0.83	-0.99
8	3	302	-25.75	-127.61	-124.97	-28.40	-16.18	1.82	2.59e-02	1.38	0.47	-0.78
8	3	303	-19.17	-127.67	-125.98	-20.86	-13.43	1.18	-0.59	0.57	1.49e-02	-0.84
8	3	304	-10.40	-131.70	-131.07	-11.02	-8.71	0.83	-1.06	-6.66e-02	-0.17	-0.94
8	3	305	-5.88	-141.33	-141.06	-6.15	-6.00	1.23	-1.90	-0.49	-0.18	-1.56
8	3	306	-33.31	-120.82	-120.77	-33.37	-2.17	21.15	4.53	20.97	4.70	-1.68
8	3	307	-28.09	-124.25	-124.08	-28.26	-3.99	21.62	3.62	21.54	3.70	-1.18
8	3	308	-22.68	-126.09	-125.92	-22.85	-4.18	21.34	2.74	21.25	2.83	-1.29
8	3	309	-17.06	-127.83	-127.76	-17.12	-2.70	21.07	2.47	20.98	2.55	-1.24
8	3	310	-9.55	-130.71	-130.70	-9.55	-0.76	20.97	1.55	20.91	1.61	-1.08
8	3	311	-6.39	-144.53	-144.53	-6.40	7.91e-02	21.46	0.79	21.41	0.83	-0.97
8	3	312	-29.85	-123.42	-122.85	-30.42	7.28	6.91	4.30	6.91	4.30	-0.10
8	3	313	-24.91	-125.56	-125.09	-25.37	6.81	7.97	1.61	7.86	1.73	-0.86
8	3	314	-20.15	-126.39	-126.00	-20.54	6.41	8.73	1.05	8.54	1.23	-1.19
8	3	315	-14.62	-127.47	-127.10	-14.99	6.39	9.35	1.09	9.21	1.24	-1.09
8	3	316	-7.62	-128.96	-128.67	-7.92	5.95	9.87	0.80	9.80	0.87	-0.77
8	3	317	-4.04	-131.68	-131.46	-4.26	5.37	10.45	0.61	10.45	0.61	-2.28e-02
8	3	318	-26.00	-118.68	-118.29	-26.40	-6.03	4.14	0.16	3.39	0.91	1.56
8	3	319	-20.68	-117.27	-116.23	-21.72	-9.98	2.03	-0.84	2.02	-0.83	0.16
8	3	320	-14.68	-121.30	-119.90	-16.08	-12.14	1.31	-0.38	1.30	-0.38	-0.12
8	3	321	-9.47	-123.75	-122.70	-10.52	-10.90	1.07	-4.07e-02	0.83	0.20	-0.45
8	3	322	-8.27	-129.72	-8.47	-129.52	4.91	29.68	4.12	4.13	29.68	-0.37
8	3	323	-63.49	-108.66	-108.47	-63.67	2.86	9.99	-3.91	-2.86	8.94	3.67
8	3	324	-38.30	-117.05	-117.04	-38.31	0.91	20.37	2.50	19.54	3.33	-3.76
8	3	325	-25.45	-108.92	-28.72	-105.65	16.18	25.19	2.95	4.86	23.28	6.23
8	3	326	-69.46	-94.31	-94.02	-69.75	-2.66	13.33	-9.93	-3.05	6.45	10.62
8	3	327	-4.84	-123.67	-123.22	-5.29	-7.34	0.85	-0.34	0.26	0.25	-0.60
8	3	328	-2.57	-124.18	-123.97	-2.78	-5.03	0.55	-0.64	-0.23	0.14	-0.57
8	3	329	-41.34	-119.69	-117.63	-43.40	-12.55	4.78	-1.01	4.06	-0.29	-1.91
8	3	330	-29.63	-115.70	-115.69	-29.65	-1.17	-1.53	-4.43	-1.74	-4.21	-0.76
8	3	331	-48.02	-111.84	-111.11	-48.74	-6.77	7.41	-1.86	7.17	-1.62	-1.45
8	3	332	-45.46	-111.19	-110.87	-45.77	4.54	20.98	-2.02	19.29	-0.33	-5.99
8	3	333	-62.23	-103.07	-102.37	-62.93	5.32	10.86	0.78	10.76	0.88	-1.01
8	3	334	-56.03	-98.06	-96.12	-57.96	8.82	28.94	0.58	28.24	1.27	-4.39
8	3	335	-52.23	-90.30	-60.94	-81.59	15.99	18.01	10.59	15.37	13.23	-3.55
8	3	336	-57.33	-84.55	-67.87	-74.00	13.26	26.04	10.60	25.31	11.33	3.27
8	3	337	-12.22	-127.57	-13.74	-126.05	13.16	30.65	7.16	8.37	29.44	-5.20
8	3	338	-23.90	-105.28	-26.39	-102.79	14.01	27.51	11.52	12.05	26.98	-2.87
8	3	339	-14.65	-121.24	-15.55	-120.33	9.80	24.41	5.28	5.38	24.31	1.41
8	3	340	-42.49	-95.71	-47.26	-90.94	15.20	27.37	8.38	12.04	23.72	7.49
8	3	341	-2.60	-137.96	-3.34	-137.21	10.01	0.55	-11.02	1.94e-02	-10.49	2.42
8	3	342	-5.86	-133.91	-7.55	-132.23	14.60	0.20	-10.98	-0.29	-10.49	2.28
8	3	343	-10.44	-123.02	-14.97	-118.49	22.12	0.85	-9.90	-0.78	-8.27	3.86
8	3	344	-33.49	-119.66	-118.90	-34.26	8.07	6.05	2.19	2.35	5.89	-0.75
8	3	345	-40.88	-115.45	-44.74	-111.59	16.52	3.62	-7.10	2.92	-6.40	2.65
8	3	346	-39.83	-112.49	-110.90	-41.42	10.64	8.85	-8.30	1.19	-0.64	-8.53
8	3	347	-52.80	-107.81	-53.45	-107.16	5.97	9.02	-12.26	4.36	-7.59	8.80
8	3	348	-49.35	-103.63	-100.03	-52.95	13.50	2.80	-11.94	-1.49	-7.64	-6.70
8	3	349	-58.82	-87.90	-77.91	-68.82	13.81	8.53	-11.14	-3.63	1.02	9.56
8	3	350	-34.33	-104.23	-39.45	-99.11	18.21	28.24	-1.23	0.65	26.36	7.20
8	3	351	-65.58	-80.58	-66.11	-80.06	-2.75	8.94	-17.11	-2.94	-5.22	12.98
8	3	352	-29.49	-121.84	-121.47	-29.86	-5.83	7.35	-2.36	1.78	3.22	4.80
8	14	1	-6.05	-111.86	-110.01	-7.90	-13.85	-0.37	-16.72	-16.44	-0.66	-2.15
8	14	2	-26.94	-42.21	-33.77	-35.38	-7.59	26.02	-0.90	-0.39	25.52	-3.64
8	14	3	-5.44	-105.49	-105.40	-5.53	3.05	0.25	-3.21	-3.18	0.22	0.35
8	14	5	-49.40	-88.65	-88.43	-49.63	-2.98	-3.77	-9.28	-7.99	-5.07	2.34
8	14	6	-37.03	-61.57	-61.17	-37.42	-3.08	11.07	-1.11	-0.90	10.86	1.59
8	14	7	-6.65	-100.53	-100.09	-7.09	6.43	-0.71	-15.27	-15.27	-0.72	0.14
8	14	8	-79.52	-201.31	-199.47	-81.36	14.84	-4.77	-13.81	-11.15	-7.42	-4.12
8	14	9	-4.59	-45.85	-43.97	-6.47	-8.61	-3.97e-02	-2.13	-1.97	-0.21	0.57
8	14	10	18.56	-20.05	-2.33	0.84	19.24	0.89	-5.28	-1.94	-2.45	-3.07
8	14	11	5.97	-109.96	0.39	-104.38	24.81	-4.05	-33.76	-4.18	-33.63	1.96
8	14	12	-5.70	-119.59	-6.32	-118.97	8.35	-3.19	-46.13	-3.34	-45.98	2.54
8	14	27	-39.92	-108.83	-105.11	-43.63	-15.56	0.99	-6.21	-3.10	-2.11	-3.56
8	14	37	-0.47	-65.75	-6.96	-59.27	19.52	-2.53	-11.15	-2.59	-11.09	-0.72



8	14	47	-2.05	-99.34	-7.87	-93.51	23.09	-3.08	-21.81	-3.13	-21.75	0.99
8	14	57	1.69	-109.32	-5.35	-102.28	27.05	-3.40	-28.14	-3.55	-27.98	1.95
8	14	61	5.64	-109.09	-1.12	-102.34	27.01	-3.70	-30.73	-3.85	-30.57	2.04
8	14	68	4.66	-112.00	0.50	-107.83	21.64	-4.22	-36.62	-4.34	-36.50	2.00
8	14	72	0.48	-110.46	-2.00	-107.98	16.41	-4.67	-38.63	-4.82	-38.48	2.27
8	14	76	-27.21	-101.22	-86.54	-41.89	-29.51	-3.15	-9.59	-9.17	-3.57	-1.59
8	14	83	-14.67	-115.98	-103.99	-26.65	32.72	-2.81	-16.32	-16.02	-3.11	-1.99
8	14	87	-12.64	-97.48	-93.03	-17.09	18.91	-1.59	-17.26	-17.16	-1.69	-1.27
8	14	91	-14.15	-100.43	-98.18	-16.40	13.77	-1.82	-17.47	-17.44	-1.85	-0.70
8	14	95	-13.36	-100.14	-98.64	-14.86	11.32	-1.84	-16.95	-16.95	-1.84	-0.18
8	14	99	-9.80	-102.06	-101.34	-10.51	8.08	-1.31	-15.95	-15.95	-1.31	-0.11
8	14	106	-19.92	-109.10	-108.26	-20.76	8.59	3.12	1.86	2.33	2.66	0.61
8	14	110	-18.36	-105.25	-104.26	-19.36	9.25	1.25	-6.02e-02	0.96	0.23	0.54
8	14	114	-18.88	-103.17	-102.46	-19.59	7.70	0.41	-0.28	3.72e-02	9.62e-02	0.34
8	14	118	-17.31	-104.21	-103.83	-17.69	5.72	0.23	-0.93	-0.88	0.18	0.23
8	14	122	-10.68	-107.37	-107.21	-10.84	3.93	0.26	-2.05	-2.02	0.23	0.25
8	14	129	-19.76	-107.10	-91.32	-10.54	-33.60	-1.19	-12.33	-12.00	-1.52	-1.89
8	14	133	-18.42	-107.57	-93.38	-32.61	-32.62	-1.05	-13.43	-13.14	-1.34	-1.85
8	14	137	-16.32	-106.72	-95.23	-27.81	-30.11	-1.10	-14.13	-13.89	-1.34	-1.75
8	14	141	-13.29	-104.24	-96.59	-20.94	-25.25	-1.30	-14.88	-14.65	-1.52	-1.73
8	14	145	-9.37	-108.73	-105.39	-12.71	-17.91	-0.97	-15.76	-15.57	-1.16	-1.66
8	14	151	-33.91	-86.54	-78.08	-42.36	-19.33	7.17	-8.09	-5.36	4.43	-5.85
8	14	158	-23.48	-108.62	-108.56	-23.54	2.22	14.42	4.05	4.05	14.42	0.18
8	14	162	-20.80	-105.11	-89.19	-36.72	-32.99	-0.40	-11.21	-10.83	-0.78	-1.99
8	14	171	-5.12	-120.22	-6.11	-119.23	10.62	-4.14	-42.22	-4.27	-42.09	2.22
8	14	176	-21.43	-109.01	-108.74	-21.70	4.84	7.92	3.25	3.32	7.85	0.58
8	14	180	-23.18	-200.85	-172.55	-51.47	65.01	-5.83	-15.22	-14.42	-6.62	-2.62
8	14	221	4.34	-90.80	-80.95	-5.51	28.98	-1.73	-13.86	-13.75	-1.84	1.13
8	14	222	-0.64	-100.73	-86.42	-14.95	35.04	-1.55	-18.11	-17.73	-1.93	2.49
8	14	223	-6.54	-94.98	-82.34	-19.17	30.95	-1.35	-17.15	-16.51	-1.99	3.10
8	14	224	-5.19	-76.08	-67.22	-14.05	23.44	-1.65	-12.59	-12.06	-2.17	2.33
8	14	225	-4.11	-71.81	-71.13	-4.80	6.78	-0.90	-5.48	-5.43	-0.95	0.48
8	14	226	4.35	-45.02	-35.79	-4.87	19.25	-2.38	-5.57	-5.53	-2.42	0.36
8	14	239	-28.31	-83.46	-30.04	-81.73	9.61	4.99	-3.25	1.02	0.71	4.12
8	14	270	-69.27	-92.19	-92.17	-69.28	0.62	8.48	1.76	1.83	8.41	-0.68
8	14	271	-46.04	-102.78	-102.78	-46.04	-0.29	4.94	-0.74	-0.42	4.62	1.33
8	14	272	-31.29	-124.70	-123.63	-32.36	-9.93	9.83	-5.48	2.42	1.94	7.65
8	14	273	-42.39	-56.51	-42.51	-56.39	1.31	15.91	1.71	2.11	15.50	2.38
8	14	274	-25.54	-81.77	-27.07	-80.24	9.16	4.14	-3.17	0.20	0.77	3.64
8	14	275	-45.97	-70.03	-46.05	-69.94	-1.42	11.56	1.86	2.52	10.90	2.44
8	14	276	-9.17	-103.92	-11.97	-101.12	16.05	-2.32	-22.58	-2.95	-21.96	3.50
8	14	277	-9.72	-101.67	-13.91	-97.48	19.16	-1.90	-20.96	-2.52	-20.34	3.38
8	14	278	-10.67	-101.27	-15.87	-96.07	21.07	-1.35	-19.64	-2.15	-18.84	3.74
8	14	279	-27.03	-141.54	-139.72	-28.84	-14.30	7.74	-3.47	1.93	2.34	5.60
8	14	280	-37.60	-99.19	-94.05	-42.73	-17.03	5.90	0.34	3.13	3.12	2.78
8	14	281	-46.90	-73.16	-57.48	-62.58	12.88	7.77	-1.53	1.56	4.68	4.38
8	14	282	-48.99	-72.36	-62.12	-59.22	-11.59	9.82	2.02	2.42	9.43	-1.71
8	14	283	-71.63	-134.19	-128.85	-76.97	-17.48	2.14	-5.20	-3.66	0.61	-2.98
8	14	284	-35.89	-71.91	-36.49	-71.31	4.61	14.12	-0.84	6.83e-02	13.21	3.57
8	14	285	-50.22	-99.89	-96.13	-53.98	-13.13	10.37	5.10	7.58	7.90	2.63
8	14	286	-60.21	-67.39	-63.68	-63.92	-3.58	9.73	4.69	4.76	9.66	0.59
8	14	287	-30.52	-84.39	-33.08	-81.83	11.46	5.34	-4.51	1.05	-0.22	4.89
8	14	288	-34.53	-93.84	-85.61	-42.76	20.50	2.40	-7.92	-7.19	1.67	-2.64
8	14	289	-35.65	-76.34	-41.34	-70.65	14.11	4.99	-7.30	-0.60	-1.70	6.12
8	14	290	-54.93	-77.13	-70.18	-61.88	10.30	8.60	2.89	3.50	7.98	1.77
8	14	291	-26.51	-94.50	-80.94	-40.07	27.17	2.54	-8.86	-8.52	2.19	1.96
8	14	292	-26.73	-170.96	-165.65	-32.04	27.16	-2.07	-5.84	-5.01	-2.90	1.57
8	14	293	-47.54	-72.50	-48.14	-71.90	3.82	9.04	2.00	3.07	7.97	2.52
8	14	294	-26.61	-99.90	-96.28	-30.23	15.87	-0.62	-5.37	-5.16	-0.82	-0.96
8	14	295	-20.25	-99.52	-98.22	-21.54	10.04	-0.62	-5.30	-5.15	-0.76	-0.81
8	14	296	-13.55	-99.98	-99.39	-14.14	7.13	-0.41	-4.74	-4.60	-0.55	-0.77
8	14	297	-6.90	-101.37	-101.14	-7.13	4.65	1.82e-02	-3.74	-3.59	-0.13	-0.72
8	14	298	-3.67	-106.04	-105.92	-3.80	3.52	0.13	-2.73	-2.68	7.77e-02	-0.37
8	14	299	-43.38	-95.79	-95.78	-43.40	-0.87	2.19	-8.49	-5.43	-0.86	-4.83
8	14	300	-21.78	-100.97	-93.51	-29.24	-23.13	3.15	-2.07	0.57	0.50	-2.61
8	14	301	-19.80	-102.44	-95.82	-26.42	-22.42	3.11	-1.32	1.19	0.61	-2.20
8	14	302	-17.56	-102.84	-97.65	-22.76	-20.40	3.38	-0.87	1.85	0.65	-2.04
8	14	303	-14.17	-103.17	-99.87	-17.47	-16.81	3.73	-0.82	2.37	0.55	-2.09
8	14	304	-8.27	-108.97	-107.65	-9.58	-11.44	4.01	-0.81	2.88	0.32	-2.05
8	14	305	-5.25	-121.62	-121.02	-5.85	-8.35	4.73	-1.23	3.30	0.20	-2.54
8	14	306	-25.96	-99.24	-98.86	-26.34	-5.25	14.98	3.48	14.91	3.55	-0.88
8	14	307	-23.11	-101.21	-100.95	-23.38	-4.53	17.37	2.98	17.36	2.99	-0.34
8	14	308	-20.03	-102.45	-102.32	-20.16	-3.31	19.22	2.65	19.21	2.66	-0.47
8	14	309	-16.26	-105.22	-105.19	-16.29	-1.58	21.05	2.82	21.03	2.84	-0.51
8	14	310	-9.57	-110.82	-110.82	-9.57	-1.21e-02	22.98	2.02	22.97	2.03	-0.53

8	14	311	-7.19	-132.92	-132.92	-7.19	0.56	24.97	1.23	24.96	1.23	-0.48
8	14	312	-23.52	-106.27	-105.19	-24.60	9.40	8.52	3.71	8.08	4.14	1.38
8	14	313	-20.89	-106.88	-105.48	-22.30	10.91	8.95	1.65	8.83	1.76	0.92
8	14	314	-17.94	-106.76	-105.26	-19.45	11.46	9.58	1.32	9.52	1.37	0.64
8	14	315	-13.58	-108.21	-106.85	-14.94	11.27	10.33	1.44	10.29	1.49	0.65
8	14	316	-7.34	-112.16	-111.29	-8.21	9.53	11.08	1.02	11.03	1.07	0.73
8	14	317	-4.51	-120.73	-120.18	-5.06	7.98	12.00	0.60	11.84	0.76	1.34
8	14	318	-24.97	-112.81	-111.91	-25.86	8.83	6.17	3.05	6.15	3.07	-0.25
8	14	319	-24.53	-100.06	-99.52	-25.06	6.33	5.35	0.46	5.19	0.62	-0.86
8	14	320	-21.16	-98.22	-98.19	-21.19	1.43	4.69	9.91e-02	4.50	0.29	-0.91
8	14	321	-14.69	-100.20	-100.17	-14.71	-1.46	4.39	0.29	4.06	0.62	-1.12
8	14	322	-3.73	-88.21	-3.83	-88.11	-2.95	6.95	-4.89	-8.78e-02	2.16	5.81
8	14	323	-26.77	-86.49	-73.60	-39.67	24.57	2.63	-10.67	-8.41	0.37	4.99
8	14	324	-28.82	-96.02	-95.66	-29.18	-4.90	13.29	2.91	12.62	3.58	-2.54
8	14	325	-15.25	-89.91	-15.43	-89.72	3.70	5.15	-4.07	-0.94	2.02	4.37
8	14	326	-30.63	-71.90	-58.15	-44.38	19.45	1.53	-11.39	-7.11	-2.75	6.08
8	14	327	-7.55	-101.93	-101.86	-7.62	-2.52	4.01	9.75e-02	3.61	0.50	-1.19
8	14	328	-4.50	-107.89	-107.82	-4.57	-2.64	3.70	-0.11	3.33	0.27	-1.13
8	14	329	-24.33	-98.90	-91.32	-31.92	-22.54	3.46	-2.74	0.62	0.10	-3.09
8	14	330	-25.85	-117.77	-110.42	-33.20	-24.93	-1.28	-4.78	-4.69	-1.37	-0.54
8	14	331	-27.73	-93.18	-86.69	-34.22	-19.56	5.41	-2.19	1.84	1.38	-3.80
8	14	332	-34.06	-90.10	-89.90	-34.27	-3.41	13.62	2.66	11.54	4.75	-4.30
8	14	333	-38.34	-79.73	-75.88	-42.19	-12.02	13.29	-1.31	3.30	8.68	-6.78
8	14	334	-44.68	-76.01	-75.97	-44.73	-1.22	14.81	7.34	13.45	8.70	-2.88
8	14	335	-37.93	-59.04	-38.87	-58.09	-4.36	18.47	8.53e-02	0.84	17.72	-3.64
8	14	336	-45.31	-59.07	-45.35	-59.03	0.73	12.38	2.56	2.79	12.16	1.46
8	14	337	-2.56	-53.19	-2.95	-52.80	-4.46	24.76	-0.17	0.69	23.90	4.57
8	14	338	-13.12	-75.80	-13.23	-75.69	-2.58	17.93	-0.48	0.19	17.27	3.44
8	14	339	-8.05	-91.56	-8.06	-91.55	-0.91	6.24	-4.08	-0.41	2.57	4.94
8	14	340	-26.15	-75.25	-26.20	-75.20	1.49	13.57	-1.55	-0.63	12.65	3.61
8	14	341	-1.90	-111.44	-2.05	-111.29	4.07	-1.04	-28.22	-1.92	-27.34	4.81
8	14	342	-4.49	-109.51	-4.84	-109.16	6.07	-1.87	-25.80	-2.63	-25.04	4.19
8	14	343	-7.81	-103.91	-9.12	-102.61	11.12	-2.50	-23.62	-3.27	-22.85	3.96
8	14	344	-27.17	-103.76	-102.93	-28.00	7.97	6.70	5.63	5.63	6.70	6.87e-02
8	14	345	-12.12	-100.88	-17.64	-95.36	21.44	-0.88	-18.42	-2.04	-17.26	4.36
8	14	346	-33.16	-94.18	-93.40	-33.95	6.87	9.23	-0.53	4.94	3.77	-4.84
8	14	347	-16.82	-90.61	-22.18	-85.26	19.15	-0.84	-15.79	-2.75	-13.88	4.99
8	14	348	-41.12	-82.34	-80.95	-42.52	7.45	3.79	2.58	2.65	3.71	-0.28
8	14	349	-51.45	-62.68	-56.63	-57.50	5.60	12.79	-2.88	-0.26	10.17	5.84
8	14	350	-21.25	-86.76	-22.18	-85.83	7.77	4.55	-3.23	-0.62	1.94	3.67
8	14	351	-22.13	-64.65	-32.42	-54.37	18.21	-1.91	-10.61	-4.58	-7.93	4.01
8	14	352	-26.95	-118.43	-118.41	-26.97	1.39	8.00	3.55	5.85	5.70	2.23
8	15	1	-6.17	-111.73	-109.91	-8.00	-13.76	-0.37	-16.64	-16.36	-0.65	-2.13
8	15	2	-26.60	-42.40	-33.71	-35.28	-7.86	26.22	-1.00	-0.52	25.74	-3.57
8	15	3	-5.58	-105.32	-105.23	-5.68	3.02	0.26	-3.01	-2.97	0.22	0.35
8	15	5	-49.25	-88.41	-88.17	-49.48	-3.02	-3.55	-8.80	-7.52	-4.83	2.26
8	15	6	-36.98	-61.35	-60.95	-37.38	-3.08	11.27	-0.55	-0.34	11.07	1.54
8	15	7	-6.73	-100.45	-100.01	-7.16	6.34	-0.73	-15.39	-15.39	-0.73	0.13
8	15	8	-79.06	-200.88	-198.99	-80.94	15.03	-4.25	-13.43	-11.01	-6.68	-4.04
8	15	9	-4.17	-45.87	-43.79	-6.25	-9.08	6.51e-02	-2.25	-1.99	-0.19	0.72
8	15	10	19.22	-19.80	-1.87	1.30	19.45	1.15	-5.53	-1.93	-2.44	-3.33
8	15	11	6.06	-109.80	0.43	-104.17	24.91	-4.02	-33.56	-4.15	-33.43	2.00
8	15	12	-5.75	-119.59	-6.35	-118.98	8.31	-3.18	-46.08	-3.34	-45.92	2.60
8	15	27	-38.76	-108.75	-104.99	-42.52	-15.77	1.09	-5.72	-2.97	-1.66	-3.34
8	15	37	6.08e-02	-65.26	-6.52	-58.68	19.66	-2.45	-11.01	-2.58	-10.88	-1.05
8	15	47	-1.70	-99.01	-7.57	-93.15	23.16	-3.10	-21.47	-3.14	-21.44	0.80
8	15	57	1.92	-109.09	-5.17	-102.00	27.15	-3.40	-27.84	-3.54	-27.69	1.90
8	15	61	5.79	-108.90	-1.03	-102.09	27.11	-3.67	-30.48	-3.83	-30.32	2.06
8	15	68	4.72	-111.81	0.52	-107.61	21.72	-4.19	-36.43	-4.32	-36.30	2.04
8	15	72	0.53	-110.26	-1.97	-107.76	16.47	-4.64	-38.45	-4.80	-38.29	2.32
8	15	76	-27.54	-101.32	-86.42	-42.45	-29.62	-3.16	-9.58	-9.14	-3.59	-1.61
8	15	83	-15.46	-115.75	-103.71	-27.49	32.59	-2.65	-16.33	-16.04	-2.94	-1.96
8	15	87	-13.17	-97.34	-92.95	-17.55	18.71	-1.58	-17.33	-17.23	-1.68	-1.28
8	15	91	-14.36	-100.27	-98.06	-16.56	13.58	-1.83	-17.57	-17.53	-1.86	-0.70
8	15	95	-13.45	-99.98	-98.51	-14.92	11.18	-1.86	-17.05	-17.05	-1.86	-0.18
8	15	99	-9.87	-101.88	-101.19	-10.57	7.97	-1.32	-16.06	-16.06	-1.33	-0.11
8	15	106	-20.23	-108.88	-108.07	-21.04	8.44	3.23	2.04	2.52	2.75	0.58
8	15	110	-18.67	-105.05	-104.07	-19.64	9.12	1.39	1.38e-02	1.14	0.27	0.54
8	15	114	-19.12	-102.97	-102.28	-19.81	7.59	0.53	-0.18	0.22	0.12	0.35
8	15	118	-17.49	-104.01	-103.64	-17.86	5.65	0.27	-0.75	-0.69	0.21	0.24
8	15	122	-10.82	-107.17	-107.01	-10.98	3.88	0.27	-1.86	-1.82	0.24	0.25
8	15	129	-19.77	-107.01	-91.11	-35.67	-33.68	-1.18	-12.28	-11.95	-1.51	-1.89
8	15	133	-18.42	-107.45	-93.16	-32.71	-32.68	-1.05	-13.36	-13.08	-1.33	-1.85
8	15	137	-16.35	-106.56	-95.01	-27.90	-30.15	-1.09	-14.06	-13.82	-1.33	-1.75
8	15	141	-13.35	-104.05	-96.36	-21.03	-25.26	-1.29	-14.80	-14.58	-1.51	-1.72

8	15	145	-9.45	-108.40	-105.06	-12.79	-17.87	-0.97	-15.67	-15.49	-1.15	-1.64
8	15	151	-34.23	-86.62	-77.87	-42.99	-19.55	7.38	-8.12	-5.31	4.58	-5.97
8	15	158	-23.16	-108.38	-108.33	-23.21	2.09	14.44	4.27	4.27	14.44	0.10
8	15	162	-20.90	-105.06	-88.99	-36.96	-33.08	-0.37	-11.17	-10.79	-0.76	-2.00
8	15	171	-5.10	-119.94	-6.09	-118.95	10.63	-4.12	-42.08	-4.26	-41.94	2.28
8	15	176	-21.57	-108.80	-108.55	-21.83	4.69	8.04	3.49	3.55	7.98	0.52
8	15	180	-23.76	-200.53	-171.99	-52.31	65.04	-5.39	-15.06	-14.33	-6.13	-2.56
8	15	221	4.58	-90.42	-80.72	-5.11	28.75	-1.68	-13.76	-13.59	-1.85	1.42
8	15	222	-0.33	-100.36	-86.16	-14.54	34.91	-1.52	-17.93	-17.51	-1.95	2.61
8	15	223	-6.18	-94.64	-82.07	-18.75	30.89	-1.39	-16.90	-16.28	-2.00	3.02
8	15	224	-4.76	-75.72	-66.88	-13.60	23.43	-1.76	-12.29	-11.86	-2.19	2.08
8	15	225	-3.88	-71.55	-70.94	-4.49	6.39	-0.82	-5.51	-5.38	-0.94	0.76
8	15	226	4.93	-44.62	-35.29	-4.40	19.36	-2.43	-5.41	-5.41	-2.43	1.42e-02
8	15	239	-28.09	-83.21	-29.83	-81.47	9.64	4.70	-3.86	0.87	-3.11e-02	4.26
8	15	270	-68.65	-91.96	-91.94	-68.67	0.65	8.17	1.31	1.36	8.11	-0.63
8	15	271	-45.47	-102.52	-102.52	-45.47	-0.38	4.85	-0.50	-0.20	4.54	1.24
8	15	272	-31.24	-124.35	-123.26	-32.33	-10.01	9.63	-5.22	2.36	2.04	7.42
8	15	273	-42.18	-56.25	-42.31	-56.12	1.33	15.38	1.86	2.29	14.95	2.38
8	15	274	-25.35	-81.57	-26.90	-80.02	9.21	3.72	-3.65	0.15	-7.42e-02	3.68
8	15	275	-45.75	-69.79	-45.83	-69.70	-1.41	11.15	1.59	2.43	10.31	2.70
8	15	276	-9.05	-103.73	-11.88	-100.91	16.11	-2.35	-22.81	-2.98	-22.18	3.53
8	15	277	-9.56	-101.49	-13.78	-97.27	19.24	-1.93	-21.22	-2.56	-20.59	3.43
8	15	278	-10.45	-101.06	-15.69	-95.82	21.15	-1.41	-19.87	-2.23	-19.05	3.80
8	15	279	-27.05	-141.09	-139.29	-28.85	-14.22	7.42	-3.26	1.64	2.52	5.33
8	15	280	-37.42	-98.89	-93.74	-42.57	-17.03	5.67	0.67	3.15	3.20	2.50
8	15	281	-46.59	-72.78	-57.23	-62.14	12.86	7.12	-2.20	0.87	4.05	4.38
8	15	282	-48.75	-72.11	-61.87	-58.98	-11.59	9.64	2.03	2.40	9.28	-1.63
8	15	283	-70.97	-133.79	-128.58	-76.18	-17.33	2.37	-5.18	-3.74	0.93	-2.97
8	15	284	-35.71	-71.81	-36.31	-71.21	4.62	13.58	-0.83	3.05e-03	12.75	3.35
8	15	285	-49.99	-99.58	-95.85	-53.72	-13.08	9.89	4.96	7.08	7.78	2.44
8	15	286	-59.96	-67.08	-63.46	-63.59	-3.56	9.29	4.00	4.07	9.21	0.64
8	15	287	-30.27	-84.09	-32.84	-81.52	11.48	4.93	-5.14	0.68	-0.89	4.97
8	15	288	-34.00	-93.46	-85.39	-42.07	20.37	2.09	-7.88	-7.30	1.51	-2.32
8	15	289	-35.36	-75.94	-41.07	-70.24	14.11	4.34	-7.71	-1.11	-2.25	6.00
8	15	290	-54.53	-76.81	-69.96	-61.39	10.28	8.08	2.15	2.80	7.44	1.85
8	15	291	-26.09	-94.12	-80.69	-39.52	27.08	2.26	-9.14	-8.74	1.87	2.09
8	15	292	-26.90	-170.47	-165.13	-32.24	27.16	-1.86	-5.92	-5.22	-2.56	1.53
8	15	293	-47.30	-72.17	-47.90	-71.57	3.83	8.51	1.33	2.53	7.31	2.67
8	15	294	-26.81	-99.70	-96.16	-30.36	15.69	-0.60	-5.56	-5.37	-0.79	-0.94
8	15	295	-20.42	-99.35	-98.09	-21.68	9.88	-0.65	-5.52	-5.38	-0.79	-0.80
8	15	296	-13.66	-99.81	-99.24	-14.24	7.01	-0.45	-4.97	-4.84	-0.59	-0.76
8	15	297	-6.96	-101.19	-100.97	-7.18	4.57	-1.61e-02	-3.98	-3.84	-0.15	-0.72
8	15	298	-3.70	-105.86	-105.74	-3.81	3.45	0.11	-2.99	-2.94	6.39e-02	-0.36
8	15	299	-42.42	-95.59	-95.57	-42.44	-1.06	2.06	-8.08	-5.37	-0.65	-4.49
8	15	300	-21.85	-100.86	-93.32	-29.39	-23.22	2.99	-2.22	0.29	0.48	-2.60
8	15	301	-19.85	-102.30	-95.62	-26.53	-22.50	2.93	-1.45	0.91	0.57	-2.19
8	15	302	-17.60	-102.67	-97.44	-22.84	-20.45	3.18	-0.99	1.57	0.62	-2.03
8	15	303	-14.23	-102.97	-99.65	-17.54	-16.83	3.53	-0.91	2.09	0.52	-2.08
8	15	304	-8.31	-108.70	-107.38	-9.62	-11.42	3.79	-0.88	2.60	0.31	-2.03
8	15	305	-5.29	-121.42	-120.82	-5.88	-8.30	4.49	-1.28	3.02	0.19	-2.52
8	15	306	-26.03	-99.10	-98.70	-26.43	-5.37	14.37	3.41	14.30	3.48	-0.88
8	15	307	-23.20	-101.05	-100.77	-23.47	-4.63	16.75	2.91	16.75	2.92	-0.34
8	15	308	-20.12	-102.27	-102.14	-20.25	-3.38	18.61	2.57	18.59	2.59	-0.46
8	15	309	-16.33	-105.03	-105.00	-16.36	-1.63	20.43	2.76	20.42	2.77	-0.50
8	15	310	-9.60	-110.62	-110.62	-9.60	-3.31e-02	22.36	1.98	22.35	1.99	-0.52
8	15	311	-7.19	-132.63	-132.63	-7.20	0.56	24.33	1.20	24.32	1.21	-0.48
8	15	312	-23.57	-106.09	-105.02	-24.64	9.33	8.32	3.68	7.87	4.13	1.38
8	15	313	-21.01	-106.69	-105.30	-22.41	10.83	8.73	1.62	8.60	1.75	0.93
8	15	314	-18.08	-106.57	-105.09	-19.57	11.37	9.35	1.29	9.29	1.35	0.65
8	15	315	-13.69	-108.02	-106.68	-15.03	11.18	10.10	1.42	10.05	1.47	0.65
8	15	316	-7.39	-111.97	-111.11	-8.25	9.46	10.84	1.00	10.79	1.06	0.72
8	15	317	-4.52	-120.51	-119.97	-5.07	7.92	11.76	0.59	11.60	0.75	1.32
8	15	318	-25.04	-112.54	-111.68	-25.90	8.60	6.08	3.15	6.05	3.18	-0.28
8	15	319	-24.65	-99.86	-99.35	-25.16	6.15	5.28	0.52	5.12	0.67	-0.85
8	15	320	-21.29	-98.03	-98.01	-21.31	1.31	4.62	0.10	4.43	0.28	-0.89
8	15	321	-14.79	-100.00	-99.97	-14.82	-1.54	4.32	0.27	3.98	0.61	-1.11
8	15	322	-3.70	-88.02	-3.80	-87.91	-3.01	6.68	-5.48	-0.20	1.40	6.02
8	15	323	-26.36	-86.14	-73.33	-39.17	24.53	2.25	-10.85	-8.63	2.96e-02	4.92
8	15	324	-28.87	-95.87	-95.49	-29.25	-5.03	12.72	2.83	12.02	3.53	-2.54
8	15	325	-15.14	-89.75	-15.32	-89.57	3.69	4.71	-4.40	-1.11	1.42	4.38
8	15	326	-30.20	-71.51	-57.82	-43.89	19.44	1.02	-11.33	-7.27	-3.05	5.80
8	15	327	-7.60	-101.73	-101.66	-7.67	-2.55	3.94	8.83e-02	3.54	0.49	-1.18
8	15	328	-4.51	-107.64	-107.57	-4.58	-2.64	3.63	-0.11	3.26	0.26	-1.12
8	15	329	-24.40	-98.82	-91.13	-32.09	-22.65	3.30	-2.87	0.34	9.50e-02	-3.09
8	15	330	-25.96	-117.43	-110.14	-33.25	24.77	-1.14	-4.97	-4.91	-1.20	-0.49

8	15	331	-27.79	-93.13	-86.53	-34.38	-19.68	5.29	-2.33	1.54	1.42	-3.81
8	15	332	-34.08	-89.93	-89.71	-34.30	-3.52	13.18	2.60	10.99	4.79	-4.29
8	15	333	-38.30	-79.66	-75.69	-42.27	-12.19	13.29	-1.55	2.98	8.76	-6.84
8	15	334	-44.67	-75.89	-75.84	-44.72	-1.29	14.25	7.24	12.79	8.71	-2.85
8	15	335	-37.77	-59.12	-38.78	-58.11	-4.53	18.32	-0.31	0.39	17.62	-3.54
8	15	336	-45.18	-59.00	-45.21	-58.97	0.67	12.16	1.90	2.10	11.96	1.44
8	15	337	-2.42	-52.73	-2.85	-52.31	-4.61	24.51	-0.52	0.48	23.51	4.89
8	15	338	-13.00	-75.72	-13.12	-75.61	-2.69	17.58	-0.90	-0.14	16.82	3.67
8	15	339	-7.99	-91.37	-8.00	-91.36	-0.96	5.95	-4.55	-0.57	1.96	5.09
8	15	340	-25.98	-75.14	-26.03	-75.10	1.45	13.08	-1.91	-1.01	12.18	3.56
8	15	341	-1.92	-111.38	-2.07	-111.24	4.03	-1.05	-28.55	-1.96	-27.64	4.92
8	15	342	-4.47	-109.27	-4.82	-108.91	6.06	-1.89	-26.05	-2.68	-25.26	4.29
8	15	343	-7.75	-103.72	-9.07	-102.40	11.15	-2.53	-23.83	-3.32	-23.05	4.01
8	15	344	-27.20	-103.60	-102.77	-28.03	7.92	6.72	5.51	5.51	6.72	2.84e-02
8	15	345	-11.85	-100.63	-17.41	-95.07	21.50	-1.05	-18.57	-2.20	-17.41	4.35
8	15	346	-33.21	-93.99	-93.22	-33.98	6.79	9.16	-0.53	4.82	3.81	-4.82
8	15	347	-16.49	-90.26	-21.88	-84.87	19.20	-1.19	-15.74	-2.97	-13.96	4.78
8	15	348	-41.07	-82.16	-80.79	-42.45	7.40	3.86	2.52	2.55	3.83	-0.20
8	15	349	-51.33	-62.52	-56.46	-57.40	5.58	12.65	-2.84	-0.33	10.14	5.70
8	15	350	-21.09	-86.60	-22.04	-85.66	7.81	4.03	-3.48	-0.71	1.26	3.62
8	15	351	-21.61	-64.21	-32.00	-53.82	18.29	-2.32	-10.28	-4.64	-7.95	3.62
8	15	352	-26.96	-118.15	-118.14	-26.97	1.16	7.94	3.65	5.77	5.82	2.15
8	38	1	-6.29	-106.85	-105.63	-7.52	-11.02	-0.60	-17.00	-16.83	-0.77	-1.64
8	38	2	-38.64	-50.70	-38.74	-50.60	1.10	18.92	-2.46	-2.24	18.70	-2.18
8	38	3	-4.87	-100.47	-100.43	-4.92	2.09	0.22	-2.09	-2.06	0.18	0.28
8	38	5	-51.33	-84.63	-84.58	-51.37	-1.16	-2.93	-8.19	-7.16	-3.96	2.09
8	38	6	-44.82	-61.12	-61.11	-44.82	-0.22	8.30	-2.55	-2.38	8.13	1.35
8	38	7	-6.14	-96.91	-96.74	-6.31	3.94	-0.74	-14.29	-14.29	-0.74	-2.43e-02
8	38	8	-78.66	-173.35	-172.55	-79.46	8.69	-5.15	-13.77	-9.72	-9.20	-4.30
8	38	9	-5.78	-40.03	-37.36	-8.44	-9.17	-0.48	-2.01	-1.95	-0.54	0.30
8	38	10	8.65	-18.96	-7.65	-2.66	13.58	0.46	-4.55	-1.87	-2.22	-2.50
8	38	11	-4.98	-108.60	-10.50	-103.08	23.29	-3.64	-30.56	-3.70	-30.50	1.30
8	38	12	-6.24	-114.20	-6.71	-113.73	7.11	-2.75	-39.47	-2.82	-39.40	1.63
8	38	27	-40.13	-93.25	-88.91	-44.46	-14.54	0.25	-7.02	-3.05	-3.71	-3.62
8	38	37	-11.41	-64.95	-15.66	-60.69	14.48	-2.35	-10.76	-2.35	-10.76	-9.98e-03
8	38	47	-16.71	-99.16	-21.53	-94.34	19.35	-2.65	-21.04	-2.72	-20.97	1.12
8	38	57	-13.74	-109.02	-20.48	-102.29	24.41	-3.03	-26.48	-3.13	-26.37	1.56
8	38	61	-8.38	-108.57	-15.08	-101.87	25.03	-3.34	-28.42	-3.43	-28.34	1.45
8	38	68	-3.17	-109.73	-7.24	-105.66	20.41	-3.77	-32.66	-3.83	-32.60	1.31
8	38	72	-4.28	-108.00	-6.66	-105.62	15.53	-4.13	-34.12	-4.21	-34.05	1.50
8	38	76	-35.71	-94.88	-86.33	-44.26	-20.81	-2.89	-10.59	-10.48	-3.01	-0.93
8	38	83	-18.43	-102.33	-96.55	-24.20	21.25	-2.59	-14.38	-13.86	-3.11	-2.43
8	38	87	-13.92	-91.31	-89.87	-15.36	10.46	-1.45	-15.49	-15.34	-1.60	-1.47
8	38	91	-13.48	-95.78	-95.11	-14.15	7.37	-1.72	-15.92	-15.88	-1.77	-0.79
8	38	95	-12.03	-96.14	-95.64	-12.53	6.45	-1.77	-15.58	-15.58	-1.77	-0.27
8	38	99	-8.71	-97.83	-97.57	-8.97	4.79	-1.29	-14.79	-14.79	-1.29	-0.23
8	38	106	-20.90	-102.31	-101.85	-21.36	6.11	2.23	0.90	1.62	1.50	0.66
8	38	110	-18.34	-99.62	-99.14	-18.82	6.19	1.09	-0.17	0.85	6.85e-02	0.50
8	38	114	-17.55	-98.36	-98.08	-17.84	4.82	0.45	-0.13	0.25	6.03e-02	0.27
8	38	118	-15.23	-99.48	-99.34	-15.38	3.48	0.19	-0.43	-0.39	0.15	0.16
8	38	122	-9.25	-102.00	-101.93	-9.32	2.52	0.21	-1.23	-1.21	0.19	0.17
8	38	129	-25.99	-100.84	-90.53	-36.30	-25.79	-1.45	-13.03	-12.87	-1.60	-1.32
8	38	133	-22.70	-101.57	-92.16	-32.11	-25.57	-1.34	-14.00	-13.85	-1.49	-1.35
8	38	137	-18.69	-101.28	-93.60	-26.37	-23.99	-1.37	-14.66	-14.53	-1.50	-1.31
8	38	141	-14.26	-99.68	-94.58	-19.35	-20.23	-1.55	-15.34	-15.22	-1.68	-1.30
8	38	145	-9.56	-104.12	-101.90	-11.78	-14.30	-1.19	-16.13	-16.03	-1.29	-1.22
8	38	151	-44.06	-83.12	-80.22	-46.96	-10.23	3.71	-8.83	-7.69	2.57	-3.60
8	38	158	-30.89	-102.05	-101.99	-30.94	1.92	10.15	2.55	2.58	10.12	0.50
8	38	162	-28.77	-98.94	-88.89	-38.81	-24.58	-0.93	-12.04	-11.88	-1.09	-1.31
8	38	171	-6.83	-115.45	-7.70	-114.58	9.69	-3.63	-36.70	-3.69	-36.64	1.37
8	38	176	-24.03	-101.89	-101.72	-24.21	3.70	5.08	1.82	2.00	4.90	0.73
8	38	180	-27.82	-170.77	-151.74	-46.86	48.56	-5.53	-13.91	-12.37	-7.07	-3.25
8	38	221	-7.28	-85.26	-79.35	-13.19	20.63	-1.75	-13.33	-13.32	-1.75	0.25
8	38	222	-15.52	-95.84	-87.45	-23.92	24.58	-1.58	-17.67	-17.49	-1.76	1.67
8	38	223	-21.01	-91.06	-84.36	-27.71	20.60	-1.34	-17.00	-16.57	-1.78	2.59
8	38	224	-17.16	-74.03	-70.22	-20.98	14.23	-1.43	-12.84	-12.34	-1.93	2.33
8	38	225	-8.82	-65.74	-65.56	-9.01	3.23	-1.12	-5.27	-5.27	-1.12	-0.16
8	38	226	-5.25	-44.16	-39.87	-9.54	12.18	-1.99	-5.96	-5.75	-2.19	0.87
8	38	239	-33.12	-85.86	-35.26	-83.73	10.40	4.99	-0.49	1.56	2.95	2.65
8	38	270	-68.82	-86.84	-86.82	-68.84	-0.64	7.99	2.88	3.11	7.77	-1.05
8	38	271	-51.23	-97.02	-97.02	-51.23	0.22	4.20	-1.06	-0.65	3.79	1.41
8	38	272	-34.81	-114.27	-113.51	-35.57	-7.71	8.41	-4.75	2.46	1.20	6.55
8	38	273	-44.09	-65.23	-44.89	-64.42	4.05	14.59	1.02	1.25	14.36	1.74
8	38	274	-29.54	-85.27	-31.69	-83.13	10.73	4.86	-0.99	0.49	3.38	2.55
8	38	275	-48.56	-72.32	-48.62	-72.26	1.22	11.12	2.65	2.75	11.03	0.88

8	38	276	-14.37	-103.11	-17.42	-100.06	16.17	-2.04	-18.84	-2.40	-18.48	2.43
8	38	277	-16.78	-101.70	-21.19	-97.30	18.83	-1.68	-17.57	-2.03	-17.22	2.32
8	38	278	-19.23	-101.48	-24.45	-96.27	20.05	-1.08	-16.64	-1.55	-16.17	2.66
8	38	279	-30.78	-127.69	-125.79	-32.68	-13.42	7.14	-3.23	2.72	1.18	5.13
8	38	280	-43.07	-92.50	-88.93	-46.64	-12.80	5.94	-0.43	2.84	2.68	3.18
8	38	281	-53.43	-71.15	-60.74	-63.84	8.72	8.79	1.20	3.82	6.16	3.61
8	38	282	-54.62	-69.56	-62.32	-61.86	-7.47	8.89	2.15	2.53	8.52	-1.54
8	38	283	-70.90	-121.04	-114.73	-77.22	-16.63	1.10	-5.04	-2.76	-1.17	-2.96
8	38	284	-37.85	-75.04	-39.20	-73.69	6.96	13.22	-0.33	0.57	12.31	3.38
8	38	285	-52.36	-93.27	-89.95	-55.69	-11.18	10.15	4.82	8.03	6.94	2.61
8	38	286	-61.94	-67.55	-64.21	-65.28	-2.76	9.81	6.86	6.90	9.77	0.34
8	38	287	-36.52	-85.36	-88.74	-83.14	10.17	5.80	-1.46	2.40	1.94	3.63
8	38	288	-39.32	-87.30	-82.30	-44.32	14.67	2.84	-7.67	-6.39	1.56	-3.43
8	38	289	-43.40	-75.46	-46.63	-72.22	9.66	6.43	-4.69	1.35	0.38	5.54
8	38	290	-58.30	-74.98	-70.92	-62.36	7.16	8.83	5.06	5.40	8.49	1.08
8	38	291	-34.84	-89.51	-81.64	-42.70	19.18	2.75	-7.53	-7.43	2.65	1.00
8	38	292	-30.47	-150.09	-146.99	-33.57	19.01	-2.68	-4.51	-3.45	-3.74	0.90
8	38	293	-51.06	-73.84	-51.62	-73.28	3.53	9.58	4.41	4.91	9.08	1.53
8	38	294	-27.23	-93.80	-92.49	-28.54	9.24	-0.93	-4.94	-4.72	-1.15	-0.90
8	38	295	-19.32	-95.38	-95.03	-19.67	5.14	-0.73	-5.08	-4.95	-0.86	-0.73
8	38	296	-12.45	-96.35	-96.20	-12.61	3.59	-0.50	-4.74	-4.62	-0.62	-0.70
8	38	297	-6.18	-97.57	-97.51	-6.24	2.43	-8.53e-02	-4.01	-3.89	-0.21	-0.68
8	38	298	-3.14	-100.85	-100.81	-3.18	1.96	4.16e-02	-3.31	-3.27	-5.21e-05	-0.37
8	38	299	-44.32	-86.00	-85.85	-44.47	-2.46	1.99	-8.90	-5.05	-1.86	-5.20
8	38	300	-25.98	-96.60	-91.79	-30.79	-17.79	1.71	-2.32	-0.73	0.13	-1.97
8	38	301	-22.56	-98.10	-93.65	-27.01	-17.79	1.67	-1.80	-0.38	0.25	-1.70
8	38	302	-18.91	-98.70	-95.12	-22.49	-16.52	1.77	-1.46	1.22e-02	0.30	-1.61
8	38	303	-14.46	-99.15	-96.87	-16.73	-13.70	1.92	-1.39	0.32	0.22	-1.65
8	38	304	-8.05	-104.10	-103.20	-8.95	-9.28	2.01	-1.28	0.62	0.11	-1.62
8	38	305	-4.79	-114.06	-113.64	-5.21	-6.73	2.56	-1.66	0.84	6.11e-02	-2.08
8	38	306	-27.82	-95.44	-95.16	-28.09	-4.33	13.41	2.69	13.36	2.74	-0.75
8	38	307	-23.95	-97.23	-96.98	-24.20	-4.30	15.13	2.37	15.11	2.39	-0.41
8	38	308	-19.85	-98.32	-98.16	-20.01	-3.52	16.50	2.20	16.49	2.22	-0.50
8	38	309	-15.39	-100.53	-100.48	-15.44	-2.04	17.86	2.36	17.84	2.38	-0.52
8	38	310	-8.80	-104.96	-104.95	-8.80	-0.50	19.28	1.66	19.27	1.68	-0.54
8	38	311	-6.27	-122.10	-122.10	-6.27	0.15	20.80	0.99	20.79	1.00	-0.55
8	38	312	-26.23	-100.19	-99.69	-26.74	6.07	7.68	2.83	7.51	3.00	0.89
8	38	313	-22.26	-100.86	-100.23	-22.89	7.04	8.28	1.35	8.23	1.40	0.55
8	38	314	-18.25	-100.88	-100.18	-18.94	7.55	8.92	1.22	8.90	1.23	0.36
8	38	315	-13.37	-102.13	-101.46	-14.04	7.69	9.58	1.32	9.56	1.34	0.36
8	38	316	-7.08	-105.26	-104.79	-7.55	6.77	10.20	0.93	10.18	0.95	0.43
8	38	317	-4.17	-111.97	-111.66	-4.49	5.81	10.98	0.58	10.90	0.66	0.94
8	38	318	-26.92	-104.97	-104.41	-27.47	6.56	5.18	1.63	5.17	1.63	0.17
8	38	319	-24.47	-95.45	-95.24	-24.68	3.86	4.25	4.12e-03	4.17	7.88e-02	-0.56
8	38	320	-19.74	-94.92	-94.92	-19.74	-0.27	3.70	-3.51e-02	3.56	0.10	-0.70
8	38	321	-13.20	-96.89	-96.83	-13.26	-2.30	3.42	0.16	3.14	0.43	-0.91
8	38	322	-4.72	-89.20	-4.73	-89.20	-0.65	6.35	-2.07	0.25	4.03	3.76
8	38	323	-36.28	-82.56	-75.91	-42.92	16.23	3.06	-9.11	-7.35	1.30	4.28
8	38	324	-31.60	-92.87	-92.69	-31.79	-3.37	12.15	2.26	11.74	2.67	-1.96
8	38	325	-18.14	-90.72	-18.75	-90.11	6.62	5.22	-1.95	-0.14	3.41	3.12
8	38	326	-40.90	-68.45	-61.90	-47.46	11.73	2.56	-10.25	-6.19	-1.49	5.96
8	38	327	-6.63	-98.33	-98.26	-6.70	-2.58	3.05	2.89e-02	2.71	0.37	-0.95
8	38	328	-3.76	-102.36	-102.30	-3.81	-2.35	2.73	-0.11	2.42	0.20	-0.88
8	38	329	-29.77	-94.64	-90.05	-34.36	-16.63	1.84	-2.71	-0.64	-0.23	-2.26
8	38	330	-29.60	-106.14	-102.36	-33.38	16.57	-1.72	-4.05	-3.74	-2.03	-0.79
8	38	331	-34.35	-89.39	-85.97	-37.76	-13.28	3.16	-2.14	0.45	0.57	-2.65
8	38	332	-37.55	-87.89	-87.85	-37.59	-1.42	11.98	2.11	10.73	3.37	-3.29
8	38	333	-45.94	-78.01	-77.08	-46.86	-5.37	9.21	-1.34	1.78	6.09	-4.81
8	38	334	-48.02	-75.30	-75.21	-48.11	1.56	13.51	5.96	12.68	6.79	-2.36
8	38	335	-42.18	-62.42	-42.47	-62.13	2.38	14.89	0.27	1.03	14.13	-3.24
8	38	336	-46.66	-63.37	-47.98	-62.05	4.51	10.77	4.72	4.88	10.62	0.95
8	38	337	-5.36	-66.90	-5.39	-66.88	1.28	20.50	0.75	1.19	20.05	2.92
8	38	338	-15.72	-78.86	-15.84	-78.74	2.77	15.61	0.98	1.17	15.42	1.66
8	38	339	-9.90	-93.07	-9.95	-93.02	1.96	5.80	-1.61	0.20	3.99	3.18
8	38	340	-29.35	-77.75	-29.99	-77.11	5.52	12.57	0.33	0.95	11.96	2.68
8	38	341	-2.75	-107.37	-2.90	-107.22	3.97	-0.94	-22.86	-1.44	-22.36	3.26
8	38	342	-6.34	-107.11	-6.75	-106.70	6.40	-1.64	-21.17	-2.03	-20.78	2.74
8	38	343	-11.33	-102.75	-12.84	-101.24	11.67	-2.16	-19.67	-2.60	-19.23	2.74
8	38	344	-30.27	-97.91	-97.49	-30.69	5.32	5.32	4.62	5.28	4.65	0.15
8	38	345	-21.64	-100.69	-26.62	-95.71	19.21	-0.37	-15.93	-1.19	-15.10	3.49
8	38	346	-36.19	-90.33	-89.71	-36.80	5.74	7.49	-4.89e-02	4.73	2.71	-3.63
8	38	347	-26.45	-90.01	-30.25	-86.21	15.05	0.22	-14.17	-1.61	-12.35	4.79
8	38	348	-44.99	-80.22	-78.65	-46.56	7.27	3.51	2.27	2.91	2.87	-0.62
8	38	349	-51.72	-66.04	-57.04	-60.72	6.92	10.74	-1.70	0.50	8.54	4.75
8	38	350	-24.73	-88.63	-26.26	-87.10	9.79	5.14	-1.68	-0.16	3.62	2.84

8	38	351	-31.95	-62.31	-37.92	-56.34	12.07	-0.79	-10.33	-4.04	-7.08	4.53
8	38	352	-29.75	-109.42	-109.38	-29.79	1.67	6.51	2.06	5.02	3.55	2.10
8	46	1	-5.17	-91.98	-91.21	-5.94	-8.15	-0.15	-8.96	-8.79	-0.32	-1.22
8	46	2	-37.77	-82.85	-40.05	-80.57	9.88	13.84	0.54	1.08	13.31	-2.62
8	46	3	-4.27	-98.21	-98.19	-4.28	1.16	0.11	-2.27	-2.23	7.12e-02	0.31
8	46	5	-50.29	-81.22	-81.21	-50.30	-0.46	-1.83	-8.58	-7.44	-2.97	2.53
8	46	6	-48.05	-61.51	-60.95	-48.61	2.69	5.77	-4.82	-4.67	5.62	1.27
8	46	7	-6.25	-98.82	-98.72	-6.35	2.95	-1.17	-20.13	-20.13	-1.17	-0.16
8	46	8	-57.22	-162.02	-162.01	-57.23	-0.99	-7.47	-17.48	-13.51	-11.45	-4.90
8	46	9	2.72	-42.03	-35.15	-4.16	-16.14	-0.27	-2.03	-1.69	-0.61	0.69
8	46	10	11.83	-20.53	-8.76	5.50e-02	15.57	0.58	-4.60	-2.13	-1.88	-2.59
8	46	11	-5.13	-110.97	-19.13	-96.97	35.86	-2.89	-27.42	-3.20	-27.11	2.75
8	46	12	-5.53	-110.27	-7.10	-108.70	12.69	-2.23	-35.71	-2.38	-35.57	2.17
8	46	27	-30.65	-94.11	-82.22	-42.54	-24.76	-0.46	-7.59	-4.02	-4.03	-3.56
8	46	37	-9.91	-61.17	-18.74	-52.34	19.36	-2.26	-8.67	-2.28	-8.65	0.34
8	46	47	-16.50	-97.56	-28.26	-85.79	28.55	-2.15	-17.90	-2.39	-17.66	1.91
8	46	57	-13.13	-110.07	-28.87	-94.33	35.75	-2.35	-22.98	-2.70	-22.63	2.66
8	46	61	-7.95	-110.80	-24.06	-94.70	37.38	-2.60	-24.98	-2.95	-24.63	2.77
8	46	68	-4.07	-111.67	-15.01	-100.72	32.52	-3.05	-29.98	-3.31	-29.72	2.61
8	46	72	-5.14	-108.55	-12.33	-101.36	26.31	-3.41	-31.51	-3.64	-31.28	2.52
8	46	76	-47.23	-82.72	-77.46	-52.48	-12.61	-1.50	-5.22	-5.21	-1.50	-0.10
8	46	83	-5.97	-97.96	-95.30	-8.63	15.42	-3.50	-18.25	-17.78	-3.97	-2.58
8	46	87	-5.85	-90.95	-90.48	-6.31	6.28	-2.05	-19.78	-19.64	-2.19	-1.54
8	46	91	-8.67	-97.05	-96.84	-8.87	4.26	-2.32	-20.70	-20.66	-2.36	-0.85
8	46	95	-9.63	-97.94	-97.75	-9.82	4.13	-2.43	-20.75	-20.74	-2.43	-0.35
8	46	99	-8.19	-100.58	-100.47	-8.31	3.29	-1.85	-20.33	-20.33	-1.86	-0.33
8	46	106	-19.66	-96.38	-96.35	-19.69	1.61	0.22	-0.41	-0.27	8.13e-02	0.26
8	46	110	-16.40	-94.68	-94.64	-16.44	1.77	-5.36e-02	-0.68	-0.46	-0.28	0.30
8	46	114	-14.83	-94.25	-94.24	-14.84	0.78	-8.42e-02	-0.80	-0.75	-0.14	0.19
8	46	118	-12.38	-95.67	-95.67	-12.38	0.11	-2.67e-02	-1.16	-1.14	-4.72e-02	0.15
8	46	122	-7.52	-98.07	-98.06	-7.53	0.56	5.96e-02	-1.71	-1.68	2.68e-02	0.24
8	46	129	-35.05	-88.61	-81.01	-42.65	-18.69	-0.71	-6.65	-6.60	-0.76	-0.54
8	46	133	-28.63	-88.81	-81.98	-35.46	-19.09	-0.62	-7.14	-7.07	-0.69	-0.67
8	46	137	-21.40	-88.10	-82.66	-26.83	-18.25	-0.64	-7.48	-7.40	-0.72	-0.73
8	46	141	-14.37	-86.56	-83.02	-17.90	-15.57	-0.76	-7.87	-7.78	-0.85	-0.79
8	46	145	-8.32	-89.28	-87.79	-9.81	-10.88	-0.55	-8.33	-8.24	-0.63	-0.81
8	46	151	-57.21	-73.36	-73.26	-57.31	-1.29	1.63	-4.12	-3.75	1.26	-1.41
8	46	158	-35.60	-96.50	-96.41	-35.70	-2.35	5.66	-0.10	-7.15e-02	5.63	-0.43
8	46	162	-40.09	-87.07	-79.84	-47.32	-16.95	-0.49	-6.05	-6.02	-0.52	-0.41
8	46	171	-7.38	-115.50	-10.26	-112.62	17.39	-3.06	-33.79	-3.19	-33.66	1.99
8	46	176	-24.18	-95.73	-95.71	-24.21	-1.40	1.64	-0.55	-0.53	1.62	0.22
8	46	180	-12.94	-157.62	-146.07	-24.48	39.21	-7.32	-18.19	-16.78	-8.73	-3.66
8	46	221	1.60	-78.81	-76.88	-0.34	12.32	-2.19	-13.83	-13.83	-2.19	-1.24e-02
8	46	222	-3.21	-90.05	-86.38	-6.88	17.47	-2.10	-18.40	-18.35	-2.14	0.87
8	46	223	-7.18	-87.19	-84.14	-10.23	15.32	-1.94	-17.77	-17.62	-2.10	1.56
8	46	224	-5.26	-73.28	-71.35	-7.20	11.30	-2.04	-13.66	-13.52	-2.18	1.27
8	46	225	-1.37	-62.10	-61.75	-1.72	-4.60	-1.37	-5.30	-5.29	-1.37	0.16
8	46	226	0.69	-46.40	-42.87	-2.84	12.39	-2.13	-6.66	-6.66	-2.13	6.15e-02
8	46	239	-31.22	-86.54	-38.77	-78.99	18.99	6.75	-0.72	1.02	5.02	3.16
8	46	270	-55.06	-84.94	-83.68	-56.33	-6.01	6.63	-0.39	4.89e-02	6.19	-1.69
8	46	271	-53.61	-92.27	-92.22	-53.66	-1.34	3.17	-2.16	-1.92	2.93	1.09
8	46	272	-30.72	-108.10	-107.36	-31.46	-7.53	5.92	-5.45	0.77	-0.29	5.66
8	46	273	-42.99	-72.11	-46.95	-68.15	9.97	14.49	-0.21	7.91e-02	14.20	2.04
8	46	274	-28.32	-88.92	-35.58	-81.65	19.69	8.94	-0.97	0.77	7.20	3.77
8	46	275	-47.32	-70.84	-50.03	-68.13	7.51	10.73	1.52	1.55	10.70	0.51
8	46	276	-13.68	-105.69	-22.75	-96.62	27.43	-0.31	-15.64	-1.41	-14.55	3.95
8	46	277	-15.13	-104.36	-26.98	-92.50	30.29	-0.29	-14.61	-1.49	-13.41	3.96
8	46	278	-16.95	-103.12	-30.24	-89.82	31.13	-0.11	-13.94	-1.39	-12.67	4.00
8	46	279	-23.24	-122.33	-119.68	-25.89	-15.97	4.60	-5.28	-2.11e-02	-0.66	4.93
8	46	280	-41.24	-86.36	-83.95	-43.65	-10.14	5.21	-1.97	1.41	1.82	3.59
8	46	281	-48.11	-68.27	-61.48	-54.90	9.53	7.44	0.25	1.94	5.75	3.05
8	46	282	-56.13	-62.94	-60.88	-58.19	-3.12	7.51	1.60	1.71	7.40	-0.81
8	46	283	-50.07	-118.36	-108.29	-60.13	-24.21	-0.67	-8.57	-6.09	-3.14	-3.66
8	46	284	-38.44	-79.20	-42.39	-75.25	12.05	15.51	0.25	2.13	13.63	5.02
8	46	285	-44.99	-89.60	-86.21	-48.39	-11.83	7.64	2.53	4.85	5.32	2.54
8	46	286	-58.19	-63.92	-63.52	-58.59	-1.46	8.94	5.63	5.69	8.88	0.44
8	46	287	-34.97	-83.41	-42.02	-76.37	17.08	6.38	-1.49	1.65	3.24	3.86
8	46	288	-34.07	-80.86	-79.97	-34.95	6.38	1.71	-9.89	-8.30	0.12	-3.99
8	46	289	-40.91	-71.88	-49.20	-63.59	13.72	5.89	-4.75	0.19	0.95	5.31
8	46	290	-51.26	-71.24	-70.03	-52.47	4.76	7.36	2.73	2.78	7.32	0.46
8	46	291	-28.09	-84.31	-80.92	-31.48	13.38	1.73	-9.35	-9.35	1.73	6.49e-02
8	46	292	-21.63	-141.76	-140.40	-23.00	12.73	-5.33	-6.88	-6.67	-5.54	0.53
8	46	293	-49.79	-70.15	-53.14	-66.80	7.54	9.36	3.63	4.02	8.97	1.45
8	46	294	-21.50	-91.64	-91.24	-21.90	5.31	-1.77	-8.53	-8.46	-1.84	-0.68
8	46	295	-14.82	-94.85	-94.78	-14.89	2.33	-1.28	-8.96	-8.93	-1.31	-0.51

8	46	296	-9.48	-96.31	-96.27	-9.52	1.74	-1.10	-8.92	-8.89	-1.13	-0.50
8	46	297	-4.61	-98.24	-98.22	-4.64	1.53	-0.56	-8.57	-8.53	-0.59	-0.53
8	46	298	-2.11	-100.44	-100.42	-2.13	1.56	-0.25	-8.29	-8.29	-0.25	-0.16
8	46	299	-36.47	-84.98	-81.63	-39.82	-12.29	1.04	-10.39	-6.48	-2.87	-5.43
8	46	300	-31.59	-87.12	-83.42	-35.29	-13.86	4.43	0.34	4.23	0.53	-0.87
8	46	301	-26.20	-88.38	-84.84	-29.74	-14.41	4.64	0.46	4.47	0.63	-0.83
8	46	302	-20.63	-88.64	-85.78	-23.50	-13.67	4.88	0.48	4.69	0.66	-0.89
8	46	303	-14.88	-88.69	-86.89	-16.68	-11.39	5.08	0.38	4.87	0.60	-0.98
8	46	304	-8.03	-91.86	-91.18	-8.71	-7.51	5.29	0.14	5.07	0.35	-1.04
8	46	305	-4.64	-99.29	-99.00	-4.93	-5.21	5.68	-0.19	5.30	0.20	-1.45
8	46	306	-30.51	-89.62	-89.04	-31.09	-5.83	15.41	2.27	15.41	2.27	-0.11
8	46	307	-25.26	-91.39	-90.81	-25.84	-6.21	16.13	1.97	16.13	1.97	-0.16
8	46	308	-19.96	-92.16	-91.73	-20.39	-5.56	16.84	1.97	16.84	1.98	-0.28
8	46	309	-14.69	-93.73	-93.54	-14.88	-3.88	17.65	2.14	17.65	2.14	-0.29
8	46	310	-8.08	-96.89	-96.86	-8.12	-1.67	18.56	1.48	18.55	1.48	-0.28
8	46	311	-5.34	-108.85	-108.84	-5.34	-0.55	19.62	0.85	19.62	0.85	-0.12
8	46	312	-28.94	-96.00	-96.00	-28.94	2.16e-02	5.40	1.29	5.34	1.35	0.49
8	46	313	-23.62	-96.83	-96.82	-23.64	0.96	5.58	0.51	5.57	0.52	0.25
8	46	314	-18.68	-96.98	-96.94	-18.72	1.75	5.97	0.67	5.96	0.67	0.21
8	46	315	-13.23	-98.16	-98.09	-13.30	2.53	6.39	0.74	6.38	0.76	0.27
8	46	316	-6.75	-101.35	-101.24	-6.85	3.18	6.83	0.53	6.81	0.55	0.37
8	46	317	-3.53	-105.26	-105.15	-3.64	3.38	7.39	0.33	7.27	0.44	0.88
8	46	318	-23.59	-97.66	-97.45	-23.80	3.90	4.32	0.23	4.21	0.34	0.65
8	46	319	-20.32	-90.21	-90.17	-20.36	1.63	3.51	-0.28	3.49	-0.26	-0.25
8	46	320	-15.66	-90.85	-90.81	-15.70	-1.78	3.19	2.98e-02	3.14	8.24e-02	-0.40
8	46	321	-10.32	-93.20	-93.09	-10.43	-3.03	2.97	0.30	2.85	0.43	-0.56
8	46	322	-6.94	-106.61	-7.17	-106.38	4.79	12.03	1.22	1.64	11.60	2.10
8	46	323	-28.25	-79.84	-76.27	-31.81	13.08	1.72	-10.03	-9.09	0.78	3.19
8	46	324	-35.85	-87.08	-86.72	-36.21	-4.29	14.69	2.26	14.64	2.31	-0.81
8	46	325	-19.71	-94.25	-23.13	-90.84	15.58	9.52	0.27	2.27	7.52	3.81
8	46	326	-33.07	-67.96	-63.68	-37.35	11.44	1.29	-10.39	-7.54	-1.56	5.02
8	46	327	-5.28	-94.42	-94.36	-5.34	-2.34	2.62	0.21	2.47	0.35	-0.56
8	46	328	-3.28	-99.61	-99.59	-3.31	-1.55	2.23	8.18e-02	2.16	0.15	-0.38
8	46	329	-37.23	-85.27	-81.99	-40.51	-12.12	4.44	4.54e-02	4.22	0.26	-0.95
8	46	330	-24.20	-101.01	-99.30	-25.91	11.34	-3.10	-7.32	-7.13	-3.29	-0.88
8	46	331	-44.18	-80.39	-78.43	-46.13	-8.18	5.28	0.38	5.04	0.63	-1.07
8	46	332	-43.18	-82.34	-82.28	-43.25	-1.62	13.46	2.40	13.17	2.70	-1.79
8	46	333	-57.81	-71.54	-71.53	-57.82	0.25	8.07	2.78	6.08	4.78	-2.56
8	46	334	-53.51	-71.82	-71.48	-53.85	2.45	16.22	5.90	16.02	6.10	-1.43
8	46	335	-40.94	-75.05	-43.28	-72.71	8.62	14.11	4.98	6.21	12.89	-3.11
8	46	336	-47.29	-69.84	-50.15	-66.98	7.51	12.20	9.59	10.70	11.08	1.29
8	46	337	-9.42	-103.12	-10.16	-102.38	8.28	20.92	3.42	3.44	20.90	-0.65
8	46	338	-18.28	-89.09	-19.61	-87.75	9.64	17.14	4.72	4.73	17.14	-0.33
8	46	339	-11.88	-100.54	-12.85	-99.56	9.23	9.85	1.46	2.14	9.16	2.29
8	46	340	-32.04	-83.00	-34.87	-80.18	11.66	15.06	4.09	5.09	14.06	3.15
8	46	341	-3.32	-110.32	-4.13	-109.51	9.28	-6.65e-02	-17.07	-0.68	-16.45	3.18
8	46	342	-7.10	-109.59	-9.04	-107.65	13.96	-0.48	-16.64	-1.04	-16.08	2.96
8	46	343	-11.33	-104.43	-16.91	-98.85	22.10	-0.42	-16.24	-1.37	-15.29	3.76
8	46	344	-33.30	-93.04	-93.03	-33.31	-0.95	3.68	2.22	3.47	2.42	0.51
8	46	345	-19.72	-100.46	-32.06	-88.12	29.05	0.35	-13.70	-1.23	-12.12	4.44
8	46	346	-40.41	-85.01	-84.91	-40.51	2.12	5.97	0.98	4.75	2.20	-2.15
8	46	347	-25.13	-87.25	-34.79	-77.59	22.50	0.62	-12.61	-1.87	-10.12	5.17
8	46	348	-49.81	-78.10	-76.95	-50.95	5.57	3.75	1.97	3.17	2.55	-0.84
8	46	349	-52.72	-69.54	-58.61	-63.66	8.02	10.51	-1.08	1.52	7.91	4.83
8	46	350	-25.08	-92.43	-30.67	-86.84	18.59	9.83	-0.87	1.32	7.64	4.32
8	46	351	-28.93	-59.82	-41.27	-47.48	15.13	-1.11	-9.48	-4.67	-5.93	4.13
8	46	352	-26.70	-101.83	-101.83	-26.71	-0.22	5.27	8.14e-02	4.17	1.19	2.13
8	58	1	-6.68	-104.84	-103.74	-7.79	-10.36	-0.66	-15.34	-15.33	-0.67	-0.37
8	58	2	-23.12	-45.26	-41.19	-27.19	8.58	1.30	-4.13	0.63	-3.46	-1.78
8	58	3	-4.90	-108.02	-108.02	-4.91	0.74	0.65	4.40e-02	0.51	0.18	0.25
8	58	5	-45.14	-78.03	-77.69	-45.48	-3.33	-7.95	-13.77	-13.11	-8.61	1.85
8	58	6	-47.56	-59.25	-58.92	-47.89	-1.93	-2.75	-14.04	-13.96	-2.82	0.92
8	58	7	-6.58	-97.85	-97.83	-6.59	1.12	-1.09	-17.82	-17.81	-1.11	-0.44
8	58	8	-71.73	-142.52	-142.36	-71.89	-3.36	-7.58	-19.73	-10.47	-16.83	-5.18
8	58	9	-4.98	-36.29	-31.83	-9.43	-10.94	-0.65	-2.29	-1.84	-1.09	-0.73
8	58	10	-10.26	-21.11	-20.49	-10.87	2.51	-1.16	-2.39	-1.97	-1.58	0.58
8	58	11	-35.12	-96.50	-38.01	-93.61	13.00	-2.09	-23.99	-2.53	-23.55	3.07
8	58	12	-4.18	-80.20	-4.46	-79.92	4.65	-1.38	-22.67	-1.39	-22.66	0.51
8	58	27	-41.06	-81.13	-71.40	-50.80	-17.19	-0.93	-11.49	-3.90	-8.52	-4.75
8	58	37	-33.61	-60.44	-34.66	-59.39	5.20	6.47e-02	-11.82	-1.88	-9.87	4.40
8	58	47	-47.14	-92.54	-50.53	-89.15	11.94	-0.63	-19.93	-1.70	-18.87	4.41
8	58	57	-48.05	-101.33	-53.85	-95.53	16.59	-1.45	-22.88	-2.06	-22.27	3.57
8	58	61	-42.89	-99.45	-47.89	-94.46	16.05	-1.89	-23.43	-2.37	-22.96	3.17
8	58	68	-26.81	-95.05	-28.14	-93.71	9.44	-2.23	-25.06	-2.55	-24.74	2.69
8	58	72	-19.16	-92.50	-19.62	-92.04	5.79	-2.55	-25.28	-2.73	-25.10	2.04

8	58	76	3.21	-90.89	-83.93	-3.74	-24.62	-0.43	-10.43	-9.96	-0.90	2.12
8	58	83	-13.41	-90.02	-89.34	-14.10	7.20	-3.37	-14.70	-13.68	-4.39	-3.24
8	58	87	-11.55	-88.40	-88.39	-11.56	1.03	-1.61	-16.21	-15.96	-1.86	-1.90
8	58	91	-12.64	-94.95	-94.94	-12.65	0.78	-1.95	-17.44	-17.36	-2.02	-1.08
8	58	95	-11.38	-96.03	-96.00	-11.41	1.58	-2.12	-17.84	-17.82	-2.14	-0.58
8	58	99	-8.51	-97.90	-97.88	-8.53	1.32	-1.67	-17.77	-17.75	-1.69	-0.56
8	58	106	-16.04	-95.58	-95.58	-16.04	0.25	-0.40	-1.24	-0.92	-0.71	0.41
8	58	110	-13.78	-96.47	-96.47	-13.78	7.84e-02	-0.18	-0.47	-0.26	-0.39	0.13
8	58	114	-13.26	-98.02	-98.01	-13.26	-0.70	0.22	-7.72e-02	0.19	-5.33e-02	-8.03e-02
8	58	118	-11.41	-100.75	-100.75	-11.42	-0.82	0.50	8.79e-02	0.48	0.11	-9.65e-02
8	58	122	-7.32	-104.52	-104.52	-7.32	6.04e-02	0.60	0.16	0.59	0.17	5.58e-02
8	58	129	-15.08	-106.81	-93.60	-28.29	-32.20	-1.23	-12.78	-12.63	-1.38	1.32
8	58	133	-18.08	-108.64	-96.29	-30.44	-31.09	-1.33	-13.74	-13.66	-1.42	1.02
8	58	137	-17.49	-107.59	-97.74	-27.34	-28.12	-1.36	-14.28	-14.23	-1.41	0.75
8	58	141	-14.24	-103.85	-97.70	-20.39	-22.66	-1.55	-14.65	-14.64	-1.57	0.46
8	58	145	-9.94	-104.75	-102.41	-12.28	-14.73	-1.18	-14.96	-14.96	-1.18	0.20
8	58	151	2.69	-83.21	-82.49	1.97	-7.82	-2.27	-13.19	-9.64	-5.82	5.11
8	58	158	-35.52	-94.18	-94.10	-35.60	-2.21	4.56	-1.44	-1.41	4.53	0.40
8	58	162	-8.75	-102.51	-91.23	-20.03	-30.51	-1.65	-11.93	-11.60	-1.97	1.80
8	58	171	-11.15	-96.30	-11.36	-96.09	4.20	-2.26	-24.56	-2.27	-24.54	0.61
8	58	176	-20.96	-93.25	-93.22	-20.99	-1.41	0.25	-2.12	-1.91	4.82e-02	0.66
8	58	180	-23.57	-136.04	-129.20	-30.41	26.88	-7.27	-16.27	-12.53	-11.01	-4.43
8	58	221	-15.40	-77.49	-76.69	-16.20	7.01	-1.22	-14.63	-13.89	-1.96	-3.07
8	58	222	-25.88	-89.21	-88.39	-26.70	7.15	-1.65	-19.18	-19.11	-1.73	-1.15
8	58	223	-30.82	-88.06	-87.93	-30.95	2.66	-1.48	-19.23	-19.12	-1.60	1.41
8	58	224	-25.93	-78.09	-78.00	-26.02	-2.13	-0.74	-16.21	-15.39	-1.55	3.45
8	58	225	-10.77	-59.50	-59.31	-10.96	-3.02	-0.41	-6.58	-5.38	-1.61	-2.45
8	58	226	-16.92	-52.86	-52.84	-16.94	-0.94	0.18	-9.75	-7.88	-1.69	3.88
8	58	239	-44.39	-82.45	-45.25	-81.60	5.63	17.64	2.72	2.72	17.64	0.10
8	58	270	-63.51	-83.01	-79.67	-66.85	-7.34	9.05	3.91	6.48	6.48	-2.57
8	58	271	-53.05	-88.99	-88.79	-53.25	-2.66	3.34	-3.95	-3.75	3.13	1.21
8	58	272	-33.98	-101.94	-101.08	-34.83	-7.58	6.36	-8.97	-0.36	-2.25	7.60
8	58	273	-47.20	-71.22	-47.29	-71.12	1.52	20.15	-3.03	-2.96	20.08	1.26
8	58	274	-39.01	-81.76	-39.83	-80.93	5.89	23.15	1.92	2.25	22.81	2.65
8	58	275	-52.26	-70.92	-52.27	-70.92	-0.37	18.44	-0.17	1.44	16.83	-5.23
8	58	276	-28.26	-90.06	-29.27	-89.05	7.84	2.27	-5.94	0.58	-4.25	3.33
8	58	277	-35.18	-91.65	-37.24	-89.59	10.60	1.94	-6.14	-7.11e-02	-4.13	3.49
8	58	278	-40.20	-93.29	-43.30	-90.19	12.44	1.66	-6.60	0.12	-5.07	3.21
8	58	279	-29.94	-112.94	-109.72	-33.17	-16.04	7.46	-7.61	3.36	-3.51	6.71
8	58	280	-44.11	-84.83	-81.54	-47.40	-11.10	5.08	-8.81	-1.23	-2.50	6.91
8	58	281	-62.54	-66.35	-66.13	-62.76	-0.89	13.71	9.95	10.59	13.07	1.42
8	58	282	-55.02	-68.00	-61.80	-61.22	-6.48	6.32	-1.54	-8.95e-02	4.86	-3.05
8	58	283	-62.85	-110.78	-98.08	-75.55	-21.16	-0.60	-9.01	-2.43	-7.17	-3.47
8	58	284	-40.71	-66.46	-41.10	-66.08	3.12	22.58	2.78	5.87	19.49	7.19
8	58	285	-49.32	-86.96	-81.62	-54.67	-13.14	12.49	1.71	10.75	3.45	3.97
8	58	286	-57.76	-70.67	-64.31	-64.11	-6.45	15.36	10.75	14.90	11.21	-1.38
8	58	287	-49.54	-80.82	-49.98	-80.37	3.70	14.02	5.99	6.19	13.81	1.26
8	58	288	-45.74	-78.21	-77.91	-46.04	3.13	5.31	-10.10	-5.64	0.86	-6.99
8	58	289	-57.67	-70.33	-57.67	-70.33	5.68e-02	13.61	2.48	6.76	9.33	5.41
8	58	290	-60.93	-71.57	-71.35	-61.15	-1.52	12.99	9.96	11.49	11.45	-1.51
8	58	291	-43.15	-82.97	-82.41	-43.71	4.69	5.01	-6.26	-5.73	4.48	-2.39
8	58	292	-29.50	-126.92	-126.44	-29.99	6.87	-2.82	-7.62	-2.88	-7.56	0.56
8	58	293	-57.12	-71.88	-57.30	-71.70	-1.61	17.20	9.76	10.60	16.37	-2.35
8	58	294	-23.94	-90.03	-90.00	-23.98	1.48	-1.90	-6.48	-6.39	-2.00	-0.66
8	58	295	-15.96	-94.45	-94.45	-15.96	3.02e-02	-1.20	-7.45	-7.42	-1.23	-0.43
8	58	296	-10.18	-96.39	-96.39	-10.18	0.32	-1.03	-7.95	-7.92	-1.06	-0.44
8	58	297	-4.97	-98.35	-98.35	-4.97	0.51	-0.56	-8.15	-8.12	-0.59	-0.50
8	58	298	-2.31	-100.53	-100.53	-2.32	0.60	-0.30	-8.35	-8.35	-0.30	-0.22
8	58	299	-46.53	-77.33	-74.80	-49.07	-8.46	2.30	-13.03	-5.44	-5.29	-7.66
8	58	300	-12.83	-100.09	-93.34	-19.58	-23.30	3.30	1.59e-02	3.26	6.25e-02	0.39
8	58	301	-12.96	-103.05	-96.47	-19.55	-23.45	2.57	0.25	2.48	0.34	0.44
8	58	302	-12.38	-103.87	-98.41	-17.85	-21.68	1.89	0.17	1.82	0.25	0.35
8	58	303	-10.45	-103.15	-99.68	-13.92	-17.59	1.31	1.93e-02	1.29	4.12e-02	0.17
8	58	304	-6.29	-105.47	-104.20	-7.56	-11.14	0.95	-7.18e-02	0.95	-6.62e-02	-7.54e-02
8	58	305	-3.70	-111.61	-111.10	-4.21	-7.38	1.16	-0.46	0.77	-7.87e-02	-0.69
8	58	306	-19.10	-95.45	-94.14	-20.42	-9.94	20.61	2.74	20.61	2.74	-0.20
8	58	307	-16.18	-99.69	-98.17	-17.70	-11.16	20.07	2.42	20.07	2.42	-0.22
8	58	308	-13.53	-101.94	-100.61	-14.86	-10.73	19.44	2.22	19.43	2.22	-0.29
8	58	309	-10.88	-103.98	-103.19	-11.66	-8.52	18.93	2.08	18.93	2.09	-0.26
8	58	310	-6.52	-107.60	-107.38	-6.74	-4.73	18.62	1.28	18.61	1.28	-0.26
8	58	311	-4.79	-120.70	-120.64	-4.84	-2.48	18.87	0.63	18.87	0.63	-0.29
8	58	312	-21.63	-96.12	-96.01	-21.74	-2.88	10.15	1.72	10.14	1.73	-0.26
8	58	313	-17.36	-99.62	-99.54	-17.44	-2.57	10.28	1.05	10.26	1.08	-0.50
8	58	314	-14.12	-101.61	-101.57	-14.17	-2.02	10.39	1.15	10.36	1.18	-0.52
8	58	315	-10.76	-104.03	-104.02	-10.77	-0.94	10.44	1.09	10.42	1.11	-0.42



8	58	316	-5.85	-108.46	-108.46	-5.86	0.62	10.51	0.70	10.50	0.71	-0.19
8	58	317	-3.52	-116.58	-116.56	-3.54	1.46	10.83	0.46	10.82	0.47	0.34
8	58	318	-25.87	-95.88	-95.79	-25.96	2.61	3.17	-1.28	2.74	-0.85	1.32
8	58	319	-21.31	-91.80	-91.80	-21.31	0.36	1.89	-0.96	1.86	-0.93	0.26
8	58	320	-15.86	-94.14	-94.08	-15.92	-2.16	1.58	-0.19	1.58	-0.19	3.38e-02
8	58	321	-10.39	-97.24	-97.16	-10.47	-2.60	1.38	0.21	1.36	0.22	-0.14
8	58	322	-5.36	-62.41	-5.38	-62.39	0.92	31.33	3.57	4.52	30.38	-5.06
8	58	323	-43.92	-80.23	-80.19	-43.96	1.21	5.48	-6.30	-5.72	4.90	2.54
8	58	324	-22.75	-91.16	-90.27	-23.63	-7.73	20.71	1.79	20.66	1.85	-0.98
8	58	325	-23.20	-77.72	-23.54	-77.39	4.26	20.64	7.45	7.66	20.43	1.65
8	58	326	-47.81	-71.05	-70.85	-48.01	-2.16	7.17	-9.11	-4.98	3.04	7.09
8	58	327	-5.23	-99.61	-99.58	-5.26	-1.67	1.04	0.19	1.01	0.22	-0.17
8	58	328	-3.01	-104.26	-104.25	-3.02	-0.95	0.65	0.10	0.65	0.10	2.73e-03
8	58	329	-13.60	-96.42	-90.60	-19.42	-21.18	4.02	-0.54	3.97	-0.49	0.49
8	58	330	-30.03	-94.64	-94.11	-30.55	5.81	-3.06	-5.21	-4.25	-4.03	-1.07
8	58	331	-16.71	-87.83	-83.91	-20.63	-16.23	6.02	-2.18	5.88	-2.05	1.04
8	58	332	-28.52	-83.67	-83.19	-29.00	-5.10	20.61	-0.56	20.41	-0.36	-2.02
8	58	333	-28.23	-78.08	-77.58	-28.72	-4.94	8.43	-2.08	8.25	-1.90	1.35
8	58	334	-38.35	-69.95	-69.90	-38.40	-1.31	26.94	1.79	26.71	2.02	-2.40
8	58	335	-36.79	-48.91	-44.06	-41.64	5.94	17.26	5.24	14.66	7.84	-4.95
8	58	336	-46.09	-52.94	-47.79	-51.24	2.95	25.93	11.05	25.93	11.05	-0.10
8	58	337	-6.91	-54.91	-7.84	-53.98	6.61	26.85	3.08	8.29	21.64	-9.83
8	58	338	-17.56	-59.78	-18.39	-58.95	5.87	26.45	7.99	12.52	21.92	-7.94
8	58	339	-12.41	-74.71	-12.51	-74.61	2.43	24.20	5.87	6.46	23.60	-3.26
8	58	340	-32.94	-65.74	-33.61	-65.07	4.63	21.18	14.66	15.10	20.74	1.64
8	58	341	-3.43	-75.08	-3.53	-74.97	2.78	1.53	-0.26	1.15	0.13	-0.74
8	58	342	-10.14	-88.14	-10.27	-88.01	3.11	1.26	-2.77	1.22	-2.72	-0.41
8	58	343	-19.97	-88.25	-20.33	-87.89	4.94	1.91	-5.22	1.21	-4.52	2.12
8	58	344	-25.74	-91.21	-91.07	-25.88	-3.02	7.53	1.80	7.53	1.80	-9.20e-03
8	58	345	-43.40	-92.96	-46.33	-90.03	11.70	3.04	-8.24	1.16	-6.37	4.20
8	58	346	-30.50	-83.10	-83.10	-30.50	-0.49	9.85	-1.46	8.50	-0.11	-3.67
8	58	347	-47.22	-83.19	-48.49	-81.92	6.64	5.61	-10.82	1.40	-6.62	7.17
8	58	348	-41.42	-72.29	-72.23	-41.48	1.36	9.29	-3.63	7.69	-2.03	-4.26
8	58	349	-51.91	-56.10	-53.84	-54.17	2.09	9.91	0.83	5.77	4.97	4.53
8	58	350	-31.97	-79.42	-32.52	-78.86	5.09	22.37	3.62	4.64	21.35	4.26
8	58	351	-52.19	-55.87	-52.44	-55.62	0.92	4.49	-12.26	-3.47	-4.30	8.37
8	58	352	-28.68	-98.47	-98.47	-28.68	0.17	4.07	-1.96	2.33	-0.22	2.73
8	60	1	-6.77	-102.23	-101.67	-7.32	-7.26	-0.77	-15.77	-15.74	-0.81	-0.69
8	60	2	-37.75	-72.60	-43.56	-66.79	12.99	6.94	-4.16e-02	0.10	6.79	-1.00
8	60	3	-4.53	-90.86	-90.86	-4.54	0.50	0.11	-2.34	-2.34	0.10	5.91e-02
8	60	5	-39.89	-78.71	-78.61	-39.99	2.00	-11.11	-18.72	-17.96	-11.87	2.28
8	60	6	-36.76	-62.20	-61.56	-37.40	4.01	-4.23	-17.32	-17.20	-4.35	1.24
8	60	7	-5.43	-92.46	-92.46	-5.43	0.43	-0.75	-12.98	-12.97	-0.76	-0.37
8	60	8	-56.63	-122.90	-122.72	-56.81	-3.45	-5.83	-17.45	-7.40	-15.88	-3.97
8	60	9	-12.27	-31.19	-28.85	-14.61	-6.23	-0.29	-2.76	-1.84	-1.20	-1.20
8	60	10	-15.02	-18.65	-18.64	-15.03	0.23	-0.72	-2.63	-1.72	-1.63	0.96
8	60	11	-1.67	-92.68	-7.30	-87.05	21.92	-2.84	-22.17	-2.87	-22.14	0.80
8	60	12	-3.34	-102.56	-4.29	-101.61	9.67	-1.89	-29.80	-1.93	-29.76	1.05
8	60	27	-43.19	-71.09	-62.10	-52.18	-13.04	-0.56	-11.65	-3.26	-8.94	-4.76
8	60	37	-28.13	-61.28	-28.29	-61.13	2.28	9.85e-02	-12.20	-1.74	-10.36	4.39
8	60	47	-33.11	-88.56	-34.75	-86.92	9.40	-1.01	-19.70	-1.69	-19.02	3.50
8	60	57	-24.36	-94.35	-28.68	-90.03	16.85	-2.02	-21.82	-2.20	-21.65	1.85
8	60	61	-11.58	-92.92	-17.04	-87.45	20.36	-2.58	-21.84	-2.63	-21.79	0.98
8	60	68	3.08	-95.51	-2.04	-90.39	21.88	-2.92	-24.16	-2.96	-24.12	0.96
8	60	72	1.60	-95.51	-2.16	-91.75	18.73	-3.09	-25.72	-3.14	-25.67	1.04
8	60	76	-36.49	-87.17	-84.60	-39.05	-11.12	-1.37	-8.28	-8.24	-1.41	0.51
8	60	83	-1.96	-82.84	-82.78	-2.02	2.19	-2.98	-11.58	-10.47	-4.09	-2.89
8	60	87	-3.09	-85.26	-85.20	-3.15	-2.33	-1.24	-12.73	-12.46	-1.51	-1.74
8	60	91	-7.34	-91.24	-91.20	-7.38	-1.52	-1.52	-13.51	-13.43	-1.60	-1.02
8	60	95	-8.43	-91.84	-91.84	-8.43	-0.59	-1.61	-13.58	-13.56	-1.63	-0.53
8	60	99	-6.83	-92.31	-92.31	-6.83	6.99e-02	-1.22	-13.19	-13.17	-1.24	-0.50
8	60	106	-15.53	-91.16	-91.14	-15.55	1.40	0.58	-3.06	-2.93	0.45	0.68
8	60	110	-14.50	-91.12	-91.12	-14.50	0.38	-0.43	-2.76	-2.72	-0.46	0.30
8	60	114	-14.85	-91.81	-91.81	-14.85	-0.66	-0.27	-2.40	-2.40	-0.27	6.95e-03
8	60	118	-13.18	-93.08	-93.08	-13.19	-0.74	-7.46e-02	-2.19	-2.19	-7.93e-02	-9.87e-02
8	60	122	-8.24	-94.11	-94.11	-8.24	9.29e-05	4.12e-02	-2.17	-2.17	3.95e-02	-6.10e-02
8	60	129	-33.03	-95.77	-90.33	-38.47	-17.66	-1.28	-11.41	-11.40	-1.29	-0.15
8	60	133	-28.68	-97.15	-92.03	-33.79	-18.01	-1.34	-12.68	-12.68	-1.34	-0.20
8	60	137	-22.55	-97.25	-93.07	-26.74	-17.18	-1.42	-13.48	-13.48	-1.42	-0.20
8	60	141	-15.94	-95.86	-93.15	-18.65	-14.47	-1.64	-14.20	-14.19	-1.64	-0.27
8	60	145	-9.93	-99.02	-97.91	-11.03	-9.86	-1.29	-14.95	-14.94	-1.29	-0.29
8	60	151	-41.32	-81.39	-81.34	-41.37	1.38	-1.07	-6.93	-6.67	-1.32	1.19
8	60	158	-26.28	-90.60	-90.59	-26.29	0.89	9.26	-2.77	-2.70	9.19	0.93
8	60	162	-35.13	-93.42	-88.79	-39.76	-15.76	-1.29	-10.14	-10.14	-1.29	7.53e-02
8	60	171	-3.06	-104.30	-4.72	-102.64	12.86	-2.67	-28.21	-2.69	-28.19	0.70

8	60	176	-18.41	-90.12	-90.11	-18.43	1.04	3.52	-3.49	-3.34	3.38	0.99
8	60	180	-12.39	-117.08	-113.13	-16.34	19.95	-5.93	-13.33	-8.78	-10.48	-3.60
8	60	221	-28.02	-78.55	-77.24	-29.32	8.03	-0.60	-13.68	-12.83	-1.45	-3.23
8	60	222	-39.70	-90.94	-89.65	-41.00	8.05	-1.23	-17.62	-17.58	-1.27	-0.86
8	60	223	-44.18	-88.79	-88.34	-44.62	4.43	-1.01	-17.76	-17.55	-1.22	1.88
8	60	224	-37.70	-77.53	-77.52	-37.70	-0.48	-4.29e-02	-15.24	-14.09	-1.20	4.03
8	60	225	-19.37	-55.99	-55.99	-19.37	0.14	0.26	-6.78	-5.09	-1.43	-3.01
8	60	226	-24.06	-50.94	-50.86	-24.14	-1.52	0.92	-9.61	-7.15	-1.54	4.46
8	60	239	-37.30	-74.87	-40.74	-71.44	10.83	15.68	2.22	2.38	15.52	-1.46
8	60	270	-56.64	-78.89	-78.20	-57.33	-3.84	10.46	6.51	9.57	7.40	-1.64
8	60	271	-44.19	-86.82	-86.78	-44.22	1.20	3.97	-7.16	-6.86	3.66	1.83
8	60	272	-28.08	-96.62	-95.91	-28.79	-6.97	8.37	-10.38	-0.39	-1.63	9.35
8	60	273	-44.01	-62.58	-48.28	-58.31	7.82	17.49	-5.75	-5.70	17.44	1.07
8	60	274	-31.55	-75.55	-35.79	-71.31	12.98	18.76	-0.16	-4.84e-02	18.65	1.43
8	60	275	-50.83	-62.16	-52.71	-60.28	4.21	17.10	-0.98	0.97	15.15	-5.60
8	60	276	-13.41	-90.87	-18.08	-86.20	18.44	-0.39	-7.57	-1.25	-6.70	2.34
8	60	277	-18.07	-88.19	-23.55	-82.71	18.82	-0.72	-5.63	-1.13	-5.22	1.35
8	60	278	-24.31	-87.80	-29.41	-82.70	17.26	2.02e-02	-5.63	-9.49e-02	-5.52	0.80
8	60	279	-24.33	-103.69	-101.50	-26.53	-13.01	10.18	-7.35	5.42	-2.59	7.80
8	60	280	-36.90	-82.17	-80.66	-38.42	-8.14	5.11	-9.93	-1.45	-3.37	7.46
8	60	281	-56.82	-66.56	-66.09	-57.28	2.07	14.38	12.00	13.24	13.14	1.19
8	60	282	-50.49	-63.70	-63.14	-51.05	-2.64	5.51	-2.78	-0.83	3.56	-3.52
8	60	283	-54.82	-98.00	-89.86	-62.96	-16.89	1.04	-6.80	0.39	-6.16	-2.15
8	60	284	-38.34	-68.14	-42.80	-63.68	10.63	18.47	-3.88	-0.56	15.15	7.95
8	60	285	-43.01	-82.40	-80.29	-45.12	-8.87	15.18	1.72	13.17	3.74	4.80
8	60	286	-53.66	-65.89	-65.50	-54.06	-2.17	16.39	10.26	16.04	10.61	-1.43
8	60	287	-43.75	-73.92	-45.61	-72.05	7.27	12.78	7.10	7.10	12.77	-0.18
8	60	288	-45.23	-77.94	-77.21	-45.96	4.81	6.58	-7.79	-3.33	2.11	-6.65
8	60	289	-53.95	-66.62	-54.32	-66.24	2.13	13.64	4.38	8.72	9.30	4.62
8	60	290	-53.97	-72.70	-72.54	-54.12	1.68	15.11	11.56	14.66	12.01	-1.19
8	60	291	-43.68	-84.16	-83.15	-44.69	6.31	5.75	-3.51	-3.06	5.31	-1.98
8	60	292	-22.67	-112.68	-112.51	-22.83	3.86	-0.15	-6.81	-0.50	-6.46	1.48
8	60	293	-56.06	-63.13	-57.04	-62.15	2.44	17.03	9.95	11.62	15.36	-3.01
8	60	294	-17.62	-86.54	-86.42	-17.74	-2.84	-1.15	-3.71	-3.46	-1.40	-0.76
8	60	295	-11.17	-90.79	-90.62	-11.33	-3.62	-0.77	-4.39	-4.28	-0.87	-0.61
8	60	296	-7.31	-91.96	-91.88	-7.40	-2.75	-0.58	-4.64	-4.55	-0.67	-0.62
8	60	297	-3.72	-92.16	-92.14	-3.75	-1.48	-0.19	-4.56	-4.46	-0.29	-0.66
8	60	298	-1.84	-93.80	-93.79	-1.84	-0.68	-5.81e-02	-4.44	-4.39	-0.10	-0.45
8	60	299	-48.30	-70.65	-69.27	-49.68	-5.38	3.10	-11.91	-4.03	-4.78	-7.49
8	60	300	-27.28	-92.11	-89.91	-29.48	-11.74	1.74	-0.72	0.80	0.23	-1.20
8	60	301	-23.46	-94.22	-91.91	-25.78	-12.59	1.21	-0.48	0.35	0.38	-0.84
8	60	302	-19.14	-95.13	-93.14	-21.13	-12.14	0.80	-0.66	-6.66e-02	0.20	-0.72
8	60	303	-14.19	-95.26	-93.99	-15.46	-10.07	0.51	-1.07	-0.50	-6.12e-02	-0.76
8	60	304	-7.66	-98.44	-97.97	-8.13	-6.56	0.39	-1.37	-0.84	-0.14	-0.81
8	60	305	-4.30	-105.50	-105.29	-4.51	-4.54	0.73	-1.95	-1.09	-0.13	-1.25
8	60	306	-25.43	-90.52	-90.45	-25.50	-2.16	14.33	2.92	14.22	3.03	-1.09
8	60	307	-21.42	-92.81	-92.65	-21.58	-3.35	14.83	2.39	14.78	2.44	-0.78
8	60	308	-17.23	-94.04	-93.89	-17.38	-3.37	14.89	1.91	14.83	1.97	-0.86
8	60	309	-12.90	-95.37	-95.31	-12.96	-2.23	14.95	1.80	14.89	1.85	-0.82
8	60	310	-7.20	-97.72	-97.71	-7.21	-0.74	15.10	1.16	15.06	1.20	-0.74
8	60	311	-4.81	-108.17	-108.17	-4.81	-6.62e-02	15.62	0.60	15.59	0.64	-0.71
8	60	312	-23.27	-92.43	-92.12	-23.57	4.58	5.53	2.82	5.53	2.82	1.79e-02
8	60	313	-19.31	-93.81	-93.55	-19.57	4.36	6.27	1.17	6.23	1.21	-0.44
8	60	314	-15.51	-94.30	-94.08	-15.73	4.23	6.84	0.88	6.77	0.96	-0.65
8	60	315	-11.20	-95.12	-94.90	-11.42	4.35	7.34	0.93	7.28	0.98	-0.60
8	60	316	-5.83	-96.45	-96.26	-6.02	4.13	7.76	0.66	7.74	0.69	-0.41
8	60	317	-3.13	-99.05	-98.91	-3.28	3.75	8.26	0.48	8.25	0.48	8.70e-02
8	60	318	-21.24	-90.00	-89.91	-21.33	-2.52	3.33	0.20	2.97	0.56	1.01
8	60	319	-17.24	-87.83	-87.41	-17.66	-5.43	1.95	-0.56	1.95	-0.56	2.64e-02
8	60	320	-12.43	-90.36	-89.65	-13.14	-7.41	1.44	-0.25	1.42	-0.22	-0.19
8	60	321	-7.98	-92.22	-91.65	-8.55	-6.93	1.22	-1.31e-04	1.05	0.17	-0.42
8	60	322	-6.00	-92.60	-6.11	-92.49	3.14	17.81	2.38	2.39	17.81	0.26
8	60	323	-45.58	-80.31	-80.01	-45.88	3.23	6.28	-4.12	-3.25	5.42	2.87
8	60	324	-29.26	-87.94	-87.94	-29.26	-2.19e-02	13.72	1.71	13.21	2.22	-2.43
8	60	325	-19.38	-81.81	-21.58	-79.62	11.49	15.26	1.61	2.81	14.06	3.87
8	60	326	-50.14	-68.97	-68.95	-50.16	-0.67	8.16	-7.76	-3.08	3.48	7.26
8	60	327	-4.00	-92.45	-92.19	-4.25	-4.76	0.97	-0.14	0.63	0.20	-0.51
8	60	328	-2.10	-93.09	-92.97	-2.22	-3.29	0.67	-0.27	0.29	0.11	-0.46
8	60	329	-31.22	-89.80	-88.16	-32.86	-9.67	2.20	-1.11	1.43	-0.35	-1.40
8	60	330	-24.18	-87.69	-87.68	-24.20	1.01	-1.43	-3.29	-1.73	-2.99	-0.68
8	60	331	-36.16	-84.31	-83.67	-36.79	-5.50	3.69	-1.29	3.40	-1.00	-1.15
8	60	332	-34.72	-83.67	-83.53	-34.86	2.68	13.97	-0.82	12.88	0.27	-3.87
8	60	333	-46.60	-77.44	-77.08	-46.96	3.33	6.02	0.98	5.69	1.30	-1.24
8	60	334	-42.82	-73.77	-72.51	-44.08	6.11	18.79	1.38	18.30	1.87	-2.89
8	60	335	-39.73	-66.78	-45.80	-60.71	11.29	11.91	6.48	8.53	9.85	-2.63

8	60	336	-43.42	-63.44	-50.71	-56.15	9.63	15.98	7.99	15.52	8.45	1.88
8	60	337	-8.51	-89.40	-9.55	-88.36	9.11	20.56	4.59	4.96	20.19	-2.43
8	60	338	-17.67	-77.78	-19.35	-76.10	9.92	18.43	6.86	7.07	18.21	-1.57
8	60	339	-11.07	-89.27	-11.64	-88.69	6.70	14.89	3.02	3.13	14.77	1.15
8	60	340	-31.60	-72.07	-34.86	-68.81	11.02	17.76	5.24	7.17	15.84	4.52
8	60	341	-2.38	-100.29	-2.82	-99.85	6.53	8.77e-02	-10.22	-0.23	-9.91	1.77
8	60	342	-5.37	-98.50	-6.42	-97.45	9.82	-0.24	-9.95	-0.51	-9.68	1.59
8	60	343	-9.58	-91.82	-12.58	-88.82	15.42	-0.13	-8.99	-0.90	-8.23	2.49
8	60	344	-26.31	-89.80	-89.39	-26.72	5.09	3.98	2.45	2.55	3.88	-0.39
8	60	345	-30.75	-87.37	-34.14	-83.98	13.43	2.10	-7.06	1.57	-6.53	2.14
8	60	346	-31.18	-84.42	-83.47	-32.13	7.06	6.30	-4.47	1.79	3.83e-02	-5.31
8	60	347	-38.77	-80.25	-39.67	-79.35	6.05	5.34	-9.68	2.32	-6.67	6.01
8	60	348	-38.63	-77.40	-74.99	-41.04	9.36	2.48	-6.22	-2.50e-02	-3.71	-3.94
8	60	349	-45.23	-65.66	-57.92	-52.97	9.91	6.72	-6.11	-1.67	2.28	6.10
8	60	350	-26.13	-78.99	-29.68	-75.44	13.22	17.05	-0.74	0.44	15.87	4.43
8	60	351	-47.95	-57.55	-47.95	-57.55	-0.13	5.02	-11.86	-2.53	-4.30	8.39
8	60	352	-23.94	-92.60	-92.48	-24.06	-2.88	5.24	-1.02	2.10	2.12	3.13
8	62	1	-6.64	-104.62	-103.64	-7.62	-9.73	-0.72	-16.01	-15.99	-0.74	-0.55
8	62	2	-29.46	-48.64	-42.23	-35.86	9.04	1.27	-1.74	-0.64	0.17	-1.45
8	62	3	-4.67	-104.96	-104.96	-4.68	0.79	0.41	-5.18e-02	0.19	0.17	0.23
8	62	5	-46.11	-78.73	-78.58	-46.25	-2.16	-6.54	-12.15	-11.45	-7.23	1.85
8	62	6	-47.70	-59.73	-59.70	-47.72	-0.58	-0.83	-11.64	-11.55	-0.91	0.96
8	62	7	-6.23	-96.60	-96.58	-6.25	1.06	-1.01	-16.63	-16.62	-1.02	-0.38
8	62	8	-71.58	-141.92	-141.85	-71.65	-2.31	-6.96	-18.42	-9.91	-15.47	-5.01
8	62	9	-5.35	-35.73	-31.29	-9.79	-10.74	-0.76	-2.16	-1.87	-1.05	-0.57
8	62	10	-8.60	-20.10	-18.83	-9.87	3.60	-1.61	-1.95	-1.93	-1.63	7.43e-02
8	62	11	-30.39	-97.20	-34.08	-93.51	15.27	-2.36	-24.30	-2.64	-24.02	2.46
8	62	12	-4.70	-85.13	-5.01	-84.81	5.04	-1.57	-24.68	-1.58	-24.66	0.56
8	62	27	-40.49	-79.88	-70.95	-49.42	-16.49	-0.79	-10.68	-3.69	-7.78	-4.50
8	62	37	-30.89	-59.93	-32.24	-58.59	6.10	-0.48	-11.20	-1.90	-9.78	3.64
8	62	47	-43.32	-92.17	-46.94	-88.55	12.80	-1.01	-19.59	-1.78	-18.81	3.73
8	62	57	-43.41	-101.20	-49.58	-95.04	17.84	-1.72	-22.88	-2.16	-22.45	3.00
8	62	61	-37.83	-99.69	-43.47	-94.04	17.82	-2.14	-23.59	-2.46	-23.28	2.60
8	62	68	-22.97	-96.06	-24.98	-94.04	11.97	-2.48	-25.44	-2.68	-25.24	2.16
8	62	72	-16.72	-93.60	-17.59	-92.74	8.10	-2.76	-25.86	-2.88	-25.73	1.70
8	62	76	-8.10	-91.08	-85.11	-14.07	-21.44	-1.03	-10.80	-10.55	-1.28	1.55
8	62	83	-14.11	-89.72	-89.01	-14.83	7.32	-3.10	-14.12	-13.13	-4.09	-3.15
8	62	87	-11.34	-87.95	-87.94	-11.35	0.87	-1.53	-15.54	-15.29	-1.77	-1.84
8	62	91	-12.00	-94.21	-94.21	-12.00	0.49	-1.86	-16.62	-16.54	-1.93	-1.04
8	62	95	-10.79	-95.17	-95.15	-10.81	1.30	-2.01	-16.88	-16.86	-2.03	-0.53
8	62	99	-8.09	-96.80	-96.79	-8.11	1.17	-1.56	-16.68	-16.66	-1.58	-0.51
8	62	106	-16.93	-95.61	-95.60	-16.94	0.96	1.85e-02	-0.95	-0.46	-0.47	0.48
8	62	110	-14.43	-95.99	-95.98	-14.44	0.65	0.10	-0.42	2.74e-03	-0.32	0.20
8	62	114	-13.59	-97.10	-97.10	-13.59	-0.23	0.28	-3.35e-02	0.28	-3.29e-02	-1.38e-02
8	62	118	-11.55	-99.43	-99.43	-11.55	-0.45	0.42	0.10	0.41	0.11	-5.54e-02
8	62	122	-7.29	-102.66	-102.66	-7.29	0.24	0.39	0.15	0.38	0.16	5.89e-02
8	62	129	-19.31	-104.33	-93.29	-30.35	-28.58	-1.41	-13.12	-13.06	-1.47	0.81
8	62	133	-20.30	-105.90	-95.59	-30.61	-27.87	-1.46	-14.07	-14.04	-1.49	0.56
8	62	137	-18.37	-105.17	-96.92	-26.63	-25.46	-1.48	-14.64	-14.63	-1.49	0.36
8	62	141	-14.46	-102.20	-97.02	-19.65	-20.69	-1.65	-15.10	-15.10	-1.66	0.13
8	62	145	-9.87	-103.99	-101.97	-11.89	-13.62	-1.26	-15.52	-15.52	-1.26	-3.57e-02
8	62	151	-10.31	-83.64	-83.14	-10.81	-6.05	-2.53	-11.64	-9.89	-4.27	3.58
8	62	158	-35.41	-94.48	-94.45	-35.44	-1.26	4.83	-0.84	-0.80	4.78	0.51
8	62	162	-15.52	-100.76	-91.23	-25.05	-26.86	-1.71	-12.23	-12.08	-1.85	1.22
8	62	171	-10.45	-97.79	-10.79	-97.45	5.43	-2.41	-25.71	-2.43	-25.70	0.58
8	62	176	-21.75	-93.63	-93.62	-21.76	-0.48	0.73	-1.54	-1.28	0.47	0.72
8	62	180	-24.52	-135.94	-128.71	-31.74	27.44	-6.68	-15.46	-11.94	-10.20	-4.30
8	62	221	-16.39	-77.94	-76.94	-17.39	7.78	-1.38	-14.16	-13.65	-1.89	-2.51
8	62	222	-26.90	-89.64	-88.52	-28.01	8.29	-1.66	-18.70	-18.67	-1.69	-0.69
8	62	223	-31.60	-88.01	-87.72	-31.90	4.06	-1.45	-18.69	-18.55	-1.59	1.55
8	62	224	-26.24	-77.20	-77.19	-26.24	-0.70	-0.85	-15.52	-14.79	-1.58	3.19
8	62	225	-11.50	-59.34	-59.20	-11.65	-2.63	-0.62	-6.23	-5.31	-1.54	-2.07
8	62	226	-16.33	-51.27	-51.26	-16.33	0.30	-0.22	-9.00	-7.49	-1.72	3.31
8	62	239	-43.07	-82.13	-44.41	-80.79	7.10	14.80	2.62	2.63	14.79	0.33
8	62	270	-63.64	-82.36	-80.05	-65.96	-6.16	8.65	4.00	6.02	6.62	-2.31
8	62	271	-52.83	-89.53	-89.45	-52.92	-1.74	3.33	-3.30	-3.04	3.07	1.29
8	62	272	-34.15	-102.14	-101.42	-34.87	-6.98	6.52	-7.77	0.37	-1.61	7.07
8	62	273	-47.16	-70.26	-47.56	-69.85	3.03	18.49	-2.23	-2.16	18.42	1.21
8	62	274	-37.85	-81.76	-39.22	-80.39	7.63	19.23	1.61	1.92	18.91	2.33
8	62	275	-52.29	-70.25	-52.33	-70.21	0.82	16.66	0.68	1.85	15.49	-4.16
8	62	276	-26.22	-91.14	-27.82	-89.54	10.08	1.08	-7.56	2.43e-02	-6.50	2.82
8	62	277	-32.47	-92.25	-35.28	-89.44	12.67	0.84	-7.41	-0.37	-6.19	2.92
8	62	278	-37.25	-93.51	-41.05	-89.71	14.12	0.94	-7.77	-6.93e-02	-6.76	2.79
8	62	279	-30.14	-112.65	-109.78	-33.02	-15.13	7.30	-6.55	3.43	-2.69	6.21
8	62	280	-44.23	-84.92	-82.13	-47.01	-10.27	5.31	-6.99	-0.29	-1.39	6.12

8	62	281	-61.92	-65.96	-65.93	-61.95	0.35	12.75	8.65	9.59	11.80	1.73
8	62	282	-55.85	-67.00	-62.24	-60.61	-5.51	6.65	-0.56	0.60	5.49	-2.64
8	62	283	-63.21	-109.54	-98.13	-74.62	-19.96	-0.36	-8.11	-2.27	-6.19	-3.34
8	62	284	-40.63	-67.95	-41.53	-67.05	4.89	20.05	2.17	4.69	17.53	6.22
8	62	285	-49.60	-86.61	-82.13	-54.09	-12.08	11.92	2.35	10.24	4.03	3.64
8	62	286	-58.69	-69.30	-64.69	-63.30	-5.26	13.91	10.53	13.56	10.88	-1.04
8	62	287	-48.21	-80.37	-49.00	-79.58	4.99	11.98	5.33	5.69	11.63	1.50
8	62	288	-44.92	-78.62	-78.12	-45.42	4.09	4.85	-9.47	-5.61	1.00	-6.35
8	62	289	-56.55	-69.70	-56.68	-69.58	1.26	12.28	1.55	6.02	7.80	5.29
8	62	290	-60.29	-71.66	-71.65	-60.30	-0.30	11.81	9.61	10.55	10.87	-1.09
8	62	291	-42.49	-83.39	-82.53	-43.34	5.86	4.48	-6.18	-5.85	4.16	-1.84
8	62	292	-29.66	-126.71	-126.13	-30.24	7.48	-2.54	-6.92	-2.59	-6.87	0.47
8	62	293	-57.11	-70.83	-57.12	-70.82	-0.36	15.42	9.26	9.75	14.92	-1.68
8	62	294	-23.91	-89.69	-89.66	-23.94	1.39	-1.75	-5.95	-5.83	-1.88	-0.71
8	62	295	-15.86	-93.83	-93.83	-15.86	-0.21	-1.12	-6.77	-6.72	-1.16	-0.49
8	62	296	-10.04	-95.56	-95.56	-10.04	2.53e-02	-0.93	-7.11	-7.07	-0.97	-0.49
8	62	297	-4.88	-97.21	-97.21	-4.88	0.30	-0.47	-7.15	-7.11	-0.52	-0.54
8	62	298	-2.27	-99.15	-99.15	-2.28	0.46	-0.24	-7.21	-7.20	-0.25	-0.27
8	62	299	-45.92	-76.72	-74.67	-47.98	-7.68	2.20	-12.17	-5.25	-4.72	-7.18
8	62	300	-16.80	-98.63	-93.08	-22.34	-20.57	1.82	-3.62e-02	1.82	-3.56e-02	-3.37e-02
8	62	301	-15.80	-101.21	-95.77	-21.23	-20.86	1.25	0.21	1.25	0.21	3.33e-02
8	62	302	-14.19	-102.00	-97.49	-18.70	-19.39	0.78	0.15	0.78	0.15	-3.13e-02
8	62	303	-11.41	-101.60	-98.73	-14.27	-15.81	0.46	-8.15e-02	0.39	-1.45e-02	-0.18
8	62	304	-6.61	-104.35	-103.30	-7.66	-10.09	0.40	-0.34	0.15	-8.84e-02	-0.35
8	62	305	-3.80	-110.66	-110.22	-4.24	-6.78	0.88	-0.96	9.21e-03	-8.56e-02	-0.92
8	62	306	-21.24	-94.84	-93.88	-22.20	-8.35	18.38	2.51	18.37	2.52	-0.31
8	62	307	-17.95	-98.42	-97.29	-19.08	-9.47	18.22	2.24	18.21	2.25	-0.30
8	62	308	-14.79	-100.33	-99.35	-15.77	-9.07	17.96	2.09	17.95	2.10	-0.36
8	62	309	-11.59	-102.25	-101.69	-12.15	-7.10	17.79	2.03	17.78	2.04	-0.34
8	62	310	-6.78	-105.75	-105.60	-6.93	-3.85	17.77	1.28	17.76	1.28	-0.34
8	62	311	-4.85	-118.41	-118.37	-4.88	-1.97	18.21	0.65	18.20	0.66	-0.38
8	62	312	-22.87	-95.83	-95.80	-22.90	-1.58	9.35	1.74	9.35	1.74	-0.11
8	62	313	-18.44	-98.67	-98.65	-18.46	-1.31	9.62	1.05	9.61	1.07	-0.34
8	62	314	-14.85	-100.22	-100.21	-14.86	-0.80	9.87	1.14	9.85	1.16	-0.39
8	62	315	-11.11	-102.26	-102.26	-11.11	0.13	10.05	1.12	10.04	1.13	-0.31
8	62	316	-5.97	-106.10	-106.08	-5.98	1.33	10.23	0.74	10.22	0.74	-0.13
8	62	317	-3.53	-113.29	-113.26	-3.56	1.90	10.63	0.48	10.62	0.50	0.37
8	62	318	-25.90	-96.03	-95.92	-26.01	2.79	3.42	-0.94	3.10	-0.62	1.14
8	62	319	-21.43	-91.62	-91.62	-21.43	0.37	2.19	-0.83	2.18	-0.83	0.13
8	62	320	-15.94	-93.65	-93.58	-16.01	-2.30	1.84	-0.17	1.84	-0.17	-9.96e-02
8	62	321	-10.37	-96.44	-96.35	-10.46	-2.85	1.63	0.17	1.57	0.22	-0.28
8	62	322	-5.43	-67.56	-5.45	-67.54	1.15	25.09	3.02	3.56	24.55	-3.42
8	62	323	-43.45	-80.10	-79.92	-43.62	2.52	4.98	-6.54	-5.84	4.28	2.75
8	62	324	-25.03	-91.15	-90.55	-25.63	-6.25	18.25	1.72	18.18	1.79	-1.08
8	62	325	-22.70	-79.52	-23.28	-78.93	5.75	17.04	5.70	5.96	16.78	1.69
8	62	326	-47.54	-69.97	-69.93	-47.57	-0.86	6.34	-9.07	-5.04	2.31	6.78
8	62	327	-5.17	-98.46	-98.42	-5.22	-1.95	1.29	0.13	1.20	0.22	-0.31
8	62	328	-2.91	-102.33	-102.31	-2.92	-1.23	0.88	7.80e-02	0.85	0.11	-0.15
8	62	329	-18.48	-95.45	-90.70	-23.23	-18.52	2.40	-0.53	2.40	-0.53	2.43e-02
8	62	330	-29.91	-94.47	-93.91	-30.47	5.99	-2.71	-4.86	-3.85	-3.72	-1.08
8	62	331	-22.05	-87.85	-84.79	-25.10	-13.85	4.12	-1.68	4.09	-1.65	0.44
8	62	332	-30.88	-84.49	-84.24	-31.12	-3.60	18.01	-8.52e-02	17.77	0.16	-2.08
8	62	333	-33.27	-78.56	-78.32	-33.50	-3.25	6.20	-0.68	6.18	-0.66	0.37
8	62	334	-40.63	-71.45	-71.45	-40.63	0.27	23.27	2.40	23.02	2.65	-2.27
8	62	335	-38.78	-52.74	-44.93	-46.59	6.93	14.51	5.23	11.31	8.42	-4.41
8	62	336	-46.05	-56.18	-48.81	-53.42	4.51	21.30	10.52	21.30	10.52	2.36e-02
8	62	337	-6.96	-60.10	-7.86	-59.20	6.83	23.31	3.64	6.67	20.28	-7.10
8	62	338	-17.56	-64.17	-18.51	-63.22	6.60	22.75	7.13	9.98	19.89	-6.04
8	62	339	-12.24	-78.02	-12.39	-77.87	3.13	19.62	4.78	5.09	19.31	-2.12
8	62	340	-32.76	-68.13	-33.84	-67.05	6.07	18.85	11.62	12.02	18.45	1.66
8	62	341	-3.47	-80.05	-3.59	-79.93	3.12	0.66	-3.79	0.65	-3.79	-0.15
8	62	342	-9.68	-90.30	-9.89	-90.09	4.10	0.59	-5.74	0.59	-5.74	-4.99e-03
8	62	343	-18.78	-89.58	-19.46	-88.91	6.88	0.97	-7.35	0.48	-6.87	1.95
8	62	344	-26.98	-91.58	-91.54	-27.02	-1.62	6.88	1.96	6.88	1.96	4.45e-02
8	62	345	-40.59	-92.93	-44.04	-89.48	12.99	2.34	-9.08	0.88	-7.62	3.81
8	62	346	-31.90	-84.11	-84.09	-31.91	0.84	8.82	-1.04	7.50	0.28	-3.36
8	62	347	-44.80	-82.93	-46.41	-81.32	7.65	4.66	-10.95	1.05	-7.35	6.58
8	62	348	-42.40	-73.80	-73.53	-42.67	2.94	7.90	-2.45	6.55	-1.10	-3.48
8	62	349	-51.32	-58.99	-55.01	-55.30	3.83	9.32	0.71	4.65	5.38	4.29
8	62	350	-31.17	-80.47	-32.16	-79.47	6.94	18.52	2.68	3.59	17.61	3.70
8	62	351	-49.91	-55.77	-50.70	-54.98	2.00	3.61	-11.67	-3.46	-4.60	7.62
8	62	352	-28.86	-98.73	-98.72	-28.86	0.52	4.34	-1.41	2.79	0.14	2.55
8	63	1	-6.77	-102.23	-101.67	-7.32	-7.26	-0.77	-15.77	-15.74	-0.81	-0.69
8	63	2	-37.75	-72.60	-43.56	-66.79	12.99	6.94	-4.16e-02	0.10	6.79	-1.00
8	63	3	-4.53	-90.86	-90.86	-4.54	0.50	0.11	-2.34	-2.34	0.10	5.91e-02

8	63	5	-39.89	-78.71	-78.61	-39.99	2.00	-11.11	-18.72	-17.96	-11.87	2.28
8	63	6	-36.76	-62.20	-61.56	-37.40	4.01	-4.23	-17.32	-17.20	-4.35	1.24
8	63	7	-5.43	-92.46	-92.46	-5.43	0.43	-0.75	-12.98	-12.97	-0.76	-0.37
8	63	8	-56.63	-122.90	-122.72	-56.81	-3.45	-5.83	-17.45	-7.40	-15.88	-3.97
8	63	9	-12.27	-31.19	-28.85	-14.61	-6.23	-0.29	-2.76	-1.84	-1.20	-1.20
8	63	10	-15.02	-18.65	-18.64	-15.03	0.23	-0.72	-2.63	-1.72	-1.63	0.96
8	63	11	-1.67	-92.68	-7.30	-87.05	21.92	-2.84	-22.17	-2.87	-22.14	0.80
8	63	12	-3.34	-102.56	-4.29	-101.61	9.67	-1.89	-29.80	-1.93	-29.76	1.05
8	63	27	-43.19	-71.09	-62.10	-52.18	-13.04	-0.56	-11.65	-3.26	-8.94	-4.76
8	63	37	-28.13	-61.28	-28.29	-61.13	2.28	9.85e-02	-12.20	-1.74	-10.36	4.39
8	63	47	-33.11	-88.56	-34.75	-86.92	9.40	-1.01	-19.70	-1.69	-19.02	3.50
8	63	57	-24.36	-94.35	-28.68	-90.03	16.85	-2.02	-21.82	-2.20	-21.65	1.85
8	63	61	-11.58	-92.92	-17.04	-87.45	20.36	-2.58	-21.84	-2.63	-21.79	0.98
8	63	68	3.08	-95.51	-2.04	-90.39	21.88	-2.92	-24.16	-2.96	-24.12	0.96
8	63	72	1.60	-95.51	-2.16	-91.75	18.73	-3.09	-25.72	-3.14	-25.67	1.04
8	63	76	-36.49	-87.17	-84.60	-39.05	-11.12	-1.37	-8.28	-8.24	-1.41	0.51
8	63	83	-1.96	-82.84	-82.78	-2.02	2.19	-2.98	-11.58	-10.47	-4.09	-2.89
8	63	87	-3.09	-85.26	-85.20	-3.15	-2.33	-1.24	-12.73	-12.46	-1.51	-1.74
8	63	91	-7.34	-91.24	-91.20	-7.38	-1.83	-1.52	-13.51	-13.43	-1.60	-1.02
8	63	95	-8.43	-91.84	-91.84	-8.43	-0.59	-1.61	-13.58	-13.56	-1.63	-0.53
8	63	99	-6.83	-92.31	-92.31	-6.83	6.99e-02	-1.22	-13.19	-13.17	-1.24	-0.50
8	63	106	-15.53	-91.16	-91.14	-15.55	1.40	0.58	-3.06	-2.93	0.45	0.68
8	63	110	-14.50	-91.12	-91.12	-14.50	0.38	-0.43	-2.76	-2.72	-0.46	0.30
8	63	114	-14.85	-91.81	-91.81	-14.85	-0.66	-0.27	-2.40	-2.40	-0.27	6.95e-03
8	63	118	-13.18	-93.08	-93.08	-13.19	-0.74	-7.46e-02	-2.19	-2.19	-7.93e-02	-9.87e-02
8	63	122	-8.24	-94.11	-94.11	-8.24	9.29e-05	4.12e-02	-2.17	-2.17	3.95e-02	-6.10e-02
8	63	129	-33.03	-95.77	-90.33	-38.47	-17.66	-1.28	-11.41	-11.40	-1.29	-0.15
8	63	133	-28.68	-97.15	-92.03	-33.79	-18.01	-1.34	-12.68	-12.68	-1.34	-0.20
8	63	137	-22.55	-97.25	-93.07	-26.74	-17.18	-1.42	-13.48	-13.48	-1.42	-0.20
8	63	141	-15.94	-95.86	-93.15	-18.65	-14.47	-1.64	-14.20	-14.19	-1.64	-0.27
8	63	145	-9.93	-99.02	-97.91	-11.03	-9.86	-1.29	-14.95	-14.94	-1.29	-0.29
8	63	151	-41.32	-81.39	-81.34	-41.37	1.38	-1.07	-6.93	-6.67	-1.32	1.19
8	63	158	-26.28	-90.60	-90.59	-26.29	0.89	9.26	-2.77	-2.70	9.19	0.93
8	63	162	-35.13	-93.42	-88.79	-39.76	-15.76	-1.29	-10.14	-10.14	-1.29	7.53e-02
8	63	171	-3.06	-104.30	-4.72	-102.64	12.86	-2.67	-28.21	-2.69	-28.19	0.70
8	63	176	-18.41	-90.12	-90.11	-18.43	1.04	3.52	-3.49	-3.34	3.38	0.99
8	63	180	-12.39	-117.08	-113.13	-16.34	19.95	-5.93	-13.33	-8.78	-10.48	-3.60
8	63	221	-28.02	-78.55	-77.24	-29.32	8.03	-0.60	-13.68	-12.83	-1.45	-3.23
8	63	222	-39.70	-90.94	-89.65	-41.00	8.05	-1.23	-17.62	-17.58	-1.27	-0.86
8	63	223	-44.18	-88.79	-88.34	-44.62	4.43	-1.01	-17.76	-17.55	-1.22	1.88
8	63	224	-37.70	-77.53	-77.52	-37.70	-0.48	-4.29e-02	-15.24	-14.09	-1.20	4.03
8	63	225	-19.37	-55.99	-55.99	-19.37	0.14	0.26	-6.78	-5.09	-1.43	-3.01
8	63	226	-24.06	-50.94	-50.86	-24.14	-1.52	0.92	-9.61	-7.15	-1.54	4.46
8	63	239	-37.30	-74.87	-40.74	-71.44	10.83	15.68	2.22	2.38	15.52	-1.46
8	63	270	-56.64	-78.89	-78.20	-57.33	-3.84	10.46	6.51	9.57	7.40	-1.64
8	63	271	-44.19	-86.82	-86.78	-44.22	1.20	3.97	-7.16	-6.86	3.66	1.83
8	63	272	-28.08	-96.62	-95.91	-28.79	-6.97	8.37	-10.38	-0.39	-1.63	9.35
8	63	273	-44.01	-62.58	-48.28	-58.31	7.82	17.49	-5.75	-5.70	17.44	1.07
8	63	274	-31.55	-75.55	-35.79	-71.31	12.98	18.76	-0.16	-4.84e-02	18.65	1.43
8	63	275	-50.83	-62.16	-52.71	-60.28	4.21	17.10	-0.98	0.97	15.15	-5.60
8	63	276	-13.41	-90.87	-18.08	-86.20	18.44	-0.39	-7.57	-1.25	-6.70	2.34
8	63	277	-18.07	-88.19	-23.55	-82.71	18.82	-0.72	-5.63	-1.13	-5.22	1.35
8	63	278	-24.31	-87.80	-29.41	-82.70	17.26	2.02e-02	-5.63	-9.49e-02	-5.52	0.80
8	63	279	-24.33	-103.69	-101.50	-26.53	-13.01	10.18	-7.35	5.42	-2.59	7.80
8	63	280	-36.90	-82.17	-80.66	-38.42	-8.14	5.11	-9.93	-1.45	-3.37	7.46
8	63	281	-56.82	-66.56	-66.09	-57.28	2.07	14.38	12.00	13.24	13.14	1.19
8	63	282	-50.49	-63.70	-63.14	-51.05	-2.64	5.51	-2.78	-0.83	3.56	-3.52
8	63	283	-54.82	-98.00	-89.86	-62.96	-16.89	1.04	-6.80	0.39	-6.16	-2.15
8	63	284	-38.34	-68.14	-42.80	-63.68	10.63	18.47	-3.88	-0.56	15.15	7.95
8	63	285	-43.01	-82.40	-80.29	-45.12	-8.87	15.18	1.72	13.17	3.74	4.80
8	63	286	-53.66	-65.89	-65.50	-54.06	-2.17	16.39	10.26	16.04	10.61	-1.43
8	63	287	-43.75	-73.92	-45.61	-72.05	7.27	12.78	7.10	7.10	12.77	-0.18
8	63	288	-45.23	-77.94	-77.21	-45.96	4.81	6.58	-7.79	-3.33	2.11	-6.65
8	63	289	-53.95	-66.62	-54.32	-66.24	2.13	13.64	4.38	8.72	9.30	4.62
8	63	290	-53.97	-72.70	-72.54	-54.12	1.68	15.11	11.56	14.66	12.01	-1.19
8	63	291	-43.68	-84.16	-83.15	-44.69	6.31	5.75	-3.51	-3.06	5.31	-1.98
8	63	292	-22.67	-112.68	-112.51	-22.83	3.86	-0.15	-6.81	-0.50	-6.46	1.48
8	63	293	-56.06	-63.13	-57.04	-62.15	2.44	17.03	9.95	11.62	15.36	-3.01
8	63	294	-17.62	-86.54	-86.42	-17.74	-2.84	-1.15	-3.71	-3.46	-1.40	-0.76
8	63	295	-11.17	-90.79	-90.62	-11.33	-3.62	-0.77	-4.39	-4.28	-0.87	-0.61
8	63	296	-7.31	-91.96	-91.88	-7.40	-2.75	-0.58	-4.64	-4.55	-0.67	-0.62
8	63	297	-3.72	-92.16	-92.14	-3.75	-1.48	-0.19	-4.56	-4.46	-0.29	-0.66
8	63	298	-1.84	-93.80	-93.79	-1.84	-0.68	-5.81e-02	-4.44	-4.39	-0.10	-0.45
8	63	299	-48.30	-70.65	-69.27	-49.68	-5.38	3.10	-11.91	-4.03	-4.78	-7.49
8	63	300	-27.28	-92.11	-89.91	-29.48	-11.74	1.74	-0.72	0.80	0.23	-1.20

8	63	301	-23.46	-94.22	-91.91	-25.78	-12.59	1.21	-0.48	0.35	0.38	-0.84
8	63	302	-19.14	-95.13	-93.14	-21.13	-12.14	0.80	-0.66	-6.66e-02	0.20	-0.72
8	63	303	-14.19	-95.26	-93.99	-15.46	-10.07	0.51	-1.07	-0.50	-6.12e-02	-0.76
8	63	304	-7.66	-98.44	-97.97	-8.13	-6.56	0.39	-1.37	-0.84	-0.14	-0.81
8	63	305	-4.30	-105.50	-105.29	-4.51	-4.54	0.73	-1.95	-1.09	-0.13	-1.25
8	63	306	-25.43	-90.52	-90.45	-25.50	-2.16	14.33	2.92	14.22	3.03	-1.09
8	63	307	-21.42	-92.81	-92.65	-21.58	-3.35	14.83	2.39	14.78	2.44	-0.78
8	63	308	-17.23	-94.04	-93.89	-17.38	-3.37	14.89	1.91	14.83	1.97	-0.86
8	63	309	-12.90	-95.37	-95.31	-12.96	-2.23	14.95	1.80	14.89	1.85	-0.82
8	63	310	-7.20	-97.72	-97.71	-7.21	-0.74	15.10	1.16	15.06	1.20	-0.74
8	63	311	-4.81	-108.17	-108.17	-4.81	-6.62e-02	15.62	0.60	15.59	0.64	-0.71
8	63	312	-23.27	-92.43	-92.12	-23.57	4.58	5.53	2.82	5.53	2.82	1.79e-02
8	63	313	-19.31	-93.81	-93.55	-19.57	4.36	6.27	1.17	6.23	1.21	-0.44
8	63	314	-15.51	-94.30	-94.08	-15.73	4.23	6.84	0.88	6.77	0.96	-0.65
8	63	315	-11.20	-95.12	-94.90	-11.42	4.35	7.34	0.93	7.28	0.98	-0.60
8	63	316	-5.83	-96.45	-96.26	-6.02	4.13	7.76	0.66	7.74	0.69	-0.41
8	63	317	-3.13	-99.05	-98.91	-3.28	3.75	8.26	0.48	8.25	0.48	8.70e-02
8	63	318	-21.24	-90.00	-89.91	-21.33	-2.52	3.33	0.20	2.97	0.56	1.01
8	63	319	-17.24	-87.83	-87.41	-17.66	-5.43	1.95	-0.56	1.95	-0.56	2.64e-02
8	63	320	-12.43	-90.36	-89.65	-13.14	-7.41	1.44	-0.25	1.42	-0.22	-0.19
8	63	321	-7.98	-92.22	-91.65	-8.55	-6.93	1.22	-1.31e-04	1.05	0.17	-0.42
8	63	322	-6.00	-92.60	-6.11	-92.49	3.14	17.81	2.38	2.39	17.81	0.26
8	63	323	-45.58	-80.31	-80.01	-45.88	3.23	6.28	-4.12	-3.25	5.42	2.87
8	63	324	-29.26	-87.94	-87.94	-29.26	-2.19e-02	13.72	1.71	13.21	2.22	-2.43
8	63	325	-19.38	-81.81	-21.58	-79.62	11.49	15.26	1.61	2.81	14.06	3.87
8	63	326	-50.14	-68.97	-68.95	-50.16	-0.67	8.16	-7.76	-3.08	3.48	7.26
8	63	327	-4.00	-92.45	-92.19	-4.25	-4.76	0.97	-0.14	0.63	0.20	-0.51
8	63	328	-2.10	-93.09	-92.97	-2.22	-3.29	0.67	-0.27	0.29	0.11	-0.46
8	63	329	-31.22	-89.80	-88.16	-32.86	-9.67	2.20	-1.11	1.43	-0.35	-1.40
8	63	330	-24.18	-87.69	-87.68	-24.20	1.01	-1.43	-3.29	-1.73	-2.99	-0.68
8	63	331	-36.16	-84.31	-83.67	-36.79	-5.50	3.69	-1.29	3.40	-1.00	-1.15
8	63	332	-34.72	-83.67	-83.53	-34.86	2.68	13.97	-0.82	12.88	0.27	-3.87
8	63	333	-46.60	-77.44	-77.08	-46.96	3.33	6.02	0.98	5.69	1.30	-1.24
8	63	334	-42.82	-73.77	-72.51	-44.08	6.11	18.79	1.38	18.30	1.87	-2.89
8	63	335	-39.73	-66.78	-45.80	-60.71	11.29	11.91	6.48	8.53	9.85	-2.63
8	63	336	-43.42	-63.44	-50.71	-56.15	9.63	15.98	7.99	15.52	8.45	1.88
8	63	337	-8.51	-89.40	-9.55	-88.36	9.11	20.56	4.59	4.96	20.19	-2.43
8	63	338	-17.67	-77.78	-19.35	-76.10	9.92	18.43	6.86	7.07	18.21	-1.57
8	63	339	-11.07	-89.27	-11.64	-88.69	6.70	14.89	3.02	3.13	14.77	1.15
8	63	340	-31.60	-72.07	-34.86	-68.81	11.02	17.76	5.24	7.17	15.84	4.52
8	63	341	-2.38	-100.29	-2.82	-99.85	6.53	8.77e-02	-10.22	-0.23	-9.91	1.77
8	63	342	-5.37	-98.50	-6.42	-97.45	9.82	-0.24	-9.95	-0.51	-9.68	1.59
8	63	343	-9.58	-91.82	-12.58	-88.82	15.42	-0.13	-8.99	-0.90	-8.23	2.49
8	63	344	-26.31	-89.80	-89.39	-26.72	5.09	3.98	2.45	2.55	3.88	-0.39
8	63	345	-30.75	-87.37	-34.14	-83.98	13.43	2.10	-7.06	1.57	-6.53	2.14
8	63	346	-31.18	-84.42	-83.47	-32.13	7.06	6.30	-4.47	1.79	3.83e-02	-5.31
8	63	347	-38.77	-80.25	-39.67	-79.35	6.05	5.34	-9.68	2.32	-6.67	6.01
8	63	348	-38.63	-77.40	-74.99	-41.04	9.36	2.48	-6.22	-2.50e-02	-3.71	-3.94
8	63	349	-45.23	-65.66	-57.92	-52.97	9.91	6.72	-6.11	-1.67	2.28	6.10
8	63	350	-26.13	-78.99	-29.68	-75.44	13.22	17.05	-0.74	0.44	15.87	4.43
8	63	351	-47.95	-57.55	-47.95	-57.55	-0.13	5.02	-11.86	-2.53	-4.30	8.39
8	63	352	-23.94	-92.60	-92.48	-24.06	-2.88	5.24	-1.02	2.10	2.12	3.13
8	65	1	-6.49	-103.98	-103.35	-7.12	-7.82	-0.87	-18.06	-17.99	-0.94	-1.08
8	65	2	-40.30	-66.94	-45.36	-61.88	10.45	11.07	-4.48	-4.47	11.06	-0.46
8	65	3	-3.98	-95.80	-95.79	-3.99	0.93	0.18	-0.80	-0.77	0.15	0.18
8	65	5	-48.51	-81.31	-81.26	-48.57	1.34	-2.31	-7.29	-6.50	-3.09	1.82
8	65	6	-46.45	-62.81	-62.03	-47.23	3.49	4.94	-4.45	-4.32	4.82	1.07
8	65	7	-5.20	-92.85	-92.84	-5.21	0.88	-0.75	-13.06	-13.06	-0.76	-0.22
8	65	8	-70.92	-140.30	-140.29	-70.93	0.85	-5.02	-14.56	-8.21	-11.37	-4.50
8	65	9	-6.44	-34.08	-29.67	-10.86	-10.12	-0.92	-1.94	-1.94	-0.92	-7.45e-02
8	65	10	-2.65	-18.06	-13.84	-6.88	6.87	-0.36	-3.26	-1.83	-1.78	-1.45
8	65	11	-15.99	-99.51	-22.30	-93.21	22.07	-2.96	-25.44	-2.98	-25.42	0.61
8	65	12	-6.25	-99.93	-6.66	-99.51	6.22	-2.12	-30.69	-2.14	-30.67	0.71
8	65	27	-38.58	-76.32	-69.61	-45.28	-14.42	-0.33	-8.28	-3.06	-5.56	-3.77
8	65	37	-22.66	-58.48	-24.96	-56.17	8.79	-1.74	-9.74	-1.97	-9.50	1.35
8	65	47	-31.86	-91.07	-36.15	-86.77	15.37	-1.89	-18.83	-2.05	-18.66	1.67
8	65	57	-29.48	-100.84	-36.76	-93.55	21.60	-2.36	-23.06	-2.45	-22.97	1.32
8	65	61	-22.61	-100.40	-30.22	-92.79	23.11	-2.71	-24.27	-2.75	-24.24	0.89
8	65	68	-10.96	-99.57	-15.51	-95.02	19.57	-3.06	-26.76	-3.07	-26.74	0.57
8	65	72	-8.87	-97.48	-11.49	-94.86	15.03	-3.32	-27.65	-3.34	-27.64	0.68
8	65	76	-42.01	-91.67	-88.65	-45.03	-11.87	-2.45	-12.34	-12.33	-2.45	-0.17
8	65	83	-16.21	-88.83	-88.01	-17.03	7.68	-2.28	-12.40	-11.48	-3.19	-2.91
8	65	87	-10.72	-86.59	-86.58	-10.73	0.41	-1.28	-13.53	-13.29	-1.51	-1.68
8	65	91	-10.06	-92.03	-92.03	-10.07	-0.36	-1.60	-14.15	-14.09	-1.66	-0.89
8	65	95	-9.03	-92.59	-92.59	-9.04	0.46	-1.67	-13.98	-13.97	-1.69	-0.39

8	65	99	-6.83	-93.51	-93.50	-6.83	0.72	-1.25	-13.39	-13.38	-1.26	-0.36
8	65	106	-19.52	-95.78	-95.65	-19.64	3.07	1.37	-0.20	0.90	0.26	0.72
8	65	110	-16.32	-94.59	-94.52	-16.39	2.35	0.96	-0.28	0.78	-0.10	0.44
8	65	114	-14.56	-94.37	-94.36	-14.58	1.17	0.60	-3.20e-02	0.54	2.82e-02	0.19
8	65	118	-11.93	-95.48	-95.48	-11.93	0.65	0.23	7.46e-02	0.20	0.11	6.80e-02
8	65	122	-7.17	-97.07	-97.06	-7.18	0.78	0.16	-0.28	-0.27	0.15	6.82e-02
8	65	129	-31.38	-97.49	-92.35	-36.52	-17.71	-1.71	-14.40	-14.36	-1.75	-0.70
8	65	133	-26.22	-98.42	-93.49	-31.15	-18.20	-1.66	-15.25	-15.20	-1.71	-0.81
8	65	137	-20.36	-98.59	-94.46	-24.49	-17.49	-1.69	-15.89	-15.84	-1.74	-0.82
8	65	141	-14.69	-97.70	-94.98	-17.42	-14.79	-1.87	-16.52	-16.47	-1.92	-0.84
8	65	145	-9.54	-101.84	-100.68	-10.70	-10.29	-1.46	-17.24	-17.20	-1.50	-0.74
8	65	151	-49.16	-85.10	-85.09	-49.17	-0.73	0.46	-10.73	-10.64	0.37	-1.00
8	65	158	-34.92	-95.55	-95.51	-34.96	1.61	5.70	0.89	1.04	5.55	0.84
8	65	162	-35.55	-95.79	-91.23	-40.11	-15.93	-1.47	-13.55	-13.53	-1.49	-0.54
8	65	171	-8.20	-102.43	-9.09	-101.54	9.11	-2.88	-29.19	-2.89	-29.18	0.49
8	65	176	-23.99	-94.91	-94.84	-24.06	2.32	2.25	0.12	0.61	1.75	0.90
8	65	180	-27.25	-135.73	-127.24	-35.74	29.13	-4.86	-13.05	-10.15	-7.75	-3.92
8	65	221	-19.21	-79.44	-77.70	-20.95	10.09	-1.60	-12.98	-12.92	-1.67	-0.83
8	65	222	-29.64	-91.24	-88.93	-31.95	11.70	-1.56	-17.40	-17.37	-1.59	0.67
8	65	223	-33.48	-88.35	-87.09	-34.74	8.23	-1.33	-17.09	-16.84	-1.58	1.98
8	65	224	-26.66	-75.03	-74.76	-26.93	3.59	-1.18	-13.47	-12.99	-1.66	2.38
8	65	225	-13.65	-58.91	-58.86	-13.70	-1.44	-1.10	-5.34	-5.12	-1.32	-0.95
8	65	226	-14.00	-47.04	-46.54	-14.49	4.02	-1.32	-6.85	-6.33	-1.83	1.61
8	65	239	-38.58	-81.68	-41.89	-78.37	11.48	6.50	2.09	2.34	6.25	1.02
8	65	270	-62.92	-81.56	-81.18	-63.30	-2.62	7.77	3.92	4.64	7.04	-1.51
8	65	271	-51.88	-91.46	-91.43	-51.91	1.03	3.41	-1.45	-0.93	2.89	1.50
8	65	272	-34.58	-102.82	-102.42	-34.98	-5.18	7.01	-4.18	2.54	0.28	5.48
8	65	273	-45.60	-68.82	-48.38	-66.04	7.54	13.52	0.14	0.23	13.43	1.05
8	65	274	-33.70	-82.42	-37.38	-78.75	12.86	7.50	0.64	0.93	7.21	1.38
8	65	275	-51.37	-69.23	-52.51	-68.09	4.37	11.56	2.97	3.08	11.46	-0.96
8	65	276	-19.52	-94.94	-23.47	-91.00	16.79	-1.49	-13.42	-1.63	-13.27	1.32
8	65	277	-23.93	-94.46	-29.41	-88.98	18.87	-1.16	-12.50	-1.29	-12.37	1.20
8	65	278	-28.21	-94.37	-34.31	-88.27	19.14	-0.44	-12.04	-0.65	-11.83	1.54
8	65	279	-30.63	-111.90	-109.95	-32.58	-12.42	6.82	-3.39	3.65	-0.23	4.72
8	65	280	-44.32	-85.45	-83.92	-45.85	-7.79	5.99	-1.54	2.50	1.96	3.76
8	65	281	-57.42	-67.44	-65.34	-59.52	4.08	10.06	4.55	6.59	8.01	2.66
8	65	282	-57.65	-64.69	-63.53	-58.80	-2.60	7.78	2.27	2.66	7.38	-1.42
8	65	283	-64.01	-106.12	-98.29	-71.84	-16.38	0.52	-5.56	-1.78	-3.26	-2.95
8	65	284	-39.45	-73.35	-42.84	-69.96	10.18	12.61	0.17	1.13	11.65	3.32
8	65	285	-49.99	-86.00	-83.66	-52.34	-8.88	10.27	4.20	8.70	5.77	2.66
8	65	286	-60.36	-66.34	-65.82	-60.88	-1.68	9.90	9.54	9.54	9.90	-3.91e-03
8	65	287	-43.71	-79.54	-46.06	-77.19	8.87	6.89	2.36	4.20	5.06	2.22
8	65	288	-42.23	-80.10	-78.76	-43.57	7.00	3.60	-7.68	-5.51	1.43	-4.45
8	65	289	-52.11	-68.90	-53.69	-67.33	4.89	8.45	-1.40	3.83	3.22	4.92
8	65	290	-57.04	-73.26	-72.53	-57.76	3.35	9.14	7.70	7.73	9.11	0.20
8	65	291	-40.20	-84.95	-82.90	-42.26	9.37	3.20	-6.22	-6.22	3.20	-0.20
8	65	292	-30.09	-126.12	-125.21	-31.01	9.31	-1.70	-4.80	-1.71	-4.79	0.21
8	65	293	-55.65	-69.12	-56.56	-68.21	3.39	10.60	7.20	7.23	10.57	0.32
8	65	294	-23.81	-88.66	-88.64	-23.83	1.15	-1.24	-4.41	-4.15	-1.50	-0.87
8	65	295	-15.55	-91.96	-91.95	-15.56	-0.94	-0.83	-4.75	-4.63	-0.95	-0.68
8	65	296	-9.61	-93.10	-93.09	-9.62	-0.85	-0.58	-4.64	-4.53	-0.69	-0.67
8	65	297	-4.62	-93.78	-93.78	-4.62	-0.35	-0.17	-4.20	-4.09	-0.28	-0.66
8	65	298	-2.16	-95.02	-95.02	-2.16	3.54e-02	-3.64e-02	-3.82	-3.77	-7.98e-02	-0.40
8	65	299	-43.77	-75.20	-74.27	-44.71	-5.34	1.96	-9.64	-4.66	-3.01	-5.74
8	65	300	-28.26	-94.69	-92.30	-30.64	-12.35	0.28	-3.09	-2.48	-0.33	-1.30
8	65	301	-23.85	-96.12	-93.67	-26.30	-13.07	0.34	-2.95	-2.43	-0.18	-1.20
8	65	302	-19.19	-96.81	-94.73	-21.27	-12.54	0.37	-2.86	-2.36	-0.13	-1.17
8	65	303	-14.00	-97.23	-95.90	-15.33	-10.44	0.37	-2.85	-2.30	-0.18	-1.21
8	65	304	-7.44	-101.10	-100.58	-7.96	-6.94	0.38	-2.78	-2.25	-0.15	-1.18
8	65	305	-4.08	-107.84	-107.60	-4.32	-4.95	0.74	-3.13	-2.28	-0.11	-1.60
8	65	306	-27.37	-93.32	-93.12	-27.56	-3.58	11.68	1.83	11.64	1.87	-0.65
8	65	307	-22.95	-94.90	-94.63	-23.22	-4.39	12.68	1.71	12.65	1.73	-0.53
8	65	308	-18.28	-95.78	-95.57	-18.49	-4.10	13.53	1.71	13.50	1.74	-0.58
8	65	309	-13.52	-97.30	-97.20	-13.62	-2.84	14.37	1.85	14.34	1.88	-0.57
8	65	310	-7.49	-100.27	-100.26	-7.51	-1.21	15.23	1.28	15.20	1.30	-0.59
8	65	311	-5.01	-111.56	-111.56	-5.01	-0.42	16.24	0.72	16.21	0.75	-0.67
8	65	312	-26.32	-95.25	-95.17	-26.39	2.32	6.97	1.76	6.95	1.78	0.32
8	65	313	-21.44	-96.07	-95.99	-21.52	2.49	7.67	1.02	7.66	1.02	0.12
8	65	314	-16.84	-96.23	-96.13	-16.94	2.84	8.31	1.10	8.31	1.10	2.69e-02
8	65	315	-11.98	-97.12	-96.99	-12.11	3.36	8.88	1.19	8.88	1.19	1.63e-02
8	65	316	-6.23	-99.08	-98.95	-6.36	3.46	9.39	0.83	9.39	0.83	6.86e-02
8	65	317	-3.50	-103.44	-103.34	-3.61	3.22	10.03	0.54	10.01	0.56	0.46
8	65	318	-25.99	-96.47	-96.31	-26.15	3.34	4.27	-1.24e-02	4.18	7.62e-02	0.61
8	65	319	-21.76	-91.10	-91.09	-21.77	0.39	3.15	-0.53	3.13	-0.51	-0.26
8	65	320	-16.19	-92.17	-92.07	-16.29	-2.73	2.68	-0.19	2.59	-9.70e-02	-0.50

8	65	321	-10.28	-94.05	-93.89	-10.43	-3.59	2.42	7.93e-03	2.19	0.23	-0.70
8	65	322	-5.63	-83.03	-5.68	-82.99	1.84	7.41	0.35	0.68	7.08	1.50
8	65	323	-41.50	-80.24	-79.13	-42.60	6.45	3.58	-7.37	-6.18	2.40	3.40
8	65	324	-31.56	-91.44	-91.38	-31.62	-1.81	10.95	1.43	10.74	1.63	-1.39
8	65	325	-20.87	-85.21	-22.53	-83.56	10.19	6.42	0.25	0.85	5.82	1.83
8	65	326	-45.82	-67.63	-67.19	-46.25	3.05	3.87	-8.97	-5.21	0.12	5.84
8	65	327	-4.98	-95.02	-94.93	-5.07	-2.80	2.06	-6.54e-02	1.77	0.22	-0.73
8	65	328	-2.59	-96.54	-96.49	-2.64	-2.07	1.71	-0.12	1.46	0.12	-0.63
8	65	329	-32.72	-92.93	-91.02	-34.63	-10.55	0.12	-3.10	-2.31	-0.66	-1.38
8	65	330	-29.54	-93.98	-93.32	-30.20	6.52	-1.62	-3.81	-2.63	-2.79	-1.09
8	65	331	-37.62	-88.35	-87.45	-38.52	-6.70	0.57	-2.32	-1.31	-0.45	-1.38
8	65	332	-37.49	-87.42	-87.41	-37.50	0.90	10.43	1.13	9.83	1.72	-2.27
8	65	333	-47.75	-80.64	-80.54	-47.85	1.83	4.54	-1.52	-5.42e-02	3.08	-2.59
8	65	334	-46.45	-76.94	-76.08	-47.31	5.03	12.41	4.08	11.97	4.53	-1.87
8	65	335	-42.39	-66.58	-47.53	-61.44	9.90	10.99	0.46	1.26	10.18	-2.80
8	65	336	-45.90	-65.95	-51.89	-59.96	9.18	9.02	7.30	7.40	8.92	0.41
8	65	337	-7.09	-75.71	-7.91	-74.88	7.48	16.29	1.72	1.80	16.21	1.10
8	65	338	-17.55	-77.35	-18.86	-76.04	8.78	13.82	2.35	2.36	13.81	-0.32
8	65	339	-11.68	-87.99	-12.04	-87.63	5.23	6.75	0.67	0.96	6.46	1.29
8	65	340	-31.89	-75.62	-34.52	-72.98	10.41	11.89	2.47	2.80	11.56	1.73
8	65	341	-3.58	-94.98	-3.77	-94.80	4.12	-0.66	-15.70	-0.84	-15.53	1.62
8	65	342	-8.20	-96.89	-8.77	-96.32	7.08	-1.16	-14.89	-1.27	-14.78	1.22
8	65	343	-14.77	-94.04	-16.85	-91.96	12.69	-1.54	-14.07	-1.72	-13.90	1.45
8	65	344	-30.34	-93.07	-92.96	-30.44	2.59	4.95	2.43	4.93	2.45	0.21
8	65	345	-32.08	-92.94	-37.18	-87.85	16.86	0.64	-11.98	5.76e-02	-11.40	2.66
8	65	346	-35.70	-87.54	-87.09	-36.15	4.83	5.85	0.10	4.49	1.46	-2.44
8	65	347	-37.43	-82.25	-40.15	-79.53	10.69	2.00	-11.54	-5.36e-03	-9.54	4.81
8	65	348	-44.48	-79.20	-77.43	-46.25	7.65	3.77	1.07	3.15	1.69	-1.14
8	65	349	-49.52	-67.68	-58.52	-58.67	9.08	8.40	-0.53	1.27	6.60	3.59
8	65	350	-28.16	-84.24	-31.09	-81.31	12.50	7.01	-0.17	0.45	6.39	2.01
8	65	351	-42.80	-55.73	-45.47	-53.05	5.23	0.99	-9.95	-3.44	-5.53	5.37
8	65	352	-29.36	-99.52	-99.49	-29.40	1.55	5.18	0.22	4.19	1.21	1.98

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		-201.31	-199.47	-139.23	-43.41		-46.13	-30.11	-45.98	-13.61
	19.22		3.59	5.17	65.04	43.14		36.74	41.82	14.58



## 16 VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

### 16.1 LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

Per le pareti in c.a. progettate in ottemperanza al cap. 7 del DM 14-01-08 vengono riportate 4 tabelle. In particolare per ogni parete si riportano:

- una tabella riassuntiva della geometria e dello stato di verifica per compressione assiale, pressoflessione e taglio; per le estese debolmente armate anche lo stato di verifica relativo alla snellezza.
- una tabella nella quale, per ogni quota significativa, si riporta l'armatura verticale di base e della zona confinata, eventuale armatura concentrata all'estremità per le estese debolmente armate, l'armatura orizzontale, l'esito delle 5 verifiche condotte, lo sforzo assiale aggiuntivo per  $q$  superiore a 2 e i valori di inviluppo di taglio e momento
- una tabella nella quale, per ogni quota significativa, si riportano le azioni che hanno reso massimo il valore delle 5 verifiche condotte (in particolare le verifiche a taglio sono influenzate dal valore dello sforzo assiale e del momento). 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
- una tabella riassuntiva dei parametri utilizzati per le verifiche a taglio per ogni quota significativa.

<b><u>Tabella 1</u></b>	
<b>H totale</b>	Altezza complessiva della parete
<b>Spessore</b>	Spessore della parete
<b>H critica</b>	Altezza come da punto 7.4.4.5.1 per traslazione momento
<b>H critica V</b>	Altezza come da punto 7.4.6.1.4 per la definizione della zona critica e zona confinata
<b>L totale</b>	Larghezza di base della parete
<b>L confinata</b>	Larghezza della zona confinata
<b>Verif. N</b>	Verifica di cui al punto 7.4.4.5.2.1 compressione semplice
<b>Verif. N-M</b>	Verifica di cui al punto 7.4.4.5.2.1 pressoflessione
<b>Verif. Snellezza</b>	Verifica di cui al punto 7.4.4.5.2.1 limitazione compressione per prevenire l'instabilità
<b>Fattore V</b>	Fattore di amplificazione del taglio di cui al punto 7.4.4.5.1
<b>Diagramma V</b>	Diagramma elaborato per effetto modi superiori come da fig. 7.4.2
<b>Verif. V</b>	Verifica di cui al punto 7.4.4.5.2.2 taglio (compressione cls, trazione acciaio, scorrimento in zona critica)
<b><u>Tabella 2</u></b>	

<b>Af conf.</b>	Numero e diametro armatura presente in una zona confinata
<b>Af std</b>	Diametro e passo armatura in zona non confinata (doppia maglia)
<b>Af estremi</b>	Diametro dei ferri di estremità del pannello; se posto uguale 0, viene utilizzato il diametro standard
<b>Af V (ori)</b>	Diametro e passo armatura orizzontale (doppia maglia)
<b>Ver. N</b>	Rapporto tra azione di calcolo e resistenza a compressione (normalizzato a 1 in quanto da confrontare con 40% in CDB e 35 % in CDA)
<b>Ver. N/M</b>	Rapporto tra azione di calcolo e resistenza a pressoflessione
<b>Ver. Snell.</b>	Rapporto tra la snellezza dell'elemento e la snellezza lim. come da formula 4.1.33
<b>Ver. V cls</b>	Rapporto tra azione di calcolo e resistenza a taglio-compressione
<b>Ver. V acc</b>	Rapporto tra azione di calcolo e resistenza a taglio-trazione
<b>Ver. V scorr.</b>	Rapporto tra azione di calcolo e resistenza a taglio scorrimento
<b>N add</b>	Sforzo assiale di cui al punto 7.4.4.5.1 da sommare e sottrarre nelle verifiche quando q supera 2
<b>M invil</b>	Inviluppo del momento come al punto 7.4.4.5.1 (informativo)
<b>V invil</b>	Inviluppo del taglio come al punto 7.4.4.5.1 (informativo)
<b><u>Tabella 3</u></b>	
<b>N v.N</b>	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
<b>N v.M/N, M v.M/N</b>	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
<b>N v.M/N, M v.M/N Mo v.M/N</b>	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
<b>N v.Vcls, V v.Vcls,</b>	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore
<b>N v.Vacc, M v.Vacc, V v.Vacc,</b>	Valore dello sforzo assiale, momento e taglio per cui Ver. V. acc attinge il massimo valore
<b>N v.Vscorr, M v.Vscorr, V v.Vscorr,</b>	Valore dello sforzo assiale, momento e taglio per cui Ver. V. scorr.e attinge il massimo valore
<b><u>Tabella 4</u></b>	
<b>CtgT Vcls</b>	Valore di ctg(teta) adottato nella verifica V compressione cls
<b>Vrsd Vcls</b>	Valore della resistenza a taglio trazione (armatura di calcolo)

<b>Vrcd Vcls</b>	Valore della resistenza a taglio compressione
<b>CtgT Vacc</b>	Valore di ctg(teta) adottato nella verifica V trazione armatura
<b>Vrsd Vacc</b>	Valore della resistenza a taglio trazione (armatura presente)
<b>Vrcd Vacc</b>	Valore della resistenza a taglio compressione
<b>Vdd</b>	Valore del contributo alla resistenza allo scorrimento come da [7.4.19]
<b>Vid</b>	Valore del contributo alla resistenza allo scorrimento come da [7.4.20]
<b>Vfd</b>	Valore del contributo alla resistenza allo scorrimento come da [7.4.21]

Nel caso dei gusci e nel caso in cui la progettazione della parete sia integrata o effettuata del tutto con progettazione locale si produce una tabella nella quale vengono riportati per ogni macroelemento il numero dello stesso ed il codice di verifica.

Per la progettazione con il metodo degli stati limite vengono riportati il rapporto  $x/d$ , la verifica per sollecitazioni ultime e la verifica per compressione media con l'indicazione delle due combinazioni in cui si sono attinti i rispettivi valori.

Nel caso in cui si sia proceduto alla progettazione con le tensioni ammissibili vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima compressione media nel calcestruzzo, massima tensione nell'acciaio) con l'indicazione delle combinazioni in cui si sono attinti i rispettivi valori.

Per ogni elemento viene riportata inoltre la maglia di armatura necessaria in relazione alle risultanze della progettazione dei nodi dell'elemento stesso (diametri in mm, passi in cm). 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.

In particolare i simboli utilizzati assumono il seguente significato:

<b>M_S</b>	macroelemento di tipo setto (elementi verticali contigui ed analoghi per proprietà)
<b>M_G</b>	macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)
<b>Stato</b>	codice di verifica dell'elemento
<b>Nodo</b>	numero del nodo
<b>x/d</b>	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)

<b>verif.</b>	rapporto Sd/Su con sollecitazioni ultime: valore minore o uguale a 1 per verifica positiva	
<b>Ver.rd</b>	rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd): valore minore o uguale a 1 per verifica positiva	
<b>Rete pr</b>	maglia di armatura (diametro/passaggio) in direzione principale inferiore e superiore	
<b>Rete sec</b>	maglia di armatura (diametro/passaggio) in direzione secondaria inferiore e superiore	
<b>Aggiuntivi</b>	relativa armatura aggiuntiva (diametro/passaggio) inferiore (i) e superiore (s) eventualmente differenziate	
<b>sc max</b>	massima tensione di compressione del calcestruzzo	
<b>sc med</b>	massima tensione media di compressione del calcestruzzo	
<b>sf max</b>	massima tensione dell'acciaio	
<b>Rif. cmb</b>	combinazioni di carico in cui si verificano i valori riportati	
<b>Af pr-</b>	quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)	
<b>Af pr+</b>	quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)	
<b>Af sec-</b>	<b>Af sec+</b>	valori analoghi a quelli soprariportati ma relativi alla armatura secondaria
<b>N</b>	<b>M</b>	azioni membranali e flessionali (in direzione dell'armatura principale e secondaria) estratte, poiché rappresentative, tra quelle utilizzate per il progetto e la verifica

## 16.2 PROGETTAZIONE DELLE FONDAZIONI

Il D.M.14/02/2008 - par: 7.2.5 prevede:

“Per le strutture progettate 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 azioni in fondazione le resistenze degli elementi strutturali soprastanti [...] si richiede tuttavia che tali azioni risultino non maggiori di quelle trasferite dagli elementi soprastanti, amplificate con un  $\gamma_{Rd}$  pari a 1,1 in CD “B” e 1,3 in CD “A” e comunque non maggiori di quelle derivanti da una analisi elastica della struttura in elevazione eseguita con un fattore di struttura q pari a 1....”

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 del fattore:  $\gamma_{rd}= 1.1$  in CDB  $\gamma_{rd}=1.3$  in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l'incremento delle sollecitazioni ha un fattore:  $\gamma_{rd}= 1.2$  in CDB  $\gamma_{rd}=1.35$  in CDA.

N.B.: se il fattore di struttura  $q \text{ è } =1$  la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore:  $\gamma_{rd}= 1.1$  in CDB  $\gamma_{rd}=1.3$  in CDA per pali, plinti, travi e platee.

N.B.: se il fattore di struttura  $q \text{ è } =1$  le verifiche geotecniche vengono effettuate senza nessun incremento.

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
1	35.00	1	1	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
								kN/ m	kN/ m	kN/ m	kN	kN	kN	
5	ok	0.19	0.1	0.1	17.0	17.0	5.7	5.7	-601.1	-86.6	-64.8	9.9	1.29e-02	1.5
6	ok	0.19	0.1	0.1	17.0	17.0	5.7	5.7	-722.2	-101.1	-64.8	7.0	-0.3	1.8
13	ok	0.19	0.1	0.2	17.0	17.0	5.7	5.7	-709.3	6.4	-64.8	7.0	0.3	0.6
14	ok	0.19	0.1	0.1	17.0	17.0	5.7	5.7	-588.2	20.9	-64.8	9.9	0.6	0.3
15	ok	0.19	9.15e-02	0.2	17.0	17.0	5.7	5.7	-1221.4	-56.5	-64.8	-10.0	-0.5	0.7
16	ok	0.19	0.1	5.64e-02	17.0	17.0	5.7	5.7	-32.6	86.1	-64.8	-9.0	-0.4	0.4
17	ok	0.19	9.15e-02	0.2	17.0	17.0	5.7	5.7	-1234.4	-165.4	-64.8	-10.0	9.80e-02	0.3
18	ok	0.19	0.1	3.10e-02	17.0	17.0	5.7	5.7	-45.7	-22.8	-64.8	-8.9	0.2	-3.06e-02

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
							-1234.44	-165.42	-64.78	-10.04	-0.53	-0.03	
	0.19	0.14	0.21	16.96	16.96	5.65	5.65	-32.62	86.10	-64.78	9.93	0.64	1.79

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		N/mm2					kN/ m	kN/ m
5	ok	1.18						
6	ok	0.78						
13	ok	0.95						
14	ok	1.18						
15	ok	0.95						
16	ok	1.10						
17	ok	0.76						
18	ok	1.10						

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	1.18						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
3	35.00	1	1	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									kN/ m	kN/ m	kN/ m	kN	kN	kN
8	ok	0.19	0.1	6.31e-02	17.0	17.0	5.7	5.7	-315.7	-142.7	-95.3	22.4	0.9	3.2
9	ok	0.19	3.85e-02	2.04e-02	17.0	17.0	5.7	5.7	-31.7	-43.3	-72.0	-1.7	0.2	1.4
25	ok	0.19	4.12e-02	2.28e-02	17.0	17.0	5.7	5.7	-32.5	-50.1	-72.0	-1.4	2.7	1.3
26	ok	0.19	6.97e-02	2.26e-02	17.0	17.0	5.7	5.7	-39.5	18.1	-95.3	9.6	3.0	-1.1
27	ok	0.19	7.02e-02	4.12e-02	17.0	17.0	5.7	5.7	-55.1	-111.4	-95.3	9.1	-0.7	4.8
28	ok	0.19	4.69e-02	1.89e-02	17.0	17.0	5.7	5.7	19.4	-4.7	-6.1	2.8	0.4	2.5
29	ok	0.19	0.1	2.17e-02	17.0	17.0	5.7	5.7	-74.3	52.7	15.1	15.6	7.2	1.9
30	ok	0.19	4.87e-02	9.89e-03	17.0	17.0	5.7	5.7	18.8	-10.0	-6.1	2.9	1.6	-3.0
31	ok	0.19	9.91e-02	2.20e-02	17.0	17.0	5.7	5.7	-83.3	-22.2	-6.1	15.1	3.1	-3.5
32	ok	0.19	0.1	5.70e-02	17.0	17.0	5.7	5.7	-300.2	-13.2	-95.3	22.9	4.6	-2.7
33	ok	0.19	0.2	4.51e-02	17.0	17.0	5.7	5.7	-262.4	30.2	15.1	26.5	8.5	4.5
34	ok	0.19	0.1	4.73e-02	17.0	17.0	5.7	5.7	-274.8	-73.0	15.1	25.8	2.4	-0.3

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
	0.19	0.17	0.06	16.96	16.96	5.65	5.65	-315.75	-142.72	-95.27	-1.68	-0.72	-3.49
	0.19	0.17	0.06	16.96	16.96	5.65	5.65	19.43	52.73	15.12	26.50	8.49	4.83

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		N/mm2					kN/ m	kN/ m
8	ok	2.92						
9	ok	0.41						
25	ok	1.10						
26	ok	1.56						
27	ok	1.36						
28	ok	0.99						
29	ok	1.38						
30	ok	0.31						
31	ok	1.27						
32	ok	3.03						
33	ok	3.77						
34	ok	3.74						

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	3.77						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
4	35.00	1	1	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									kN/ m	kN/ m	kN/ m	kN	kN	kN
10	ok	0.19	3.52e-02	9.75e-03	17.0	17.0	5.7	5.7	-8.3	-27.1	-28.7	-0.8	-0.8	-0.7
11	ok	0.19	0.2	2.24e-02	17.0	17.0	5.7	5.7	-110.2	-27.2	-36.9	-28.8	-3.7	2.7
12	ok	0.19	0.2	2.46e-02	17.0	17.0	5.7	5.7	-143.9	-10.3	-0.5	-36.7	-2.6	-0.7
35	ok	0.19	0.1	1.55e-02	17.0	17.0	5.7	5.7	-11.7	-55.6	-28.7	-1.3	-4.9	2.1
36	ok	0.19	0.1	1.52e-02	17.0	17.0	5.7	5.7	-39.6	-59.0	-28.7	-7.7	-5.6	3.9
37	ok	0.19	7.54e-02	1.61e-02	17.0	17.0	5.7	5.7	-70.8	-39.9	-17.3	-11.8	-1.6	-2.5
38	ok	0.19	0.1	1.42e-02	17.0	17.0	5.7	5.7	-31.8	-53.8	-29.6	0.9	-7.0	-2.4
39	ok	0.19	0.1	1.29e-02	17.0	17.0	5.7	5.7	-72.7	-30.0	-2.9	-12.9	-1.2	-0.8
40	ok	0.19	4.47e-02	5.51e-03	17.0	17.0	5.7	5.7	19.3	-18.2	-2.9	-2.4	-0.8	3.4
41	ok	0.19	9.41e-02	1.41e-02	17.0	17.0	5.7	5.7	-70.1	-29.0	-2.9	-12.7	-2.1	3.8
42	ok	0.19	0.2	2.38e-02	17.0	17.0	5.7	5.7	-126.7	-16.0	-30.1	-23.1	-4.8	-0.2
43	ok	0.19	0.1	2.56e-02	17.0	17.0	5.7	5.7	-137.8	-12.6	-36.7	-21.9	-5.1	2.3
44	ok	0.19	0.1	2.76e-02	17.0	17.0	5.7	5.7	-143.5	-59.8	-12.4	-21.6	-2.3	4.8
47	ok	0.19	0.1	2.46e-02	17.0	17.0	5.7	5.7	-131.5	-55.6	-26.7	-22.8	-2.1	-4.3
56	ok	0.19	0.2	2.54e-02	17.0	17.0	5.7	5.7	-132.4	-21.7	-36.0	-28.3	-6.2	0.9
57	ok	0.19	0.1	2.57e-02	17.0	17.0	5.7	5.7	-136.2	-53.4	-30.1	-28.0	-3.3	-1.6
58	ok	0.19	0.1	2.53e-02	17.0	17.0	5.7	5.7	-127.4	-19.2	-44.6	-19.9	-5.2	1.4
59	ok	0.19	0.1	2.60e-02	17.0	17.0	5.7	5.7	-129.9	-40.6	-44.6	-19.6	-2.6	-2.5
60	ok	0.19	0.2	2.39e-02	17.0	17.0	5.7	5.7	-122.7	-20.5	-36.0	-29.2	-6.3	1.6
61	ok	0.19	0.2	2.44e-02	17.0	17.0	5.7	5.7	-124.5	-36.0	-39.6	-28.9	-3.8	2.0
62	ok	0.19	0.1	2.26e-02	17.0	17.0	5.7	5.7	-114.6	-21.3	-7.2	-17.7	-4.4	1.8
63	ok	0.19	0.1	2.15e-02	17.0	17.0	5.7	5.7	-118.8	-56.7	-7.2	-17.4	-2.3	1.9
64	ok	0.19	0.2	2.27e-02	17.0	17.0	5.7	5.7	-109.8	-24.1	-39.6	-28.9	-4.8	2.4
65	ok	0.19	0.1	2.36e-02	17.0	17.0	5.7	5.7	-132.5	-23.4	-7.2	-17.9	-4.4	0.9
66	ok	0.19	9.93e-02	2.46e-02	17.0	17.0	5.7	5.7	-135.7	-50.1	-24.2	-17.6	-2.3	-1.4
67	ok	0.19	0.2	2.32e-02	17.0	17.0	5.7	5.7	-131.5	-30.3	-10.8	-33.5	-4.5	-1.4

68	ok	0.19	0.2	2.31e-02	17.0	17.0	5.7	5.7	-133.2	-44.6	-10.8	-33.5	-4.3	-2.9
69	ok	0.19	0.1	2.25e-02	17.0	17.0	5.7	5.7	-111.6	-15.5	-24.2	-12.6	-3.5	0.2
70	ok	0.19	8.86e-02	2.15e-02	17.0	17.0	5.7	5.7	-113.7	-33.2	-29.7	-12.4	-1.6	-3.5
71	ok	0.19	0.2	2.39e-02	17.0	17.0	5.7	5.7	-137.6	-9.3	-4.1	-35.2	-5.1	-1.1
72	ok	0.19	0.2	2.41e-02	17.0	17.0	5.7	5.7	-139.2	-23.0	-4.1	-35.2	-5.0	-1.7
73	ok	0.19	0.1	2.18e-02	17.0	17.0	5.7	5.7	-115.5	1.8	13.6	-14.0	-2.7	1.8
74	ok	0.19	0.1	2.02e-02	17.0	17.0	5.7	5.7	-116.0	-2.7	13.6	-14.0	-2.2	3.3
79	ok	0.19	0.2	2.45e-02	17.0	17.0	5.7	5.7	-142.8	-1.3	-0.5	-36.8	-3.8	-0.5
80	ok	0.19	0.1	2.36e-02	17.0	17.0	5.7	5.7	-133.8	2.4	3.4	-17.1	-2.2	1.4
81	ok	0.19	0.1	2.31e-02	17.0	17.0	5.7	5.7	-134.9	-6.7	3.4	-17.0	-1.3	1.3
170	ok	0.19	0.2	2.62e-02	17.0	17.0	5.7	5.7	-152.7	-11.2	-4.1	-36.7	-5.3	-1.0
171	ok	0.19	0.2	2.65e-02	17.0	17.0	5.7	5.7	-154.3	-24.8	-4.1	-36.6	-5.2	-1.7
172	ok	0.19	0.1	2.44e-02	17.0	17.0	5.7	5.7	-139.3	-1.1	13.6	-17.3	-3.1	1.5
173	ok	0.19	0.1	2.42e-02	17.0	17.0	5.7	5.7	-139.9	-5.6	13.6	-17.3	-2.6	3.1

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+Af	sec-Af	sec+	N z	N o	N zo	M z	M o	M zo
	0.19	0.20	0.03	16.96	16.96	5.65	5.65	-154.32	-59.79	-44.55	-36.83	-6.95	-4.33
								19.34	2.45	13.56	0.94	-0.79	4.82

Nodo	Stato	Max tau N/mm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr kN/ m	V sec kN/ m
10	ok	0.86						
11	ok	2.92						
12	ok	3.36						
35	ok	1.57						
36	ok	1.93						
37	ok	1.86						
38	ok	1.52						
39	ok	1.67						
40	ok	0.64						
41	ok	1.55						
42	ok	2.89						
43	ok	2.51						
44	ok	2.50						
47	ok	2.85						
56	ok	2.94						
57	ok	2.94						
58	ok	2.24						
59	ok	2.22						
60	ok	2.91						
61	ok	2.92						
62	ok	2.09						
63	ok	2.11						
64	ok	2.91						
65	ok	2.08						
66	ok	2.08						
67	ok	2.94						
68	ok	2.96						
69	ok	1.87						
70	ok	1.85						
71	ok	3.03						
72	ok	3.04						
73	ok	1.81						
74	ok	1.85						
79	ok	3.35						
80	ok	1.46						
81	ok	1.51						
170	ok	3.13						
171	ok	3.14						
172	ok	1.91						
173	ok	1.94						

Nodo	Max tau 3.36	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
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Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
5	35.00	1	1	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+Af	sec-Af	sec+	N z	N o	N zo	M z	M o	M zo
									kN/ m	kN/ m	kN/ m	kN	kN	kN
1	ok	0.19	0.1	1.58e-02	17.0	17.0	5.7	5.7	-88.1	-4.2	-10.1	-18.4	-1.3	0.5
2	ok	0.19	0.1	7.61e-02	17.0	17.0	5.7	5.7	-441.1	-41.9	31.3	-27.7	-1.5	6.3
4	ok	0.19	8.32e-02	1.54e-02	17.0	17.0	5.7	5.7	-72.1	-15.4	32.4	11.4	1.1	-4.6
75	ok	0.19	0.1	3.09e-02	17.0	17.0	5.7	5.7	-124.8	-72.2	-68.5	-18.6	-0.8	4.0
76	ok	0.19	0.1	2.73e-02	17.0	17.0	5.7	5.7	-115.1	8.4	-68.5	-18.8	-2.4	4.0
77	ok	0.19	0.1	2.85e-02	17.0	17.0	5.7	5.7	-130.4	-101.2	-1.5	-16.2	-0.1	-2.7
78	ok	0.19	0.1	2.27e-02	17.0	17.0	5.7	5.7	-118.6	-2.5	-1.5	-16.5	-2.6	-6.0
128	ok	0.19	0.1	2.66e-02	17.0	17.0	5.7	5.7	-103.5	-40.0	-57.1	-18.6	-0.9	1.9
129	ok	0.19	0.1	2.53e-02	17.0	17.0	5.7	5.7	-103.3	-38.4	-57.1	-18.8	-2.1	2.2
130	ok	0.19	0.1	2.15e-02	17.0	17.0	5.7	5.7	-80.0	-34.2	-46.1	16.4	3.7	0.6
131	ok	0.19	6.89e-02	1.40e-02	17.0	17.0	5.7	5.7	-62.8	-14.3	32.4	6.9	0.6	-4.3
132	ok	0.19	0.1	2.42e-02	17.0	17.0	5.7	5.7	-78.0	-37.0	-46.1	17.5	3.4	1.1
133	ok	0.19	0.1	2.41e-02	17.0	17.0	5.7	5.7	-102.2	-38.2	-57.1	-18.2	-2.0	1.8
134	ok	0.19	0.1	1.91e-02	17.0	17.0	5.7	5.7	-77.6	-33.9	-46.1	17.5	3.8	0.5
135	ok	0.19	7.02e-02	1.20e-02	17.0	17.0	5.7	5.7	-52.4	-6.8	-30.4	-3.7	-0.2	-2.8
136	ok	0.19	0.1	2.20e-02	17.0	17.0	5.7	5.7	-76.5	-27.5	-35.1	18.9	3.2	1.0
137	ok	0.19	0.1	2.24e-02	17.0	17.0	5.7	5.7	-102.1	-37.3	-46.5	-18.3	-2.1	1.2
138	ok	0.19	0.1	1.65e-02	17.0	17.0	5.7	5.7	-75.9	-22.2	-35.1	18.9	3.5	0.2
139	ok	0.19	7.43e-02	1.04e-02	17.0	17.0	5.7	5.7	-51.3	0.3	-22.3	-2.0	-3.89e-02	-1.3
140	ok	0.19	0.1	1.97e-02	17.0	17.0	5.7	5.7	-76.2	-18.5	-23.6	19.5	2.8	0.6
141	ok	0.19	0.1	2.01e-02	17.0	17.0	5.7	5.7	-98.8	-18.0	-25.4	-18.2	-2.8	0.6
142	ok	0.19	0.1	1.45e-02	17.0	17.0	5.7	5.7	-75.5	-12.5	-23.6	19.6	3.1	0.2
143	ok	0.19	8.10e-02	9.46e-03	17.0	17.0	5.7	5.7	-51.4	3.7	-14.0	-1.2	3.81e-02	-0.5
144	ok	0.19	0.1	1.84e-02	17.0	17.0	5.7	5.7	-72.7	-8.5	-12.8	20.0	2.5	0.4
145	ok	0.19	0.1	1.87e-02	17.0	17.0	5.7	5.7	-100.6	-18.3	-25.4	-18.2	-2.8	0.4
146	ok	0.19	0.1	1.28e-02	17.0	17.0	5.7	5.7	-72.3	-5.1	-12.8	20.0	2.7	0.1
147	ok	0.19	8.75e-02	9.01e-03	17.0	17.0	5.7	5.7	-52.2	1.1	-1.7	-0.8	0.2	-0.2
148	ok	0.19	0.1	1.58e-02	17.0	17.0	5.7	5.7	-60.3	-0.3	-2.9	20.3	2.2	0.6
149	ok	0.19	0.1	1.04e-02	17.0	17.0	5.7	5.7	-60.4	-1.1	-2.9	20.3	1.6	0.4
150	ok	0.19	9.33e-02	7.62e-03	17.0	17.0	5.7	5.7	-44.4	2.0	-1.7	-0.4	0.2	-0.6
151	ok	0.19	0.1	2.46e-02	17.0	17.0	5.7	5.7	-107.5	-1.9	31.3	-18.4	-0.4	6.7
152	ok	0.19	0.2	3.10e-02	17.0	17.0	5.7	5.7	-39.7	-26.7	-134.7	-21.5	7.51e-02	-12.0
153	ok	0.19	0.1	7.63e-02	17.0	17.0	5.7	5.7	-442.5	-53.7	31.3	-27.8	-2.4	2.3
154	ok	0.19	0.1	3.88e-02	17.0	17.0	5.7	5.7	-115.8	-71.1	-68.5	-18.4	-0.8	4.6
155	ok	0.19	0.2	0.1	17.0	17.0	5.7	5.7	-669.5	-91.7	-134.7	-47.6	-3.9	-0.5
156	ok	0.19	0.1	4.05e-02	17.0	17.0	5.7	5.7	-47.4	-91.2	-1.5	-21.6	-0.8	-3.5
157	ok	0.19	0.2	0.1	17.0	17.0	5.7	5.7	-670.7	-102.4	-134.7	-47.5	-3.0	-11.7
162	ok	0.19	0.1	2.50e-02	17.0	17.0	5.7	5.7	-99.9	-32.6	65.8	19.1	2.0	2.8
163	ok	0.19	0.1	2.82e-02	17.0	17.0	5.7	5.7	-101.8	-49.0	65.8	18.9	0.8	1.4
164	ok	0.19	0.1	2.33e-02	17.0	17.0	5.7	5.7	-88.6	-47.2	52.8	-15.2	-3.5	1.2

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+Af	sec-Af	sec+	N z	N o	N zo	M z	M o	M zo
	0.19	0.21	0.12	16.96	16.96	5.65	5.65	-670.74	-102.42	-134.69	-47.61	-3.85	-12.02
								-39.68	8.44	65.77	20.34	3.84	6.73

Nodo	Stato	Max tau N/mm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr kN/ m	V sec kN/ m
1	ok	3.09						
2	ok	2.62						
4	ok	2.16						
75	ok	2.50						
76	ok	2.52						
77	ok	2.13						
78	ok	2.13						
128	ok	3.10						
129	ok	3.12						
130	ok	2.11						
131	ok	2.12						
132	ok	2.78						
133	ok	2.79						
134	ok	1.97						
135	ok	1.97						
136	ok	2.78						
137	ok	2.78						
138	ok	1.92						
139	ok	1.92						
140	ok	2.83						
141	ok	2.84						
142	ok	1.89						
143	ok	1.89						
144	ok	2.87						
145	ok	2.88						



146	ok	1.82
147	ok	1.83
148	ok	3.09
149	ok	1.82
150	ok	1.82
151	ok	2.43
152	ok	2.19
153	ok	2.58
154	ok	2.37
155	ok	4.02
156	ok	1.95
157	ok	4.09
162	ok	2.90
163	ok	2.87
164	ok	2.12

Nodo	Max tau 4.09	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
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Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
6	35.00	1	1	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z kN/ m	N o kN/ m	N zo kN/ m	M z kN	M o kN	M zo kN
3	ok	0.19	0.1	2.38e-02	17.0	17.0	5.7	5.7	-136.0	-9.5	-17.9	-6.1	-0.3	0.8
105	ok	0.19	0.1	3.28e-02	17.0	17.0	5.7	5.7	-168.3	-15.8	-42.4	10.1	1.3	1.1
106	ok	0.19	0.1	3.13e-02	17.0	17.0	5.7	5.7	-169.2	-23.1	-42.4	10.1	1.3	1.0
107	ok	0.19	0.1	3.52e-02	17.0	17.0	5.7	5.7	-115.6	-49.0	-90.5	-3.9	-0.5	0.8
108	ok	0.19	0.1	2.91e-02	17.0	17.0	5.7	5.7	-110.7	-8.7	-90.5	-3.9	-0.3	-0.9
109	ok	0.19	0.1	2.67e-02	17.0	17.0	5.7	5.7	-137.3	-29.5	-44.6	9.8	1.5	1.2
110	ok	0.19	0.1	2.64e-02	17.0	17.0	5.7	5.7	-136.1	-19.1	-42.4	9.8	1.2	0.9
111	ok	0.19	0.1	2.73e-02	17.0	17.0	5.7	5.7	-109.1	-35.4	-39.8	3.4	0.7	1.1
112	ok	0.19	0.1	1.51e-02	17.0	17.0	5.7	5.7	-64.7	5.6	-43.9	-1.8	-0.2	-0.6
113	ok	0.19	0.1	2.40e-02	17.0	17.0	5.7	5.7	-119.3	-27.4	-44.6	8.9	1.4	1.1
114	ok	0.19	0.1	2.36e-02	17.0	17.0	5.7	5.7	-118.3	-19.0	-44.6	8.8	1.2	0.6
115	ok	0.19	0.1	2.00e-02	17.0	17.0	5.7	5.7	-93.3	-33.5	-39.8	3.9	0.7	1.1
116	ok	0.19	0.1	1.32e-02	17.0	17.0	5.7	5.7	-55.4	2.4	-29.0	8.0	0.9	-0.3
117	ok	0.19	0.1	2.21e-02	17.0	17.0	5.7	5.7	-114.8	-22.5	-36.0	7.7	1.2	1.0
118	ok	0.19	0.1	2.20e-02	17.0	17.0	5.7	5.7	-114.4	-19.3	-36.0	7.6	0.9	0.4
119	ok	0.19	0.1	1.73e-02	17.0	17.0	5.7	5.7	-61.5	-6.0	-29.0	9.8	1.4	0.8
120	ok	0.19	0.1	1.29e-02	17.0	17.0	5.7	5.7	-60.4	3.3	-18.9	9.7	1.3	-0.2
121	ok	0.19	0.1	2.18e-02	17.0	17.0	5.7	5.7	-116.4	-10.0	-33.1	-5.2	-0.6	1.4
122	ok	0.19	0.1	2.21e-02	17.0	17.0	5.7	5.7	-117.3	-17.7	-33.1	-5.2	-0.6	0.7
123	ok	0.19	0.1	1.67e-02	17.0	17.0	5.7	5.7	-89.3	-3.1	-26.0	3.1	0.5	1.4
124	ok	0.19	0.1	1.28e-02	17.0	17.0	5.7	5.7	-64.3	2.9	-18.9	11.6	1.5	-0.2
125	ok	0.19	0.1	2.37e-02	17.0	17.0	5.7	5.7	-135.6	-5.6	-17.9	-6.1	-0.7	1.3
126	ok	0.19	0.1	1.53e-02	17.0	17.0	5.7	5.7	-88.0	-1.4	-9.5	3.4	-0.1	1.5
127	ok	0.19	0.1	1.10e-02	17.0	17.0	5.7	5.7	-62.3	-1.0	1.6	-0.9	-3.42e-02	-0.1
158	ok	0.19	0.2	4.61e-02	17.0	17.0	5.7	5.7	-248.3	-52.1	62.0	12.4	0.4	0.2
159	ok	0.19	0.2	4.48e-02	17.0	17.0	5.7	5.7	-243.6	-12.9	62.0	12.4	0.5	1.99e-02
160	ok	0.19	0.1	0.1	17.0	17.0	5.7	5.7	-571.3	-40.2	-146.5	-6.9	-0.7	0.8
161	ok	0.19	0.1	0.1	17.0	17.0	5.7	5.7	-576.9	-86.7	-146.5	-6.8	-5.72e-02	-1.2
174	ok	0.19	0.1	6.47e-02	17.0	17.0	5.7	5.7	-295.3	-30.9	-90.5	-5.8	-0.5	-0.8
176	ok	0.19	0.2	3.25e-02	17.0	17.0	5.7	5.7	-185.6	-30.9	6.1	13.6	1.3	0.1
177	ok	0.19	0.2	4.15e-02	17.0	17.0	5.7	5.7	-133.5	0.3	62.0	12.4	0.5	1.34e-02
178	ok	0.19	0.1	6.20e-02	17.0	17.0	5.7	5.7	-300.1	-71.2	-90.5	-5.8	-0.8	0.8

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
								-576.86	-86.69	-146.54	-6.91	-0.76	-1.16
	0.19	0.15	0.11	16.96	16.96	5.65	5.65	-55.42	5.65	62.01	13.61	1.49	1.46

Nodo	Stato	Max tau N/mm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr kN/ m	V sec kN/ m
3	ok	1.08						
105	ok	0.93						
106	ok	0.94						
107	ok	0.90						
108	ok	0.88						

109	ok	0.93
110	ok	0.93
111	ok	0.89
112	ok	0.82
113	ok	0.89
114	ok	0.89
115	ok	0.87
116	ok	0.78
117	ok	0.88
118	ok	0.88
119	ok	0.87
120	ok	0.78
121	ok	0.94
122	ok	0.98
123	ok	0.85
124	ok	0.87
125	ok	1.24
126	ok	1.24
127	ok	0.95
158	ok	1.15
159	ok	1.40
160	ok	1.40
161	ok	1.18
174	ok	1.12
176	ok	1.15
177	ok	1.01
178	ok	1.00

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
	1.40						

Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
7	35.00	1	1	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo
									kN/ m	kN/ m	kN/ m	kN	kN	kN
7	ok	0.19	8.85e-02	1.13e-02	17.0	17.0	5.7	5.7	-65.9	7.29e-02	-1.7	6.1	0.2	-0.5
8	ok	0.19	0.1	5.27e-02	17.0	17.0	5.7	5.7	-299.1	-4.3	47.2	19.3	1.9	-7.9
32	ok	0.19	0.2	5.25e-02	17.0	17.0	5.7	5.7	-298.3	2.4	47.2	20.4	11.1	1.0
33	ok	0.19	0.2	5.66e-02	17.0	17.0	5.7	5.7	-165.4	-7.9	-45.7	-11.7	7.5	-2.8
34	ok	0.19	8.70e-02	5.90e-02	17.0	17.0	5.7	5.7	-273.5	-62.0	-128.5	7.1	0.1	10.3
82	ok	0.19	0.1	1.88e-02	17.0	17.0	5.7	5.7	-82.9	-12.7	-11.5	14.0	5.0	-4.2
83	ok	0.19	0.1	1.56e-02	17.0	17.0	5.7	5.7	-75.1	52.7	-11.5	13.8	3.5	-4.7
84	ok	0.19	0.1	2.01e-02	17.0	17.0	5.7	5.7	-90.3	-39.4	-35.1	-15.5	-5.3	2.1
85	ok	0.19	0.1	1.93e-02	17.0	17.0	5.7	5.7	-14.6	-33.3	-47.0	-13.4	-2.4	4.4
86	ok	0.19	0.1	1.74e-02	17.0	17.0	5.7	5.7	-46.1	-12.8	-24.6	-21.4	-5.3	0.1
87	ok	0.19	0.1	1.46e-02	17.0	17.0	5.7	5.7	-69.1	37.6	-40.1	11.7	2.3	-3.7
88	ok	0.19	0.1	1.42e-02	17.0	17.0	5.7	5.7	-48.7	-34.4	-35.1	-21.5	-6.0	2.6
89	ok	0.19	0.1	1.41e-02	17.0	17.0	5.7	5.7	-22.6	-34.2	-47.0	-15.0	-2.6	3.4
90	ok	0.19	0.2	1.59e-02	17.0	17.0	5.7	5.7	-49.2	-13.2	-24.6	-25.3	-5.8	0.2
91	ok	0.19	9.50e-02	1.46e-02	17.0	17.0	5.7	5.7	-72.3	10.9	-32.8	10.1	0.9	-1.7
92	ok	0.19	0.2	1.13e-02	17.0	17.0	5.7	5.7	-50.0	-19.8	-24.6	-25.3	-6.0	2.4
93	ok	0.19	9.18e-02	9.42e-03	17.0	17.0	5.7	5.7	-24.3	1.0	-32.2	-7.7	-1.4	1.5
94	ok	0.19	0.2	1.42e-02	17.0	17.0	5.7	5.7	-54.5	-5.6	-14.9	-26.7	-4.7	0.9
95	ok	0.19	9.13e-02	1.40e-02	17.0	17.0	5.7	5.7	-75.9	-5.4	-11.2	8.7	1.3	-0.3
96	ok	0.19	0.2	1.02e-02	17.0	17.0	5.7	5.7	-54.7	-7.9	-14.9	-26.8	-4.8	1.8
97	ok	0.19	8.69e-02	6.74e-03	17.0	17.0	5.7	5.7	-38.2	1.0	5.8	10.1	1.5	0.7
98	ok	0.19	0.2	1.36e-02	17.0	17.0	5.7	5.7	-55.5	-0.6	-6.7	-27.4	-3.6	1.2
99	ok	0.19	8.93e-02	1.36e-02	17.0	17.0	5.7	5.7	-77.5	-5.6	-11.2	7.2	1.1	-6.26e-02
100	ok	0.19	0.2	9.71e-03	17.0	17.0	5.7	5.7	-55.7	-2.0	-6.7	-27.3	-3.5	1.6
101	ok	0.19	8.48e-02	7.47e-03	17.0	17.0	5.7	5.7	-42.4	0.5	5.8	11.0	1.6	0.6
102	ok	0.19	0.2	1.13e-02	17.0	17.0	5.7	5.7	-53.5	1.0	-0.9	-27.9	-2.5	0.8
103	ok	0.19	0.2	9.21e-03	17.0	17.0	5.7	5.7	-53.7	-0.8	-0.9	-27.9	-2.0	1.2
104	ok	0.19	8.53e-02	6.71e-03	17.0	17.0	5.7	5.7	-39.1	1.4	-1.1	11.5	0.6	1.1
179	ok	0.19	0.1	3.82e-02	17.0	17.0	5.7	5.7	-112.1	-42.7	-128.5	1.3	-0.6	11.4
180	ok	0.19	0.1	2.77e-02	17.0	17.0	5.7	5.7	-147.1	14.0	47.2	14.2	1.3	-8.9
181	ok	0.19	0.2	3.14e-02	17.0	17.0	5.7	5.7	-146.3	20.6	47.2	15.3	10.5	-7.26e-02
182	ok	0.19	0.2	3.46e-02	17.0	17.0	5.7	5.7	-167.7	-8.2	-45.7	-9.5	7.8	-2.8

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+Af sec-	Af sec+	N z	N o	N zo	M z	M o	M zo	
	0.19	0.21	0.06	16.96	16.96	5.65	5.65	-299.13	-62.04	-128.51	-27.93	-6.02	-8.94
								-14.61	52.71	47.17	20.45	11.10	11.37

Nodo	Stato	Max tau N/mm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr kN/ m	V sec kN/ m
7	ok	2.83						
8	ok	3.09						
32	ok	2.92						
33	ok	4.43						
34	ok	3.37						
82	ok	2.41						
83	ok	2.39						
84	ok	1.67						
85	ok	1.57						
86	ok	2.61						
87	ok	2.61						
88	ok	1.65						
89	ok	1.74						
90	ok	2.79						
91	ok	2.81						
92	ok	1.82						
93	ok	1.87						
94	ok	2.81						
95	ok	2.81						
96	ok	1.92						
97	ok	1.93						
98	ok	2.74						
99	ok	2.74						
100	ok	1.88						
101	ok	1.88						
102	ok	2.83						
103	ok	2.30						
104	ok	2.30						
179	ok	1.87						
180	ok	2.48						
181	ok	2.22						
182	ok	3.40						

Nodo	Max tau 4.43	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
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Macro Setto	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
9	35.00	1	1	Singolo elemento NON DISSIPATIVO

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+Af sec-	Af sec+	N z kN/ m	N o kN/ m	N zo kN/ m	M z kN	M o kN	M zo kN	
9	ok	0.19	4.00e-02	8.35e-03	17.0	17.0	5.7	5.7	-15.5	-23.2	18.7	1.2	0.4	0.4
10	ok	0.19	4.15e-02	6.74e-03	17.0	17.0	5.7	5.7	-10.9	-17.1	-21.3	0.3	1.2	1.3
25	ok	0.19	0.1	2.10e-02	17.0	17.0	5.7	5.7	-33.3	-56.5	-32.2	2.7	8.9	2.9
28	ok	0.19	0.1	1.98e-02	17.0	17.0	5.7	5.7	-54.7	-48.3	-55.9	-2.5	7.5	-0.8
30	ok	0.19	3.51e-02	1.12e-02	17.0	17.0	5.7	5.7	-28.0	-14.9	-39.4	-1.2	-0.3	-0.5
35	ok	0.19	0.1	1.43e-02	17.0	17.0	5.7	5.7	-36.9	-63.0	18.9	-1.0	9.0	-1.9
38	ok	0.19	0.1	1.41e-02	17.0	17.0	5.7	5.7	-36.9	-62.8	18.9	-1.0	8.9	1.3
40	ok	0.19	4.09e-02	6.91e-03	17.0	17.0	5.7	5.7	-18.4	-13.8	16.9	-0.2	1.5	1.4
55	ok	0.19	9.01e-02	1.15e-02	17.0	17.0	5.7	5.7	-47.2	-54.8	4.2	11.3	0.8	-4.4
216	ok	0.19	0.1	1.74e-02	17.0	17.0	5.7	5.7	-76.1	-41.2	-19.2	16.7	1.7	6.6
217	ok	0.19	0.2	2.33e-02	17.0	17.0	5.7	5.7	-131.5	-73.8	-13.7	26.6	2.8	5.4
218	ok	0.19	0.1	2.38e-02	17.0	17.0	5.7	5.7	-136.4	-85.3	-3.0	27.4	3.0	-2.4
219	ok	0.19	0.1	1.89e-02	17.0	17.0	5.7	5.7	-107.3	-62.0	4.2	22.1	2.1	-5.1
220	ok	0.19	7.39e-02	1.41e-02	17.0	17.0	5.7	5.7	-15.8	-33.9	-19.2	6.3	0.5	5.5
221	ok	0.19	9.44e-02	1.57e-02	17.0	17.0	5.7	5.7	-88.6	-33.4	-10.2	14.7	1.8	-3.7
222	ok	0.19	0.1	2.43e-02	17.0	17.0	5.7	5.7	-140.2	-44.4	-10.3	23.4	2.8	-3.3
223	ok	0.19	0.1	2.49e-02	17.0	17.0	5.7	5.7	-144.4	-49.4	-6.0	23.8	3.0	3.7
224	ok	0.19	0.1	2.04e-02	17.0	17.0	5.7	5.7	-118.2	-41.7	-7.0	18.7	1.9	5.9
225	ok	0.19	6.30e-02	1.15e-02	17.0	17.0	5.7	5.7	-34.4	-26.9	-10.2	6.1	0.8	-2.5
226	ok	0.19	7.83e-02	1.27e-02	17.0	17.0	5.7	5.7	-57.1	-28.6	-2.5	9.3	2.0	3.2
227	ok	0.19	0.1	1.36e-02	17.0	17.0	5.7	5.7	-2.2	-58.8	18.9	-7.0	8.2	-1.9

228	ok	0.19	0.1	1.29e-02	17.0	17.0	5.7	5.7	-2.2	-58.7	18.9	-7.0	8.1	1.3
229	ok	0.19	0.1	2.01e-02	17.0	17.0	5.7	5.7	-114.9	-14.1	-6.0	19.0	4.2	1.7
230	ok	0.19	0.1	1.87e-02	17.0	17.0	5.7	5.7	-102.3	-20.9	-3.0	22.4	4.5	-0.4
231	ok	0.19	0.1	2.41e-02	17.0	17.0	5.7	5.7	-140.1	-13.8	-9.2	24.3	6.9	1.1
232	ok	0.19	0.1	2.38e-02	17.0	17.0	5.7	5.7	-128.7	-21.2	-7.2	27.9	7.1	0.3
233	ok	0.19	0.1	2.38e-02	17.0	17.0	5.7	5.7	-136.5	-13.4	-9.2	23.9	6.8	-0.1
234	ok	0.19	0.1	2.32e-02	17.0	17.0	5.7	5.7	-125.2	-20.8	-7.2	27.1	7.0	1.7
235	ok	0.19	0.1	1.56e-02	17.0	17.0	5.7	5.7	-88.5	-32.9	-10.2	14.3	-2.1	1.5
236	ok	0.19	9.35e-02	1.58e-02	17.0	17.0	5.7	5.7	-73.5	-19.3	-13.7	16.8	2.2	1.5
237	ok	0.19	0.1	1.86e-02	17.0	17.0	5.7	5.7	-27.2	-55.8	-32.2	2.6	8.9	4.4
238	ok	0.19	0.1	1.71e-02	17.0	17.0	5.7	5.7	-24.4	-44.7	-55.9	-5.8	7.2	-0.9
<b>Nodo</b>		<b>x/d</b>	<b>V N/M</b>	<b>ver. rid</b>	<b>Af pr-</b>	<b>Af pr+Af</b>	<b>sec-Af</b>	<b>sec+</b>	<b>N z</b>	<b>N o</b>	<b>N zo</b>	<b>M z</b>	<b>M o</b>	<b>M zo</b>
		0.19	0.15	0.02	16.96	16.96	5.65	5.65	-144.36	-85.28	-55.90	-7.03	-2.08	-5.15
									-2.15	-13.37	18.90	27.89	8.96	6.58

Nodo	Stato	Max tau N/mm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr kN/ m	V sec kN/ m
9	ok	1.08						
10	ok	0.78						
25	ok	1.61						
28	ok	1.54						
30	ok	0.90						
35	ok	1.63						
38	ok	1.54						
40	ok	0.76						
55	ok	1.31						
216	ok	1.95						
217	ok	2.62						
218	ok	2.58						
219	ok	2.31						
220	ok	0.84						
221	ok	2.18						
222	ok	2.88						
223	ok	2.87						
224	ok	2.61						
225	ok	1.17						
226	ok	1.55						
227	ok	1.84						
228	ok	1.59						
229	ok	2.62						
230	ok	2.34						
231	ok	2.88						
232	ok	2.60						
233	ok	2.90						
234	ok	2.63						
235	ok	2.21						
236	ok	1.97						
237	ok	1.82						
238	ok	1.51						
Nodo		Max tau 2.90	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
2	35.00	1	2	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+Af	sec-Af	sec+	N x kN/ m	N y kN/ m	N xy kN/ m	M x kN	M y kN	M xy kN
4	ok	0.19	0.1	1.35e-02	17.0	17.0	17.0	17.0	-72.3	-5.0	11.4	16.9	4.8	-4.2
17	ok	0.19	0.2	1.72e-02	17.0	17.0	17.0	17.0	-48.1	-14.5	15.7	40.3	29.8	4.2
18	ok	0.19	0.2	1.23e-02	17.0	17.0	17.0	17.0	-57.2	-14.9	15.5	34.6	29.1	-2.6
19	ok	0.19	0.3	1.69e-02	17.0	17.0	17.0	17.0	-41.0	-77.8	3.6	-1.7	-44.8	9.7
20	ok	0.19	0.3	1.33e-02	17.0	17.0	17.0	17.0	-33.2	-76.8	1.2	-13.1	-46.1	3.6
21	ok	0.19	0.2	1.23e-02	17.0	17.0	17.0	17.0	-51.2	-63.2	-3.5	-19.5	-30.1	17.0
22	ok	0.19	0.2	1.20e-02	17.0	17.0	17.0	17.0	-32.1	-67.8	-1.8	-9.5	-30.0	5.5
23	ok	0.19	0.2	1.29e-02	17.0	17.0	17.0	17.0	-32.9	-74.4	-1.8	-9.9	-32.9	4.7
24	ok	0.19	0.2	1.31e-02	17.0	17.0	17.0	17.0	-34.5	-64.7	-9.7	-6.9	-23.4	13.1

30	ok	0.19	4.72e-02	4.35e-03	17.0	17.0	17.0	17.0	-14.0	-13.4	10.6	2.8	2.2	5.7
31	ok	0.19	0.2	1.50e-02	17.0	17.0	17.0	17.0	-18.7	-52.5	10.6	5.3	23.3	9.2
34	ok	0.19	0.2	2.35e-02	17.0	17.0	17.0	17.0	-54.7	-122.2	17.1	2.8	40.3	4.3
40	ok	0.19	4.65e-02	8.11e-03	17.0	17.0	17.0	17.0	-23.5	-25.1	-23.0	1.6	1.6	-6.2
41	ok	0.19	0.1	1.47e-02	17.0	17.0	17.0	17.0	-27.4	-57.5	-23.0	3.1	14.3	-10.8
44	ok	0.19	0.1	1.71e-02	17.0	17.0	17.0	17.0	-52.5	-81.0	-30.1	-7.34e-02	23.1	-6.0
45	ok	0.19	0.2	1.10e-02	17.0	17.0	17.0	17.0	-54.0	-55.4	0.5	-35.6	-12.5	-4.1
46	ok	0.19	0.3	1.06e-02	17.0	17.0	17.0	17.0	-57.7	-58.8	-3.3	-46.9	-25.0	5.0
48	ok	0.19	0.2	1.38e-02	17.0	17.0	17.0	17.0	-47.5	-62.7	-10.4	-32.5	-30.2	9.0
49	ok	0.19	0.2	1.34e-02	17.0	17.0	17.0	17.0	-53.7	-59.6	8.6	-24.7	-14.6	12.6
50	ok	0.19	0.2	1.62e-02	17.0	17.0	17.0	17.0	-47.4	-62.4	-10.4	-32.3	-28.3	2.4
51	ok	0.19	0.3	1.31e-02	17.0	17.0	17.0	17.0	-57.9	-60.1	-3.3	-47.3	-28.8	3.8
52	ok	0.19	0.2	1.41e-02	17.0	17.0	17.0	17.0	-67.4	-61.3	8.6	-36.5	-16.0	10.2
53	ok	0.19	0.2	2.00e-02	17.0	17.0	17.0	17.0	-53.5	-35.6	8.3	-2.1	29.1	10.7
54	ok	0.19	0.3	1.22e-02	17.0	17.0	17.0	17.0	-56.1	-63.7	-10.4	-45.3	-31.8	9.7
55	ok	0.19	0.1	1.32e-02	17.0	17.0	17.0	17.0	-46.1	-27.8	-23.0	10.0	2.6	-10.7
59	ok	0.19	0.1	1.57e-02	17.0	17.0	17.0	17.0	-34.1	-75.1	-19.2	1.9	20.1	5.9
63	ok	0.19	0.1	1.35e-02	17.0	17.0	17.0	17.0	-11.6	-64.7	-17.4	2.5	14.4	7.7
66	ok	0.19	7.03e-02	1.31e-02	17.0	17.0	17.0	17.0	-10.8	-58.2	-17.4	1.6	6.6	6.6
70	ok	0.19	6.79e-02	1.23e-02	17.0	17.0	17.0	17.0	14.0	-59.3	5.7	2.2	8.3	-5.9
74	ok	0.19	6.73e-02	1.15e-02	17.0	17.0	17.0	17.0	11.8	-63.3	8.7	1.2	8.9	-5.9
78	ok	0.19	0.1	1.38e-02	17.0	17.0	17.0	17.0	-68.1	7.3	15.4	17.0	-5.4	-4.8
81	ok	0.19	8.14e-02	9.55e-03	17.0	17.0	17.0	17.0	-3.3	-41.0	-6.1	-1.2	-13.3	3.9
85	ok	0.19	9.75e-02	1.27e-02	17.0	17.0	17.0	17.0	-42.8	6.5	-16.3	0.9	13.4	7.7
89	ok	0.19	9.31e-02	1.09e-02	17.0	17.0	17.0	17.0	-50.5	16.1	1.8	16.5	2.1	1.8
93	ok	0.19	0.1	1.16e-02	17.0	17.0	17.0	17.0	-57.2	8.2	0.7	19.1	2.4	0.8
97	ok	0.19	0.1	1.20e-02	17.0	17.0	17.0	17.0	-59.7	-1.7	1.0	20.7	2.7	4.89e-02
101	ok	0.19	0.1	1.24e-02	17.0	17.0	17.0	17.0	-63.9	-2.2	1.0	22.0	2.8	0.1
104	ok	0.19	0.1	1.37e-02	17.0	17.0	17.0	17.0	-64.3	-1.7	-0.7	23.0	1.5	-2.37e-02
108	ok	0.19	0.1	1.33e-02	17.0	17.0	17.0	17.0	-59.5	-4.9	12.4	13.7	8.3	-5.2
112	ok	0.19	9.68e-02	1.23e-02	17.0	17.0	17.0	17.0	-60.4	0.6	1.6	17.4	2.7	-0.2
116	ok	0.19	9.12e-02	1.21e-02	17.0	17.0	17.0	17.0	-43.9	-1.9	-1.7	16.2	2.1	-0.8
120	ok	0.19	8.96e-02	1.24e-02	17.0	17.0	17.0	17.0	-61.5	1.2	-11.7	16.1	2.2	-1.0
124	ok	0.19	9.37e-02	1.27e-02	17.0	17.0	17.0	17.0	-65.6	0.7	-11.7	16.9	2.3	-0.9
127	ok	0.19	9.62e-02	1.33e-02	17.0	17.0	17.0	17.0	-65.3	-0.2	-5.4	17.4	1.8	-0.7
131	ok	0.19	0.1	1.25e-02	17.0	17.0	17.0	17.0	-47.9	9.9	-1.0	18.7	2.4	0.3
135	ok	0.19	0.1	1.22e-02	17.0	17.0	17.0	17.0	-48.2	5.4	-1.1	19.1	2.4	0.3
139	ok	0.19	0.1	1.20e-02	17.0	17.0	17.0	17.0	-48.0	5.4	-1.1	19.2	2.4	0.3
143	ok	0.19	0.1	1.18e-02	17.0	17.0	17.0	17.0	-48.1	-1.2	-0.7	19.2	2.5	0.2
147	ok	0.19	0.1	1.18e-02	17.0	17.0	17.0	17.0	-50.1	-1.5	-0.7	19.2	2.5	4.61e-02
150	ok	0.19	0.1	1.13e-02	17.0	17.0	17.0	17.0	-45.8	-1.7	-1.8	19.2	1.2	9.97e-02
152	ok	0.19	0.3	1.92e-02	17.0	17.0	17.0	17.0	-76.2	-31.1	53.8	13.6	38.9	-18.2
157	ok	0.19	0.2	3.43e-02	17.0	17.0	17.0	17.0	-49.2	-14.5	35.2	13.2	26.2	-11.3
161	ok	0.19	0.1	1.82e-02	17.0	17.0	17.0	17.0	-63.9	-55.1	16.4	18.7	7.0	-8.1
165	ok	0.19	0.3	1.72e-02	17.0	17.0	17.0	17.0	-7.4	-97.2	16.5	-11.8	-53.6	17.6
166	ok	0.19	0.2	1.51e-02	17.0	17.0	17.0	17.0	-67.8	-60.0	-16.6	-35.7	-18.0	-4.4
167	ok	0.19	0.1	1.20e-02	17.0	17.0	17.0	17.0	-65.9	-19.7	1.6	-18.2	2.9	-2.8
168	ok	0.19	0.2	1.20e-02	17.0	17.0	17.0	17.0	-15.4	-63.8	13.0	-19.4	-28.8	-0.3
169	ok	0.19	0.2	1.59e-02	17.0	17.0	17.0	17.0	-58.1	-58.9	-16.6	-28.1	-17.1	-8.4
173	ok	0.19	5.63e-02	1.26e-02	17.0	17.0	17.0	17.0	-9.4	-41.2	-3.2	-1.5	-8.9	3.1
174	ok	0.19	0.1	1.48e-02	17.0	17.0	17.0	17.0	-60.4	-18.1	20.7	23.6	9.2	0.2
175	ok	0.19	0.1	1.36e-02	17.0	17.0	17.0	17.0	-62.3	-17.7	18.9	-20.3	-2.5	-3.9
179	ok	0.19	0.2	2.00e-02	17.0	17.0	17.0	17.0	-53.5	-35.6	8.3	-2.1	29.1	10.7
183	ok	0.19	0.2	1.45e-02	17.0	17.0	17.0	17.0	-62.1	-28.9	21.6	-27.7	4.1	-6.8
184	ok	0.19	0.2	1.25e-02	17.0	17.0	17.0	17.0	-62.2	-29.3	21.6	-27.5	6.0	-0.6
185	ok	0.19	0.2	2.06e-02	17.0	17.0	17.0	17.0	-59.2	-48.9	22.4	-37.1	12.7	-5.0
186	ok	0.19	0.2	1.24e-02	17.0	17.0	17.0	17.0	-56.8	-28.7	21.6	-38.1	4.7	-1.2
187	ok	0.19	0.3	1.72e-02	17.0	17.0	17.0	17.0	-53.4	-56.0	25.3	-51.6	-6.4	12.5
188	ok	0.19	0.3	1.37e-02	17.0	17.0	17.0	17.0	-52.7	-49.6	25.3	-52.5	-13.4	1.8
189	ok	0.19	0.4	3.31e-02	17.0	17.0	17.0	17.0	-13.9	-98.0	16.5	-23.2	-54.9	25.3
190	ok	0.19	0.3	1.57e-02	17.0	17.0	17.0	17.0	-40.9	-81.0	23.0	-34.8	-35.8	12.0
191	ok	0.19	0.2	1.47e-02	17.0	17.0	17.0	17.0	-16.8	-75.7	13.0	-20.6	-38.8	4.9
192	ok	0.19	0.2	1.29e-02	17.0	17.0	17.0	17.0	-37.8	-55.8	23.0	-33.9	-27.7	4.4
193	ok	0.19	0.3	1.22e-02	17.0	17.0	17.0	17.0	-0.1	-70.7	7.1	-8.5	-46.7	5.2
194	ok	0.19	0.2	1.31e-02	17.0	17.0	17.0	17.0	-2.8	-74.0	13.0	-10.6	-37.6	1.2
195	ok	0.19	0.2	1.17e-02	17.0	17.0	17.0	17.0	-1.3	-62.1	13.0	-9.4	-27.6	-4.0
196	ok	0.19	0.1	1.14e-02	17.0	17.0	17.0	17.0	-56.6	-18.8	-8.3	15.3	11.6	-4.7
197	ok	0.19	0.2	1.50e-02	17.0	17.0	17.0	17.0	-40.2	-70.4	-17.2	-16.6	-21.8	6.8
198	ok	0.19	0.1	1.15e-02	17.0	17.0	17.0	17.0	-57.3	-26.5	8.4	16.3	6.7	6.7
199	ok	0.19	0.1	1.68e-02	17.0	17.0	17.0	17.0	-46.6	-71.4	-27.4	-15.0	-17.7	-9.3
200	ok	0.19	0.2	1.12e-02	17.0	17.0	17.0	17.0	-57.6	-37.0	-5.9	25.7	17.1	4.1
201	ok	0.19	0.2	1.14e-02	17.0	17.0	17.0	17.0	-44.3	-35.9	-6.2	33.5	18.1	-0.3
202	ok	0.19	0.2	1.18e-02	17.0	17.0	17.0	17.0	-32.1	-67.8	-1.8	-11.2	-30.2	4.4
203	ok	0.19	0.2	1.43e-02	17.0	17.0	17.0	17.0	-49.9	-60.2	-23.0	11.6	15.4	-15.3
204	ok	0.19	0.1	1.48e-02	17.0	17.0	17.0	17.0	-62.7	-24.8	12.4	18.2	11.6	-9.2

205	ok	0.19	0.2	1.28e-02	17.0	17.0	17.0	17.0	-40.6	-61.9	-3.5	-12.2	-29.3	16.2
206	ok	0.19	0.2	2.15e-02	17.0	17.0	17.0	17.0	-66.8	-111.3	-27.4	-16.4	35.8	-3.5
207	ok	0.19	0.2	1.19e-02	17.0	17.0	17.0	17.0	-42.2	-54.3	10.6	8.9	23.1	13.4
208	ok	0.19	0.2	1.61e-02	17.0	17.0	17.0	17.0	-55.2	-66.1	0.5	-36.6	-21.1	-4.67e-02
209	ok	0.19	0.1	1.74e-02	17.0	17.0	17.0	17.0	-63.2	-50.5	-7.8	19.0	6.8	-7.3
210	ok	0.19	0.1	1.37e-02	17.0	17.0	17.0	17.0	-60.5	-35.5	7.4	15.7	5.1	-12.4
211	ok	0.19	0.1	1.39e-02	17.0	17.0	17.0	17.0	-56.4	-13.2	-15.4	-19.4	10.7	-9.9
212	ok	0.19	0.2	1.31e-02	17.0	17.0	17.0	17.0	-60.4	-41.1	16.0	33.0	14.7	-4.8
213	ok	0.19	0.3	1.43e-02	17.0	17.0	17.0	17.0	-55.6	-59.8	-3.3	-44.9	-28.6	5.2
214	ok	0.19	0.2	1.19e-02	17.0	17.0	17.0	17.0	-51.2	-40.6	16.2	38.7	15.4	2.0
215	ok	0.19	0.2	1.23e-02	17.0	17.0	17.0	17.0	-41.4	-54.5	13.9	-21.7	-28.0	-8.8
216	ok	0.19	0.1	1.33e-02	17.0	17.0	17.0	17.0	-61.3	-39.4	14.7	15.2	2.3	12.4
217	ok	0.19	0.1	1.73e-02	17.0	17.0	17.0	17.0	-80.5	-67.7	6.8	21.2	0.2	7.3
218	ok	0.19	0.1	1.73e-02	17.0	17.0	17.0	17.0	-82.3	-78.8	-14.4	22.0	0.2	-3.4
219	ok	0.19	0.1	1.64e-02	17.0	17.0	17.0	17.0	-71.8	-57.7	-24.7	18.7	1.0	-9.4
220	ok	0.19	9.36e-02	9.12e-03	17.0	17.0	17.0	17.0	-40.0	-36.8	14.7	6.3	1.3	12.5
240	ok	0.19	0.1	1.25e-02	17.0	17.0	17.0	17.0	-72.0	-10.7	7.4	16.3	4.7	-3.3
241	ok	0.19	0.1	1.22e-02	17.0	17.0	17.0	17.0	-48.4	3.2	-1.1	19.1	2.2	0.4
242	ok	0.19	0.1	1.20e-02	17.0	17.0	17.0	17.0	-48.3	3.2	-1.1	19.2	2.2	0.3
243	ok	0.19	0.1	1.18e-02	17.0	17.0	17.0	17.0	-47.8	1.4	-1.3	19.2	2.2	0.2
244	ok	0.19	0.1	1.19e-02	17.0	17.0	17.0	17.0	-49.8	0.6	-0.7	19.2	2.1	4.51e-02
245	ok	0.19	0.1	1.17e-02	17.0	17.0	17.0	17.0	-45.5	0.7	-1.8	19.3	1.6	0.2
246	ok	0.19	8.57e-02	1.17e-02	17.0	17.0	17.0	17.0	-57.0	-11.8	8.0	-13.3	3.3	2.6
247	ok	0.19	5.74e-02	1.16e-02	17.0	17.0	17.0	17.0	-57.5	-11.9	8.0	-9.8	3.7	2.0
248	ok	0.19	5.36e-02	1.16e-02	17.0	17.0	17.0	17.0	-57.5	-7.5	5.9	-8.2	2.5	0.8
249	ok	0.19	5.40e-02	1.18e-02	17.0	17.0	17.0	17.0	-68.5	-1.5	-4.1	-9.7	-1.0	-1.1
250	ok	0.19	5.39e-02	1.21e-02	17.0	17.0	17.0	17.0	-70.7	-1.7	-4.1	-9.7	-1.0	-1.0
251	ok	0.19	5.65e-02	1.24e-02	17.0	17.0	17.0	17.0	-72.2	-0.7	-2.0	-10.0	-0.5	-1.0
252	ok	0.19	8.25e-02	1.19e-02	17.0	17.0	17.0	17.0	-57.2	-11.2	2.2	11.9	5.3	3.8
253	ok	0.19	8.22e-02	1.20e-02	17.0	17.0	17.0	17.0	-59.5	-11.1	-13.8	14.5	2.1	-1.4
254	ok	0.19	8.50e-02	1.19e-02	17.0	17.0	17.0	17.0	-61.4	-11.4	-13.8	15.2	2.2	-1.4
255	ok	0.19	8.97e-02	1.20e-02	17.0	17.0	17.0	17.0	-62.1	-3.1	-11.7	16.1	2.1	-1.4
256	ok	0.19	9.41e-02	1.25e-02	17.0	17.0	17.0	17.0	-66.1	-3.6	-11.7	16.9	2.2	-1.4
257	ok	0.19	9.61e-02	1.32e-02	17.0	17.0	17.0	17.0	-65.4	-0.9	-5.4	17.4	1.4	-1.0
258	ok	0.19	0.1	1.44e-02	17.0	17.0	17.0	17.0	-61.9	-24.7	12.4	14.1	11.1	-8.5
259	ok	0.19	9.85e-02	1.31e-02	17.0	17.0	17.0	17.0	-59.8	-17.5	5.4	11.7	8.4	-4.0
260	ok	0.19	9.18e-02	1.24e-02	17.0	17.0	17.0	17.0	-44.6	-7.4	-1.7	16.3	2.6	-1.0
261	ok	0.19	9.00e-02	1.25e-02	17.0	17.0	17.0	17.0	-45.0	-7.4	-1.7	16.0	2.6	-0.8
262	ok	0.19	8.85e-02	1.28e-02	17.0	17.0	17.0	17.0	-44.6	-3.0	-1.2	15.8	2.2	-0.6
263	ok	0.19	8.71e-02	1.33e-02	17.0	17.0	17.0	17.0	-36.2	3.77e-02	-1.2	15.4	1.2	-0.7
264	ok	0.19	8.34e-02	1.14e-02	17.0	17.0	17.0	17.0	-51.4	-34.8	3.0	-5.4	13.1	-0.1
265	ok	0.19	9.31e-02	1.12e-02	17.0	17.0	17.0	17.0	-51.0	-3.5	-6.9	16.2	4.9	-0.4
266	ok	0.19	0.1	1.18e-02	17.0	17.0	17.0	17.0	-58.4	-1.7	0.7	19.1	2.8	-0.6
267	ok	0.19	0.1	1.21e-02	17.0	17.0	17.0	17.0	-59.6	-0.7	1.9	20.7	2.8	-0.7
268	ok	0.19	0.1	1.27e-02	17.0	17.0	17.0	17.0	-62.1	0.6	-1.9	21.8	2.7	-0.8
269	ok	0.19	0.1	1.37e-02	17.0	17.0	17.0	17.0	-64.0	0.4	-0.7	23.0	1.8	-0.7

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
	0.19	0.37	0.03	16.96	16.96	16.96	16.96	-82.29	-122.22	-30.07	-52.48	-54.93	-18.23
								14.03	16.15	53.84	40.30	40.34	25.35

Nodo	Stato	Max tau N/mm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr kN/ m	V sec kN/ m
4	ok	2.68						
17	ok Av	9.52	0.24	0.26	7.6	8.5	180.9	201.5
18	ok	4.01						
19	ok Av	7.16	0.05	0.26	1.5	8.5	35.3	201.5
20	ok	1.31						
21	ok	2.76						
22	ok	2.92						
23	ok	3.49						
24	ok	3.11						
30	ok	2.87						
31	ok	3.37						
34	ok Av	6.69	0.14	0.23	4.3	7.3	103.0	174.3
40	ok	2.24						
41	ok	2.58						
44	ok	4.00						
45	ok	2.53						
46	ok	2.06						
48	ok	1.81						
49	ok	2.76						
50	ok	2.07						
51	ok	1.77						

52	ok	3.63							
53	ok	2.39							
54	ok	2.59							
55	ok	2.20							
59	ok	3.52							
63	ok	3.11							
66	ok	3.53							
70	ok	3.09							
74	ok	3.13							
78	ok	2.86							
81	ok	3.33							
85	ok	3.12							
89	ok	0.85							
93	ok	0.97							
97	ok	1.03							
101	ok	1.11							
104	ok	1.16							
108	ok	1.87							
112	ok	1.10							
116	ok	0.99							
120	ok	1.05							
124	ok	1.10							
127	ok	1.27							
131	ok	1.66							
135	ok	1.35							
139	ok	1.21							
143	ok	1.19							
147	ok	1.19							
150	ok	1.10							
152	ok Av	8.04	0.11	0.28	3.4	8.9	80.7	212.0	
157	ok Av	12.33	0.25	0.38	8.1	12.2	192.8	289.4	
161	ok Av	5.79	0.14	0.16	4.6	5.2	108.2	122.5	
165	ok	3.30							
166	ok	3.66							
167	ok	0.84							
168	ok	1.30							
169	ok	3.11							
173	ok	3.60							
174	ok	2.72							
175	ok	2.36							
179	ok	3.78							
183	ok	2.56							
184	ok	1.66							
185	ok	3.21							
186	ok	2.42							
187	ok Av	6.99	0.25	0.05	8.1	1.7	192.8	40.9	
188	ok	1.40							
189	ok Av	10.27	0.02	0.38	0.5	12.2	12.7	289.4	
190	ok	1.52							
191	ok	1.71							
192	ok	2.48							
193	ok	3.33							
194	ok	3.58							
195	ok	3.06							
196	ok	2.68							
197	ok	3.37							
198	ok	1.68							
199	ok	3.75							
200	ok	2.68							
201	ok Av	5.87	0.21	0.04	6.9	1.3	162.8	29.8	
202	ok	1.37							
203	ok	2.42							
204	ok	2.60							
205	ok	1.53							
206	ok Av	6.19	0.03	0.23	1.0	7.3	24.7	174.3	
207	ok	2.10							
208	ok	2.54							
209	ok	4.37							
210	ok	1.36							
211	ok	1.78							
212	ok	2.43							
213	ok	1.80							
214	ok Av	6.37	0.23	0.04	7.5	1.2	177.6	28.9	
215	ok	2.70							
216	ok	2.92							

217	ok	3.88
218	ok	3.76
219	ok	3.42
220	ok	1.96
240	ok	1.61
241	ok	1.26
242	ok	1.20
243	ok	1.19
244	ok	1.18
245	ok	1.09
246	ok	0.98
247	ok	0.57
248	ok	0.55
249	ok	0.63
250	ok	0.51
251	ok	0.97
252	ok	1.56
253	ok	1.06
254	ok	0.99
255	ok	1.05
256	ok	1.10
257	ok	1.27
258	ok	1.36
259	ok	1.03
260	ok	0.95
261	ok	0.90
262	ok	0.94
263	ok	0.90
264	ok	1.08
265	ok	0.84
266	ok	0.97
267	ok	1.03
268	ok	1.09
269	ok	1.14

Nodo	Max tau 12.33	Ver V pr 0.25	Ver V sec 0.38	Af V pr 8.13	Af V sec 12.20	V pr 192.82	V sec 289.36
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Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
8	35.00	1	3	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x kN/ m	N y kN/ m	N xy kN/ m	M x kN	M y kN	M xy kN
1	ok	0.19	0.2	2.43e-02	17.0	17.0	17.0	17.0	-125.8	-9.5	-11.0	-35.8	-2.0	-1.5
2	ok	0.19	0.2	2.98e-02	17.0	17.0	17.0	17.0	-36.9	-18.5	-15.7	-7.0	17.9	-4.7
3	ok	0.19	6.93e-02	2.57e-02	17.0	17.0	17.0	17.0	-89.6	-4.0	9.0	12.3	1.8	0.5
5	ok	0.19	0.2	2.02e-02	17.0	17.0	17.0	17.0	-104.1	-26.7	-10.1	-29.9	-30.3	7.6
6	ok	0.19	0.2	1.73e-02	17.0	17.0	17.0	17.0	-79.8	-24.7	17.3	-33.4	-30.7	6.3
7	ok	0.19	0.1	2.26e-02	17.0	17.0	17.0	17.0	-101.8	-6.5	1.6	-27.7	-1.7	-0.3
8	ok	0.19	0.2	4.51e-02	17.0	17.0	17.0	17.0	-155.1	13.0	49.2	-16.0	-31.1	-8.6
9	ok	0.19	3.30e-02	8.42e-03	17.0	17.0	17.0	17.0	-43.4	-24.5	-0.3	-1.7	-1.8	-4.1
10	ok	0.19	4.23e-02	5.96e-03	17.0	17.0	17.0	17.0	-34.5	-25.9	-1.7	-2.2	-2.1	5.3
11	ok	0.19	0.2	2.34e-02	17.0	17.0	17.0	17.0	-9.75e-02	-104.4	26.3	-4.2	-33.6	2.0
12	ok	0.19	0.2	2.39e-02	17.0	17.0	17.0	17.0	-6.4	-119.0	8.3	-3.3	-45.9	2.6
27	ok	0.19	0.1	2.86e-02	17.0	17.0	17.0	17.0	-115.6	-89.7	-37.9	-9.7	-19.5	-10.1
37	ok	0.19	0.1	1.59e-02	17.0	17.0	17.0	17.0	-41.9	-88.0	-1.7	-4.0	-16.8	9.9
47	ok	0.19	0.2	2.22e-02	17.0	17.0	17.0	17.0	-54.2	-118.3	12.4	-1.9	-29.2	7.4
57	ok	0.19	0.2	2.34e-02	17.0	17.0	17.0	17.0	-70.5	-128.7	23.1	-3.0	-30.2	4.7
61	ok	0.19	0.2	2.33e-02	17.0	17.0	17.0	17.0	-70.5	-128.1	23.1	-3.1	-31.0	4.4
68	ok	0.19	0.2	2.38e-02	17.0	17.0	17.0	17.0	0.5	-107.8	23.4	-4.5	-36.5	2.0
72	ok	0.19	0.2	2.35e-02	17.0	17.0	17.0	17.0	-4.6	-108.3	12.9	-5.2	-38.5	2.3
76	ok	0.19	0.1	2.20e-02	17.0	17.0	17.0	17.0	-104.5	-28.5	-19.2	-25.3	-8.1	-1.5
83	ok	0.19	0.1	2.13e-02	17.0	17.0	17.0	17.0	-110.9	48.4	17.2	-16.0	-15.3	-4.8
87	ok	0.19	0.1	2.05e-02	17.0	17.0	17.0	17.0	-91.6	8.6	2.5	-25.4	-2.9	-2.0
91	ok	0.19	0.1	2.20e-02	17.0	17.0	17.0	17.0	-99.5	0.5	-0.9	-27.0	-3.2	-1.2
95	ok	0.19	0.1	2.22e-02	17.0	17.0	17.0	17.0	-101.3	-7.8	0.8	-27.5	-3.5	-0.4
99	ok	0.19	0.1	2.27e-02	17.0	17.0	17.0	17.0	-104.9	-8.2	0.8	-27.6	-3.5	-0.5
106	ok	0.19	6.44e-02	2.25e-02	17.0	17.0	17.0	17.0	-91.9	-21.8	17.3	11.0	4.5	2.3
110	ok	0.19	6.23e-02	2.31e-02	17.0	17.0	17.0	17.0	-91.8	-18.6	17.1	11.3	1.5	1.2



114	ok	0.19	6.43e-02	2.36e-02	17.0	17.0	17.0	17.0	-90.7	-16.4	16.1	11.8	1.6	0.4
118	ok	0.19	6.61e-02	2.41e-02	17.0	17.0	17.0	17.0	-91.2	-16.5	16.1	12.2	1.6	0.3
122	ok	0.19	6.83e-02	2.53e-02	17.0	17.0	17.0	17.0	-90.5	-12.0	14.8	12.5	1.7	0.1
129	ok	0.19	0.2	2.48e-02	17.0	17.0	17.0	17.0	-108.6	-18.9	-24.6	-28.8	-3.9	-1.8
133	ok	0.19	0.2	2.53e-02	17.0	17.0	17.0	17.0	-110.8	-19.9	-25.0	-30.6	-3.6	-1.8
137	ok	0.19	0.2	2.53e-02	17.0	17.0	17.0	17.0	-113.1	-20.5	-24.1	-32.0	-3.7	-1.7
141	ok	0.19	0.2	2.46e-02	17.0	17.0	17.0	17.0	-114.3	-15.9	-16.3	-33.2	-4.1	-1.5
145	ok	0.19	0.2	2.48e-02	17.0	17.0	17.0	17.0	-124.7	-17.1	-16.3	-34.7	-4.3	-1.3
151	ok	0.19	0.1	2.12e-02	17.0	17.0	17.0	17.0	-111.9	-2.4	6.8	-13.9	-17.2	8.1
158	ok	0.19	0.1	2.21e-02	17.0	17.0	17.0	17.0	-120.7	-39.9	10.7	-7.0	19.7	2.3
162	ok	0.19	0.1	2.43e-02	17.0	17.0	17.0	17.0	-107.0	-18.7	-24.6	-27.3	-3.7	-1.9
171	ok	0.19	0.2	2.45e-02	17.0	17.0	17.0	17.0	-5.9	-119.2	12.9	-5.7	-42.3	2.3
176	ok	0.19	7.55e-02	2.18e-02	17.0	17.0	17.0	17.0	-91.9	-22.9	19.5	10.3	8.8	2.6
180	ok	0.19	0.2	3.80e-02	17.0	17.0	17.0	17.0	-155.1	13.0	49.2	-16.0	-31.1	-8.6
221	ok	0.19	0.1	1.84e-02	17.0	17.0	17.0	17.0	-103.8	-35.3	11.3	-18.5	-2.8	-9.5
222	ok	0.19	0.1	2.11e-02	17.0	17.0	17.0	17.0	-118.4	-41.8	13.1	-24.5	-1.2	-4.8
223	ok	0.19	0.1	2.07e-02	17.0	17.0	17.0	17.0	-116.3	-46.0	3.8	-24.4	-1.2	5.1
224	ok	0.19	0.1	1.83e-02	17.0	17.0	17.0	17.0	-105.4	-40.2	-3.5	-19.9	-1.6	10.1
225	ok	0.19	7.91e-02	1.43e-02	17.0	17.0	17.0	17.0	-75.1	-31.8	11.3	-6.9	-1.4	-9.6
226	ok	0.19	0.1	1.32e-02	17.0	17.0	17.0	17.0	-75.9	-30.9	-1.7	-10.5	-3.1	10.5
239	ok	0.19	0.2	2.05e-02	17.0	17.0	17.0	17.0	-63.0	-90.8	13.5	12.5	34.4	-5.4
270	ok	0.19	0.1	2.25e-02	17.0	17.0	17.0	17.0	-110.3	-68.0	-3.0	23.5	21.2	0.9
271	ok	0.19	0.1	2.24e-02	17.0	17.0	17.0	17.0	-116.7	-37.6	-6.6	-11.2	19.0	6.8
272	ok	0.19	0.2	2.64e-02	17.0	17.0	17.0	17.0	-116.5	-36.0	-12.6	-14.5	-8.4	16.1
273	ok	0.19	0.2	1.83e-02	17.0	17.0	17.0	17.0	-62.7	-85.5	15.7	-9.2	39.9	6.2
274	ok	0.19	0.2	2.10e-02	17.0	17.0	17.0	17.0	-48.4	-101.7	5.2	5.1	42.2	3.7
275	ok	0.19	0.2	1.80e-02	17.0	17.0	17.0	17.0	-78.0	-92.6	13.5	18.0	35.0	-7.8
276	ok	0.19	0.2	2.42e-02	17.0	17.0	17.0	17.0	-12.0	-109.3	19.9	-4.8	-36.6	3.2
277	ok	0.19	0.2	2.39e-02	17.0	17.0	17.0	17.0	-13.6	-106.1	23.4	-4.2	-33.6	3.0
278	ok	0.19	0.2	2.35e-02	17.0	17.0	17.0	17.0	-61.8	-127.1	23.1	-2.0	-30.9	4.8
279	ok	0.19	0.1	2.71e-02	17.0	17.0	17.0	17.0	-138.0	-8.9	4.9	15.6	-11.5	15.5
280	ok	0.19	0.2	2.03e-02	17.0	17.0	17.0	17.0	-104.6	-34.3	-12.5	-27.9	-10.0	16.1
281	ok	0.19	0.2	1.72e-02	17.0	17.0	17.0	17.0	-83.3	-80.6	8.9	30.1	26.4	2.4
282	ok	0.19	0.2	1.61e-02	17.0	17.0	17.0	17.0	-88.4	-75.9	4.6	27.0	22.5	-6.9
283	ok	0.19	0.2	3.04e-02	17.0	17.0	17.0	17.0	-105.6	-60.4	-37.9	-8.5	-34.8	-10.7
284	ok	0.19	0.2	1.94e-02	17.0	17.0	17.0	17.0	-53.0	-99.6	5.5	19.8	37.9	8.8
285	ok	0.19	0.2	2.05e-02	17.0	17.0	17.0	17.0	-113.6	-65.3	-2.1	25.8	15.5	9.5
286	ok	0.19	0.2	1.65e-02	17.0	17.0	17.0	17.0	-94.4	-78.5	4.6	33.4	27.6	-2.1
287	ok	0.19	0.2	2.02e-02	17.0	17.0	17.0	17.0	-69.7	-89.4	8.9	21.6	31.1	-0.2
288	ok	0.19	0.2	1.90e-02	17.0	17.0	17.0	17.0	-106.4	-57.0	13.1	-17.0	9.3	-11.9
289	ok	0.19	0.2	1.80e-02	17.0	17.0	17.0	17.0	-84.1	-80.7	3.7	20.0	25.2	9.2
290	ok	0.19	0.2	1.81e-02	17.0	17.0	17.0	17.0	-93.4	-70.6	4.6	33.3	27.0	-0.5
291	ok	0.19	0.1	2.14e-02	17.0	17.0	17.0	17.0	-102.4	-56.6	4.5	23.4	14.2	-7.3
292	ok	0.19	0.2	3.87e-02	17.0	17.0	17.0	17.0	-155.1	13.0	49.2	-16.0	-31.1	-8.6
293	ok	0.19	0.2	1.76e-02	17.0	17.0	17.0	17.0	-84.5	-91.2	8.9	30.8	32.2	-2.4
294	ok	0.19	0.1	2.10e-02	17.0	17.0	17.0	17.0	-94.9	-17.4	2.7	-25.6	-5.1	-0.6
295	ok	0.19	0.1	2.21e-02	17.0	17.0	17.0	17.0	-100.4	-7.6	1.0	-27.0	-3.5	-0.4
296	ok	0.19	0.1	2.25e-02	17.0	17.0	17.0	17.0	-101.3	-7.7	1.0	-27.5	-3.5	-0.3
297	ok	0.19	0.1	2.30e-02	17.0	17.0	17.0	17.0	-104.5	-5.1	0.8	-27.6	-3.2	-0.4
298	ok	0.19	0.1	2.45e-02	17.0	17.0	17.0	17.0	-101.1	-0.8	1.6	-27.7	-2.1	-0.2
299	ok	0.19	0.2	2.37e-02	17.0	17.0	17.0	17.0	-82.1	-88.8	-0.3	-9.1	-19.1	-12.6
300	ok	0.19	0.2	2.42e-02	17.0	17.0	17.0	17.0	-108.6	-18.8	-24.6	-28.7	-3.4	-3.0
301	ok	0.19	0.2	2.47e-02	17.0	17.0	17.0	17.0	-110.6	-18.5	-25.0	-30.6	-3.4	-2.8
302	ok	0.19	0.2	2.47e-02	17.0	17.0	17.0	17.0	-112.5	-15.8	-22.0	-31.9	-3.5	-2.3
303	ok	0.19	0.2	2.43e-02	17.0	17.0	17.0	17.0	-113.7	-10.6	-16.3	-33.2	-3.6	-2.3
304	ok	0.19	0.2	2.50e-02	17.0	17.0	17.0	17.0	-124.1	-11.9	-16.3	-34.7	-3.8	-2.1
305	ok	0.19	0.2	2.76e-02	17.0	17.0	17.0	17.0	-125.0	-3.4	-11.0	-36.0	-3.1	-2.3
306	ok	0.19	0.2	2.24e-02	17.0	17.0	17.0	17.0	-127.1	-29.7	-6.1	30.2	4.2	-0.4
307	ok	0.19	0.2	2.33e-02	17.0	17.0	17.0	17.0	-133.3	-26.0	-8.4	29.6	3.8	-0.5
308	ok	0.19	0.2	2.38e-02	17.0	17.0	17.0	17.0	-136.5	-17.9	-7.7	28.9	3.3	-0.6
309	ok	0.19	0.1	2.42e-02	17.0	17.0	17.0	17.0	-141.0	-18.5	-7.7	28.4	3.3	-0.5
310	ok	0.19	0.1	2.52e-02	17.0	17.0	17.0	17.0	-146.7	-14.0	-4.4	28.2	3.0	-0.5
311	ok	0.19	0.1	2.83e-02	17.0	17.0	17.0	17.0	-165.2	-6.8	-0.7	28.7	1.2	0.2
312	ok	0.19	0.2	2.27e-02	17.0	17.0	17.0	17.0	-127.4	-32.7	-6.1	30.3	5.3	-0.3
313	ok	0.19	0.2	2.33e-02	17.0	17.0	17.0	17.0	-132.6	-20.5	-9.0	29.5	3.4	-0.8
314	ok	0.19	0.2	2.36e-02	17.0	17.0	17.0	17.0	-136.4	-16.8	-7.7	28.9	3.5	-0.7
315	ok	0.19	0.1	2.42e-02	17.0	17.0	17.0	17.0	-140.8	-17.4	-7.7	28.4	3.4	-0.7
316	ok	0.19	0.1	2.53e-02	17.0	17.0	17.0	17.0	-146.5	-12.3	-4.4	28.2	3.0	-0.5
317	ok	0.19	0.1	2.83e-02	17.0	17.0	17.0	17.0	-165.1	-5.7	-0.7	28.9	2.3	0.5
318	ok	0.19	8.77e-02	2.24e-02	17.0	17.0	17.0	17.0	-119.7	-25.7	10.2	16.0	4.68e-02	2.6
319	ok	0.19	6.70e-02	2.18e-02	17.0	17.0	17.0	17.0	-117.8	-21.5	6.4	12.2	-1.7	-0.5
320	ok	0.19	6.17e-02	2.20e-02	17.0	17.0	17.0	17.0	-125.2	-10.4	1.1	11.5	1.4	-1.1
321	ok	0.19	6.30e-02	2.26e-02	17.0	17.0	17.0	17.0	-92.4	-9.1	-2.3	11.4	1.3	-1.5
322	ok	0.19	0.3	2.35e-02	17.0	17.0	17.0	17.0	-6.0	-73.8	1.3	7.5	52.0	-10.1
323	ok	0.19	0.2	2.08e-02	17.0	17.0	17.0	17.0	-96.6	-60.8	3.7	23.6	14.7	7.6

324	ok	0.19	0.2	2.14e-02	17.0	17.0	17.0	17.0	-121.0	-28.9	-6.1	30.0	4.1	-0.9
325	ok	0.19	0.2	2.20e-02	17.0	17.0	17.0	17.0	-23.8	-94.4	6.6	12.9	33.9	0.7
326	ok	0.19	0.2	1.90e-02	17.0	17.0	17.0	17.0	-81.5	-59.0	3.7	18.7	14.1	11.8
327	ok	0.19	6.67e-02	2.35e-02	17.0	17.0	17.0	17.0	-99.4	-11.6	1.0	11.9	1.6	-1.6
328	ok	0.19	7.23e-02	2.45e-02	17.0	17.0	17.0	17.0	-94.1	-2.5	-1.9	13.1	1.6	-1.6
329	ok	0.19	0.1	2.39e-02	17.0	17.0	17.0	17.0	-107.1	-19.4	-23.0	-27.3	-4.1	-3.2
330	ok	0.19	0.1	2.25e-02	17.0	17.0	17.0	17.0	-119.7	-24.6	17.2	-15.7	-12.3	-3.3
331	ok	0.19	0.2	2.23e-02	17.0	17.0	17.0	17.0	-110.6	-29.7	-7.0	30.3	-2.2	1.3
332	ok	0.19	0.2	2.04e-02	17.0	17.0	17.0	17.0	-112.4	-44.7	-7.0	30.3	-1.9	-1.7
333	ok	0.19	0.2	2.17e-02	17.0	17.0	17.0	17.0	-94.0	-47.2	1.6	36.0	2.1	-1.4
334	ok	0.19	0.2	1.89e-02	17.0	17.0	17.0	17.0	-95.0	-61.1	1.4	37.9	6.6	-4.7
335	ok	0.19	0.2	1.93e-02	17.0	17.0	17.0	17.0	-62.6	-69.7	7.4	39.2	23.4	-9.6
336	ok	0.19	0.2	1.85e-02	17.0	17.0	17.0	17.0	-63.9	-80.7	7.4	39.3	24.2	-0.7
337	ok	0.19	0.3	2.89e-02	17.0	17.0	17.0	17.0	-10.8	-74.4	1.3	14.2	52.8	-15.4
338	ok	0.19	0.2	2.17e-02	17.0	17.0	17.0	17.0	-40.3	-95.9	6.6	24.3	40.1	-6.7
339	ok	0.19	0.2	2.24e-02	17.0	17.0	17.0	17.0	-23.7	-93.9	6.6	13.5	38.8	-4.9
340	ok	0.19	0.2	1.99e-02	17.0	17.0	17.0	17.0	-40.4	-96.4	6.6	23.7	35.2	-1.1
341	ok	0.19	0.2	2.39e-02	17.0	17.0	17.0	17.0	-2.9	-118.6	8.3	-4.2	-46.0	4.2
342	ok	0.19	0.2	2.48e-02	17.0	17.0	17.0	17.0	-9.1	-119.6	12.9	-5.7	-42.3	3.7
343	ok	0.19	0.2	2.37e-02	17.0	17.0	17.0	17.0	-7.8	-108.7	12.9	-5.2	-38.5	3.7
344	ok	0.19	0.2	2.15e-02	17.0	17.0	17.0	17.0	-121.4	-32.0	-6.1	30.1	5.3	-0.8
345	ok	0.19	0.2	2.35e-02	17.0	17.0	17.0	17.0	-58.1	-123.0	28.2	4.1	-31.9	3.5
346	ok	0.19	0.1	2.02e-02	17.0	17.0	17.0	17.0	-113.4	-45.4	-2.8	25.7	-0.7	-7.9
347	ok	0.19	0.2	2.22e-02	17.0	17.0	17.0	17.0	-66.4	-119.7	12.4	4.9	-28.4	12.2
348	ok	0.19	0.2	2.01e-02	17.0	17.0	17.0	17.0	-101.8	-41.7	17.0	-30.6	-9.2	-10.4
349	ok	0.19	0.2	1.79e-02	17.0	17.0	17.0	17.0	-67.7	-79.8	5.7	33.8	20.0	8.7
350	ok	0.19	0.2	2.17e-02	17.0	17.0	17.0	17.0	-37.8	-97.8	5.5	9.9	36.7	6.9
351	ok	0.19	0.2	1.63e-02	17.0	17.0	17.0	17.0	-83.4	-93.0	-1.7	-12.3	-17.8	15.1
352	ok	0.19	0.1	2.43e-02	17.0	17.0	17.0	17.0	-128.6	-32.8	4.9	22.9	0.9	7.4

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
	0.19	0.32	0.05	16.96	16.96	16.96	16.96	-165.20	-128.68	-37.94	-35.98	-46.02	-15.37
								0.45	48.41	49.24	39.33	52.79	16.11

Nodo	Stato	Max tau N/mm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr kN/ m	V sec kN/ m
1	ok	3.12						
2	ok Av	7.71	0.15	0.24	4.9	7.7	116.7	183.5
3	ok	2.29						
5	ok Av	6.74	0.18	0.17	5.8	5.5	137.9	131.1
6	ok Av	6.42	0.17	0.17	5.4	5.4	128.3	127.9
7	ok	1.78						
8	ok Av	8.07	0.19	0.25	6.2	8.0	147.8	190.4
9	ok	1.84						
10	ok	1.99						
11	ok	3.53						
12	ok	4.05						
27	ok	4.44						
37	ok	2.62						
47	ok	3.82						
57	ok	3.64						
61	ok	3.40						
68	ok	3.79						
72	ok	3.99						
76	ok	2.75						
83	ok	3.42						
87	ok	2.07						
91	ok	2.13						
95	ok	2.06						
99	ok	2.04						
106	ok	2.35						
110	ok	2.09						
114	ok	1.99						
118	ok	1.92						
122	ok	1.88						
129	ok	2.82						
133	ok	2.85						
137	ok	2.82						
141	ok	2.79						
145	ok	2.75						
151	ok	4.38						
158	ok	2.81						
162	ok	2.94						
171	ok	4.14						

176	ok	2.27							
180	ok	4.72							
221	ok	2.64							
222	ok	3.55							
223	ok	3.56							
224	ok	3.31							
225	ok	1.76							
226	ok	2.19							
239	ok	1.64							
270	ok	2.17							
271	ok	4.71							
272	ok	0.98							
273	ok	4.56							
274	ok	1.53							
275	ok	1.66							
276	ok	3.73							
277	ok	3.46							
278	ok	3.39							
279	ok	2.00							
280	ok	4.44							
281	ok	1.28							
282	ok	4.42							
283	ok Av	6.77	0.05	0.25	1.7	8.0	39.8	190.4	
284	ok	1.90							
285	ok	1.62							
286	ok	1.43							
287	ok	1.72							
288	ok	2.51							
289	ok	1.67							
290	ok	1.29							
291	ok	3.38							
292	ok	3.83							
293	ok	1.19							
294	ok	2.01							
295	ok	2.10							
296	ok	2.05							
297	ok	2.02							
298	ok	1.77							
299	ok	1.57							
300	ok	2.82							
301	ok	2.85							
302	ok	2.82							
303	ok	2.79							
304	ok	2.74							
305	ok	3.12							
306	ok	0.86							
307	ok	0.95							
308	ok	0.98							
309	ok	1.06							
310	ok	0.91							
311	ok	1.53							
312	ok	2.37							
313	ok	2.08							
314	ok	1.99							
315	ok	1.92							
316	ok	1.88							
317	ok	2.29							
318	ok	1.43							
319	ok	1.22							
320	ok	1.27							
321	ok	1.41							
322	ok	2.14							
323	ok	3.40							
324	ok	0.79							
325	ok	1.75							
326	ok	2.92							
327	ok	1.53							
328	ok	1.96							
329	ok	2.89							
330	ok	1.98							
331	ok	2.70							
332	ok	1.66							
333	ok	3.44							
334	ok	1.25							
335	ok	4.32							

336	ok	1.35						
337	ok Av	6.51	6.16e-03	0.24	0.2	7.7	4.7	183.5
338	ok	0.82						
339	ok	1.89						
340	ok	1.29						
341	ok	4.05						
342	ok	4.13						
343	ok	3.96						
344	ok	2.27						
345	ok	3.57						
346	ok	1.82						
347	ok	3.38						
348	ok	5.05						
349	ok	4.71						
350	ok	1.70						
351	ok	2.34						
352	ok	1.41						
<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>
		8.07	0.19	0.25	6.23	8.03	147.82	190.44

## 17 STATI LIMITE D' ESERCIZIO

### 17.1 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:

pilastrati	<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
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Si precisa che i valori di massima deformazione per travi sono riferiti al piano verticale (piano locale 1-2 con momenti flettenti 3-3).

Setto	rRfck	rRfyk	rPfck	Rif. cmb	wR mm	wF mm	wP mm	Rif. cmb
1	0.08	0.07	0.07	58,58,65	0.0	0.0	0.0	0,0,0
2	0.09	0.11	0.05	58,60,65	0.0	0.0	0.0	0,0,0
3	0.12	0.19	0.09	60,60,65	0.0	0.0	0.0	0,0,0
7	0.03	0.06	0.02	61,58,65	0.0	0.0	0.0	0,0,0
8	0.02	0.04	0.02	61,61,65	0.0	0.0	0.0	0,0,0
9	0.04	0.03	0.02	61,61,65	0.0	0.0	0.0	0,0,0
10	0.06	0.16	0.05	61,61,65	0.0	0.0	0.0	0,0,0
11	0.04	0.17	0.03	61,58,65	0.0	0.0	0.0	0,0,0
12	0.06	0.21	0.03	61,58,65	0.0	0.0	0.0	0,0,0
13	0.04	0.06	0.06	59,59,65	0.0	0.0	0.0	0,0,0
14	0.03	0.03	0.04	59,59,65	0.0	0.0	0.0	0,0,0
15	0.03	0.03	0.05	59,61,65	0.0	0.0	0.0	0,0,0
16	0.06	0.04	0.04	61,61,65	0.0	0.0	0.0	0,0,0
17	0.06	0.08	0.09	59,59,65	0.0	0.0	0.0	0,0,0
18	0.05	0.03	0.04	61,59,65	0.0	0.0	0.0	0,0,0
31	0.07	0.07	0.05	61,61,65	0.0	0.0	0.0	0,0,0
32	0.05	0.06	0.10	59,59,65	0.0	0.0	0.0	0,0,0
33	0.05	0.06	0.01	61,61,65	0.0	0.0	0.0	0,0,0
34	0.08	0.09	0.06	58,61,65	0.0	0.0	0.0	0,0,0
35	0.05	0.05	0.09	59,59,65	0.0	0.0	0.0	0,0,0
36	0.04	0.06	0.02	61,61,65	0.0	0.0	0.0	0,0,0
37	0.09	0.10	0.07	58,61,65	0.0	0.0	0.0	0,0,0
38	0.05	0.04	0.09	59,59,65	0.0	0.0	0.0	0,0,0
39	0.03	0.04	0.02	60,58,65	0.0	0.0	0.0	0,0,0
40	0.10	0.10	0.08	58,61,65	0.0	0.0	0.0	0,0,0
41	0.05	0.05	0.09	61,61,65	0.0	0.0	0.0	0,0,0
42	0.03	0.05	0.03	58,58,65	0.0	0.0	0.0	0,0,0
43	0.10	0.11	0.08	58,60,65	0.0	0.0	0.0	0,0,0
44	0.05	0.05	0.09	61,61,65	0.0	0.0	0.0	0,0,0
45	0.04	0.04	0.04	58,58,65	0.0	0.0	0.0	0,0,0
46	0.06	0.11	0.03	58,58,65	0.0	0.0	0.0	0,0,0
47	0.07	0.08	0.09	61,61,65	0.0	0.0	0.0	0,0,0
48	0.05	0.03	0.02	58,58,65	0.0	0.0	0.0	0,0,0
49	0.06	0.15	0.03	58,58,65	0.0	0.0	0.0	0,0,0
50	0.06	0.08	0.09	61,61,65	0.0	0.0	0.0	0,0,0
51	0.07	0.12	0.03	58,58,65	0.0	0.0	0.0	0,0,0
52	0.04	0.05	0.03	58,60,65	0.0	0.0	0.0	0,0,0
53	0.03	0.02	0.02	58,58,65	0.0	0.0	0.0	0,0,0
54	0.06	0.09	0.05	60,60,65	0.0	0.0	0.0	0,0,0
55	0.04	0.13	0.05	58,61,65	0.0	0.0	0.0	0,0,0
56	0.07	0.15	0.09	58,59,65	0.0	0.0	0.0	0,0,0
57	0.04	0.15	0.04	58,58,65	0.0	0.0	0.0	0,0,0
58	0.03	0.06	0.03	58,61,65	0.0	0.0	0.0	0,0,0
59	0.08	0.13	0.10	58,59,65	0.0	0.0	0.0	0,0,0
60	0.03	0.10	0.03	58,58,65	0.0	0.0	0.0	0,0,0
61	0.03	0.03	0.03	58,61,65	0.0	0.0	0.0	0,0,0
62	0.08	0.12	0.11	58,58,65	0.0	0.0	0.0	0,0,0
63	0.03	0.06	0.02	58,58,65	0.0	0.0	0.0	0,0,0
64	0.03	0.02	0.03	58,58,65	0.0	0.0	0.0	0,0,0
65	0.08	0.12	0.11	58,58,65	0.0	0.0	0.0	0,0,0
66	0.02	0.03	0.02	58,58,65	0.0	0.0	0.0	0,0,0
67	0.02	0.03	0.02	58,58,65	0.0	0.0	0.0	0,0,0
68	0.09	0.12	0.11	58,58,65	0.0	0.0	0.0	0,0,0
69	0.02	0.03	0.01	58,58,65	0.0	0.0	0.0	0,0,0
70	0.10	0.12	0.10	58,60,65	0.0	0.0	0.0	0,0,0
71	0.06	0.07	0.09	61,61,65	0.0	0.0	0.0	0,0,0
72	0.05	0.07	0.06	58,60,65	0.0	0.0	0.0	0,0,0
73	0.04	0.02	0.03	58,58,65	0.0	0.0	0.0	0,0,0
74	0.02	0.03	0.02	58,60,65	0.0	0.0	0.0	0,0,0
75	0.02	0.03	0.02	60,60,65	0.0	0.0	0.0	0,0,0
76	0.04	0.02	0.03	58,58,65	0.0	0.0	0.0	0,0,0
77	0.02	0.01	0.02	58,58,65	0.0	0.0	0.0	0,0,0
78	0.01	0.02	0.01	58,60,65	0.0	0.0	0.0	0,0,0
79	0.04	0.02	0.03	58,58,65	0.0	0.0	0.0	0,0,0
80	0.02	0.01	0.02	58,58,65	0.0	0.0	0.0	0,0,0
81	0.01	0.01	0.02	61,60,65	0.0	0.0	0.0	0,0,0
82	0.04	0.02	0.03	58,58,65	0.0	0.0	0.0	0,0,0
83	0.02	0.01	0.02	58,58,65	0.0	0.0	0.0	0,0,0
84	0.02	0.01	0.02	61,61,65	0.0	0.0	0.0	0,0,0
85	0.03	0.02	0.02	58,58,65	0.0	0.0	0.0	0,0,0
86	0.02	0.01	0.02	58,58,65	0.0	0.0	0.0	0,0,0

87	0.02	0.01	0.02	61,61,65	0.0	0.0	0.0	0,0,0
91	0.05	0.08	0.04	58,58,65	0.0	0.0	0.0	0,0,0
92	0.07	0.08	0.09	61,61,65	0.0	0.0	0.0	0,0,0
93	0.02	0.03	8.64e-03	58,58,65	0.0	0.0	0.0	0,0,0
94	0.05	0.06	0.05	58,58,65	0.0	0.0	0.0	0,0,0
95	0.07	0.08	0.09	61,61,65	0.0	0.0	0.0	0,0,0
96	0.01	0.02	9.53e-03	58,58,65	0.0	0.0	0.0	0,0,0
97	0.05	0.05	0.06	58,58,65	0.0	0.0	0.0	0,0,0
98	0.07	0.08	0.09	61,61,65	0.0	0.0	0.0	0,0,0
99	9.75e-03	0.02	0.01	61,58,65	0.0	0.0	0.0	0,0,0
100	0.05	0.05	0.06	58,58,65	0.0	0.0	0.0	0,0,0
101	0.07	0.08	0.09	61,61,65	0.0	0.0	0.0	0,0,0
102	0.01	8.29e-03	0.01	61,58,65	0.0	0.0	0.0	0,0,0
103	0.05	0.06	0.07	61,61,65	0.0	0.0	0.0	0,0,0
104	0.07	0.09	0.09	61,61,65	0.0	0.0	0.0	0,0,0
105	0.01	0.02	0.01	61,60,65	0.0	0.0	0.0	0,0,0
106	0.09	0.06	0.02	58,58,65	0.0	0.0	0.0	0,0,0
107	0.07	0.05	0.10	61,61,65	0.0	0.0	0.0	0,0,0
108	0.15	0.18	0.10	58,58,65	0.0	0.0	0.0	0,0,0
109	0.10	0.12	0.09	58,60,65	0.0	0.0	0.0	0,0,0
110	0.06	0.06	0.09	61,61,65	0.0	0.0	0.0	0,0,0
111	0.05	0.04	0.05	58,58,65	0.0	0.0	0.0	0,0,0
112	0.04	0.04	0.03	58,60,65	0.0	0.0	0.0	0,0,0
113	0.03	0.06	0.02	58,60,65	0.0	0.0	0.0	0,0,0
114	0.04	0.05	0.03	60,60,65	0.0	0.0	0.0	0,0,0
115	0.06	0.22	0.06	61,60,65	0.0	0.0	0.0	0,0,0
116	0.04	0.28	0.05	58,58,65	0.0	0.0	0.0	0,0,0
117	0.05	0.29	0.07	58,58,65	0.0	0.0	0.0	0,0,0
118	0.05	0.13	0.05	58,61,65	0.0	0.0	0.0	0,0,0
119	0.05	0.13	0.06	58,58,65	0.0	0.0	0.0	0,0,0
120	0.04	0.16	0.04	58,58,65	0.0	0.0	0.0	0,0,0
166	0.04	0.04	0.06	59,59,65	0.0	0.0	0.0	0,0,0
167	0.03	0.03	0.05	59,59,65	0.0	0.0	0.0	0,0,0
168	0.04	0.05	0.07	59,59,65	0.0	0.0	0.0	0,0,0
169	0.05	0.03	0.03	61,61,65	0.0	0.0	0.0	0,0,0
170	0.06	0.07	0.08	59,59,65	0.0	0.0	0.0	0,0,0
171	0.05	0.04	0.04	61,61,65	0.0	0.0	0.0	0,0,0
172	0.06	0.03	0.04	61,61,65	0.0	0.0	0.0	0,0,0
173	0.06	0.07	0.09	59,59,65	0.0	0.0	0.0	0,0,0
174	0.06	0.04	0.02	61,61,65	0.0	0.0	0.0	0,0,0
175	0.06	0.04	0.04	61,61,65	0.0	0.0	0.0	0,0,0
176	0.06	0.07	0.09	59,59,65	0.0	0.0	0.0	0,0,0
177	0.06	0.04	0.01	61,61,65	0.0	0.0	0.0	0,0,0
178	0.06	0.04	0.04	61,61,65	0.0	0.0	0.0	0,0,0
179	0.06	0.08	0.09	59,59,65	0.0	0.0	0.0	0,0,0
180	0.06	0.04	0.02	61,61,65	0.0	0.0	0.0	0,0,0
181	0.04	0.03	0.04	61,61,65	0.0	0.0	0.0	0,0,0
182	0.05	0.07	0.07	59,59,65	0.0	0.0	0.0	0,0,0
183	0.04	0.03	0.02	61,61,65	0.0	0.0	0.0	0,0,0
184	0.04	0.03	0.06	59,59,65	0.0	0.0	0.0	0,0,0
185	0.03	0.02	0.04	59,59,65	0.0	0.0	0.0	0,0,0
186	0.04	0.05	0.06	59,59,65	0.0	0.0	0.0	0,0,0
340	0.06	0.10	0.04	58,58,65	0.0	0.0	0.0	0,0,0
341	0.07	0.08	0.09	61,61,65	0.0	0.0	0.0	0,0,0
342	0.04	0.02	9.64e-03	58,58,65	0.0	0.0	0.0	0,0,0

**Setto**      **rRfck**      **rRfyk**      **rPfck**      **wR**      **wF**      **wP**  
0.15      0.29      0.11      0.0      0.0      0.0

<b>Guscio</b>	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>	<b>Rif. cmb</b>	<b>wR</b>	<b>wF</b>	<b>wP</b>	<b>Rif. cmb</b>
					mm	mm	mm	
4	0.04	0.03	0.02	58,58,65	0.0	0.0	0.0	0,0,0
5	0.08	0.11	0.03	58,58,65	0.0	0.0	0.0	0,0,0
6	0.10	0.14	0.04	58,58,65	0.0	0.0	0.0	0,0,0
19	0.10	0.14	0.05	58,58,65	0.0	0.0	0.0	0,0,0
20	0.09	0.13	0.05	58,58,65	0.0	0.0	0.0	0,0,0
21	0.09	0.11	0.03	58,58,65	0.0	0.0	0.0	0,0,0
22	0.05	0.05	0.03	58,58,65	0.0	0.0	0.0	0,0,0
23	0.04	0.05	0.02	61,61,65	0.0	0.0	0.0	0,0,0
24	0.06	0.08	0.02	61,61,65	0.0	0.0	0.0	0,0,0
25	0.08	0.10	0.05	61,61,65	0.0	0.0	0.0	0,0,0
26	0.09	0.12	0.05	60,60,65	0.0	0.0	0.0	0,0,0
27	0.10	0.14	0.06	61,61,65	0.0	0.0	0.0	0,0,0
28	0.08	0.10	0.04	61,61,65	0.0	0.0	0.0	0,0,0



29	0.06	0.05	0.04	61,61,65	0.0	0.0	0.0	0,0,0
30	0.07	0.10	0.03	61,61,65	0.0	0.0	0.0	0,0,0
88	0.07	0.05	0.07	58,58,65	0.0	0.0	0.0	0,0,0
89	0.07	0.05	0.07	58,58,65	0.0	0.0	0.0	0,0,0
90	0.07	0.04	0.07	58,58,65	0.0	0.0	0.0	0,0,0
121	0.05	0.05	0.06	60,60,65	0.0	0.0	0.0	0,0,0
122	0.08	0.11	0.02	58,58,65	0.0	0.0	0.0	0,0,0
123	0.08	0.10	0.08	60,58,65	0.0	0.0	0.0	0,0,0
124	0.11	0.16	0.03	58,58,65	0.0	0.0	0.0	0,0,0
125	0.14	0.19	0.11	58,58,65	0.0	0.0	0.0	0,0,0
126	0.15	0.22	0.05	58,58,65	0.0	0.0	0.0	0,0,0
127	0.20	0.28	0.05	58,58,65	0.0	0.0	0.0	0,0,0
128	0.10	0.12	0.11	58,58,65	0.0	0.0	0.0	0,0,0
129	0.14	0.18	0.04	58,58,65	0.0	0.0	0.0	0,0,0
130	0.16	0.23	0.05	58,58,65	0.0	0.0	0.0	0,0,0
131	0.04	0.05	0.03	60,60,65	0.0	0.0	0.0	0,0,0
132	0.14	0.20	0.05	58,58,65	0.0	0.0	0.0	0,0,0
133	0.03	0.03	0.02	58,58,65	0.0	0.0	0.0	0,0,0
134	0.11	0.15	0.05	58,58,65	0.0	0.0	0.0	0,0,0
135	0.05	0.05	0.04	61,61,65	0.0	0.0	0.0	0,0,0
136	0.08	0.09	0.03	60,60,65	0.0	0.0	0.0	0,0,0
137	0.08	0.11	0.03	58,58,65	0.0	0.0	0.0	0,0,0
138	0.10	0.13	0.05	58,58,65	0.0	0.0	0.0	0,0,0
139	0.10	0.15	0.06	58,58,65	0.0	0.0	0.0	0,0,0
140	0.12	0.18	0.07	58,58,65	0.0	0.0	0.0	0,0,0
141	0.11	0.14	0.05	60,60,65	0.0	0.0	0.0	0,0,0
142	0.09	0.12	0.05	58,58,65	0.0	0.0	0.0	0,0,0
143	0.11	0.14	0.05	60,60,65	0.0	0.0	0.0	0,0,0
144	0.12	0.17	0.07	58,58,65	0.0	0.0	0.0	0,0,0
145	0.04	0.04	0.02	58,58,65	0.0	0.0	0.0	0,0,0
146	0.08	0.10	0.03	60,58,65	0.0	0.0	0.0	0,0,0
147	0.06	0.06	0.04	61,61,65	0.0	0.0	0.0	0,0,0
148	0.05	0.06	0.04	61,61,65	0.0	0.0	0.0	0,0,0
149	0.07	0.08	0.05	58,58,65	0.0	0.0	0.0	0,0,0
150	0.07	0.08	0.05	58,58,65	0.0	0.0	0.0	0,0,0
151	0.06	0.07	0.05	61,61,65	0.0	0.0	0.0	0,0,0
152	0.08	0.09	0.02	61,61,65	0.0	0.0	0.0	0,0,0
153	0.08	0.11	0.04	61,61,65	0.0	0.0	0.0	0,0,0
154	0.07	0.09	0.03	61,61,65	0.0	0.0	0.0	0,0,0
155	0.11	0.15	0.05	61,61,65	0.0	0.0	0.0	0,0,0
156	0.09	0.12	0.03	61,61,65	0.0	0.0	0.0	0,0,0
157	0.12	0.17	0.06	61,61,65	0.0	0.0	0.0	0,0,0
158	0.11	0.16	0.05	61,61,65	0.0	0.0	0.0	0,0,0
159	0.08	0.11	0.03	61,61,65	0.0	0.0	0.0	0,0,0
160	0.09	0.12	0.03	61,61,65	0.0	0.0	0.0	0,0,0
161	0.06	0.06	0.05	61,61,65	0.0	0.0	0.0	0,0,0
162	0.09	0.12	0.03	61,61,65	0.0	0.0	0.0	0,0,0
163	0.09	0.08	0.04	61,61,65	0.0	0.0	0.0	0,0,0
164	0.07	0.11	0.03	61,61,65	0.0	0.0	0.0	0,0,0
165	0.10	0.10	0.04	61,61,65	0.0	0.0	0.0	0,0,0
187	0.06	0.07	0.04	61,61,65	0.0	0.0	0.0	0,0,0
188	0.06	0.05	0.05	61,61,65	0.0	0.0	0.0	0,0,0
189	0.06	0.05	0.05	61,61,65	0.0	0.0	0.0	0,0,0
190	0.06	0.06	0.05	61,61,65	0.0	0.0	0.0	0,0,0
191	0.07	0.08	0.04	61,61,65	0.0	0.0	0.0	0,0,0
192	0.07	0.10	0.03	61,61,65	0.0	0.0	0.0	0,0,0
193	0.05	0.04	0.05	60,60,65	0.0	0.0	0.0	0,0,0
194	0.05	0.04	0.05	60,60,65	0.0	0.0	0.0	0,0,0
195	0.04	0.03	0.05	60,60,65	0.0	0.0	0.0	0,0,0
196	0.04	0.03	0.04	60,60,65	0.0	0.0	0.0	0,0,0
197	0.04	0.02	0.04	60,60,65	0.0	0.0	0.0	0,0,0
198	0.03	0.02	0.03	60,60,65	0.0	0.0	0.0	0,0,0
199	0.06	0.06	0.02	58,58,65	0.0	0.0	0.0	0,0,0
200	0.04	0.04	0.02	58,58,65	0.0	0.0	0.0	0,0,0
201	0.03	0.02	0.02	58,58,65	0.0	0.0	0.0	0,0,0
202	0.02	0.01	0.02	58,58,65	0.0	0.0	0.0	0,0,0
203	0.02	0.01	0.02	61,61,65	0.0	0.0	0.0	0,0,0
204	0.02	0.01	0.02	61,61,65	0.0	0.0	0.0	0,0,0
205	0.05	0.05	0.03	58,58,65	0.0	0.0	0.0	0,0,0
206	0.04	0.03	0.02	58,58,65	0.0	0.0	0.0	0,0,0
207	0.03	0.02	0.03	58,58,65	0.0	0.0	0.0	0,0,0
208	0.02	0.01	0.03	60,60,65	0.0	0.0	0.0	0,0,0
209	0.02	0.01	0.03	60,60,65	0.0	0.0	0.0	0,0,0
210	0.03	0.01	0.03	60,60,65	0.0	0.0	0.0	0,0,0
211	0.05	0.05	0.03	58,58,65	0.0	0.0	0.0	0,0,0

212	0.04	0.04	0.02	58,58,65	0.0	0.0	0.0	0,0,0
213	0.03	0.02	0.02	58,58,65	0.0	0.0	0.0	0,0,0
214	0.03	0.01	0.03	61,61,65	0.0	0.0	0.0	0,0,0
215	0.03	0.01	0.03	61,61,65	0.0	0.0	0.0	0,0,0
216	0.03	0.02	0.03	61,61,65	0.0	0.0	0.0	0,0,0
217	0.07	0.08	0.05	58,58,65	0.0	0.0	0.0	0,0,0
218	0.06	0.06	0.05	58,58,65	0.0	0.0	0.0	0,0,0
219	0.05	0.05	0.04	58,58,65	0.0	0.0	0.0	0,0,0
220	0.04	0.04	0.04	58,58,65	0.0	0.0	0.0	0,0,0
221	0.04	0.03	0.03	58,58,65	0.0	0.0	0.0	0,0,0
222	0.04	0.03	0.03	58,58,65	0.0	0.0	0.0	0,0,0
223	0.05	0.05	0.02	61,61,65	0.0	0.0	0.0	0,0,0
224	0.02	0.02	0.01	61,61,65	0.0	0.0	0.0	0,0,0
225	0.01	0.01	0.01	61,61,65	0.0	0.0	0.0	0,0,0
226	0.01	8.42e-03	0.01	58,58,65	0.0	0.0	0.0	0,0,0
227	0.01	8.71e-03	0.02	58,58,65	0.0	0.0	0.0	0,0,0
228	0.01	8.99e-03	0.02	58,58,65	0.0	0.0	0.0	0,0,0
229	0.04	0.06	0.03	61,61,65	0.0	0.0	0.0	0,0,0
230	0.03	0.03	0.03	60,61,65	0.0	0.0	0.0	0,0,0
231	0.03	0.02	0.04	60,61,65	0.0	0.0	0.0	0,0,0
232	0.04	0.02	0.05	60,61,65	0.0	0.0	0.0	0,0,0
233	0.04	0.03	0.05	60,61,65	0.0	0.0	0.0	0,0,0
234	0.04	0.03	0.06	60,60,65	0.0	0.0	0.0	0,0,0
235	0.10	0.10	0.14	61,61,65	0.0	0.0	0.0	0,0,0
236	0.07	0.06	0.02	58,58,65	0.0	0.0	0.0	0,0,0
237	0.12	0.15	0.07	58,58,65	0.0	0.0	0.0	0,0,0
238	0.11	0.14	0.07	58,58,65	0.0	0.0	0.0	0,0,0
239	0.11	0.13	0.07	58,58,65	0.0	0.0	0.0	0,0,0
240	0.11	0.14	0.07	58,58,65	0.0	0.0	0.0	0,0,0
241	0.09	0.07	0.06	58,58,65	0.0	0.0	0.0	0,0,0
242	0.06	0.06	0.05	61,61,65	0.0	0.0	0.0	0,0,0
243	0.08	0.08	0.06	61,61,65	0.0	0.0	0.0	0,0,0
244	0.08	0.07	0.07	61,61,65	0.0	0.0	0.0	0,0,0
245	0.08	0.08	0.07	61,61,65	0.0	0.0	0.0	0,0,0
246	0.10	0.10	0.06	58,58,65	0.0	0.0	0.0	0,0,0
247	0.05	0.03	0.02	58,58,65	0.0	0.0	0.0	0,0,0
248	0.10	0.09	0.13	61,61,65	0.0	0.0	0.0	0,0,0
249	0.08	0.08	0.07	61,61,65	0.0	0.0	0.0	0,0,0
250	0.06	0.04	0.07	61,58,65	0.0	0.0	0.0	0,0,0
251	0.09	0.08	0.05	58,58,65	0.0	0.0	0.0	0,0,0
252	0.05	0.05	0.06	61,58,65	0.0	0.0	0.0	0,0,0
253	0.10	0.12	0.05	58,58,65	0.0	0.0	0.0	0,0,0
254	0.07	0.09	0.05	58,58,65	0.0	0.0	0.0	0,0,0
255	0.11	0.14	0.07	58,58,65	0.0	0.0	0.0	0,0,0
256	0.17	0.24	0.08	58,58,65	0.0	0.0	0.0	0,0,0
257	0.09	0.11	0.09	58,58,65	0.0	0.0	0.0	0,0,0
258	0.12	0.15	0.07	58,58,65	0.0	0.0	0.0	0,0,0
259	0.12	0.17	0.08	58,58,65	0.0	0.0	0.0	0,0,0
260	0.12	0.12	0.16	60,60,65	0.0	0.0	0.0	0,0,0
261	0.09	0.10	0.02	58,58,65	0.0	0.0	0.0	0,0,0
262	0.11	0.11	0.15	60,60,65	0.0	0.0	0.0	0,0,0
263	0.08	0.07	0.02	58,58,65	0.0	0.0	0.0	0,0,0
264	0.10	0.10	0.13	61,61,65	0.0	0.0	0.0	0,0,0
265	0.06	0.05	0.02	58,58,65	0.0	0.0	0.0	0,0,0
266	0.08	0.09	0.04	60,60,65	0.0	0.0	0.0	0,0,0
267	0.09	0.10	0.05	60,60,65	0.0	0.0	0.0	0,0,0
268	0.09	0.11	0.04	60,60,65	0.0	0.0	0.0	0,0,0
269	0.09	0.12	0.04	60,60,65	0.0	0.0	0.0	0,0,0
270	0.12	0.14	0.07	58,58,65	0.0	0.0	0.0	0,0,0
271	0.08	0.07	0.07	60,60,65	0.0	0.0	0.0	0,0,0
272	0.12	0.14	0.07	58,58,65	0.0	0.0	0.0	0,0,0
273	0.06	0.06	0.07	60,60,65	0.0	0.0	0.0	0,0,0
274	0.10	0.10	0.14	61,61,65	0.0	0.0	0.0	0,0,0
275	0.07	0.06	0.02	58,58,65	0.0	0.0	0.0	0,0,0
276	0.05	0.06	0.04	60,60,65	0.0	0.0	0.0	0,0,0
277	0.02	0.02	0.02	60,60,65	0.0	0.0	0.0	0,0,0
278	0.02	0.02	0.02	60,60,65	0.0	0.0	0.0	0,0,0
279	0.05	0.06	0.05	60,60,65	0.0	0.0	0.0	0,0,0
280	0.09	0.08	0.10	61,61,65	0.0	0.0	0.0	0,0,0
281	0.07	0.08	0.04	61,61,65	0.0	0.0	0.0	0,0,0
282	0.06	0.04	0.04	61,61,65	0.0	0.0	0.0	0,0,0
283	0.05	0.04	0.05	61,61,65	0.0	0.0	0.0	0,0,0
284	0.08	0.08	0.05	61,61,65	0.0	0.0	0.0	0,0,0
285	0.06	0.05	0.05	61,61,65	0.0	0.0	0.0	0,0,0
286	0.08	0.09	0.06	61,61,65	0.0	0.0	0.0	0,0,0

287	0.08	0.09	0.06	61,61,65	0.0	0.0	0.0	0,0,0
288	0.08	0.09	0.05	61,61,65	0.0	0.0	0.0	0,0,0
289	0.07	0.07	0.05	61,61,65	0.0	0.0	0.0	0,0,0
290	0.09	0.09	0.12	61,61,65	0.0	0.0	0.0	0,0,0
291	0.06	0.06	0.04	61,61,65	0.0	0.0	0.0	0,0,0
292	0.09	0.09	0.07	61,61,65	0.0	0.0	0.0	0,0,0
293	0.09	0.16	0.08	61,61,65	0.0	0.0	0.0	0,0,0
294	0.10	0.11	0.08	61,61,65	0.0	0.0	0.0	0,0,0
295	0.07	0.07	0.08	61,61,65	0.0	0.0	0.0	0,0,0
296	0.08	0.06	0.09	58,58,65	0.0	0.0	0.0	0,0,0
297	0.07	0.06	0.09	58,58,65	0.0	0.0	0.0	0,0,0
298	0.08	0.06	0.09	58,58,65	0.0	0.0	0.0	0,0,0
299	0.08	0.08	0.08	61,61,65	0.0	0.0	0.0	0,0,0
300	0.07	0.07	0.05	61,61,65	0.0	0.0	0.0	0,0,0
301	0.06	0.04	0.07	61,58,65	0.0	0.0	0.0	0,0,0
302	0.06	0.04	0.08	61,61,65	0.0	0.0	0.0	0,0,0
303	0.07	0.04	0.08	61,61,65	0.0	0.0	0.0	0,0,0
304	0.07	0.05	0.09	61,61,65	0.0	0.0	0.0	0,0,0
305	0.07	0.05	0.09	61,61,65	0.0	0.0	0.0	0,0,0
306	0.08	0.05	0.09	61,61,65	0.0	0.0	0.0	0,0,0
307	0.08	0.06	0.05	58,58,65	0.0	0.0	0.0	0,0,0
308	0.07	0.06	0.05	58,58,65	0.0	0.0	0.0	0,0,0
309	0.07	0.05	0.06	58,58,65	0.0	0.0	0.0	0,0,0
310	0.07	0.05	0.06	58,58,65	0.0	0.0	0.0	0,0,0
311	0.07	0.04	0.07	58,58,65	0.0	0.0	0.0	0,0,0
312	0.07	0.04	0.07	58,58,65	0.0	0.0	0.0	0,0,0
313	0.09	0.08	0.07	58,58,65	0.0	0.0	0.0	0,0,0
314	0.09	0.07	0.08	58,58,65	0.0	0.0	0.0	0,0,0
315	0.08	0.07	0.08	58,58,65	0.0	0.0	0.0	0,0,0
316	0.08	0.06	0.09	58,58,65	0.0	0.0	0.0	0,0,0
317	0.08	0.06	0.09	58,58,65	0.0	0.0	0.0	0,0,0
318	0.08	0.05	0.10	58,58,65	0.0	0.0	0.0	0,0,0
319	0.02	0.02	0.02	60,60,65	0.0	0.0	0.0	0,0,0
320	0.02	0.02	0.02	60,60,65	0.0	0.0	0.0	0,0,0
321	0.02	0.01	0.02	60,60,65	0.0	0.0	0.0	0,0,0
322	0.02	0.01	0.02	60,60,65	0.0	0.0	0.0	0,0,0
323	0.02	0.01	0.02	61,61,65	0.0	0.0	0.0	0,0,0
324	0.02	0.01	0.02	61,61,65	0.0	0.0	0.0	0,0,0
325	0.02	0.01	0.02	61,61,65	0.0	0.0	0.0	0,0,0
326	0.02	0.01	0.02	61,61,65	0.0	0.0	0.0	0,0,0
327	0.02	0.01	0.02	61,61,65	0.0	0.0	0.0	0,0,0
328	0.02	0.01	0.02	60,60,65	0.0	0.0	0.0	0,0,0
329	0.02	0.01	0.02	60,60,65	0.0	0.0	0.0	0,0,0
330	0.02	0.01	0.03	60,60,65	0.0	0.0	0.0	0,0,0
331	0.06	0.04	0.05	61,61,65	0.0	0.0	0.0	0,0,0
332	0.04	0.02	0.04	61,61,65	0.0	0.0	0.0	0,0,0
333	0.03	0.02	0.03	61,61,65	0.0	0.0	0.0	0,0,0
334	0.03	0.02	0.03	61,61,65	0.0	0.0	0.0	0,0,0
335	0.03	0.02	0.03	61,61,65	0.0	0.0	0.0	0,0,0
336	0.03	0.02	0.03	61,61,65	0.0	0.0	0.0	0,0,0
337	0.06	0.10	0.07	58,61,65	0.0	0.0	0.0	0,0,0
338	0.06	0.04	0.07	58,58,65	0.0	0.0	0.0	0,0,0
339	0.07	0.04	0.07	58,58,65	0.0	0.0	0.0	0,0,0

<b>Guscio</b>	<b>rRfck</b>	<b>rRfyk</b>	<b>rPfck</b>	<b>wR</b>	<b>wF</b>	<b>wP</b>
	0.20	0.28	0.16	0.0	0.0	0.0