COMUNE DI TROIA

PROVINCIA DI FOGGIA

COMUNE DI ORSARA DI PUGLIA

PROVINCIA DI FOGGIA

Progetto per la costruzione di un impianto di produzione di energia elettrica da fonte eolica di 6 aerogeneratori con potenza di 36 MW e opere di connessione alla RTN, sito nei comuni di Troia (FG) e Orsara di Puglia (FG), in località "Cancarro"

PROGETTO DEFINITIVO

Calcoli preliminari delle strutture - Cabina di raccolta

COD. ID.				
Livello prog.	Tipo documentazione	N. elaborato	Data	Scala
PD	Definitiva	4.2.11.1.2	07/2022	

Nome file	

REVISIONI

REV.	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO
00	LUGLIO 2022	PRIMA EMISSIONE		MAGNOTTA	MAGNOTTA

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Documento firmato da:
MAGNOTTA MASSIMO
31.08.2022 15:34:15 UTC

RELAZIONE DI CALCOLO PRELIMINARE DELLE STRUTTURE

INDICE

1. INFORMAZIONI INTRODUTTIVE

1.1. PREMESSA

La società Italgen S.p.A. con sede legale in Via Kennedy, 37 a Villa Di Serio (BG), è promotrice del progetto per la costruzione di un impianto di produzione di energia elettrica da fonte eolica con potenza complessiva di 36 MW ubicato nel Comune di Troia, in provincia di Foggia.
Oggetto della presente relazione è la progettazione preliminare delle strutture relative all'impianto, in particolare della cabina di raccolta che accoglierà le tre linee elettriche MT provenienti dalle WTG e dalla quale uscirà la linea MT a 36 kV diretta al futuro ampliamento della Stazione Elettrica di connessione di Troia.

1.2. RIFERIMENTI TECNICI

Nel presente progetto strutturale viene fatto esplicito riferimento alle seguenti Normative:

- Verifiche strutturali e geotecniche:
  - D.M. 17/01/2018 – Aggiornamento delle "Norme tecniche per le costruzioni" (nel seguito "NTC 2018");
  - Circolare N° 617 del 02/02/2009 – Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. 14/01/08.
- Durabilità materiali:
  - UNI EN 206-1, 2006 - Calcestruzzo - Specificazione, prestazione, produzione e conformità;
  - UNI EN 197-1, 2001 - Cemento - Composizione, specifiche e criteri di conformità;
  - UNI EN 11104, 2004 - Calcestruzzo - Specificazione, prestazione, produzione e conformità. Istruzioni complementari per l'applicazione della EN 206-1;
  - UNI EN 1992-1-1 - Eurocodice 2. Progettazione delle strutture di calcestruzzo. Parte 1-1: Regole generali e regole per gli edifici.
- Stratigrafia, parametri geotecnici e geofisici del terreno di fondazione:
  - Carta geologica d'Italia;
  - "Relazione geologica" del gennaio 2020 a firma del dott. geol. Rocco Porsia.
  - "Nota integrativa alla relazione geologica" del marzo 2020 a firma del dott. geol. Rocco Porsia.

1.3. METODO DI VERIFICA DELLA SICUREZZA

La sicurezza sarà valutata col metodo semiprobabilistico agli stati limite basato sull'impiego dei coefficienti parziali di sicurezza. Tale metodo consiste nello svolgimento dei seguenti passaggi.

1.3.1. Sicurezza strutturale

- Si valutano i parametri descrittivi delle prestazioni attese, della tipologia strutturale e della macrozonazione e microzonazione dell'opera necessari alla definizione dei carichi di progetto da applicare alla stessa;
- Si valutano le resistenze caratteristiche X_k dei materiali strutturali, caratterizzati da $prob(X < X_k) = 0.05$ e le relative resistenze di calcolo X_d ottenute riducendo le prime con opportuni coefficienti di sicurezza $X_d = \frac{\eta X_k}{\gamma_M}$.
- Si valutano le azioni caratteristiche F_k , caratterizzate da $prob(F > F_k) = 0.05$, in funzione di macrozonazione, microzonazione e tipologia strutturale, per ciascun caso di carico significativo.

- Amplificando le azioni caratteristiche con opportuni coefficienti di sicurezza $\gamma_F \geq 1$ e $\psi_F \leq 1$, si determinano le azioni di calcolo per ciascuna combinazione di carico strutturale significativa:

$$F_d = \gamma_F \psi_F F_k$$

- Utilizzando un modello strutturale (di dimensioni a_d e materiali X_d) validato dai metodi della Scienza delle Costruzioni, si determinano gli effetti $E_d = E(F_d, a_d)$ delle azioni di calcolo F_d scegliendo opportunamente metodi di analisi e modellazione strutturale correlati alle tipologie di azione e struttura.
  Le dimensioni a_d e i materiali X_d della struttura sono accettabili se, per ciascuno stato limite strutturale significativo *R*, le relative azioni di calcolo F_d provochino effetti E_d inferiori alle resistenze di calcolo $R_d = \frac{R_k}{\gamma_R}$ $(\gamma_R \geq 1)$:

$$E_d = E(\gamma_F \psi_F F_k, a_d) \leq R_d = \frac{1}{\gamma_R} \cdot R\left(\eta \frac{X_k}{\gamma_M}, a_d\right).$$

  Nella precedente relazione si considerano le combinazioni di carico strutturali relative all'approccio 2 che prevede l'uso dei seguenti coefficienti parziali:
  stati limite SLE: γ_F = 1.00
  stati limite SLU tipo STR: γ_F = A1 ; γ_m = M1 ; γ_R = R1
  stati limite SLU tipo EQU (equilibrio): γ_F = EQU ; γ_m = M2 ; γ_R = R1
  stati limite SLU tipo FAT: γ_F = 1.00 per i carichi permanenti ; γ_m = 1.00

1.3.2. Sicurezza geotecnica

- Si descrivono i risultati delle indagini in sito e in laboratorio sul terreno di fondazione eseguiti in numero e profondità commisurate, rispettivamente, alla variabilità del terreno e all'estensione dell'opera; si valuta inoltre la stabilità dei versanti anche in funzione della morfologia del suolo e al regime delle acque;

- Dagli elaborati di "Relazione geologica" e "Relazione geotecnica" si attingono i valori delle resistenze caratteristiche X_k dei terreni di fondazione, caratterizzate da $prob(X < X_k) = 0.05$ e le relative resistenze di calcolo X_d ottenute riducendo le prime con opportuni coefficienti riduttori $\eta \leq 1$ (letteratura tecnica) e di sicurezza $\gamma_M \geq 1$:

$$X_d = \frac{\eta X_k}{\gamma_M}$$

- Si determinano le azioni di calcolo $F_d = \gamma_F \psi_F F_k$ per ciascuna combinazione di carico geotecnica significativa ($\gamma_F \leq 1$ $\gamma_F \geq 1$).

- Utilizzando un modello geotecnico (di dimensioni a_d e materiali X_d) validato dai metodi della Geotecnica, si determinano gli effetti $E_d = E(F_d, a_d)$ delle azioni di calcolo F_d scegliendo opportunamente metodi di analisi e modellazione strutturale correlati alle tipologie di azione e di terreno.
  Le dimensioni a_d e i materiali X_d della struttura sono accettabili se, per ciascuno stato limite geotecnico significativo *R*, le relative azioni di calcolo F_d provochino effetti E_d inferiori alle resistenze di calcolo $R_d = \frac{R_k}{\gamma_R}$ $(\gamma_R \geq 1)$:

$$E_d = E(\gamma_F \psi_F F_k, a_d) \leq R_d = \frac{1}{\gamma_R} \cdot R\left(\eta \frac{X_k}{\gamma_M}, a_d\right).$$

2. DESCRIZIONE DELL'OPERA

3. VERIFICA DEL BASAMENTO DELLA CABINA DI CONSEGNA

L'intervento consiste dell'installazione di una cabina di raccolta.
Il manufatto prefabbricato in c.a. sarà fornito dal produttore che ha depositato presso il Servizio Tecnico Centrale del Consiglio Superiore dei Lavori Pubblici la documentazione inerente il possesso dei requisiti richiesti dal p.to 11.8.4 delle Norme Tecniche di cui al D.M. 17/01/2018 in relazione al processo produttivo ed al controllo di produzione in stabilimento.
Di seguito si riporta la verifica strutturale della platea di fondazione in c.a. sulla quale sarà posizionata la cabina in c.a.v. con relativo basamento. Tale platea in c.a. ha spessore pari a 15 cm.

3.1. MATERIALI

Per la platea in c.a. si prescrive calcestruzzo in classe di resistenza C25/30, cl. di esposiz. XC2, e acciaio B450C aventi le seguenti caratteristiche.

Calcestruzzo:

Classe di resistenza			C25/30
Resistenza caratteristica a compressione cubica	R_{ck}	[N/mm²]	30.00
Resistenza caratteristica a compressione cilindrica	$f_{ck} = 0.83\ R_{ck}$	[N/mm²]	24.90
Resistenza media a compressione cilindrica	$f_{cm} = f_{ck} + 8$	[N/mm²]	32.90
Coefficiente effetti di lungo termine	α_{cc}	[-]	0,85
Coeff. di sicurezza parziale	γ_c	[-]	1,50
Resistenza di calcolo a compressione	$f_{cd} = \alpha_{cc}\ f_{ck} / \gamma_c$	[N/mm²]	14.11
Resist. di calcolo a compr. elementi piani s < 5 cm	$f_{cd}^* = 0.80\ \alpha_{cc}\ f_{ck} / \gamma_c$	[N/mm²]	11.29
Resistenza media a trazione semplice	$f_{ctm} = 0.30\ f_{ck}^{2/3}$	[N/mm²]	2,56
Resistenza caratteristica a trazione	$f_{ctk} = 0.70\ f_{ctm}$	[N/mm²]	1,79
Resistenza di calcolo a trazione	$f_{ctd} = f_{ctk} / \gamma_c$	[N/mm²]	1,19
Resist. di calcolo a trazione elementi piani s < 5 cm	$f_{ctd}^* = 0.80\ f_{ctd}$	[N/mm²]	1,19
Resistenza media a trazione per flessione	$f_{cfm} = 1.2\ f_{ctm}$	[N/mm²]	3,07
Modulo elastico	$E_{cm} = 22000(f_{cm}/10)^{0.3}$	[N/mm²]	31447
Coefficiente di Poisson	v	[-]	0,2
Coefficiente di dilatazione termica	α_T	[°C^{-1}]	0,00001
Coefficiente di viscosità	φ	[-]	1,70
Accorciamento ε_{c2}	ε_{c2}	[-]	0,00200
Accorciamento ε_{c3}	ε_{c3}	[-]	0,00175
Accorciamento ε_{c4}	ε_{c4}	[-]	0,00070
Accorciamento ε_{cu}	ε_{cu}	[-]	0,00350
Densità di massa	ρ	[kg/m³]	240
Densità di peso	γ	[kN/m³]	24

Acciaio:

Classe di resistenza			B450C
Resistenza caratteristica a trazione	f_{tk}	[N/mm²]	540.00
Resistenza caratteristica a snervamento	f_{yk}	[N/mm²]	450.00

Rapporto di sovraresistenza	$k = f_{tk} / f_{yk}$	[-]	1.20
Allungamento uniforme al carico massimo	ε_{uk}	[-]	0.07500
Modulo elastico	E_s	[N/mm^2]	200000
Coefficiente di sicurezza parziale	γ_s	[-]	1.15
Resistenza di calcolo a snervamento	$f_{yd} = f_{yk} / \gamma_s$	[N/mm^2]	391.30
Resistenza di calcolo a rottura	$k\ f_{yd}$	[N/mm^2]	469.57
Allungamento di calcolo a snervamento	$\varepsilon_{yd} = f_{yd} / E_s$	[-]	0.00196
Allungamento di calcolo a rottura	$\varepsilon_{ud} = 0.9\ \varepsilon_{uk}$	[-]	0.06750
Densità di massa	ρ	[kg/m^3]	785.00
Densità di peso	γ	[kN/m^3]	78.50

3.2. AZIONI

I carichi utilizzati per la progettazione di che trattasi sono i seguenti:

Tipo	**Carico di pressione uniforme su piastra**		
Id	**Tipo**	**Pressione**	**Note**
		daN/cm^2	
1	G1	0.30	Permanenti strutturali
2	G2	0.45	Permanenti non strutturali
3	Qn	8.00e-03	Variabile neve

I casi di carichi previsti per la progettazione di che trattasi sono i seguenti:

CDC	**Tipo**	**Sigla Id**	**Note**
1	Gk	G1 permanente strutturale	Azioni applicate:
			D3 :da 1 a 95 Azione : G1
2	Gk	G2 perman. non struttur.	Azioni applicate:
			D3 :da 1 a 95 Azione : G2
3	Qk	Qn carico variab. neve	Azioni applicate:
			D3 :da 1 a 95 Azione : Qn

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

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

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

Combinazione fondamentale *SLU*

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

Combinazione caratteristica *(rara) SLE*

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

Combinazione frequente *SLE*

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

Combinazione quasi permanente *SLE*

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

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

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

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

$$G_1 + G_2 + A_d + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	***ψ0***	***ψ1***	***ψ2***
Categoria A residenziali	*0,70*	*0,50*	*0,30*
Categoria B uffici	*0,70*	*0,50*	*0,30*
Categoria C ambienti suscettibili di affollamento	*0,70*	*0,70*	*0,60*
Categoria D ambienti ad uso commerciale	*0,70*	*0,70*	*0,60*
Categoria E biblioteche, archivi, magazzini,…	*1,00*	*0,90*	*0,80*
Categoria F Rimesse e parcheggi (autoveicoli <= 30kN)	*0,70*	*0,70*	*0,60*
Categoria G Rimesse e parcheggi (autoveicoli > 30kN)	*0,70*	*0,50*	*0,30*
Categoria H Coperture	*0,00*	*0,00*	*0,00*
Vento	*0,60*	*0,20*	*0,00*
Neve a quota <= 1000 m	*0,50*	*0,20*	*0,00*
Neve a quota > 1000 m	*0,70*	*0,50*	*0,20*
Variazioni Termiche	*0,60*	*0,50*	*0,00*

NTC 2018 Tabella 2.6.I

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

Cmb	Tipo	Sigla Id
1	SLU	Comb. SLU
2	SLE(r)	Comb. SLE(rara)
3	SLE(f)	Comb. SLE(freq.)
4	SLE(p)	Comb. SLE(perm.)

Cmb	CDC 1	CDC 2	CDC 3
1	1.30	1.50	1.50
2	1.00	1.00	1.00
3	1.00	1.00	0.20
4	1.00	1.00	0.00

3.3. RISULTATI DELLE ANALISI

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

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

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

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

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm2	daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	2	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	3	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	4	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	3	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	4	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3	4	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	2	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	3	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	2	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	3	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	4	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	2	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	3	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	4	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1	8	1.09e-05	0.0	0.0	0.0	0.0	0.0	4.70e-04	1.99e-04	3.52e-04	3.17e-04	1.34e-04
		9	3.01e-05	0.0	0.0	0.0	0.0	0.0	9.70e-04	-2.67e-04	8.99e-04	-1.96e-04	-2.87e-04
		30	4.80e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.57e-03	1.74e-03	1.79e-03	-1.99e-04
		29	3.07e-05	0.0	0.0	0.0	0.0	0.0	9.98e-04	-2.63e-04	-2.09e-04	9.44e-04	-2.53e-04
7	2	8	7.66e-06	0.0	0.0	0.0	0.0	0.0	3.30e-04	1.41e-04	2.48e-04	2.23e-04	9.42e-05
		9	2.11e-05	0.0	0.0	0.0	0.0	0.0	6.82e-04	-1.88e-04	6.32e-04	-1.38e-04	-2.02e-04
		30	3.38e-05	0.0	0.0	0.0	0.0	0.0	1.38e-03	1.10e-03	1.22e-03	1.26e-03	-1.40e-04
		29	2.16e-05	0.0	0.0	0.0	0.0	0.0	7.02e-04	-1.85e-04	-1.47e-04	6.64e-04	-1.78e-04
7	3	8	7.60e-06	0.0	0.0	0.0	0.0	0.0	3.28e-04	1.39e-04	2.46e-04	2.21e-04	9.34e-05
		9	2.10e-05	0.0	0.0	0.0	0.0	0.0	6.76e-04	-1.86e-04	6.27e-04	-1.36e-04	-2.01e-04
		30	3.35e-05	0.0	0.0	0.0	0.0	0.0	1.37e-03	1.09e-03	1.21e-03	1.25e-03	-1.39e-04
		29	2.14e-05	0.0	0.0	0.0	0.0	0.0	6.96e-04	-1.83e-04	-1.46e-04	6.59e-04	-1.77e-04
7	4	8	7.58e-06	0.0	0.0	0.0	0.0	0.0	3.27e-04	1.39e-04	2.45e-04	2.21e-04	9.32e-05
		9	2.09e-05	0.0	0.0	0.0	0.0	0.0	6.75e-04	-1.86e-04	6.26e-04	-1.36e-04	-2.00e-04
		30	3.34e-05	0.0	0.0	0.0	0.0	0.0	1.37e-03	1.09e-03	1.21e-03	1.25e-03	-1.38e-04
		29	2.14e-05	0.0	0.0	0.0	0.0	0.0	6.94e-04	-1.83e-04	-1.46e-04	6.57e-04	-1.77e-04
8	1	9	3.20e-05	0.0	0.0	0.0	0.0	0.0	1.18e-03	-3.38e-05	1.18e-03	-3.38e-05	-4.72e-06

		10	4.99e-05	0.0	0.0	0.0	0.0	0.0	1.85e-03	-3.98e-05	1.84e-03	-2.75e-05	-1.52e-04
		31	5.65e-05	0.0	0.0	0.0	0.0	0.0	2.32e-03	1.82e-03	2.30e-03	1.84e-03	-1.01e-04
		30	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.39e-03	1.53e-03	1.66e-03	-1.89e-04
8	2	9	2.25e-05	0.0	0.0	0.0	0.0	0.0	8.32e-04	-2.38e-05	8.32e-04	-2.38e-05	-3.55e-06
		10	3.51e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	-2.80e-05	1.29e-03	-1.94e-05	-1.07e-04
		31	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.28e-03	1.62e-03	1.30e-03	-7.09e-05
		30	3.05e-05	0.0	0.0	0.0	0.0	0.0	1.26e-03	9.78e-04	1.07e-03	1.16e-03	-1.33e-04
8	3	9	2.23e-05	0.0	0.0	0.0	0.0	0.0	8.25e-04	-2.36e-05	8.25e-04	-2.36e-05	-3.51e-06
		10	3.48e-05	0.0	0.0	0.0	0.0	0.0	1.29e-03	-2.78e-05	1.28e-03	-1.92e-05	-1.06e-04
		31	3.94e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.27e-03	1.61e-03	1.28e-03	-7.03e-05
		30	3.03e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	9.70e-04	1.06e-03	1.15e-03	-1.32e-04
8	4	9	2.23e-05	0.0	0.0	0.0	0.0	0.0	8.23e-04	-2.35e-05	8.23e-04	-2.35e-05	-3.50e-06
		10	3.47e-05	0.0	0.0	0.0	0.0	0.0	1.29e-03	-2.77e-05	1.28e-03	-1.92e-05	-1.06e-04
		31	3.93e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.27e-03	1.60e-03	1.28e-03	-7.01e-05
		30	3.02e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	9.68e-04	1.06e-03	1.15e-03	-1.32e-04
9	1	10	5.04e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	-3.95e-05	1.87e-03	-3.87e-05	3.78e-05
		11	5.70e-05	0.0	0.0	0.0	0.0	0.0	2.13e-03	-1.61e-05	2.12e-03	-6.19e-06	-1.46e-04
		32	6.09e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.89e-03	2.53e-03	1.90e-03	-3.80e-05
		31	5.62e-05	0.0	0.0	0.0	0.0	0.0	2.32e-03	1.81e-03	2.28e-03	1.84e-03	-1.20e-04
9	2	10	3.54e-05	0.0	0.0	0.0	0.0	0.0	1.31e-03	-2.78e-05	1.31e-03	-2.73e-05	2.64e-05
		11	4.01e-05	0.0	0.0	0.0	0.0	0.0	1.50e-03	-1.13e-05	1.49e-03	-4.33e-06	-1.03e-04
		32	4.28e-05	0.0	0.0	0.0	0.0	0.0	1.78e-03	1.33e-03	1.78e-03	1.33e-03	-2.69e-05
		31	3.95e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.27e-03	1.61e-03	1.30e-03	-8.48e-05
9	3	10	3.51e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	-2.75e-05	1.30e-03	-2.70e-05	2.62e-05
		11	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-1.13e-05	1.48e-03	-4.30e-06	-1.02e-04
		32	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.77e-03	1.32e-03	-2.66e-05
		31	3.92e-05	0.0	0.0	0.0	0.0	0.0	1.61e-03	1.26e-03	1.59e-03	1.29e-03	-8.41e-05
9	4	10	3.50e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	-2.75e-05	1.30e-03	-2.70e-05	2.61e-05
		11	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.48e-03	-1.12e-05	1.48e-03	-4.29e-06	-1.02e-04
		32	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.32e-03	1.76e-03	1.32e-03	-2.66e-05
		31	3.91e-05	0.0	0.0	0.0	0.0	0.0	1.61e-03	1.26e-03	1.59e-03	1.28e-03	-8.39e-05
10	1	11	5.70e-05	0.0	0.0	0.0	0.0	0.0	2.13e-03	-2.41e-05	2.12e-03	-2.22e-05	6.48e-05
		12	5.72e-05	0.0	0.0	0.0	0.0	0.0	2.14e-03	-5.67e-06	2.13e-03	3.50e-06	-1.40e-04
		33	6.11e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.91e-03	2.54e-03	1.91e-03	-3.00e-06
		32	6.11e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.90e-03	2.53e-03	1.91e-03	-7.83e-05
10	2	11	4.00e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-1.69e-05	1.49e-03	-1.56e-05	4.54e-05
		12	4.02e-05	0.0	0.0	0.0	0.0	0.0	1.51e-03	-3.98e-06	1.50e-03	2.50e-06	-9.87e-05
		33	4.30e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.35e-03	1.79e-03	1.35e-03	-2.25e-06
		32	4.29e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.33e-03	1.78e-03	1.34e-03	-5.52e-05
10	3	11	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.48e-03	-1.68e-05	1.48e-03	-1.55e-05	4.50e-05
		12	3.99e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-3.95e-06	1.49e-03	2.47e-06	-9.78e-05
		33	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	-2.21e-06
		32	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.77e-03	1.33e-03	-5.47e-05
10	4	11	3.96e-05	0.0	0.0	0.0	0.0	0.0	1.48e-03	-1.68e-05	1.48e-03	-1.54e-05	4.50e-05
		12	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-3.94e-06	1.48e-03	2.46e-06	-9.76e-05
		33	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	-2.20e-06
		32	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.76e-03	1.33e-03	-5.46e-05
11	1	12	5.71e-05	0.0	0.0	0.0	0.0	0.0	2.14e-03	-1.12e-05	2.13e-03	-7.68e-06	8.66e-05
		13	5.57e-05	0.0	0.0	0.0	0.0	0.0	2.09e-03	1.17e-06	2.08e-03	8.44e-06	-1.23e-04
		34	6.02e-05	0.0	0.0	0.0	0.0	0.0	2.49e-03	1.91e-03	2.49e-03	1.91e-03	2.37e-05
		33	6.12e-05	0.0	0.0	0.0	0.0	0.0	2.55e-03	1.92e-03	2.54e-03	1.92e-03	-5.22e-05
11	2	12	4.01e-05	0.0	0.0	0.0	0.0	0.0	1.50e-03	-7.84e-06	1.50e-03	-5.38e-06	6.08e-05
		13	3.91e-05	0.0	0.0	0.0	0.0	0.0	1.47e-03	0.0	1.46e-03	5.99e-06	-8.66e-05
		34	4.23e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	1.34e-03	1.75e-03	1.34e-03	1.66e-05
		33	4.30e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.35e-03	1.79e-03	1.35e-03	-3.69e-05
11	3	12	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-7.77e-06	1.49e-03	-5.34e-06	6.03e-05
		13	3.88e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	0.0	1.45e-03	5.93e-06	-8.59e-05
		34	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	1.64e-05
		33	4.27e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.34e-03	1.77e-03	1.34e-03	-3.66e-05
11	4	12	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-7.76e-06	1.48e-03	-5.33e-06	6.02e-05
		13	3.87e-05	0.0	0.0	0.0	0.0	0.0	1.45e-03	0.0	1.45e-03	5.92e-06	-8.57e-05
		34	4.19e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	1.33e-03	1.73e-03	1.33e-03	1.64e-05
		33	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.34e-03	-3.65e-05
12	1	13	5.57e-05	0.0	0.0	0.0	0.0	0.0	2.09e-03	-3.75e-06	2.08e-03	2.33e-06	1.13e-04
		14	5.58e-05	0.0	0.0	0.0	0.0	0.0	2.09e-03	4.88e-06	2.09e-03	9.32e-06	-9.62e-05
		35	6.04e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	1.90e-03	2.50e-03	1.91e-03	4.87e-05
		34	6.03e-05	0.0	0.0	0.0	0.0	0.0	2.49e-03	1.91e-03	2.49e-03	1.92e-03	-2.94e-05
12	2	13	3.92e-05	0.0	0.0	0.0	0.0	0.0	1.47e-03	-2.59e-06	1.46e-03	1.68e-06	7.91e-05
		14	3.92e-05	0.0	0.0	0.0	0.0	0.0	1.47e-03	3.47e-06	1.47e-03	6.61e-06	-6.78e-05

		35	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.34e-03	1.76e-03	1.34e-03	3.41e-05
		34	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	1.35e-03	1.75e-03	1.35e-03	-2.08e-05
12	3	13	3.88e-05	0.0	0.0	0.0	0.0	0.0	1.45e-03	-2.58e-06	1.45e-03	1.66e-06	7.85e-05
		14	3.89e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	3.44e-06	1.46e-03	6.55e-06	-6.72e-05
		35	4.21e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	3.38e-05
		34	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.34e-03	1.74e-03	1.34e-03	-2.06e-05
12	4	13	3.88e-05	0.0	0.0	0.0	0.0	0.0	1.45e-03	-2.57e-06	1.45e-03	1.65e-06	7.83e-05
		14	3.88e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	3.43e-06	1.45e-03	6.53e-06	-6.71e-05
		35	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	3.38e-05
		34	4.19e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	1.33e-03	1.73e-03	1.33e-03	-2.06e-05
13	1	14	5.59e-05	0.0	0.0	0.0	0.0	0.0	2.09e-03	-6.35e-06	2.08e-03	3.59e-06	1.44e-04
		15	5.89e-05	0.0	0.0	0.0	0.0	0.0	2.22e-03	1.36e-05	2.21e-03	1.58e-05	-7.00e-05
		36	6.22e-05	0.0	0.0	0.0	0.0	0.0	2.61e-03	1.89e-03	2.60e-03	1.90e-03	7.00e-05
		35	6.04e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	1.91e-03	2.50e-03	1.91e-03	-4.65e-06
13	2	14	3.93e-05	0.0	0.0	0.0	0.0	0.0	1.47e-03	-4.24e-06	1.47e-03	2.74e-06	1.01e-04
		15	4.15e-05	0.0	0.0	0.0	0.0	0.0	1.56e-03	9.24e-06	1.56e-03	1.08e-05	-4.93e-05
		36	4.38e-05	0.0	0.0	0.0	0.0	0.0	1.84e-03	1.33e-03	1.83e-03	1.34e-03	4.90e-05
		35	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.35e-03	1.76e-03	1.35e-03	-3.54e-06
13	3	14	3.90e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	-4.24e-06	1.45e-03	2.69e-06	1.00e-04
		15	4.11e-05	0.0	0.0	0.0	0.0	0.0	1.55e-03	9.21e-06	1.54e-03	1.08e-05	-4.89e-05
		36	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.32e-03	1.82e-03	1.32e-03	4.86e-05
		35	4.21e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-3.47e-06
13	4	14	3.89e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	-4.24e-06	1.45e-03	2.67e-06	1.00e-04
		15	4.10e-05	0.0	0.0	0.0	0.0	0.0	1.54e-03	9.20e-06	1.54e-03	1.08e-05	-4.88e-05
		36	4.33e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.32e-03	1.81e-03	1.32e-03	4.85e-05
		35	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-3.45e-06
14	1	15	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	7.91e-06	2.22e-03	2.10e-05	1.70e-04
		16	6.68e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	-1.18e-05	2.50e-03	-1.08e-05	-4.86e-05
		37	6.85e-05	0.0	0.0	0.0	0.0	0.0	2.92e-03	1.93e-03	2.91e-03	1.94e-03	7.51e-05
		36	6.21e-05	0.0	0.0	0.0	0.0	0.0	2.60e-03	1.89e-03	2.60e-03	1.89e-03	7.99e-06
14	2	15	4.17e-05	0.0	0.0	0.0	0.0	0.0	1.57e-03	5.21e-06	1.56e-03	1.44e-05	1.20e-04
		16	4.70e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	-7.97e-06	1.76e-03	-7.31e-06	-3.42e-05
		37	4.82e-05	0.0	0.0	0.0	0.0	0.0	2.05e-03	1.36e-03	2.05e-03	1.36e-03	5.29e-05
		36	4.37e-05	0.0	0.0	0.0	0.0	0.0	1.83e-03	1.33e-03	1.83e-03	1.33e-03	5.65e-06
14	3	15	4.14e-05	0.0	0.0	0.0	0.0	0.0	1.55e-03	5.22e-06	1.55e-03	1.43e-05	1.19e-04
		16	4.66e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	-7.95e-06	1.74e-03	-7.29e-06	-3.39e-05
		37	4.78e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.35e-03	2.03e-03	1.35e-03	5.25e-05
		36	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.32e-03	1.81e-03	1.32e-03	5.60e-06
14	4	15	4.13e-05	0.0	0.0	0.0	0.0	0.0	1.55e-03	5.22e-06	1.54e-03	1.43e-05	1.18e-04
		16	4.65e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	-7.95e-06	1.74e-03	-7.29e-06	-3.39e-05
		37	4.77e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.34e-03	2.02e-03	1.35e-03	5.24e-05
		36	4.33e-05	0.0	0.0	0.0	0.0	0.0	1.81e-03	1.32e-03	1.81e-03	1.32e-03	5.59e-06
15	1	16	6.73e-05	0.0	0.0	0.0	0.0	0.0	2.52e-03	-7.68e-06	2.51e-03	5.44e-06	1.82e-04
		17	7.43e-05	0.0	0.0	0.0	0.0	0.0	2.78e-03	-2.22e-05	2.78e-03	-2.17e-05	-3.74e-05
		38	7.40e-05	0.0	0.0	0.0	0.0	0.0	3.18e-03	1.94e-03	3.17e-03	1.95e-03	8.47e-05
		37	6.83e-05	0.0	0.0	0.0	0.0	0.0	2.91e-03	1.93e-03	2.91e-03	1.93e-03	2.70e-05
15	2	16	4.73e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	-5.33e-06	1.76e-03	3.91e-06	1.28e-04
		17	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	-1.55e-05	1.95e-03	-1.51e-05	-2.65e-05
		38	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	1.37e-03	2.23e-03	1.37e-03	5.95e-05
		37	4.80e-05	0.0	0.0	0.0	0.0	0.0	2.04e-03	1.35e-03	2.04e-03	1.36e-03	1.89e-05
15	3	16	4.69e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	-5.30e-06	1.75e-03	3.86e-06	1.27e-04
		17	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.94e-03	-1.54e-05	1.94e-03	-1.50e-05	-2.62e-05
		38	5.16e-05	0.0	0.0	0.0	0.0	0.0	2.22e-03	1.35e-03	2.21e-03	1.36e-03	5.90e-05
		37	4.76e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.34e-03	2.03e-03	1.34e-03	1.88e-05
15	4	16	4.68e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	-5.29e-06	1.74e-03	3.85e-06	1.26e-04
		17	5.17e-05	0.0	0.0	0.0	0.0	0.0	1.93e-03	-1.53e-05	1.93e-03	-1.50e-05	-2.62e-05
		38	5.15e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.36e-03	5.89e-05
		37	4.75e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.34e-03	2.02e-03	1.34e-03	1.88e-05
16	1	17	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.78e-03	-2.04e-05	2.77e-03	-9.13e-06	1.77e-04
		18	7.59e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	-3.19e-05	2.83e-03	-3.12e-05	-4.30e-05
		39	7.46e-05	0.0	0.0	0.0	0.0	0.0	3.21e-03	1.91e-03	3.20e-03	1.92e-03	9.15e-05
		38	7.39e-05	0.0	0.0	0.0	0.0	0.0	3.18e-03	1.94e-03	3.17e-03	1.94e-03	4.44e-05
16	2	17	5.24e-05	0.0	0.0	0.0	0.0	0.0	1.96e-03	-1.41e-05	1.95e-03	-6.12e-06	1.25e-04
		18	5.35e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	-2.27e-05	1.99e-03	-2.23e-05	-3.03e-05
		39	5.25e-05	0.0	0.0	0.0	0.0	0.0	2.26e-03	1.34e-03	2.26e-03	1.35e-03	6.41e-05
		38	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	1.36e-03	2.23e-03	1.36e-03	3.10e-05
16	3	17	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.94e-03	-1.40e-05	1.93e-03	-6.12e-06	1.24e-04
		18	5.30e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	-2.25e-05	1.98e-03	-2.20e-05	-3.01e-05
		39	5.21e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.34e-03	6.37e-05

		38	5.16e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	3.07e-05
16	4	17	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.94e-03	-1.40e-05	1.93e-03	-6.11e-06	1.23e-04
		18	5.29e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	-2.24e-05	1.97e-03	-2.20e-05	-3.00e-05
		39	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.23e-03	1.33e-03	6.35e-05
		38	5.15e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	3.07e-05
17	1	18	7.57e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	-2.04e-05	2.82e-03	-1.26e-05	1.49e-04
		19	6.68e-05	0.0	0.0	0.0	0.0	0.0	2.47e-03	-6.03e-05	2.47e-03	-5.94e-05	-4.79e-05
		40	6.72e-05	0.0	0.0	0.0	0.0	0.0	2.87e-03	1.84e-03	2.86e-03	1.85e-03	1.03e-04
		39	7.46e-05	0.0	0.0	0.0	0.0	0.0	3.21e-03	1.90e-03	3.21e-03	1.91e-03	5.75e-05
17	2	18	5.33e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	-1.45e-05	1.99e-03	-8.97e-06	1.05e-04
		19	4.71e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	-4.25e-05	1.74e-03	-4.19e-05	-3.37e-05
		40	4.73e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.29e-03	2.02e-03	1.30e-03	7.26e-05
		39	5.25e-05	0.0	0.0	0.0	0.0	0.0	2.26e-03	1.34e-03	2.26e-03	1.34e-03	4.03e-05
17	3	18	5.29e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	-1.43e-05	1.97e-03	-8.87e-06	1.04e-04
		19	4.67e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	-4.22e-05	1.73e-03	-4.15e-05	-3.34e-05
		40	4.69e-05	0.0	0.0	0.0	0.0	0.0	2.01e-03	1.28e-03	2.00e-03	1.29e-03	7.20e-05
		39	5.21e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.33e-03	4.00e-05
17	4	18	5.28e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	-1.43e-05	1.97e-03	-8.85e-06	1.04e-04
		19	4.66e-05	0.0	0.0	0.0	0.0	0.0	1.72e-03	-4.21e-05	1.72e-03	-4.14e-05	-3.33e-05
		40	4.68e-05	0.0	0.0	0.0	0.0	0.0	2.00e-03	1.28e-03	1.99e-03	1.29e-03	7.19e-05
		39	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.33e-03	3.99e-05
18	1	19	6.62e-05	0.0	0.0	0.0	0.0	0.0	2.45e-03	-6.30e-05	2.44e-03	-5.83e-05	1.08e-04
		20	3.79e-05	0.0	0.0	0.0	0.0	0.0	1.42e-03	-1.22e-05	1.41e-03	-1.10e-05	-4.14e-05
		41	4.56e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.49e-03	1.76e-03	1.60e-03	1.73e-04
		40	6.76e-05	0.0	0.0	0.0	0.0	0.0	2.89e-03	1.84e-03	2.88e-03	1.85e-03	9.84e-05
18	2	19	4.66e-05	0.0	0.0	0.0	0.0	0.0	1.72e-03	-4.45e-05	1.72e-03	-4.12e-05	7.59e-05
		20	2.67e-05	0.0	0.0	0.0	0.0	0.0	9.97e-04	-8.56e-06	9.96e-04	-7.72e-06	-2.91e-05
		41	3.21e-05	0.0	0.0	0.0	0.0	0.0	1.32e-03	1.05e-03	1.24e-03	1.13e-03	1.22e-04
		40	4.76e-05	0.0	0.0	0.0	0.0	0.0	2.04e-03	1.30e-03	2.03e-03	1.30e-03	6.93e-05
18	3	19	4.62e-05	0.0	0.0	0.0	0.0	0.0	1.71e-03	-4.41e-05	1.71e-03	-4.08e-05	7.53e-05
		20	2.65e-05	0.0	0.0	0.0	0.0	0.0	9.89e-04	-8.50e-06	9.88e-04	-7.67e-06	-2.89e-05
		41	3.18e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	1.04e-03	1.23e-03	1.12e-03	1.21e-04
		40	4.72e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.29e-03	2.01e-03	1.29e-03	6.87e-05
18	4	19	4.61e-05	0.0	0.0	0.0	0.0	0.0	1.71e-03	-4.40e-05	1.70e-03	-4.07e-05	7.51e-05
		20	2.64e-05	0.0	0.0	0.0	0.0	0.0	9.87e-04	-8.49e-06	9.86e-04	-7.65e-06	-2.88e-05
		41	3.18e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	1.04e-03	1.22e-03	1.11e-03	1.21e-04
		40	4.71e-05	0.0	0.0	0.0	0.0	0.0	2.01e-03	1.28e-03	2.01e-03	1.29e-03	6.86e-05
19	1	20	3.52e-05	0.0	0.0	0.0	0.0	0.0	1.18e-03	-2.47e-04	1.13e-03	-2.00e-04	2.54e-04
		21	1.23e-05	0.0	0.0	0.0	0.0	0.0	5.25e-04	1.77e-04	3.43e-04	3.60e-04	-1.74e-04
		42	2.90e-05	0.0	0.0	0.0	0.0	0.0	9.29e-04	-2.69e-04	-2.05e-04	8.65e-04	2.68e-04
		41	5.05e-05	0.0	0.0	0.0	0.0	0.0	2.06e-03	1.66e-03	1.97e-03	1.76e-03	1.70e-04
19	2	20	2.48e-05	0.0	0.0	0.0	0.0	0.0	8.31e-04	-1.74e-04	7.98e-04	-1.41e-04	1.79e-04
		21	8.70e-06	0.0	0.0	0.0	0.0	0.0	3.70e-04	1.24e-04	2.41e-04	2.53e-04	-1.23e-04
		42	2.04e-05	0.0	0.0	0.0	0.0	0.0	6.54e-04	-1.89e-04	-1.44e-04	6.09e-04	1.89e-04
		41	3.56e-05	0.0	0.0	0.0	0.0	0.0	1.45e-03	1.17e-03	1.39e-03	1.24e-03	1.20e-04
19	3	20	2.46e-05	0.0	0.0	0.0	0.0	0.0	8.23e-04	-1.72e-04	7.91e-04	-1.40e-04	1.77e-04
		21	8.62e-06	0.0	0.0	0.0	0.0	0.0	3.67e-04	1.23e-04	2.39e-04	2.51e-04	-1.22e-04
		42	2.02e-05	0.0	0.0	0.0	0.0	0.0	6.48e-04	-1.87e-04	-1.43e-04	6.04e-04	1.87e-04
		41	3.53e-05	0.0	0.0	0.0	0.0	0.0	1.44e-03	1.16e-03	1.37e-03	1.22e-03	1.19e-04
19	4	20	2.45e-05	0.0	0.0	0.0	0.0	0.0	8.22e-04	-1.72e-04	7.89e-04	-1.39e-04	1.77e-04
		21	8.60e-06	0.0	0.0	0.0	0.0	0.0	3.66e-04	1.23e-04	2.39e-04	2.50e-04	-1.21e-04
		42	2.02e-05	0.0	0.0	0.0	0.0	0.0	6.47e-04	-1.87e-04	-1.43e-04	6.03e-04	1.87e-04
		41	3.52e-05	0.0	0.0	0.0	0.0	0.0	1.44e-03	1.16e-03	1.37e-03	1.22e-03	1.18e-04
20	1	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	2	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	3	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	4	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

21	1	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	2	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	3	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	4	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	2	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	3	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	4	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	2	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	3	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	4	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	1	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	2	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	3	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	4	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	2	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	3	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	4	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	1	29	3.27e-05	0.0	0.0	0.0	0.0	0.0	1.21e-03	-3.31e-05	-3.31e-05	1.21e-03	-1.92e-06
		30	4.33e-05	0.0	0.0	0.0	0.0	0.0	1.78e-03	1.41e-03	1.60e-03	1.59e-03	-1.84e-04
		51	5.75e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.76e-03	1.77e-03	2.40e-03	-6.52e-05
		50	5.15e-05	0.0	0.0	0.0	0.0	0.0	1.90e-03	-6.16e-05	-5.75e-05	1.90e-03	-8.94e-05
26	2	29	2.30e-05	0.0	0.0	0.0	0.0	0.0	8.52e-04	-2.33e-05	-2.33e-05	8.52e-04	-1.52e-06
		30	3.05e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	9.90e-04	1.12e-03	1.12e-03	-1.30e-04
		51	4.04e-05	0.0	0.0	0.0	0.0	0.0	1.69e-03	1.24e-03	1.25e-03	1.68e-03	-4.59e-05
		50	3.62e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	-4.33e-05	-4.05e-05	1.33e-03	-6.29e-05
26	3	29	2.28e-05	0.0	0.0	0.0	0.0	0.0	8.45e-04	-2.31e-05	-2.31e-05	8.45e-04	-1.50e-06
		30	3.02e-05	0.0	0.0	0.0	0.0	0.0	1.24e-03	9.82e-04	1.11e-03	1.11e-03	-1.29e-04
		51	4.01e-05	0.0	0.0	0.0	0.0	0.0	1.68e-03	1.23e-03	1.23e-03	1.67e-03	-4.55e-05
		50	3.59e-05	0.0	0.0	0.0	0.0	0.0	1.33e-03	-4.30e-05	-4.01e-05	1.32e-03	-6.24e-05
26	4	29	2.28e-05	0.0	0.0	0.0	0.0	0.0	8.43e-04	-2.30e-05	-2.30e-05	8.43e-04	-1.50e-06
		30	3.01e-05	0.0	0.0	0.0	0.0	0.0	1.24e-03	9.80e-04	1.11e-03	1.11e-03	-1.28e-04
		51	4.00e-05	0.0	0.0	0.0	0.0	0.0	1.67e-03	1.23e-03	1.23e-03	1.67e-03	-4.54e-05
		50	3.58e-05	0.0	0.0	0.0	0.0	0.0	1.32e-03	-4.29e-05	-4.00e-05	1.32e-03	-6.23e-05
27	1	30	4.38e-05	0.0	0.0	0.0	0.0	0.0	1.80e-03	1.41e-03	1.58e-03	1.64e-03	-1.95e-04
		31	5.60e-05	0.0	0.0	0.0	0.0	0.0	2.30e-03	1.82e-03	2.29e-03	1.83e-03	-7.27e-05
		52	6.95e-05	0.0	0.0	0.0	0.0	0.0	2.71e-03	2.49e-03	2.52e-03	2.68e-03	-7.52e-05
		51	5.70e-05	0.0	0.0	0.0	0.0	0.0	2.39e-03	1.74e-03	1.74e-03	2.38e-03	-3.18e-05
27	2	30	3.08e-05	0.0	0.0	0.0	0.0	0.0	1.27e-03	9.91e-04	1.11e-03	1.15e-03	-1.37e-04
		31	3.93e-05	0.0	0.0	0.0	0.0	0.0	1.61e-03	1.28e-03	1.61e-03	1.28e-03	-5.13e-05
		52	4.89e-05	0.0	0.0	0.0	0.0	0.0	1.91e-03	1.75e-03	1.77e-03	1.88e-03	-5.30e-05
		51	4.01e-05	0.0	0.0	0.0	0.0	0.0	1.68e-03	1.22e-03	1.23e-03	1.68e-03	-2.24e-05
27	3	30	3.05e-05	0.0	0.0	0.0	0.0	0.0	1.26e-03	9.82e-04	1.10e-03	1.14e-03	-1.36e-04
		31	3.90e-05	0.0	0.0	0.0	0.0	0.0	1.60e-03	1.27e-03	1.59e-03	1.27e-03	-5.09e-05
		52	4.85e-05	0.0	0.0	0.0	0.0	0.0	1.89e-03	1.74e-03	1.76e-03	1.87e-03	-5.25e-05
		51	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.66e-03	1.21e-03	1.22e-03	1.66e-03	-2.22e-05
27	4	30	3.05e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	9.80e-04	1.10e-03	1.14e-03	-1.36e-04
		31	3.89e-05	0.0	0.0	0.0	0.0	0.0	1.60e-03	1.26e-03	1.59e-03	1.27e-03	-5.08e-05
		52	4.84e-05	0.0	0.0	0.0	0.0	0.0	1.89e-03	1.73e-03	1.75e-03	1.86e-03	-5.24e-05
		51	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.66e-03	1.21e-03	1.21e-03	1.66e-03	-2.22e-05
28	1	31	5.62e-05	0.0	0.0	0.0	0.0	0.0	2.32e-03	1.80e-03	2.29e-03	1.82e-03	-1.16e-04
		32	6.09e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.90e-03	2.54e-03	1.90e-03	-3.46e-05
		53	7.40e-05	0.0	0.0	0.0	0.0	0.0	2.82e-03	2.73e-03	2.75e-03	2.80e-03	-3.76e-05
		52	6.93e-05	0.0	0.0	0.0	0.0	0.0	2.68e-03	2.51e-03	2.51e-03	2.68e-03	-2.97e-05
28	2	31	3.95e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.26e-03	1.61e-03	1.28e-03	-8.19e-05
		32	4.28e-05	0.0	0.0	0.0	0.0	0.0	1.78e-03	1.33e-03	1.78e-03	1.33e-03	-2.45e-05
		53	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.92e-03	1.93e-03	1.97e-03	-2.65e-05
		52	4.87e-05	0.0	0.0	0.0	0.0	0.0	1.89e-03	1.76e-03	1.76e-03	1.88e-03	-2.09e-05
28	3	31	3.92e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.25e-03	1.60e-03	1.27e-03	-8.12e-05
		32	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.77e-03	1.32e-03	-2.43e-05
		53	5.16e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.90e-03	1.92e-03	1.95e-03	-2.63e-05
		52	4.83e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.75e-03	1.75e-03	1.87e-03	-2.07e-05
28	4	31	3.91e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.25e-03	1.60e-03	1.27e-03	-8.10e-05
		32	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.76e-03	1.32e-03	-2.42e-05
		53	5.15e-05	0.0	0.0	0.0	0.0	0.0	1.96e-03	1.90e-03	1.91e-03	1.95e-03	-2.62e-05
		52	4.82e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.74e-03	1.75e-03	1.86e-03	-2.07e-05
29	1	32	6.10e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.89e-03	2.54e-03	1.89e-03	-6.54e-05
		33	6.12e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.91e-03	2.54e-03	1.91e-03	-1.02e-05
		54	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.84e-03	2.74e-03	2.75e-03	2.83e-03	-2.03e-05
		53	7.39e-05	0.0	0.0	0.0	0.0	0.0	2.80e-03	2.74e-03	2.75e-03	2.80e-03	-1.23e-05
29	2	32	4.29e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.33e-03	1.78e-03	1.33e-03	-4.62e-05
		33	4.30e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.35e-03	1.79e-03	1.35e-03	-7.34e-06
		54	5.23e-05	0.0	0.0	0.0	0.0	0.0	2.00e-03	1.93e-03	1.93e-03	1.99e-03	-1.44e-05
		53	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.93e-03	1.93e-03	1.97e-03	-8.72e-06
29	3	32	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.77e-03	1.32e-03	-4.58e-05
		33	4.27e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.34e-03	1.77e-03	1.34e-03	-7.26e-06

		54	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.91e-03	1.91e-03	1.98e-03	-1.42e-05
		53	5.16e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.91e-03	1.92e-03	1.95e-03	-8.64e-06
29	4	32	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.31e-03	1.76e-03	1.32e-03	-4.57e-05
		33	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	-7.24e-06
		54	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.91e-03	1.91e-03	1.97e-03	-1.42e-05
		53	5.15e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.91e-03	1.91e-03	1.95e-03	-8.62e-06
30	1	33	6.12e-05	0.0	0.0	0.0	0.0	0.0	2.55e-03	1.91e-03	2.54e-03	1.91e-03	-3.63e-05
		34	6.03e-05	0.0	0.0	0.0	0.0	0.0	2.49e-03	1.91e-03	2.49e-03	1.91e-03	9.94e-06
		55	7.38e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.69e-03	2.69e-03	2.83e-03	-1.09e-05
		54	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.75e-03	2.75e-03	2.83e-03	0.0
30	2	33	4.30e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.34e-03	1.79e-03	1.35e-03	-2.57e-05
		34	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	1.35e-03	1.75e-03	1.35e-03	6.84e-06
		55	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.89e-03	1.89e-03	1.99e-03	-7.72e-06
		54	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.93e-03	1.93e-03	1.99e-03	0.0
30	3	33	4.27e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	-2.55e-05
		34	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	6.81e-06
		55	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.88e-03	1.88e-03	1.98e-03	-7.65e-06
		54	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.91e-03	1.91e-03	1.98e-03	0.0
30	4	33	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	-2.54e-05
		34	4.19e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	1.33e-03	1.73e-03	1.33e-03	6.80e-06
		55	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.87e-03	1.87e-03	1.97e-03	-7.63e-06
		54	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.91e-03	1.91e-03	1.97e-03	0.0
31	1	34	6.03e-05	0.0	0.0	0.0	0.0	0.0	2.49e-03	1.91e-03	2.49e-03	1.91e-03	-1.46e-05
		35	6.04e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	1.91e-03	2.50e-03	1.91e-03	3.00e-05
		56	7.37e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.70e-03	2.70e-03	2.83e-03	-4.36e-06
		55	7.38e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.69e-03	2.69e-03	2.83e-03	9.86e-06
31	2	34	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	1.35e-03	1.75e-03	1.35e-03	-1.04e-05
		35	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.34e-03	1.76e-03	1.34e-03	2.09e-05
		56	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.90e-03	1.90e-03	1.99e-03	-3.12e-06
		55	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.89e-03	1.89e-03	1.99e-03	6.85e-06
31	3	34	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-1.03e-05
		35	4.21e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	2.08e-05
		56	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	-3.08e-06
		55	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.88e-03	1.88e-03	1.98e-03	6.81e-06
31	4	34	4.19e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	1.33e-03	1.73e-03	1.33e-03	-1.03e-05
		35	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	2.07e-05
		56	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	-3.07e-06
		55	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.87e-03	1.87e-03	1.97e-03	6.79e-06
32	1	35	6.04e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	1.91e-03	2.50e-03	1.91e-03	6.77e-06
		36	6.23e-05	0.0	0.0	0.0	0.0	0.0	2.61e-03	1.90e-03	2.60e-03	1.90e-03	4.15e-05
		57	7.49e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.79e-03	2.79e-03	2.83e-03	2.40e-06
		56	7.37e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.70e-03	2.70e-03	2.83e-03	1.61e-05
32	2	35	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.34e-03	1.76e-03	1.34e-03	4.56e-06
		36	4.38e-05	0.0	0.0	0.0	0.0	0.0	1.83e-03	1.34e-03	1.83e-03	1.34e-03	2.92e-05
		57	5.27e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.97e-03	1.97e-03	1.99e-03	1.58e-06
		56	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.90e-03	1.90e-03	1.99e-03	1.12e-05
32	3	35	4.21e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	4.55e-06
		36	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.33e-03	1.82e-03	1.33e-03	2.89e-05
		57	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.95e-03	1.95e-03	1.97e-03	1.59e-06
		56	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	1.12e-05
32	4	35	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	4.55e-06
		36	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.81e-03	1.32e-03	1.81e-03	1.33e-03	2.89e-05
		57	5.22e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.95e-03	1.95e-03	1.97e-03	1.59e-06
		56	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	1.11e-05
33	1	36	6.22e-05	0.0	0.0	0.0	0.0	0.0	2.60e-03	1.90e-03	2.60e-03	1.90e-03	2.10e-05
		37	6.84e-05	0.0	0.0	0.0	0.0	0.0	2.91e-03	1.92e-03	2.91e-03	1.93e-03	5.32e-05
		58	7.97e-05	0.0	0.0	0.0	0.0	0.0	3.10e-03	2.86e-03	3.10e-03	2.86e-03	4.02e-06
		57	7.49e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.79e-03	2.79e-03	2.82e-03	1.87e-05
33	2	36	4.38e-05	0.0	0.0	0.0	0.0	0.0	1.83e-03	1.34e-03	1.83e-03	1.34e-03	1.47e-05
		37	4.81e-05	0.0	0.0	0.0	0.0	0.0	2.05e-03	1.35e-03	2.04e-03	1.36e-03	3.74e-05
		58	5.61e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	2.01e-03	2.18e-03	2.01e-03	2.82e-06
		57	5.27e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.96e-03	1.97e-03	1.99e-03	1.32e-05
33	3	36	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.33e-03	1.82e-03	1.33e-03	1.46e-05
		37	4.77e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.34e-03	2.03e-03	1.34e-03	3.71e-05
		58	5.56e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	2.80e-06
		57	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.94e-03	1.95e-03	1.97e-03	1.30e-05
33	4	36	4.33e-05	0.0	0.0	0.0	0.0	0.0	1.81e-03	1.33e-03	1.81e-03	1.33e-03	1.45e-05
		37	4.76e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.34e-03	2.02e-03	1.34e-03	3.70e-05
		58	5.55e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	2.79e-06

		57	5.22e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.94e-03	1.95e-03	1.97e-03	1.30e-05
34	1	37	6.83e-05	0.0	0.0	0.0	0.0	0.0	2.91e-03	1.93e-03	2.91e-03	1.93e-03	2.78e-05
		38	7.39e-05	0.0	0.0	0.0	0.0	0.0	3.18e-03	1.94e-03	3.17e-03	1.94e-03	6.78e-05
		59	8.40e-05	0.0	0.0	0.0	0.0	0.0	3.37e-03	2.87e-03	3.37e-03	2.87e-03	8.20e-06
		58	7.97e-05	0.0	0.0	0.0	0.0	0.0	3.11e-03	2.86e-03	3.10e-03	2.86e-03	2.56e-05
34	2	37	4.81e-05	0.0	0.0	0.0	0.0	0.0	2.04e-03	1.36e-03	2.04e-03	1.36e-03	1.96e-05
		38	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	1.36e-03	2.23e-03	1.36e-03	4.75e-05
		59	5.91e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	2.02e-03	2.37e-03	2.02e-03	5.76e-06
		58	5.60e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	2.01e-03	2.18e-03	2.01e-03	1.79e-05
34	3	37	4.77e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.35e-03	2.03e-03	1.35e-03	1.94e-05
		38	5.15e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	4.72e-05
		59	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	5.72e-06
		58	5.56e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.99e-03	2.16e-03	1.99e-03	1.78e-05
34	4	37	4.76e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.34e-03	2.02e-03	1.34e-03	1.94e-05
		38	5.14e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	4.71e-05
		59	5.85e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	5.70e-06
		58	5.55e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	1.77e-05
35	1	38	7.39e-05	0.0	0.0	0.0	0.0	0.0	3.17e-03	1.94e-03	3.17e-03	1.94e-03	3.88e-05
		39	7.46e-05	0.0	0.0	0.0	0.0	0.0	3.21e-03	1.91e-03	3.21e-03	1.91e-03	7.98e-05
		60	8.42e-05	0.0	0.0	0.0	0.0	0.0	3.41e-03	2.82e-03	3.41e-03	2.82e-03	1.77e-05
		59	8.40e-05	0.0	0.0	0.0	0.0	0.0	3.37e-03	2.87e-03	3.37e-03	2.87e-03	3.18e-05
35	2	38	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	1.36e-03	2.23e-03	1.36e-03	2.71e-05
		39	5.25e-05	0.0	0.0	0.0	0.0	0.0	2.26e-03	1.34e-03	2.26e-03	1.34e-03	5.60e-05
		60	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.99e-03	2.40e-03	1.99e-03	1.24e-05
		59	5.91e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	2.02e-03	2.37e-03	2.02e-03	2.23e-05
35	3	38	5.15e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	2.69e-05
		39	5.21e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.33e-03	5.56e-05
		60	5.88e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	1.23e-05
		59	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	2.21e-05
35	4	38	5.14e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	2.69e-05
		39	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.23e-03	1.33e-03	5.55e-05
		60	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	1.97e-03	2.37e-03	1.97e-03	1.23e-05
		59	5.85e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.34e-03	2.00e-03	2.20e-05
36	1	39	7.46e-05	0.0	0.0	0.0	0.0	0.0	3.21e-03	1.91e-03	3.21e-03	1.91e-03	4.59e-05
		40	6.73e-05	0.0	0.0	0.0	0.0	0.0	2.88e-03	1.81e-03	2.87e-03	1.82e-03	1.14e-04
		61	7.73e-05	0.0	0.0	0.0	0.0	0.0	3.08e-03	2.68e-03	3.08e-03	2.68e-03	2.78e-05
		60	8.42e-05	0.0	0.0	0.0	0.0	0.0	3.41e-03	2.82e-03	3.41e-03	2.83e-03	4.40e-05
36	2	39	5.25e-05	0.0	0.0	0.0	0.0	0.0	2.26e-03	1.34e-03	2.26e-03	1.35e-03	3.21e-05
		40	4.74e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.28e-03	2.02e-03	1.28e-03	8.06e-05
		61	5.44e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.88e-03	2.17e-03	1.89e-03	1.95e-05
		60	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.99e-03	2.40e-03	1.99e-03	3.09e-05
36	3	39	5.21e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.33e-03	3.19e-05
		40	4.70e-05	0.0	0.0	0.0	0.0	0.0	2.01e-03	1.27e-03	2.01e-03	1.27e-03	7.99e-05
		61	5.40e-05	0.0	0.0	0.0	0.0	0.0	2.15e-03	1.87e-03	2.15e-03	1.87e-03	1.94e-05
		60	5.88e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	3.07e-05
36	4	39	5.19e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.23e-03	1.33e-03	3.18e-05
		40	4.69e-05	0.0	0.0	0.0	0.0	0.0	2.01e-03	1.26e-03	2.00e-03	1.27e-03	7.97e-05
		61	5.39e-05	0.0	0.0	0.0	0.0	0.0	2.15e-03	1.86e-03	2.14e-03	1.87e-03	1.93e-05
		60	5.87e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.37e-03	1.97e-03	3.06e-05
37	1	40	6.70e-05	0.0	0.0	0.0	0.0	0.0	2.87e-03	1.82e-03	2.86e-03	1.83e-03	6.44e-05
		41	4.63e-05	0.0	0.0	0.0	0.0	0.0	1.91e-03	1.49e-03	1.80e-03	1.59e-03	1.81e-04
		62	5.78e-05	0.0	0.0	0.0	0.0	0.0	2.32e-03	1.96e-03	1.97e-03	2.32e-03	3.18e-05
		61	7.76e-05	0.0	0.0	0.0	0.0	0.0	3.11e-03	2.67e-03	3.09e-03	2.68e-03	7.83e-05
37	2	40	4.72e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.28e-03	2.02e-03	1.29e-03	4.53e-05
		41	3.26e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	1.05e-03	1.27e-03	1.12e-03	1.27e-04
		62	4.07e-05	0.0	0.0	0.0	0.0	0.0	1.64e-03	1.38e-03	1.38e-03	1.63e-03	2.24e-05
		61	5.47e-05	0.0	0.0	0.0	0.0	0.0	2.19e-03	1.88e-03	2.18e-03	1.89e-03	5.51e-05
37	3	40	4.68e-05	0.0	0.0	0.0	0.0	0.0	2.00e-03	1.27e-03	2.00e-03	1.28e-03	4.50e-05
		41	3.23e-05	0.0	0.0	0.0	0.0	0.0	1.33e-03	1.04e-03	1.26e-03	1.11e-03	1.26e-04
		62	4.03e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.37e-03	1.37e-03	1.62e-03	2.22e-05
		61	5.42e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.86e-03	2.16e-03	1.87e-03	5.46e-05
37	4	40	4.67e-05	0.0	0.0	0.0	0.0	0.0	2.00e-03	1.27e-03	1.99e-03	1.27e-03	4.49e-05
		41	3.23e-05	0.0	0.0	0.0	0.0	0.0	1.33e-03	1.04e-03	1.26e-03	1.11e-03	1.26e-04
		62	4.02e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.37e-03	1.37e-03	1.62e-03	2.22e-05
		61	5.41e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.86e-03	2.15e-03	1.87e-03	5.45e-05
38	1	41	4.62e-05	0.0	0.0	0.0	0.0	0.0	1.91e-03	1.46e-03	1.82e-03	1.55e-03	1.80e-04
		42	3.08e-05	0.0	0.0	0.0	0.0	0.0	1.14e-03	-3.09e-05	-3.06e-05	1.14e-03	-1.93e-05
		63	4.88e-05	0.0	0.0	0.0	0.0	0.0	1.80e-03	-6.19e-05	-5.63e-05	1.79e-03	1.02e-04
		62	5.83e-05	0.0	0.0	0.0	0.0	0.0	2.34e-03	1.99e-03	1.99e-03	2.33e-03	5.57e-05

38	2	41	3.25e-05	0.0	0.0	0.0	0.0	0.0	1.35e-03	1.03e-03	1.29e-03	1.09e-03	1.27e-04
		42	2.17e-05	0.0	0.0	0.0	0.0	0.0	8.03e-04	-2.17e-05	-2.15e-05	8.03e-04	-1.36e-05
		63	3.44e-05	0.0	0.0	0.0	0.0	0.0	1.27e-03	-4.36e-05	-3.96e-05	1.26e-03	7.21e-05
		62	4.10e-05	0.0	0.0	0.0	0.0	0.0	1.65e-03	1.40e-03	1.40e-03	1.64e-03	3.92e-05
38	3	41	3.22e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	1.02e-03	1.27e-03	1.08e-03	1.26e-04
		42	2.15e-05	0.0	0.0	0.0	0.0	0.0	7.96e-04	-2.15e-05	-2.13e-05	7.96e-04	-1.35e-05
		63	3.41e-05	0.0	0.0	0.0	0.0	0.0	1.26e-03	-4.32e-05	-3.93e-05	1.25e-03	7.15e-05
		62	4.07e-05	0.0	0.0	0.0	0.0	0.0	1.64e-03	1.39e-03	1.39e-03	1.63e-03	3.89e-05
38	4	41	3.22e-05	0.0	0.0	0.0	0.0	0.0	1.33e-03	1.01e-03	1.27e-03	1.08e-03	1.26e-04
		42	2.15e-05	0.0	0.0	0.0	0.0	0.0	7.95e-04	-2.15e-05	-2.13e-05	7.94e-04	-1.35e-05
		63	3.40e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	-4.31e-05	-3.92e-05	1.25e-03	7.14e-05
		62	4.06e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.38e-03	1.39e-03	1.63e-03	3.88e-05
39	1	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	2	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	3	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	4	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	1	44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	2	44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	3	44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	4	44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	1	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	2	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	3	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	4	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	1	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	2	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	3	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	4	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	1	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	2	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	3	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	4	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	1	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	2	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	3	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	4	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	1	50	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.92e-03	-5.37e-05	-5.24e-05	1.92e-03	5.03e-05
		51	5.71e-05	0.0	0.0	0.0	0.0	0.0	2.39e-03	1.76e-03	1.76e-03	2.38e-03	-6.44e-05
		72	5.71e-05	0.0	0.0	0.0	0.0	0.0	2.39e-03	1.76e-03	1.76e-03	2.38e-03	6.44e-05
		71	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.92e-03	-5.37e-05	-5.24e-05	1.92e-03	-5.03e-05
45	2	50	3.66e-05	0.0	0.0	0.0	0.0	0.0	1.35e-03	-3.78e-05	-3.69e-05	1.35e-03	3.53e-05
		51	4.02e-05	0.0	0.0	0.0	0.0	0.0	1.68e-03	1.23e-03	1.24e-03	1.67e-03	-4.54e-05
		72	4.02e-05	0.0	0.0	0.0	0.0	0.0	1.68e-03	1.23e-03	1.24e-03	1.67e-03	4.54e-05
		71	3.66e-05	0.0	0.0	0.0	0.0	0.0	1.35e-03	-3.78e-05	-3.69e-05	1.35e-03	-3.54e-05
45	3	50	3.63e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	-3.74e-05	-3.65e-05	1.34e-03	3.51e-05
		51	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.67e-03	1.22e-03	1.23e-03	1.66e-03	-4.50e-05
		72	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.67e-03	1.22e-03	1.23e-03	1.66e-03	4.50e-05
		71	3.63e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	-3.74e-05	-3.65e-05	1.34e-03	-3.51e-05
45	4	50	3.62e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	-3.74e-05	-3.65e-05	1.34e-03	3.50e-05
		51	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.66e-03	1.22e-03	1.23e-03	1.66e-03	-4.49e-05
		72	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.66e-03	1.22e-03	1.23e-03	1.66e-03	4.49e-05
		71	3.62e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	-3.74e-05	-3.65e-05	1.34e-03	-3.50e-05
46	1	51	5.72e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.73e-03	1.74e-03	2.39e-03	-8.04e-05
		52	6.93e-05	0.0	0.0	0.0	0.0	0.0	2.68e-03	2.52e-03	2.52e-03	2.67e-03	-2.53e-05
		73	6.93e-05	0.0	0.0	0.0	0.0	0.0	2.68e-03	2.52e-03	2.52e-03	2.67e-03	2.53e-05
		72	5.72e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.73e-03	1.74e-03	2.39e-03	8.04e-05
46	2	51	4.03e-05	0.0	0.0	0.0	0.0	0.0	1.69e-03	1.22e-03	1.22e-03	1.68e-03	-5.66e-05
		52	4.87e-05	0.0	0.0	0.0	0.0	0.0	1.88e-03	1.77e-03	1.77e-03	1.88e-03	-1.79e-05
		73	4.87e-05	0.0	0.0	0.0	0.0	0.0	1.88e-03	1.77e-03	1.77e-03	1.88e-03	1.79e-05
		72	4.03e-05	0.0	0.0	0.0	0.0	0.0	1.69e-03	1.22e-03	1.22e-03	1.68e-03	5.66e-05
46	3	51	3.99e-05	0.0	0.0	0.0	0.0	0.0	1.68e-03	1.21e-03	1.21e-03	1.67e-03	-5.62e-05
		52	4.83e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.75e-03	1.76e-03	1.86e-03	-1.77e-05
		73	4.83e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.75e-03	1.76e-03	1.86e-03	1.77e-05
		72	3.99e-05	0.0	0.0	0.0	0.0	0.0	1.68e-03	1.21e-03	1.21e-03	1.67e-03	5.62e-05
46	4	51	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.67e-03	1.20e-03	1.21e-03	1.66e-03	-5.60e-05
		52	4.82e-05	0.0	0.0	0.0	0.0	0.0	1.86e-03	1.75e-03	1.75e-03	1.86e-03	-1.77e-05

		73	4.82e-05	0.0	0.0	0.0	0.0	0.0	1.86e-03	1.75e-03	1.75e-03	1.86e-03	1.77e-05
		72	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.67e-03	1.20e-03	1.21e-03	1.66e-03	5.60e-05
47	1	52	6.93e-05	0.0	0.0	0.0	0.0	0.0	2.69e-03	2.50e-03	2.51e-03	2.67e-03	-5.32e-05
		53	7.40e-05	0.0	0.0	0.0	0.0	0.0	2.80e-03	2.75e-03	2.75e-03	2.80e-03	-1.29e-05
		74	7.40e-05	0.0	0.0	0.0	0.0	0.0	2.80e-03	2.75e-03	2.75e-03	2.80e-03	1.29e-05
		73	6.93e-05	0.0	0.0	0.0	0.0	0.0	2.69e-03	2.50e-03	2.51e-03	2.67e-03	5.32e-05
47	2	52	4.87e-05	0.0	0.0	0.0	0.0	0.0	1.89e-03	1.75e-03	1.77e-03	1.88e-03	-3.75e-05
		53	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.93e-03	1.93e-03	1.97e-03	-9.15e-06
		74	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.93e-03	1.93e-03	1.97e-03	9.15e-06
		73	4.87e-05	0.0	0.0	0.0	0.0	0.0	1.89e-03	1.75e-03	1.77e-03	1.88e-03	3.75e-05
47	3	52	4.83e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.74e-03	1.75e-03	1.86e-03	-3.72e-05
		53	5.16e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.91e-03	1.92e-03	1.95e-03	-9.07e-06
		74	5.16e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.91e-03	1.92e-03	1.95e-03	9.07e-06
		73	4.83e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.74e-03	1.75e-03	1.86e-03	3.72e-05
47	4	52	4.82e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.74e-03	1.75e-03	1.86e-03	-3.71e-05
		53	5.15e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.91e-03	1.91e-03	1.95e-03	-9.05e-06
		74	5.15e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.91e-03	1.91e-03	1.95e-03	9.05e-06
		73	4.82e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.74e-03	1.75e-03	1.86e-03	3.71e-05
48	1	53	7.39e-05	0.0	0.0	0.0	0.0	0.0	2.81e-03	2.74e-03	2.75e-03	2.79e-03	-2.86e-05
		54	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.75e-03	2.75e-03	2.83e-03	-3.09e-06
		75	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.75e-03	2.75e-03	2.83e-03	3.09e-06
		74	7.39e-05	0.0	0.0	0.0	0.0	0.0	2.81e-03	2.74e-03	2.75e-03	2.79e-03	2.86e-05
48	2	53	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.92e-03	1.93e-03	1.97e-03	-2.02e-05
		54	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.93e-03	1.93e-03	1.99e-03	-2.22e-06
		75	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.93e-03	1.93e-03	1.99e-03	2.22e-06
		74	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.92e-03	1.93e-03	1.97e-03	2.02e-05
48	3	53	5.16e-05	0.0	0.0	0.0	0.0	0.0	1.96e-03	1.91e-03	1.92e-03	1.95e-03	-2.00e-05
		54	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.91e-03	1.91e-03	1.98e-03	-2.20e-06
		75	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.91e-03	1.91e-03	1.98e-03	2.20e-06
		74	5.16e-05	0.0	0.0	0.0	0.0	0.0	1.96e-03	1.91e-03	1.92e-03	1.95e-03	2.00e-05
48	4	53	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.90e-03	1.91e-03	1.95e-03	-2.00e-05
		54	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.91e-03	1.91e-03	1.97e-03	-2.19e-06
		75	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.91e-03	1.91e-03	1.97e-03	2.19e-06
		74	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.90e-03	1.91e-03	1.95e-03	2.00e-05
49	1	54	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.74e-03	2.75e-03	2.83e-03	-1.54e-05
		55	7.38e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.69e-03	2.69e-03	2.83e-03	4.93e-06
		76	7.38e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.69e-03	2.69e-03	2.83e-03	-4.93e-06
		75	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.74e-03	2.75e-03	2.83e-03	1.54e-05
49	2	54	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.93e-03	1.93e-03	1.99e-03	-1.09e-05
		55	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.89e-03	1.89e-03	1.99e-03	3.41e-06
		76	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.89e-03	1.89e-03	1.99e-03	-3.40e-06
		75	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.93e-03	1.93e-03	1.99e-03	1.09e-05
49	3	54	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.91e-03	1.91e-03	1.97e-03	-1.08e-05
		55	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.88e-03	1.88e-03	1.98e-03	3.39e-06
		76	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.88e-03	1.88e-03	1.98e-03	-3.39e-06
		75	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.91e-03	1.91e-03	1.97e-03	1.08e-05
49	4	54	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.91e-03	1.91e-03	1.97e-03	-1.07e-05
		55	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.87e-03	1.87e-03	1.97e-03	3.38e-06
		76	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.87e-03	1.87e-03	1.97e-03	-3.38e-06
		75	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.91e-03	1.91e-03	1.97e-03	1.07e-05
50	1	55	7.38e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.69e-03	2.69e-03	2.83e-03	-6.99e-06
		56	7.37e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.70e-03	2.70e-03	2.83e-03	1.19e-05
		77	7.37e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.70e-03	2.70e-03	2.83e-03	-1.19e-05
		76	7.38e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.69e-03	2.69e-03	2.83e-03	6.99e-06
50	2	55	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.89e-03	1.89e-03	1.99e-03	-4.96e-06
		56	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.90e-03	1.90e-03	1.99e-03	8.31e-06
		77	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.90e-03	1.90e-03	1.99e-03	-8.31e-06
		76	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.89e-03	1.89e-03	1.99e-03	4.96e-06
50	3	55	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.88e-03	1.88e-03	1.98e-03	-4.91e-06
		56	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	8.25e-06
		77	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	-8.25e-06
		76	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.88e-03	1.88e-03	1.98e-03	4.92e-06
50	4	55	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.87e-03	1.87e-03	1.97e-03	-4.90e-06
		56	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	8.24e-06
		77	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	-8.24e-06
		76	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.87e-03	1.87e-03	1.97e-03	4.90e-06
51	1	56	7.37e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.70e-03	2.70e-03	2.83e-03	0.0
		57	7.50e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.79e-03	2.80e-03	2.83e-03	1.43e-05
		78	7.50e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.79e-03	2.80e-03	2.83e-03	-1.43e-05

		77	7.37e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.70e-03	2.70e-03	2.83e-03	0.0
51	2	56	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.90e-03	1.90e-03	1.99e-03	0.0
		57	5.27e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.96e-03	1.97e-03	1.99e-03	1.01e-05
		78	5.27e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.96e-03	1.97e-03	1.99e-03	-1.01e-05
		77	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.90e-03	1.90e-03	1.99e-03	0.0
51	3	56	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	0.0
		57	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.95e-03	1.95e-03	1.97e-03	1.00e-05
		78	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.95e-03	1.95e-03	1.97e-03	-1.00e-05
		77	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	0.0
51	4	56	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	0.0
		57	5.22e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.94e-03	1.95e-03	1.97e-03	9.98e-06
		78	5.22e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.94e-03	1.95e-03	1.97e-03	-9.98e-06
		77	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	0.0
52	1	57	7.49e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.79e-03	2.79e-03	2.83e-03	6.00e-06
		58	7.97e-05	0.0	0.0	0.0	0.0	0.0	3.11e-03	2.86e-03	3.10e-03	2.86e-03	1.98e-05
		79	7.97e-05	0.0	0.0	0.0	0.0	0.0	3.11e-03	2.86e-03	3.10e-03	2.86e-03	-1.98e-05
		78	7.49e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.79e-03	2.79e-03	2.83e-03	-6.00e-06
52	2	57	5.27e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.97e-03	1.97e-03	1.99e-03	4.14e-06
		58	5.61e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	2.01e-03	2.18e-03	2.01e-03	1.39e-05
		79	5.61e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	2.01e-03	2.18e-03	2.01e-03	-1.39e-05
		78	5.27e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.97e-03	1.97e-03	1.99e-03	-4.13e-06
52	3	57	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.95e-03	1.95e-03	1.97e-03	4.11e-06
		58	5.56e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.99e-03	2.16e-03	1.99e-03	1.38e-05
		79	5.56e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.99e-03	2.16e-03	1.99e-03	-1.38e-05
		78	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.95e-03	1.95e-03	1.97e-03	-4.11e-06
52	4	57	5.22e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.95e-03	1.95e-03	1.97e-03	4.11e-06
		58	5.55e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	1.38e-05
		79	5.55e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	-1.38e-05
		78	5.22e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.95e-03	1.95e-03	1.97e-03	-4.11e-06
53	1	58	7.97e-05	0.0	0.0	0.0	0.0	0.0	3.10e-03	2.86e-03	3.10e-03	2.86e-03	7.24e-06
		59	8.40e-05	0.0	0.0	0.0	0.0	0.0	3.37e-03	2.87e-03	3.37e-03	2.87e-03	2.63e-05
		80	8.40e-05	0.0	0.0	0.0	0.0	0.0	3.37e-03	2.87e-03	3.37e-03	2.87e-03	-2.63e-05
		79	7.97e-05	0.0	0.0	0.0	0.0	0.0	3.10e-03	2.86e-03	3.10e-03	2.86e-03	-7.24e-06
53	2	58	5.60e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	2.01e-03	2.18e-03	2.01e-03	5.12e-06
		59	5.91e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	2.02e-03	2.37e-03	2.02e-03	1.84e-05
		80	5.91e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	2.02e-03	2.37e-03	2.02e-03	-1.84e-05
		79	5.60e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	2.01e-03	2.18e-03	2.01e-03	-5.12e-06
53	3	58	5.56e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	5.07e-06
		59	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	1.83e-05
		80	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	-1.83e-05
		79	5.56e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	-5.07e-06
53	4	58	5.55e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	5.06e-06
		59	5.85e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	1.82e-05
		80	5.85e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	-1.82e-05
		79	5.55e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	-5.06e-06
54	1	59	8.40e-05	0.0	0.0	0.0	0.0	0.0	3.37e-03	2.87e-03	3.37e-03	2.87e-03	1.20e-05
		60	8.42e-05	0.0	0.0	0.0	0.0	0.0	3.41e-03	2.82e-03	3.41e-03	2.82e-03	3.39e-05
		81	8.42e-05	0.0	0.0	0.0	0.0	0.0	3.41e-03	2.82e-03	3.41e-03	2.82e-03	-3.39e-05
		80	8.40e-05	0.0	0.0	0.0	0.0	0.0	3.37e-03	2.87e-03	3.37e-03	2.87e-03	-1.20e-05
54	2	59	5.91e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	2.02e-03	2.37e-03	2.02e-03	8.44e-06
		60	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.98e-03	2.40e-03	1.99e-03	2.38e-05
		81	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.98e-03	2.40e-03	1.99e-03	-2.38e-05
		80	5.91e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	2.02e-03	2.37e-03	2.02e-03	-8.44e-06
54	3	59	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	8.38e-06
		60	5.88e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	2.36e-05
		81	5.88e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	-2.36e-05
		80	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	-8.38e-06
54	4	59	5.85e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	8.36e-06
		60	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.96e-03	2.37e-03	1.97e-03	2.35e-05
		81	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.96e-03	2.37e-03	1.97e-03	-2.35e-05
		80	5.85e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	-8.36e-06
55	1	60	8.42e-05	0.0	0.0	0.0	0.0	0.0	3.41e-03	2.82e-03	3.41e-03	2.82e-03	1.72e-05
		61	7.73e-05	0.0	0.0	0.0	0.0	0.0	3.09e-03	2.67e-03	3.08e-03	2.67e-03	5.58e-05
		82	7.73e-05	0.0	0.0	0.0	0.0	0.0	3.09e-03	2.67e-03	3.08e-03	2.67e-03	-5.58e-05
		81	8.42e-05	0.0	0.0	0.0	0.0	0.0	3.41e-03	2.82e-03	3.41e-03	2.82e-03	-1.72e-05
55	2	60	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.99e-03	2.40e-03	1.99e-03	1.20e-05
		61	5.45e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.88e-03	2.17e-03	1.88e-03	3.93e-05
		82	5.45e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.88e-03	2.17e-03	1.88e-03	-3.93e-05
		81	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.99e-03	2.40e-03	1.99e-03	-1.20e-05

55	3	60	5.88e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	1.19e-05
		61	5.40e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.86e-03	2.15e-03	1.87e-03	3.90e-05
		82	5.40e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.86e-03	2.15e-03	1.87e-03	-3.90e-05
		81	5.88e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	-1.19e-05
55	4	60	5.87e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	1.19e-05
		61	5.39e-05	0.0	0.0	0.0	0.0	0.0	2.15e-03	1.86e-03	2.15e-03	1.86e-03	3.89e-05
		82	5.39e-05	0.0	0.0	0.0	0.0	0.0	2.15e-03	1.86e-03	2.15e-03	1.86e-03	-3.89e-05
		81	5.87e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	-1.19e-05
56	1	61	7.74e-05	0.0	0.0	0.0	0.0	0.0	3.09e-03	2.67e-03	3.09e-03	2.67e-03	2.31e-05
		62	5.80e-05	0.0	0.0	0.0	0.0	0.0	2.34e-03	1.95e-03	1.96e-03	2.33e-03	7.65e-05
		83	5.80e-05	0.0	0.0	0.0	0.0	0.0	2.34e-03	1.95e-03	1.96e-03	2.33e-03	-7.65e-05
		82	7.74e-05	0.0	0.0	0.0	0.0	0.0	3.09e-03	2.67e-03	3.09e-03	2.67e-03	-2.31e-05
56	2	61	5.45e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	1.88e-03	2.18e-03	1.88e-03	1.62e-05
		62	4.08e-05	0.0	0.0	0.0	0.0	0.0	1.65e-03	1.37e-03	1.38e-03	1.64e-03	5.39e-05
		83	4.08e-05	0.0	0.0	0.0	0.0	0.0	1.65e-03	1.37e-03	1.38e-03	1.64e-03	-5.39e-05
		82	5.45e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	1.88e-03	2.18e-03	1.88e-03	-1.62e-05
56	3	61	5.41e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.87e-03	2.16e-03	1.87e-03	1.61e-05
		62	4.05e-05	0.0	0.0	0.0	0.0	0.0	1.64e-03	1.36e-03	1.37e-03	1.63e-03	5.34e-05
		83	4.05e-05	0.0	0.0	0.0	0.0	0.0	1.64e-03	1.36e-03	1.37e-03	1.63e-03	-5.34e-05
		82	5.41e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.87e-03	2.16e-03	1.87e-03	-1.61e-05
56	4	61	5.39e-05	0.0	0.0	0.0	0.0	0.0	2.15e-03	1.86e-03	2.15e-03	1.86e-03	1.60e-05
		62	4.04e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.36e-03	1.37e-03	1.62e-03	5.33e-05
		83	4.04e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.36e-03	1.37e-03	1.62e-03	-5.33e-05
		82	5.39e-05	0.0	0.0	0.0	0.0	0.0	2.15e-03	1.86e-03	2.15e-03	1.86e-03	-1.60e-05
57	1	62	5.80e-05	0.0	0.0	0.0	0.0	0.0	2.33e-03	1.97e-03	1.99e-03	2.32e-03	6.90e-05
		63	4.93e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	-5.31e-05	-5.08e-05	1.82e-03	-6.57e-05
		84	4.93e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	-5.31e-05	-5.08e-05	1.82e-03	6.57e-05
		83	5.80e-05	0.0	0.0	0.0	0.0	0.0	2.33e-03	1.97e-03	1.99e-03	2.32e-03	-6.90e-05
57	2	62	4.08e-05	0.0	0.0	0.0	0.0	0.0	1.64e-03	1.39e-03	1.40e-03	1.63e-03	4.86e-05
		63	3.47e-05	0.0	0.0	0.0	0.0	0.0	1.28e-03	-3.74e-05	-3.57e-05	1.28e-03	-4.63e-05
		84	3.47e-05	0.0	0.0	0.0	0.0	0.0	1.28e-03	-3.74e-05	-3.57e-05	1.28e-03	4.63e-05
		83	4.08e-05	0.0	0.0	0.0	0.0	0.0	1.64e-03	1.39e-03	1.40e-03	1.63e-03	-4.86e-05
57	3	62	4.05e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.38e-03	1.39e-03	1.62e-03	4.82e-05
		63	3.44e-05	0.0	0.0	0.0	0.0	0.0	1.27e-03	-3.71e-05	-3.54e-05	1.27e-03	-4.59e-05
		84	3.44e-05	0.0	0.0	0.0	0.0	0.0	1.27e-03	-3.71e-05	-3.54e-05	1.27e-03	4.59e-05
		83	4.05e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.38e-03	1.39e-03	1.62e-03	-4.82e-05
57	4	62	4.04e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.37e-03	1.38e-03	1.62e-03	4.81e-05
		63	3.43e-05	0.0	0.0	0.0	0.0	0.0	1.27e-03	-3.70e-05	-3.54e-05	1.27e-03	-4.58e-05
		84	3.43e-05	0.0	0.0	0.0	0.0	0.0	1.27e-03	-3.70e-05	-3.54e-05	1.27e-03	4.58e-05
		83	4.04e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.37e-03	1.38e-03	1.62e-03	-4.81e-05
58	1	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	2	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	3	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	4	64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	1	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	2	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	3	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	4	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	1	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	2	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	3	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	4	66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	1	67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	2	67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	3	67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	4	67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	1	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	2	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	3	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	4	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	1	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	2	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	3	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	4	69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	1	71	5.15e-05	0.0	0.0	0.0	0.0	0.0	1.90e-03	-6.16e-05	-5.75e-05	1.90e-03	8.94e-05
		72	5.75e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.76e-03	1.77e-03	2.40e-03	6.52e-05

		93	4.33e-05	0.0	0.0	0.0	0.0	0.0	1.78e-03	1.41e-03	1.60e-03	1.59e-03	1.84e-04
		92	3.27e-05	0.0	0.0	0.0	0.0	0.0	1.21e-03	-3.31e-05	-3.31e-05	1.21e-03	1.92e-06
64	2	71	3.62e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	-4.33e-05	-4.05e-05	1.33e-03	6.29e-05
		72	4.04e-05	0.0	0.0	0.0	0.0	0.0	1.69e-03	1.24e-03	1.25e-03	1.68e-03	4.59e-05
		93	3.05e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	9.90e-04	1.12e-03	1.12e-03	1.30e-04
		92	2.30e-05	0.0	0.0	0.0	0.0	0.0	8.52e-04	-2.33e-05	-2.33e-05	8.52e-04	1.52e-06
64	3	71	3.59e-05	0.0	0.0	0.0	0.0	0.0	1.33e-03	-4.30e-05	-4.01e-05	1.32e-03	6.24e-05
		72	4.01e-05	0.0	0.0	0.0	0.0	0.0	1.68e-03	1.23e-03	1.23e-03	1.67e-03	4.55e-05
		93	3.02e-05	0.0	0.0	0.0	0.0	0.0	1.24e-03	9.82e-04	1.11e-03	1.11e-03	1.29e-04
		92	2.28e-05	0.0	0.0	0.0	0.0	0.0	8.45e-04	-2.31e-05	-2.31e-05	8.45e-04	1.50e-06
64	4	71	3.58e-05	0.0	0.0	0.0	0.0	0.0	1.32e-03	-4.29e-05	-4.00e-05	1.32e-03	6.23e-05
		72	4.00e-05	0.0	0.0	0.0	0.0	0.0	1.67e-03	1.23e-03	1.23e-03	1.67e-03	4.54e-05
		93	3.01e-05	0.0	0.0	0.0	0.0	0.0	1.24e-03	9.80e-04	1.11e-03	1.11e-03	1.28e-04
		92	2.28e-05	0.0	0.0	0.0	0.0	0.0	8.43e-04	-2.30e-05	-2.30e-05	8.43e-04	1.50e-06
65	1	72	5.70e-05	0.0	0.0	0.0	0.0	0.0	2.39e-03	1.74e-03	1.74e-03	2.38e-03	3.18e-05
		73	6.95e-05	0.0	0.0	0.0	0.0	0.0	2.71e-03	2.49e-03	2.52e-03	2.68e-03	7.52e-05
		94	5.60e-05	0.0	0.0	0.0	0.0	0.0	2.30e-03	1.82e-03	2.29e-03	1.83e-03	7.27e-05
		93	4.38e-05	0.0	0.0	0.0	0.0	0.0	1.80e-03	1.41e-03	1.58e-03	1.64e-03	1.95e-04
65	2	72	4.01e-05	0.0	0.0	0.0	0.0	0.0	1.68e-03	1.22e-03	1.23e-03	1.68e-03	2.24e-05
		73	4.89e-05	0.0	0.0	0.0	0.0	0.0	1.91e-03	1.75e-03	1.77e-03	1.88e-03	5.30e-05
		94	3.93e-05	0.0	0.0	0.0	0.0	0.0	1.61e-03	1.28e-03	1.61e-03	1.28e-03	5.13e-05
		93	3.08e-05	0.0	0.0	0.0	0.0	0.0	1.27e-03	9.91e-04	1.11e-03	1.15e-03	1.37e-04
65	3	72	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.66e-03	1.21e-03	1.22e-03	1.66e-03	2.22e-05
		73	4.85e-05	0.0	0.0	0.0	0.0	0.0	1.89e-03	1.74e-03	1.76e-03	1.87e-03	5.25e-05
		94	3.90e-05	0.0	0.0	0.0	0.0	0.0	1.60e-03	1.27e-03	1.59e-03	1.27e-03	5.09e-05
		93	3.05e-05	0.0	0.0	0.0	0.0	0.0	1.26e-03	9.82e-04	1.10e-03	1.14e-03	1.36e-04
65	4	72	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.66e-03	1.21e-03	1.21e-03	1.66e-03	2.22e-05
		73	4.84e-05	0.0	0.0	0.0	0.0	0.0	1.89e-03	1.73e-03	1.75e-03	1.86e-03	5.24e-05
		94	3.89e-05	0.0	0.0	0.0	0.0	0.0	1.60e-03	1.26e-03	1.59e-03	1.27e-03	5.08e-05
		93	3.05e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	9.80e-04	1.10e-03	1.14e-03	1.36e-04
66	1	73	6.93e-05	0.0	0.0	0.0	0.0	0.0	2.68e-03	2.51e-03	2.51e-03	2.68e-03	2.97e-05
		74	7.40e-05	0.0	0.0	0.0	0.0	0.0	2.82e-03	2.73e-03	2.75e-03	2.80e-03	3.76e-05
		95	6.09e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.90e-03	2.54e-03	1.90e-03	3.46e-05
		94	5.62e-05	0.0	0.0	0.0	0.0	0.0	2.32e-03	1.80e-03	2.29e-03	1.82e-03	1.16e-04
66	2	73	4.87e-05	0.0	0.0	0.0	0.0	0.0	1.89e-03	1.76e-03	1.76e-03	1.88e-03	2.09e-05
		74	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.92e-03	1.93e-03	1.97e-03	2.65e-05
		95	4.28e-05	0.0	0.0	0.0	0.0	0.0	1.78e-03	1.33e-03	1.78e-03	1.33e-03	2.45e-05
		94	3.95e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.26e-03	1.61e-03	1.28e-03	8.19e-05
66	3	73	4.83e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.75e-03	1.75e-03	1.87e-03	2.07e-05
		74	5.16e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.90e-03	1.92e-03	1.95e-03	2.63e-05
		95	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.77e-03	1.32e-03	2.43e-05
		94	3.92e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.25e-03	1.60e-03	1.27e-03	8.12e-05
66	4	73	4.82e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.74e-03	1.75e-03	1.86e-03	2.07e-05
		74	5.15e-05	0.0	0.0	0.0	0.0	0.0	1.96e-03	1.90e-03	1.91e-03	1.95e-03	2.62e-05
		95	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.76e-03	1.32e-03	2.42e-05
		94	3.91e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.25e-03	1.60e-03	1.27e-03	8.10e-05
67	1	74	7.39e-05	0.0	0.0	0.0	0.0	0.0	2.80e-03	2.74e-03	2.75e-03	2.80e-03	1.23e-05
		75	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.84e-03	2.74e-03	2.75e-03	2.83e-03	2.03e-05
		96	6.12e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.91e-03	2.54e-03	1.91e-03	1.02e-05
		95	6.10e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.89e-03	2.54e-03	1.89e-03	6.54e-05
67	2	74	5.20e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.93e-03	1.93e-03	1.97e-03	8.72e-06
		75	5.23e-05	0.0	0.0	0.0	0.0	0.0	2.00e-03	1.93e-03	1.93e-03	1.99e-03	1.44e-05
		96	4.30e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.35e-03	1.79e-03	1.35e-03	7.34e-06
		95	4.29e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.33e-03	1.78e-03	1.33e-03	4.62e-05
67	3	74	5.16e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.91e-03	1.92e-03	1.95e-03	8.64e-06
		75	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.91e-03	1.91e-03	1.98e-03	1.42e-05
		96	4.27e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.34e-03	1.77e-03	1.34e-03	7.26e-06
		95	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.77e-03	1.32e-03	4.58e-05
67	4	74	5.15e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	1.91e-03	1.91e-03	1.95e-03	8.62e-06
		75	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.91e-03	1.91e-03	1.97e-03	1.42e-05
		96	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	7.24e-06
		95	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.31e-03	1.76e-03	1.32e-03	4.57e-05
68	1	75	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.75e-03	2.75e-03	2.83e-03	0.0
		76	7.38e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.69e-03	2.69e-03	2.83e-03	1.09e-05
		97	6.03e-05	0.0	0.0	0.0	0.0	0.0	2.49e-03	1.91e-03	2.49e-03	1.91e-03	-9.94e-06
		96	6.12e-05	0.0	0.0	0.0	0.0	0.0	2.55e-03	1.91e-03	2.54e-03	1.91e-03	3.63e-05
68	2	75	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.93e-03	1.93e-03	1.99e-03	0.0
		76	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.89e-03	1.89e-03	1.99e-03	7.72e-06
		97	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	1.35e-03	1.75e-03	1.35e-03	-6.84e-06

		96	4.30e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.34e-03	1.79e-03	1.35e-03	2.57e-05
68	3	75	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.91e-03	1.91e-03	1.98e-03	0.0
		76	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.88e-03	1.88e-03	1.98e-03	7.65e-06
		97	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-6.81e-06
		96	4.27e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	2.55e-05
68	4	75	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.91e-03	1.91e-03	1.97e-03	0.0
		76	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.87e-03	1.87e-03	1.97e-03	7.63e-06
		97	4.19e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	1.33e-03	1.73e-03	1.33e-03	-6.80e-06
		96	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	2.54e-05
69	1	76	7.38e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.69e-03	2.69e-03	2.83e-03	-9.86e-06
		77	7.37e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.70e-03	2.70e-03	2.83e-03	4.36e-06
		98	6.04e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	1.91e-03	2.50e-03	1.91e-03	-3.00e-05
		97	6.03e-05	0.0	0.0	0.0	0.0	0.0	2.49e-03	1.91e-03	2.49e-03	1.91e-03	1.46e-05
69	2	76	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.89e-03	1.89e-03	1.99e-03	-6.85e-06
		77	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.90e-03	1.90e-03	1.99e-03	3.12e-06
		98	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.34e-03	1.76e-03	1.34e-03	-2.09e-05
		97	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	1.35e-03	1.75e-03	1.35e-03	1.04e-05
69	3	76	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.88e-03	1.88e-03	1.98e-03	-6.80e-06
		77	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	3.08e-06
		98	4.21e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-2.08e-05
		97	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	1.03e-05
69	4	76	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.87e-03	1.87e-03	1.97e-03	-6.79e-06
		77	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	3.08e-06
		98	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-2.07e-05
		97	4.19e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	1.33e-03	1.73e-03	1.33e-03	1.03e-05
70	1	77	7.37e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.70e-03	2.70e-03	2.83e-03	-1.61e-05
		78	7.49e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.79e-03	2.79e-03	2.83e-03	-2.40e-06
		99	6.23e-05	0.0	0.0	0.0	0.0	0.0	2.61e-03	1.90e-03	2.60e-03	1.90e-03	-4.15e-05
		98	6.04e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	1.91e-03	2.50e-03	1.91e-03	-6.76e-06
70	2	77	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.90e-03	1.90e-03	1.99e-03	-1.12e-05
		78	5.27e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.97e-03	1.97e-03	1.99e-03	-1.58e-06
		99	4.38e-05	0.0	0.0	0.0	0.0	0.0	1.83e-03	1.34e-03	1.83e-03	1.34e-03	-2.92e-05
		98	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.34e-03	1.76e-03	1.34e-03	-4.56e-06
70	3	77	5.14e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	-1.12e-05
		78	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.95e-03	1.95e-03	1.97e-03	-1.59e-06
		99	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.33e-03	1.82e-03	1.33e-03	-2.89e-05
		98	4.21e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-4.55e-06
70	4	77	5.13e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.88e-03	1.88e-03	1.97e-03	-1.11e-05
		78	5.22e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.95e-03	1.95e-03	1.97e-03	-1.59e-06
		99	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.81e-03	1.32e-03	1.81e-03	1.33e-03	-2.89e-05
		98	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-4.55e-06
71	1	78	7.49e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	2.79e-03	2.79e-03	2.82e-03	-1.87e-05
		79	7.97e-05	0.0	0.0	0.0	0.0	0.0	3.10e-03	2.86e-03	3.10e-03	2.86e-03	-4.02e-06
		100	6.84e-05	0.0	0.0	0.0	0.0	0.0	2.91e-03	1.92e-03	2.91e-03	1.93e-03	-5.32e-05
		99	6.22e-05	0.0	0.0	0.0	0.0	0.0	2.60e-03	1.90e-03	2.60e-03	1.90e-03	-2.10e-05
71	2	78	5.27e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	1.96e-03	1.97e-03	1.99e-03	-1.32e-05
		79	5.61e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	2.01e-03	2.18e-03	2.01e-03	-2.82e-06
		100	4.81e-05	0.0	0.0	0.0	0.0	0.0	2.05e-03	1.35e-03	2.04e-03	1.36e-03	-3.74e-05
		99	4.38e-05	0.0	0.0	0.0	0.0	0.0	1.83e-03	1.34e-03	1.83e-03	1.34e-03	-1.47e-05
71	3	78	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	1.94e-03	1.95e-03	1.97e-03	-1.30e-05
		79	5.56e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	-2.80e-06
		100	4.77e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.34e-03	2.03e-03	1.34e-03	-3.71e-05
		99	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.33e-03	1.82e-03	1.33e-03	-1.46e-05
71	4	78	5.22e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.94e-03	1.95e-03	1.97e-03	-1.30e-05
		79	5.55e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	-2.79e-06
		100	4.76e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.34e-03	2.02e-03	1.34e-03	-3.70e-05
		99	4.33e-05	0.0	0.0	0.0	0.0	0.0	1.81e-03	1.33e-03	1.81e-03	1.33e-03	-1.45e-05
72	1	79	7.97e-05	0.0	0.0	0.0	0.0	0.0	3.11e-03	2.86e-03	3.10e-03	2.86e-03	-2.56e-05
		80	8.40e-05	0.0	0.0	0.0	0.0	0.0	3.37e-03	2.87e-03	3.37e-03	2.87e-03	-8.20e-06
		101	7.39e-05	0.0	0.0	0.0	0.0	0.0	3.18e-03	1.94e-03	3.17e-03	1.94e-03	-6.78e-05
		100	6.83e-05	0.0	0.0	0.0	0.0	0.0	2.91e-03	1.93e-03	2.91e-03	1.93e-03	-2.78e-05
72	2	79	5.60e-05	0.0	0.0	0.0	0.0	0.0	2.18e-03	2.01e-03	2.18e-03	2.01e-03	-1.79e-05
		80	5.91e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	2.02e-03	2.37e-03	2.02e-03	-5.76e-06
		101	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	1.36e-03	2.23e-03	1.36e-03	-4.75e-05
		100	4.81e-05	0.0	0.0	0.0	0.0	0.0	2.04e-03	1.36e-03	2.04e-03	1.36e-03	-1.96e-05
72	3	79	5.56e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.99e-03	2.16e-03	1.99e-03	-1.78e-05
		80	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	-5.72e-06
		101	5.15e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	-4.72e-05
		100	4.77e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.35e-03	2.03e-03	1.35e-03	-1.94e-05

72	4	79	5.55e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.99e-03	2.16e-03	1.99e-03	-1.77e-05
		80	5.85e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	-5.70e-06
		101	5.14e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	-4.71e-05
		100	4.76e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.34e-03	2.02e-03	1.34e-03	-1.94e-05
73	1	80	8.40e-05	0.0	0.0	0.0	0.0	0.0	3.37e-03	2.87e-03	3.37e-03	2.87e-03	-3.18e-05
		81	8.42e-05	0.0	0.0	0.0	0.0	0.0	3.41e-03	2.82e-03	3.41e-03	2.82e-03	-1.77e-05
		102	7.46e-05	0.0	0.0	0.0	0.0	0.0	3.21e-03	1.91e-03	3.21e-03	1.91e-03	-7.98e-05
		101	7.39e-05	0.0	0.0	0.0	0.0	0.0	3.17e-03	1.94e-03	3.17e-03	1.94e-03	-3.88e-05
73	2	80	5.91e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	2.02e-03	2.37e-03	2.02e-03	-2.23e-05
		81	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.99e-03	2.40e-03	1.99e-03	-1.24e-05
		102	5.25e-05	0.0	0.0	0.0	0.0	0.0	2.26e-03	1.34e-03	2.26e-03	1.34e-03	-5.60e-05
		101	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	1.36e-03	2.23e-03	1.36e-03	-2.71e-05
73	3	80	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.35e-03	2.00e-03	-2.21e-05
		81	5.88e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	-1.23e-05
		102	5.21e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.33e-03	-5.56e-05
		101	5.15e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	-2.69e-05
73	4	80	5.85e-05	0.0	0.0	0.0	0.0	0.0	2.35e-03	2.00e-03	2.34e-03	2.00e-03	-2.20e-05
		81	5.86e-05	0.0	0.0	0.0	0.0	0.0	2.37e-03	1.97e-03	2.37e-03	1.97e-03	-1.23e-05
		102	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.23e-03	1.33e-03	-5.55e-05
		101	5.14e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	-2.69e-05
74	1	81	8.42e-05	0.0	0.0	0.0	0.0	0.0	3.41e-03	2.82e-03	3.41e-03	2.83e-03	-4.40e-05
		82	7.73e-05	0.0	0.0	0.0	0.0	0.0	3.08e-03	2.68e-03	3.08e-03	2.68e-03	-2.78e-05
		103	6.73e-05	0.0	0.0	0.0	0.0	0.0	2.88e-03	1.81e-03	2.87e-03	1.82e-03	-1.14e-04
		102	7.46e-05	0.0	0.0	0.0	0.0	0.0	3.21e-03	1.91e-03	3.21e-03	1.91e-03	-4.59e-05
74	2	81	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.40e-03	1.99e-03	2.40e-03	1.99e-03	-3.09e-05
		82	5.44e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.88e-03	2.17e-03	1.89e-03	-1.95e-05
		103	4.74e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.28e-03	2.02e-03	1.28e-03	-8.06e-05
		102	5.25e-05	0.0	0.0	0.0	0.0	0.0	2.26e-03	1.34e-03	2.26e-03	1.35e-03	-3.21e-05
74	3	81	5.88e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.38e-03	1.97e-03	-3.07e-05
		82	5.40e-05	0.0	0.0	0.0	0.0	0.0	2.15e-03	1.87e-03	2.15e-03	1.87e-03	-1.94e-05
		103	4.70e-05	0.0	0.0	0.0	0.0	0.0	2.01e-03	1.27e-03	2.01e-03	1.27e-03	-7.99e-05
		102	5.21e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.33e-03	-3.19e-05
74	4	81	5.87e-05	0.0	0.0	0.0	0.0	0.0	2.38e-03	1.97e-03	2.37e-03	1.97e-03	-3.06e-05
		82	5.39e-05	0.0	0.0	0.0	0.0	0.0	2.15e-03	1.86e-03	2.14e-03	1.87e-03	-1.93e-05
		103	4.69e-05	0.0	0.0	0.0	0.0	0.0	2.01e-03	1.26e-03	2.00e-03	1.27e-03	-7.97e-05
		102	5.19e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.23e-03	1.33e-03	-3.18e-05
75	1	82	7.76e-05	0.0	0.0	0.0	0.0	0.0	3.11e-03	2.67e-03	3.09e-03	2.68e-03	-7.83e-05
		83	5.78e-05	0.0	0.0	0.0	0.0	0.0	2.32e-03	1.96e-03	1.97e-03	2.32e-03	-3.18e-05
		104	4.63e-05	0.0	0.0	0.0	0.0	0.0	1.91e-03	1.49e-03	1.80e-03	1.59e-03	-1.81e-04
		103	6.70e-05	0.0	0.0	0.0	0.0	0.0	2.87e-03	1.82e-03	2.86e-03	1.83e-03	-6.44e-05
75	2	82	5.47e-05	0.0	0.0	0.0	0.0	0.0	2.19e-03	1.88e-03	2.18e-03	1.89e-03	-5.51e-05
		83	4.07e-05	0.0	0.0	0.0	0.0	0.0	1.64e-03	1.38e-03	1.38e-03	1.63e-03	-2.24e-05
		104	3.26e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	1.05e-03	1.27e-03	1.12e-03	-1.27e-04
		103	4.72e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.28e-03	2.02e-03	1.29e-03	-4.53e-05
75	3	82	5.42e-05	0.0	0.0	0.0	0.0	0.0	2.17e-03	1.86e-03	2.16e-03	1.87e-03	-5.46e-05
		83	4.03e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.37e-03	1.37e-03	1.62e-03	-2.22e-05
		104	3.23e-05	0.0	0.0	0.0	0.0	0.0	1.33e-03	1.04e-03	1.26e-03	1.11e-03	-1.26e-04
		103	4.68e-05	0.0	0.0	0.0	0.0	0.0	2.00e-03	1.27e-03	2.00e-03	1.28e-03	-4.50e-05
75	4	82	5.41e-05	0.0	0.0	0.0	0.0	0.0	2.16e-03	1.86e-03	2.15e-03	1.87e-03	-5.45e-05
		83	4.02e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.37e-03	1.37e-03	1.62e-03	-2.22e-05
		104	3.23e-05	0.0	0.0	0.0	0.0	0.0	1.33e-03	1.04e-03	1.26e-03	1.11e-03	-1.26e-04
		103	4.67e-05	0.0	0.0	0.0	0.0	0.0	2.00e-03	1.27e-03	1.99e-03	1.27e-03	-4.49e-05
76	1	83	5.83e-05	0.0	0.0	0.0	0.0	0.0	2.34e-03	1.99e-03	1.99e-03	2.33e-03	-5.58e-05
		84	4.88e-05	0.0	0.0	0.0	0.0	0.0	1.80e-03	-6.19e-05	-5.63e-05	1.79e-03	-1.02e-04
		105	3.08e-05	0.0	0.0	0.0	0.0	0.0	1.14e-03	-3.09e-05	-3.06e-05	1.14e-03	1.93e-05
		104	4.62e-05	0.0	0.0	0.0	0.0	0.0	1.91e-03	1.46e-03	1.82e-03	1.55e-03	-1.80e-04
76	2	83	4.10e-05	0.0	0.0	0.0	0.0	0.0	1.65e-03	1.40e-03	1.40e-03	1.64e-03	-3.92e-05
		84	3.44e-05	0.0	0.0	0.0	0.0	0.0	1.27e-03	-4.36e-05	-3.96e-05	1.26e-03	-7.21e-05
		105	2.17e-05	0.0	0.0	0.0	0.0	0.0	8.03e-04	-2.17e-05	-2.15e-05	8.03e-04	1.36e-05
		104	3.25e-05	0.0	0.0	0.0	0.0	0.0	1.35e-03	1.03e-03	1.29e-03	1.09e-03	-1.27e-04
76	3	83	4.07e-05	0.0	0.0	0.0	0.0	0.0	1.64e-03	1.39e-03	1.39e-03	1.63e-03	-3.89e-05
		84	3.41e-05	0.0	0.0	0.0	0.0	0.0	1.26e-03	-4.32e-05	-3.93e-05	1.25e-03	-7.15e-05
		105	2.15e-05	0.0	0.0	0.0	0.0	0.0	7.96e-04	-2.15e-05	-2.13e-05	7.96e-04	1.35e-05
		104	3.22e-05	0.0	0.0	0.0	0.0	0.0	1.34e-03	1.02e-03	1.27e-03	1.08e-03	-1.26e-04
76	4	83	4.06e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.38e-03	1.39e-03	1.63e-03	-3.88e-05
		84	3.40e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	-4.31e-05	-3.92e-05	1.25e-03	-7.14e-05
		105	2.15e-05	0.0	0.0	0.0	0.0	0.0	7.95e-04	-2.15e-05	-2.13e-05	7.94e-04	1.35e-05
		104	3.22e-05	0.0	0.0	0.0	0.0	0.0	1.33e-03	1.01e-03	1.27e-03	1.08e-03	-1.26e-04
77	1	85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	2	85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	3	85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	4	85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	1	86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	2	86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	3	86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	4	86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	1	87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	2	87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	3	87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	4	87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	1	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	2	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	3	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	4	88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	1	89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	2	89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	3	89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	4	89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	1	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	2	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	3	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	4	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	1	92	3.07e-05	0.0	0.0	0.0	0.0	0.0	9.98e-04	-2.63e-04	-2.09e-04	9.44e-04	2.53e-04
		93	4.80e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	1.57e-03	1.74e-03	1.79e-03	1.99e-04
		114	3.01e-05	0.0	0.0	0.0	0.0	0.0	9.70e-04	-2.67e-04	8.99e-04	-1.96e-04	2.87e-04
		113	1.09e-05	0.0	0.0	0.0	0.0	0.0	4.70e-04	1.99e-04	3.52e-04	3.17e-04	-1.34e-04
83	2	92	2.16e-05	0.0	0.0	0.0	0.0	0.0	7.02e-04	-1.85e-04	-1.47e-04	6.64e-04	1.78e-04
		93	3.38e-05	0.0	0.0	0.0	0.0	0.0	1.38e-03	1.10e-03	1.22e-03	1.26e-03	1.40e-04
		114	2.11e-05	0.0	0.0	0.0	0.0	0.0	6.82e-04	-1.88e-04	6.32e-04	-1.38e-04	2.02e-04
		113	7.66e-06	0.0	0.0	0.0	0.0	0.0	3.30e-04	1.41e-04	2.48e-04	2.23e-04	-9.42e-05
83	3	92	2.14e-05	0.0	0.0	0.0	0.0	0.0	6.96e-04	-1.83e-04	-1.46e-04	6.59e-04	1.77e-04
		93	3.35e-05	0.0	0.0	0.0	0.0	0.0	1.37e-03	1.09e-03	1.21e-03	1.25e-03	1.39e-04
		114	2.10e-05	0.0	0.0	0.0	0.0	0.0	6.76e-04	-1.86e-04	6.27e-04	-1.36e-04	2.01e-04
		113	7.60e-06	0.0	0.0	0.0	0.0	0.0	3.28e-04	1.39e-04	2.46e-04	2.21e-04	-9.34e-05
83	4	92	2.14e-05	0.0	0.0	0.0	0.0	0.0	6.94e-04	-1.83e-04	-1.46e-04	6.57e-04	1.77e-04
		93	3.34e-05	0.0	0.0	0.0	0.0	0.0	1.37e-03	1.09e-03	1.21e-03	1.25e-03	1.38e-04
		114	2.09e-05	0.0	0.0	0.0	0.0	0.0	6.75e-04	-1.86e-04	6.26e-04	-1.36e-04	2.00e-04
		113	7.58e-06	0.0	0.0	0.0	0.0	0.0	3.27e-04	1.39e-04	2.45e-04	2.21e-04	-9.32e-05
84	1	93	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.39e-03	1.53e-03	1.66e-03	1.89e-04
		94	5.65e-05	0.0	0.0	0.0	0.0	0.0	2.32e-03	1.82e-03	2.30e-03	1.84e-03	1.01e-04
		115	4.99e-05	0.0	0.0	0.0	0.0	0.0	1.85e-03	-3.98e-05	1.84e-03	-2.75e-05	1.52e-04
		114	3.20e-05	0.0	0.0	0.0	0.0	0.0	1.18e-03	-3.38e-05	1.18e-03	-3.38e-05	4.72e-06
84	2	93	3.05e-05	0.0	0.0	0.0	0.0	0.0	1.26e-03	9.78e-04	1.07e-03	1.16e-03	1.33e-04
		94	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.28e-03	1.62e-03	1.30e-03	7.09e-05
		115	3.51e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	-2.80e-05	1.29e-03	-1.94e-05	1.07e-04
		114	2.25e-05	0.0	0.0	0.0	0.0	0.0	8.32e-04	-2.38e-05	8.32e-04	-2.38e-05	3.55e-06
84	3	93	3.03e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	9.70e-04	1.06e-03	1.15e-03	1.32e-04
		94	3.94e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.27e-03	1.61e-03	1.28e-03	7.03e-05
		115	3.48e-05	0.0	0.0	0.0	0.0	0.0	1.29e-03	-2.78e-05	1.28e-03	-1.92e-05	1.06e-04
		114	2.23e-05	0.0	0.0	0.0	0.0	0.0	8.25e-04	-2.36e-05	8.25e-04	-2.36e-05	3.51e-06
84	4	93	3.02e-05	0.0	0.0	0.0	0.0	0.0	1.25e-03	9.68e-04	1.06e-03	1.15e-03	1.32e-04
		94	3.93e-05	0.0	0.0	0.0	0.0	0.0	1.62e-03	1.27e-03	1.60e-03	1.28e-03	7.01e-05
		115	3.47e-05	0.0	0.0	0.0	0.0	0.0	1.29e-03	-2.77e-05	1.28e-03	-1.92e-05	1.06e-04
		114	2.23e-05	0.0	0.0	0.0	0.0	0.0	8.23e-04	-2.35e-05	8.23e-04	-2.35e-05	3.50e-06
85	1	94	5.62e-05	0.0	0.0	0.0	0.0	0.0	2.32e-03	1.81e-03	2.28e-03	1.84e-03	1.20e-04
		95	6.09e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.89e-03	2.53e-03	1.90e-03	3.80e-05
		116	5.70e-05	0.0	0.0	0.0	0.0	0.0	2.13e-03	-1.61e-05	2.12e-03	-6.19e-06	1.46e-04
		115	5.04e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	-3.95e-05	1.87e-03	-3.87e-05	-3.78e-05
85	2	94	3.95e-05	0.0	0.0	0.0	0.0	0.0	1.63e-03	1.27e-03	1.61e-03	1.30e-03	8.48e-05
		95	4.28e-05	0.0	0.0	0.0	0.0	0.0	1.78e-03	1.33e-03	1.78e-03	1.33e-03	2.69e-05
		116	4.01e-05	0.0	0.0	0.0	0.0	0.0	1.50e-03	-1.13e-05	1.49e-03	-4.33e-06	1.03e-04
		115	3.54e-05	0.0	0.0	0.0	0.0	0.0	1.31e-03	-2.78e-05	1.31e-03	-2.73e-05	-2.64e-05
85	3	94	3.92e-05	0.0	0.0	0.0	0.0	0.0	1.61e-03	1.26e-03	1.59e-03	1.29e-03	8.41e-05
		95	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.77e-03	1.32e-03	2.66e-05
		116	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-1.13e-05	1.48e-03	-4.30e-06	1.02e-04

		115	3.51e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	-2.75e-05	1.30e-03	-2.70e-05	-2.62e-05
85	4	94	3.91e-05	0.0	0.0	0.0	0.0	0.0	1.61e-03	1.26e-03	1.59e-03	1.28e-03	8.39e-05
		95	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.32e-03	1.76e-03	1.32e-03	2.66e-05
		116	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.48e-03	-1.12e-05	1.48e-03	-4.29e-06	1.02e-04
		115	3.50e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	-2.75e-05	1.30e-03	-2.70e-05	-2.61e-05
86	1	95	6.11e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.90e-03	2.53e-03	1.91e-03	7.83e-05
		96	6.11e-05	0.0	0.0	0.0	0.0	0.0	2.54e-03	1.91e-03	2.54e-03	1.91e-03	3.00e-06
		117	5.72e-05	0.0	0.0	0.0	0.0	0.0	2.14e-03	-5.67e-06	2.13e-03	3.50e-06	1.40e-04
		116	5.70e-05	0.0	0.0	0.0	0.0	0.0	2.13e-03	-2.41e-05	2.12e-03	-2.22e-05	-6.48e-05
86	2	95	4.29e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.33e-03	1.78e-03	1.34e-03	5.52e-05
		96	4.30e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.35e-03	1.79e-03	1.35e-03	2.25e-06
		117	4.02e-05	0.0	0.0	0.0	0.0	0.0	1.51e-03	-3.98e-06	1.50e-03	2.50e-06	9.87e-05
		116	4.00e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-1.69e-05	1.49e-03	-1.56e-05	-4.54e-05
86	3	95	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.77e-03	1.33e-03	5.47e-05
		96	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	2.21e-06
		117	3.99e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-3.95e-06	1.49e-03	2.47e-06	9.78e-05
		116	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.48e-03	-1.68e-05	1.48e-03	-1.55e-05	-4.50e-05
86	4	95	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.32e-03	1.76e-03	1.33e-03	5.46e-05
		96	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.33e-03	2.20e-06
		117	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-3.94e-06	1.48e-03	2.46e-06	9.76e-05
		116	3.96e-05	0.0	0.0	0.0	0.0	0.0	1.48e-03	-1.68e-05	1.48e-03	-1.54e-05	-4.50e-05
87	1	96	6.12e-05	0.0	0.0	0.0	0.0	0.0	2.55e-03	1.92e-03	2.54e-03	1.92e-03	5.22e-05
		97	6.02e-05	0.0	0.0	0.0	0.0	0.0	2.49e-03	1.91e-03	2.49e-03	1.91e-03	-2.37e-05
		118	5.57e-05	0.0	0.0	0.0	0.0	0.0	2.09e-03	1.17e-06	2.08e-03	8.44e-06	1.23e-04
		117	5.71e-05	0.0	0.0	0.0	0.0	0.0	2.14e-03	-1.12e-05	2.13e-03	-7.68e-06	-8.66e-05
87	2	96	4.30e-05	0.0	0.0	0.0	0.0	0.0	1.79e-03	1.35e-03	1.79e-03	1.35e-03	3.69e-05
		97	4.23e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	1.34e-03	1.75e-03	1.34e-03	-1.66e-05
		118	3.91e-05	0.0	0.0	0.0	0.0	0.0	1.47e-03	0.0	1.46e-03	5.99e-06	8.66e-05
		117	4.01e-05	0.0	0.0	0.0	0.0	0.0	1.50e-03	-7.83e-06	1.50e-03	-5.38e-06	-6.08e-05
87	3	96	4.27e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.34e-03	1.77e-03	1.34e-03	3.66e-05
		97	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-1.64e-05
		118	3.88e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	0.0	1.45e-03	5.93e-06	8.59e-05
		117	3.98e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-7.77e-06	1.49e-03	-5.34e-06	-6.03e-05
87	4	96	4.26e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	1.33e-03	1.77e-03	1.34e-03	3.65e-05
		97	4.19e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	1.33e-03	1.73e-03	1.33e-03	-1.64e-05
		118	3.87e-05	0.0	0.0	0.0	0.0	0.0	1.45e-03	0.0	1.45e-03	5.92e-06	8.57e-05
		117	3.97e-05	0.0	0.0	0.0	0.0	0.0	1.49e-03	-7.76e-06	1.48e-03	-5.33e-06	-6.02e-05
88	1	97	6.03e-05	0.0	0.0	0.0	0.0	0.0	2.49e-03	1.91e-03	2.49e-03	1.92e-03	2.94e-05
		98	6.04e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	1.90e-03	2.50e-03	1.91e-03	-4.87e-05
		119	5.58e-05	0.0	0.0	0.0	0.0	0.0	2.09e-03	4.88e-06	2.09e-03	9.32e-06	9.62e-05
		118	5.57e-05	0.0	0.0	0.0	0.0	0.0	2.09e-03	-3.75e-06	2.08e-03	2.33e-06	-1.13e-04
88	2	97	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	1.35e-03	1.75e-03	1.35e-03	2.08e-05
		98	4.24e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.34e-03	1.76e-03	1.34e-03	-3.41e-05
		119	3.92e-05	0.0	0.0	0.0	0.0	0.0	1.47e-03	3.47e-06	1.47e-03	6.61e-06	6.78e-05
		118	3.92e-05	0.0	0.0	0.0	0.0	0.0	1.47e-03	-2.59e-06	1.46e-03	1.68e-06	-7.91e-05
88	3	97	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.34e-03	1.74e-03	1.34e-03	2.06e-05
		98	4.21e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-3.38e-05
		119	3.89e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	3.44e-06	1.46e-03	6.55e-06	6.72e-05
		118	3.88e-05	0.0	0.0	0.0	0.0	0.0	1.45e-03	-2.58e-06	1.45e-03	1.66e-06	-7.85e-05
88	4	97	4.19e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	1.33e-03	1.73e-03	1.33e-03	2.06e-05
		98	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	-3.38e-05
		119	3.88e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	3.43e-06	1.45e-03	6.53e-06	6.71e-05
		118	3.88e-05	0.0	0.0	0.0	0.0	0.0	1.45e-03	-2.57e-06	1.45e-03	1.65e-06	-7.83e-05
89	1	98	6.04e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	1.91e-03	2.50e-03	1.91e-03	4.65e-06
		99	6.22e-05	0.0	0.0	0.0	0.0	0.0	2.61e-03	1.89e-03	2.60e-03	1.90e-03	-7.00e-05
		120	5.89e-05	0.0	0.0	0.0	0.0	0.0	2.22e-03	1.36e-05	2.21e-03	1.58e-05	7.00e-05
		119	5.59e-05	0.0	0.0	0.0	0.0	0.0	2.09e-03	-6.35e-06	2.08e-03	3.59e-06	-1.44e-04
89	2	98	4.25e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	1.35e-03	1.76e-03	1.35e-03	3.54e-06
		99	4.38e-05	0.0	0.0	0.0	0.0	0.0	1.84e-03	1.33e-03	1.83e-03	1.34e-03	-4.90e-05
		120	4.15e-05	0.0	0.0	0.0	0.0	0.0	1.56e-03	9.24e-06	1.56e-03	1.08e-05	4.93e-05
		119	3.93e-05	0.0	0.0	0.0	0.0	0.0	1.47e-03	-4.24e-06	1.47e-03	2.74e-06	-1.01e-04
89	3	98	4.21e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	3.47e-06
		99	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.32e-03	1.82e-03	1.32e-03	-4.86e-05
		120	4.11e-05	0.0	0.0	0.0	0.0	0.0	1.55e-03	9.21e-06	1.54e-03	1.08e-05	4.89e-05
		119	3.90e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	-4.24e-06	1.45e-03	2.69e-06	-1.00e-04
89	4	98	4.20e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	1.33e-03	1.74e-03	1.33e-03	3.45e-06
		99	4.33e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.32e-03	1.81e-03	1.32e-03	-4.85e-05
		120	4.10e-05	0.0	0.0	0.0	0.0	0.0	1.54e-03	9.20e-06	1.54e-03	1.08e-05	4.88e-05
		119	3.89e-05	0.0	0.0	0.0	0.0	0.0	1.46e-03	-4.24e-06	1.45e-03	2.67e-06	-1.00e-04

90	1	99	6.21e-05	0.0	0.0	0.0	0.0	0.0	2.60e-03	1.89e-03	2.60e-03	1.89e-03	-7.99e-06
		100	6.85e-05	0.0	0.0	0.0	0.0	0.0	2.92e-03	1.93e-03	2.91e-03	1.94e-03	-7.51e-05
		121	6.68e-05	0.0	0.0	0.0	0.0	0.0	2.50e-03	-1.18e-05	2.50e-03	-1.08e-05	4.86e-05
		120	5.93e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	7.91e-06	2.22e-03	2.10e-05	-1.70e-04
90	2	99	4.37e-05	0.0	0.0	0.0	0.0	0.0	1.83e-03	1.33e-03	1.83e-03	1.33e-03	-5.65e-06
		100	4.82e-05	0.0	0.0	0.0	0.0	0.0	2.05e-03	1.36e-03	2.05e-03	1.36e-03	-5.29e-05
		121	4.70e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	-7.98e-06	1.76e-03	-7.31e-06	3.42e-05
		120	4.17e-05	0.0	0.0	0.0	0.0	0.0	1.57e-03	5.21e-06	1.56e-03	1.44e-05	-1.20e-04
90	3	99	4.34e-05	0.0	0.0	0.0	0.0	0.0	1.82e-03	1.32e-03	1.81e-03	1.32e-03	-5.60e-06
		100	4.78e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.35e-03	2.03e-03	1.35e-03	-5.25e-05
		121	4.66e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	-7.95e-06	1.74e-03	-7.29e-06	3.39e-05
		120	4.14e-05	0.0	0.0	0.0	0.0	0.0	1.55e-03	5.22e-06	1.55e-03	1.43e-05	-1.19e-04
90	4	99	4.33e-05	0.0	0.0	0.0	0.0	0.0	1.81e-03	1.32e-03	1.81e-03	1.32e-03	-5.59e-06
		100	4.77e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.34e-03	2.02e-03	1.35e-03	-5.24e-05
		121	4.65e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	-7.95e-06	1.74e-03	-7.29e-06	3.39e-05
		120	4.13e-05	0.0	0.0	0.0	0.0	0.0	1.55e-03	5.22e-06	1.54e-03	1.43e-05	-1.18e-04
91	1	100	6.83e-05	0.0	0.0	0.0	0.0	0.0	2.91e-03	1.93e-03	2.91e-03	1.93e-03	-2.70e-05
		101	7.40e-05	0.0	0.0	0.0	0.0	0.0	3.18e-03	1.94e-03	3.17e-03	1.95e-03	-8.47e-05
		122	7.43e-05	0.0	0.0	0.0	0.0	0.0	2.78e-03	-2.22e-05	2.78e-03	-2.17e-05	3.74e-05
		121	6.73e-05	0.0	0.0	0.0	0.0	0.0	2.52e-03	-7.68e-06	2.51e-03	5.44e-06	-1.82e-04
91	2	100	4.80e-05	0.0	0.0	0.0	0.0	0.0	2.04e-03	1.35e-03	2.04e-03	1.36e-03	-1.89e-05
		101	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	1.37e-03	2.23e-03	1.37e-03	-5.95e-05
		122	5.23e-05	0.0	0.0	0.0	0.0	0.0	1.95e-03	-1.55e-05	1.95e-03	-1.51e-05	2.65e-05
		121	4.73e-05	0.0	0.0	0.0	0.0	0.0	1.77e-03	-5.33e-06	1.76e-03	3.91e-06	-1.28e-04
91	3	100	4.76e-05	0.0	0.0	0.0	0.0	0.0	2.03e-03	1.34e-03	2.03e-03	1.34e-03	-1.88e-05
		101	5.16e-05	0.0	0.0	0.0	0.0	0.0	2.22e-03	1.35e-03	2.21e-03	1.36e-03	-5.90e-05
		122	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.94e-03	-1.54e-05	1.94e-03	-1.50e-05	2.62e-05
		121	4.69e-05	0.0	0.0	0.0	0.0	0.0	1.76e-03	-5.30e-06	1.75e-03	3.86e-06	-1.27e-04
91	4	100	4.75e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.34e-03	2.02e-03	1.34e-03	-1.88e-05
		101	5.15e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.36e-03	-5.89e-05
		122	5.17e-05	0.0	0.0	0.0	0.0	0.0	1.93e-03	-1.53e-05	1.93e-03	-1.50e-05	2.62e-05
		121	4.68e-05	0.0	0.0	0.0	0.0	0.0	1.75e-03	-5.29e-06	1.74e-03	3.85e-06	-1.26e-04
92	1	101	7.39e-05	0.0	0.0	0.0	0.0	0.0	3.18e-03	1.94e-03	3.17e-03	1.94e-03	-4.44e-05
		102	7.46e-05	0.0	0.0	0.0	0.0	0.0	3.21e-03	1.91e-03	3.20e-03	1.92e-03	-9.15e-05
		123	7.59e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	-3.19e-05	2.83e-03	-3.12e-05	4.30e-05
		122	7.44e-05	0.0	0.0	0.0	0.0	0.0	2.78e-03	-2.04e-05	2.77e-03	-9.13e-06	-1.77e-04
92	2	101	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.23e-03	1.36e-03	2.23e-03	1.36e-03	-3.10e-05
		102	5.25e-05	0.0	0.0	0.0	0.0	0.0	2.26e-03	1.34e-03	2.26e-03	1.35e-03	-6.41e-05
		123	5.35e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	-2.27e-05	1.99e-03	-2.23e-05	3.03e-05
		122	5.24e-05	0.0	0.0	0.0	0.0	0.0	1.96e-03	-1.41e-05	1.95e-03	-6.12e-06	-1.25e-04
92	3	101	5.16e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	-3.07e-05
		102	5.21e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.34e-03	-6.37e-05
		123	5.30e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	-2.25e-05	1.98e-03	-2.20e-05	3.01e-05
		122	5.19e-05	0.0	0.0	0.0	0.0	0.0	1.94e-03	-1.40e-05	1.93e-03	-6.11e-06	-1.24e-04
92	4	101	5.15e-05	0.0	0.0	0.0	0.0	0.0	2.21e-03	1.35e-03	2.21e-03	1.35e-03	-3.07e-05
		102	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.23e-03	1.33e-03	-6.35e-05
		123	5.29e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	-2.24e-05	1.97e-03	-2.20e-05	3.00e-05
		122	5.18e-05	0.0	0.0	0.0	0.0	0.0	1.94e-03	-1.40e-05	1.93e-03	-6.11e-06	-1.24e-04
93	1	102	7.46e-05	0.0	0.0	0.0	0.0	0.0	3.21e-03	1.90e-03	3.21e-03	1.91e-03	-5.75e-05
		103	6.72e-05	0.0	0.0	0.0	0.0	0.0	2.87e-03	1.84e-03	2.86e-03	1.85e-03	-1.03e-04
		124	6.68e-05	0.0	0.0	0.0	0.0	0.0	2.47e-03	-6.03e-05	2.47e-03	-5.94e-05	4.78e-05
		123	7.57e-05	0.0	0.0	0.0	0.0	0.0	2.83e-03	-2.04e-05	2.82e-03	-1.26e-05	-1.49e-04
93	2	102	5.25e-05	0.0	0.0	0.0	0.0	0.0	2.26e-03	1.34e-03	2.26e-03	1.34e-03	-4.03e-05
		103	4.73e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.29e-03	2.02e-03	1.30e-03	-7.26e-05
		124	4.71e-05	0.0	0.0	0.0	0.0	0.0	1.74e-03	-4.25e-05	1.74e-03	-4.19e-05	3.37e-05
		123	5.33e-05	0.0	0.0	0.0	0.0	0.0	1.99e-03	-1.45e-05	1.99e-03	-8.97e-06	-1.05e-04
93	3	102	5.21e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.33e-03	-4.00e-05
		103	4.69e-05	0.0	0.0	0.0	0.0	0.0	2.01e-03	1.28e-03	2.00e-03	1.29e-03	-7.20e-05
		124	4.67e-05	0.0	0.0	0.0	0.0	0.0	1.73e-03	-4.22e-05	1.73e-03	-4.15e-05	3.34e-05
		123	5.29e-05	0.0	0.0	0.0	0.0	0.0	1.98e-03	-1.43e-05	1.97e-03	-8.87e-06	-1.04e-04
93	4	102	5.20e-05	0.0	0.0	0.0	0.0	0.0	2.24e-03	1.33e-03	2.24e-03	1.33e-03	-3.99e-05
		103	4.68e-05	0.0	0.0	0.0	0.0	0.0	2.00e-03	1.28e-03	1.99e-03	1.29e-03	-7.19e-05
		124	4.66e-05	0.0	0.0	0.0	0.0	0.0	1.72e-03	-4.21e-05	1.72e-03	-4.14e-05	3.33e-05
		123	5.28e-05	0.0	0.0	0.0	0.0	0.0	1.97e-03	-1.43e-05	1.97e-03	-8.85e-06	-1.04e-04
94	1	103	6.76e-05	0.0	0.0	0.0	0.0	0.0	2.89e-03	1.84e-03	2.88e-03	1.85e-03	-9.84e-05
		104	4.56e-05	0.0	0.0	0.0	0.0	0.0	1.87e-03	1.49e-03	1.76e-03	1.60e-03	-1.73e-04
		125	3.79e-05	0.0	0.0	0.0	0.0	0.0	1.42e-03	-1.22e-05	1.41e-03	-1.10e-05	4.14e-05
		124	6.62e-05	0.0	0.0	0.0	0.0	0.0	2.45e-03	-6.30e-05	2.44e-03	-5.83e-05	-1.08e-04
94	2	103	4.76e-05	0.0	0.0	0.0	0.0	0.0	2.04e-03	1.30e-03	2.03e-03	1.30e-03	-6.93e-05

		104	3.21e-05	0.0	0.0	0.0	0.0	0.0	1.32e-03	1.05e-03	1.24e-03	1.13e-03	-1.22e-04
		125	2.67e-05	0.0	0.0	0.0	0.0	0.0	9.97e-04	-8.56e-06	9.96e-04	-7.72e-06	2.91e-05
		124	4.66e-05	0.0	0.0	0.0	0.0	0.0	1.72e-03	-4.45e-05	1.72e-03	-4.12e-05	-7.59e-05
94	3	103	4.72e-05	0.0	0.0	0.0	0.0	0.0	2.02e-03	1.29e-03	2.01e-03	1.29e-03	-6.87e-05
		104	3.18e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	1.04e-03	1.23e-03	1.12e-03	-1.21e-04
		125	2.65e-05	0.0	0.0	0.0	0.0	0.0	9.89e-04	-8.50e-06	9.88e-04	-7.66e-06	2.89e-05
		124	4.62e-05	0.0	0.0	0.0	0.0	0.0	1.71e-03	-4.41e-05	1.71e-03	-4.08e-05	-7.53e-05
94	4	103	4.71e-05	0.0	0.0	0.0	0.0	0.0	2.01e-03	1.28e-03	2.01e-03	1.29e-03	-6.86e-05
		104	3.18e-05	0.0	0.0	0.0	0.0	0.0	1.30e-03	1.04e-03	1.22e-03	1.11e-03	-1.21e-04
		125	2.64e-05	0.0	0.0	0.0	0.0	0.0	9.87e-04	-8.49e-06	9.86e-04	-7.65e-06	2.88e-05
		124	4.61e-05	0.0	0.0	0.0	0.0	0.0	1.71e-03	-4.40e-05	1.70e-03	-4.07e-05	-7.51e-05
95	1	104	5.05e-05	0.0	0.0	0.0	0.0	0.0	2.06e-03	1.66e-03	1.97e-03	1.76e-03	-1.70e-04
		105	2.90e-05	0.0	0.0	0.0	0.0	0.0	9.29e-04	-2.69e-04	-2.05e-04	8.65e-04	-2.68e-04
		126	1.23e-05	0.0	0.0	0.0	0.0	0.0	5.25e-04	1.77e-04	3.43e-04	3.60e-04	1.74e-04
		125	3.52e-05	0.0	0.0	0.0	0.0	0.0	1.18e-03	-2.47e-04	1.13e-03	-2.00e-04	-2.54e-04
95	2	104	3.56e-05	0.0	0.0	0.0	0.0	0.0	1.45e-03	1.17e-03	1.39e-03	1.24e-03	-1.20e-04
		105	2.04e-05	0.0	0.0	0.0	0.0	0.0	6.54e-04	-1.89e-04	-1.44e-04	6.09e-04	-1.89e-04
		126	8.70e-06	0.0	0.0	0.0	0.0	0.0	3.70e-04	1.24e-04	2.41e-04	2.53e-04	1.23e-04
		125	2.48e-05	0.0	0.0	0.0	0.0	0.0	8.31e-04	-1.74e-04	7.98e-04	-1.41e-04	-1.79e-04
95	3	104	3.53e-05	0.0	0.0	0.0	0.0	0.0	1.44e-03	1.16e-03	1.37e-03	1.22e-03	-1.19e-04
		105	2.02e-05	0.0	0.0	0.0	0.0	0.0	6.48e-04	-1.87e-04	-1.43e-04	6.04e-04	-1.87e-04
		126	8.62e-06	0.0	0.0	0.0	0.0	0.0	3.67e-04	1.23e-04	2.39e-04	2.51e-04	1.22e-04
		125	2.46e-05	0.0	0.0	0.0	0.0	0.0	8.23e-04	-1.72e-04	7.91e-04	-1.40e-04	-1.77e-04
95	4	104	3.52e-05	0.0	0.0	0.0	0.0	0.0	1.44e-03	1.16e-03	1.37e-03	1.22e-03	-1.18e-04
		105	2.02e-05	0.0	0.0	0.0	0.0	0.0	6.47e-04	-1.87e-04	-1.43e-04	6.03e-04	-1.87e-04
		126	8.60e-06	0.0	0.0	0.0	0.0	0.0	3.66e-04	1.23e-04	2.39e-04	2.50e-04	1.21e-04
		125	2.45e-05	0.0	0.0	0.0	0.0	0.0	8.22e-04	-1.72e-04	7.89e-04	-1.39e-04	-1.77e-04

Elem.			**Von Mises**	**N max**	**N min**	**N 1**	**N 2**	**N 1-2**	**M max**	**M min**	**M 1**	**M 2**	**M 1-2**
					0.0	0.0	0.0	0.0		-2.69e-04	-2.09e-04	-2.00e-04	-2.87e-04
			8.42e-05	0.0		0.0	0.0	0.0	3.41e-03		3.41e-03	2.87e-03	2.87e-04

3.4. VERIFICHE AGLI SLU

Di seguito si riporta una tabella nella quale vengono indicati 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:

M_S	macroelemento di tipo setto (elementi verticali contigui ed analoghi per proprietà)
M_G	macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)
Stato	codice di verifica dell'elemento
Nodo	numero del nodo
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
verif.	rapporto Sd/Su con sollecitazioni ultime: valore minore o uguale a 1 per verifica positiva
Ver.rd	rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd): valore minore o uguale a 1 per verifica positiva
Rete pr	maglia di armatura (diametro/passo) in direzione principale inferiore e superiore

Rete sec		maglia di armatura (diametro/passo) in direzione secondaria inferiore e superiore
Aggiuntivi		relativa armatura aggiuntiva (diametro/passo) inferiore (i) e superiore (s) eventualmente differenziate
sc max		massima tensione di compressione del calcestruzzo
sc med		massima tensione media di compressione del calcestruzzo
sf max		massima tensione dell'acciaio
Rif. cmb		combinazioni di carico in cui si verificano i valori riportati
Af pr-		quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Af pr+		quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	**Af sec+**	valori analoghi a quelli soprariportati ma relativi alla armatura secondaria
N	**M**	azioni membranali e flessionali (in direzione dell'armatura principale e secondaria) estratte, poiché rappresentative, tra quelle utilizzate per il progetto e la verifica

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
1	15.00	1	2	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
2	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
3	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
4	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
5	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
6	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
7	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
22	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
23	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
24	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
25	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
26	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
27	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
28	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
43	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
44	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
45	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
46	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
47	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
48	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
49	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
64	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
65	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
66	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
67	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
68	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
69	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
70	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
85	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
86	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
87	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
88	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
89	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
90	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
91	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
106	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
107	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
108	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
109	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
110	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
111	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
112	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0

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
								0.0	0.0	0.0	0.0	0.0	0.0
	0.32	0.0	0.0	5.65	5.65	5.65	5.65	0.0	0.0	0.0	0.0	0.0	0.0

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
2	15.00	1	2	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
8	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.52e-04	3.17e-04	1.34e-04
9	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	8.99e-04	-1.96e-04	-2.87e-04
10	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.84e-03	-2.75e-05	-1.52e-04
11	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.12e-03	-6.19e-06	-1.46e-04
12	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.13e-03	3.50e-06	-1.40e-04
13	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.08e-03	8.44e-06	-1.23e-04
14	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.08e-03	3.59e-06	1.44e-04
15	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.22e-03	2.10e-05	1.70e-04
16	ok	0.32	1.01e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.51e-03	5.44e-06	1.82e-04
17	ok	0.32	1.11e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.77e-03	-9.13e-06	1.77e-04
18	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.82e-03	-1.26e-05	1.49e-04
19	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.44e-03	-5.83e-05	1.08e-04
20	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.13e-03	-2.00e-04	2.54e-04
21	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.43e-04	3.60e-04	-1.74e-04
29	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	-2.09e-04	9.44e-04	-2.53e-04
30	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.74e-03	1.79e-03	-1.99e-04
31	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.28e-03	1.84e-03	-1.20e-04
32	ok	0.32	1.02e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.53e-03	1.91e-03	-7.83e-05
33	ok	0.32	1.02e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.54e-03	1.92e-03	-5.22e-05
34	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.49e-03	1.92e-03	-2.94e-05
35	ok	0.32	1.00e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.50e-03	1.91e-03	4.87e-05
36	ok	0.32	1.04e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.60e-03	1.90e-03	7.00e-05
37	ok	0.32	1.17e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.91e-03	1.94e-03	7.51e-05
38	ok	0.32	1.27e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.17e-03	1.95e-03	8.47e-05
39	ok	0.32	1.29e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.20e-03	1.92e-03	9.15e-05
40	ok	0.32	1.16e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.88e-03	1.85e-03	9.84e-05
41	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.97e-03	1.76e-03	1.70e-04
42	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	-2.05e-04	8.65e-04	2.68e-04
50	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	-5.75e-05	1.90e-03	-8.94e-05
51	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.77e-03	2.40e-03	-6.52e-05
52	ok	0.32	1.08e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.52e-03	2.68e-03	-7.52e-05
53	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.75e-03	2.80e-03	-3.76e-05
54	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.75e-03	2.83e-03	-2.03e-05
55	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.69e-03	2.83e-03	-1.09e-05
56	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.70e-03	2.83e-03	1.61e-05
57	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.79e-03	2.82e-03	1.87e-05
58	ok	0.32	1.24e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.10e-03	2.86e-03	2.56e-05
59	ok	0.32	1.35e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.37e-03	2.87e-03	3.18e-05
60	ok	0.32	1.36e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.41e-03	2.83e-03	4.40e-05
61	ok	0.32	1.24e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.09e-03	2.68e-03	7.83e-05
62	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.99e-03	2.33e-03	5.57e-05
63	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	-5.63e-05	1.79e-03	1.02e-04
71	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	-5.75e-05	1.90e-03	8.94e-05
72	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.77e-03	2.40e-03	6.52e-05
73	ok	0.32	1.08e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.52e-03	2.68e-03	7.52e-05
74	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.75e-03	2.80e-03	3.76e-05
75	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.75e-03	2.83e-03	2.03e-05
76	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.69e-03	2.83e-03	1.09e-05
77	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.70e-03	2.83e-03	-1.61e-05
78	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.79e-03	2.82e-03	-1.87e-05
79	ok	0.32	1.24e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.10e-03	2.86e-03	-2.56e-05
80	ok	0.32	1.35e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.37e-03	2.87e-03	-3.18e-05
81	ok	0.32	1.36e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.41e-03	2.83e-03	-4.40e-05
82	ok	0.32	1.24e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.09e-03	2.68e-03	-7.83e-05
83	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.99e-03	2.33e-03	-5.58e-05
84	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	-5.63e-05	1.79e-03	-1.02e-04
92	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	-2.09e-04	9.44e-04	2.53e-04
93	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.74e-03	1.79e-03	1.99e-04

94	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.28e-03	1.84e-03	1.20e-04
95	ok	0.32	1.02e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.53e-03	1.91e-03	7.83e-05
96	ok	0.32	1.02e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.54e-03	1.92e-03	5.22e-05
97	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.49e-03	1.92e-03	2.94e-05
98	ok	0.32	1.00e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.50e-03	1.91e-03	-4.87e-05
99	ok	0.32	1.04e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.60e-03	1.90e-03	-7.00e-05
100	ok	0.32	1.17e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.91e-03	1.94e-03	-7.51e-05
101	ok	0.32	1.27e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.17e-03	1.95e-03	-8.47e-05
102	ok	0.32	1.29e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.20e-03	1.92e-03	-9.15e-05
103	ok	0.32	1.16e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.88e-03	1.85e-03	-9.84e-05
104	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.97e-03	1.76e-03	-1.70e-04
105	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	-2.05e-04	8.65e-04	-2.68e-04
113	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.52e-04	3.17e-04	-1.34e-04
114	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	8.99e-04	-1.96e-04	2.87e-04
115	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.84e-03	-2.75e-05	1.52e-04
116	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.12e-03	-6.19e-06	1.46e-04
117	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.13e-03	3.50e-06	1.40e-04
118	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.08e-03	8.44e-06	1.23e-04
119	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.08e-03	3.59e-06	-1.44e-04
120	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.22e-03	2.10e-05	-1.70e-04
121	ok	0.32	1.01e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.51e-03	5.44e-06	-1.82e-04
122	ok	0.32	1.11e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.77e-03	-9.13e-06	-1.77e-04
123	ok	0.32	1.13e-06	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.82e-03	-1.26e-05	-1.49e-04
124	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	2.44e-03	-5.83e-05	-1.08e-04
125	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	1.13e-03	-2.00e-04	-2.54e-04
126	ok	0.32	0.0	0.0	5.7	5.7	5.7	5.7	0.0	0.0	0.0	3.43e-04	3.60e-04	1.74e-04

Nodo	**x/d**	**V N/M**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N x**	**N y**	**N xy**	**M x**	**M y**	**M xy**
								0.0	0.0	0.0	-2.09e-04	-2.00e-04	-2.87e-04
	0.32	1.36e-06	0.0	5.65	5.65	5.65	5.65	0.0	0.0	0.0	3.41e-03	2.87e-03	2.87e-04

3.5. VERIFICA AGLI SLE

In tabella vengono riportati i valori di interesse per il controllo degli stati limite d'esercizio.
In particolare vengono riportati, in relazione al tipo di elemento strutturale, i risultati relativi alle tre categorie di combinazione considerate:

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

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

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

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

pilastri	**rRfck**	**rRfyk**	**rPfck**	per sezioni significative
travi	**rRfck**	**rRfyk**	**rPfck**	per sezioni significative

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

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR mm	wF mm	wP mm	Rif. cmb
1	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
2	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
3	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
4	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
5	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
6	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
7	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
8	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
9	0.0	0.0	1.03e-06	2,2,4	0.0	0.0	0.0	0,0,0
10	0.0	0.0	1.03e-06	2,2,4	0.0	0.0	0.0	0,0,0
11	0.0	0.0	1.03e-06	2,2,4	0.0	0.0	0.0	0,0,0
12	0.0	0.0	1.01e-06	2,2,4	0.0	0.0	0.0	0,0,0
13	0.0	0.0	1.06e-06	2,2,4	0.0	0.0	0.0	0,0,0
14	0.0	1.04e-06	1.18e-06	2,2,4	0.0	0.0	0.0	0,0,0
15	0.0	1.13e-06	1.29e-06	2,2,4	0.0	0.0	0.0	0,0,0
16	0.0	1.15e-06	1.30e-06	2,2,4	0.0	0.0	0.0	0,0,0
17	0.0	1.15e-06	1.30e-06	2,2,4	0.0	0.0	0.0	0,0,0
18	0.0	1.03e-06	1.17e-06	2,2,4	0.0	0.0	0.0	0,0,0
19	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
20	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
21	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
22	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
23	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
24	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
25	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
26	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
27	0.0	0.0	1.10e-06	2,2,4	0.0	0.0	0.0	0,0,0
28	0.0	1.01e-06	1.14e-06	2,2,4	0.0	0.0	0.0	0,0,0
29	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
30	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
31	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
32	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
33	0.0	1.11e-06	1.26e-06	2,2,4	0.0	0.0	0.0	0,0,0
34	1.03e-06	1.20e-06	1.36e-06	2,2,4	0.0	0.0	0.0	0,0,0
35	1.05e-06	1.22e-06	1.38e-06	2,2,4	0.0	0.0	0.0	0,0,0
36	1.05e-06	1.22e-06	1.38e-06	2,2,4	0.0	0.0	0.0	0,0,0
37	0.0	1.11e-06	1.26e-06	2,2,4	0.0	0.0	0.0	0,0,0
38	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
39	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
40	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
41	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
42	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
43	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
44	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
45	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
46	0.0	0.0	1.08e-06	2,2,4	0.0	0.0	0.0	0,0,0
47	0.0	0.0	1.13e-06	2,2,4	0.0	0.0	0.0	0,0,0
48	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
49	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
50	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
51	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
52	0.0	1.11e-06	1.26e-06	2,2,4	0.0	0.0	0.0	0,0,0
53	1.03e-06	1.20e-06	1.36e-06	2,2,4	0.0	0.0	0.0	0,0,0
54	1.05e-06	1.22e-06	1.38e-06	2,2,4	0.0	0.0	0.0	0,0,0
55	1.05e-06	1.22e-06	1.38e-06	2,2,4	0.0	0.0	0.0	0,0,0
56	0.0	1.10e-06	1.25e-06	2,2,4	0.0	0.0	0.0	0,0,0
57	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
58	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
59	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0

60	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
61	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
62	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
63	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
64	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
65	0.0	0.0	1.10e-06	2,2,4	0.0	0.0	0.0	0,0,0
66	0.0	1.01e-06	1.14e-06	2,2,4	0.0	0.0	0.0	0,0,0
67	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
68	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
69	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
70	0.0	1.01e-06	1.15e-06	2,2,4	0.0	0.0	0.0	0,0,0
71	0.0	1.11e-06	1.26e-06	2,2,4	0.0	0.0	0.0	0,0,0
72	1.03e-06	1.20e-06	1.36e-06	2,2,4	0.0	0.0	0.0	0,0,0
73	1.05e-06	1.22e-06	1.38e-06	2,2,4	0.0	0.0	0.0	0,0,0
74	1.05e-06	1.22e-06	1.38e-06	2,2,4	0.0	0.0	0.0	0,0,0
75	0.0	1.11e-06	1.26e-06	2,2,4	0.0	0.0	0.0	0,0,0
76	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
77	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
78	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
79	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
80	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
81	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
82	0.0	0.0	0.0	0,0,0	0.0	0.0	0.0	0,0,0
83	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
84	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0
85	0.0	0.0	1.03e-06	2,2,4	0.0	0.0	0.0	0,0,0
86	0.0	0.0	1.03e-06	2,2,4	0.0	0.0	0.0	0,0,0
87	0.0	0.0	1.03e-06	2,2,4	0.0	0.0	0.0	0,0,0
88	0.0	0.0	1.01e-06	2,2,4	0.0	0.0	0.0	0,0,0
89	0.0	0.0	1.06e-06	2,2,4	0.0	0.0	0.0	0,0,0
90	0.0	1.04e-06	1.18e-06	2,2,4	0.0	0.0	0.0	0,0,0
91	0.0	1.13e-06	1.29e-06	2,2,4	0.0	0.0	0.0	0,0,0
92	0.0	1.15e-06	1.30e-06	2,2,4	0.0	0.0	0.0	0,0,0
93	0.0	1.15e-06	1.30e-06	2,2,4	0.0	0.0	0.0	0,0,0
94	0.0	1.03e-06	1.17e-06	2,2,4	0.0	0.0	0.0	0,0,0
95	0.0	0.0	0.0	2,2,4	0.0	0.0	0.0	0,0,0

Guscio	**rRfck**	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
	1.05e-06	1.22e-06	1.38e-06		0.0	0.0	0.0	

4. VERIFICA GEOTECNICA DELLA CABINA DI RACCOLTA

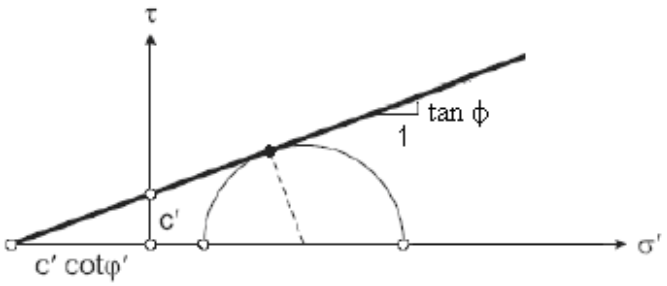
4.1. GENERALITÀ

L'intervento consiste dell'installazione di cabina di raccolta.

Per la modellazione agli elementi finiti, si è adottato per il terreno il modello alla Winkler.

Le verifiche di ciascuno stato limite ultimo (SLU) geotecnico consistono nel controllare che la sollecitazione di calcolo E_d sia inferiore alla sollecitazione resistente R_d in corrispondenza della quale si forma una superficie di rottura nei cui punti le tensioni tangenziali τ e perpendicolari efficaci σ' sono legate dalla relazione (Criterio di Mohr Coulomb):

$$\tau = c' + \sigma' \tan\varphi$$



Criterio di rottura di Mohr-Coulomb

Per ogni tipo di SLU geotecnico, la teoria di calcolo adottata per determinare la sollecitazione resistente, fa un'ipotesi più o meno verosimile sulla forma della superficie di rottura in questione. Per il teorema cinematico dell'analisi limite, la differenza esistente tra la superficie di rottura ipotizzata e quella effettiva introduce un errore a vantaggio di sicurezza.
Inoltre, per ciascuno SLU geotecnico, la verifica deve essere eseguita in entrambe le condizioni:

- non drenate (a breve termine dall'applicazione del carico):

$$c = c_u \qquad \phi = 0 \qquad \gamma = \gamma$$

- drenate (a lungo termine dall'applicazione del carico):

$$c = c' \qquad \phi = \phi' \qquad \gamma = \gamma'$$

Per la stima dei cedimenti, occorre definire la profondità *H* dello strato deformabile al di sotto del quale si può considerare il terreno infinitamente rigido. Tale profondità è tale che al di sotto di essa si possano trascurare gli incrementi di tensione efficace $\Delta\sigma'$, perché inferiori ad una certa aliquota (ad esempio il 15%) della tensione geostatica $\sigma_0 = \gamma \cdot z$.

La verifica a carico limite verticale è soddisfatta se:

$$N_d \le N_{\lim} = \frac{1}{\gamma_R} BLq_{\lim}$$

dove:

q_{lim}	carico limite unitario;
B e L	dimensioni della fondazione;
γ_R	coefficiente di sicurezza R2.

Il calcolo del carico limite avviene modellando il terreno come mezzo rigido perfettamente plastico. L'espressione del carico limite è la seguente:

$$q_{\lim} = \gamma_1 D N_q s_q d_q i_q b_q g_q + c N_c s_c d_c i_c b_c g_c + \frac{1}{2}\gamma_2 B N_\gamma s_\gamma d_\gamma i_\gamma b_\gamma g_\gamma$$

dove:

D	profondità del piano di posa;
γ_0	peso di volume del terreno a profondità $< D$;
c	coesione;
γ	peso di volume del terreno a profondità $> D$;
Nq, Nc, Nγ	fattori adimensionali di portanza funzione dell'angolo d'attrito interno φ del terreno;
s_q, s_c, s_g	fattori di forma;
d_q, d_c, d_g	fattori di approfondimento;
i_q, i_c, i_g	fattori di inclinazione carico;
b_q, b_c, b_g	fattori di inclinazione piano di posa;
g_q, g_c, g_g	fattori di inclinazione piano campagna.

Nel caso di carico eccentrico, secondo il Meyerhof, si riducono le dimensioni della superficie di contatto tra fondazione e terreno (B, L) in tutte le formule del calcolo del carico limite. Tale riduzione è espressa dalle seguenti relazioni:

$B_{rid} = B - 2 \cdot e_B$ $\qquad$ $L_{rid} = L - 2 \cdot e_L$ $\qquad$ dove e_B, e_L sono le eccentricità relative alle dimensioni in esame.

L'equazione trinomia del carico limite può essere risolta secondo varie formulazioni. Nel caso in esame si è adottata la formulazione di Vesic (1975) di seguito riportata:

$$N_q = tg^2\left(\frac{90° + \varphi}{2}\right) \cdot e^{\pi \cdot tg(\varphi)} \qquad N_\gamma = 2 \cdot (N_q + 1) \cdot tg(\varphi) \qquad N_c = (N_q - 1) \cdot ctg(\varphi)$$

- se $\varphi \neq 0$ si ha:

$$s_q = 1 + \frac{B}{L} \cdot tg(\varphi) \qquad s_\gamma = 1 - 0.4 \cdot \frac{B}{L} \qquad s_c = 1 + \frac{N_q \cdot B}{N_c \cdot L}$$

$$d_q = 1 + 2 \cdot tg(\varphi) \cdot (1 - sen(\varphi))^2 \cdot \Theta \qquad d_\gamma = 1.0 \qquad d_c = 1 + 0.4 \cdot \Theta$$

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

$$i_q = \left[1 - \frac{H}{V + A_f \cdot c_a \cdot ctg(\varphi)}\right]^m \qquad i_\gamma = \left[1 - \frac{H}{V + A_f \cdot c_a \cdot ctg(\varphi)}\right]^{m+1} \qquad i_c = i_q - \frac{1 - i_q}{N_q - 1}$$

$$\text{dove: } m = m_B = \frac{2 + \frac{B}{L}}{1 + \frac{B}{L}} \qquad m = m_L = \frac{2 + \frac{L}{B}}{1 + \frac{L}{B}}$$

- se $\varphi = 0$ si ha:

$$s_q = 1.0 \quad s_\gamma = 1.0 \quad s_c = 1 + 0.2 \cdot \frac{B}{L}$$

$$d_q = 1.0 \qquad d_\gamma = 1.0 \qquad d_c = 1 + 0.4 \cdot \Theta$$

$$i_q = 1.0 \quad i_\gamma = 1.0 \quad i_c = 1 - \frac{m \cdot H}{A_f \cdot c_a \cdot N_c}$$

nel caso in cui $\varphi = 0$ => $N_q = 1.0$, $N_\gamma = 1.0$ e $N_c = 2+\pi$

nelle precedenti relazioni:

- V componente verticale del carico agente sulla fondazione;
- H componente orizzontale del carico agente sulla fondazione (sia lungo B che lungo L);
- c_a adesione fondazione-terreno (valore variabile tra il 60% e 100% della coesione).

Se il carico applicato alla base della fondazione non è normale alla stessa, si effettua anche una verifica per rottura a scorrimento. Rispetto al collasso per scorrimento la resistenza offerta dal sistema fondale viene valutata come somma di due componenti, la prima derivante dall'attrito fondazione-terreno, la seconda derivante dall'adesione. In generale oltre alle due componenti ora citate può essere tenuto in conto anche l'effetto della spinta passiva del terreno di ricoprimento esercita sulla fondazione, questa però fino ad un massimo del 30%. In forma analitica il procedimento su esposto può essere formulato nel seguente modo:

$$T_{Sd} \leq T_{Rd} = N_{Sd} \cdot tg(\delta) + A_f \cdot c_a + S_p \cdot f_{Sp}$$

dove i termini dell'espressione hanno il seguente significato:

- T_{Sd} componente orizzontale del carico agente sulla fondazione (sia lungo B che lungo L);
- N_{Sd} componente verticale del carico agente sulla fondazione;
- c_a adesione fondazione-terreno (valore variabile tra il 60% e 100% della coesione);
- δ angolo d'attrito fondazione-terreno (valore variabile tra il 60% e 100% della coesione);
- Sp spinta passiva del terreno di ricoprimento della fondazione;
- f_{Sp} percentuale di partecipazione della spinta passiva;
- A_f superficie di contatto del piano di posa della fondazione.

Va da se che tale tipo di verifica deve essere effettuata per entrambe le direzioni.

Ai fini del calcolo dei cedimenti è essenziale conoscere lo stato tensionale indotto nel terreno a varie profondità da un carico applicato in superficie. Tale determinazione viene eseguita ipotizzando che il terreno si comporti come un mezzo continuo, elastico-lineare, omogeneo e isotropo. Tale assunzione, utilizzata per la determinazione della variazione delle tensioni verticali dovuta all'applicazione di un carico in superficie, è confortata dalla letteratura (Morgenstern e Phukan) perché la non linearità del materiale poco influenza la distribuzione delle tensioni verticali. Per ottenere un profilo verticale di pressioni si è utilizzato il metodo di Westergaard, basato sulla teoria del continuo elastico.
L'algoritmo implementato è basato sulle ben note equazioni ricavate per un carico puntiforme:

$$\text{Westergaard} \Rightarrow \Delta\sigma_v = \frac{Q}{2\cdot\pi\cdot z^2}\cdot\frac{\sqrt{\frac{1-2\cdot\nu}{2-2\cdot\nu}}}{\left(\frac{1-2\cdot\nu}{2-2\cdot\nu}+\frac{r^2}{z^2}\right)^{\frac{3}{2}}}$$

dove i termini dell'espressione hanno il seguente significato:

- Q carico puntiforme applicato sulla frontiera del mezzo;
- r proiezione orizzontale della distanza del punto di applicazione del carico dal punto in esame;
- z proiezione verticale della distanza del punto di applicazione del carico dal punto in esame.

Esso esegue un'integrazione dell'equazione di cui sopra lungo la verticale di ogni punto notevole degli elementi fondali, estesa a tutte le aree di carico presenti sulla superficie del terreno; il tutto al fine della determinazione della variazione dello stato tensionale verticale "Δσv". Una nota esplicativa va fatta sul valore da assegnare a "Q", esso è definito, nel caso di pressione, come "pressione netta" ossia la pressione in eccesso rispetto a quella geostatica esistente, che può essere sopportata con sicurezza alla profondità "D" del piano di posa delle fondazioni, questo perché i cedimenti sono causati solo da incrementi netti di pressione che si aggiungono all'esistente pressione geostatica.
La determinazione dei cedimenti delle fondazioni, assume, in special modo nella fase di esercizio, una rilevanza notevole per il manufatto da realizzarsi. Nell'evolversi della fase di cedimento, il terreno passa da uno stato di sforzo corrente (dovuto al peso proprio) a uno nuovo, per effetto del carico addizionale applicato. La variazione dello stato tensionale di cui sopra, produce una serie di movimenti di rotolamento e scorrimento relativo tra i granuli del terreno nonché deformazioni elastiche è rotture delle particelle costituenti il mezzo, localizzate in una limitata zona d'influenza a ridosso dell'area di carico. L'insieme di questi fenomeni costituisce il cedimento, che nel caso in esame è quello verticale. Nonostante la frazione elastica sia modesta, l'esperienza ha dimostrato che modellare il terreno (ai fini del calcolo dei cedimenti) come materiale pseudoelastico permette di ottenere risultati soddisfacenti.
Il calcolo dei cedimenti è stato condotto con il metodo edometrico, che si basa sulla nota relazione:

$$w_{ed} = \sum_{i=1}^{n}\frac{\Delta\sigma_{v,i}}{E_{ed,i}}\cdot\Delta z_i$$

dove i termini dell'espressioni hanno il seguente significato:

- $\Delta\sigma_{v,i}$ variazione stato tensionale verticale alla profondità "z_i" dello strato i-esimo per effetto dell'applicazione del carico;
- $E_{ed,i}$ modulo edometrico del terreno relativo allo strato i-esimo;
- Δz_i spessore dello strato i-esimo.

Date le caratteristiche prevalentemente non coesive dei litotipi oggetto di studio e l'assenza della falda, le verifiche geotecniche sono state condotte solo in condizione di lungo termine (condizioni drenate).

4.2. VERIFICA DELLA CAPACITÀ PORTANTE

Metodi di calcolo della portanza per fondazioni superficiali:
- Per terreni sciolti: Vesic
- Per terreni lapidei: Terzaghi

Fattori utilizzati per il calcolo della portanza per fondazioni superficiali:
- Riduzione dimensioni per eccentricità: si
- Fattori di forma della fondazione: si
- Fattori di profondità del piano di posa: si
- Fattori di inclinazione del carico: si
- Fattori di punzonamento (Vesic): si
- Fattore riduzione effetto piastra (Bowles): si
- Fattore di riduzione dimensione Base equivalente platea: 20,0 %
- Fattore di riduzione dimensione Lunghezza equivalente platea: 20,0 %

Effetti inerziali (Paolucci-Pecker):
- Coeff. sismico orizzontale Kh = 0,000
- Angolo d'attrito alla quota di fond.= 20,0
- Fattore correttivo Zc = 1,000
- Fattore correttivo Zq = 1,000

Coefficienti parziali di sicurezza per Tensioni Ammissibili, SLE e SLD nel calcolo della portanza per fondazioni superficiali:
- Coeff. parziale di sicurezza Fc (statico): 2,50
- Coeff. parziale di sicurezza Fq (statico): 2,50
- Coeff. parziale di sicurezza Fg (statico): 2,50
- Coeff. parziale di sicurezza Fc (sismico): 3,00
- Coeff. parziale di sicurezza Fq (sismico): 3,00
- Coeff. parziale di sicurezza Fg (sismico): 3,00

Combinazioni di carico:
APPROCCIO PROGETTUALE TIPO 2 - Comb. (A1+M1+R3)

Coefficienti parziali di sicurezza per SLU nel calcolo della portanza per fondazioni superficiali:

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

- Coeff. M1 per Tan(fi) (statico): 1
- Coeff. M1 per c' (statico): 1
- Coeff. M1 per Cu (statico): 1
- Coeff. M1 per Tan(fi) (sismico): 1
- Coeff. M1 per c' (sismico): 1
- Coeff. M1 per Cu sismico): 1

- Coeff. R3 capacità portante: 2,30
- Coeff. R3 scorrimento: 1,10

Parametri per la verifica a scorrimento delle fondazioni superficiali:

- Fattore per l'adesione (6 < Ca < 10): 8
- Fattore per attrito terreno-fondazione (5 < Delta < 10): 7
- Frazione di spinta passiva fSp: 30,00 %

Per la condizione drenata, i tabulati che seguono riportano, per le combinazioni di carico agli SLU (vedi elaborato "Relazione di calcolo"), i valori di calcolo della portanza per fondazioni superficiali e la relativa verifica. La simbologia adoperata è la seguente:

- Qlim q: valore del termine relativo al sovraccarico nella formula trinomia per il calcolo della capacità portante (nel caso in cui si operi alle tensioni ammissibili corrisponde alla relativa parte della portanza ammissibile);
- Qlim g: valore del termine relativo alla larghezza della base di fondazione nella formula trinomia per il calcolo della capacità portante (nel caso in cui si operi alle tensioni ammissibili corrisponde alla relativa parte della portanza ammissibile);
- Qlim c: valore del termine relativo alla coesione nella formula trinomia per il calcolo della capacità portante (nel caso in cui si operi alle tensioni ammissibili corrisponde alla relativa parte della portanza ammissibile);
- Qres T: valore della capacità portante relativo alla resistenza al punzonamento del terreno sovrastante lo strato di rottura. Tale valore risulta non nullo nel caso di terreni stratificati dove lo strato di rottura è diverso dal primo (nel caso in cui si operi alle tensioni ammissibili corrisponde alla relativa parte della portanza ammissibile);
- Qlim: valore della capacità portante totale quale somma di Qlim q, Qlim g, Qlim c e di Qres T;
- Qmax / Qlim: rapporto tra il massimo valore della distribuzione tensionale di contatto tra terreno ed elemento fondale e il valore della capacità portante (verifica positiva se il rapporto è < 1.0).
- Cmb: numero della combinazione di carico (nel caso che essa sia di S.L.U. è riportata la tipologia);
- TBlim: valore limite della resistenza a scorrimento nella direzione parallela alla sezione trasversale dell'elemento;
- T.B / TBlim: rapporto tra lo sforzo di taglio agente e il valore limite della resistenza a scorrimento nella direzione parallela alla sezione trasversale dell'elemento (verifica positiva se il rapporto è < 1.0);
- TLlim: valore limite della resistenza a scorrimento nella direzione parallela allo sviluppo longitudinale dell'elemento;
- T.L / TLlim: rapporto tra lo sforzo di taglio agente e il valore limite della resistenza a scorrimento nella direzione parallela allo sviluppo longitudinale dell'elemento (verifica positiva se il rapporto è < 1.0);

Elemento: Platea n. 1

Cmb.	Qmax	Qlim	Qmax/Qlim	TB	TBlim	TB/TBlim	TL	TLlim	TL/TLlim	Stato
n.	daN/cm^2	daN/cm^2		daN	daN		daN	daN		
1	1.0770	1.2898	0.835	0.0	19336.4	0.000	0.0	19362.3	0.000	Ok

Risultati più gravosi:
Sgm. Lt (tens. litostatica) = -0.1203 daN/cm^2
Qlim = Qlim c + Qlim q + Qlim g + Qres P = 0.6872 + 0.3845 + 0.2181 + 0.0000
Qmax / Qlim = 1.0770 / 1.2898 = 0,835 Ok (Cmb 01 SLU)
TB / TBlim = 0.0 / 19362.3 = 0,000 Ok (Cmb 01 SLU)
TL / TLlim = 0.0 / 19336.4 = 0,000 Ok (Cmb 01 SLU)

Elemento: Platea n. 2

Cmb.	Qmax	Qlim	Qmax/Qlim	TB	TBlim	TB/TBlim	TL	TLlim	TL/TLlim	Stato
n.	daN/cm^2	daN/cm^2		daN	daN		daN	daN		
1	1.0770	1.2097	0.890	0.0	43024.6	0.000	0.0	43242.4	0.000	Ok

Risultati più gravosi:
Sgm. Lt (tens. litostatica) = 0.0000 daN/cm^2
Qlim = Qlim c + Qlim q + Qlim g + Qres P = 0.0000 + 0.0000 + 0.0000 + 0.0000
Qmax / Qlim = 1.0770 / 0.0000 = 0,000 Ok (Cmb 01 SLU)
TB / TBlim = 0.0 / 0.0 = 0,000 Ok (Cmb 01 SLU)

TL / TLlim = 0.0 / 0.0 = 0,000 Ok (Cmb 01 SLU)

4.3. CALCOLO DEI CEDIMENTI

Di seguito si riportano le modalità di conduzione e le risultanze del calcolo dei cedimenti.

Metodi e parametri per il calcolo dei cedimenti delle fondazioni superficiali:
- Metodo di calcolo tensioni superficiali: Westergaard
- Modalità d'interferenza dei bulbi tensionali: sovrapposizione dei bulbi
- Metodo di calcolo dei cedimenti del terreno: cedimenti edometrici

Valori di calcolo dei cedimenti per fondazioni superficiali
Elemento: Platea n. 1
Cedimento minimo = -0.471 cm in Cmb n. 003 SLE rara

Elemento: Platea n. 31
Cedimento minimo = -0.476 cm in Cmb n. 003 SLE rara