Allegato n° 3

n.mecc. 2014 07177/031

CITTA' DI TORINO

DIREZIONE SERVIZI TECNICI PER L'EDILIZIA PUBBLICA
SERVIZIO EDILIZIA SCOLASTICA

LAVORI DI MANUTENZIONE STRAORDINARIA
PER IL CONSOLIDAMENTO STRUTTURALE NELL'EDIFICIO SCOLASTICO
SITO IN VIA M. CRISTINA 102 - CIRCOSCRIZIONE 8

PROGETTO DEFINITIVO / ESECUTIVO

RELAZIONE DI CALCOLO

Torino, 18 DIC. 2014

IL PROGETTISTA ARCHITETTONICO
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CITTÀ DI TORINO

Regione Piemonte – Provincia di Torino

Istituto Scolastico *«Silvio Pellico»*

OPERE DI CONSOLIDAMENTO STRUTTURALE

Via Madama Cristina 102

Relazione illustrativa e di calcolo

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PARTE - I GENERALITÀ

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I.1. OGGETTO DELL'INCARICO

Con riferimento agli esiti della valutazione della sicurezza della Scuola Elementare denominata *«Silvio Pellico»*, sita in via Madama Cristina 102 nel comune di Torino, si redige la presente relazione illustrativa, e di calcolo degli interventi di consolidamento statico e miglioramento antisismico in progetto.

La relazione è redatta in conformità alle prescrizioni del capitolo 10 del D.M. 14/1/08, *"Norme Tecniche per le Costruzioni"* ed è comprensiva di una descrizione generale dell'opera, della caratterizzazione sismica del sito e dei criteri generali di analisi e verifica.

I.2. ORGANIZZAZIONE DEL DOCUMENTO

Il presente documento è suddiviso in diverse sezioni come riassunto dalla seguente tabella.

Tabella 01 - Organizzazione del documento

PARTE - I GENERALITÀ	Descrizione dell'intervento e materiali
PARTE - II AZIONI ED ANALISI DEI CARICHI	Azioni esterne ed analisi dei carichi
PARTE - III ANALISI STRUTTURALI	Analisi dinamica modale finalizzata alla determinazione delle caratteristiche di sollecitazione
PARTE - IV VERIFICHE STRUTTURALI	Verifiche degli elementi sottoposti a rinforzo CAM
Errore: sorgente del riferimento non trovata ALLEGATI	Teoria alla base del rinforzo CAM

I.3. QUADRO NORMATIVO

Legge 5/11/71	Norme per la disciplina delle opere in conglomerato cementizio armato, normale e precompresso ed a struttura metallica
Circ. 14/2/74, n. 11951	Applicazione della Legge 5 novembre 1971, n. 1086
D.M. 14/1/08	Norme tecniche per le costruzioni
Circ. 2/2/09, n. 617	Istruzioni per l'applicazione delle Nuove norme tecniche per le costruzioni di cui al D.M. 14 gennaio 2008
UNI EN 1992-1-2:2005	Eurocodice 2 – Progettazione delle strutture di calcestruzzo – Parte 1-1: Regole generali e regole per gli edifici
UNI ENV 1993-1-1	Eurocodice 3 – Progettazione delle strutture in acciaio – Parte 1-1: Regole gene-

	rali e regole per gli edifici
UNI EN 1995-1-1:2005	Eurocodice 5 – Progettazione delle strutture di legno – Parte 1-1: Regole generali – Regole comuni e regole per gli edifici
UNI EN 1997-1:2005	Eurocodice 7 – Progettazione geotecnica – Parte 1: Regole generali
UNI EN 1998-1:2005	Eurocodice 8 – Progettazione delle strutture per la resistenza sismica – Parte 1: Regole generali, azioni sismiche e regole per gli edifici

I.4. DESCRIZIONE DEL FABBRICATO

I.4.1. Generalità

L'edificio si sviluppa su 6 livelli di cui uno interrato, in aderenza agli edifici adiacenti e costituisce l'ampliamento del nucleo originario della scuola elementare "Silvio Pellico". La sua costruzione risale al 1980. Sono stati resi disponibili dal comune di Torino i disegni originali architettonici e strutturali, questi ultimi nella loro versione esecutiva. L'edificio, essendo stato dichiarato inagibile, non è attualmente utilizzato.

Le fondazioni sono di tipo superficiale costituite da plinti in c.a. dimensioni 150x150 cm spessore 50 cm impostate su pozzi di cls. Il piano interrato ed il piano terra sono caratterizzati da portali in c.a. che coprono l'intera larghezza dell'edificio, senza pilastri intermedi, i quali sono presenti ai livelli superiori, portati in falso dai telai del piano terra.

I tre livelli superiori (piano tipo) sono caratterizzati da tre telai paralleli, due di facciata ed uno centrale, aventi travi in spessore di solaio di dimensioni 70x24 cm quelle di bordo, e 80x24 cm quelle centrali. Gli orizzontamenti sono costituiti da solai a lastre predalles con blocchi di alleggerimento in polistirolo e getto di completamento in opera di dimensioni 4+16+4 cm.

Il livello del sottotetto è nuovamente privo di pilastri centrali ed è caratterizzato dalla presenza di capriate in c.a. con correnti inferiore e superiore in travi a sezioni a T e T rovescio.

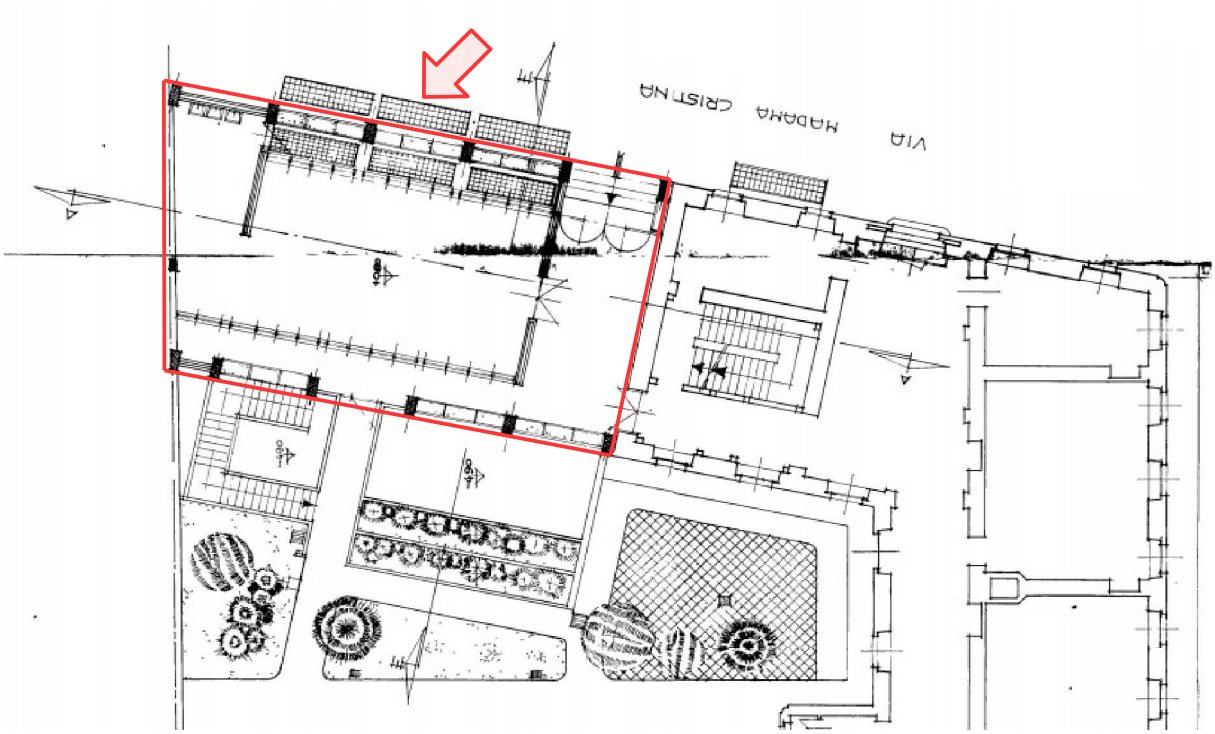

Figura 01 - Localizzazione intervento

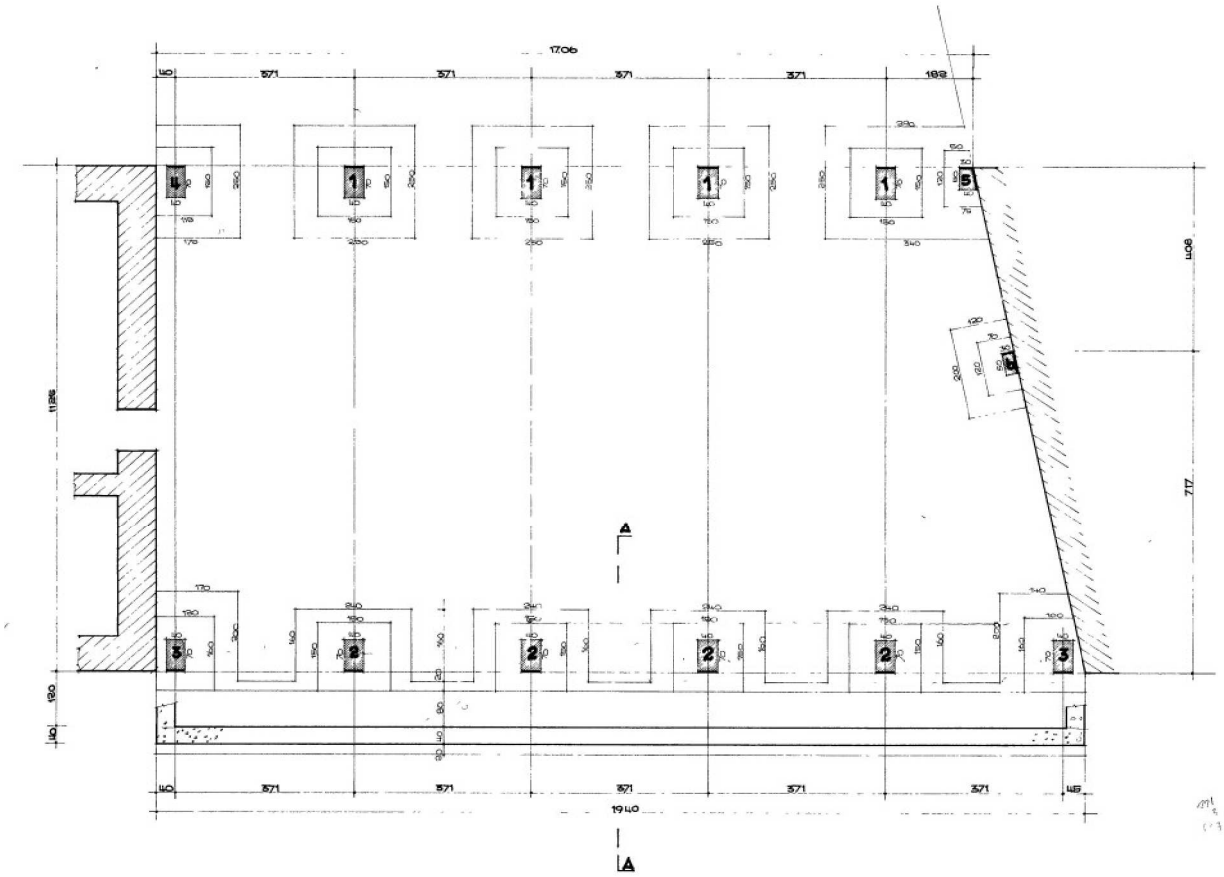

Figura 02 - Progetto originale: pianta delle fondazioni

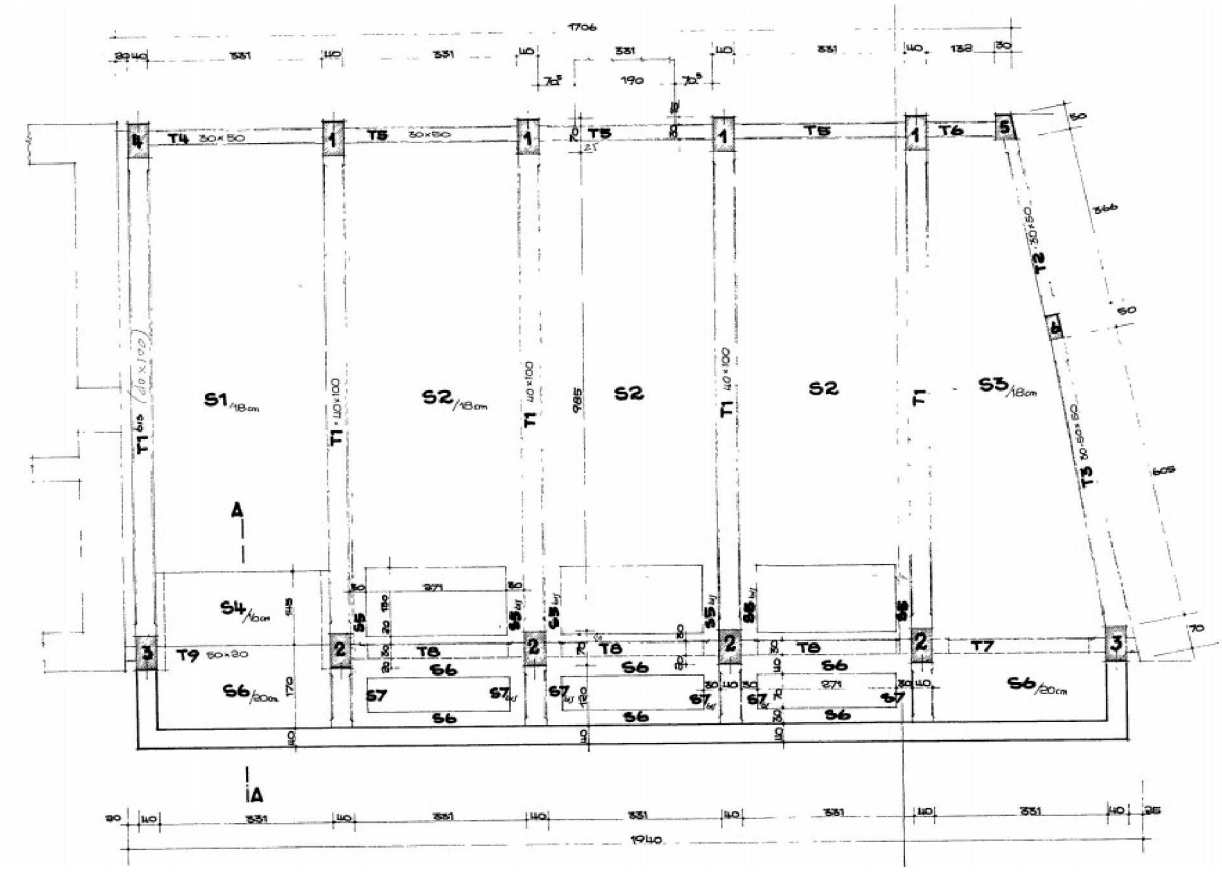

Figura 03 - Progetto originale: carpenteria piano seminterrato

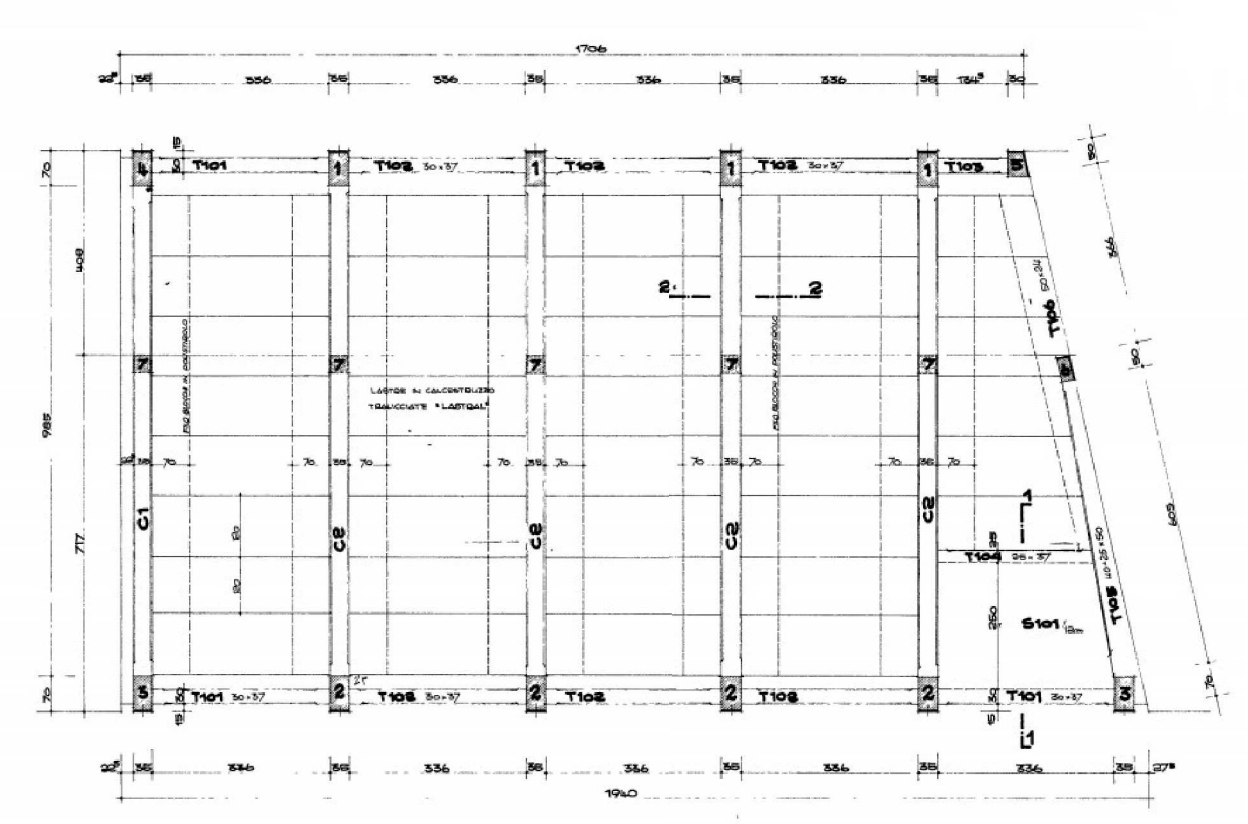

Figura 04 - Progetto originale: carpenteria piano pilotis

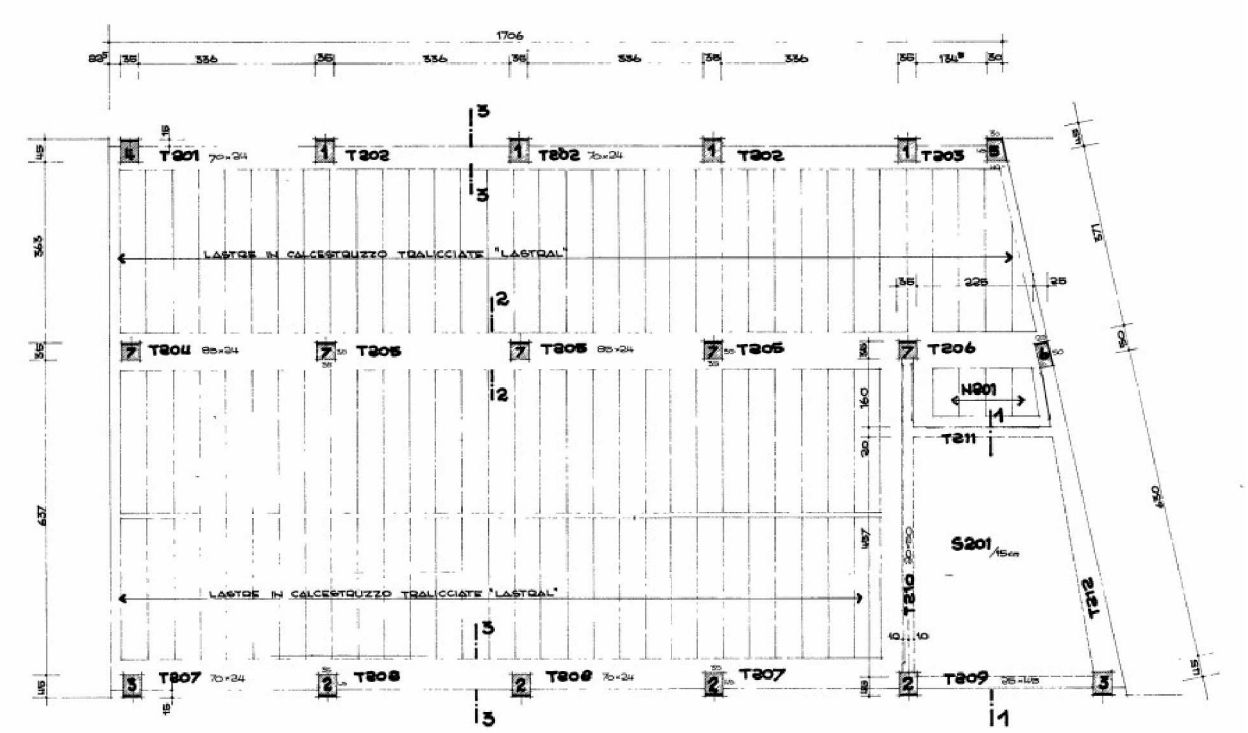

Figura 05 - Progetto originale: carpenteria piano tipo

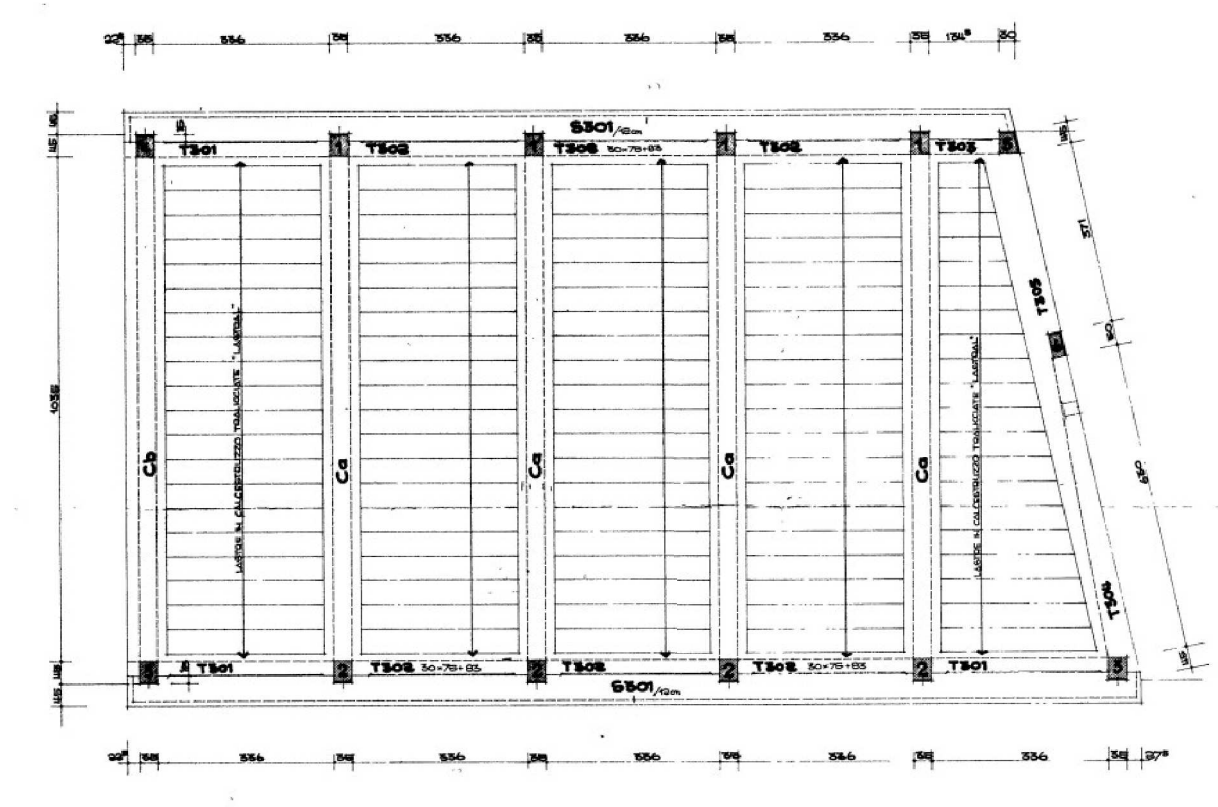

Figura 06 - Progetto originale: carpenteria piano sottotetto

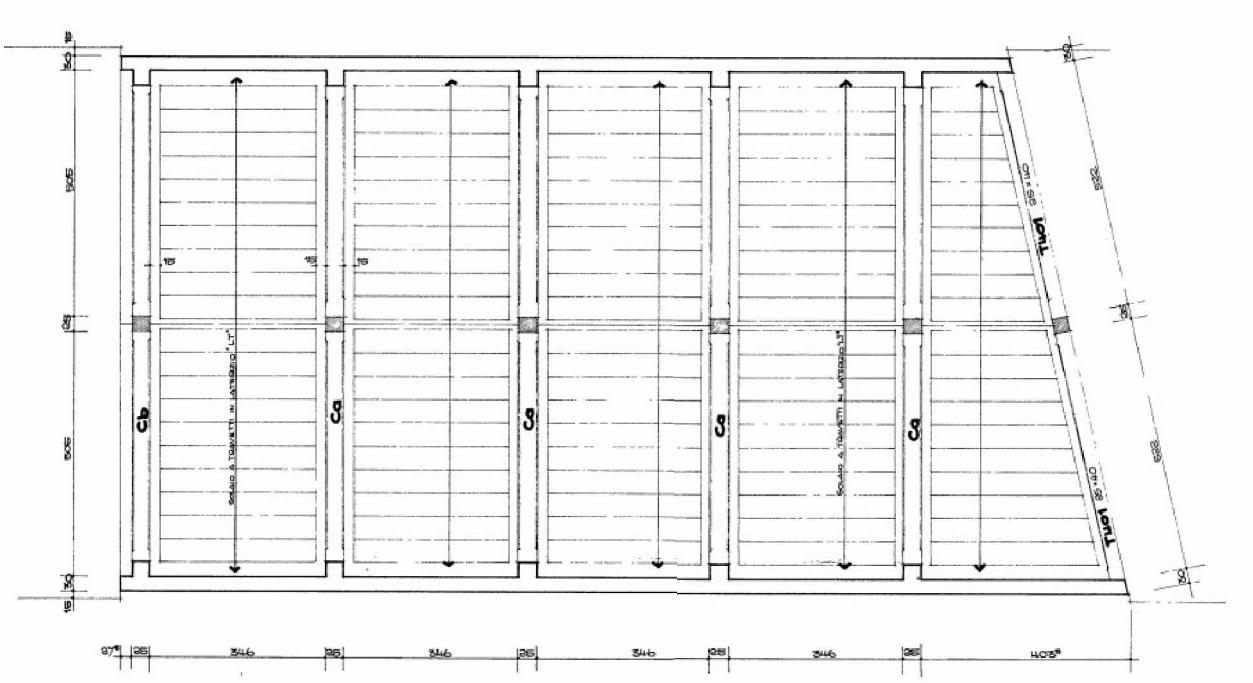

Figura 07 - Progetto originale: carpenteria copertura

I.5. VALUTAZIONE DELLA SICUREZZA

I.5.1. Generalità

Il progetto di rinforzo di cui alla presente relazione ha come base di partenza la valutazione di vulnerabilità sismica del fabbricato fatta redigere dal comune di Torino. Inoltre è presente una relazione quale documentazione della campagna di indagine condotta per la determinazione del profilo sismico del terreno di sedime.

I.5.2. Vulnerabilità sismica del fabbricato

L'esito della valutazione della sicurezza ha messo in evidenza importanti criticità di materiale (vedi esito prove distruttive su materiali). Inoltre il fabbricato non presenta caratteristiche funzionali allo sviluppo di una adeguata resistenza nei confronti delle azioni orizzontali (vento, sisma), non essendoci nuclei di controventamento o telai efficaci a tal fine.

Tutto ciò si è tradotto, in estrema sintesi, in un indice di rischio nullo, quale rapporto tra PGA in capacità e PGA in domanda.

I.5.3. Indagine sismica

Alla data di redazione del presente documento si ha a disposizione la relazione di indagine sismica di cui alla seguente tabella.

Tabella 02 - Estremi relazione di indagine sismica del sottosuolo

Titolo:	Relazione tecnica di indagine sismica con metodologia MASW
Data:	Novembre 2013
Firma:	Geol. Emanuele Duò

Si riporta l'assetto sismostratigrafico sulla base di quanto riportato nella relazione di indagine di cui alla tabella precedente.

Tabella 03 - Livelli sismostratigrafici da indagine MASW

Livello	Quota	Descrizione
1	da 0,0 a -6,5 m	Terreni con grado di addensamento medio-basso (330 ≤ Vs ≤ 440 m/s)
2	da -6,5 a -16,5 m	Terreni con grado di addensamento medio-alto (470 ≤ Vs ≤ 610 m/s)
3	da -16,5 a -28,0 m	Terreni con elevata anisotripia laterale (410 ≤ Vs ≤ 470 m/s)
4	> 28 m	Terreni con elevato grado di addensamento (680 ≤ Vs ≤ 750 m/s)

I.6. SOPRALLUOGHI E RILIEVI

I.6.1. Introduzione

Sono stati eseguiti sopralluoghi nei giorni 9/10, 24/10 e 3/11 nel corso dei quali è stato verificato lo stato di conservazione delle strutture, alla luce di quanto riportato nei documenti citati in precedenza, e sono state verificate le dimensioni dei diversi elementi strutturali. In particolare poi nell'ultimo sopralluogo, è stata effettuata una prova pratica circa la possibilità di realizzare l'intervento di rinforzo proposto sui pilastri di facciata, mediante taglio del serramento ed inserimento del nastro di rinforzo. La prova ha dato esito positivo.

I.6.2. Documentazione fotografica

Segue una breve documentazione fotografica.

Figura 08 - Rilievo pilastro di facciata

Figura 09 - Rilievo serramento

Figura 10 - Pilastrino in muratura per davanzale

Figura 11 - Pilastrino in muratura per davanzale

Figura 12 - Pilastro centrale al p. tipo e solaio a lastre

Figura 13 - Portale al piano pilotis

Figura 14 - Prova inserimento nastro CAM

Figura 15 - Dettaglio prova rinforzo pilastro di facciata

I.7. DEGRADO DELLE STRUTTURE, STATI FESSURATIVI, DISTORSIVI E DISSESTI

L'analisi visiva dell'edifico e i rilievi effettuati in situ sugli elementi strutturali, non hanno evidenziato nelle murature e nei solai, quadri fessurativi rilevanti.

Anche l'analisi dello stato distorsivo dell'edificio ha dato esito soddisfacente, grazie ad una sostanziale assenza di cedimenti differenziali fondazionali.

I solai non mostrano deformazioni apprezzabili e le armature messe a nudo mediante i sondaggi, non mostrano segni di corrosione rilevante.

I.8. CAMPAGNA DI INDAGINE SUI MATERIALI

I.8.1. Generalità

Visti gli esiti della campagna di indagine predisposta in sede di valutazione della sicurezza, si è ritenuto opportuno integrarla con una ulteriore di cui alla tabella seguente.

Tabella 04 - Estremi relazione di indagine sui materiali

Titolo:	Indagini diagnostiche sulle strutture
Data:	ottobre 2014
Firma:	Ing. Giancarlo Maselli

I.8.2. Esito della campagna di indagine

Le indagine effettuate sono le seguenti:

a) n°6 prove non distruttive per la determinazione della resistenza del cls con metodo combinato “Sonreb” e “Pull-Out”;

b) n°6 analisi magnetometriche per il rilievo dei ferri di armatura nei pilastri;

c) n°1 saggio esplorativo per verifica diametri e posizione delle armature all'interno della lastra predalles;

d) n°5 prelievi di campioni di cls con carotaggio per la determinazione della resistenza cilindrica a compressione del cls.

Si riportano nel seguito le risultanze della campagna di indagine di cui alla lettera d).

Determinazione della resistenza a compressione secondo UNI EN 12390/3:2009

RISULTATI DELLE PROVE								
N	Contrassegno provini	Dimensioni diametro x altezza (mm)			Rapp. H/Ø	Massa Volumica (Kg/m³)	Resistenza Max. Unit. (Mpa)* f_c	Data di prelievo	Data prova
1	C.01 - TRAVE	94	x	94	1,00	2184	18,5	27/10/2014	05/11/2014
2	C.02 - TRAVE	94	x	85	0,90	2207	18,8	27/10/2014	05/11/2014
3	C.03 - PILASTRO	94	x	93	0,99	2198	15,7	27/10/2014	05/11/2014
4	C.04 - PILASTRO	94	x	94	1,00	2176	14,0	27/10/2014	05/11/2014
5	C.05 - PILASTRO	94	x	95	1,01	2358	31,3	27/10/2014	05/11/2014

(*) 1 MPa = 1N/mm² = 10,2 Kg/cm²
Prove eseguite secondo la normativa UNI EN 12390/3
Attrezzatura utilizzata:Pressa idraulica motorizzata "CONTROLS" da 3000 kN – mod. C50/51 - matricola 96113675 - Data ultima taratura: 15/05/14

OSSERVAZIONI :
Le facce di carico dei provini sono state preventivamente sottoposte a rettifica meccanica con mola diamantata.
Tipo di rottura soddisfacente.

Figura 16 - Esito delle prove distruttive sui provini di calcestruzzo

L'esito della nuova campagna integrativa conferma le carenze emerse in sede di valutazione della sicurezza.

I.9. LIVELLI DI CONOSCENZA E FATTORI DI CONFIDENZA

I.9.1. Esito verifiche ed indagini

Sulla base del rilievo effettuato si riassume quanto segue.

Tabella 05 - Esito verifiche ed indagini

Geometria e dettagli costruttivi [NTC § 8.5.2]	Verifiche in situ limitate
Caratterizzazione meccanica dei materiali [NTC § 8.5.3]	Indagini in situ estese

I.9.2. Livello di conoscenza e fattore di confidenza

Per quanto previsto da NTC § 8.5.4 e Circ. § C8A.1.B.3 il livello di conoscenza acquisito ed il corrispondente fattore di confidenza sono quelli riportati nella tabella seguente.

Tabella 06 - Livelli di conoscenza e fattori di confidenza secondo NTC2008

Livello di conoscenza [NTC § 8.5.4]	LC3
Fattore di confidenza [NTC § 8.5.4]	1,00

I.10. CARATTERIZZAZIONE DEI MATERIALI ESISTENTI

I.10.1. Calcestruzzo

Tabella 07 - Materiali esistenti: parametri meccanici del calcestruzzo

	classe di resistenza assimilata a	**C16/20**
f_{cm}	resistenza cilindrica media a compressione	16,0 N/mm^2
E_{cm}	modulo elastico	28´450 N/mm^2

I.10.2. Acciaio d'armatura

Tabella 08 - Materiali esistenti: parametri meccanici acciaio d'armatura

	tipo di acciaio assimilato a	**FeB44k**
f_{yk}	tensione caratteristica di snervamento	430 N/mm^2
f_{tk}	tensione caratteristica di rottura	540 N/mm^2
$Ø_{min}$	minimo diametro impiegato	Ø6 mm
$Ø_{max}$	massimo diametro impiegato	Ø24 mm

I.11. CARATTERIZZAZIONE DEI MATERIALI IN FORNITURA

I.11.1. Acciaio d'armatura

[NTC § 7.4.2.2 - NTC § 11.3.2]

Tabella 09 - Materiali in fornitura: parametri meccanici acciaio d'armatura

	tipo di acciaio	**B450C**
f_{yk}	tensione caratteristica di snervamento	≥ 450 N/mm^2
f_{tk}	tensione caratteristica di rottura	≥ 540 N/mm^2
$(A_{gt})_k$	allungamento	≥ 7,5 %
E	modulo elastico	200´000 N/mm^2
$Ø_{min}$	minimo diametro impiegato	Ø12 mm
$Ø_{max}$	massimo diametro impiegato	Ø20 mm

I.11.2. Acciaio da carpenteria

[NTC § 7.5.1 - NTC § 11.3.2]

Tabella 10 - Materiali in fornitura: parametri meccanici acciaio da carpenteria

	tipo di acciaio	**S275 JR**
t	spessore nominale dell'elemento	≤ 40 mm
f_{yk}	tensione caratteristica di snervamento	275 N/mm^2
f_{tk}	tensione caratteristica di rottura	430 N/mm^2
E	modulo elastico	210´000 N/mm^2
ν	coefficiente di Poisson	0,3
G	modulo di elasticità trasversale = E/[2·(1+ν)]	80´769 N/mm^2

	tipo di acciaio	**S275 JR**
α_t	coefficiente di dilatazione termica	$12 \cdot 10^{-6}$ °C^{-1}
γ_{Rd}	fattore di sovraresistenza	1,15

I.11.3. Acciaio nastri CAM

Tabella 11 - Materiali in fornitura: parametri meccanici acciaio da carpenteria

	tipo di acciaio	**Inox c1000**
f_{yk}	tensione caratteristica di snervamento	700 N/mm^2
f_{tk}	tensione caratteristica di rottura	1´000 N/mm^2
E	modulo elastico	205´000 N/mm^2
γ_{Rd}	fattore di sicurezza	1,10

PARTE - II AZIONI ED ANALISI DEI CARICHI

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II.1. AZIONE SISMICA

[NTC § 3.2]

II.1.1. Generalità

L'elemento di conoscenza primario per la determinazione delle azioni sismiche di progetto, in base alle quali valutare il rispetto dei diversi stati limite considerati, è la pericolosità sismica di base del sito di costruzione.

La pericolosità sismica è definita in termini di accelerazione orizzontale massima attesa in condizioni di campo libero su sito di riferimento rigido con superficie topografica orizzontale, nonché di ordinate dello spettro di risposta elastico in accelerazione ad essa corrispondente, con riferimento a prefissate probabilità di eccedenza, nel periodo di riferimento (Tabella 13).

[NTC Allegato A]

L'azione sismica così individuata viene successivamente variata, per tener conto delle modifiche prodotte dalle condizioni locali stratigrafiche del sottosuolo presente nel sito di costruzione e della morfologia della superficie. Le modiche caratterizzano la risposta sismica locale.

II.1.2. Localizzazione della struttura e periodo di riferimento

[NTC § 2.4.1 - NTC § 2.4.2 - NTC § 2.4.3]

Si riportano i parametri di localizzazione del sito di costruzione della struttura ed il periodo di riferimento per l'azione sismica connesso alla classe d'uso.

Tabella 12 - Localizzazione della struttura

Comune	TORINO
Provincia	TORINO
Regione	PIEMONTE
Longitudine	7.675530 E
Latitudine	45.047562 N
Altitudine	239 m s.l.m.

Tabella 13 - Periodo di riferimento per l'azione sismica

Vita V_N [anni]	Classe d'uso	Coefficiente d'uso	Periodo V_R [anni]
50	IV	2,0	100

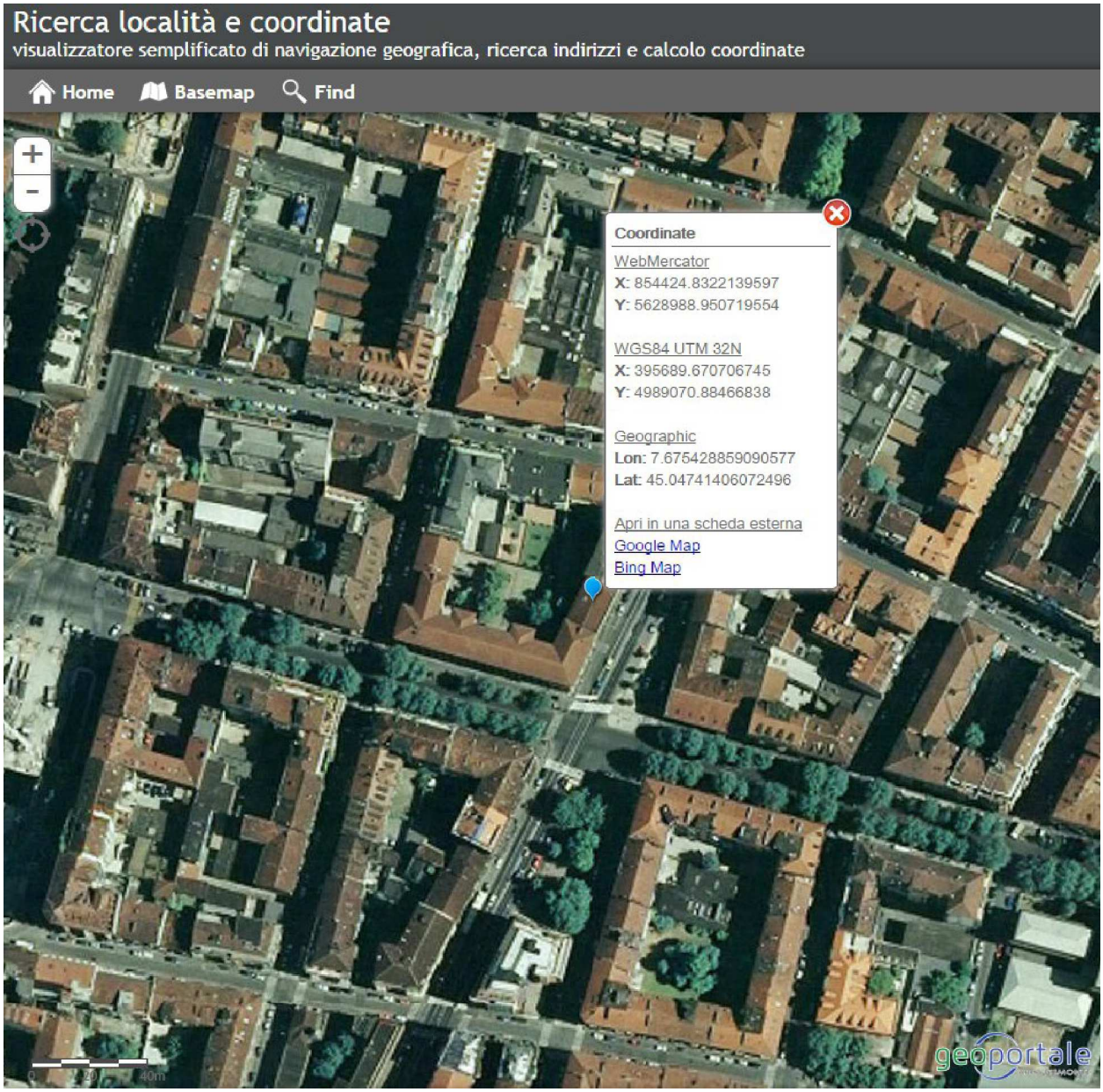

Figura 17 - Localizzazione intervento

II.1.3. Pericolosità sismica di base

[NTC Allegato A]

I parametri per le forme spettrali sono riassunti nella tabella seguente, in cui si riporta contestualmente, per ciascuna probabilità di superamento e ciascuno stato limite considerato, il periodo di ritorno dell'azione sismica, quale parametro caratterizzante la pericolosità sismica.

Tabella 14 - Parametri per le forme spettrali

Stato limite	P_{ver} [%]	T_R [anni]	a_g [g]	F_o	T^*_c [sec]	F_v
SLO	81	60	0,031	2,606	0,201	0,619
SLD	63	101	0,037	2,649	0,220	0,688
SLV	10	949	0,066	2,809	0,289	0,974
SLC	5	1´950	0,078	2,884	0,290	1,080

II.1.4. Valutazione dell'azione sismica locale

[NTC § 3.2.2]

Si denomina risposta sismica locale l'azione sismica quale emerge in superficie a seguito delle modifiche in ampiezza, durata e contenuto in frequenza subite trasmettendosi dal substrato rigido. Le modifiche citate corrispondono a:

- effetti stratigrafici, legati alla stratigrafia, alla proprietà meccanica dei terreni ecc.;
- effetti topografici, legati alla topografia del piano campagna.

Gli effetti della risposta sismica locale possono essere valutati con metodi semplificati nel caso in cui l'azione sismica in superficie è descritta dall'accelerazione massima o dallo spettro elastico di risposta, valutando preliminarmente gli effetti stratigrafici e topografici.

Si riporta la seguente tabella caratterizzante il sito ed il sedime di fondazione dal punto di vista sismico.

Tabella 15 - Categorie di sottosuolo e topografiche

	Categoria	Descrizione
Sottosuolo	B	Rocce tenere e depositi di terreni a grana grossa molto addensati o terreni a grana fina molto consistenti con spessori superiori a 30 m, caratterizzati da un graduale miglioramento delle proprietà meccaniche con la profondità e da valori di $V_{s,30}$ compresi tra 360 m/s e 800 m/s (ovvero $N_{SPT,30}$ > 50 nei terreni a grana grossa e $c_{u,30}$ > 250 kPa nei terreni a grana fina).
Topografia	T1	Superficie pianeggiante, pendii e rilievi isolati con inclinazione media i ≤ 15°

Tale caratterizzazione permette la determinazione dei relativi coefficienti correttivi, distinti per sisma orizzontale e verticale.

Tabella 16 - Coefficienti di amplificazione topografica e stratigrafica

Stato limite	$S_{S\|o}$	$S_{S\|v}$	S_T	C_C	S_o	S_v
SLO	1,20	1,00	1,00	1,516	1,20	1,00
SLD	1,20	1,00	1,00	1,489	1,20	1,00
SLV	1,20	1,00	1,00	1,410	1,20	1,00
SLC	1,20	1,00	1,00	1,409	1,20	1,00

Il moto sismico di ciascun punto del suolo al di sotto della costruzione può essere decomposto in componenti secondo tre direzioni ortogonali.

Per ciascuna componente dell'azione sismica viene fornita una rappresentazione mediante spettro di risposta elastico in accelerazione per uno smorzamento convenzionale del 5%. Ritenendo la costruzione di dimensioni limitate si può assumere che il moto sia lo stesso per tutti i punti al di sotto della stessa.

II.1.5. Spettro di risposta elastico in accelerazione delle componenti orizzontali

[NTC § 3.2.3.2.1]

Per ciascuno degli stati limite considerati si riportano i valori dei periodi notevoli dello spettro di risposta elastico in accelerazione delle componenti orizzontali.

Tabella 17 - Periodi notevoli per lo spettro di risposta elastico orizzontale

Stato limite	T_B	T_C	T_D
SLO	0,102	0,305	1,724
SLD	0,109	0,328	1,748
SLV	0,136	0,408	1,864
SLC	0,136	0,409	1,908

Per ciascuno degli stati limite considerati si riportano i valori delle accelerazioni spettrali per i periodi notevoli su calcolati.

Tabella 18 - Accelerazioni spettrali in componente orizzontale per periodi notevoli

Stato limite	$S_e(T)\|_{T=0}$	$S_e(T)\|_{T=T_B}$	$S_e(T)\|_{T=T_C}$	$S_e(T)\|_{T=T_D}$
SLO	0,037	0,097	0,097	0,017
SLD	0,044	0,115	0,115	0,022
SLV	0,079	0,222	0,222	0,049
SLC	0,092	0,266	0,266	0,057

I valori calcolati valgono per entrambe le direzioni principali nel piano orizzontale.

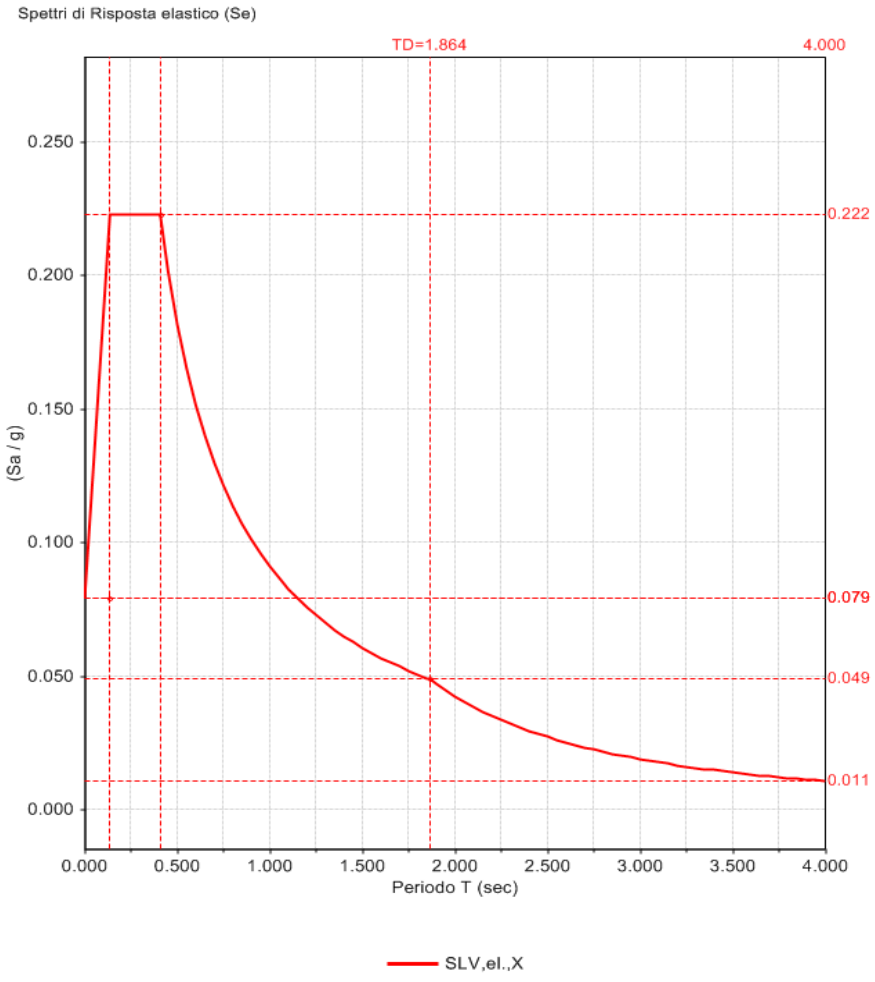

Figura 18 - Spettro elastico in componente orizzontale allo SLV

II.1.6. Spettro di risposta elastico in accelerazione della componente verticale

[NTC § 3.2.3.2.2]

Si riportano i valori dei periodi notevoli dello spettro di risposta elastico in accelerazione della componente verticale.

Tabella 19 - Periodi notevoli per lo spettro di risposta elastico verticale

Stato limite	T_B	T_C	T_D
Qualunque	0,05	0,15	1,00

Si riportano i valori delle accelerazioni spettrali per i periodi notevoli su calcolati.

Tabella 20 - Accelerazioni spettrali in componente verticale per periodi notevoli

Stato limite	$S_{ve}(T)\|_{T=0}$	$S_{ve}(T)\|_{T=T_B}$	$S_{ve}(T)\|_{T=T_C}$	$S_{ve}(T)\|_{T=T_D}$
SLO	0,031	0,019	0,019	0,002
SLD	0,037	0,025	0,025	0,004
SLV	0,066	0,064	0,064	0,010
SLC	0,083	0,077	0,077	0,012

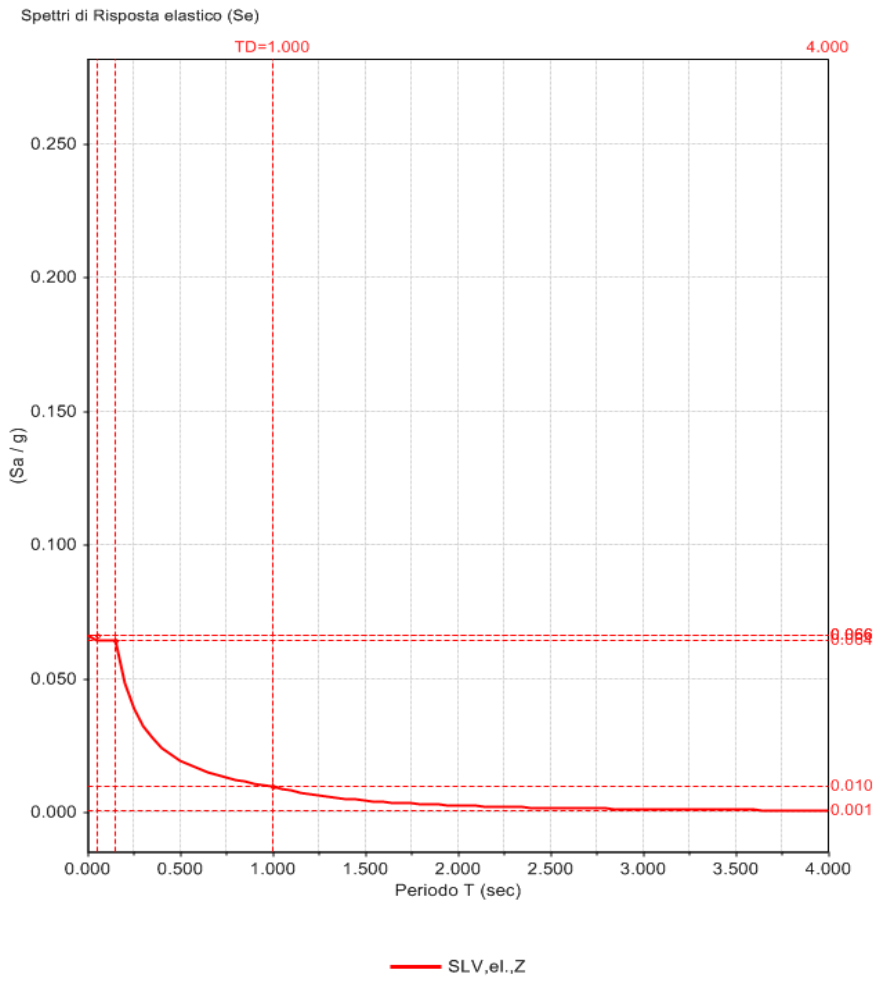

Figura 19 - Spettro elastico in componente verticale allo SLV

II.2. AZIONI DEL VENTO

[NTC § 3.3]

II.2.1. Pressione cinetica di riferimento

[NTC § 3.3.6]

Nella tabella seguente si riportano i parametri utili alla determinazione della velocità di riferimento del vento a 10 m dal suolo su un terreno di categoria II, mediata su 10 minuti e riferita ad un periodo di ritorno di 50 anni.

Tabella 21 - Parametri per velocità vento

Zona vento	$v_{b,0}$ [m/s]	a_0 [m]	k_a [1/s]
1	25	1000	0,01

Essendo il sito ad un'altitudine inferiore a 1000 m, ne conseguono i seguenti valori di velocità e pressione di riferimento per il tempo di ritorno di 50 anni.

Tabella 22 - Pressione cinetica di riferimento

v_b (50)	velocità di riferimento = $v_{b,0}$ per $a_s \leq a_0$	25 m/s
α_R (T_R)	coeff. correttivo = $0,75 \cdot \{1-0,2 \cdot \ln [-\ln (1-1/T_R)]\}^{0,5}$	1,00
v_b (T_R)	velocità di riferimento = $\alpha_R \cdot v_b$ (50)	25 m/s
q_b	pressione cinetica di riferimento = $½ \cdot \rho \cdot v_b^2$	0,39 kN/m^2

II.2.2. Coefficienti di topografia e di esposizione

[NTC § 3.3.7]

Il coefficiente di esposizione dipende dall'altezza dell'edificio, dalla topografia del terreno, e dalla categoria di esposizione del sito. Nella tabella seguente si riportano i parametri utili alla determinazione di tale coefficiente.

Tabella 23 - Parametri per coefficiente di esposizione

Classe di rugosità terreno	Cat. di esposizione del sito	k_r	Z_0 [m]	Z_{min} [m]
B	IV	0,22	0,3	8

Considerando un'altezza dell'edificio di 18 m, si ha il seguente coefficiente di esposizione.

Tabella 24 - Coefficienti di topografia e di esposizione

z	altezza sul suolo $z > z_{min}$	18 m
c_t	coeff. di topografia	1
c_e (z)	coeff. di esposizione = $k_r^2 \cdot c_t \cdot \ln (z/z_0) \cdot [7+c_t \cdot \ln (z/z_0)]$	2,20

II.2.3. Coefficienti di forma

[Circ. § C3.3.10.1]

La correzione del valore di pressione cinetica di riferimento in relazione all'aerodinamicità del fabbricato dovrà avvenire mediante coefficienti di forma validi per il caso di edifici a pianta rettangolare con copertura a falde. I coefficienti sono calcolati per il caso di costruzioni aventi una parete con aperture di superficie < 33% di quella totale.

Tabella 25 - Coefficienti di forma

	numero delle falde	2
α_1	pendenza prima falda	15°
α_2	pendenza seconda falda	15°
c_{pe} (+)	per elementi sopravento con α ≥ 60°	+0,80
c_{pe} (α_1)	per elementi sopravento con α < 20°	-0,40
c_{pe} (α_2)	per elementi sopravento con α < 20°	-0,40
c_{pe} (-)	per elementi sottovento	-0,40
c_{pi}	per parete con aperture di superficie < 33% del totale	±0,20

II.2.4. Pressioni del vento

[NTC § 3.3.4 - NTC § 3.3.5]

Le pressioni del vento si ottengono mediante correzione del valore di pressione cinetica di riferimento (Tabella 22), con i coefficienti calcolati in precedenza.

$$p_e = q_b \cdot c_e \cdot c_p \cdot c_d \qquad (f1)$$

dove i diversi termini hanno il significato seguente:

p_e	*pressione del vento*
q_b	*pressione cinetica di riferimento*
c_e	*coefficiente di esposizione*
c_p	*coefficiente di forma (aerodinamico)*
c_d	*coefficiente dinamico*

Tabella 26 - Pressioni del vento

p_e (+)	pressione su elementi soprav. con α ≥ 60° = 0,39·1·2,20·(+0,80)	+0,69 kN/m^2
p_e (α_1)	pressione su prima falda = 0,39·1·2,20·(-0,40)	-0,34 kN/m^2
p_e (α_2)	pressione su seconda falda = 0,39·1·2,20·(-0,40)	-0,34 kN/m^2
p_e (-)	pressione su elementi sottovento = 0,39·1·2,20·(-0,40)	-0,34 kN/m^2
p_i	pressione interna = 0,39·1·2,20·(±0,20)	±0,17 kN/m^2

[NTC § 3.3.8]

Cautelativamente è stato considerato un coefficiente dinamico unitario.

II.3. AZIONI DELLA NEVE

[NTC § 3.4]

II.3.1. Carico neve al suolo

[NTC § 3.4.2]

Il carico neve al suolo dipende dalle condizioni locali di clima e di esposizione, considerata la variabilità delle precipitazioni nevose da zona a zona.

Per il caso in esame, considerando una quota sul livello del mare > 200 m, ed assumendo valori associati ad un periodo di ritorno di 50 anni, si riporta la seguente tabella.

Tabella 27 - Carico neve al suolo

	zona neve	I-Alpina
q_{sk}	carico neve al suolo per $a_s > 200$: $1{,}39 \cdot [1+(a_s / 728)^2]$	1,54 kN/m^2

II.3.2. Coefficienti di esposizione e termico

[NTC § 3.4.3 - NTC § 3.4.4]

In funzione delle caratteristiche specifiche dell'area in cui sorge l'opera e considerando nulle, a favore di sicurezza, le perdite di calore dell'edificio, sono stati assunti i coefficienti di cui alla seguente tabella.

Tabella 28 - Coefficienti di esposizione e termico

Topografia	C_E	C_t
Normale: assenza di rimozione di neve da fattori esterni	1	1

II.3.3. Coefficiente di forma

[NTC § 3.4.5.1]

Si riportano in tabella i coefficienti di forma validi per il caso di copertura a due falde.

Tabella 29 - Coefficiente di forma

α_1	pendenza prima falda	15°
α_2	pendenza seconda falda	15°
$\mu_1(\alpha_1)$	per $0° \leq \alpha \leq 30°$	0,8
$\mu_1(\alpha_2)$	per $0° \leq \alpha \leq 30°$	0,8

II.3.4. Carico neve sulla copertura

[NTC § 3.4.1]

Il carico neve si ottiene mediante correzione del valore di carico neve al suolo (Tabella 27), con i coefficienti calcolati in precedenza, assumendo che la neve non sia impedita a scivolare.

$$q_s = \mu_i \cdot q_{sk} \cdot C_E \cdot C_t \qquad (f2)$$

dove i diversi termini hanno il significato seguente:

q_s	*carico della neve*
μ_i	*coefficiente di forma della copertura*
q_{sk}	*calore caratteristico del carico neve al suolo*
C_E	*coefficiente di esposizione*
C_t	*coefficiente termico*

Devono essere considerate le due seguenti principali disposizioni di carico:

- carico da neve depositata in assenza di vento (Caso I);
- carico da neve depositata in presenza di vento (Caso II, Caso III).

Si assume inoltre che la neve non sia impedita a scivolare. Nella tabella seguente si riassumono i carichi neve distinti per ciascuna delle disposizioni previste.

Tabella 30 - Condizioni di carico neve

$q_s = \mu\, q_{sk}\, C_E\, C_t$	$\mu_1(\alpha_1) \cdot q_{sk}$	$\mu_1(\alpha_2) \cdot q_{sk}$	$0{,}5\ \mu_1(\alpha_1) \cdot q_{sk}$	$0{,}5\ \mu_1(\alpha_2) \cdot q_{sk}$
	[kN/m^2]			
Caso I	1,23	1,23		
Caso II		1,23	0,62	
Caso III	1,23			0,62

Non sono previste zone di accumulo della neve.

II.4. ANALISI DEI CARICHI

II.4.1. Pesi unitari dei materiali

[NTC § 3.1.3.1]

Tabella 31 - Pesi dell'unità di volume dei materiali

Calcestruzzo ordinario	24,0 kN/m^3
Calcestruzzo armato	25,0 kN/m^3
Acciaio da carpenteria	78,5 kN/m^3
Tramezzature	11,0 kN/m^3

Per tutti i pesi non considerati si rimanda alle NTC § 3.1.3.1, Tabella 3.1.I.

II.4.2. Analisi dei carichi

Segue la tabella riassuntiva dei carichi per unità di superficie adottati nelle analisi di cui ai paragrafi successivi. Tali valori sono direttamente imputati come carichi in elementi solaio nelle analisi svolte con l'ausilio del software di calcolo.

Tabella 32 - Analisi dei carichi

PIANO TERRA			
	g_{k11}	peso proprio strutturale	4,50 kN/m^2
	g_{k12}	permanenti portati	3,00 kN/m^2
		$g_{k1\ TOT}$	7,50 kN/m^2
	q_{1k}	variabile Cat. C2	4,00 kN/m^2
PIANO PILOTIS			
	g_{k21}	peso proprio strutturale	3,30 kN/m^2
	g_{k22}	permanenti portati	1,50 kN/m^2
		$g_{k2\ TOT}$	4,80 kN/m^2
	q_{2k}	variabile Cat. C1	3,00 kN/m^2

PIANO TIPO

	g_{k31}	peso proprio strutturale	3,30 kN/m^2
	g_{k32}	permanenti portati	1,50 kN/m^2
		$g_{k3\ TOT}$	4,80 kN/m^2
	q_{3k}	variabile Cat. C1	3,00 kN/m^2
SOTTOTETTO			
	g_{k41}	peso proprio strutturale	3,30 kN/m^2
	g_{k42}	permanenti portati	0,00 kN/m^2
		$g_{k4\ TOT}$	3,30 kN/m^2
	q_{4k}	variabile Cat. H1	0,50 kN/m^2
COPERTURA			
	g_{k51}	peso proprio strutturale	2,60 kN/m^2
	g_{k52}	manto di copertura in tegole	0,80 kN/m^2
		$g_{k5\ TOT}$	3,40 kN/m^2
	q_{nk}	neve	1,23 kN/m^2

Peso della muratura centrale considerato pari a 8 kN/m di trave.

PARTE - III ANALISI STRUTTURALI

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III.1. GENERALITÀ

Il capitolo è dedicato all'esposizione dei risultati ottenuti dalle analisi condotte su modello globale di calcolo agli elementi finiti predisposto mediante apposito software di calcolo.

In particolare, per ciascuna delle analisi condotte, si riportano tabelle e diagrammi relativi alle caratteristiche di sollecitazione e deformazione utilizzate per il dimensionamento degli interventi di rinforzo.

III.2. IL CODICE DI CALCOLO

[NTC § 10.2]

III.2.1. Tipo e affidabilità

Tutte le analisi e le verifiche strutturali sono state eseguite mediante l'ausilio del software di calcolo agli elementi finiti, e suoi applicativi, di cui alla tabella seguente.

Tabella 33 - Origine e caratteristiche del codice di calcolo

Titolo	PRO_SAP PROfessional Structural Analysis Program
Versione	PRO_SAP RY2014(b) (vers. 13.0.0)
Produttore/distributore	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara

Un esame preliminare della documentazione a corredo del software ha consentito di valutarne l'affidabilità e l'idoneità al caso specifico. Tale documentazione contiene una esauriente descrizione delle basi teoriche e degli algoritmi impiegati, l'individuazione dei campi d'impiego, nonché casi di prova interamente risolti, commentati e corredati dei file di input necessari a riprodurre l'elaborazione. Inoltre la 2S.I. ha verificato l'affidabilità del codice di calcolo attraverso un numero significativo di casi di prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche.

É possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: *http://www.2si.it/Software/Affidabilità.htm*.

III.3. MODELLAZIONE STRUTTURALE

III.3.1. Il modello FEM

Seguono alcune immagini tratte dal modello di calcolo.

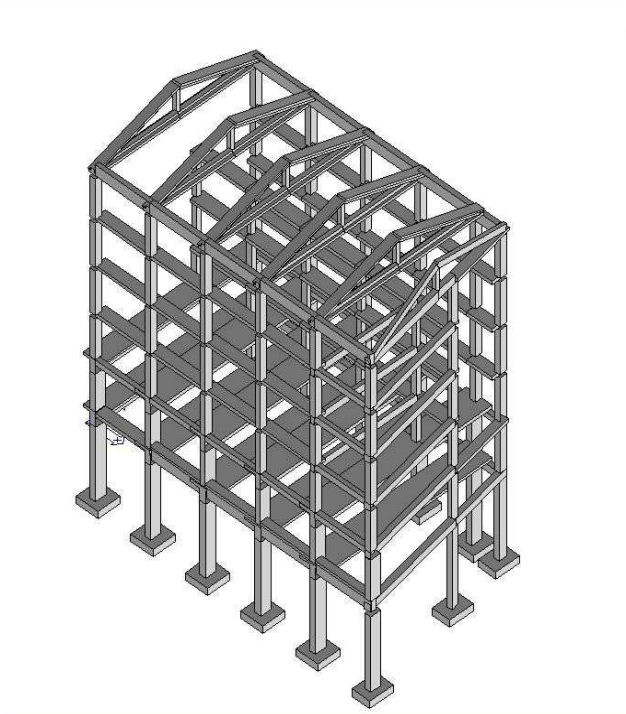


Figura 20 - Modello FEM: vista assonometrica 1

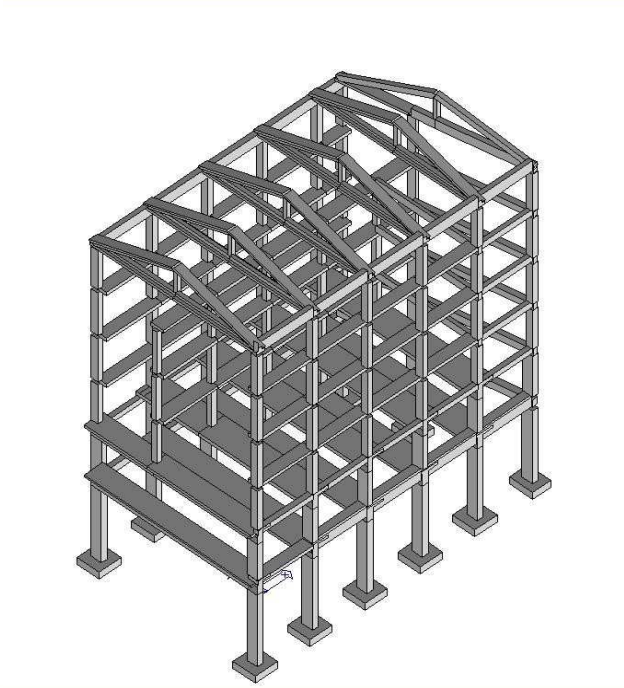


Figura 21 - Modello FEM: vista assonometrica 2

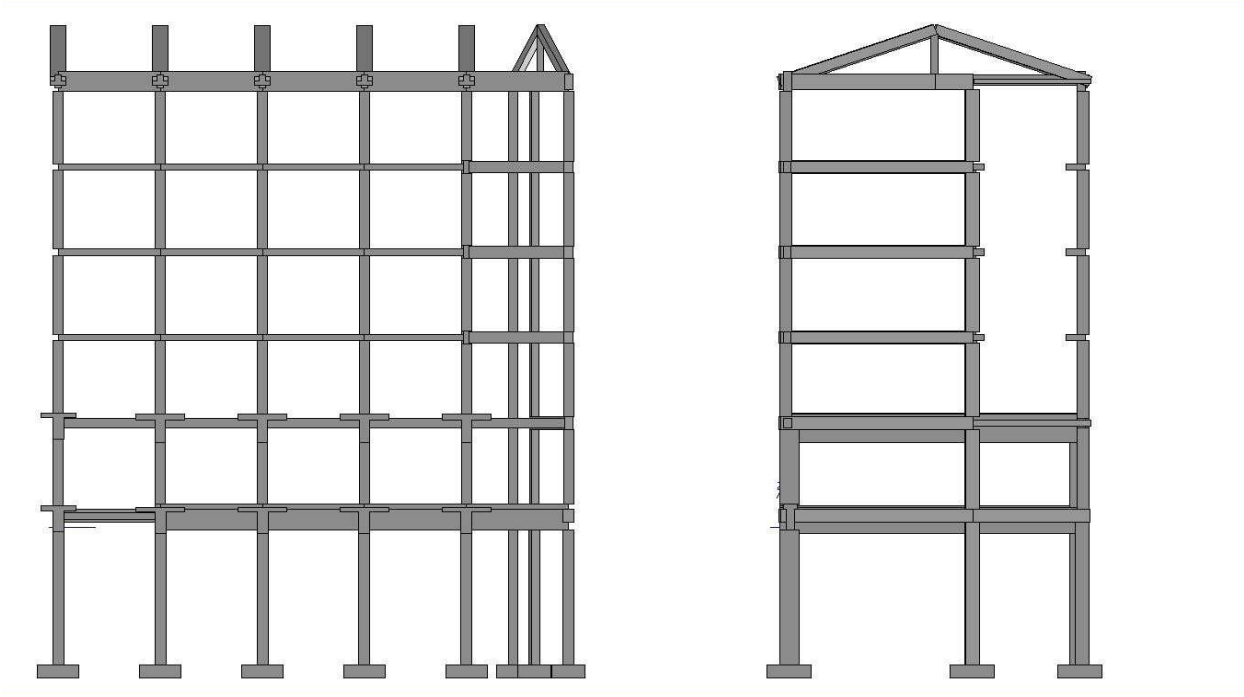


Figura 22 - Modello FEM: prospetto lato via Madama

Figura 23 - Modello FEM: sezione trasversale

All'interno del modello sono state considerate delle travi con sezione a doppio T, non visibili nelle immagini precedenti, per tenere in debito conto il contributo di resistenza flessionale del solaio di piano.

III.3.2. Sezioni

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

- sezione di tipo generico;
- profilati semplici;

- profilati accoppiati e speciali.

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

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

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

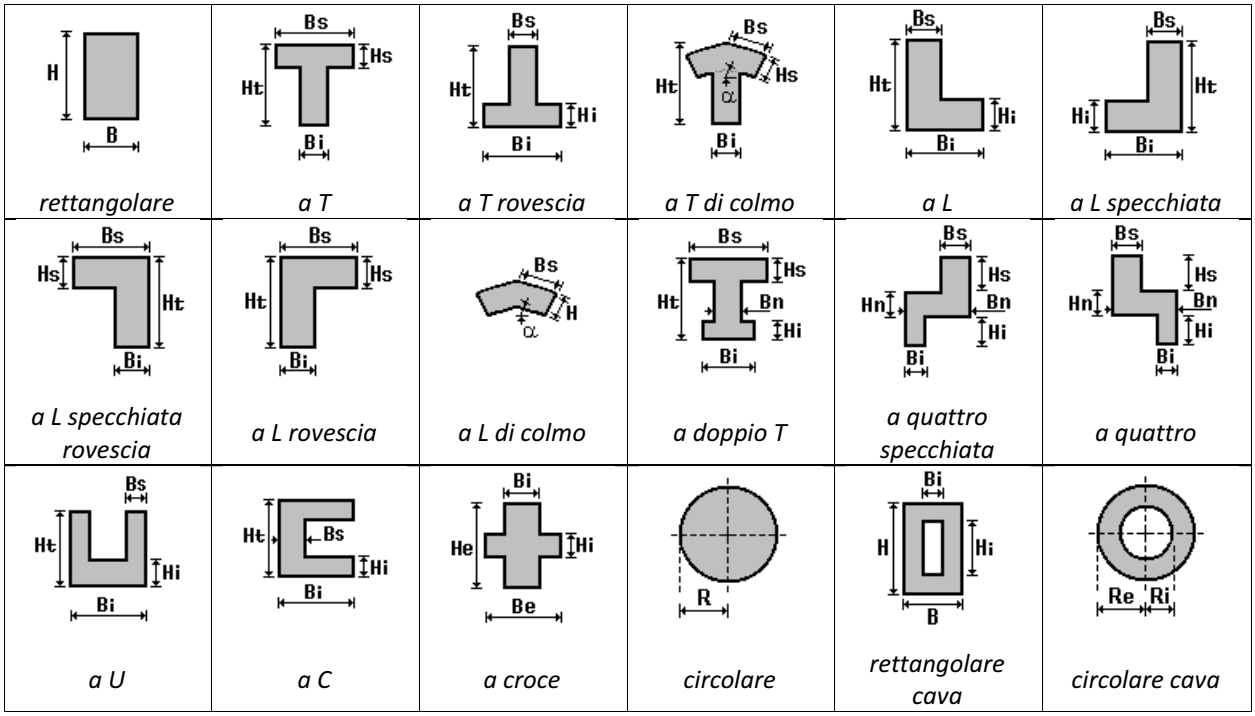


Tabella 34 - Modellazione sezioni

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
1	Rettangolare: b=35.00 h =45.00	1575.00	1312.50	1312.50	3.386e+05	1.608e+05	2.658e+05	9187.50	1.181e+04	1.378e+04	1.772e+04
2	Rettangolare: b=35.00 h =35.00	1225.00	1020.83	1020.83	2.109e+05	1.251e+05	1.251e+05	7145.83	7145.83	1.072e+04	1.072e+04
3	Rettangolare: b=35.00 h =70.00	2450.00	2041.67	2041.67	6.853e+05	2.501e+05	1.000e+06	1.429e+04	2.858e+04	2.144e+04	4.288e+04
4	Rettangolare: b=40.00 h =70.00	2800.00	2333.33	2333.33	9.557e+05	3.733e+05	1.143e+06	1.867e+04	3.267e+04	2.800e+04	4.900e+04
5	Rettangolare: b=85.00 h =24.00	2040.00	1700.00	1700.00	3.220e+05	1.228e+06	9.792e+04	2.890e+04	8160.00	4.335e+04	1.224e+04

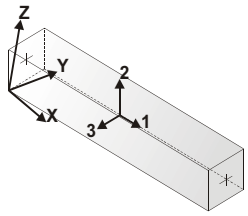
Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
6	Rettangolare: b=70.00 h =24.00	1680.00	1400.00	1400.00	2.529e+05	6.860e+05	8.064e+04	1.960e+04	6720.00	2.940e+04	1.008e+04
7	bi=35.00 ht=110.00 bs=175.00 hs=24.00	7210.00	0.0	0.0	1.994e+06	1.103e+07	7.361e+06	1.260e+05	9.809e+04	1.512e+05	1.177e+05
8	bi=40.00 ht=100.00 bs=175.00 hs=18.00	6430.00	0.0	0.0	1.914e+06	8.476e+06	5.940e+06	9.687e+04	9.070e+04	1.162e+05	1.088e+05
9	T ribassata: bi=25.00 ht=45.00 bs=55.00 hs=15.00	1575.00	0.0	0.0	2.036e+05	2.470e+05	2.706e+05	8982.95	1.010e+04	1.078e+04	1.212e+04
10	T rovescia: bi=55.00 ht=40.00 bs=25.00 hi=19.00	1570.00	0.0	0.0	2.247e+05	2.908e+05	1.905e+05	1.057e+04	8000.47	1.269e+04	9600.56
11	Rettangolare: b=25.00 h =25.00	625.00	520.83	520.83	5.491e+04	3.255e+04	3.255e+04	2604.17	2604.17	3906.25	3906.25
12	Rettangolare: b=25.00 h =50.00	1250.00	1041.67	1041.67	1.784e+05	6.510e+04	2.604e+05	5208.33	1.042e+04	7812.50	1.563e+04
14	Rettangolare: b=50.00 h =24.00	1200.00	1000.00	1000.00	1.607e+05	2.500e+05	5.760e+04	1.000e+04	4800.00	1.500e+04	7200.00
15	bi=40.00 ht=100.00 bs=127.50 hs=18.00	5575.00	0.0	0.0	1.822e+06	3.546e+06	5.275e+06	5.563e+04	8.566e+04	6.675e+04	1.028e+05
16	Rettangolare: b=30.00 h =50.00	1500.00	1250.00	1250.00	2.799e+05	1.125e+05	3.125e+05	7500.00	1.250e+04	1.125e+04	1.875e+04
17	Rettangolare: b=30.00 h =37.00	1110.00	925.00	925.00	1.697e+05	8.325e+04	1.266e+05	5550.00	6845.00	8325.00	1.027e+04

III.3.3. Elementi trave

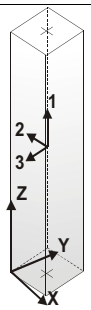
Il programma utilizza per la modellazione elementi a due nodi denominati in generale travi. Ogni elemento trave è individuato dal nodo iniziale e dal nodo finale. Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.

In particolare per ogni elemento viene indicato in tabella:

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



orientamento elementi 2D non verticali



orientamento elementi 2D verticali

Segue la modellazione degli elementi trave.

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Pilas.	1	14	52	4	90.00				
2	Pilas.	2	15	52	4	90.00				
3	Pilas.	3	16	52	4	90.00				
4	Pilas.	4	17	52	4	90.00				
5	Pilas.	5	18	52	4	90.00				
6	Pilas.	6	19	52	4	90.00				
7	Pilas.	7	20	52	26	100.00				
8	Pilas.	8	21	52	4	90.00				
9	Pilas.	9	22	52	4	90.00				
10	Pilas.	10	23	52	4	90.00				
11	Pilas.	11	24	52	4	90.00				
12	Pilas.	12	25	52	4	90.00				
13	Pilas.	13	26	52	28	90.00				
14	Trave	14	15	52	6					
15	Trave	15	16	52	29					
16	Trave	16	17	52	29					
17	Trave	17	18	52	29					
18	Trave	18	19	52	29					
19	Trave	20	19	52	27					
20	Trave	14	21	52	15					
21	Trave	15	22	52	8					
22	Trave	16	23	52	8					
23	Trave	17	24	52	8					
24	Trave	18	25	52	8					
25	Trave	26	20	52	16					
26	Trave	21	22	52	16					
27	Trave	22	23	52	16					
28	Trave	23	24	52	16					
29	Trave	24	25	52	16					
30	Trave	25	26	52	16					
31	Pilas.	14	27	52	3	90.00	000001			
32	Pilas.	15	28	52	3	90.00	000001			
33	Pilas.	16	29	52	3	90.00	000001			
34	Pilas.	17	30	52	3	90.00	000001			
35	Pilas.	18	31	52	3	90.00	000001			
36	Pilas.	19	32	52	3	90.00	000001			
37	Pilas.	20	38	52	12	100.00				
38	Pilas.	21	39	52	3	90.00	000001			
39	Pilas.	22	40	52	3	90.00	000001			
40	Pilas.	23	41	52	3	90.00	000001			
41	Pilas.	24	42	52	3	90.00	000001			
42	Pilas.	25	43	52	3	90.00	000001			
43	Pilas.	26	44	52	25	90.00				
44	Trave	27	28	52	17					
45	Trave	28	29	52	17					
46	Trave	29	30	52	17					
47	Trave	30	31	52	17					
48	Trave	31	32	52	17					
49	Trave	27	33	52	15					
50	Trave	28	34	52	7					
51	Trave	29	35	52	7					
52	Trave	30	36	52	7					
53	Trave	31	37	52	7					
54	Trave	38	32	52	16					
55	Trave	33	39	52	15					
56	Trave	34	40	52	7					
57	Trave	35	41	52	7					
58	Trave	36	42	52	7					
59	Trave	37	43	52	7					
60	Trave	44	38	52	14					
61	Trave	39	40	52	17					
62	Trave	40	41	52	17					
63	Trave	41	42	52	17					
64	Trave	42	43	52	17					
65	Trave	43	44	52	17					
66	Pilas.	27	45	52	1	90.00				
67	Pilas.	28	46	52	1	90.00				
68	Pilas.	29	47	52	1	90.00				
69	Pilas.	30	48	52	1	90.00				
70	Pilas.	31	49	52	1	90.00				

71	Pilas.	32	50	52	1	90.00
72	Pilas.	33	51	52	2	90.00
73	Pilas.	34	52	52	2	90.00
74	Pilas.	35	53	52	2	90.00
75	Pilas.	36	54	52	2	90.00
76	Pilas.	37	55	52	2	90.00
77	Pilas.	38	56	52	12	100.00
78	Pilas.	39	57	52	1	90.00
79	Pilas.	40	58	52	1	90.00
80	Pilas.	41	59	52	1	90.00
81	Pilas.	42	60	52	1	90.00
82	Pilas.	43	61	52	1	90.00
83	Pilas.	44	62	52	25	90.00
84	Trave	45	46	52	6	
85	Trave	46	47	52	6	
86	Trave	47	48	52	6	
87	Trave	48	49	52	6	
88	Trave	49	50	52	32	
93	Trave	49	55	52	19	
94	Trave	56	50	52	1	
95	Trave	51	52	52	5	
96	Trave	52	53	52	5	
97	Trave	53	54	52	5	
98	Trave	54	55	52	5	
99	Trave	55	56	52	5	
106	Trave	57	58	52	6	
107	Trave	58	59	52	6	
108	Trave	59	60	52	6	
109	Trave	60	61	52	6	
110	Trave	61	62	52	6	
111	Pilas.	45	63	52	1	90.00
112	Pilas.	46	64	52	1	90.00
113	Pilas.	47	65	52	1	90.00
114	Pilas.	48	66	52	1	90.00
115	Pilas.	49	67	52	1	90.00
116	Pilas.	50	68	52	1	90.00
117	Pilas.	51	69	52	22	90.00
118	Pilas.	52	70	52	22	90.00
119	Pilas.	53	71	52	22	90.00
120	Pilas.	54	72	52	22	90.00
121	Pilas.	55	73	52	22	90.00
122	Pilas.	56	74	52	12	100.00
123	Pilas.	57	75	52	1	90.00
124	Pilas.	58	76	52	1	90.00
125	Pilas.	59	77	52	1	90.00
126	Pilas.	60	78	52	1	90.00
127	Pilas.	61	79	52	1	90.00
128	Pilas.	62	80	52	25	90.00
129	Trave	63	64	52	6	
130	Trave	64	65	52	6	
131	Trave	65	66	52	6	
132	Trave	66	67	52	6	
133	Trave	67	68	52	32	
138	Trave	67	73	52	19	
139	Trave	74	68	52	1	
140	Trave	69	70	52	5	
141	Trave	70	71	52	5	
142	Trave	71	72	52	5	
143	Trave	72	73	52	5	
144	Trave	73	74	52	5	
151	Trave	75	76	52	6	
152	Trave	76	77	52	6	
153	Trave	77	78	52	6	
154	Trave	78	79	52	6	
155	Trave	79	80	52	6	
156	Pilas.	63	81	52	1	90.00
157	Pilas.	64	82	52	1	90.00
158	Pilas.	65	83	52	1	90.00
159	Pilas.	66	84	52	1	90.00
160	Pilas.	67	85	52	1	90.00
161	Pilas.	68	86	52	1	90.00
162	Pilas.	69	87	52	23	90.00
163	Pilas.	70	88	52	23	90.00
164	Pilas.	71	89	52	23	90.00
165	Pilas.	72	90	52	23	90.00
166	Pilas.	73	91	52	23	90.00
167	Pilas.	74	92	52	12	100.00
168	Pilas.	75	93	52	1	90.00
169	Pilas.	76	94	52	1	90.00
170	Pilas.	77	95	52	1	90.00
171	Pilas.	78	96	52	1	90.00
172	Pilas.	79	97	52	1	90.00
173	Pilas.	80	98	52	25	90.00
174	Trave	81	82	52	6	
175	Trave	82	83	52	6	
176	Trave	83	84	52	6	
177	Trave	84	85	52	6	
178	Trave	85	86	52	32	
183	Trave	85	91	52	19	
184	Trave	92	86	52	1	
185	Trave	87	88	52	5	
186	Trave	88	89	52	5	
187	Trave	89	90	52	5	
188	Trave	90	91	52	5	
189	Trave	91	92	52	5	
196	Trave	93	94	52	6	

197	Trave	94	95	52	6		
198	Trave	95	96	52	6		
199	Trave	96	97	52	6		
200	Trave	97	98	52	6		
201	Pilas.	81	99	52	1	90.00	000011
202	Pilas.	82	100	52	1	90.00	000011
203	Pilas.	83	101	52	1	90.00	000011
204	Pilas.	84	102	52	1	90.00	000011
205	Pilas.	85	103	52	1	90.00	000011
206	Pilas.	86	104	52	1	90.00	000011
207	Pilas.	92	111	52	12	100.00	
208	Pilas.	93	112	52	1	90.00	000011
209	Pilas.	94	113	52	1	90.00	000011
210	Pilas.	95	114	52	1	90.00	000011
211	Pilas.	96	115	52	1	90.00	000011
212	Pilas.	97	116	52	1	90.00	000011
213	Pilas.	98	117	52	25	90.00	000011
214	Trave	99	100	52	21		
215	Trave	100	101	52	21		
216	Trave	101	102	52	21		
217	Trave	102	103	52	21		
218	Trave	103	104	52	21		
219	Trave	99	105	52	10		
220	Trave	100	106	52	10		
221	Trave	101	107	52	10		
222	Trave	102	108	52	10		
223	Trave	103	109	52	10		
224	Trave	110	104	52	20		
225	Trave	111	110	52	20		
226	Trave	105	112	52	10		
227	Trave	106	113	52	10		
228	Trave	107	114	52	10		
229	Trave	108	115	52	10		
230	Trave	109	116	52	10		
231	Trave	117	111	52	31		
232	Trave	112	113	52	21		
233	Trave	113	114	52	21		
234	Trave	114	115	52	21		
235	Trave	115	116	52	21		
236	Trave	116	117	52	21		
237	Trave	99	118	52	9		
238	Trave	100	119	52	9		
239	Trave	101	120	52	9		
240	Trave	102	121	52	9		
241	Trave	103	122	52	9		
242	Trave	123	104	52	30		
243	Pilas.	105	118	52	11		
244	Pilas.	106	119	52	11		
245	Pilas.	107	120	52	11		
246	Pilas.	108	121	52	11		
247	Pilas.	109	122	52	11		
248	Pilas.	110	123	52	11		
249	Trave	118	112	52	9		
250	Trave	119	113	52	9		
251	Trave	120	114	52	9		
252	Trave	121	115	52	9		
253	Trave	122	116	52	9		
254	Trave	117	123	52	30		

III.3.4. Solai

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio. Ogni elemento solaio è individuato da una poligonale di nodi 1,2, ..., N.

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

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

Id. Arch.	*Identificativo dell'archivio*
Tipo	*Tipo di carico:* *Variab. Carico variabile generico* *Var. rid. Carico variabile generico con riduzione in funzione dell'area (c.5.5. …)*

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

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

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

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		kN/ m2	kN/ m2	kN/ m2							
1	Variab.	3.30	1.50	3.00		1.00	0.70	0.50	0.30	0.30	1.00
2	Variab.	4.50	3.00	4.00		1.00	0.70	0.50	0.30	0.30	1.00
3	Variab.	3.30		0.50		1.00	0.70	0.50	0.30	0.30	1.00
4	Neve	2.60	0.80	1.20		1.00	0.50	0.20	0.0	0.0	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						kN/ m2	kN/ m2	kN/ m2					
1	CM	2	m=52	10.0	0.0	4.50	3.00	4.00	18	19	20	26	25
2	CM	2	m=52	10.0	0.0	4.50	3.00	4.00	14	15	22	21	
3	CM	2	m=52	10.0	0.0	4.50	3.00	4.00	15	16	23	22	
4	CM	2	m=52	10.0	0.0	4.50	3.00	4.00	16	17	24	23	
5	CM	2	m=52	10.0	0.0	4.50	3.00	4.00	17	18	25	24	
6	CM	1	m=52	10.0	0.0	3.30	1.50	3.00	31	32	38	44	43
									37				
7	CM	1	m=52	10.0	0.0	3.30	1.50	3.00	27	28	34	40	39
									33				
8	CM	1	m=52	10.0	0.0	3.30	1.50	3.00	28	29	35	41	40
									34				
9	CM	1	m=52	10.0	0.0	3.30	1.50	3.00	29	30	36	42	41
									35				
10	CM	1	m=52	10.0	0.0	3.30	1.50	3.00	30	31	37	43	42
									36				
11	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	49	50	56	55	
12	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	45	46	52	51	
13	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	46	47	53	52	
14	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	47	48	54	53	
15	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	48	49	55	54	
16	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	55	56	62	61	
17	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	51	52	58	57	
18	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	52	53	59	58	
19	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	53	54	60	59	
20	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	54	55	61	60	
21	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	67	68	74	73	
22	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	63	64	70	69	
23	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	64	65	71	70	
24	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	65	66	72	71	
25	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	66	67	73	72	
26	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	73	74	80	79	
27	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	69	70	76	75	
28	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	70	71	77	76	
29	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	71	72	78	77	
30	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	72	73	79	78	
31	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	85	86	92	91	

32	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	81	82	88	87
33	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	82	83	89	88
34	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	83	84	90	89
35	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	84	85	91	90
36	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	91	92	98	97
37	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	87	88	94	93
38	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	88	89	95	94
39	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	89	90	96	95
40	CM	1	m=52	10.0	90.0	3.30	1.50	3.00	90	91	97	96
41	CM	3	m=52	10.0	0.0	3.30		0.50	103	104	110	109
42	CM	3	m=52	10.0	0.0	3.30		0.50	99	100	106	105
43	CM	3	m=52	10.0	0.0	3.30		0.50	100	101	107	106
44	CM	3	m=52	10.0	0.0	3.30		0.50	101	102	108	107
45	CM	3	m=52	10.0	0.0	3.30		0.50	102	103	109	108
46	CM	3	m=52	10.0	0.0	3.30		0.50	109	110	117	116
47	CM	3	m=52	10.0	0.0	3.30		0.50	105	106	113	112
48	CM	3	m=52	10.0	0.0	3.30		0.50	106	107	114	113
49	CM	3	m=52	10.0	0.0	3.30		0.50	107	108	115	114
50	CM	3	m=52	10.0	0.0	3.30		0.50	108	109	116	115
51	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	104	123	122	103
52	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	100	119	118	99
53	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	101	120	119	100
54	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	102	121	120	101
55	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	103	122	121	102
56	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	118	119	113	112
57	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	119	120	114	113
58	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	120	121	115	114
59	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	121	122	116	115
60	CM	4	m=52	10.0	0.0	2.60	0.80	1.20	122	123	117	116

III.4. CASI DI CARICO E LORO COMBINAZIONI

III.4.1. Casi di carico

Il software permette l'organizzazione dei carichi analizzati al precedente § II.4. in casi di carico, da intendersi come “scatole” nelle quali riporre i carichi appartenenti ad un medesimo tipo e per i quali si voglia la contemporaneità di azione nelle diverse combinazioni definite. Nella tabella seguente sono riportati i casi di carico definiti.

Tabella 35 - Casi di carico

CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qsk	CDC=Qsk (variabile solai)	
5	Qnk	CDC=Qnk (carico da neve)	
6	Qvk	CDC=Qvk (carico da vento)	D2 :da 14 a 18 Azione : DG:Fyi=-2.00 Fyf=-2.00 _sopravento Y
			D2 :da 26 a 30 Azione : DG:Fyi=-1.00 Fyf=-1.00 _sottovento
			D2 :da 44 a 48 Azione : DG:Fyi=-2.00 Fyf=-2.00 _sopravento Y
			D2 :da 61 a 65 Azione : DG:Fyi=-1.00 Fyf=-1.00 _sottovento
			D2 :da 84 a 88 Azione : DG:Fyi=-2.00 Fyf=-2.00 _sopravento Y
			D2 :da 106 a 110 Azione : DG:Fyi=-1.00 Fyf=-1.00 _sottovento
			D2 :da 129 a 133 Azione : DG:Fyi=-2.00 Fyf=-2.00 _sopravento Y
			D2 :da 151 a 155 Azione : DG:Fyi=-1.00 Fyf=-1.00 _sottovento
			D2 :da 174 a 178 Azione : DG:Fyi=-2.00 Fyf=-2.00 _sopravento Y
			D2 :da 196 a 200 Azione : DG:Fyi=-1.00 Fyf=-1.00 _sottovento
			D2 :da 214 a 218 Azione : DG:Fyi=-2.00 Fyf=-2.00 _sopravento Y
			D2 :da 232 a 236 Azione : DG:Fyi=-1.00 Fyf=-1.00 _sottovento
7	Gk	CDC=G1k (permanente generico)	D2 :da 14 a 18 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 26 a 30 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 44 a 48 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 61 a 65 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 84 a 88 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate

CDC	Tipo	Sigla Id	Note
			D2 :da 95 a 99 Azione : DG:Fzi=-8.00 Fzf=-8.00 _tramezzo
			D2 :da 106 a 110 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 129 a 133 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 140 a 144 Azione : DG:Fzi=-8.00 Fzf=-8.00 _tramezzo
			D2 :da 151 a 155 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 174 a 178 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 185 a 189 Azione : DG:Fzi=-8.00 Fzf=-8.00 _tramezzo
			D2 :da 196 a 200 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 214 a 218 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
			D2 :da 232 a 236 Azione : DG:Fzi=-2.00 Fzf=-2.00 _facciate
8	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=Qsk (variabile solai)
			partecipazione:1.00 per 5 CDC=Qnk (carico da neve)
			partecipazione:1.00 per 7 CDC=G1k (permanente generico)
9	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
10	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
11	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico

III.4.2. Combinazioni di carico

Il programma combina in diversi casi di carico nelle combinazioni di carico previste dalla normativa. La descrizione delle combinazioni è articolata in due tabelle: la prima riporta l'elenco delle combinazioni adottate, la seconda riporta i pesi che i diversi casi di carico assumono in ciascuna combinazione.

Tabella 36 - Combinazioni di carico

Cmb	Tipo	Sigla Id
1	SLU	Comb. SLU A1 1
2	SLU	Comb. SLU A1 2
3	SLU	Comb. SLU A1 3
4	SLU	Comb. SLU A1 4
5	SLU	Comb. SLU A1 5
6	SLU	Comb. SLU A1 6
7	SLU	Comb. SLU A1 7
8	SLU	Comb. SLU A1 8
9	SLU	Comb. SLU A1 9
10	SLU	Comb. SLU A1 10
11	SLU	Comb. SLU A1 11
12	SLU	Comb. SLU A1 12
13	SLU	Comb. SLU A1 13
14	SLU	Comb. SLU A1 14
15	SLU	Comb. SLU A1 15
16	SLU	Comb. SLU A1 16
17	SLU	Comb. SLU A1 17
18	SLU	Comb. SLU A1 18
19	SLU	Comb. SLU A1 19
20	SLU	Comb. SLU A1 20
21	SLU	Comb. SLU A1 21

Cmb	Tipo	Sigla Id
22	SLU	Comb. SLU A1 22
23	SLU	Comb. SLU A1 (SLV sism.) 23
24	SLU	Comb. SLU A1 (SLV sism.) 24
25	SLU	Comb. SLU A1 (SLV sism.) 25
26	SLU	Comb. SLU A1 (SLV sism.) 26
27	SLU	Comb. SLU A1 (SLV sism.) 27
28	SLU	Comb. SLU A1 (SLV sism.) 28
29	SLU	Comb. SLU A1 (SLV sism.) 29
30	SLU	Comb. SLU A1 (SLV sism.) 30
31	SLU	Comb. SLU A1 (SLV sism.) 31
32	SLU	Comb. SLU A1 (SLV sism.) 32
33	SLU	Comb. SLU A1 (SLV sism.) 33
34	SLU	Comb. SLU A1 (SLV sism.) 34
35	SLU	Comb. SLU A1 (SLV sism.) 35
36	SLU	Comb. SLU A1 (SLV sism.) 36
37	SLU	Comb. SLU A1 (SLV sism.) 37
38	SLU	Comb. SLU A1 (SLV sism.) 38
39	SLU	Comb. SLU A1 (SLV sism.) 39
40	SLU	Comb. SLU A1 (SLV sism.) 40
41	SLU	Comb. SLU A1 (SLV sism.) 41
42	SLU	Comb. SLU A1 (SLV sism.) 42
43	SLU	Comb. SLU A1 (SLV sism.) 43
44	SLU	Comb. SLU A1 (SLV sism.) 44
45	SLU	Comb. SLU A1 (SLV sism.) 45
46	SLU	Comb. SLU A1 (SLV sism.) 46
47	SLU	Comb. SLU A1 (SLV sism.) 47
48	SLU	Comb. SLU A1 (SLV sism.) 48
49	SLU	Comb. SLU A1 (SLV sism.) 49
50	SLU	Comb. SLU A1 (SLV sism.) 50
51	SLU	Comb. SLU A1 (SLV sism.) 51
52	SLU	Comb. SLU A1 (SLV sism.) 52
53	SLU	Comb. SLU A1 (SLV sism.) 53
54	SLU	Comb. SLU A1 (SLV sism.) 54
55	SLE(p)	Comb. SLE(perm.) 55
56	SLE(p)	Comb. SLE(perm.) 56

Tabella 37 - Pesi delle CDC nelle diverse Cmb

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.30	1.50	0.0	0.0	0.90	1.30	0.0	0.0	0.0	0.0			
2	1.30	1.30	1.50	0.0	0.75	0.90	1.30	0.0	0.0	0.0	0.0			
3	1.30	1.30	1.50	1.50	0.0	0.90	1.30	0.0	0.0	0.0	0.0			
4	1.30	1.30	1.50	1.50	0.75	0.90	1.30	0.0	0.0	0.0	0.0			
5	1.00	1.00	0.0	0.0	0.0	0.90	1.00	0.0	0.0	0.0	0.0			
6	1.00	1.00	0.0	0.0	0.75	0.90	1.00	0.0	0.0	0.0	0.0			
7	1.00	1.00	0.0	1.50	0.0	0.90	1.00	0.0	0.0	0.0	0.0			
8	1.00	1.00	0.0	1.50	0.75	0.90	1.00	0.0	0.0	0.0	0.0			
9	1.30	1.30	1.50	0.0	1.50	0.90	1.30	0.0	0.0	0.0	0.0			
10	1.30	1.30	1.50	1.05	0.0	0.90	1.30	0.0	0.0	0.0	0.0			
11	1.30	1.30	1.50	1.05	1.50	0.90	1.30	0.0	0.0	0.0	0.0			
12	1.00	1.00	0.0	0.0	1.50	0.90	1.00	0.0	0.0	0.0	0.0			
13	1.00	1.00	0.0	1.05	0.0	0.90	1.00	0.0	0.0	0.0	0.0			
14	1.00	1.00	0.0	1.05	1.50	0.90	1.00	0.0	0.0	0.0	0.0			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
15	1.30	1.30	1.50	0.0	0.0	1.50	1.30	0.0	0.0	0.0	0.0			
16	1.30	1.30	1.50	0.0	0.75	1.50	1.30	0.0	0.0	0.0	0.0			
17	1.30	1.30	1.50	1.05	0.0	1.50	1.30	0.0	0.0	0.0	0.0			
18	1.30	1.30	1.50	1.05	0.75	1.50	1.30	0.0	0.0	0.0	0.0			
19	1.00	1.00	0.0	0.0	0.0	1.50	1.00	0.0	0.0	0.0	0.0			
20	1.00	1.00	0.0	0.0	0.75	1.50	1.00	0.0	0.0	0.0	0.0			
21	1.00	1.00	0.0	1.05	0.0	1.50	1.00	0.0	0.0	0.0	0.0			
22	1.00	1.00	0.0	1.05	0.75	1.50	1.00	0.0	0.0	0.0	0.0			
23	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	-0.30	0.0			
24	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	0.30	0.0			
25	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	-0.30	0.0			
26	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	0.30	0.0			
27	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	0.0	-0.30			
28	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	0.0	0.30			
29	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	0.0	-0.30			
30	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	0.0	0.30			
31	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	-0.30	0.0			
32	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	0.30	0.0			
33	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	-0.30	0.0			
34	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	0.30	0.0			
35	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	0.0	-0.30			
36	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	0.0	0.30			
37	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	0.0	-0.30			
38	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	0.0	0.30			
39	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	-1.00	0.0			
40	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	1.00	0.0			
41	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.30	0.0	-1.00	0.0			
42	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.30	0.0	1.00	0.0			
43	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-0.30	-1.00	0.0			
44	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-0.30	1.00	0.0			
45	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.30	-1.00	0.0			
46	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.30	1.00	0.0			
47	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	0.0	-1.00			
48	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	0.0	1.00			
49	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.30	0.0	0.0	-1.00			
50	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.30	0.0	0.0	1.00			
51	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-0.30	0.0	-1.00			
52	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-0.30	0.0	1.00			
53	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.30	0.0	-1.00			
54	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.30	0.0	1.00			
55	1.00	1.00	1.00	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0			
56	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0			
1	1.30	1.30	1.50	0.0	0.0	0.90	1.30	0.0	0.0	0.0	0.0			
2	1.30	1.30	1.50	0.0	0.75	0.90	1.30	0.0	0.0	0.0	0.0			
3	1.30	1.30	1.50	1.50	0.0	0.90	1.30	0.0	0.0	0.0	0.0			
4	1.30	1.30	1.50	1.50	0.75	0.90	1.30	0.0	0.0	0.0	0.0			
5	1.00	1.00	0.0	0.0	0.0	0.90	1.00	0.0	0.0	0.0	0.0			
6	1.00	1.00	0.0	0.0	0.75	0.90	1.00	0.0	0.0	0.0	0.0			
7	1.00	1.00	0.0	1.50	0.0	0.90	1.00	0.0	0.0	0.0	0.0			
8	1.00	1.00	0.0	1.50	0.75	0.90	1.00	0.0	0.0	0.0	0.0			
9	1.30	1.30	1.50	0.0	1.50	0.90	1.30	0.0	0.0	0.0	0.0			
10	1.30	1.30	1.50	1.05	0.0	0.90	1.30	0.0	0.0	0.0	0.0			
11	1.30	1.30	1.50	1.05	1.50	0.90	1.30	0.0	0.0	0.0	0.0			
12	1.00	1.00	0.0	0.0	1.50	0.90	1.00	0.0	0.0	0.0	0.0			
13	1.00	1.00	0.0	1.05	0.0	0.90	1.00	0.0	0.0	0.0	0.0			
14	1.00	1.00	0.0	1.05	1.50	0.90	1.00	0.0	0.0	0.0	0.0			
15	1.30	1.30	1.50	0.0	0.0	1.50	1.30	0.0	0.0	0.0	0.0			
16	1.30	1.30	1.50	0.0	0.75	1.50	1.30	0.0	0.0	0.0	0.0			
17	1.30	1.30	1.50	1.05	0.0	1.50	1.30	0.0	0.0	0.0	0.0			
18	1.30	1.30	1.50	1.05	0.75	1.50	1.30	0.0	0.0	0.0	0.0			
19	1.00	1.00	0.0	0.0	0.0	1.50	1.00	0.0	0.0	0.0	0.0			
20	1.00	1.00	0.0	0.0	0.75	1.50	1.00	0.0	0.0	0.0	0.0			
21	1.00	1.00	0.0	1.05	0.0	1.50	1.00	0.0	0.0	0.0	0.0			
22	1.00	1.00	0.0	1.05	0.75	1.50	1.00	0.0	0.0	0.0	0.0			
23	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	-0.30	0.0			
24	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	0.30	0.0			
25	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	-0.30	0.0			
26	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	0.30	0.0			
27	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	0.0	-0.30			

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
28	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	0.0	0.30			
29	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	0.0	-0.30			
30	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	0.0	0.30			
31	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	-0.30	0.0			
32	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	0.30	0.0			
33	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	-0.30	0.0			
34	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	0.30	0.0			
35	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	0.0	-0.30			
36	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	0.0	0.30			
37	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	0.0	-0.30			
38	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	0.0	0.30			
39	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	-1.00	0.0			
40	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	1.00	0.0			
41	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.30	0.0	-1.00	0.0			
42	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.30	0.0	1.00	0.0			
43	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-0.30	-1.00	0.0			
44	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-0.30	1.00	0.0			
45	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.30	-1.00	0.0			
46	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.30	1.00	0.0			
47	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	0.0	-1.00			
48	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	0.0	1.00			
49	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.30	0.0	0.0	-1.00			
50	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.30	0.0	0.0	1.00			
51	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-0.30	0.0	-1.00			
52	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-0.30	0.0	1.00			
53	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.30	0.0	-1.00			
54	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.30	0.0	1.00			
55	1.00	1.00	1.00	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0			
56	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	0.0	0.0	0.0			
1	1.30	1.30	1.50	0.0	0.0	0.90	1.30	0.0	0.0	0.0	0.0			
2	1.30	1.30	1.50	0.0	0.75	0.90	1.30	0.0	0.0	0.0	0.0			
3	1.30	1.30	1.50	1.50	0.0	0.90	1.30	0.0	0.0	0.0	0.0			
4	1.30	1.30	1.50	1.50	0.75	0.90	1.30	0.0	0.0	0.0	0.0			
5	1.00	1.00	0.0	0.0	0.0	0.90	1.00	0.0	0.0	0.0	0.0			
6	1.00	1.00	0.0	0.0	0.75	0.90	1.00	0.0	0.0	0.0	0.0			
7	1.00	1.00	0.0	1.50	0.0	0.90	1.00	0.0	0.0	0.0	0.0			
8	1.00	1.00	0.0	1.50	0.75	0.90	1.00	0.0	0.0	0.0	0.0			
9	1.30	1.30	1.50	0.0	1.50	0.90	1.30	0.0	0.0	0.0	0.0			
10	1.30	1.30	1.50	1.05	0.0	0.90	1.30	0.0	0.0	0.0	0.0			
11	1.30	1.30	1.50	1.05	1.50	0.90	1.30	0.0	0.0	0.0	0.0			
12	1.00	1.00	0.0	0.0	1.50	0.90	1.00	0.0	0.0	0.0	0.0			
13	1.00	1.00	0.0	1.05	0.0	0.90	1.00	0.0	0.0	0.0	0.0			
14	1.00	1.00	0.0	1.05	1.50	0.90	1.00	0.0	0.0	0.0	0.0			
15	1.30	1.30	1.50	0.0	0.0	1.50	1.30	0.0	0.0	0.0	0.0			
16	1.30	1.30	1.50	0.0	0.75	1.50	1.30	0.0	0.0	0.0	0.0			
17	1.30	1.30	1.50	1.05	0.0	1.50	1.30	0.0	0.0	0.0	0.0			
18	1.30	1.30	1.50	1.05	0.75	1.50	1.30	0.0	0.0	0.0	0.0			
19	1.00	1.00	0.0	0.0	0.0	1.50	1.00	0.0	0.0	0.0	0.0			
20	1.00	1.00	0.0	0.0	0.75	1.50	1.00	0.0	0.0	0.0	0.0			
21	1.00	1.00	0.0	1.05	0.0	1.50	1.00	0.0	0.0	0.0	0.0			
22	1.00	1.00	0.0	1.05	0.75	1.50	1.00	0.0	0.0	0.0	0.0			
23	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	-0.30	0.0			
24	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	0.30	0.0			
25	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	-0.30	0.0			
26	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	0.30	0.0			
27	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	0.0	-0.30			
28	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-1.00	0.0	0.0	0.30			
29	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	0.0	-0.30			
30	1.00	1.00	1.00	0.30	0.0	0.0	1.00	1.00	0.0	0.0	0.30			
31	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	-0.30	0.0			
32	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	0.30	0.0			
33	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	-0.30	0.0			
34	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	0.30	0.0			
35	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	0.0	-0.30			
36	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	-1.00	0.0	0.30			
37	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	0.0	-0.30			
38	1.00	1.00	1.00	0.30	0.0	0.0	1.00	0.0	1.00	0.0	0.30			
39	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	-1.00	0.0			
40	1.00	1.00	1.00	0.30	0.0	0.0	1.00	-0.30	0.0	1.00	0.0			

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

III.5. TIPI DI ANALISI CONDOTTE

III.5.1. Generalità

Sono state condotte le analisi seguenti:

- analisi statica non sismica;
- analisi dinamica lineare sismica.

III.5.2. Analisi non sismica

In questo tipo di analisi l'edificio è stato sottoposto alle azioni esterne gravitazionali quali carichi variabili e neve, ed orizzontali quali vento, secondo le combinazioni di stato limite già esposte.

III.5.3. Analisi dinamica modale

É stata altresì condotta un'analisi sismica di tipo lineare dinamica che consiste nel:

- determinare i modi di vibrare della costruzione (analisi modale);
- calcolare gli effetti dell'azione sismica, rappresentata dallo spettro di risposta di progetto, per ciascuno dei modi di vibrare individuati;
- combinare gli effetti ottenuti.

Sono stati considerati tutti i modi di vibrare con massa partecipante superiore al 5%, in numero tale da ottenere una massa partecipante complessiva superiore all'85% per ciascuna delle tre direzioni spaziali.

III.6. RISULTATI ANALISI SISMICHE

III.6.1. Generalità

Nel seguito si riportano i risultati delle analisi sismiche in forma tabellare per ciascuno dei casi di carico sismici. Ciascuno di essi è caratterizzato da un angolo di ingresso e da una configurazione di masse determinante la forza sismica complessiva.

Sono riportati inoltre i parametri fondamentali che caratterizzano l'azione sismica; in particolare possono essere presenti i seguenti valori:

Angolo di ingresso	*Angolo di ingresso dell'azione sismica orizzontale*
Fattore di importanza	*Fattore di importanza dell'edificio, in base alla categoria di appartenenza*

Zona sismica	*Zona sismica*
Accelerazione ag	*Accelerazione orizzontale massima sul suolo*
Categoria suolo	*Categoria di profilo stratigrafico del suolo di fondazione*
Fattore di struttura q	*Fattore dipendente dalla tipologia strutturale*
Fattore di sito S	*Fattore dipendente dalla stratigrafia e dal profilo topografico*
Classe di duttilità CD	*Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa*
Fattore riduzione SLD	*Fattore di riduzione dello spettro elastico per lo stato limite di danno*
Periodo proprio T1	*Periodo proprio di vibrazione della struttura*
Coefficiente Lambda	*Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura*
Ordinata spettro Sd(T1)	*Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale S_{vd})*
Ordinata spettro Se(T1)	*Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)*
Ordinata spettro S (T_b -T_c)	*Valore dell'ordinata dello spettro in uso nel tratto costante*
numero di modi considerati	*Numero di modi di vibrare della struttura considerati nell'analisi dinamica*

Seguono tabelle dei risultati.

III.6.2. Risultati allo SLV

CDC	Tipo	Sigla Id	Note
8	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.149 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 1.525 sec.
			fattore di struttura q: 1.500
			fattore per spost. mu d: 1.500
			classe di duttilità CD: B
			numero di modi considerati: 20

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
1277.28	8865.55	882.58	364.00	0.0	0.0	937.78	364.22	1.390	0.064	2.1981e-04
19.25	497.80	8.72	5.63	0.0	0.0	9.10	5.63	1.204	0.063	0.0
17.25	1794.01	8.83	5.48	0.0	-0.56	9.71	5.67	1.190	0.118	0.020
13.95	1793.92	9.01	5.68	0.0	-0.56	9.51	5.86	1.169	0.068	0.020
10.65	1815.58	8.99	5.69	0.0	-0.56	9.48	5.95	1.166	0.067	0.029
7.35	1822.28	8.98	5.70	0.0	-0.56	9.36	5.99	1.153	0.052	0.033
4.05	2542.17	8.57	5.56	0.0	-0.56	8.81	5.51	1.057	0.037	0.004
0.45	3300.18	8.71	5.41	0.0	-0.56	8.86	5.43	1.082	0.022	0.002
Risulta	1.357e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.656	1.525	0.040	1.220e+04	90.0	0.94	6.95e-03	0.16	1.18e-03	0.0	0.0
2	0.905	1.105	0.055	0.05	3.68e-04	5985.51	44.1	0.96	7.09e-03	0.0	0.0
3	1.158	0.863	0.070	63.73	0.5	706.44	5.2	0.08	5.89e-04	0.0	0.0
4	1.745	0.573	0.106	1142.05	8.4	9.59	7.07e-02	0.52	3.80e-03	0.0	0.0
5	2.838	0.352	0.149	0.51	3.77e-03	1733.86	12.8	1.22	8.97e-03	0.0	0.0
6	3.131	0.319	0.149	121.05	0.9	75.02	0.6	0.38	2.77e-03	0.0	0.0
7	3.510	0.285	0.149	12.47	9.19e-02	212.33	1.6	0.06	4.76e-04	0.0	0.0
8	5.485	0.182	0.149	2.09	1.54e-02	945.78	7.0	0.69	5.07e-03	0.0	0.0
9	5.591	0.179	0.149	15.22	0.1	202.11	1.5	0.08	5.70e-04	0.0	0.0
10	6.075	0.165	0.149	0.03	2.34e-04	5.09e-03	3.75e-05	9268.33	68.3	0.0	0.0
11	6.471	0.155	0.149	0.83	6.13e-03	75.55	0.6	2.36	1.74e-02	0.0	0.0
12	6.819	0.147	0.149	0.08	5.94e-04	0.91	6.71e-03	165.58	1.2	0.0	0.0

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
13	7.804	0.128	0.145	0.02	1.76e-04	2.37	1.74e-02	1308.41	9.6	0.0	0.0
14	8.361	0.120	0.140	0.17	1.25e-03	12.17	8.97e-02	590.32	4.4	0.0	0.0
15	8.503	0.118	0.139	0.33	2.46e-03	23.73	0.2	496.27	3.7	0.0	0.0
16	8.737	0.114	0.138	3.03	2.23e-02	0.40	2.98e-03	0.33	2.43e-03	0.0	0.0
17	8.828	0.113	0.137	0.06	4.30e-04	2.84	2.09e-02	180.62	1.3	0.0	0.0
18	9.320	0.107	0.134	0.07	5.44e-04	212.87	1.6	41.35	0.3	0.0	0.0
19	9.853	0.101	0.131	0.03	2.08e-04	9.76e-03	7.19e-05	0.13	9.56e-04	0.0	0.0
20	10.540	0.095	0.128	4.23e-04	3.12e-06	27.40	0.2	898.51	6.6	0.0	0.0
Risulta				1.356e+04		1.023e+04		1.296e+04			
In %				**99.99**		**75.41**		**95.51**			

CDC	Tipo	Sigla Id	Note
9	Edk	CDC=Ed (dinamico SLU) alfa=0.0 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.149 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 1.525 sec.
			fattore di struttura q: 1.500
			fattore per spost. mu d: 1.500
			classe di duttilità CD: B
			numero di modi considerati: 20

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
19.25	497.80	8.72	5.63	0.0	0.0	9.10	5.63	1.204	0.063	0.0
17.25	1794.01	8.83	5.48	0.0	0.56	9.71	5.67	1.190	0.118	0.020
13.95	1793.92	9.01	5.68	0.0	0.56	9.51	5.86	1.169	0.068	0.020
10.65	1815.58	8.99	5.69	0.0	0.56	9.48	5.95	1.166	0.067	0.029
7.35	1822.28	8.98	5.70	0.0	0.56	9.36	5.99	1.153	0.052	0.033
4.05	2542.17	8.57	5.56	0.0	0.56	8.81	5.51	1.057	0.037	0.004
0.45	3300.18	8.71	5.41	0.0	0.56	8.86	5.43	1.082	0.022	0.002
Risulta	1.357e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.656	1.525	0.040	1.222e+04	90.1	6.11	4.50e-02	0.18	1.30e-03	0.0	0.0
2	0.906	1.104	0.055	25.14	0.2	6005.02	44.3	0.92	6.76e-03	0.0	0.0
3	1.166	0.857	0.071	3.04	2.24e-02	684.07	5.0	0.11	7.77e-04	0.0	0.0
4	1.742	0.574	0.106	1162.69	8.6	10.06	7.41e-02	0.50	3.68e-03	0.0	0.0
5	2.839	0.352	0.149	6.98	5.15e-02	1733.59	12.8	1.45	1.07e-02	0.0	0.0
6	3.193	0.313	0.149	126.19	0.9	51.34	0.4	0.05	3.56e-04	0.0	0.0
7	3.475	0.288	0.149	4.46e-03	3.29e-05	234.46	1.7	0.15	1.14e-03	0.0	0.0
8	5.452	0.183	0.149	6.56	4.83e-02	816.96	6.0	5.01e-03	3.69e-05	0.0	0.0
9	5.664	0.177	0.149	12.10	8.92e-02	342.82	2.5	4.20	3.09e-02	0.0	0.0
10	6.075	0.165	0.149	0.06	4.30e-04	0.03	1.91e-04	9265.99	68.3	0.0	0.0
11	6.498	0.154	0.149	2.64e-03	1.95e-05	63.01	0.5	1.76	1.30e-02	0.0	0.0
12	6.819	0.147	0.149	0.08	6.19e-04	0.74	5.49e-03	165.35	1.2	0.0	0.0
13	7.804	0.128	0.145	0.02	1.81e-04	2.22	1.64e-02	1308.92	9.6	0.0	0.0
14	8.364	0.120	0.140	0.13	9.31e-04	14.25	0.1	588.28	4.3	0.0	0.0
15	8.491	0.118	0.139	0.58	4.24e-03	16.01	0.1	461.37	3.4	0.0	0.0
16	8.751	0.114	0.138	2.91	2.15e-02	19.29	0.1	50.54	0.4	0.0	0.0
17	8.826	0.113	0.137	2.32e-04	1.71e-06	2.26	1.67e-02	178.33	1.3	0.0	0.0
18	9.370	0.107	0.134	0.14	1.03e-03	203.46	1.5	27.98	0.2	0.0	0.0
19	9.846	0.102	0.131	0.05	3.34e-04	0.34	2.49e-03	1.22e-03	9.02e-06	0.0	0.0
20	10.540	0.095	0.128	2.38e-04	1.75e-06	28.82	0.2	904.38	6.7	0.0	0.0
Risulta				1.356e+04		1.023e+04		1.296e+04			
In %				**99.99**		**75.45**		**95.54**			

CDC	Tipo	Sigla Id	Note
10	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.149 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 1.077 sec.
			fattore di struttura q: 1.500
			fattore per spost. mu d: 1.500
			classe di duttilità CD: B
			numero di modi considerati: 20

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
19.25	497.80	8.72	5.63	0.88	0.0	9.10	5.63	1.204	0.063	0.0
17.25	1794.01	8.83	5.48	0.93	0.0	9.71	5.67	1.190	0.118	0.020
13.95	1793.92	9.01	5.68	0.93	0.0	9.51	5.86	1.169	0.068	0.020
10.65	1815.58	8.99	5.69	0.93	0.0	9.48	5.95	1.166	0.067	0.029
7.35	1822.28	8.98	5.70	0.93	0.0	9.36	5.99	1.153	0.052	0.033
4.05	2542.17	8.57	5.56	0.93	0.0	8.81	5.51	1.057	0.037	0.004
0.45	3300.18	8.71	5.41	0.93	0.0	8.86	5.43	1.082	0.022	0.002
Risulta	1.357e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.656	1.523	0.040	1.223e+04	90.2	2.99	2.20e-02	0.17	1.25e-03	0.0	0.0
2	0.929	1.077	0.056	9.01	6.64e-02	6655.56	49.1	1.04	7.67e-03	0.0	0.0
3	1.142	0.876	0.069	6.15	4.53e-02	89.58	0.7	3.19e-03	2.35e-05	0.0	0.0
4	1.743	0.574	0.106	1161.95	8.6	9.08	6.69e-02	0.52	3.84e-03	0.0	0.0
5	2.936	0.341	0.149	4.29	3.16e-02	1956.57	14.4	1.66	1.22e-02	0.0	0.0
6	3.178	0.315	0.149	120.39	0.9	30.65	0.2	0.04	2.59e-04	0.0	0.0
7	3.386	0.295	0.149	7.48	5.51e-02	14.89	0.1	0.05	3.74e-04	0.0	0.0
8	5.585	0.179	0.149	10.39	7.66e-02	520.72	3.8	0.26	1.91e-03	0.0	0.0
9	5.669	0.176	0.149	7.65	5.64e-02	646.67	4.8	6.80	5.01e-02	0.0	0.0
10	6.074	0.165	0.149	0.04	2.87e-04	1.06	7.85e-03	9208.48	67.9	0.0	0.0
11	6.352	0.157	0.149	0.19	1.38e-03	22.20	0.2	58.32	0.4	0.0	0.0
12	6.819	0.147	0.149	0.09	6.50e-04	0.78	5.79e-03	164.56	1.2	0.0	0.0
13	7.804	0.128	0.145	0.02	1.67e-04	2.31	1.71e-02	1308.25	9.6	0.0	0.0
14	8.363	0.120	0.140	0.14	1.03e-03	14.05	0.1	582.74	4.3	0.0	0.0
15	8.506	0.118	0.139	0.34	2.54e-03	25.52	0.2	507.90	3.7	0.0	0.0
16	8.797	0.114	0.137	3.02	2.23e-02	5.03	3.70e-02	1.59	1.17e-02	0.0	0.0
17	8.829	0.113	0.137	0.17	1.27e-03	1.85	1.37e-02	186.33	1.4	0.0	0.0
18	9.561	0.105	0.133	0.01	9.67e-05	224.57	1.7	34.82	0.3	0.0	0.0
19	9.851	0.102	0.131	0.04	2.75e-04	0.79	5.85e-03	0.88	6.51e-03	0.0	0.0
20	10.547	0.095	0.128	1.38e-03	1.02e-05	36.35	0.3	882.29	6.5	0.0	0.0
Risulta				1.356e+04		1.026e+04		1.295e+04			
In %				**99.99**		**75.64**		**95.44**			

CDC	Tipo	Sigla Id	Note
11	Edk	CDC=Ed (dinamico SLU) alfa=90.00 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: B
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.149 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 1.153 sec.
			fattore di struttura q: 1.500
			fattore per spost. mu d: 1.500
			classe di duttilità CD: B
			numero di modi considerati: 20

Quota	M Sismica x g	Pos. GX	Pos. GY	E agg. X-X	E agg. Y-Y	Pos. KX	Pos. KY	rapp. r/Ls	rapp. ex/rx	rapp. ey/ry
m	kN	m	m	m	m	m	m			
19.25	497.80	8.72	5.63	-0.88	0.0	9.10	5.63	1.204	0.063	0.0
17.25	1794.01	8.83	5.48	-0.93	0.0	9.71	5.67	1.190	0.118	0.020
13.95	1793.92	9.01	5.68	-0.93	0.0	9.51	5.86	1.169	0.068	0.020
10.65	1815.58	8.99	5.69	-0.93	0.0	9.48	5.95	1.166	0.067	0.029
7.35	1822.28	8.98	5.70	-0.93	0.0	9.36	5.99	1.153	0.052	0.033
4.05	2542.17	8.57	5.56	-0.93	0.0	8.81	5.51	1.057	0.037	0.004
0.45	3300.18	8.71	5.41	-0.93	0.0	8.86	5.43	1.082	0.022	0.002
Risulta	1.357e+04									

Modo	Frequenza	Periodo	Acc. Spettrale	M efficace X x g	%	M efficace Y x g	%	M efficace Z x g	%	Energia	Energia x v
	Hz	sec	g	kN		kN		kN			
1	0.656	1.523	0.040	1.223e+04	90.2	3.24	2.39e-02	0.17	1.25e-03	0.0	0.0
2	0.868	1.153	0.053	4.79	3.53e-02	5491.49	40.5	0.77	5.68e-03	0.0	0.0
3	1.218	0.821	0.074	12.87	9.49e-02	1140.84	8.4	0.29	2.15e-03	0.0	0.0
4	1.744	0.574	0.106	1158.47	8.5	11.40	8.41e-02	0.49	3.58e-03	0.0	0.0
5	2.699	0.371	0.149	0.49	3.64e-03	1662.25	12.3	1.04	7.64e-03	0.0	0.0
6	3.176	0.315	0.149	129.61	1.0	3.42	2.52e-02	0.23	1.69e-03	0.0	0.0
7	3.670	0.272	0.149	1.95	1.44e-02	366.84	2.7	0.42	3.10e-03	0.0	0.0
8	5.232	0.191	0.149	0.29	2.14e-03	1088.50	8.0	0.38	2.81e-03	0.0	0.0
9	5.623	0.178	0.149	17.79	0.1	1.76	1.30e-02	1.69	1.25e-02	0.0	0.0
10	6.075	0.165	0.149	0.05	3.82e-04	0.10	7.68e-04	9269.94	68.3	0.0	0.0
11	6.796	0.147	0.149	0.21	1.58e-03	120.26	0.9	70.38	0.5	0.0	0.0
12	6.827	0.146	0.149	5.28e-03	3.89e-05	50.08	0.4	99.55	0.7	0.0	0.0
13	7.804	0.128	0.145	0.03	1.87e-04	2.45	1.81e-02	1303.51	9.6	0.0	0.0
14	8.363	0.120	0.140	0.10	7.51e-04	10.31	7.60e-02	607.22	4.5	0.0	0.0
15	8.486	0.118	0.140	0.41	3.05e-03	5.77	4.26e-02	387.75	2.9	0.0	0.0
16	8.797	0.114	0.137	2.84	2.10e-02	30.57	0.2	61.25	0.5	0.0	0.0
17	8.812	0.113	0.137	0.11	8.24e-04	22.15	0.2	243.61	1.8	0.0	0.0
18	8.877	0.113	0.137	0.23	1.70e-03	173.57	1.3	1.32	9.75e-03	0.0	0.0
19	9.852	0.102	0.131	0.03	2.48e-04	0.58	4.31e-03	0.07	4.93e-04	0.0	0.0
20	10.535	0.095	0.128	2.68e-06	0.0	24.99	0.2	911.95	6.7	0.0	0.0
Risulta				1.356e+04		1.021e+04		1.296e+04			
In %				**99.99**		**75.27**		**95.55**			

III.7. CARATTERISTICHE DI SOLLECITAZIONE

III.7.1. Generalità

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

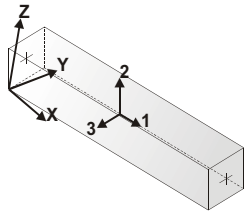
- tipo pilastro;
- tipo trave in elevazione;
- tipo trave in fondazione.

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

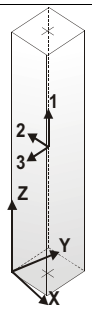
gnificativi. Per gli elementi tipo *pilastro* e *trave* sono riportati in tabella i seguenti valori:

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

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



orientamento elementi 2D non verticali



orientamento elementi 2D verticali

III.7.2. Pilastri

Seguono i risultati dei pilastri.

Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		kN m	kN m	m	kN	cm	kN	kN	kN	kN m	kN m	kN m
1	1	5.67	7.17	6.49e-04	0.0	0.0	-1170.99	-24.70	1.93	0.14	-3.91	5.67
		-136.61	-3.91	-4.91e-04	0.0	576.0	-1118.57	-24.70	1.93	0.14	7.17	-136.61
1	2	5.67	7.19	6.49e-04	0.0	0.0	-1184.01	-24.71	1.93	0.14	-3.94	5.67
		-136.64	-3.94	-4.94e-04	0.0	576.0	-1131.60	-24.71	1.93	0.14	7.19	-136.64
1	3	7.21	9.09	8.25e-04	0.0	0.0	-1493.18	-31.42	2.48	0.17	-5.18	7.21
		-173.78	-5.18	-6.66e-04	0.0	576.0	-1440.77	-31.42	2.48	0.17	9.09	-173.78
1	4	7.21	9.11	8.25e-04	0.0	0.0	-1506.21	-31.43	2.48	0.17	-5.20	7.21
		-173.82	-5.20	-6.70e-04	0.0	576.0	-1453.80	-31.43	2.48	0.17	9.11	-173.82
1	5	3.48	4.89	3.98e-04	0.0	0.0	-744.32	-15.15	1.28	0.10	-2.49	3.48
		-83.79	-2.49	-2.98e-04	0.0	576.0	-704.00	-15.15	1.28	0.10	4.89	-83.79
1	6	3.48	4.91	3.98e-04	0.0	0.0	-757.35	-15.16	1.29	0.10	-2.51	3.48
		-83.83	-2.51	-3.02e-04	0.0	576.0	-717.03	-15.16	1.29	0.10	4.91	-83.83
1	7	5.02	6.81	5.74e-04	0.0	0.0	-1066.52	-21.87	1.83	0.14	-3.76	5.02
		-120.97	-3.76	-4.74e-04	0.0	576.0	-1026.20	-21.87	1.83	0.14	6.81	-120.97
1	8	5.02	6.83	5.75e-04	0.0	0.0	-1079.55	-21.88	1.84	0.14	-3.78	5.02
		-121.00	-3.78	-4.77e-04	0.0	576.0	-1039.23	-21.88	1.84	0.14	6.83	-121.00
1	9	5.67	7.21	6.49e-04	0.0	0.0	-1197.04	-24.71	1.94	0.14	-3.96	5.67
		-136.68	-3.96	-4.98e-04	0.0	576.0	-1144.63	-24.71	1.94	0.14	7.21	-136.68
1	10	6.74	8.51	7.72e-04	0.0	0.0	-1396.53	-29.41	2.31	0.16	-4.80	6.74
		-162.63	-4.80	-6.14e-04	0.0	576.0	-1344.11	-29.41	2.31	0.16	8.51	-162.63
1	11	6.75	8.55	7.73e-04	0.0	0.0	-1422.58	-29.42	2.33	0.16	-4.84	6.75
		-162.70	-4.84	-6.21e-04	0.0	576.0	-1370.16	-29.42	2.33	0.16	8.55	-162.70
1	12	3.48	4.93	3.98e-04	0.0	0.0	-770.38	-15.16	1.30	0.10	-2.53	3.48
		-83.86	-2.53	-3.05e-04	0.0	576.0	-730.06	-15.16	1.30	0.10	4.93	-83.86
1	13	4.55	6.24	5.22e-04	0.0	0.0	-969.86	-19.86	1.67	0.13	-3.38	4.55
		-109.82	-3.38	-4.21e-04	0.0	576.0	-929.54	-19.86	1.67	0.13	6.24	-109.82
1	14	4.56	6.27	5.22e-04	0.0	0.0	-995.92	-19.87	1.68	0.13	-3.42	4.56
		-109.88	-3.42	-4.28e-04	0.0	576.0	-955.60	-19.87	1.68	0.13	6.27	-109.88
1	15	5.83	7.70	6.67e-04	0.0	0.0	-1148.07	-25.41	2.03	0.17	-4.02	5.83
		-140.54	-4.02	-4.88e-04	0.0	576.0	-1095.65	-25.41	2.03	0.17	7.70	-140.54
1	16	5.83	7.72	6.68e-04	0.0	0.0	-1161.09	-25.42	2.04	0.17	-4.04	5.83
		-140.58	-4.04	-4.92e-04	0.0	576.0	-1108.68	-25.42	2.04	0.17	7.72	-140.58
1	17	6.91	9.05	7.91e-04	0.0	0.0	-1373.60	-30.12	2.42	0.19	-4.90	6.91
		-166.56	-4.90	-6.11e-04	0.0	576.0	-1321.19	-30.12	2.42	0.19	9.05	-166.56
1	18	6.91	9.06	7.91e-04	0.0	0.0	-1386.63	-30.12	2.43	0.19	-4.92	6.91
		-166.60	-4.92	-6.15e-04	0.0	576.0	-1334.22	-30.12	2.43	0.19	9.06	-166.60
1	19	3.64	5.43	4.17e-04	0.0	0.0	-721.40	-15.86	1.39	0.13	-2.59	3.64
		-87.73	-2.59	-3.01e-04	0.0	576.0	-681.08	-15.86	1.39	0.13	5.43	-87.73
1	20	3.64	5.44	4.17e-04	0.0	0.0	-734.43	-15.87	1.40	0.13	-2.61	3.64
		-87.76	-2.61	-3.04e-04	0.0	576.0	-694.11	-15.87	1.40	0.13	5.44	-87.76
1	21	4.72	6.77	5.40e-04	0.0	0.0	-946.94	-20.57	1.78	0.15	-3.48	4.72
		-113.75	-3.48	-4.19e-04	0.0	576.0	-906.62	-20.57	1.78	0.15	6.77	-113.75
1	22	4.72	6.78	5.40e-04	0.0	0.0	-959.97	-20.57	1.79	0.15	-3.50	4.72
		-113.78	-3.50	-4.22e-04	0.0	576.0	-919.65	-20.57	1.79	0.15	6.78	-113.78
1	23	4.45	71.30	5.10e-04	0.0	0.0	-829.36	-19.42	-26.88	0.32	71.30	4.45
		-107.41	-83.62	0.01	0.0	576.0	-789.04	-19.42	-26.88	0.32	-83.62	-107.41
1	24	4.15	73.50	4.75e-04	0.0	0.0	-873.48	-18.08	-28.00	0.31	73.50	4.15

		-100.01	-87.92	0.01	0.0	576.0	-833.16	-18.08	-28.00	0.31	-87.92	-100.01
1	25	4.56	98.28	5.22e-04	0.0	0.0	-1070.21	-19.88	30.87	-0.15	-79.65	4.56
		-109.92	-79.65	-0.01	0.0	576.0	-1029.89	-19.88	30.87	-0.15	98.28	-109.92
1	26	4.25	93.98	4.87e-04	0.0	0.0	-1114.33	-18.54	29.74	-0.17	-77.45	4.25
		-102.52	-77.45	-0.01	0.0	576.0	-1074.01	-18.54	29.74	-0.17	93.98	-102.52
1	27	4.48	73.42	5.13e-04	0.0	0.0	-828.85	-19.53	-28.07	0.33	73.42	4.48
		-108.00	-88.50	0.01	0.0	576.0	-788.53	-19.53	-28.07	0.33	-88.50	-108.00
1	28	4.12	71.38	4.72e-04	0.0	0.0	-873.98	-17.98	-26.81	0.30	71.38	4.12
		-99.42	-83.03	0.01	0.0	576.0	-833.66	-17.98	-26.81	0.30	-83.03	-99.42
1	29	4.58	93.39	5.25e-04	0.0	0.0	-1069.71	-19.98	29.67	-0.14	-77.53	4.58
		-110.51	-77.53	-0.01	0.0	576.0	-1029.39	-19.98	29.67	-0.14	93.39	-110.51
1	30	4.23	98.86	4.84e-04	0.0	0.0	-1114.84	-18.43	30.94	-0.18	-79.56	4.23
		-101.93	-79.56	-0.01	0.0	576.0	-1074.52	-18.43	30.94	-0.18	98.86	-101.93
1	31	4.56	72.04	5.23e-04	0.0	0.0	-822.37	-19.89	-27.50	0.30	72.04	4.56
		-110.03	-86.45	0.01	0.0	576.0	-782.05	-19.89	-27.50	0.30	-86.45	-110.03
1	32	4.26	74.24	4.87e-04	0.0	0.0	-866.49	-18.56	-28.62	0.28	74.24	4.26
		-102.62	-90.75	0.01	0.0	576.0	-826.17	-18.56	-28.62	0.28	-90.75	-102.62
1	33	4.45	101.11	5.10e-04	0.0	0.0	-1077.20	-19.40	31.49	-0.13	-80.39	4.45
		-107.30	-80.39	-0.01	0.0	576.0	-1036.88	-19.40	31.49	-0.13	101.11	-107.30
1	34	4.14	96.81	4.74e-04	0.0	0.0	-1121.32	-18.06	30.36	-0.15	-78.19	4.14
		-99.90	-78.19	-0.01	0.0	576.0	-1081.00	-18.06	30.36	-0.15	96.81	-99.90
1	35	4.59	74.16	5.25e-04	0.0	0.0	-821.86	-20.00	-28.69	0.31	74.16	4.59
		-110.62	-91.34	0.01	0.0	576.0	-781.54	-20.00	-28.69	0.31	-91.34	-110.62
1	36	4.23	72.12	4.85e-04	0.0	0.0	-867.00	-18.45	-27.43	0.28	72.12	4.23
		-102.03	-85.86	0.01	0.0	576.0	-826.68	-18.45	-27.43	0.28	-85.86	-102.03
1	37	4.47	96.22	5.12e-04	0.0	0.0	-1076.69	-19.51	30.29	-0.12	-78.27	4.47
		-107.89	-78.27	-0.01	0.0	576.0	-1036.37	-19.51	30.29	-0.12	96.22	-107.89
1	38	4.12	101.70	4.72e-04	0.0	0.0	-1121.83	-17.96	31.56	-0.15	-80.30	4.12
		-99.31	-80.30	-0.01	0.0	576.0	-1081.51	-17.96	31.56	-0.15	101.70	-99.31
1	39	4.85	15.90	5.55e-04	0.0	0.0	-862.18	-21.14	-5.36	0.18	15.90	4.85
		-116.93	-14.93	2.59e-03	0.0	576.0	-821.86	-21.14	-5.36	0.18	-14.93	-116.93
1	40	3.83	23.23	4.38e-04	0.0	0.0	-1009.25	-16.68	-9.10	0.12	23.23	3.83
		-92.25	-29.28	3.50e-03	0.0	576.0	-968.93	-16.68	-9.10	0.12	-29.28	-92.25
1	41	4.88	39.64	5.59e-04	0.0	0.0	-934.44	-21.28	11.97	0.03	-29.38	4.88
		-117.68	-29.38	-4.31e-03	0.0	576.0	-894.12	-21.28	11.97	0.03	39.64	-117.68
1	42	3.86	25.29	4.42e-04	0.0	0.0	-1081.51	-16.82	8.22	-0.02	-22.05	3.86
		-93.00	-22.05	-3.40e-03	0.0	576.0	-1041.19	-16.82	8.22	-0.02	25.29	-93.00
1	43	4.88	16.12	5.59e-04	0.0	0.0	-860.09	-21.28	-5.54	0.17	16.12	4.88
		-117.71	-15.78	2.60e-03	0.0	576.0	-819.77	-21.28	-5.54	0.17	-15.78	-117.71
1	44	3.86	23.46	4.42e-04	0.0	0.0	-1007.15	-16.82	-9.29	0.11	23.46	3.86
		-93.03	-30.13	3.51e-03	0.0	576.0	-966.83	-16.82	-9.29	0.11	-30.13	-93.03
1	45	4.85	40.49	5.55e-04	0.0	0.0	-936.54	-21.14	12.15	0.04	-29.60	4.85
		-116.89	-29.60	-4.32e-03	0.0	576.0	-896.22	-21.14	12.15	0.04	40.49	-116.89
1	46	3.82	26.14	4.38e-04	0.0	0.0	-1083.60	-16.67	8.41	-0.02	-22.27	3.82
		-92.22	-22.27	-3.41e-03	0.0	576.0	-1043.28	-16.67	8.41	-0.02	26.14	-92.22
1	47	4.93	22.96	5.65e-04	0.0	0.0	-860.49	-21.50	-9.34	0.21	22.96	4.93
		-118.89	-31.23	3.45e-03	0.0	576.0	-820.17	-21.50	-9.34	0.21	-31.23	-118.89
1	48	3.74	16.18	4.29e-04	0.0	0.0	-1010.94	-16.33	-5.12	0.09	16.18	3.74
		-90.29	-12.98	2.64e-03	0.0	576.0	-970.62	-16.33	-5.12	0.09	-12.98	-90.29
1	49	4.96	23.34	5.68e-04	0.0	0.0	-932.75	-21.63	7.99	0.06	-22.32	4.96
		-119.64	-22.32	-3.45e-03	0.0	576.0	-892.43	-21.63	7.99	0.06	23.34	-119.64
1	50	3.78	41.59	4.32e-04	0.0	0.0	-1083.20	-16.46	12.20	-0.05	-29.11	3.78
		-91.04	-29.11	-4.26e-03	0.0	576.0	-1042.88	-16.46	12.20	-0.05	41.59	-91.04
1	51	4.96	23.18	5.68e-04	0.0	0.0	-858.39	-21.64	-9.52	0.20	23.18	4.96
		-119.67	-32.08	3.46e-03	0.0	576.0	-818.07	-21.64	-9.52	0.20	-32.08	-119.67
1	52	3.78	16.40	4.32e-04	0.0	0.0	-1008.85	-16.47	-5.31	0.08	16.40	3.78
		-91.07	-13.83	2.65e-03	0.0	576.0	-968.53	-16.47	-5.31	0.08	-13.83	-91.07
1	53	4.93	24.19	5.64e-04	0.0	0.0	-934.84	-21.49	8.17	0.07	-22.55	4.93
		-118.86	-22.55	-3.46e-03	0.0	576.0	-894.52	-21.49	8.17	0.07	24.19	-118.86
1	54	3.74	42.44	4.29e-04	0.0	0.0	-1085.30	-16.32	12.39	-0.04	-29.33	3.74
		-90.25	-29.33	-4.26e-03	0.0	576.0	-1044.98	-16.32	12.39	-0.04	42.44	-90.25
1	55	4.04	4.80	4.63e-04	0.0	0.0	-907.41	-17.63	1.32	0.07	-2.82	4.04
		-97.53	-2.82	-3.69e-04	0.0	576.0	-867.09	-17.63	1.32	0.07	4.80	-97.53
1	56	4.35	5.18	4.98e-04	0.0	0.0	-971.85	-18.98	1.43	0.08	-3.07	4.35
		-104.96	-3.07	-4.05e-04	0.0	576.0	-931.53	-18.98	1.43	0.08	5.18	-104.96
2	1	7.93	13.06	9.19e-04	0.0	0.0	-1560.62	-34.93	3.14	0.07	-5.01	7.93
		-193.26	-5.01	-5.17e-04	0.0	576.0	-1508.20	-34.93	3.14	0.07	13.06	-193.26
2	2	7.93	13.18	9.19e-04	0.0	0.0	-1577.46	-34.93	3.17	0.07	-5.05	7.93
		-193.29	-5.05	-5.21e-04	0.0	576.0	-1525.04	-34.93	3.17	0.07	13.18	-193.29
2	3	10.68	17.51	1.24e-03	0.0	0.0	-2041.49	-47.04	4.21	0.09	-6.75	10.68
		-260.29	-6.75	-6.98e-04	0.0	576.0	-1989.08	-47.04	4.21	0.09	17.51	-260.29
2	4	10.68	17.64	1.24e-03	0.0	0.0	-2058.33	-47.05	4.24	0.09	-6.79	10.68
		-260.32	-6.79	-7.02e-04	0.0	576.0	-2005.92	-47.05	4.24	0.09	17.64	-260.32
2	5	4.49	8.08	5.20e-04	0.0	0.0	-971.08	-19.76	1.94	0.04	-3.08	4.49
		-109.34	-3.08	-3.17e-04	0.0	576.0	-930.76	-19.76	1.94	0.04	8.08	-109.34
2	6	4.49	8.20	5.20e-04	0.0	0.0	-987.92	-19.77	1.97	0.04	-3.12	4.49
		-109.37	-3.12	-3.21e-04	0.0	576.0	-947.60	-19.77	1.97	0.04	8.20	-109.37
2	7	7.23	12.53	8.39e-04	0.0	0.0	-1451.95	-31.88	3.01	0.07	-4.82	7.23
		-176.37	-4.82	-4.98e-04	0.0	576.0	-1411.63	-31.88	3.01	0.07	12.53	-176.37
2	8	7.24	12.66	8.39e-04	0.0	0.0	-1468.79	-31.88	3.04	0.07	-4.86	7.24
		-176.40	-4.86	-5.02e-04	0.0	576.0	-1428.47	-31.88	3.04	0.07	12.66	-176.40
2	9	7.93	13.31	9.19e-04	0.0	0.0	-1594.30	-34.94	3.20	0.07	-5.09	7.93
		-193.32	-5.09	-5.25e-04	0.0	576.0	-1541.88	-34.94	3.20	0.07	13.31	-193.32
2	10	9.85	16.17	1.14e-03	0.0	0.0	-1897.23	-43.41	3.89	0.08	-6.22	9.85
		-240.18	-6.22	-6.44e-04	0.0	576.0	-1844.81	-43.41	3.89	0.08	16.17	-240.18
2	11	9.85	16.43	1.14e-03	0.0	0.0	-1930.91	-43.42	3.95	0.09	-6.31	9.85
		-240.24	-6.31	-6.52e-04	0.0	576.0	-1878.49	-43.42	3.95	0.09	16.43	-240.24
2	12	4.49	8.33	5.20e-04	0.0	0.0	-1004.76	-19.77	2.00	0.04	-3.16	4.49
		-109.41	-3.16	-3.25e-04	0.0	576.0	-964.44	-19.77	2.00	0.04	8.33	-109.41
2	13	6.41	11.19	7.43e-04	0.0	0.0	-1307.69	-28.24	2.69	0.06	-4.30	6.41
		-156.26	-4.30	-4.44e-04	0.0	576.0	-1267.37	-28.24	2.69	0.06	11.19	-156.26
2	14	6.41	11.45	7.43e-04	0.0	0.0	-1341.37	-28.25	2.75	0.06	-4.38	6.41
		-156.32	-4.38	-4.52e-04	0.0	576.0	-1301.05	-28.25	2.75	0.06	11.45	-156.32
2	15	8.14	13.19	9.44e-04	0.0	0.0	-1535.21	-35.86	3.16	0.07	-5.03	8.14
		-198.43	-5.03	-5.18e-04	0.0	576.0	-1482.79	-35.86	3.16	0.07	13.19	-198.43
2	16	8.14	13.31	9.44e-04	0.0	0.0	-1552.05	-35.87	3.19	0.07	-5.08	8.14

		-198.46	-5.08	-5.22e-04	0.0	576.0	-1499.63	-35.87	3.19	0.07	13.31	-198.46
2	17	10.06	16.31	1.17e-03	0.0	0.0	-1871.82	-44.34	3.92	0.09	-6.25	10.06
		-245.35	-6.25	-6.45e-04	0.0	576.0	-1819.41	-44.34	3.92	0.09	16.31	-245.35
2	18	10.07	16.43	1.17e-03	0.0	0.0	-1888.66	-44.35	3.95	0.09	-6.29	10.07
		-245.38	-6.29	-6.49e-04	0.0	576.0	-1836.25	-44.35	3.95	0.09	16.43	-245.38
2	19	4.70	8.21	5.45e-04	0.0	0.0	-945.67	-20.70	1.96	0.05	-3.11	4.70
		-114.51	-3.11	-3.18e-04	0.0	576.0	-905.35	-20.70	1.96	0.05	8.21	-114.51
2	20	4.70	8.33	5.45e-04	0.0	0.0	-962.51	-20.70	1.99	0.05	-3.15	4.70
		-114.54	-3.15	-3.22e-04	0.0	576.0	-922.19	-20.70	1.99	0.05	8.33	-114.54
2	21	6.62	11.33	7.68e-04	0.0	0.0	-1282.28	-29.18	2.72	0.07	-4.32	6.62
		-161.43	-4.32	-4.45e-04	0.0	576.0	-1241.96	-29.18	2.72	0.07	11.33	-161.43
2	22	6.62	11.45	7.68e-04	0.0	0.0	-1299.12	-29.18	2.75	0.07	-4.37	6.62
		-161.46	-4.37	-4.49e-04	0.0	576.0	-1258.80	-29.18	2.75	0.07	11.45	-161.46
2	23	6.51	88.43	7.54e-04	0.0	0.0	-1175.69	-28.67	-45.88	0.13	88.43	6.51
		-158.66	-175.81	0.01	0.0	576.0	-1135.37	-28.67	-45.88	0.13	-175.81	-158.66
2	24	6.11	90.80	7.08e-04	0.0	0.0	-1225.35	-26.91	-47.17	0.12	90.80	6.11
		-148.88	-180.91	0.01	0.0	576.0	-1185.03	-26.91	-47.17	0.12	-180.91	-148.88
2	25	6.25	201.94	7.25e-04	0.0	0.0	-1367.75	-27.54	52.23	-0.02	-98.94	6.25
		-152.36	-98.94	-0.01	0.0	576.0	-1327.43	-27.54	52.23	-0.02	201.94	-152.36
2	26	5.85	196.84	6.78e-04	0.0	0.0	-1417.41	-25.77	50.94	-0.03	-96.56	5.85
		-142.59	-96.56	-0.01	0.0	576.0	-1377.09	-25.77	50.94	-0.03	196.84	-142.59
2	27	6.52	90.67	7.56e-04	0.0	0.0	-1176.14	-28.73	-47.09	0.11	90.67	6.52
		-158.96	-180.59	0.01	0.0	576.0	-1135.82	-28.73	-47.09	0.11	-180.59	-158.96
2	28	6.09	88.57	7.06e-04	0.0	0.0	-1224.90	-26.85	-45.96	0.14	88.57	6.09
		-148.57	-176.13	0.01	0.0	576.0	-1184.58	-26.85	-45.96	0.14	-176.13	-148.57
2	29	6.26	197.16	7.26e-04	0.0	0.0	-1368.20	-27.59	51.02	-0.04	-96.70	6.26
		-152.67	-96.70	-0.01	0.0	576.0	-1327.88	-27.59	51.02	-0.04	197.16	-152.67
2	30	5.84	201.62	6.77e-04	0.0	0.0	-1416.96	-25.72	52.15	-0.01	-98.80	5.84
		-142.28	-98.80	-0.01	0.0	576.0	-1376.64	-25.72	52.15	-0.01	201.62	-142.28
2	31	6.59	88.85	7.64e-04	0.0	0.0	-1168.54	-29.03	-46.14	0.12	88.85	6.59
		-160.60	-176.93	0.01	0.0	576.0	-1128.22	-29.03	-46.14	0.12	-176.93	-160.60
2	32	6.19	91.22	7.17e-04	0.0	0.0	-1218.21	-27.26	-47.44	0.11	91.22	6.19
		-150.83	-182.02	0.01	0.0	576.0	-1177.89	-27.26	-47.44	0.11	-182.02	-150.83
2	33	6.17	203.05	7.15e-04	0.0	0.0	-1374.89	-27.19	52.50	-8.47e-03	-99.35	6.17
		-150.42	-99.35	-0.01	0.0	576.0	-1334.57	-27.19	52.50	-8.47e-03	203.05	-150.42
2	34	5.77	197.96	6.69e-04	0.0	0.0	-1424.56	-25.42	51.20	-0.02	-96.98	5.77
		-140.64	-96.98	-0.01	0.0	576.0	-1384.24	-25.42	51.20	-0.02	197.96	-140.64
2	35	6.60	91.08	7.65e-04	0.0	0.0	-1169.00	-29.08	-47.36	0.10	91.08	6.60
		-160.91	-181.70	0.01	0.0	576.0	-1128.68	-29.08	-47.36	0.10	-181.70	-160.91
2	36	6.17	88.99	7.16e-04	0.0	0.0	-1217.76	-27.20	-46.22	0.13	88.99	6.17
		-150.52	-177.25	0.01	0.0	576.0	-1177.44	-27.20	-46.22	0.13	-177.25	-150.52
2	37	6.18	198.28	7.17e-04	0.0	0.0	-1375.35	-27.24	51.28	-0.03	-97.12	6.18
		-150.73	-97.12	-0.01	0.0	576.0	-1335.03	-27.24	51.28	-0.03	198.28	-150.73
2	38	5.76	202.73	6.67e-04	0.0	0.0	-1424.10	-25.36	52.42	-1.43e-03	-99.21	5.76
		-140.34	-99.21	-0.01	0.0	576.0	-1383.78	-25.36	52.42	-1.43e-03	202.73	-140.34
2	39	6.89	20.08	7.98e-04	0.0	0.0	-1184.97	-30.34	-10.02	0.10	20.08	6.89
		-167.86	-37.65	2.50e-03	0.0	576.0	-1144.65	-30.34	-10.02	0.10	-37.65	-167.86
2	40	5.55	28.00	6.43e-04	0.0	0.0	-1350.52	-24.45	-14.35	0.05	28.00	5.55
		-135.28	-54.64	3.40e-03	0.0	576.0	-1310.20	-24.45	-14.35	0.05	-54.64	-135.28
2	41	6.81	75.67	7.89e-04	0.0	0.0	-1242.59	-30.00	19.41	0.05	-36.13	6.81
		-165.97	-36.13	-4.22e-03	0.0	576.0	-1202.27	-30.00	19.41	0.05	75.67	-165.97
2	42	5.47	58.68	6.34e-04	0.0	0.0	-1408.13	-24.11	15.09	5.37e-03	-28.21	5.47
		-133.39	-28.21	-3.31e-03	0.0	576.0	-1367.81	-24.11	15.09	5.37e-03	58.68	-133.39
2	43	6.91	20.21	8.01e-04	0.0	0.0	-1182.83	-30.44	-10.10	0.09	20.21	6.91
		-168.44	-37.99	2.51e-03	0.0	576.0	-1142.51	-30.44	-10.10	0.09	-37.99	-168.44
2	44	5.57	28.12	6.46e-04	0.0	0.0	-1348.37	-24.55	-14.43	0.05	28.12	5.57
		-135.86	-54.98	3.41e-03	0.0	576.0	-1308.05	-24.55	-14.43	0.05	-54.98	-135.86
2	45	6.78	76.01	7.86e-04	0.0	0.0	-1244.73	-29.89	19.49	0.05	-36.25	6.78
		-165.39	-36.25	-4.24e-03	0.0	576.0	-1204.41	-29.89	19.49	0.05	76.01	-165.39
2	46	5.45	59.02	6.32e-04	0.0	0.0	-1410.28	-24.00	15.17	8.88e-03	-28.34	5.45
		-132.81	-28.34	-3.32e-03	0.0	576.0	-1369.96	-24.00	15.17	8.88e-03	59.02	-132.81
2	47	6.93	27.54	8.03e-04	0.0	0.0	-1186.48	-30.52	-14.08	0.03	27.54	6.93
		-168.88	-53.57	3.35e-03	0.0	576.0	-1146.16	-30.52	-14.08	0.03	-53.57	-168.88
2	48	5.51	20.54	6.38e-04	0.0	0.0	-1349.01	-24.26	-10.29	0.12	20.54	5.51
		-134.25	-38.72	2.55e-03	0.0	576.0	-1308.69	-24.26	-10.29	0.12	-38.72	-134.25
2	49	6.85	59.75	7.94e-04	0.0	0.0	-1244.10	-30.18	15.35	-0.02	-28.67	6.85
		-166.99	-28.67	-3.36e-03	0.0	576.0	-1203.78	-30.18	15.35	-0.02	59.75	-166.99
2	50	5.43	74.60	6.29e-04	0.0	0.0	-1406.62	-23.92	19.14	0.07	-35.67	5.43
		-132.37	-35.67	-4.18e-03	0.0	576.0	-1366.30	-23.92	19.14	0.07	74.60	-132.37
2	51	6.95	27.66	8.06e-04	0.0	0.0	-1184.34	-30.63	-14.16	0.02	27.66	6.95
		-169.46	-53.91	3.36e-03	0.0	576.0	-1144.02	-30.63	-14.16	0.02	-53.91	-169.46
2	52	5.53	20.67	6.41e-04	0.0	0.0	-1346.86	-24.37	-10.37	0.12	20.67	5.53
		-134.84	-39.06	2.56e-03	0.0	576.0	-1306.54	-24.37	-10.37	0.12	-39.06	-134.84
2	53	6.83	60.09	7.91e-04	0.0	0.0	-1246.24	-30.08	15.43	-0.01	-28.80	6.83
		-166.41	-28.80	-3.37e-03	0.0	576.0	-1205.92	-30.08	15.43	-0.01	60.09	-166.41
2	54	5.41	74.94	6.27e-04	0.0	0.0	-1408.77	-23.82	19.22	0.08	-35.79	5.41
		-131.78	-35.79	-4.19e-03	0.0	576.0	-1368.45	-23.82	19.22	0.08	74.94	-131.78
2	55	5.63	9.62	6.52e-04	0.0	0.0	-1200.38	-24.80	2.32	0.05	-3.72	5.63
		-137.22	-3.72	-3.85e-04	0.0	576.0	-1160.06	-24.80	2.32	0.05	9.62	-137.22
2	56	6.18	10.52	7.16e-04	0.0	0.0	-1296.55	-27.22	2.53	0.05	-4.07	6.18
		-150.62	-4.07	-4.22e-04	0.0	576.0	-1256.23	-27.22	2.53	0.05	10.52	-150.62
3	1	7.94	10.66	9.20e-04	0.0	0.0	-1612.53	-34.98	2.64	0.03	-4.56	7.94
		-193.56	-4.56	-5.04e-04	0.0	576.0	-1560.12	-34.98	2.64	0.03	10.66	-193.56
3	2	7.94	10.74	9.21e-04	0.0	0.0	-1630.14	-34.99	2.66	0.03	-4.60	7.94
		-193.59	-4.60	-5.07e-04	0.0	576.0	-1577.73	-34.99	2.66	0.03	10.74	-193.59
3	3	10.71	14.49	1.24e-03	0.0	0.0	-2112.10	-47.18	3.59	0.04	-6.19	10.71
		-261.06	-6.19	-6.82e-04	0.0	576.0	-2059.68	-47.18	3.59	0.04	14.49	-261.06
3	4	10.71	14.57	1.24e-03	0.0	0.0	-2129.71	-47.19	3.61	0.04	-6.22	10.71
		-261.09	-6.22	-6.86e-04	0.0	576.0	-2077.30	-47.19	3.61	0.04	14.57	-261.09
3	5	4.48	6.50	5.20e-04	0.0	0.0	-1002.32	-19.76	1.61	0.02	-2.79	4.48
		-109.34	-2.79	-3.08e-04	0.0	576.0	-962.00	-19.76	1.61	0.02	6.50	-109.34
3	6	4.49	6.58	5.20e-04	0.0	0.0	-1019.94	-19.77	1.63	0.02	-2.82	4.49
		-109.37	-2.82	-3.12e-04	0.0	576.0	-979.62	-19.77	1.63	0.02	6.58	-109.37
3	7	7.25	10.32	8.41e-04	0.0	0.0	-1501.89	-31.96	2.56	0.03	-4.41	7.25
		-176.84	-4.41	-4.87e-04	0.0	576.0	-1461.57	-31.96	2.56	0.03	10.32	-176.84
3	8	7.26	10.40	8.41e-04	0.0	0.0	-1519.50	-31.97	2.58	0.03	-4.45	7.26

		-176.87	-4.45	-4.90e-04	0.0	576.0	-1479.18	-31.97	2.58	0.03	10.40	-176.87
3	9	7.94	10.82	9.21e-04	0.0	0.0	-1647.76	-34.99	2.68	0.03	-4.63	7.94
		-193.62	-4.63	-5.11e-04	0.0	576.0	-1595.34	-34.99	2.68	0.03	10.82	-193.62
3	10	9.88	13.34	1.15e-03	0.0	0.0	-1962.23	-43.52	3.31	0.04	-5.70	9.88
		-240.81	-5.70	-6.28e-04	0.0	576.0	-1909.81	-43.52	3.31	0.04	13.34	-240.81
3	11	9.88	13.50	1.15e-03	0.0	0.0	-1997.45	-43.53	3.35	0.04	-5.77	9.88
		-240.87	-5.77	-6.36e-04	0.0	576.0	-1945.04	-43.53	3.35	0.04	13.50	-240.87
3	12	4.49	6.66	5.20e-04	0.0	0.0	-1037.55	-19.77	1.65	0.02	-2.86	4.49
		-109.40	-2.86	-3.15e-04	0.0	576.0	-997.23	-19.77	1.65	0.02	6.66	-109.40
3	13	6.42	9.18	7.45e-04	0.0	0.0	-1352.02	-28.30	2.27	0.03	-3.93	6.42
		-156.59	-3.93	-4.33e-04	0.0	576.0	-1311.70	-28.30	2.27	0.03	9.18	-156.59
3	14	6.43	9.34	7.45e-04	0.0	0.0	-1387.25	-28.31	2.31	0.03	-3.99	6.43
		-156.65	-3.99	-4.40e-04	0.0	576.0	-1346.93	-28.31	2.31	0.03	9.34	-156.65
3	15	8.16	10.66	9.46e-04	0.0	0.0	-1586.84	-35.94	2.64	0.03	-4.57	8.16
		-198.86	-4.57	-5.04e-04	0.0	576.0	-1534.43	-35.94	2.64	0.03	10.66	-198.86
3	16	8.16	10.74	9.46e-04	0.0	0.0	-1604.46	-35.95	2.66	0.03	-4.60	8.16
		-198.89	-4.60	-5.08e-04	0.0	576.0	-1552.04	-35.95	2.66	0.03	10.74	-198.89
3	17	10.10	13.34	1.17e-03	0.0	0.0	-1936.54	-44.48	3.31	0.04	-5.70	10.10
		-246.11	-5.70	-6.29e-04	0.0	576.0	-1884.13	-44.48	3.31	0.04	13.34	-246.11
3	18	10.10	13.42	1.17e-03	0.0	0.0	-1954.15	-44.49	3.33	0.04	-5.74	10.10
		-246.14	-5.74	-6.33e-04	0.0	576.0	-1901.74	-44.49	3.33	0.04	13.42	-246.14
3	19	4.70	6.50	5.45e-04	0.0	0.0	-976.64	-20.72	1.61	0.02	-2.79	4.70
		-114.64	-2.79	-3.09e-04	0.0	576.0	-936.32	-20.72	1.61	0.02	6.50	-114.64
3	20	4.70	6.58	5.45e-04	0.0	0.0	-994.25	-20.72	1.63	0.02	-2.83	4.70
		-114.67	-2.83	-3.12e-04	0.0	576.0	-953.93	-20.72	1.63	0.02	6.58	-114.67
3	21	6.64	9.17	7.70e-04	0.0	0.0	-1326.33	-29.26	2.27	0.03	-3.93	6.64
		-161.89	-3.93	-4.34e-04	0.0	576.0	-1286.01	-29.26	2.27	0.03	9.17	-161.89
3	22	6.64	9.25	7.70e-04	0.0	0.0	-1343.95	-29.26	2.29	0.03	-3.96	6.64
		-161.92	-3.96	-4.37e-04	0.0	576.0	-1303.63	-29.26	2.29	0.03	9.25	-161.92
3	23	6.43	92.39	7.45e-04	0.0	0.0	-1306.25	-28.31	-50.24	0.10	92.39	6.43
		-156.64	-197.00	0.01	0.0	576.0	-1265.93	-28.31	-50.24	0.10	-197.00	-156.64
3	24	6.00	94.78	6.96e-04	0.0	0.0	-1358.29	-26.46	-51.55	0.09	94.78	6.00
		-146.39	-202.14	0.01	0.0	576.0	-1317.97	-26.46	-51.55	0.09	-202.14	-146.39
3	25	6.36	219.63	7.38e-04	0.0	0.0	-1320.52	-28.04	55.88	-0.05	-102.25	6.36
		-155.13	-102.25	-0.01	0.0	576.0	-1280.20	-28.04	55.88	-0.05	219.63	-155.13
3	26	5.94	214.49	6.89e-04	0.0	0.0	-1372.55	-26.18	54.58	-0.06	-99.86	5.94
		-144.88	-99.86	-0.01	0.0	576.0	-1332.23	-26.18	54.58	-0.06	214.49	-144.88
3	27	6.40	94.64	7.42e-04	0.0	0.0	-1309.16	-28.21	-51.47	0.08	94.64	6.40
		-156.08	-201.84	0.01	0.0	576.0	-1268.84	-28.21	-51.47	0.08	-201.84	-156.08
3	28	6.03	92.52	6.99e-04	0.0	0.0	-1355.37	-26.56	-50.32	0.11	92.52	6.03
		-146.95	-197.30	0.01	0.0	576.0	-1315.05	-26.56	-50.32	0.11	-197.30	-146.95
3	29	6.34	214.79	7.35e-04	0.0	0.0	-1323.43	-27.94	54.65	-0.07	-100.00	6.34
		-154.57	-100.00	-0.01	0.0	576.0	-1283.11	-27.94	54.65	-0.07	214.79	-154.57
3	30	5.97	219.33	6.92e-04	0.0	0.0	-1369.64	-26.29	55.81	-0.04	-102.12	5.97
		-145.44	-102.12	-0.01	0.0	576.0	-1329.32	-26.29	55.81	-0.04	219.33	-145.44
3	31	6.46	92.71	7.49e-04	0.0	0.0	-1302.24	-28.47	-50.40	0.10	92.71	6.46
		-157.53	-197.57	0.01	0.0	576.0	-1261.92	-28.47	-50.40	0.10	-197.57	-157.53
3	32	6.04	95.09	7.00e-04	0.0	0.0	-1354.28	-26.62	-51.70	0.09	95.09	6.04
		-147.27	-202.71	0.01	0.0	576.0	-1313.96	-26.62	-51.70	0.09	-202.71	-147.27
3	33	6.33	220.20	7.33e-04	0.0	0.0	-1324.53	-27.88	56.04	-0.04	-102.56	6.33
		-154.25	-102.56	-0.01	0.0	576.0	-1284.21	-27.88	56.04	-0.04	220.20	-154.25
3	34	5.91	215.06	6.85e-04	0.0	0.0	-1376.56	-26.02	54.73	-0.06	-100.18	5.91
		-143.99	-100.18	-0.01	0.0	576.0	-1336.24	-26.02	54.73	-0.06	215.06	-143.99
3	35	6.44	94.96	7.46e-04	0.0	0.0	-1305.15	-28.37	-51.63	0.08	94.96	6.44
		-156.97	-202.41	0.01	0.0	576.0	-1264.83	-28.37	-51.63	0.08	-202.41	-156.97
3	36	6.06	92.84	7.03e-04	0.0	0.0	-1351.36	-26.72	-50.47	0.11	92.84	6.06
		-147.83	-197.87	0.01	0.0	576.0	-1311.04	-26.72	-50.47	0.11	-197.87	-147.83
3	37	6.30	215.36	7.31e-04	0.0	0.0	-1327.44	-27.78	54.80	-0.06	-100.31	6.30
		-153.68	-100.31	-0.01	0.0	576.0	-1287.12	-27.78	54.80	-0.06	215.36	-153.68
3	38	5.93	219.90	6.87e-04	0.0	0.0	-1373.65	-26.13	55.96	-0.04	-102.43	5.93
		-144.55	-102.43	-0.01	0.0	576.0	-1333.33	-26.13	55.96	-0.04	219.90	-144.55
3	39	6.89	21.48	7.99e-04	0.0	0.0	-1250.54	-30.38	-11.57	0.07	21.48	6.89
		-168.08	-45.18	2.51e-03	0.0	576.0	-1210.22	-30.38	-11.57	0.07	-45.18	-168.08
3	40	5.49	29.43	6.37e-04	0.0	0.0	-1423.99	-24.20	-15.93	0.02	29.43	5.49
		-133.90	-62.32	3.42e-03	0.0	576.0	-1383.67	-24.20	-15.93	0.02	-62.32	-133.90
3	41	6.88	79.81	7.97e-04	0.0	0.0	-1254.82	-30.30	20.26	0.02	-36.91	6.88
		-167.62	-36.91	-4.25e-03	0.0	576.0	-1214.50	-30.30	20.26	0.02	79.81	-167.62
3	42	5.47	62.67	6.35e-04	0.0	0.0	-1428.26	-24.12	15.91	-0.02	-28.96	5.47
		-133.44	-28.96	-3.33e-03	0.0	576.0	-1387.94	-24.12	15.91	-0.02	62.67	-133.44
3	43	6.91	21.58	8.00e-04	0.0	0.0	-1249.34	-30.43	-11.62	0.06	21.58	6.91
		-168.34	-45.35	2.52e-03	0.0	576.0	-1209.02	-30.43	-11.62	0.06	-45.35	-168.34
3	44	5.50	29.53	6.38e-04	0.0	0.0	-1422.78	-24.25	-15.97	0.02	29.53	5.50
		-134.16	-62.49	3.44e-03	0.0	576.0	-1382.46	-24.25	-15.97	0.02	-62.49	-134.16
3	45	6.86	79.98	7.96e-04	0.0	0.0	-1256.02	-30.25	20.31	0.02	-37.00	6.86
		-167.36	-37.00	-4.26e-03	0.0	576.0	-1215.70	-30.25	20.31	0.02	79.98	-167.36
3	46	5.46	62.84	6.33e-04	0.0	0.0	-1429.47	-24.07	15.95	-0.02	-29.05	5.46
		-133.18	-29.05	-3.34e-03	0.0	576.0	-1389.15	-24.07	15.95	-0.02	62.84	-133.18
3	47	6.82	28.99	7.90e-04	0.0	0.0	-1260.25	-30.04	-15.68	1.17e-03	28.99	6.82
		-166.20	-61.31	3.38e-03	0.0	576.0	-1219.93	-30.04	-15.68	1.17e-03	-61.31	-166.20
3	48	5.57	21.92	6.46e-04	0.0	0.0	-1414.28	-24.54	-11.83	0.09	21.92	5.57
		-135.77	-46.19	2.56e-03	0.0	576.0	-1373.96	-24.54	-11.83	0.09	-46.19	-135.77
3	49	6.80	63.68	7.88e-04	0.0	0.0	-1264.53	-29.96	16.16	-0.04	-29.40	6.80
		-165.75	-29.40	-3.38e-03	0.0	576.0	-1224.21	-29.96	16.16	-0.04	63.68	-165.75
3	50	5.55	78.80	6.43e-04	0.0	0.0	-1418.56	-24.46	20.01	0.04	-36.47	5.55
		-135.31	-36.47	-4.20e-03	0.0	576.0	-1378.24	-24.46	20.01	0.04	78.80	-135.31
3	51	6.83	29.09	7.92e-04	0.0	0.0	-1259.04	-30.09	-15.72	-1.52e-04	29.09	6.83
		-166.47	-61.48	3.39e-03	0.0	576.0	-1218.72	-30.09	-15.72	-1.52e-04	-61.48	-166.47
3	52	5.58	22.02	6.47e-04	0.0	0.0	-1413.07	-24.59	-11.87	0.09	22.02	5.58
		-136.03	-46.36	2.57e-03	0.0	576.0	-1372.75	-24.59	-11.87	0.09	-46.36	-136.03
3	53	6.79	63.85	7.87e-04	0.0	0.0	-1265.73	-29.91	16.21	-0.04	-29.49	6.79
		-165.49	-29.49	-3.39e-03	0.0	576.0	-1225.41	-29.91	16.21	-0.04	63.85	-165.49
3	54	5.54	78.97	6.42e-04	0.0	0.0	-1419.76	-24.41	20.06	0.04	-36.56	5.54
		-135.05	-36.56	-4.21e-03	0.0	576.0	-1379.44	-24.41	20.06	0.04	78.97	-135.05
3	55	5.63	7.98	6.53e-04	0.0	0.0	-1239.49	-24.81	1.98	0.02	-3.41	5.63
		-137.26	-3.41	-3.76e-04	0.0	576.0	-1199.17	-24.81	1.98	0.02	7.98	-137.26
3	56	6.18	8.74	7.17e-04	0.0	0.0	-1339.40	-27.25	2.17	0.02	-3.74	6.18

		-150.76	-3.74	-4.12e-04	0.0	576.0	-1299.08	-27.25	2.17	0.02	8.74	-150.76
4	1	7.82	2.22	9.07e-04	0.0	0.0	-1587.06	-34.47	0.91	-0.02	-3.00	7.82
		-190.73	-3.00	-5.14e-04	0.0	576.0	-1534.65	-34.47	0.91	-0.02	2.22	-190.73
4	2	7.82	2.17	9.07e-04	0.0	0.0	-1604.07	-34.47	0.90	-0.02	-3.00	7.82
		-190.73	-3.00	-5.18e-04	0.0	576.0	-1551.66	-34.47	0.90	-0.02	2.17	-190.73
4	3	10.55	2.57	1.22e-03	0.0	0.0	-2076.24	-46.50	1.14	-0.03	-3.97	10.55
		-257.30	-3.97	-6.99e-04	0.0	576.0	-2023.82	-46.50	1.14	-0.03	2.57	-257.30
4	4	10.55	2.52	1.22e-03	0.0	0.0	-2093.24	-46.50	1.13	-0.03	-3.98	10.55
		-257.29	-3.98	-7.02e-04	0.0	576.0	-2040.83	-46.50	1.13	-0.03	2.52	-257.29
4	5	4.42	1.57	5.12e-04	0.0	0.0	-987.06	-19.47	0.60	-8.73e-03	-1.87	4.42
		-107.72	-1.87	-3.14e-04	0.0	576.0	-946.74	-19.47	0.60	-8.73e-03	1.57	-107.72
4	6	4.42	1.52	5.12e-04	0.0	0.0	-1004.07	-19.47	0.59	-8.95e-03	-1.88	4.42
		-107.72	-1.88	-3.18e-04	0.0	576.0	-963.75	-19.47	0.59	-8.95e-03	1.52	-107.72
4	7	7.15	1.91	8.29e-04	0.0	0.0	-1476.23	-31.50	0.83	-0.02	-2.85	7.15
		-174.29	-2.85	-4.98e-04	0.0	576.0	-1435.91	-31.50	0.83	-0.02	1.91	-174.29
4	8	7.15	1.86	8.29e-04	0.0	0.0	-1493.24	-31.50	0.82	-0.02	-2.86	7.15
		-174.28	-2.86	-5.02e-04	0.0	576.0	-1452.92	-31.50	0.82	-0.02	1.86	-174.28
4	9	7.82	2.13	9.07e-04	0.0	0.0	-1621.08	-34.47	0.89	-0.02	-3.01	7.82
		-190.72	-3.01	-5.22e-04	0.0	576.0	-1568.67	-34.47	0.89	-0.02	2.13	-190.72
4	10	9.74	2.46	1.13e-03	0.0	0.0	-1929.48	-42.89	1.07	-0.02	-3.68	9.74
		-237.33	-3.68	-6.43e-04	0.0	576.0	-1877.07	-42.89	1.07	-0.02	2.46	-237.33
4	11	9.73	2.37	1.13e-03	0.0	0.0	-1963.50	-42.89	1.05	-0.02	-3.70	9.73
		-237.32	-3.70	-6.51e-04	0.0	576.0	-1911.09	-42.89	1.05	-0.02	2.37	-237.32
4	12	4.42	1.47	5.12e-04	0.0	0.0	-1021.07	-19.47	0.58	-9.17e-03	-1.89	4.42
		-107.71	-1.89	-3.22e-04	0.0	576.0	-980.75	-19.47	0.58	-9.17e-03	1.47	-107.71
4	13	6.33	1.81	7.34e-04	0.0	0.0	-1329.48	-27.89	0.76	-0.02	-2.56	6.33
		-154.32	-2.56	-4.43e-04	0.0	576.0	-1289.16	-27.89	0.76	-0.02	1.81	-154.32
4	14	6.33	1.71	7.34e-04	0.0	0.0	-1363.49	-27.89	0.74	-0.02	-2.58	6.33
		-154.31	-2.58	-4.51e-04	0.0	576.0	-1323.17	-27.89	0.74	-0.02	1.71	-154.31
4	15	8.05	2.12	9.33e-04	0.0	0.0	-1559.78	-35.45	0.89	-0.01	-2.98	8.05
		-196.16	-2.98	-5.16e-04	0.0	576.0	-1507.37	-35.45	0.89	-0.01	2.12	-196.16
4	16	8.05	2.07	9.33e-04	0.0	0.0	-1576.79	-35.45	0.88	-0.02	-2.99	8.05
		-196.15	-2.99	-5.20e-04	0.0	576.0	-1524.38	-35.45	0.88	-0.02	2.07	-196.15
4	17	9.96	2.36	1.15e-03	0.0	0.0	-1902.20	-43.87	1.05	-0.02	-3.67	9.96
		-242.75	-3.67	-6.45e-04	0.0	576.0	-1849.79	-43.87	1.05	-0.02	2.36	-242.75
4	18	9.96	2.31	1.15e-03	0.0	0.0	-1919.21	-43.87	1.04	-0.02	-3.68	9.96
		-242.75	-3.68	-6.49e-04	0.0	576.0	-1866.80	-43.87	1.04	-0.02	2.31	-242.75
4	19	4.64	1.46	5.38e-04	0.0	0.0	-959.78	-20.45	0.58	-6.74e-03	-1.86	4.64
		-113.14	-1.86	-3.16e-04	0.0	576.0	-919.46	-20.45	0.58	-6.74e-03	1.46	-113.14
4	20	4.64	1.41	5.38e-04	0.0	0.0	-976.79	-20.45	0.57	-6.95e-03	-1.87	4.64
		-113.14	-1.87	-3.20e-04	0.0	576.0	-936.47	-20.45	0.57	-6.95e-03	1.41	-113.14
4	21	6.55	1.70	7.60e-04	0.0	0.0	-1302.20	-28.87	0.74	-0.01	-2.54	6.55
		-159.74	-2.54	-4.44e-04	0.0	576.0	-1261.88	-28.87	0.74	-0.01	1.70	-159.74
4	22	6.55	1.65	7.60e-04	0.0	0.0	-1319.21	-28.87	0.73	-0.01	-2.55	6.55
		-159.74	-2.55	-4.48e-04	0.0	576.0	-1278.89	-28.87	0.73	-0.01	1.65	-159.74
4	23	6.25	93.88	7.24e-04	0.0	0.0	-1281.33	-27.54	-53.16	0.07	93.88	6.25
		-152.36	-209.96	0.01	0.0	576.0	-1241.01	-27.54	-53.16	0.07	-209.96	-152.36
4	24	5.81	96.24	6.73e-04	0.0	0.0	-1337.75	-25.60	-51.88	0.05	96.24	5.81
		-141.63	-204.95	0.01	0.0	576.0	-1297.43	-25.60	-51.88	0.05	-204.95	-141.63
4	25	6.36	208.72	7.37e-04	0.0	0.0	-1302.69	-28.02	53.39	-0.09	-101.16	6.36
		-155.01	-101.16	-0.01	0.0	576.0	-1262.37	-28.02	53.39	-0.09	208.72	-155.01
4	26	5.92	213.73	6.86e-04	0.0	0.0	-1359.11	-26.08	54.67	-0.10	-98.80	5.92
		-144.28	-98.80	-0.01	0.0	576.0	-1318.79	-26.08	54.67	-0.10	213.73	-144.28
4	27	6.20	96.11	7.18e-04	0.0	0.0	-1288.06	-27.30	-53.08	0.05	96.11	6.20
		-151.04	-209.66	0.01	0.0	576.0	-1247.74	-27.30	-53.08	0.05	-209.66	-151.04
4	28	5.86	94.01	6.80e-04	0.0	0.0	-1331.03	-25.83	-51.96	0.07	94.01	5.86
		-142.94	-205.25	0.01	0.0	576.0	-1290.71	-25.83	-51.96	0.07	-205.25	-142.94
4	29	6.30	209.02	7.31e-04	0.0	0.0	-1309.41	-27.78	53.46	-0.11	-98.93	6.30
		-153.70	-98.93	-0.01	0.0	576.0	-1269.09	-27.78	53.46	-0.11	209.02	-153.70
4	30	5.97	213.43	6.92e-04	0.0	0.0	-1352.38	-26.31	54.59	-0.08	-101.03	5.97
		-145.60	-101.03	-0.01	0.0	576.0	-1312.06	-26.31	54.59	-0.08	213.43	-145.60
4	31	6.26	94.17	7.26e-04	0.0	0.0	-1284.79	-27.59	-53.29	0.06	94.17	6.26
		-152.65	-210.40	0.01	0.0	576.0	-1244.47	-27.59	-53.29	0.06	-210.40	-152.65
4	32	5.82	96.53	6.75e-04	0.0	0.0	-1341.21	-25.65	-52.01	0.05	96.53	5.82
		-141.92	-205.39	0.01	0.0	576.0	-1300.89	-25.65	-52.01	0.05	-205.39	-141.92
4	33	6.35	209.16	7.36e-04	0.0	0.0	-1299.23	-27.96	53.52	-0.08	-101.45	6.35
		-154.72	-101.45	-0.01	0.0	576.0	-1258.91	-27.96	53.52	-0.08	209.16	-154.72
4	34	5.91	214.17	6.85e-04	0.0	0.0	-1355.65	-26.02	54.80	-0.10	-99.09	5.91
		-143.99	-99.09	-0.01	0.0	576.0	-1315.33	-26.02	54.80	-0.10	214.17	-143.99
4	35	6.21	96.40	7.20e-04	0.0	0.0	-1291.52	-27.35	-53.21	0.04	96.40	6.21
		-151.34	-210.10	0.01	0.0	576.0	-1251.20	-27.35	-53.21	0.04	-210.10	-151.34
4	36	5.88	94.31	6.81e-04	0.0	0.0	-1334.49	-25.89	-52.08	0.07	94.31	5.88
		-143.23	-205.69	0.01	0.0	576.0	-1294.17	-25.89	-52.08	0.07	-205.69	-143.23
4	37	6.29	209.46	7.29e-04	0.0	0.0	-1305.95	-27.73	53.59	-0.10	-99.23	6.29
		-153.41	-99.23	-0.01	0.0	576.0	-1265.63	-27.73	53.59	-0.10	209.46	-153.41
4	38	5.96	213.87	6.91e-04	0.0	0.0	-1348.92	-26.26	54.72	-0.08	-101.32	5.96
		-145.30	-101.32	-0.01	0.0	576.0	-1308.60	-26.26	54.72	-0.08	213.87	-145.30
4	39	6.80	22.86	7.88e-04	0.0	0.0	-1222.98	-29.97	-17.36	0.03	22.86	6.80
		-165.80	-69.26	2.64e-03	0.0	576.0	-1182.66	-29.97	-17.36	0.03	-69.26	-165.80
4	40	5.33	30.73	6.18e-04	0.0	0.0	-1411.05	-23.50	-13.10	-0.02	30.73	5.33
		-130.04	-52.57	3.45e-03	0.0	576.0	-1370.73	-23.50	-13.10	-0.02	-52.57	-130.04
4	41	6.83	56.34	7.92e-04	0.0	0.0	-1229.39	-30.11	14.61	-0.02	-35.65	6.83
		-166.60	-35.65	-4.30e-03	0.0	576.0	-1189.07	-30.11	14.61	-0.02	56.34	-166.60
4	42	5.37	73.03	6.22e-04	0.0	0.0	-1417.46	-23.65	18.87	-0.06	-27.78	5.37
		-130.84	-27.78	-3.36e-03	0.0	576.0	-1377.14	-23.65	18.87	-0.06	73.03	-130.84
4	43	6.80	22.95	7.89e-04	0.0	0.0	-1224.02	-29.98	-17.40	0.03	22.95	6.80
		-165.89	-69.40	2.65e-03	0.0	576.0	-1183.70	-29.98	-17.40	0.03	-69.40	-165.89
4	44	5.34	30.82	6.19e-04	0.0	0.0	-1412.09	-23.52	-13.14	-0.02	30.82	5.34
		-130.13	-52.70	3.47e-03	0.0	576.0	-1371.77	-23.52	-13.14	-0.02	-52.70	-130.13
4	45	6.83	56.47	7.92e-04	0.0	0.0	-1228.35	-30.09	14.64	-0.02	-35.74	6.83
		-166.51	-35.74	-4.31e-03	0.0	576.0	-1188.03	-30.09	14.64	-0.02	56.47	-166.51
4	46	5.36	73.17	6.22e-04	0.0	0.0	-1416.42	-23.63	18.91	-0.06	-27.87	5.36
		-130.75	-27.87	-3.38e-03	0.0	576.0	-1376.10	-23.63	18.91	-0.06	73.17	-130.75
4	47	6.62	30.29	7.68e-04	0.0	0.0	-1245.40	-29.18	-17.11	-0.04	30.29	6.62
		-161.43	-68.27	3.41e-03	0.0	576.0	-1205.08	-29.18	-17.11	-0.04	-68.27	-161.43
4	48	5.51	23.30	6.39e-04	0.0	0.0	-1388.63	-24.29	-13.35	0.05	23.30	5.51

		-134.42	-53.57	2.59e-03	0.0	576.0	-1348.31	-24.29	-13.35	0.05	-53.57	-134.42
4	49	6.65	57.34	7.71e-04	0.0	0.0	-1251.81	-29.32	14.86	-0.09	-28.22	6.65
		-162.23	-28.22	-3.35e-03	0.0	576.0	-1211.49	-29.32	14.86	-0.09	57.34	-162.23
4	50	5.55	72.04	6.43e-04	0.0	0.0	-1395.04	-24.44	18.62	6.34e-03	-35.21	5.55
		-135.21	-35.21	-4.17e-03	0.0	576.0	-1354.72	-24.44	18.62	6.34e-03	72.04	-135.21
4	51	6.63	30.38	7.68e-04	0.0	0.0	-1246.44	-29.19	-17.15	-0.04	30.38	6.63
		-161.52	-68.40	3.42e-03	0.0	576.0	-1206.12	-29.19	-17.15	-0.04	-68.40	-161.52
4	52	5.52	23.39	6.40e-04	0.0	0.0	-1389.67	-24.31	-13.39	0.05	23.39	5.52
		-134.50	-53.70	2.61e-03	0.0	576.0	-1349.35	-24.31	-13.39	0.05	-53.70	-134.50
4	53	6.65	57.47	7.71e-04	0.0	0.0	-1250.77	-29.30	14.89	-0.08	-28.31	6.65
		-162.14	-28.31	-3.36e-03	0.0	576.0	-1210.45	-29.30	14.89	-0.08	57.47	-162.14
4	54	5.54	72.17	6.43e-04	0.0	0.0	-1394.00	-24.42	18.66	7.37e-03	-35.30	5.54
		-135.12	-35.30	-4.18e-03	0.0	576.0	-1353.68	-24.42	18.66	7.37e-03	72.17	-135.12
4	55	5.54	1.82	6.42e-04	0.0	0.0	-1222.39	-24.40	0.71	-0.01	-2.26	5.54
		-135.01	-2.26	-3.83e-04	0.0	576.0	-1182.07	-24.40	0.71	-0.01	1.82	-135.01
4	56	6.08	1.88	7.05e-04	0.0	0.0	-1320.22	-26.81	0.75	-0.02	-2.46	6.08
		-148.32	-2.46	-4.20e-04	0.0	576.0	-1279.90	-26.81	0.75	-0.02	1.88	-148.32
5	1	6.76	0.79	7.83e-04	0.0	0.0	-1395.26	-29.77	-3.29	-0.11	0.79	6.76
		-164.72	-18.14	-5.98e-04	0.0	576.0	-1342.85	-29.77	-3.29	-0.11	-18.14	-164.72
5	2	6.75	0.81	7.83e-04	0.0	0.0	-1409.95	-29.75	-3.32	-0.11	0.81	6.75
		-164.62	-18.33	-6.03e-04	0.0	576.0	-1357.53	-29.75	-3.32	-0.11	-18.33	-164.62
5	3	9.02	1.18	1.05e-03	0.0	0.0	-1808.16	-39.74	-4.58	-0.15	1.18	9.02
		-219.88	-25.18	-8.13e-04	0.0	576.0	-1755.74	-39.74	-4.58	-0.15	-25.18	-219.88
5	4	9.02	1.20	1.05e-03	0.0	0.0	-1822.85	-39.72	-4.61	-0.15	1.20	9.02
		-219.78	-25.37	-8.17e-04	0.0	576.0	-1770.43	-39.72	-4.61	-0.15	-25.37	-219.78
5	5	3.87	0.40	4.49e-04	0.0	0.0	-873.43	-17.06	-1.93	-0.07	0.40	3.87
		-94.41	-10.69	-3.65e-04	0.0	576.0	-833.11	-17.06	-1.93	-0.07	-10.69	-94.41
5	6	3.87	0.42	4.48e-04	0.0	0.0	-888.12	-17.04	-1.96	-0.07	0.42	3.87
		-94.30	-10.88	-3.70e-04	0.0	576.0	-847.80	-17.04	-1.96	-0.07	-10.88	-94.30
5	7	6.14	0.80	7.11e-04	0.0	0.0	-1286.33	-27.03	-3.22	-0.11	0.80	6.14
		-149.57	-17.73	-5.80e-04	0.0	576.0	-1246.01	-27.03	-3.22	-0.11	-17.73	-149.57
5	8	6.13	0.82	7.11e-04	0.0	0.0	-1301.02	-27.01	-3.25	-0.11	0.82	6.13
		-149.46	-17.92	-5.84e-04	0.0	576.0	-1260.70	-27.01	-3.25	-0.11	-17.92	-149.46
5	9	6.75	0.82	7.82e-04	0.0	0.0	-1424.64	-29.73	-3.36	-0.11	0.82	6.75
		-164.51	-18.52	-6.07e-04	0.0	576.0	-1372.22	-29.73	-3.36	-0.11	-18.52	-164.51
5	10	8.34	1.06	9.67e-04	0.0	0.0	-1684.29	-36.75	-4.19	-0.14	1.06	8.34
		-203.34	-23.07	-7.49e-04	0.0	576.0	-1631.87	-36.75	-4.19	-0.14	-23.07	-203.34
5	11	8.33	1.10	9.66e-04	0.0	0.0	-1713.67	-36.71	-4.26	-0.14	1.10	8.33
		-203.13	-23.45	-7.57e-04	0.0	576.0	-1661.25	-36.71	-4.26	-0.14	-23.45	-203.13
5	12	3.86	0.44	4.48e-04	0.0	0.0	-902.81	-17.02	-2.00	-0.07	0.44	3.86
		-94.20	-11.07	-3.74e-04	0.0	576.0	-862.49	-17.02	-2.00	-0.07	-11.07	-94.20
5	13	5.46	0.68	6.33e-04	0.0	0.0	-1162.46	-24.04	-2.83	-0.10	0.68	5.46
		-133.02	-15.62	-5.15e-04	0.0	576.0	-1122.14	-24.04	-2.83	-0.10	-15.62	-133.02
5	14	5.45	0.71	6.32e-04	0.0	0.0	-1191.84	-24.00	-2.90	-0.10	0.71	5.45
		-132.81	-16.00	-5.24e-04	0.0	576.0	-1151.52	-24.00	-2.90	-0.10	-16.00	-132.81
5	15	6.97	0.76	8.08e-04	0.0	0.0	-1366.04	-30.71	-3.26	-0.11	0.76	6.97
		-169.94	-18.03	-5.99e-04	0.0	576.0	-1313.62	-30.71	-3.26	-0.11	-18.03	-169.94
5	16	6.97	0.78	8.08e-04	0.0	0.0	-1380.73	-30.69	-3.30	-0.11	0.78	6.97
		-169.83	-18.22	-6.04e-04	0.0	576.0	-1328.31	-30.69	-3.30	-0.11	-18.22	-169.83
5	17	8.55	1.04	9.92e-04	0.0	0.0	-1655.07	-37.69	-4.17	-0.14	1.04	8.55
		-208.55	-22.96	-7.49e-04	0.0	576.0	-1602.65	-37.69	-4.17	-0.14	-22.96	-208.55
5	18	8.55	1.06	9.91e-04	0.0	0.0	-1669.76	-37.67	-4.20	-0.14	1.06	8.55
		-208.44	-23.15	-7.54e-04	0.0	576.0	-1617.34	-37.67	-4.20	-0.14	-23.15	-208.44
5	19	4.09	0.38	4.74e-04	0.0	0.0	-844.21	-18.00	-1.90	-0.07	0.38	4.09
		-99.62	-10.58	-3.66e-04	0.0	576.0	-803.89	-18.00	-1.90	-0.07	-10.58	-99.62
5	20	4.08	0.40	4.73e-04	0.0	0.0	-858.90	-17.99	-1.94	-0.07	0.40	4.08
		-99.51	-10.77	-3.70e-04	0.0	576.0	-818.58	-17.99	-1.94	-0.07	-10.77	-99.51
5	21	5.67	0.65	6.57e-04	0.0	0.0	-1133.24	-24.98	-2.81	-0.10	0.65	5.67
		-138.23	-15.51	-5.16e-04	0.0	576.0	-1092.92	-24.98	-2.81	-0.10	-15.51	-138.23
5	22	5.67	0.67	6.57e-04	0.0	0.0	-1147.93	-24.96	-2.84	-0.10	0.67	5.67
		-138.13	-15.70	-5.21e-04	0.0	576.0	-1107.61	-24.96	-2.84	-0.10	-15.70	-138.13
5	23	5.35	95.80	6.20e-04	0.0	0.0	-1148.74	-23.56	-54.01	4.87e-04	95.80	5.35
		-130.37	-215.28	0.01	0.0	576.0	-1108.42	-23.56	-54.01	4.87e-04	-215.28	-130.37
5	24	4.92	98.23	5.70e-04	0.0	0.0	-1210.91	-21.66	-55.37	-0.02	98.23	4.92
		-119.83	-220.69	0.01	0.0	576.0	-1170.59	-21.66	-55.37	-0.02	-220.69	-119.83
5	25	5.52	190.58	6.40e-04	0.0	0.0	-1117.64	-24.31	49.90	-0.15	-96.85	5.52
		-134.53	-96.85	-0.01	0.0	576.0	-1077.32	-24.31	49.90	-0.15	190.58	-134.53
5	26	5.09	185.17	5.90e-04	0.0	0.0	-1179.81	-22.41	48.54	-0.17	-94.42	5.09
		-123.99	-94.42	-0.01	0.0	576.0	-1139.49	-22.41	48.54	-0.17	185.17	-123.99
5	27	5.28	98.10	6.13e-04	0.0	0.0	-1157.49	-23.28	-55.29	-0.03	98.10	5.28
		-128.81	-220.39	0.01	0.0	576.0	-1117.17	-23.28	-55.29	-0.03	-220.39	-128.81
5	28	4.98	95.93	5.77e-04	0.0	0.0	-1202.17	-21.94	-54.08	0.01	95.93	4.98
		-121.39	-215.58	0.01	0.0	576.0	-1161.85	-21.94	-54.08	0.01	-215.58	-121.39
5	29	5.45	185.47	6.32e-04	0.0	0.0	-1126.38	-24.03	48.62	-0.18	-94.55	5.45
		-132.97	-94.55	-0.01	0.0	576.0	-1086.06	-24.03	48.62	-0.18	185.47	-132.97
5	30	5.15	190.28	5.97e-04	0.0	0.0	-1171.06	-22.69	49.82	-0.14	-96.72	5.15
		-125.55	-96.72	-0.01	0.0	576.0	-1130.74	-22.69	49.82	-0.14	190.28	-125.55
5	31	5.32	96.24	6.16e-04	0.0	0.0	-1154.15	-23.42	-54.29	-9.69e-03	96.24	5.32
		-129.61	-216.49	0.01	0.0	576.0	-1113.83	-23.42	-54.29	-9.69e-03	-216.49	-129.61
5	32	4.88	98.67	5.66e-04	0.0	0.0	-1216.32	-21.52	-55.66	-0.03	98.67	4.88
		-119.07	-221.91	0.01	0.0	576.0	-1176.00	-21.52	-55.66	-0.03	-221.91	-119.07
5	33	5.55	191.80	6.43e-04	0.0	0.0	-1112.23	-24.45	50.19	-0.14	-97.29	5.55
		-135.30	-97.29	-0.01	0.0	576.0	-1071.91	-24.45	50.19	-0.14	191.80	-135.30
5	34	5.12	186.38	5.93e-04	0.0	0.0	-1174.40	-22.55	48.83	-0.16	-94.86	5.12
		-124.76	-94.86	-0.01	0.0	576.0	-1134.08	-22.55	48.83	-0.16	186.38	-124.76
5	35	5.25	98.54	6.09e-04	0.0	0.0	-1162.90	-23.14	-55.58	-0.04	98.54	5.25
		-128.05	-221.60	0.01	0.0	576.0	-1122.58	-23.14	-55.58	-0.04	-221.60	-128.05
5	36	4.95	96.37	5.74e-04	0.0	0.0	-1207.58	-21.80	-54.37	8.59e-04	96.37	4.95
		-120.63	-216.80	0.01	0.0	576.0	-1167.26	-21.80	-54.37	8.59e-04	-216.80	-120.63
5	37	5.49	186.68	6.36e-04	0.0	0.0	-1120.98	-24.17	48.90	-0.17	-94.99	5.49
		-133.74	-94.99	-0.01	0.0	576.0	-1080.66	-24.17	48.90	-0.17	186.68	-133.74
5	38	5.18	191.49	6.01e-04	0.0	0.0	-1165.66	-22.83	50.11	-0.13	-97.16	5.18
		-126.32	-97.16	-0.01	0.0	576.0	-1125.34	-22.83	50.11	-0.13	191.49	-126.32
5	39	5.91	25.53	6.85e-04	0.0	0.0	-1065.33	-26.05	-16.05	-0.04	25.53	5.91
		-144.12	-66.91	2.63e-03	0.0	576.0	-1025.01	-26.05	-16.05	-0.04	-66.91	-144.12
5	40	4.47	33.64	5.18e-04	0.0	0.0	-1272.56	-19.70	-20.59	-0.09	33.64	4.47

		-109.00	-84.96	3.55e-03	0.0	576.0	-1232.24	-19.70	-20.59	-0.09	-84.96	-109.00
5	41	5.96	54.85	6.91e-04	0.0	0.0	-1056.00	-26.27	15.12	-0.08	-32.26	5.96
		-145.37	-32.26	-4.25e-03	0.0	576.0	-1015.68	-26.27	15.12	-0.08	54.85	-145.37
5	42	4.52	36.80	5.24e-04	0.0	0.0	-1263.22	-19.92	10.58	-0.13	-24.15	4.52
		-110.24	-24.15	-3.36e-03	0.0	576.0	-1222.90	-19.92	10.58	-0.13	36.80	-110.24
5	43	5.90	25.66	6.84e-04	0.0	0.0	-1066.95	-26.01	-16.14	-0.04	25.66	5.90
		-143.89	-67.27	2.64e-03	0.0	576.0	-1026.63	-26.01	-16.14	-0.04	-67.27	-143.89
5	44	4.46	33.78	5.17e-04	0.0	0.0	-1274.18	-19.66	-20.68	-0.09	33.78	4.46
		-108.77	-85.33	3.56e-03	0.0	576.0	-1233.86	-19.66	-20.68	-0.09	-85.33	-108.77
5	45	5.97	55.22	6.92e-04	0.0	0.0	-1054.37	-26.31	15.21	-0.08	-32.40	5.97
		-145.60	-32.40	-4.26e-03	0.0	576.0	-1014.05	-26.31	15.21	-0.08	55.22	-145.60
5	46	4.53	37.16	5.25e-04	0.0	0.0	-1261.60	-19.97	10.67	-0.13	-24.28	4.53
		-110.47	-24.28	-3.37e-03	0.0	576.0	-1221.28	-19.97	10.67	-0.13	37.16	-110.47
5	47	5.70	33.20	6.61e-04	0.0	0.0	-1094.47	-25.11	-20.33	-0.12	33.20	5.70
		-138.93	-83.95	3.50e-03	0.0	576.0	-1054.15	-25.11	-20.33	-0.12	-83.95	-138.93
5	48	4.68	25.98	5.43e-04	0.0	0.0	-1243.41	-20.64	-16.31	-3.82e-04	25.98	4.68
		-114.19	-67.92	2.68e-03	0.0	576.0	-1203.09	-20.64	-16.31	-3.82e-04	-67.92	-114.19
5	49	5.75	37.81	6.67e-04	0.0	0.0	-1085.14	-25.33	10.84	-0.17	-24.60	5.75
		-140.18	-24.60	-3.40e-03	0.0	576.0	-1044.82	-25.33	10.84	-0.17	37.81	-140.18
5	50	4.74	53.84	5.49e-04	0.0	0.0	-1234.08	-20.86	14.87	-0.05	-31.82	4.74
		-115.44	-31.82	-4.21e-03	0.0	576.0	-1193.76	-20.86	14.87	-0.05	53.84	-115.44
5	51	5.69	33.33	6.60e-04	0.0	0.0	-1096.10	-25.07	-20.42	-0.13	33.33	5.69
		-138.70	-84.31	3.52e-03	0.0	576.0	-1055.78	-25.07	-20.42	-0.13	-84.31	-138.70
5	52	4.67	26.11	5.42e-04	0.0	0.0	-1245.03	-20.60	-16.39	-3.44e-03	26.11	4.67
		-113.96	-68.29	2.69e-03	0.0	576.0	-1204.71	-20.60	-16.39	-3.44e-03	-68.29	-113.96
5	53	5.76	38.17	6.68e-04	0.0	0.0	-1083.52	-25.38	10.92	-0.17	-24.73	5.76
		-140.40	-24.73	-3.42e-03	0.0	576.0	-1043.20	-25.38	10.92	-0.17	38.17	-140.40
5	54	4.74	54.20	5.50e-04	0.0	0.0	-1232.46	-20.91	14.95	-0.04	-31.95	4.74
		-115.67	-31.95	-4.22e-03	0.0	576.0	-1192.14	-20.91	14.95	-0.04	54.20	-115.67
5	55	4.76	0.61	5.52e-04	0.0	0.0	-1081.70	-20.99	-2.48	-0.08	0.61	4.76
		-116.15	-13.65	-4.47e-04	0.0	576.0	-1041.38	-20.99	-2.48	-0.08	-13.65	-116.15
5	56	5.22	0.69	6.05e-04	0.0	0.0	-1164.28	-22.99	-2.73	-0.09	0.69	5.22
		-127.18	-15.06	-4.89e-04	0.0	576.0	-1123.96	-22.99	-2.73	-0.09	-15.06	-127.18
6	1	2.52	1.30	3.10e-04	0.0	0.0	-801.70	-12.03	-5.22	-0.21	1.30	2.52
		-66.77	-28.75	-6.60e-04	0.0	576.0	-749.29	-12.03	-5.22	-0.21	-28.75	-66.77
6	2	2.51	1.31	3.09e-04	0.0	0.0	-811.12	-12.02	-5.26	-0.21	1.31	2.51
		-66.71	-28.96	-6.64e-04	0.0	576.0	-758.70	-12.02	-5.26	-0.21	-28.96	-66.71
6	3	3.51	1.75	4.32e-04	0.0	0.0	-1011.04	-16.78	-7.05	-0.25	1.75	3.51
		-93.13	-38.83	-8.93e-04	0.0	576.0	-958.62	-16.78	-7.05	-0.25	-38.83	-93.13
6	4	3.51	1.76	4.32e-04	0.0	0.0	-1020.45	-16.77	-7.08	-0.25	1.76	3.51
		-93.07	-39.04	-8.97e-04	0.0	576.0	-968.03	-16.77	-7.08	-0.25	-39.04	-93.07
6	5	1.36	0.76	1.68e-04	0.0	0.0	-511.66	-6.52	-3.14	-0.16	0.76	1.36
		-36.18	-17.32	-4.03e-04	0.0	576.0	-471.34	-6.52	-3.14	-0.16	-17.32	-36.18
6	6	1.36	0.77	1.68e-04	0.0	0.0	-521.07	-6.51	-3.18	-0.16	0.77	1.36
		-36.12	-17.53	-4.08e-04	0.0	576.0	-480.75	-6.51	-3.18	-0.16	-17.53	-36.12
6	7	2.36	1.21	2.90e-04	0.0	0.0	-720.99	-11.27	-4.97	-0.21	1.21	2.36
		-62.54	-27.40	-6.36e-04	0.0	576.0	-680.67	-11.27	-4.97	-0.21	-27.40	-62.54
6	8	2.35	1.22	2.90e-04	0.0	0.0	-730.41	-11.26	-5.01	-0.21	1.22	2.35
		-62.48	-27.61	-6.41e-04	0.0	576.0	-690.09	-11.26	-5.01	-0.21	-27.61	-62.48
6	9	2.51	1.32	3.09e-04	0.0	0.0	-820.53	-12.01	-5.29	-0.21	1.32	2.51
		-66.65	-29.17	-6.69e-04	0.0	576.0	-768.11	-12.01	-5.29	-0.21	-29.17	-66.65
6	10	3.21	1.61	3.95e-04	0.0	0.0	-948.24	-15.35	-6.50	-0.24	1.61	3.21
		-85.22	-35.81	-8.23e-04	0.0	576.0	-895.82	-15.35	-6.50	-0.24	-35.81	-85.22
6	11	3.21	1.63	3.95e-04	0.0	0.0	-967.06	-15.33	-6.57	-0.24	1.63	3.21
		-85.10	-36.23	-8.32e-04	0.0	576.0	-914.65	-15.33	-6.57	-0.24	-36.23	-85.10
6	12	1.36	0.78	1.67e-04	0.0	0.0	-530.49	-6.50	-3.22	-0.16	0.78	1.36
		-36.06	-17.74	-4.12e-04	0.0	576.0	-490.17	-6.50	-3.22	-0.16	-17.74	-36.06
6	13	2.06	1.08	2.53e-04	0.0	0.0	-658.19	-9.84	-4.42	-0.19	1.08	2.06
		-54.63	-24.38	-5.66e-04	0.0	576.0	-617.87	-9.84	-4.42	-0.19	-24.38	-54.63
6	14	2.05	1.10	2.53e-04	0.0	0.0	-677.02	-9.82	-4.50	-0.20	1.10	2.05
		-54.51	-24.80	-5.76e-04	0.0	576.0	-636.70	-9.82	-4.50	-0.20	-24.80	-54.51
6	15	2.53	1.26	3.12e-04	0.0	0.0	-778.85	-12.10	-5.15	-0.27	1.26	2.53
		-67.17	-28.43	-6.60e-04	0.0	576.0	-726.43	-12.10	-5.15	-0.27	-28.43	-67.17
6	16	2.53	1.27	3.11e-04	0.0	0.0	-788.26	-12.09	-5.19	-0.27	1.27	2.53
		-67.11	-28.64	-6.64e-04	0.0	576.0	-735.85	-12.09	-5.19	-0.27	-28.64	-67.11
6	17	3.23	1.57	3.97e-04	0.0	0.0	-925.38	-15.43	-6.43	-0.30	1.57	3.23
		-85.62	-35.49	-8.23e-04	0.0	576.0	-872.97	-15.43	-6.43	-0.30	-35.49	-85.62
6	18	3.22	1.58	3.97e-04	0.0	0.0	-934.80	-15.42	-6.47	-0.30	1.58	3.22
		-85.57	-35.70	-8.28e-04	0.0	576.0	-882.38	-15.42	-6.47	-0.30	-35.70	-85.57
6	19	1.38	0.73	1.70e-04	0.0	0.0	-488.81	-6.59	-3.08	-0.22	0.73	1.38
		-36.58	-17.00	-4.03e-04	0.0	576.0	-448.49	-6.59	-3.08	-0.22	-17.00	-36.58
6	20	1.38	0.74	1.69e-04	0.0	0.0	-498.22	-6.58	-3.12	-0.22	0.74	1.38
		-36.52	-17.21	-4.08e-04	0.0	576.0	-457.90	-6.58	-3.12	-0.22	-17.21	-36.52
6	21	2.07	1.04	2.55e-04	0.0	0.0	-635.34	-9.91	-4.36	-0.25	1.04	2.07
		-55.03	-24.06	-5.67e-04	0.0	576.0	-595.02	-9.91	-4.36	-0.25	-24.06	-55.03
6	22	2.07	1.05	2.55e-04	0.0	0.0	-644.75	-9.90	-4.40	-0.26	1.05	2.07
		-54.98	-24.27	-5.71e-04	0.0	576.0	-604.43	-9.90	-4.40	-0.26	-24.27	-54.98
6	23	2.28	57.61	2.80e-04	0.0	0.0	-833.11	-10.89	-39.49	-7.43e-03	57.61	2.28
		-60.47	-169.87	0.01	0.0	576.0	-792.79	-10.89	-39.49	-7.43e-03	-169.87	-60.47
6	24	2.22	59.12	2.74e-04	0.0	0.0	-885.50	-10.64	-40.57	0.02	59.12	2.22
		-59.05	-174.56	0.01	0.0	576.0	-845.18	-10.64	-40.57	0.02	-174.56	-59.05
6	25	1.85	126.81	2.28e-04	0.0	0.0	-458.46	-8.86	31.89	-0.21	-56.91	1.85
		-49.19	-56.91	-0.01	0.0	576.0	-418.14	-8.86	31.89	-0.21	126.81	-49.19
6	26	1.80	122.12	2.22e-04	0.0	0.0	-510.85	-8.61	30.82	-0.19	-55.40	1.80
		-47.77	-55.40	-0.01	0.0	576.0	-470.53	-8.61	30.82	-0.19	122.12	-47.77
6	27	2.27	59.04	2.80e-04	0.0	0.0	-837.53	-10.87	-40.54	-0.01	59.04	2.27
		-60.34	-174.52	0.01	0.0	576.0	-797.21	-10.87	-40.54	-0.01	-174.52	-60.34
6	28	2.23	57.69	2.74e-04	0.0	0.0	-881.07	-10.66	-39.52	0.02	57.69	2.23
		-59.17	-169.92	0.01	0.0	576.0	-840.75	-10.66	-39.52	0.02	-169.92	-59.17
6	29	1.85	122.17	2.28e-04	0.0	0.0	-462.88	-8.84	30.84	-0.22	-55.48	1.85
		-49.07	-55.48	-0.01	0.0	576.0	-422.56	-8.84	30.84	-0.22	122.17	-49.07
6	30	1.80	126.77	2.22e-04	0.0	0.0	-506.42	-8.63	31.87	-0.18	-56.84	1.80
		-47.90	-56.84	-0.01	0.0	576.0	-466.10	-8.63	31.87	-0.18	126.77	-47.90
6	31	2.29	57.96	2.81e-04	0.0	0.0	-831.60	-10.93	-39.87	-0.01	57.96	2.29
		-60.66	-171.70	0.01	0.0	576.0	-791.28	-10.93	-39.87	-0.01	-171.70	-60.66
6	32	2.23	59.47	2.75e-04	0.0	0.0	-883.99	-10.67	-40.94	0.01	59.47	2.23

		-59.24	-176.39	0.01	0.0	576.0	-843.67	-10.67	-40.94	0.01	-176.39	-59.24
6	33	1.85	128.64	2.27e-04	0.0	0.0	-459.97	-8.83	32.27	-0.21	-57.26	1.85
		-49.00	-57.26	-0.01	0.0	576.0	-419.65	-8.83	32.27	-0.21	128.64	-49.00
6	34	1.79	123.95	2.21e-04	0.0	0.0	-512.35	-8.57	31.20	-0.18	-55.75	1.79
		-47.58	-55.75	-0.01	0.0	576.0	-472.03	-8.57	31.20	-0.18	123.95	-47.58
6	35	2.28	59.39	2.81e-04	0.0	0.0	-836.03	-10.91	-40.92	-0.02	59.39	2.28
		-60.54	-176.34	0.01	0.0	576.0	-795.71	-10.91	-40.92	-0.02	-176.34	-60.54
6	36	2.24	58.03	2.75e-04	0.0	0.0	-879.56	-10.69	-39.89	0.02	58.03	2.24
		-59.37	-171.74	0.01	0.0	576.0	-839.24	-10.69	-39.89	0.02	-171.74	-59.37
6	37	1.84	123.99	2.27e-04	0.0	0.0	-464.39	-8.80	31.22	-0.21	-55.83	1.84
		-48.87	-55.83	-0.01	0.0	576.0	-424.07	-8.80	31.22	-0.21	123.99	-48.87
6	38	1.80	128.60	2.21e-04	0.0	0.0	-507.93	-8.59	32.25	-0.18	-57.19	1.80
		-47.70	-57.19	-0.01	0.0	576.0	-467.61	-8.59	32.25	-0.18	128.60	-47.70
6	39	2.19	15.77	2.70e-04	0.0	0.0	-640.87	-10.48	-13.25	-0.11	15.77	2.19
		-58.17	-60.56	2.58e-03	0.0	576.0	-600.55	-10.48	-13.25	-0.11	-60.56	-58.17
6	40	2.01	20.80	2.48e-04	0.0	0.0	-815.48	-9.63	-16.83	-0.02	20.80	2.01
		-53.45	-76.20	3.48e-03	0.0	576.0	-775.16	-9.63	-16.83	-0.02	-76.20	-53.45
6	41	2.06	28.45	2.54e-04	0.0	0.0	-528.48	-9.87	8.16	-0.17	-18.59	2.06
		-54.79	-18.59	-4.29e-03	0.0	576.0	-488.16	-9.87	8.16	-0.17	28.45	-54.79
6	42	1.89	12.81	2.32e-04	0.0	0.0	-703.09	-9.02	4.58	-0.09	-13.56	1.89
		-50.06	-13.56	-3.40e-03	0.0	576.0	-662.77	-9.02	4.58	-0.09	12.81	-50.06
6	43	2.19	15.87	2.70e-04	0.0	0.0	-640.42	-10.49	-13.37	-0.11	15.87	2.19
		-58.23	-61.11	2.60e-03	0.0	576.0	-600.10	-10.49	-13.37	-0.11	-61.11	-58.23
6	44	2.02	20.90	2.48e-04	0.0	0.0	-815.03	-9.64	-16.95	-0.03	20.90	2.02
		-53.50	-76.75	3.50e-03	0.0	576.0	-774.71	-9.64	-16.95	-0.03	-76.75	-53.50
6	45	2.06	29.00	2.54e-04	0.0	0.0	-528.93	-9.86	8.28	-0.17	-18.70	2.06
		-54.73	-18.70	-4.30e-03	0.0	576.0	-488.61	-9.86	8.28	-0.17	29.00	-54.73
6	46	1.88	13.36	2.32e-04	0.0	0.0	-703.54	-9.01	4.69	-0.08	-13.67	1.88
		-50.01	-13.67	-3.41e-03	0.0	576.0	-663.22	-9.01	4.69	-0.08	13.36	-50.01
6	47	2.18	20.54	2.68e-04	0.0	0.0	-655.61	-10.41	-16.75	-0.13	20.54	2.18
		-57.76	-76.05	3.44e-03	0.0	576.0	-615.29	-10.41	-16.75	-0.13	-76.05	-57.76
6	48	2.03	16.02	2.50e-04	0.0	0.0	-800.74	-9.70	-13.34	-5.81e-03	16.02	2.03
		-53.86	-60.71	2.62e-03	0.0	576.0	-760.42	-9.70	-13.34	-5.81e-03	-60.71	-53.86
6	49	2.05	12.96	2.52e-04	0.0	0.0	-543.22	-9.80	4.66	-0.19	-13.81	2.05
		-54.38	-13.81	-3.45e-03	0.0	576.0	-502.90	-9.80	4.66	-0.19	12.96	-54.38
6	50	1.90	28.30	2.34e-04	0.0	0.0	-688.35	-9.09	8.08	-0.07	-18.34	1.90
		-50.47	-18.34	-4.24e-03	0.0	576.0	-648.03	-9.09	8.08	-0.07	28.30	-50.47
6	51	2.18	20.65	2.68e-04	0.0	0.0	-655.16	-10.42	-16.86	-0.13	20.65	2.18
		-57.82	-76.59	3.45e-03	0.0	576.0	-614.84	-10.42	-16.86	-0.13	-76.59	-57.82
6	52	2.03	16.12	2.50e-04	0.0	0.0	-800.29	-9.71	-13.45	-7.79e-03	16.12	2.03
		-53.92	-61.26	2.63e-03	0.0	576.0	-759.97	-9.71	-13.45	-7.79e-03	-61.26	-53.92
6	53	2.05	13.51	2.52e-04	0.0	0.0	-543.67	-9.79	4.78	-0.19	-13.92	2.05
		-54.32	-13.92	-3.46e-03	0.0	576.0	-503.35	-9.79	4.78	-0.19	13.51	-54.32
6	54	1.90	28.84	2.34e-04	0.0	0.0	-688.80	-9.08	8.19	-0.07	-18.44	1.90
		-50.42	-18.44	-4.25e-03	0.0	576.0	-648.48	-9.08	8.19	-0.07	28.84	-50.42
6	55	1.84	1.01	2.27e-04	0.0	0.0	-630.11	-8.80	-3.97	-0.09	1.01	1.84
		-48.85	-21.86	-4.93e-04	0.0	576.0	-589.79	-8.80	-3.97	-0.09	-21.86	-48.85
6	56	2.04	1.10	2.51e-04	0.0	0.0	-671.98	-9.75	-4.34	-0.10	1.10	2.04
		-54.12	-23.87	-5.40e-04	0.0	576.0	-631.66	-9.75	-4.34	-0.10	-23.87	-54.12
7	1	12.23	0.15	-2.62e-04	0.0	0.0	-738.77	2.66	-0.65	3.95e-03	0.15	-3.09
		-3.09	-3.59	-5.38e-04	0.0	576.0	-710.69	2.66	-0.65	3.95e-03	-3.59	12.23
7	2	12.24	0.15	-2.62e-04	0.0	0.0	-744.25	2.66	-0.65	3.82e-03	0.15	-3.09
		-3.09	-3.61	-5.42e-04	0.0	576.0	-716.17	2.66	-0.65	3.82e-03	-3.61	12.24
7	3	19.33	0.27	-3.98e-04	0.0	0.0	-952.16	4.18	-0.92	7.47e-04	0.27	-4.75
		-4.75	-5.03	-7.29e-04	0.0	576.0	-924.08	4.18	-0.92	7.47e-04	-5.03	19.33
7	4	19.33	0.27	-3.99e-04	0.0	0.0	-957.65	4.18	-0.92	6.24e-04	0.27	-4.76
		-4.76	-5.05	-7.33e-04	0.0	576.0	-929.57	4.18	-0.92	6.24e-04	-5.05	19.33
7	5	4.24	0.02	-1.09e-04	0.0	0.0	-475.01	0.95	-0.36	8.49e-03	0.02	-1.22
		-1.22	-2.05	-3.30e-04	0.0	576.0	-453.41	0.95	-0.36	8.49e-03	-2.05	4.24
7	6	4.25	0.02	-1.10e-04	0.0	0.0	-480.49	0.95	-0.36	8.37e-03	0.02	-1.23
		-1.23	-2.07	-3.34e-04	0.0	576.0	-458.89	0.95	-0.36	8.37e-03	-2.07	4.25
7	7	11.34	0.14	-2.46e-04	0.0	0.0	-688.41	2.47	-0.63	5.29e-03	0.14	-2.89
		-2.89	-3.50	-5.21e-04	0.0	576.0	-666.81	2.47	-0.63	5.29e-03	-3.50	11.34
7	8	11.34	0.14	-2.46e-04	0.0	0.0	-693.89	2.47	-0.63	5.17e-03	0.14	-2.89
		-2.89	-3.51	-5.25e-04	0.0	576.0	-672.29	2.47	-0.63	5.17e-03	-3.51	11.34
7	9	12.24	0.14	-2.62e-04	0.0	0.0	-749.73	2.66	-0.65	3.70e-03	0.14	-3.09
		-3.09	-3.63	-5.46e-04	0.0	576.0	-721.65	2.66	-0.65	3.70e-03	-3.63	12.24
7	10	17.20	0.23	-3.57e-04	0.0	0.0	-888.15	3.72	-0.84	1.71e-03	0.23	-4.25
		-4.25	-4.60	-6.72e-04	0.0	576.0	-860.07	3.72	-0.84	1.71e-03	-4.60	17.20
7	11	17.21	0.23	-3.58e-04	0.0	0.0	-899.11	3.73	-0.85	1.46e-03	0.23	-4.26
		-4.26	-4.64	-6.80e-04	0.0	576.0	-871.03	3.73	-0.85	1.46e-03	-4.64	17.21
7	12	4.25	0.02	-1.10e-04	0.0	0.0	-485.97	0.95	-0.37	8.24e-03	0.02	-1.23
		-1.23	-2.09	-3.38e-04	0.0	576.0	-464.37	0.95	-0.37	8.24e-03	-2.09	4.25
7	13	9.21	0.11	-2.05e-04	0.0	0.0	-624.39	2.01	-0.55	6.25e-03	0.11	-2.39
		-2.39	-3.06	-4.64e-04	0.0	576.0	-602.79	2.01	-0.55	6.25e-03	-3.06	9.21
7	14	9.22	0.10	-2.06e-04	0.0	0.0	-635.35	2.02	-0.56	6.00e-03	0.10	-2.40
		-2.40	-3.10	-4.71e-04	0.0	576.0	-613.75	2.02	-0.56	6.00e-03	-3.10	9.22
7	15	8.53	0.03	-2.05e-04	0.0	0.0	-746.66	1.89	-0.58	0.01	0.03	-2.33
		-2.33	-3.30	-5.40e-04	0.0	576.0	-718.58	1.89	-0.58	0.01	-3.30	8.53
7	16	8.54	0.03	-2.05e-04	0.0	0.0	-752.14	1.89	-0.58	0.01	0.03	-2.34
		-2.34	-3.31	-5.43e-04	0.0	576.0	-724.06	1.89	-0.58	0.01	-3.31	8.54
7	17	13.50	0.12	-3.00e-04	0.0	0.0	-896.03	2.95	-0.77	0.01	0.12	-3.50
		-3.50	-4.31	-6.73e-04	0.0	576.0	-867.95	2.95	-0.77	0.01	-4.31	13.50
7	18	13.50	0.11	-3.01e-04	0.0	0.0	-901.52	2.95	-0.77	0.01	0.11	-3.50
		-3.50	-4.32	-6.77e-04	0.0	576.0	-873.44	2.95	-0.77	0.01	-4.32	13.50
7	19	0.55	-0.10	-7.80e-05	0.0	0.0	-482.90	0.18	-0.29	0.02	-0.10	-0.47
		-0.47	-1.76	-3.31e-04	0.0	576.0	-461.30	0.18	-0.29	0.02	-1.76	0.55
7	20	0.55	-0.10	-7.85e-05	0.0	0.0	-488.38	0.18	-0.29	0.02	-0.10	-0.47
		-0.47	-1.78	-3.35e-04	0.0	576.0	-466.78	0.18	-0.29	0.02	-1.78	0.55
7	21	5.51	-9.90e-03	-1.49e-04	0.0	0.0	-632.28	1.24	-0.48	0.02	-9.90e-03	-1.64
		-1.64	-2.77	-4.65e-04	0.0	576.0	-610.68	1.24	-0.48	0.02	-2.77	5.51
7	22	5.52	-0.01	-1.49e-04	0.0	0.0	-637.76	1.24	-0.48	0.02	-0.01	-1.64
		-1.64	-2.79	-4.69e-04	0.0	576.0	-616.16	1.24	-0.48	0.02	-2.79	5.52
7	23	7.89	30.29	1.89e-03	0.0	0.0	-683.53	-2.51	-10.70	0.02	30.29	7.89
		-6.57	-31.33	0.01	0.0	576.0	-661.93	-2.51	-10.70	0.02	-31.33	-6.57
7	24	6.55	31.24	1.99e-03	0.0	0.0	-659.11	-1.04	-11.08	-1.38e-03	31.24	6.55

		0.55	-32.62	0.01	0.0	576.0	-637.51	-1.04	-11.08	-1.38e-03	-32.62	0.55
7	25	28.61	26.00	-2.05e-03	0.0	0.0	-519.01	7.30	9.84	-0.02	-30.71	-13.46
		-13.46	-30.71	-0.01	0.0	576.0	-497.41	7.30	9.84	-0.02	26.00	28.61
7	26	35.72	24.71	-2.02e-03	0.0	0.0	-494.59	8.77	9.45	-0.04	-29.75	-14.81
		-14.81	-29.75	-0.01	0.0	576.0	-472.99	8.77	9.45	-0.04	24.71	35.72
7	27	7.68	30.37	1.95e-03	0.0	0.0	-680.07	-2.28	-10.73	-0.02	30.37	7.68
		-5.45	-31.46	0.01	0.0	576.0	-658.47	-2.28	-10.73	-0.02	-31.46	-5.45
7	28	6.75	31.16	1.94e-03	0.0	0.0	-662.57	-1.27	-11.05	0.03	31.16	6.75
		-0.57	-32.50	0.01	0.0	576.0	-640.97	-1.27	-11.05	0.03	-32.50	-0.57
7	29	29.72	25.87	-2.00e-03	0.0	0.0	-515.55	7.53	9.80	-0.05	-30.63	-13.67
		-13.67	-30.63	-0.01	0.0	576.0	-493.95	7.53	9.80	-0.05	25.87	29.72
7	30	34.61	24.83	-2.06e-03	0.0	0.0	-498.05	8.54	9.49	-3.18e-03	-29.83	-14.60
		-14.60	-29.83	-0.01	0.0	576.0	-476.45	8.54	9.49	-3.18e-03	24.83	34.61
7	31	7.58	30.43	1.92e-03	0.0	0.0	-682.37	-2.14	-10.74	-0.02	30.43	7.58
		-4.78	-31.43	0.01	0.0	576.0	-660.77	-2.14	-10.74	-0.02	-31.43	-4.78
7	32	6.24	31.38	2.02e-03	0.0	0.0	-657.95	-0.68	-11.12	-0.04	31.38	6.24
		2.34	-32.72	0.01	0.0	576.0	-636.35	-0.68	-11.12	-0.04	-32.72	2.34
7	33	26.82	26.09	-2.07e-03	0.0	0.0	-520.17	6.94	9.88	0.02	-30.85	-13.16
		-13.16	-30.85	-0.01	0.0	576.0	-498.57	6.94	9.88	0.02	26.09	26.82
7	34	33.93	24.80	-2.03e-03	0.0	0.0	-495.75	8.41	9.49	2.61e-03	-29.89	-14.50
		-14.50	-29.89	-0.01	0.0	576.0	-474.15	8.41	9.49	2.61e-03	24.80	33.93
7	35	7.37	30.51	1.98e-03	0.0	0.0	-678.91	-1.91	-10.77	-0.06	30.51	7.37
		-3.66	-31.55	0.01	0.0	576.0	-657.31	-1.91	-10.77	-0.06	-31.55	-3.66
7	36	6.45	31.30	1.96e-03	0.0	0.0	-661.41	-0.91	-11.09	-7.17e-03	31.30	6.45
		1.22	-32.59	0.01	0.0	576.0	-639.81	-0.91	-11.09	-7.17e-03	-32.59	1.22
7	37	27.93	25.97	-2.02e-03	0.0	0.0	-516.71	7.17	9.84	-0.01	-30.77	-13.37
		-13.37	-30.77	-0.01	0.0	576.0	-495.11	7.17	9.84	-0.01	25.97	27.93
7	38	32.82	24.93	-2.07e-03	0.0	0.0	-499.21	8.18	9.53	0.04	-29.98	-14.29
		-14.29	-29.98	-0.01	0.0	576.0	-477.61	8.18	9.53	0.04	24.93	32.82
7	39	1.98	7.83	4.02e-04	0.0	0.0	-654.44	-0.79	-3.06	0.02	7.83	1.98
		-2.55	-9.76	2.53e-03	0.0	576.0	-632.84	-0.79	-3.06	0.02	-9.76	-2.55
7	40	21.16	11.00	7.40e-04	0.0	0.0	-573.04	4.11	-4.35	-0.03	11.00	-2.50
		-2.50	-14.06	3.58e-03	0.0	576.0	-551.44	4.11	-4.35	-0.03	-14.06	21.16
7	41	8.00	7.44	-7.74e-04	0.0	0.0	-605.08	2.16	3.11	0.01	-10.47	-4.42
		-4.42	-10.47	-4.46e-03	0.0	576.0	-583.48	2.16	3.11	0.01	7.44	8.00
7	42	31.71	3.14	-8.41e-04	0.0	0.0	-523.68	7.05	1.81	-0.05	-7.30	-8.90
		-8.90	-7.30	-3.41e-03	0.0	576.0	-502.08	7.05	1.81	-0.05	3.14	31.71
7	43	1.89	7.87	4.10e-04	0.0	0.0	-654.09	-0.68	-3.07	0.01	7.87	1.89
		-2.02	-9.79	2.55e-03	0.0	576.0	-632.49	-0.68	-3.07	0.01	-9.79	-2.02
7	44	21.69	11.04	7.49e-04	0.0	0.0	-572.69	4.21	-4.36	-0.05	11.04	-2.59
		-2.59	-14.09	3.59e-03	0.0	576.0	-551.09	4.21	-4.36	-0.05	-14.09	21.69
7	45	7.46	7.47	-7.82e-04	0.0	0.0	-605.43	2.05	3.12	0.03	-10.51	-4.33
		-4.33	-10.51	-4.47e-03	0.0	576.0	-583.83	2.05	3.12	0.03	7.47	7.46
7	46	31.17	3.16	-8.37e-04	0.0	0.0	-524.03	6.94	1.82	-0.03	-7.34	-8.81
		-8.81	-7.34	-3.43e-03	0.0	576.0	-502.43	6.94	1.82	-0.03	3.16	31.17
7	47	1.29	8.10	5.93e-04	0.0	0.0	-642.90	-0.02	-3.18	-0.09	8.10	1.29
		1.16	-10.18	3.49e-03	0.0	576.0	-621.30	-0.02	-3.18	-0.09	-10.18	1.16
7	48	17.45	10.73	5.50e-04	0.0	0.0	-584.58	3.34	-4.23	0.08	10.73	-1.80
		-1.80	-13.65	2.62e-03	0.0	576.0	-562.98	3.34	-4.23	0.08	-13.65	17.45
7	49	11.71	7.02	-6.20e-04	0.0	0.0	-593.54	2.92	2.98	-0.10	-10.20	-5.12
		-5.12	-10.20	-3.50e-03	0.0	576.0	-571.94	2.92	2.98	-0.10	7.02	11.71
7	50	28.00	3.55	-9.18e-04	0.0	0.0	-535.22	6.28	1.93	0.07	-7.56	-8.21
		-8.21	-7.56	-4.37e-03	0.0	576.0	-513.62	6.28	1.93	0.07	3.55	28.00
7	51	1.69	8.14	6.01e-04	0.0	0.0	-642.55	0.09	-3.19	-0.10	8.14	1.20
		1.20	-10.20	3.51e-03	0.0	576.0	-620.95	0.09	-3.19	-0.10	-10.20	1.69
7	52	17.98	10.78	5.58e-04	0.0	0.0	-584.23	3.45	-4.24	0.07	10.78	-1.89
		-1.89	-13.68	2.63e-03	0.0	576.0	-562.63	3.45	-4.24	0.07	-13.68	17.98
7	53	11.17	7.05	-6.21e-04	0.0	0.0	-593.89	2.81	3.00	-0.09	-10.24	-5.03
		-5.03	-10.24	-3.51e-03	0.0	576.0	-572.29	2.81	3.00	-0.09	7.05	11.17
7	54	27.46	3.58	-9.15e-04	0.0	0.0	-535.57	6.17	1.95	0.08	-7.61	-8.11
		-8.11	-7.61	-4.39e-03	0.0	576.0	-513.97	6.17	1.95	0.08	3.58	27.46
7	55	13.16	0.24	-2.57e-04	0.0	0.0	-546.38	2.83	-0.57	-9.42e-03	0.24	-3.13
		-3.13	-3.02	-4.02e-04	0.0	576.0	-524.78	2.83	-0.57	-9.42e-03	-3.02	13.16
7	56	14.58	0.27	-2.85e-04	0.0	0.0	-589.06	3.13	-0.62	-0.01	0.27	-3.46
		-3.46	-3.31	-4.40e-04	0.0	576.0	-567.46	3.13	-0.62	-0.01	-3.31	14.58
8	1	121.69	15.97	-6.00e-04	0.0	0.0	-1277.41	22.07	3.74	-0.11	-5.55	-5.42
		-5.42	-5.55	-5.44e-04	0.0	576.0	-1224.99	22.07	3.74	-0.11	15.97	121.69
8	2	121.72	16.10	-6.00e-04	0.0	0.0	-1290.39	22.07	3.77	-0.11	-5.59	-5.42
		-5.42	-5.59	-5.48e-04	0.0	576.0	-1237.97	22.07	3.77	-0.11	16.10	121.72
8	3	158.91	21.69	-7.85e-04	0.0	0.0	-1601.54	28.82	5.07	-0.15	-7.52	-7.09
		-7.09	-7.52	-7.36e-04	0.0	576.0	-1549.12	28.82	5.07	-0.15	21.69	158.91
8	4	158.94	21.82	-7.85e-04	0.0	0.0	-1614.52	28.83	5.10	-0.15	-7.56	-7.09
		-7.09	-7.56	-7.40e-04	0.0	576.0	-1562.11	28.83	5.10	-0.15	21.82	158.94
8	5	69.94	9.65	-3.47e-04	0.0	0.0	-841.01	12.69	2.26	-0.06	-3.38	-3.15
		-3.15	-3.38	-3.33e-04	0.0	576.0	-800.69	12.69	2.26	-0.06	9.65	69.94
8	6	69.97	9.78	-3.47e-04	0.0	0.0	-854.00	12.70	2.29	-0.07	-3.42	-3.15
		-3.15	-3.42	-3.37e-04	0.0	576.0	-813.68	12.70	2.29	-0.07	9.78	69.97
8	7	107.17	15.37	-5.32e-04	0.0	0.0	-1165.14	19.44	3.60	-0.10	-5.35	-4.82
		-4.82	-5.35	-5.25e-04	0.0	576.0	-1124.82	19.44	3.60	-0.10	15.37	107.17
8	8	107.20	15.50	-5.32e-04	0.0	0.0	-1178.13	19.45	3.63	-0.10	-5.39	-4.82
		-4.82	-5.39	-5.29e-04	0.0	576.0	-1137.81	19.45	3.63	-0.10	15.50	107.20
8	9	121.75	16.23	-6.00e-04	0.0	0.0	-1303.38	22.08	3.80	-0.11	-5.64	-5.42
		-5.42	-5.64	-5.52e-04	0.0	576.0	-1250.96	22.08	3.80	-0.11	16.23	121.75
8	10	147.74	19.97	-7.29e-04	0.0	0.0	-1504.30	26.79	4.67	-0.14	-6.93	-6.59
		-6.59	-6.93	-6.79e-04	0.0	576.0	-1451.88	26.79	4.67	-0.14	19.97	147.74
8	11	147.80	20.23	-7.29e-04	0.0	0.0	-1530.27	26.80	4.73	-0.14	-7.02	-6.59
		-6.59	-7.02	-6.87e-04	0.0	576.0	-1477.85	26.80	4.73	-0.14	20.23	147.80
8	12	70.01	9.91	-3.47e-04	0.0	0.0	-866.98	12.70	2.32	-0.07	-3.47	-3.15
		-3.15	-3.47	-3.41e-04	0.0	576.0	-826.66	12.70	2.32	-0.07	9.91	70.01
8	13	96.00	13.65	-4.76e-04	0.0	0.0	-1067.91	17.42	3.20	-0.09	-4.76	-4.32
		-4.32	-4.76	-4.67e-04	0.0	576.0	-1027.59	17.42	3.20	-0.09	13.65	96.00
8	14	96.06	13.91	-4.77e-04	0.0	0.0	-1093.88	17.43	3.26	-0.09	-4.85	-4.32
		-4.32	-4.85	-4.75e-04	0.0	576.0	-1053.56	17.43	3.26	-0.09	13.91	96.06
8	15	118.66	15.76	-5.88e-04	0.0	0.0	-1299.71	21.52	3.70	-0.10	-5.53	-5.32
		-5.32	-5.53	-5.44e-04	0.0	576.0	-1247.30	21.52	3.70	-0.10	15.76	118.66
8	16	118.69	15.89	-5.88e-04	0.0	0.0	-1312.70	21.53	3.73	-0.10	-5.57	-5.32

		-5.32	-5.57	-5.48e-04	0.0	576.0	-1260.28	21.53	3.73	-0.10	15.89	118.69
8	17	144.71	19.77	-7.17e-04	0.0	0.0	-1526.61	26.25	4.63	-0.13	-6.91	-6.49
		-6.49	-6.91	-6.79e-04	0.0	576.0	-1474.19	26.25	4.63	-0.13	19.77	144.71
8	18	144.74	19.89	-7.17e-04	0.0	0.0	-1539.59	26.26	4.66	-0.13	-6.95	-6.49
		-6.49	-6.95	-6.83e-04	0.0	576.0	-1487.17	26.26	4.66	-0.13	19.89	144.74
8	19	66.92	9.44	-3.35e-04	0.0	0.0	-863.32	12.15	2.22	-0.05	-3.36	-3.06
		-3.06	-3.36	-3.33e-04	0.0	576.0	-823.00	12.15	2.22	-0.05	9.44	66.92
8	20	66.95	9.57	-3.35e-04	0.0	0.0	-876.31	12.15	2.25	-0.05	-3.40	-3.06
		-3.06	-3.40	-3.37e-04	0.0	576.0	-835.99	12.15	2.25	-0.05	9.57	66.95
8	21	92.97	13.45	-4.64e-04	0.0	0.0	-1090.21	16.88	3.16	-0.08	-4.74	-4.23
		-4.23	-4.74	-4.67e-04	0.0	576.0	-1049.89	16.88	3.16	-0.08	13.45	92.97
8	22	93.00	13.57	-4.64e-04	0.0	0.0	-1103.20	16.88	3.19	-0.08	-4.78	-4.23
		-4.23	-4.78	-4.71e-04	0.0	576.0	-1062.88	16.88	3.19	-0.08	13.57	93.00
8	23	101.07	76.98	-4.96e-04	0.0	0.0	-877.54	18.32	-31.88	-0.42	76.98	-4.46
		-4.46	-106.74	0.01	0.0	576.0	-837.22	18.32	-31.88	-0.42	-106.74	101.07
8	24	106.85	74.97	-5.19e-04	0.0	0.0	-833.04	19.36	-30.97	-0.45	74.97	-4.66
		-4.66	-103.47	0.01	0.0	576.0	-792.72	19.36	-30.97	-0.45	-103.47	106.85
8	25	96.20	130.13	-4.77e-04	0.0	0.0	-1170.56	17.45	37.19	0.24	-84.11	-4.30
		-4.30	-84.11	-0.01	0.0	576.0	-1130.24	17.45	37.19	0.24	130.13	96.20
8	26	101.98	133.40	-5.01e-04	0.0	0.0	-1126.05	18.49	38.09	0.21	-86.13	-4.50
		-4.50	-86.13	-0.01	0.0	576.0	-1085.73	18.49	38.09	0.21	133.40	101.98
8	27	100.79	75.03	-4.97e-04	0.0	0.0	-877.32	18.28	-30.88	-0.47	75.03	-4.48
		-4.48	-102.76	0.01	0.0	576.0	-837.00	18.28	-30.88	-0.47	-102.76	100.79
8	28	107.13	76.91	-5.18e-04	0.0	0.0	-833.26	19.40	-31.97	-0.40	76.91	-4.64
		-4.64	-107.45	0.01	0.0	576.0	-792.94	19.40	-31.97	-0.40	-107.45	107.13
8	29	95.92	134.11	-4.78e-04	0.0	0.0	-1170.33	17.41	38.19	0.19	-86.06	-4.32
		-4.32	-86.06	-0.01	0.0	576.0	-1130.01	17.41	38.19	0.19	134.11	95.92
8	30	102.26	129.42	-5.00e-04	0.0	0.0	-1126.28	18.53	37.10	0.26	-84.18	-4.48
		-4.48	-84.18	-0.01	0.0	576.0	-1085.96	18.53	37.10	0.26	129.42	102.26
8	31	100.24	77.04	-4.96e-04	0.0	0.0	-883.20	18.18	-31.65	-0.47	77.04	-4.47
		-4.47	-105.37	0.01	0.0	576.0	-842.88	18.18	-31.65	-0.47	-105.37	100.24
8	32	106.03	75.02	-5.20e-04	0.0	0.0	-838.69	19.22	-30.75	-0.50	75.02	-4.67
		-4.67	-102.10	0.01	0.0	576.0	-798.37	19.22	-30.75	-0.50	-102.10	106.03
8	33	97.03	128.76	-4.76e-04	0.0	0.0	-1164.90	17.59	36.96	0.28	-84.16	-4.29
		-4.29	-84.16	-0.01	0.0	576.0	-1124.58	17.59	36.96	0.28	128.76	97.03
8	34	102.81	132.03	-5.00e-04	0.0	0.0	-1120.39	18.63	37.87	0.25	-86.18	-4.49
		-4.49	-86.18	-0.01	0.0	576.0	-1080.07	18.63	37.87	0.25	132.03	102.81
8	35	99.97	75.09	-4.98e-04	0.0	0.0	-882.97	18.14	-30.65	-0.52	75.09	-4.49
		-4.49	-101.39	0.01	0.0	576.0	-842.65	18.14	-30.65	-0.52	-101.39	99.97
8	36	106.31	76.97	-5.19e-04	0.0	0.0	-838.92	19.26	-31.74	-0.45	76.97	-4.65
		-4.65	-106.08	0.01	0.0	576.0	-798.60	19.26	-31.74	-0.45	-106.08	106.31
8	37	96.75	132.74	-4.78e-04	0.0	0.0	-1164.67	17.55	37.96	0.23	-86.11	-4.31
		-4.31	-86.11	-0.01	0.0	576.0	-1124.35	17.55	37.96	0.23	132.74	96.75
8	38	103.09	128.05	-4.99e-04	0.0	0.0	-1120.62	18.67	36.87	0.30	-84.23	-4.47
		-4.47	-84.23	-0.01	0.0	576.0	-1080.30	18.67	36.87	0.30	128.05	103.09
8	39	92.62	22.96	-4.61e-04	0.0	0.0	-1032.02	16.80	-8.76	-0.16	22.96	-4.17
		-4.17	-27.66	2.48e-03	0.0	576.0	-991.70	16.80	-8.76	-0.16	-27.66	92.62
8	40	111.90	16.23	-5.40e-04	0.0	0.0	-883.66	20.27	-5.75	-0.25	16.23	-4.84
		-4.84	-16.75	3.61e-03	0.0	576.0	-843.34	20.27	-5.75	-0.25	-16.75	111.90
8	41	91.16	43.41	-4.56e-04	0.0	0.0	-1119.93	16.54	11.96	0.04	-25.37	-4.12
		-4.12	-25.37	-4.34e-03	0.0	576.0	-1079.61	16.54	11.96	0.04	43.41	91.16
8	42	110.44	54.31	-5.35e-04	0.0	0.0	-971.57	20.00	14.97	-0.06	-32.10	-4.79
		-4.79	-32.10	-3.21e-03	0.0	576.0	-931.25	20.00	14.97	-0.06	54.31	110.44
8	43	92.37	22.97	-4.62e-04	0.0	0.0	-1033.72	16.76	-8.69	-0.17	22.97	-4.17
		-4.17	-27.24	2.50e-03	0.0	576.0	-993.40	16.76	-8.69	-0.17	-27.24	92.37
8	44	111.65	16.24	-5.41e-04	0.0	0.0	-885.36	20.22	-5.68	-0.27	16.24	-4.84
		-4.84	-16.34	3.63e-03	0.0	576.0	-845.04	20.22	-5.68	-0.27	-16.34	111.65
8	45	91.41	42.99	-4.56e-04	0.0	0.0	-1118.23	16.59	11.89	0.05	-25.39	-4.12
		-4.12	-25.39	-4.36e-03	0.0	576.0	-1077.91	16.59	11.89	0.05	42.99	91.41
8	46	110.68	53.90	-5.35e-04	0.0	0.0	-969.87	20.05	14.91	-0.04	-32.12	-4.79
		-4.79	-32.12	-3.23e-03	0.0	576.0	-929.55	20.05	14.91	-0.04	53.90	110.68
8	47	91.69	16.46	-4.65e-04	0.0	0.0	-1031.26	16.66	-5.44	-0.32	16.46	-4.24
		-4.24	-14.39	3.55e-03	0.0	576.0	-990.94	16.66	-5.44	-0.32	-14.39	91.69
8	48	112.83	22.72	-5.36e-04	0.0	0.0	-884.42	20.41	-9.07	-0.09	22.72	-4.77
		-4.77	-30.02	2.54e-03	0.0	576.0	-844.10	20.41	-9.07	-0.09	-30.02	112.83
8	49	90.23	56.67	-4.60e-04	0.0	0.0	-1119.17	16.40	15.28	-0.12	-31.87	-4.19
		-4.19	-31.87	-3.27e-03	0.0	576.0	-1078.85	16.40	15.28	-0.12	56.67	90.23
8	50	111.36	41.04	-5.31e-04	0.0	0.0	-972.33	20.15	11.65	0.11	-25.60	-4.72
		-4.72	-25.60	-4.29e-03	0.0	576.0	-932.01	20.15	11.65	0.11	41.04	111.36
8	51	91.44	16.48	-4.66e-04	0.0	0.0	-1032.96	16.62	-5.37	-0.34	16.48	-4.24
		-4.24	-13.98	3.58e-03	0.0	576.0	-992.64	16.62	-5.37	-0.34	-13.98	91.44
8	52	112.58	22.74	-5.37e-04	0.0	0.0	-886.12	20.37	-9.00	-0.11	22.74	-4.77
		-4.77	-29.61	2.56e-03	0.0	576.0	-845.80	20.37	-9.00	-0.11	-29.61	112.58
8	53	90.48	56.26	-4.60e-04	0.0	0.0	-1117.47	16.44	15.21	-0.11	-31.88	-4.18
		-4.18	-31.88	-3.29e-03	0.0	576.0	-1077.15	16.44	15.21	-0.11	56.26	90.48
8	54	111.61	40.63	-5.31e-04	0.0	0.0	-970.63	20.19	11.59	0.12	-25.62	-4.72
		-4.72	-25.62	-4.31e-03	0.0	576.0	-930.31	20.19	11.59	0.12	40.63	111.61
8	55	94.08	12.18	-4.61e-04	0.0	0.0	-936.97	17.05	2.84	-0.10	-4.18	-4.14
		-4.14	-4.18	-4.07e-04	0.0	576.0	-896.65	17.05	2.84	-0.10	12.18	94.08
8	56	101.53	13.33	-4.98e-04	0.0	0.0	-1001.80	18.40	3.11	-0.11	-4.57	-4.48
		-4.48	-4.57	-4.45e-04	0.0	576.0	-961.48	18.40	3.11	-0.11	13.33	101.53
9	1	184.37	14.08	-9.01e-04	0.0	0.0	-1648.57	33.39	3.34	-0.08	-5.18	-7.97
		-7.97	-5.18	-5.22e-04	0.0	576.0	-1596.15	33.39	3.34	-0.08	14.08	184.37
9	2	184.44	14.23	-9.01e-04	0.0	0.0	-1664.99	33.40	3.38	-0.08	-5.23	-7.97
		-7.97	-5.23	-5.27e-04	0.0	576.0	-1612.58	33.40	3.38	-0.08	14.23	184.44
9	3	254.99	19.61	-1.25e-03	0.0	0.0	-2121.10	46.18	4.64	-0.11	-7.11	-11.01
		-11.01	-7.11	-7.13e-04	0.0	576.0	-2068.68	46.18	4.64	-0.11	19.61	254.99
9	4	255.06	19.75	-1.25e-03	0.0	0.0	-2137.53	46.19	4.67	-0.11	-7.16	-11.01
		-11.01	-7.16	-7.17e-04	0.0	576.0	-2085.11	46.19	4.67	-0.11	19.75	255.06
9	5	98.07	8.26	-4.83e-04	0.0	0.0	-1060.22	17.77	1.97	-0.05	-3.11	-4.30
		-4.30	-3.11	-3.18e-04	0.0	576.0	-1019.90	17.77	1.97	-0.05	8.26	98.07
9	6	98.14	8.41	-4.83e-04	0.0	0.0	-1076.65	17.78	2.01	-0.05	-3.16	-4.30
		-4.30	-3.16	-3.22e-04	0.0	576.0	-1036.33	17.78	2.01	-0.05	8.41	98.14
9	7	168.69	13.79	-8.27e-04	0.0	0.0	-1532.76	30.56	3.27	-0.08	-5.04	-7.34
		-7.34	-5.04	-5.07e-04	0.0	576.0	-1492.44	30.56	3.27	-0.08	13.79	168.69
9	8	168.76	13.94	-8.28e-04	0.0	0.0	-1549.19	30.57	3.30	-0.08	-5.09	-7.34

		-7.34	-5.09	-5.11e-04	0.0	576.0	-1508.87	30.57	3.30	-0.08	13.94	168.76
9	9	184.51	14.37	-9.02e-04	0.0	0.0	-1681.42	33.42	3.41	-0.08	-5.27	-7.97
		-7.97	-5.27	-5.31e-04	0.0	576.0	-1629.01	33.42	3.41	-0.08	14.37	184.51
9	10	233.80	17.95	-1.14e-03	0.0	0.0	-1979.34	42.34	4.25	-0.10	-6.53	-10.10
		-10.10	-6.53	-6.56e-04	0.0	576.0	-1926.92	42.34	4.25	-0.10	17.95	233.80
9	11	233.94	18.24	-1.14e-03	0.0	0.0	-2012.20	42.37	4.32	-0.10	-6.62	-10.10
		-10.10	-6.62	-6.64e-04	0.0	576.0	-1959.78	42.37	4.32	-0.10	18.24	233.94
9	12	98.21	8.56	-4.83e-04	0.0	0.0	-1093.08	17.80	2.04	-0.05	-3.20	-4.30
		-4.30	-3.20	-3.26e-04	0.0	576.0	-1052.76	17.80	2.04	-0.05	8.56	98.21
9	13	147.51	12.13	-7.24e-04	0.0	0.0	-1391.00	26.72	2.88	-0.07	-4.46	-6.43
		-6.43	-4.46	-4.50e-04	0.0	576.0	-1350.68	26.72	2.88	-0.07	12.13	147.51
9	14	147.65	12.43	-7.25e-04	0.0	0.0	-1423.85	26.75	2.95	-0.07	-4.56	-6.43
		-6.43	-4.56	-4.58e-04	0.0	576.0	-1383.53	26.75	2.95	-0.07	12.43	147.65
9	15	181.03	13.93	-8.87e-04	0.0	0.0	-1673.37	32.80	3.32	-0.08	-5.17	-7.87
		-7.87	-5.17	-5.23e-04	0.0	576.0	-1620.95	32.80	3.32	-0.08	13.93	181.03
9	16	181.10	14.07	-8.88e-04	0.0	0.0	-1689.80	32.81	3.35	-0.08	-5.22	-7.87
		-7.87	-5.22	-5.27e-04	0.0	576.0	-1637.38	32.81	3.35	-0.08	14.07	181.10
9	17	230.47	17.80	-1.13e-03	0.0	0.0	-2004.14	41.75	4.22	-0.10	-6.52	-10.00
		-10.00	-6.52	-6.56e-04	0.0	576.0	-1951.73	41.75	4.22	-0.10	17.80	230.47
9	18	230.54	17.94	-1.13e-03	0.0	0.0	-2020.57	41.76	4.26	-0.10	-6.57	-10.00
		-10.00	-6.57	-6.61e-04	0.0	576.0	-1968.15	41.76	4.26	-0.10	17.94	230.54
9	19	94.73	8.11	-4.69e-04	0.0	0.0	-1085.03	17.18	1.95	-0.04	-3.10	-4.20
		-4.20	-3.10	-3.20e-04	0.0	576.0	-1044.71	17.18	1.95	-0.04	8.11	94.73
9	20	94.81	8.26	-4.70e-04	0.0	0.0	-1101.46	17.19	1.98	-0.04	-3.15	-4.20
		-4.20	-3.15	-3.24e-04	0.0	576.0	-1061.14	17.19	1.98	-0.04	8.26	94.81
9	21	144.17	11.98	-7.11e-04	0.0	0.0	-1415.80	26.13	2.85	-0.06	-4.45	-6.33
		-6.33	-4.45	-4.51e-04	0.0	576.0	-1375.48	26.13	2.85	-0.06	11.98	144.17
9	22	144.24	12.13	-7.11e-04	0.0	0.0	-1432.23	26.14	2.89	-0.07	-4.50	-6.33
		-6.33	-4.50	-4.55e-04	0.0	576.0	-1391.91	26.14	2.89	-0.07	12.13	144.24
9	23	146.10	84.22	-7.13e-04	0.0	0.0	-1301.83	26.46	-39.93	-0.14	84.22	-6.30
		-6.30	-145.79	0.01	0.0	576.0	-1261.51	26.46	-39.93	-0.14	-145.79	146.10
9	24	152.58	82.04	-7.40e-04	0.0	0.0	-1253.19	27.62	-38.86	-0.16	82.04	-6.51
		-6.51	-141.79	0.01	0.0	576.0	-1212.87	27.62	-38.86	-0.16	-141.79	152.58
9	25	155.64	165.34	-7.60e-04	0.0	0.0	-1357.11	28.19	44.43	0.03	-90.58	-6.71
		-6.71	-90.58	-0.01	0.0	576.0	-1316.79	28.19	44.43	0.03	165.34	155.64
9	26	162.12	169.34	-7.87e-04	0.0	0.0	-1308.46	29.35	45.50	6.14e-03	-92.76	-6.92
		-6.92	-92.76	-0.01	0.0	576.0	-1268.14	29.35	45.50	6.14e-03	169.34	162.12
9	27	146.02	84.12	-7.14e-04	0.0	0.0	-1302.40	26.45	-38.84	-0.17	84.12	-6.31
		-6.31	-141.54	0.01	0.0	576.0	-1262.08	26.45	-38.84	-0.17	-141.54	146.02
9	28	152.66	82.14	-7.40e-04	0.0	0.0	-1252.62	27.63	-39.94	-0.13	82.14	-6.50
		-6.50	-146.04	0.01	0.0	576.0	-1212.30	27.63	-39.94	-0.13	-146.04	152.66
9	29	155.56	169.59	-7.60e-04	0.0	0.0	-1357.68	28.17	45.51	-3.39e-03	-90.68	-6.71
		-6.71	-90.68	-0.01	0.0	576.0	-1317.36	28.17	45.51	-3.39e-03	169.59	155.56
9	30	162.20	165.09	-7.87e-04	0.0	0.0	-1307.90	29.36	44.41	0.03	-92.65	-6.91
		-6.91	-92.65	-0.01	0.0	576.0	-1267.58	29.36	44.41	0.03	165.09	162.20
9	31	145.02	84.39	-7.10e-04	0.0	0.0	-1308.26	26.27	-39.82	-0.17	84.39	-6.28
		-6.28	-145.04	0.01	0.0	576.0	-1267.94	26.27	-39.82	-0.17	-145.04	145.02
9	32	151.50	82.21	-7.37e-04	0.0	0.0	-1259.61	27.43	-38.76	-0.19	82.21	-6.49
		-6.49	-141.04	0.01	0.0	576.0	-1219.29	27.43	-38.76	-0.19	-141.04	151.50
9	33	156.72	164.59	-7.64e-04	0.0	0.0	-1350.69	28.38	44.33	0.05	-90.75	-6.73
		-6.73	-90.75	-0.01	0.0	576.0	-1310.37	28.38	44.33	0.05	164.59	156.72
9	34	163.20	168.59	-7.90e-04	0.0	0.0	-1302.04	29.54	45.40	0.03	-92.93	-6.94
		-6.94	-92.93	-0.01	0.0	576.0	-1261.72	29.54	45.40	0.03	168.59	163.20
9	35	144.94	84.29	-7.10e-04	0.0	0.0	-1308.82	26.25	-38.74	-0.20	84.29	-6.28
		-6.28	-140.79	0.01	0.0	576.0	-1268.50	26.25	-38.74	-0.20	-140.79	144.94
9	36	151.58	82.31	-7.36e-04	0.0	0.0	-1259.04	27.44	-39.84	-0.16	82.31	-6.48
		-6.48	-145.29	0.01	0.0	576.0	-1218.72	27.44	-39.84	-0.16	-145.29	151.58
9	37	156.64	168.84	-7.64e-04	0.0	0.0	-1351.26	28.36	45.41	0.02	-90.85	-6.74
		-6.74	-90.85	-0.01	0.0	576.0	-1310.94	28.36	45.41	0.02	168.84	156.64
9	38	163.28	164.34	-7.90e-04	0.0	0.0	-1301.48	29.55	44.31	0.06	-92.82	-6.93
		-6.93	-92.82	-0.01	0.0	576.0	-1261.16	29.55	44.31	0.06	164.34	163.28
9	39	141.87	25.59	-6.98e-04	0.0	0.0	-1377.94	25.71	-11.65	-0.06	25.59	-6.20
		-6.20	-41.55	2.42e-03	0.0	576.0	-1337.62	25.71	-11.65	-0.06	-41.55	141.87
9	40	163.49	18.32	-7.88e-04	0.0	0.0	-1215.78	29.58	-8.09	-0.13	18.32	-6.90
		-6.90	-28.23	3.57e-03	0.0	576.0	-1175.46	29.58	-8.09	-0.13	-28.23	163.49
9	41	144.73	51.78	-7.12e-04	0.0	0.0	-1394.52	26.23	13.66	-0.01	-26.85	-6.32
		-6.32	-26.85	-4.31e-03	0.0	576.0	-1354.20	26.23	13.66	-0.01	51.78	144.73
9	42	166.35	65.11	-8.02e-04	0.0	0.0	-1232.36	30.10	17.22	-0.07	-34.12	-7.02
		-7.02	-34.12	-3.25e-03	0.0	576.0	-1192.04	30.10	17.22	-0.07	65.11	166.35
9	43	141.55	25.64	-6.97e-04	0.0	0.0	-1379.87	25.65	-11.62	-0.07	25.64	-6.19
		-6.19	-41.33	2.44e-03	0.0	576.0	-1339.55	25.65	-11.62	-0.07	-41.33	141.55
9	44	163.16	18.37	-7.87e-04	0.0	0.0	-1217.70	29.52	-8.06	-0.13	18.37	-6.89
		-6.89	-28.01	3.59e-03	0.0	576.0	-1177.38	29.52	-8.06	-0.13	-28.01	163.16
9	45	145.06	51.56	-7.14e-04	0.0	0.0	-1392.60	26.28	13.63	-4.08e-03	-26.90	-6.33
		-6.33	-26.90	-4.33e-03	0.0	576.0	-1352.28	26.28	13.63	-4.08e-03	51.56	145.06
9	46	166.67	64.88	-8.03e-04	0.0	0.0	-1230.43	30.16	17.19	-0.07	-34.17	-7.03
		-7.03	-34.17	-3.27e-03	0.0	576.0	-1190.11	30.16	17.19	-0.07	64.88	166.67
9	47	141.61	25.25	-7.00e-04	0.0	0.0	-1379.83	25.67	-8.04	-0.16	25.25	-6.22
		-6.22	-27.39	3.51e-03	0.0	576.0	-1339.51	25.67	-8.04	-0.16	-27.39	141.61
9	48	163.75	18.66	-7.87e-04	0.0	0.0	-1213.88	29.62	-11.69	-0.03	18.66	-6.88
		-6.88	-42.40	2.51e-03	0.0	576.0	-1173.56	29.62	-11.69	-0.03	-42.40	163.75
9	49	144.47	65.95	-7.14e-04	0.0	0.0	-1396.42	26.18	17.26	-0.11	-27.19	-6.34
		-6.34	-27.19	-3.35e-03	0.0	576.0	-1356.10	26.18	17.26	-0.11	65.95	144.47
9	50	166.61	50.94	-8.01e-04	0.0	0.0	-1230.47	30.14	13.61	0.02	-33.78	-7.00
		-7.00	-33.78	-4.25e-03	0.0	576.0	-1190.15	30.14	13.61	0.02	50.94	166.61
9	51	141.29	25.30	-6.98e-04	0.0	0.0	-1381.76	25.61	-8.01	-0.16	25.30	-6.21
		-6.21	-27.16	3.53e-03	0.0	576.0	-1341.44	25.61	-8.01	-0.16	-27.16	141.29
9	52	163.42	18.71	-7.86e-04	0.0	0.0	-1215.81	29.56	-11.66	-0.04	18.71	-6.87
		-6.87	-42.18	2.52e-03	0.0	576.0	-1175.49	29.56	-11.66	-0.04	-42.18	163.42
9	53	144.80	65.73	-7.15e-04	0.0	0.0	-1394.49	26.24	17.23	-0.10	-27.24	-6.35
		-6.35	-27.24	-3.37e-03	0.0	576.0	-1354.17	26.24	17.23	-0.10	65.73	144.80
9	54	166.93	50.71	-8.02e-04	0.0	0.0	-1228.54	30.20	13.58	0.03	-33.83	-7.00
		-7.00	-33.83	-4.27e-03	0.0	576.0	-1188.22	30.20	13.58	0.03	50.71	166.93
9	55	139.98	10.67	-6.81e-04	0.0	0.0	-1210.64	25.34	2.53	-0.06	-3.88	-6.00
		-6.00	-3.88	-3.89e-04	0.0	576.0	-1170.32	25.34	2.53	-0.06	10.67	139.98
9	56	154.11	11.78	-7.50e-04	0.0	0.0	-1305.15	27.90	2.79	-0.07	-4.27	-6.61

		-6.61	-4.27	-4.27e-04	0.0	576.0	-1264.83	27.90	2.79	-0.07	11.78	154.11
10	1	184.21	4.26	-9.01e-04	0.0	0.0	-1707.64	33.36	1.32	-0.04	-3.34	-7.97
		-7.97	-3.34	-4.99e-04	0.0	576.0	-1655.22	33.36	1.32	-0.04	4.26	184.21
10	2	184.27	4.30	-9.01e-04	0.0	0.0	-1724.98	33.38	1.33	-0.04	-3.37	-7.97
		-7.97	-3.37	-5.02e-04	0.0	576.0	-1672.57	33.38	1.33	-0.04	4.30	184.27
10	3	254.76	5.94	-1.25e-03	0.0	0.0	-2204.87	46.14	1.82	-0.05	-4.55	-11.01
		-11.01	-4.55	-6.73e-04	0.0	576.0	-2152.45	46.14	1.82	-0.05	5.94	254.76
10	4	254.82	5.98	-1.25e-03	0.0	0.0	-2222.21	46.15	1.83	-0.05	-4.57	-11.02
		-11.02	-4.57	-6.77e-04	0.0	576.0	-2169.80	46.15	1.83	-0.05	5.98	254.82
10	5	97.85	2.44	-4.82e-04	0.0	0.0	-1094.66	17.73	0.77	-0.02	-2.02	-4.29
		-4.29	-2.02	-3.08e-04	0.0	576.0	-1054.34	17.73	0.77	-0.02	2.44	97.85
10	6	97.91	2.48	-4.82e-04	0.0	0.0	-1112.01	17.74	0.79	-0.02	-2.05	-4.30
		-4.30	-2.05	-3.11e-04	0.0	576.0	-1071.69	17.74	0.79	-0.02	2.48	97.91
10	7	168.40	4.11	-8.27e-04	0.0	0.0	-1591.89	30.51	1.27	-0.04	-3.23	-7.34
		-7.34	-3.23	-4.82e-04	0.0	576.0	-1551.57	30.51	1.27	-0.04	4.11	168.40
10	8	168.46	4.15	-8.27e-04	0.0	0.0	-1609.24	30.52	1.29	-0.04	-3.26	-7.34
		-7.34	-3.26	-4.86e-04	0.0	576.0	-1568.92	30.52	1.29	-0.04	4.15	168.46
10	9	184.33	4.34	-9.01e-04	0.0	0.0	-1742.33	33.39	1.34	-0.04	-3.39	-7.97
		-7.97	-3.39	-5.06e-04	0.0	576.0	-1689.91	33.39	1.34	-0.04	4.34	184.33
10	10	233.59	5.43	-1.14e-03	0.0	0.0	-2055.70	42.31	1.67	-0.05	-4.19	-10.10
		-10.10	-4.19	-6.21e-04	0.0	576.0	-2003.28	42.31	1.67	-0.05	5.43	233.59
10	11	233.72	5.51	-1.14e-03	0.0	0.0	-2090.39	42.33	1.69	-0.05	-4.24	-10.10
		-10.10	-4.24	-6.28e-04	0.0	576.0	-2037.97	42.33	1.69	-0.05	5.51	233.72
10	12	97.97	2.52	-4.83e-04	0.0	0.0	-1129.35	17.76	0.80	-0.02	-2.07	-4.30
		-4.30	-2.07	-3.15e-04	0.0	576.0	-1089.03	17.76	0.80	-0.02	2.52	97.97
10	13	147.23	3.61	-7.23e-04	0.0	0.0	-1442.72	26.68	1.12	-0.03	-2.87	-6.43
		-6.43	-2.87	-4.30e-04	0.0	576.0	-1402.40	26.68	1.12	-0.03	3.61	147.23
10	14	147.36	3.69	-7.24e-04	0.0	0.0	-1477.41	26.70	1.15	-0.03	-2.92	-6.43
		-6.43	-2.92	-4.37e-04	0.0	576.0	-1437.09	26.70	1.15	-0.03	3.69	147.36
10	15	180.77	4.03	-8.87e-04	0.0	0.0	-1732.84	32.75	1.28	-0.03	-3.32	-7.87
		-7.87	-3.32	-5.04e-04	0.0	576.0	-1680.43	32.75	1.28	-0.03	4.03	180.77
10	16	180.84	4.07	-8.87e-04	0.0	0.0	-1750.19	32.76	1.29	-0.03	-3.34	-7.87
		-7.87	-3.34	-5.07e-04	0.0	576.0	-1697.77	32.76	1.29	-0.03	4.07	180.84
10	17	230.16	5.20	-1.13e-03	0.0	0.0	-2080.90	41.69	1.63	-0.04	-4.16	-10.00
		-10.00	-4.16	-6.26e-04	0.0	576.0	-2028.49	41.69	1.63	-0.04	5.20	230.16
10	18	230.22	5.24	-1.13e-03	0.0	0.0	-2098.25	41.71	1.64	-0.04	-4.19	-10.00
		-10.00	-4.19	-6.29e-04	0.0	576.0	-2045.83	41.71	1.64	-0.04	5.24	230.22
10	19	94.41	2.20	-4.68e-04	0.0	0.0	-1119.86	17.12	0.73	-0.02	-2.00	-4.20
		-4.20	-2.00	-3.13e-04	0.0	576.0	-1079.54	17.12	0.73	-0.02	2.20	94.41
10	20	94.47	2.24	-4.69e-04	0.0	0.0	-1137.21	17.13	0.74	-0.02	-2.02	-4.20
		-4.20	-2.02	-3.16e-04	0.0	576.0	-1096.89	17.13	0.74	-0.02	2.24	94.47
10	21	143.80	3.38	-7.10e-04	0.0	0.0	-1467.93	26.06	1.08	-0.03	-2.84	-6.33
		-6.33	-2.84	-4.35e-04	0.0	576.0	-1427.61	26.06	1.08	-0.03	3.38	143.80
10	22	143.86	3.42	-7.10e-04	0.0	0.0	-1485.27	26.07	1.09	-0.03	-2.87	-6.33
		-6.33	-2.87	-4.38e-04	0.0	576.0	-1444.95	26.07	1.09	-0.03	3.42	143.86
10	23	150.93	85.69	-7.37e-04	0.0	0.0	-1369.85	27.33	-41.52	-0.10	85.69	-6.51
		-6.51	-153.51	0.01	0.0	576.0	-1329.53	27.33	-41.52	-0.10	-153.51	150.93
10	24	157.78	83.54	-7.65e-04	0.0	0.0	-1319.77	28.56	-40.49	-0.12	83.54	-6.73
		-6.73	-149.66	0.01	0.0	576.0	-1279.45	28.56	-40.49	-0.12	-149.66	157.78
10	25	150.38	157.22	-7.35e-04	0.0	0.0	-1387.40	27.24	42.76	0.05	-89.07	-6.50
		-6.50	-89.07	-0.01	0.0	576.0	-1347.08	27.24	42.76	0.05	157.22	150.38
10	26	157.24	161.07	-7.63e-04	0.0	0.0	-1337.31	28.46	43.79	0.03	-91.22	-6.71
		-6.71	-91.22	-0.01	0.0	576.0	-1296.99	28.46	43.79	0.03	161.07	157.24
10	27	151.31	85.59	-7.39e-04	0.0	0.0	-1367.08	27.40	-40.47	-0.12	85.59	-6.52
		-6.52	-149.42	0.01	0.0	576.0	-1326.76	27.40	-40.47	-0.12	-149.42	151.31
10	28	157.40	83.63	-7.64e-04	0.0	0.0	-1322.54	28.49	-41.53	-0.09	83.63	-6.71
		-6.71	-153.74	0.01	0.0	576.0	-1282.22	28.49	-41.53	-0.09	-153.74	157.40
10	29	150.77	161.30	-7.37e-04	0.0	0.0	-1384.63	27.30	43.81	0.02	-89.17	-6.51
		-6.51	-89.17	-0.01	0.0	576.0	-1344.31	27.30	43.81	0.02	161.30	150.77
10	30	156.85	156.98	-7.62e-04	0.0	0.0	-1340.08	28.39	42.75	0.06	-91.13	-6.70
		-6.70	-91.13	-0.01	0.0	576.0	-1299.76	28.39	42.75	0.06	156.98	156.85
10	31	149.88	85.87	-7.32e-04	0.0	0.0	-1370.97	27.15	-41.44	-0.12	85.87	-6.48
		-6.48	-152.84	0.01	0.0	576.0	-1330.65	27.15	-41.44	-0.12	-152.84	149.88
10	32	156.74	83.72	-7.60e-04	0.0	0.0	-1320.88	28.37	-40.40	-0.13	83.72	-6.69
		-6.69	-148.99	0.01	0.0	576.0	-1280.56	28.37	-40.40	-0.13	-148.99	156.74
10	33	151.43	156.55	-7.40e-04	0.0	0.0	-1386.28	27.42	42.67	0.07	-89.25	-6.53
		-6.53	-89.25	-0.01	0.0	576.0	-1345.96	27.42	42.67	0.07	156.55	151.43
10	34	158.28	160.40	-7.68e-04	0.0	0.0	-1336.20	28.65	43.71	0.05	-91.41	-6.74
		-6.74	-91.41	-0.01	0.0	576.0	-1295.88	28.65	43.71	0.05	160.40	158.28
10	35	150.26	85.77	-7.34e-04	0.0	0.0	-1368.20	27.21	-40.39	-0.14	85.77	-6.49
		-6.49	-148.75	0.01	0.0	576.0	-1327.88	27.21	-40.39	-0.14	-148.75	150.26
10	36	156.35	83.82	-7.58e-04	0.0	0.0	-1323.65	28.30	-41.45	-0.11	83.82	-6.68
		-6.68	-153.08	0.01	0.0	576.0	-1283.33	28.30	-41.45	-0.11	-153.08	156.35
10	37	151.81	160.64	-7.42e-04	0.0	0.0	-1383.51	27.49	43.72	0.04	-89.35	-6.54
		-6.54	-89.35	-0.01	0.0	576.0	-1343.19	27.49	43.72	0.04	160.64	151.81
10	38	157.90	156.31	-7.67e-04	0.0	0.0	-1338.97	28.58	42.66	0.07	-91.31	-6.73
		-6.73	-91.31	-0.01	0.0	576.0	-1298.65	28.58	42.66	0.07	156.31	157.90
10	39	142.74	27.03	-7.04e-04	0.0	0.0	-1434.43	25.87	-13.23	-0.03	27.03	-6.26
		-6.26	-49.24	2.45e-03	0.0	576.0	-1394.11	25.87	-13.23	-0.03	-49.24	142.74
10	40	165.59	19.86	-7.97e-04	0.0	0.0	-1267.48	29.96	-9.78	-0.09	19.86	-6.97
		-6.97	-36.41	3.54e-03	0.0	576.0	-1227.16	29.96	-9.78	-0.09	-36.41	165.59
10	41	142.57	43.97	-7.03e-04	0.0	0.0	-1439.69	25.84	12.05	0.02	-25.39	-6.25
		-6.25	-25.39	-4.34e-03	0.0	576.0	-1399.37	25.84	12.05	0.02	43.97	142.57
10	42	165.43	56.80	-7.97e-04	0.0	0.0	-1272.74	29.93	15.50	-0.04	-32.57	-6.97
		-6.97	-32.57	-3.21e-03	0.0	576.0	-1232.42	29.93	15.50	-0.04	56.80	165.43
10	43	142.42	27.09	-7.02e-04	0.0	0.0	-1434.76	25.81	-13.21	-0.03	27.09	-6.25
		-6.25	-49.04	2.46e-03	0.0	576.0	-1394.44	25.81	-13.21	-0.03	-49.04	142.42
10	44	165.28	19.91	-7.96e-04	0.0	0.0	-1267.81	29.90	-9.75	-0.09	19.91	-6.96
		-6.96	-36.21	3.56e-03	0.0	576.0	-1227.49	29.90	-9.75	-0.09	-36.21	165.28
10	45	142.89	43.77	-7.05e-04	0.0	0.0	-1439.36	25.89	12.03	0.02	-25.45	-6.26
		-6.26	-25.45	-4.36e-03	0.0	576.0	-1399.04	25.89	12.03	0.02	43.77	142.89
10	46	165.74	56.60	-7.98e-04	0.0	0.0	-1272.40	29.99	15.48	-0.04	-32.62	-6.98
		-6.98	-32.62	-3.22e-03	0.0	576.0	-1232.08	29.99	15.48	-0.04	56.60	165.74
10	47	144.02	26.71	-7.09e-04	0.0	0.0	-1425.19	26.10	-9.74	-0.11	26.71	-6.30
		-6.30	-35.62	3.38e-03	0.0	576.0	-1384.87	26.10	-9.74	-0.11	-35.62	144.02
10	48	164.31	20.18	-7.92e-04	0.0	0.0	-1276.71	29.73	-13.27	-7.55e-04	20.18	-6.93

		-6.93	-50.03	2.64e-03	0.0	576.0	-1236.39	29.73	-13.27	-7.55e-04	-50.03	164.31
10	49	143.85	57.60	-7.09e-04	0.0	0.0	-1430.46	26.07	15.55	-0.07	-25.72	-6.29
		-6.29	-25.72	-3.39e-03	0.0	576.0	-1390.14	26.07	15.55	-0.07	57.60	143.85
10	50	164.15	43.18	-7.91e-04	0.0	0.0	-1281.97	29.70	12.01	0.04	-32.24	-6.92
		-6.92	-32.24	-4.19e-03	0.0	576.0	-1241.65	29.70	12.01	0.04	43.18	164.15
10	51	143.70	26.76	-7.08e-04	0.0	0.0	-1425.53	26.04	-9.71	-0.12	26.76	-6.29
		-6.29	-35.42	3.40e-03	0.0	576.0	-1385.21	26.04	-9.71	-0.12	-35.42	143.70
10	52	164.00	20.24	-7.90e-04	0.0	0.0	-1277.04	29.67	-13.25	-5.86e-03	20.24	-6.92
		-6.92	-49.83	2.65e-03	0.0	576.0	-1236.72	29.67	-13.25	-5.86e-03	-49.83	164.00
10	53	144.17	57.40	-7.10e-04	0.0	0.0	-1430.12	26.12	15.52	-0.06	-25.77	-6.30
		-6.30	-25.77	-3.41e-03	0.0	576.0	-1389.80	26.12	15.52	-0.06	57.40	144.17
10	54	164.46	42.98	-7.93e-04	0.0	0.0	-1281.64	29.76	11.98	0.05	-32.30	-6.94
		-6.94	-32.30	-4.21e-03	0.0	576.0	-1241.32	29.76	11.98	0.05	42.98	164.46
10	55	139.97	3.45	-6.81e-04	0.0	0.0	-1254.14	25.34	1.04	-0.03	-2.53	-6.00
		-6.00	-2.53	-3.68e-04	0.0	576.0	-1213.82	25.34	1.04	-0.03	3.45	139.97
10	56	154.08	3.78	-7.50e-04	0.0	0.0	-1353.58	27.90	1.14	-0.03	-2.77	-6.61
		-6.61	-2.77	-4.02e-04	0.0	576.0	-1313.26	27.90	1.14	-0.03	3.78	154.08
11	1	186.75	-1.80	-9.12e-04	0.0	0.0	-1637.06	33.82	-0.36	6.06e-03	-1.80	-8.06
		-8.06	-3.88	-5.27e-04	0.0	576.0	-1584.64	33.82	-0.36	6.06e-03	-3.88	186.75
11	2	186.84	-1.81	-9.13e-04	0.0	0.0	-1653.23	33.84	-0.37	6.31e-03	-1.81	-8.07
		-8.07	-3.95	-5.31e-04	0.0	576.0	-1600.81	33.84	-0.37	6.31e-03	-3.95	186.84
11	3	258.08	-2.42	-1.26e-03	0.0	0.0	-2110.23	46.74	-0.51	6.58e-03	-2.42	-11.13
		-11.13	-5.35	-7.13e-04	0.0	576.0	-2057.81	46.74	-0.51	6.58e-03	-5.35	258.08
11	4	258.18	-2.42	-1.26e-03	0.0	0.0	-2126.40	46.76	-0.52	6.82e-03	-2.42	-11.13
		-11.13	-5.42	-7.17e-04	0.0	576.0	-2073.98	46.76	-0.52	6.82e-03	-5.42	258.18
11	5	99.42	-1.11	-4.89e-04	0.0	0.0	-1051.54	18.02	-0.23	5.58e-03	-1.11	-4.36
		-4.36	-2.40	-3.25e-04	0.0	576.0	-1011.22	18.02	-0.23	5.58e-03	-2.40	99.42
11	6	99.52	-1.11	-4.90e-04	0.0	0.0	-1067.71	18.03	-0.24	5.83e-03	-1.11	-4.36
		-4.36	-2.48	-3.29e-04	0.0	576.0	-1027.39	18.03	-0.24	5.83e-03	-2.48	99.52
11	7	170.76	-1.72	-8.37e-04	0.0	0.0	-1524.71	30.94	-0.37	6.10e-03	-1.72	-7.42
		-7.42	-3.88	-5.11e-04	0.0	576.0	-1484.39	30.94	-0.37	6.10e-03	-3.88	170.76
11	8	170.86	-1.73	-8.38e-04	0.0	0.0	-1540.88	30.95	-0.39	6.35e-03	-1.73	-7.43
		-7.43	-3.95	-5.15e-04	0.0	576.0	-1500.56	30.95	-0.39	6.35e-03	-3.95	170.86
11	9	186.94	-1.81	-9.13e-04	0.0	0.0	-1669.40	33.86	-0.38	6.55e-03	-1.81	-8.07
		-8.07	-4.02	-5.35e-04	0.0	576.0	-1616.98	33.86	-0.38	6.55e-03	-4.02	186.94
11	10	236.68	-2.23	-1.16e-03	0.0	0.0	-1968.28	42.86	-0.46	6.42e-03	-2.23	-10.21
		-10.21	-4.91	-6.57e-04	0.0	576.0	-1915.86	42.86	-0.46	6.42e-03	-4.91	236.68
11	11	236.88	-2.24	-1.16e-03	0.0	0.0	-2000.62	42.90	-0.49	6.91e-03	-2.24	-10.22
		-10.22	-5.05	-6.65e-04	0.0	576.0	-1948.20	42.90	-0.49	6.91e-03	-5.05	236.88
11	12	99.62	-1.12	-4.90e-04	0.0	0.0	-1083.88	18.05	-0.25	6.07e-03	-1.12	-4.36
		-4.36	-2.55	-3.33e-04	0.0	576.0	-1043.56	18.05	-0.25	6.07e-03	-2.55	99.62
11	13	149.36	-1.54	-7.33e-04	0.0	0.0	-1382.76	27.06	-0.33	5.95e-03	-1.54	-6.50
		-6.50	-3.43	-4.55e-04	0.0	576.0	-1342.44	27.06	-0.33	5.95e-03	-3.43	149.36
11	14	149.55	-1.55	-7.34e-04	0.0	0.0	-1415.10	27.09	-0.35	6.44e-03	-1.55	-6.51
		-6.51	-3.58	-4.63e-04	0.0	576.0	-1374.78	27.09	-0.35	6.44e-03	-3.58	149.55
11	15	183.15	-1.78	-8.98e-04	0.0	0.0	-1662.05	33.18	-0.40	0.01	-1.78	-7.96
		-7.96	-4.11	-5.33e-04	0.0	576.0	-1609.64	33.18	-0.40	0.01	-4.11	183.15
11	16	183.25	-1.79	-8.98e-04	0.0	0.0	-1678.22	33.20	-0.42	0.01	-1.79	-7.97
		-7.97	-4.18	-5.37e-04	0.0	576.0	-1625.81	33.20	-0.42	0.01	-4.18	183.25
11	17	233.09	-2.21	-1.14e-03	0.0	0.0	-1993.27	42.22	-0.51	0.01	-2.21	-10.11
		-10.11	-5.14	-6.63e-04	0.0	576.0	-1940.86	42.22	-0.51	0.01	-5.14	233.09
11	18	233.18	-2.22	-1.14e-03	0.0	0.0	-2009.44	42.24	-0.52	0.01	-2.22	-10.11
		-10.11	-5.21	-6.67e-04	0.0	576.0	-1957.03	42.24	-0.52	0.01	-5.21	233.18
11	19	95.83	-1.09	-4.75e-04	0.0	0.0	-1076.54	17.38	-0.27	9.99e-03	-1.09	-4.26
		-4.26	-2.64	-3.30e-04	0.0	576.0	-1036.22	17.38	-0.27	9.99e-03	-2.64	95.83
11	20	95.92	-1.09	-4.76e-04	0.0	0.0	-1092.71	17.39	-0.28	0.01	-1.09	-4.26
		-4.26	-2.71	-3.34e-04	0.0	576.0	-1052.39	17.39	-0.28	0.01	-2.71	95.92
11	21	145.76	-1.52	-7.19e-04	0.0	0.0	-1407.75	26.42	-0.37	0.01	-1.52	-6.41
		-6.41	-3.67	-4.60e-04	0.0	576.0	-1367.43	26.42	-0.37	0.01	-3.67	145.76
11	22	145.86	-1.52	-7.19e-04	0.0	0.0	-1423.92	26.44	-0.38	0.01	-1.52	-6.41
		-6.41	-3.74	-4.64e-04	0.0	576.0	-1383.60	26.44	-0.38	0.01	-3.74	145.86
11	23	153.63	87.25	-7.49e-04	0.0	0.0	-1311.41	27.82	-43.22	-0.06	87.25	-6.60
		-6.60	-161.75	0.01	0.0	576.0	-1271.09	27.82	-43.22	-0.06	-161.75	153.63
11	24	160.92	85.10	-7.78e-04	0.0	0.0	-1260.98	29.12	-42.19	-0.08	85.10	-6.82
		-6.82	-157.92	0.01	0.0	576.0	-1220.66	29.12	-42.19	-0.08	-157.92	160.92
11	25	151.75	152.08	-7.42e-04	0.0	0.0	-1331.46	27.48	41.70	0.08	-88.10	-6.55
		-6.55	-88.10	-0.01	0.0	576.0	-1291.14	27.48	41.70	0.08	152.08	151.75
11	26	159.05	155.90	-7.71e-04	0.0	0.0	-1281.02	28.79	42.73	0.06	-90.25	-6.78
		-6.78	-90.25	-0.01	0.0	576.0	-1240.70	28.79	42.73	0.06	155.90	159.05
11	27	154.52	87.16	-7.52e-04	0.0	0.0	-1305.46	27.98	-43.23	-0.09	87.16	-6.63
		-6.63	-158.41	0.01	0.0	576.0	-1265.14	27.98	-43.23	-0.09	-158.41	154.52
11	28	160.03	85.20	-7.75e-04	0.0	0.0	-1266.94	28.96	-42.19	-0.06	85.20	-6.80
		-6.80	-161.26	0.01	0.0	576.0	-1226.62	28.96	-42.19	-0.06	-161.26	160.03
11	29	152.65	155.41	-7.45e-04	0.0	0.0	-1325.50	27.64	41.69	0.06	-88.20	-6.58
		-6.58	-88.20	-0.01	0.0	576.0	-1285.18	27.64	41.69	0.06	155.41	152.65
11	30	158.16	152.57	-7.68e-04	0.0	0.0	-1286.98	28.63	42.74	0.09	-90.15	-6.75
		-6.75	-90.15	-0.01	0.0	576.0	-1246.66	28.63	42.74	0.09	152.57	158.16
11	31	153.55	87.46	-7.48e-04	0.0	0.0	-1310.23	27.80	-43.17	-0.08	87.46	-6.60
		-6.60	-161.21	0.01	0.0	576.0	-1269.91	27.80	-43.17	-0.08	-161.21	153.55
11	32	160.84	85.31	-7.78e-04	0.0	0.0	-1259.79	29.11	-42.13	-0.10	85.31	-6.82
		-6.82	-157.38	0.01	0.0	576.0	-1219.47	29.11	-42.13	-0.10	-157.38	160.84
11	33	151.83	151.54	-7.42e-04	0.0	0.0	-1332.65	27.50	41.64	0.10	-88.30	-6.56
		-6.56	-88.30	-0.01	0.0	576.0	-1292.33	27.50	41.64	0.10	151.54	151.83
11	34	159.13	155.37	-7.72e-04	0.0	0.0	-1282.21	28.80	42.67	0.08	-90.46	-6.78
		-6.78	-90.46	-0.01	0.0	576.0	-1241.89	28.80	42.67	0.08	155.37	159.13
11	35	154.44	87.36	-7.52e-04	0.0	0.0	-1304.27	27.96	-43.17	-0.11	87.36	-6.62
		-6.62	-157.87	0.01	0.0	576.0	-1263.95	27.96	-43.17	-0.11	-157.87	154.44
11	36	159.95	85.40	-7.74e-04	0.0	0.0	-1265.75	28.95	-42.13	-0.07	85.40	-6.80
		-6.80	-160.72	0.01	0.0	576.0	-1225.43	28.95	-42.13	-0.07	-160.72	159.95
11	37	152.72	154.87	-7.46e-04	0.0	0.0	-1326.69	27.66	41.63	0.07	-88.40	-6.58
		-6.58	-88.40	-0.01	0.0	576.0	-1286.37	27.66	41.63	0.07	154.87	152.72
11	38	158.23	152.03	-7.68e-04	0.0	0.0	-1288.17	28.64	42.68	0.10	-90.36	-6.75
		-6.75	-90.36	-0.01	0.0	576.0	-1247.85	28.64	42.68	0.10	152.03	158.23
11	39	144.46	28.39	-7.12e-04	0.0	0.0	-1377.27	26.18	-14.71	0.01	28.39	-6.33
		-6.33	-56.37	2.49e-03	0.0	576.0	-1336.95	26.18	-14.71	0.01	-56.37	144.46
11	40	168.77	21.21	-8.10e-04	0.0	0.0	-1209.15	30.53	-11.26	-0.06	21.21	-7.06

		-7.06	-43.62	3.51e-03	0.0	576.0	-1168.83	30.53	-11.26	-0.06	-43.62	168.77
11	41	143.90	37.77	-7.10e-04	0.0	0.0	-1383.29	26.08	10.77	0.05	-24.21	-6.31
		-6.31	-24.21	-4.36e-03	0.0	576.0	-1342.97	26.08	10.77	0.05	37.77	143.90
11	42	168.21	50.53	-8.08e-04	0.0	0.0	-1215.17	30.43	14.21	-0.01	-31.39	-7.05
		-7.05	-31.39	-3.22e-03	0.0	576.0	-1174.85	30.43	14.21	-0.01	50.53	168.21
11	43	144.44	28.46	-7.12e-04	0.0	0.0	-1376.92	26.18	-14.69	6.24e-03	28.46	-6.33
		-6.33	-56.21	2.50e-03	0.0	576.0	-1336.60	26.18	-14.69	6.24e-03	-56.21	144.44
11	44	168.75	21.27	-8.10e-04	0.0	0.0	-1208.80	30.52	-11.25	-0.06	21.27	-7.06
		-7.06	-43.46	3.53e-03	0.0	576.0	-1168.48	30.52	-11.25	-0.06	-43.46	168.75
11	45	143.92	37.61	-7.10e-04	0.0	0.0	-1383.64	26.08	10.75	0.06	-24.27	-6.31
		-6.31	-24.27	-4.38e-03	0.0	576.0	-1343.32	26.08	10.75	0.06	37.61	143.92
11	46	168.24	50.37	-8.08e-04	0.0	0.0	-1215.52	30.43	14.20	-7.05e-03	-31.45	-7.05
		-7.05	-31.45	-3.24e-03	0.0	576.0	-1175.20	30.43	14.20	-7.05e-03	50.37	168.24
11	47	147.43	28.07	-7.24e-04	0.0	0.0	-1357.42	26.71	-14.73	-0.08	28.07	-6.41
		-6.41	-45.25	3.36e-03	0.0	576.0	-1317.10	26.71	-14.73	-0.08	-45.25	147.43
11	48	165.80	21.54	-7.99e-04	0.0	0.0	-1229.01	30.00	-11.24	0.03	21.54	-6.98
		-6.98	-54.74	2.65e-03	0.0	576.0	-1188.69	30.00	-11.24	0.03	-54.74	165.80
11	49	146.87	48.89	-7.21e-04	0.0	0.0	-1363.43	26.61	10.75	-0.03	-24.54	-6.40
		-6.40	-24.54	-3.38e-03	0.0	576.0	-1323.11	26.61	10.75	-0.03	48.89	146.87
11	50	165.24	39.41	-7.96e-04	0.0	0.0	-1235.02	29.90	14.23	0.08	-31.07	-6.97
		-6.97	-31.07	-4.21e-03	0.0	576.0	-1194.70	29.90	14.23	0.08	39.41	165.24
11	51	147.41	28.13	-7.23e-04	0.0	0.0	-1357.06	26.71	-14.71	-0.08	28.13	-6.41
		-6.41	-45.09	3.38e-03	0.0	576.0	-1316.74	26.71	-14.71	-0.08	-45.09	147.41
11	52	165.78	21.60	-7.98e-04	0.0	0.0	-1228.66	29.99	-11.22	0.03	21.60	-6.98
		-6.98	-54.58	2.67e-03	0.0	576.0	-1188.34	29.99	-11.22	0.03	-54.58	165.78
11	53	146.89	48.73	-7.22e-04	0.0	0.0	-1363.78	26.61	10.73	-0.03	-24.60	-6.40
		-6.40	-24.60	-3.40e-03	0.0	576.0	-1323.46	26.61	10.73	-0.03	48.73	146.89
11	54	165.27	39.25	-7.97e-04	0.0	0.0	-1235.38	29.90	14.22	0.08	-31.13	-6.97
		-6.97	-31.13	-4.23e-03	0.0	576.0	-1195.06	29.90	14.22	0.08	39.25	165.27
11	55	142.07	-1.38	-6.90e-04	0.0	0.0	-1201.59	25.72	-0.22	-5.08e-04	-1.38	-6.07
		-6.07	-2.63	-3.88e-04	0.0	576.0	-1161.27	25.72	-0.22	-5.08e-04	-2.63	142.07
11	56	156.34	-1.50	-7.60e-04	0.0	0.0	-1296.22	28.30	-0.25	-4.04e-04	-1.50	-6.69
		-6.69	-2.92	-4.26e-04	0.0	576.0	-1255.90	28.30	-0.25	-4.04e-04	-2.92	156.34
12	1	179.21	2.54	-8.73e-04	0.0	0.0	-1244.88	32.45	-5.15	0.09	2.54	-7.70
		-7.70	-27.10	-6.18e-04	0.0	576.0	-1192.46	32.45	-5.15	0.09	-27.10	179.21
12	2	179.39	2.55	-8.74e-04	0.0	0.0	-1257.04	32.48	-5.17	0.09	2.55	-7.71
		-7.71	-27.23	-6.22e-04	0.0	576.0	-1204.62	32.48	-5.17	0.09	-27.23	179.39
12	3	244.46	3.35	-1.19e-03	0.0	0.0	-1573.95	44.26	-6.87	0.12	3.35	-10.49
		-10.49	-36.21	-8.33e-04	0.0	576.0	-1521.53	44.26	-6.87	0.12	-36.21	244.46
12	4	244.64	3.36	-1.19e-03	0.0	0.0	-1586.11	44.29	-6.89	0.12	3.36	-10.49
		-10.49	-36.34	-8.37e-04	0.0	576.0	-1533.69	44.29	-6.89	0.12	-36.34	244.64
12	5	98.07	1.60	-4.81e-04	0.0	0.0	-814.79	17.77	-3.21	0.06	1.60	-4.27
		-4.27	-16.88	-3.81e-04	0.0	576.0	-774.47	17.77	-3.21	0.06	-16.88	98.07
12	6	98.24	1.60	-4.82e-04	0.0	0.0	-826.95	17.80	-3.23	0.06	1.60	-4.28
		-4.28	-17.01	-3.85e-04	0.0	576.0	-786.63	17.80	-3.23	0.06	-17.01	98.24
12	7	163.31	2.41	-7.98e-04	0.0	0.0	-1143.86	29.58	-4.93	0.09	2.41	-7.06
		-7.06	-25.99	-5.97e-04	0.0	576.0	-1103.54	29.58	-4.93	0.09	-25.99	163.31
12	8	163.49	2.42	-7.99e-04	0.0	0.0	-1156.02	29.61	-4.96	0.09	2.42	-7.07
		-7.07	-26.12	-6.01e-04	0.0	576.0	-1115.70	29.61	-4.96	0.09	-26.12	163.49
12	9	179.57	2.55	-8.75e-04	0.0	0.0	-1269.20	32.51	-5.19	0.09	2.55	-7.71
		-7.71	-27.37	-6.26e-04	0.0	576.0	-1216.78	32.51	-5.19	0.09	-27.37	179.57
12	10	224.88	3.11	-1.09e-03	0.0	0.0	-1475.23	40.72	-6.35	0.11	3.11	-9.65
		-9.65	-33.48	-7.68e-04	0.0	576.0	-1422.81	40.72	-6.35	0.11	-33.48	224.88
12	11	225.24	3.12	-1.10e-03	0.0	0.0	-1499.55	40.78	-6.40	0.11	3.12	-9.66
		-9.66	-33.74	-7.77e-04	0.0	576.0	-1447.13	40.78	-6.40	0.11	-33.74	225.24
12	12	98.42	1.61	-4.83e-04	0.0	0.0	-839.11	17.83	-3.26	0.06	1.61	-4.29
		-4.29	-17.15	-3.90e-04	0.0	576.0	-798.79	17.83	-3.26	0.06	-17.15	98.42
12	13	143.74	2.17	-7.03e-04	0.0	0.0	-1045.14	26.04	-4.41	0.08	2.17	-6.22
		-6.22	-23.26	-5.32e-04	0.0	576.0	-1004.82	26.04	-4.41	0.08	-23.26	143.74
12	14	144.09	2.18	-7.05e-04	0.0	0.0	-1069.46	26.10	-4.46	0.08	2.18	-6.24
		-6.24	-23.52	-5.40e-04	0.0	576.0	-1029.14	26.10	-4.46	0.08	-23.52	144.09
12	15	174.91	2.53	-8.56e-04	0.0	0.0	-1270.75	31.68	-5.16	0.09	2.53	-7.58
		-7.58	-27.19	-6.23e-04	0.0	576.0	-1218.34	31.68	-5.16	0.09	-27.19	174.91
12	16	175.08	2.54	-8.57e-04	0.0	0.0	-1282.91	31.71	-5.18	0.09	2.54	-7.59
		-7.59	-27.32	-6.27e-04	0.0	576.0	-1230.50	31.71	-5.18	0.09	-27.32	175.08
12	17	220.58	3.10	-1.08e-03	0.0	0.0	-1501.10	39.95	-6.37	0.11	3.10	-9.53
		-9.53	-33.56	-7.74e-04	0.0	576.0	-1448.68	39.95	-6.37	0.11	-33.56	220.58
12	18	220.76	3.11	-1.08e-03	0.0	0.0	-1513.26	39.98	-6.39	0.11	3.11	-9.54
		-9.54	-33.70	-7.78e-04	0.0	576.0	-1460.85	39.98	-6.39	0.11	-33.70	220.76
12	19	93.76	1.59	-4.64e-04	0.0	0.0	-840.66	17.00	-3.22	0.06	1.59	-4.16
		-4.16	-16.97	-3.86e-04	0.0	576.0	-800.34	17.00	-3.22	0.06	-16.97	93.76
12	20	93.94	1.60	-4.65e-04	0.0	0.0	-852.83	17.03	-3.25	0.06	1.60	-4.16
		-4.16	-17.10	-3.91e-04	0.0	576.0	-812.51	17.03	-3.25	0.06	-17.10	93.94
12	21	139.43	2.16	-6.86e-04	0.0	0.0	-1071.01	25.27	-4.43	0.08	2.16	-6.11
		-6.11	-23.34	-5.37e-04	0.0	576.0	-1030.69	25.27	-4.43	0.08	-23.34	139.43
12	22	139.61	2.17	-6.87e-04	0.0	0.0	-1083.17	25.30	-4.45	0.08	2.17	-6.11
		-6.11	-23.48	-5.41e-04	0.0	576.0	-1042.85	25.30	-4.45	0.08	-23.48	139.61
12	23	149.97	89.87	-7.27e-04	0.0	0.0	-973.83	27.15	-46.13	0.02	89.87	-6.41
		-6.41	-175.93	0.01	0.0	576.0	-933.51	27.15	-46.13	0.02	-175.93	149.97
12	24	158.82	87.67	-7.63e-04	0.0	0.0	-919.73	28.73	-45.04	-3.78e-03	87.67	-6.67
		-6.67	-171.79	0.01	0.0	576.0	-879.41	28.73	-45.04	-3.78e-03	-171.79	158.82
12	25	142.72	127.72	-6.97e-04	0.0	0.0	-1026.91	25.84	36.67	0.15	-83.51	-6.13
		-6.13	-83.51	-0.01	0.0	576.0	-986.59	25.84	36.67	0.15	127.72	142.72
12	26	151.57	131.86	-7.33e-04	0.0	0.0	-972.81	27.43	37.76	0.13	-85.72	-6.40
		-6.40	-85.72	-0.01	0.0	576.0	-932.49	27.43	37.76	0.13	131.86	151.57
12	27	151.26	87.75	-7.32e-04	0.0	0.0	-965.95	27.38	-44.97	0.03	87.75	-6.44
		-6.44	-171.20	0.01	0.0	576.0	-925.63	27.38	-44.97	0.03	-171.20	151.26
12	28	157.52	89.79	-7.58e-04	0.0	0.0	-927.61	28.50	-46.21	-0.01	89.79	-6.64
		-6.64	-176.53	0.01	0.0	576.0	-887.29	28.50	-46.21	-0.01	-176.53	157.52
12	29	144.01	132.45	-7.03e-04	0.0	0.0	-1019.03	26.07	37.83	0.16	-85.64	-6.17
		-6.17	-85.64	-0.01	0.0	576.0	-978.71	26.07	37.83	0.16	132.45	144.01
12	30	150.27	127.12	-7.28e-04	0.0	0.0	-980.69	27.19	36.59	0.12	-83.60	-6.36
		-6.36	-83.60	-0.01	0.0	576.0	-940.37	27.19	36.59	0.12	127.12	150.27
12	31	151.12	89.92	-7.33e-04	0.0	0.0	-965.90	27.35	-45.89	-1.38e-03	89.92	-6.43
		-6.43	-174.52	0.01	0.0	576.0	-925.58	27.35	-45.89	-1.38e-03	-174.52	151.12
12	32	159.97	87.71	-7.68e-04	0.0	0.0	-911.80	28.94	-44.80	-0.02	87.71	-6.70

		-6.70	-170.38	0.01	0.0	576.0	-871.48	28.94	-44.80	-0.02	-170.38	159.97
12	33	141.56	126.31	-6.92e-04	0.0	0.0	-1034.84	25.64	36.43	0.17	-83.56	-6.11
		-6.11	-83.56	-0.01	0.0	576.0	-994.52	25.64	36.43	0.17	126.31	141.56
12	34	150.41	130.44	-7.27e-04	0.0	0.0	-980.74	27.22	37.52	0.15	-85.76	-6.38
		-6.38	-85.76	-0.01	0.0	576.0	-940.42	27.22	37.52	0.15	130.44	150.41
12	35	152.42	87.79	-7.38e-04	0.0	0.0	-958.02	27.58	-44.73	5.81e-03	87.79	-6.47
		-6.47	-169.78	0.01	0.0	576.0	-917.70	27.58	-44.73	5.81e-03	-169.78	152.42
12	36	158.68	89.83	-7.63e-04	0.0	0.0	-919.68	28.70	-45.97	-0.03	89.83	-6.66
		-6.66	-175.11	0.01	0.0	576.0	-879.36	28.70	-45.97	-0.03	-175.11	158.68
12	37	142.86	131.04	-6.97e-04	0.0	0.0	-1026.96	25.87	37.59	0.18	-85.68	-6.15
		-6.15	-85.68	-0.01	0.0	576.0	-986.64	25.87	37.59	0.18	131.04	142.86
12	38	149.12	125.71	-7.22e-04	0.0	0.0	-988.62	26.99	36.36	0.14	-83.64	-6.34
		-6.34	-83.64	-0.01	0.0	576.0	-948.30	26.99	36.36	0.14	125.71	149.12
12	39	137.10	31.76	-6.75e-04	0.0	0.0	-1055.53	24.85	-18.43	0.09	31.76	-6.00
		-6.00	-74.48	2.60e-03	0.0	576.0	-1015.21	24.85	-18.43	0.09	-74.48	137.10
12	40	166.61	24.41	-7.94e-04	0.0	0.0	-875.20	30.12	-14.78	0.02	24.41	-6.89
		-6.89	-60.69	3.51e-03	0.0	576.0	-834.88	30.12	-14.78	0.02	-60.69	166.61
12	41	134.93	16.62	-6.66e-04	0.0	0.0	-1071.45	24.45	6.41	0.13	-20.25	-5.92
		-5.92	-20.25	-4.45e-03	0.0	576.0	-1031.13	24.45	6.41	0.13	16.62	134.93
12	42	164.43	30.41	-7.85e-04	0.0	0.0	-891.12	29.73	10.06	0.06	-27.61	-6.80
		-6.80	-27.61	-3.30e-03	0.0	576.0	-850.80	29.73	10.06	0.06	30.41	164.43
12	43	137.45	31.78	-6.77e-04	0.0	0.0	-1053.15	24.91	-18.36	0.09	31.78	-6.01
		-6.01	-74.05	2.61e-03	0.0	576.0	-1012.83	24.91	-18.36	0.09	-74.05	137.45
12	44	166.95	24.42	-7.95e-04	0.0	0.0	-872.82	30.18	-14.71	9.49e-03	24.42	-6.89
		-6.89	-60.27	3.52e-03	0.0	576.0	-832.50	30.18	-14.71	9.49e-03	-60.27	166.95
12	45	134.58	16.19	-6.65e-04	0.0	0.0	-1073.83	24.39	6.34	0.14	-20.27	-5.91
		-5.91	-20.27	-4.47e-03	0.0	576.0	-1033.51	24.39	6.34	0.14	16.19	134.58
12	46	164.09	29.98	-7.83e-04	0.0	0.0	-893.50	29.67	9.99	0.06	-27.62	-6.80
		-6.80	-27.62	-3.32e-03	0.0	576.0	-853.18	29.67	9.99	0.06	29.98	164.09
12	47	141.42	24.69	-6.93e-04	0.0	0.0	-1029.26	25.62	-14.54	0.12	24.69	-6.12
		-6.12	-58.70	3.44e-03	0.0	576.0	-988.94	25.62	-14.54	0.12	-58.70	141.42
12	48	162.29	31.48	-7.76e-04	0.0	0.0	-901.46	29.35	-18.67	-8.31e-03	31.48	-6.77
		-6.77	-76.46	2.68e-03	0.0	576.0	-861.14	29.35	-18.67	-8.31e-03	-76.46	162.29
12	49	139.25	32.39	-6.84e-04	0.0	0.0	-1045.19	25.22	10.30	0.16	-27.33	-6.04
		-6.04	-27.33	-3.36e-03	0.0	576.0	-1004.87	25.22	10.30	0.16	32.39	139.25
12	50	160.11	14.63	-7.67e-04	0.0	0.0	-917.38	28.96	6.17	0.03	-20.53	-6.68
		-6.68	-20.53	-4.39e-03	0.0	576.0	-877.06	28.96	6.17	0.03	14.63	160.11
12	51	141.77	24.70	-6.94e-04	0.0	0.0	-1026.88	25.68	-14.47	0.11	24.70	-6.13
		-6.13	-58.28	3.45e-03	0.0	576.0	-986.56	25.68	-14.47	0.11	-58.28	141.77
12	52	162.64	31.50	-7.78e-04	0.0	0.0	-899.08	29.41	-18.60	-0.01	31.50	-6.77
		-6.77	-76.04	2.69e-03	0.0	576.0	-858.76	29.41	-18.60	-0.01	-76.04	162.64
12	53	138.90	31.97	-6.82e-04	0.0	0.0	-1047.56	25.16	10.23	0.16	-27.34	-6.03
		-6.03	-27.34	-3.38e-03	0.0	576.0	-1007.24	25.16	10.23	0.16	31.97	138.90
12	54	159.77	14.21	-7.66e-04	0.0	0.0	-919.76	28.90	6.10	0.04	-20.54	-6.68
		-6.68	-20.54	-4.41e-03	0.0	576.0	-879.44	28.90	6.10	0.04	14.21	159.77
12	55	137.72	1.91	-6.67e-04	0.0	0.0	-907.51	24.92	-3.84	0.07	1.91	-5.85
		-5.85	-20.21	-4.56e-04	0.0	576.0	-867.19	24.92	-3.84	0.07	-20.21	137.72
12	56	150.77	2.08	-7.30e-04	0.0	0.0	-973.32	27.29	-4.19	0.07	2.08	-6.40
		-6.40	-22.04	-4.99e-04	0.0	576.0	-933.00	27.29	-4.19	0.07	-22.04	150.77
13	1	34.28	1.84	-4.35e-04	0.0	0.0	-690.87	-8.10	-2.83	0.11	1.84	34.28
		-12.39	-14.44	-6.09e-04	0.0	576.0	-658.11	-8.10	-2.83	0.11	-14.44	-12.39
13	2	34.72	1.84	-4.39e-04	0.0	0.0	-699.20	-8.23	-2.84	0.11	1.84	34.72
		-12.67	-14.49	-6.13e-04	0.0	576.0	-666.44	-8.23	-2.84	0.11	-14.49	-12.67
13	3	41.48	2.43	-5.82e-04	0.0	0.0	-851.01	-9.18	-3.76	0.15	2.43	41.48
		-11.39	-19.26	-8.21e-04	0.0	576.0	-818.25	-9.18	-3.76	0.15	-19.26	-11.39
13	4	41.92	2.43	-5.85e-04	0.0	0.0	-859.34	-9.30	-3.78	0.15	2.43	41.92
		-11.66	-19.31	-8.25e-04	0.0	576.0	-826.58	-9.30	-3.78	0.15	-19.31	-11.66
13	5	23.66	1.14	-2.53e-04	0.0	0.0	-463.88	-6.15	-1.75	0.07	1.14	23.66
		-11.79	-8.95	-3.76e-04	0.0	576.0	-438.68	-6.15	-1.75	0.07	-8.95	-11.79
13	6	24.10	1.15	-2.57e-04	0.0	0.0	-472.21	-6.28	-1.76	0.07	1.15	24.10
		-12.06	-9.01	-3.80e-04	0.0	576.0	-447.01	-6.28	-1.76	0.07	-9.01	-12.06
13	7	30.86	1.73	-3.99e-04	0.0	0.0	-624.02	-7.23	-2.69	0.11	1.73	30.86
		-10.78	-13.77	-5.88e-04	0.0	576.0	-598.82	-7.23	-2.69	0.11	-13.77	-10.78
13	8	31.30	1.74	-4.03e-04	0.0	0.0	-632.35	-7.35	-2.70	0.11	1.74	31.30
		-11.05	-13.82	-5.92e-04	0.0	576.0	-607.15	-7.35	-2.70	0.11	-13.82	-11.05
13	9	35.16	1.84	-4.43e-04	0.0	0.0	-707.52	-8.35	-2.85	0.12	1.84	35.16
		-12.94	-14.55	-6.17e-04	0.0	576.0	-674.76	-8.35	-2.85	0.12	-14.55	-12.94
13	10	39.32	2.25	-5.38e-04	0.0	0.0	-802.97	-8.86	-3.48	0.14	2.25	39.32
		-11.69	-17.81	-7.58e-04	0.0	576.0	-770.21	-8.86	-3.48	0.14	-17.81	-11.69
13	11	40.20	2.26	-5.45e-04	0.0	0.0	-819.62	-9.10	-3.50	0.14	2.26	40.20
		-12.24	-17.92	-7.66e-04	0.0	576.0	-786.86	-9.10	-3.50	0.14	-17.92	-12.24
13	12	24.54	1.15	-2.60e-04	0.0	0.0	-480.54	-6.40	-1.77	0.07	1.15	24.54
		-12.34	-9.06	-3.84e-04	0.0	576.0	-455.34	-6.40	-1.77	0.07	-9.06	-12.34
13	13	28.70	1.56	-3.55e-04	0.0	0.0	-575.98	-6.91	-2.41	0.10	1.56	28.70
		-11.08	-12.32	-5.24e-04	0.0	576.0	-550.78	-6.91	-2.41	0.10	-12.32	-11.08
13	14	29.58	1.56	-3.63e-04	0.0	0.0	-592.63	-7.15	-2.43	0.10	1.56	29.58
		-11.63	-12.43	-5.32e-04	0.0	576.0	-567.43	-7.15	-2.43	0.10	-12.43	-11.63
13	15	36.19	1.79	-4.00e-04	0.0	0.0	-713.16	-9.27	-2.79	0.11	1.79	36.19
		-17.19	-14.30	-6.13e-04	0.0	576.0	-680.40	-9.27	-2.79	0.11	-14.30	-17.19
13	16	36.63	1.80	-4.04e-04	0.0	0.0	-721.49	-9.39	-2.80	0.11	1.80	36.63
		-17.47	-14.35	-6.17e-04	0.0	576.0	-688.73	-9.39	-2.80	0.11	-14.35	-17.47
13	17	41.23	2.21	-5.03e-04	0.0	0.0	-825.26	-10.02	-3.45	0.14	2.21	41.23
		-16.49	-17.67	-7.62e-04	0.0	576.0	-792.50	-10.02	-3.45	0.14	-17.67	-16.49
13	18	41.67	2.21	-5.07e-04	0.0	0.0	-833.59	-10.14	-3.46	0.14	2.21	41.67
		-16.76	-17.73	-7.66e-04	0.0	576.0	-800.83	-10.14	-3.46	0.14	-17.73	-16.76
13	19	25.57	1.10	-2.29e-04	0.0	0.0	-486.17	-7.32	-1.72	0.07	1.10	25.57
		-16.58	-8.81	-3.80e-04	0.0	576.0	-460.97	-7.32	-1.72	0.07	-8.81	-16.58
13	20	26.01	1.10	-2.33e-04	0.0	0.0	-494.50	-7.44	-1.73	0.07	1.10	26.01
		-16.86	-8.87	-3.84e-04	0.0	576.0	-469.30	-7.44	-1.73	0.07	-8.87	-16.86
13	21	30.61	1.51	-3.21e-04	0.0	0.0	-598.27	-8.07	-2.38	0.09	1.51	30.61
		-15.88	-12.18	-5.28e-04	0.0	576.0	-573.07	-8.07	-2.38	0.09	-12.18	-15.88
13	22	31.05	1.52	-3.24e-04	0.0	0.0	-606.60	-8.19	-2.39	0.09	1.52	31.05
		-16.15	-12.24	-5.32e-04	0.0	576.0	-581.40	-8.19	-2.39	0.09	-12.24	-16.15
13	23	35.98	43.96	-3.98e-04	0.0	0.0	-710.50	-9.13	-20.60	0.55	43.96	35.98
		-16.74	-73.62	0.01	0.0	576.0	-685.30	-9.13	-20.60	0.55	-73.62	-16.74
13	24	32.32	45.13	-4.69e-04	0.0	0.0	-667.10	-6.86	-20.06	0.54	45.13	32.32

		-7.27	-71.66	0.01	0.0	576.0	-641.90	-6.86	-20.06	0.54	-71.66	-7.27
13	25	18.00	47.76	-3.21e-04	0.0	0.0	-388.30	-3.22	15.38	-0.35	-42.03	18.00
		-0.48	-42.03	-0.01	0.0	576.0	-363.10	-3.22	15.38	-0.35	47.76	-0.48
13	26	14.34	49.71	-3.95e-04	0.0	0.0	-344.91	-0.95	15.92	-0.36	-40.87	14.34
		8.99	-40.87	-0.01	0.0	576.0	-319.71	-0.95	15.92	-0.36	49.71	8.99
13	27	35.56	44.01	-4.13e-04	0.0	0.0	-707.95	-8.79	-20.03	0.53	44.01	35.56
		-15.25	-71.35	0.01	0.0	576.0	-682.75	-8.79	-20.03	0.53	-71.35	-15.25
13	28	32.75	45.08	-4.54e-04	0.0	0.0	-669.65	-7.21	-20.64	0.57	45.08	32.75
		-8.77	-73.93	0.01	0.0	576.0	-644.45	-7.21	-20.64	0.57	-73.93	-8.77
13	29	17.57	50.03	-3.36e-04	0.0	0.0	-385.76	-2.87	15.95	-0.38	-41.98	17.57
		1.02	-41.98	-0.01	0.0	576.0	-360.56	-2.87	15.95	-0.38	50.03	1.02
13	30	14.76	47.44	-3.77e-04	0.0	0.0	-347.45	-1.29	15.34	-0.33	-40.92	14.76
		7.49	-40.92	-0.01	0.0	576.0	-322.25	-1.29	15.34	-0.33	47.44	7.49
13	31	35.86	43.96	-4.19e-04	0.0	0.0	-713.60	-8.82	-20.48	0.53	43.96	35.86
		-14.98	-72.89	0.01	0.0	576.0	-688.40	-8.82	-20.48	0.53	-72.89	-14.98
13	32	32.20	45.12	-4.89e-04	0.0	0.0	-670.21	-6.55	-19.94	0.52	45.12	32.20
		-5.51	-70.93	0.01	0.0	576.0	-645.01	-6.55	-19.94	0.52	-70.93	-5.51
13	33	18.12	47.03	-3.00e-04	0.0	0.0	-385.20	-3.53	15.25	-0.33	-42.03	18.12
		-2.24	-42.03	-0.01	0.0	576.0	-360.00	-3.53	15.25	-0.33	47.03	-2.24
13	34	14.46	48.98	-3.71e-04	0.0	0.0	-341.80	-1.26	15.79	-0.34	-40.87	14.46
		7.23	-40.87	-0.01	0.0	576.0	-316.60	-1.26	15.79	-0.34	48.98	7.23
13	35	35.43	44.01	-4.34e-04	0.0	0.0	-711.05	-8.47	-19.90	0.50	44.01	35.43
		-13.48	-70.62	0.01	0.0	576.0	-685.85	-8.47	-19.90	0.50	-70.62	-13.48
13	36	32.62	45.08	-4.75e-04	0.0	0.0	-672.75	-6.89	-20.51	0.54	45.08	32.62
		-7.01	-73.20	0.01	0.0	576.0	-647.55	-6.89	-20.51	0.54	-73.20	-7.01
13	37	17.70	49.30	-3.15e-04	0.0	0.0	-382.65	-3.19	15.83	-0.35	-41.98	17.70
		-0.74	-41.98	-0.01	0.0	576.0	-357.45	-3.19	15.83	-0.35	49.30	-0.74
13	38	14.89	46.72	-3.56e-04	0.0	0.0	-344.35	-1.61	15.21	-0.31	-40.91	14.89
		5.73	-40.91	-0.01	0.0	576.0	-319.15	-1.61	15.21	-0.31	46.72	5.73
13	39	33.96	12.51	-3.04e-04	0.0	0.0	-648.36	-9.71	-8.64	0.25	12.51	33.96
		-22.10	-33.42	2.74e-03	0.0	576.0	-623.16	-9.71	-8.64	0.25	-33.42	-22.10
13	40	21.76	16.38	-5.24e-04	0.0	0.0	-503.70	-2.15	-6.84	0.21	16.38	21.76
		9.47	-26.90	3.44e-03	0.0	576.0	-478.50	-2.15	-6.84	0.21	-26.90	9.47
13	41	28.56	2.99	-2.72e-04	0.0	0.0	-551.70	-7.93	2.16	-0.02	-13.29	28.56
		-17.22	-13.29	-4.42e-03	0.0	576.0	-526.50	-7.93	2.16	-0.02	2.99	-17.22
13	42	16.36	9.51	-5.10e-04	0.0	0.0	-407.05	-0.37	3.95	-0.06	-9.42	16.36
		14.35	-9.42	-3.47e-03	0.0	576.0	-381.85	-0.37	3.95	-0.06	9.51	14.35
13	43	33.92	12.51	-3.08e-04	0.0	0.0	-649.29	-9.61	-8.60	0.24	12.51	33.92
		-21.57	-33.20	2.75e-03	0.0	576.0	-624.09	-9.61	-8.60	0.24	-33.20	-21.57
13	44	21.72	16.38	-5.30e-04	0.0	0.0	-504.64	-2.05	-6.80	0.20	16.38	21.72
		9.99	-26.68	3.46e-03	0.0	576.0	-479.44	-2.05	-6.80	0.20	-26.68	9.99
13	45	28.60	2.78	-2.68e-04	0.0	0.0	-550.77	-8.03	2.12	-0.01	-13.29	28.60
		-17.75	-13.29	-4.44e-03	0.0	576.0	-525.57	-8.03	2.12	-0.01	2.78	-17.75
13	46	16.40	9.30	-5.03e-04	0.0	0.0	-406.11	-0.47	3.91	-0.05	-9.42	16.40
		13.82	-9.42	-3.49e-03	0.0	576.0	-380.91	-0.47	3.91	-0.05	9.30	13.82
13	47	32.54	12.67	-3.38e-04	0.0	0.0	-639.87	-8.56	-6.72	0.16	12.67	32.54
		-17.10	-25.85	3.48e-03	0.0	576.0	-614.67	-8.56	-6.72	0.16	-25.85	-17.10
13	48	23.18	16.23	-4.75e-04	0.0	0.0	-512.19	-3.29	-8.76	0.30	16.23	23.18
		4.47	-34.46	2.69e-03	0.0	576.0	-486.99	-3.29	-8.76	0.30	-34.46	4.47
13	49	27.14	10.56	-3.15e-04	0.0	0.0	-543.21	-6.79	4.08	-0.11	-13.13	27.14
		-12.22	-13.13	-3.44e-03	0.0	576.0	-518.01	-6.79	4.08	-0.11	10.56	-12.22
13	50	17.78	1.95	-4.52e-04	0.0	0.0	-415.53	-1.52	2.03	0.03	-9.57	17.78
		9.35	-9.57	-4.45e-03	0.0	576.0	-390.33	-1.52	2.03	0.03	1.95	9.35
13	51	32.50	12.66	-3.44e-04	0.0	0.0	-640.80	-8.47	-6.68	0.15	12.66	32.50
		-16.58	-25.63	3.50e-03	0.0	576.0	-615.60	-8.47	-6.68	0.15	-25.63	-16.58
13	52	23.14	16.23	-4.81e-04	0.0	0.0	-513.12	-3.20	-8.72	0.30	16.23	23.14
		5.00	-34.24	2.70e-03	0.0	576.0	-487.92	-3.20	-8.72	0.30	-34.24	5.00
13	53	27.18	10.34	-3.08e-04	0.0	0.0	-542.28	-6.88	4.04	-0.11	-13.13	27.18
		-12.75	-13.13	-3.46e-03	0.0	576.0	-517.08	-6.88	4.04	-0.11	10.34	-12.75
13	54	17.82	1.73	-4.46e-04	0.0	0.0	-414.60	-1.61	1.99	0.04	-9.57	17.82
		8.82	-9.57	-4.47e-03	0.0	576.0	-389.40	-1.61	1.99	0.04	1.73	8.82
13	55	23.72	1.43	-3.66e-04	0.0	0.0	-495.67	-4.83	-2.16	0.09	1.43	23.72
		-4.08	-10.99	-4.51e-04	0.0	576.0	-470.47	-4.83	-2.16	0.09	-10.99	-4.08
13	56	25.16	1.55	-3.95e-04	0.0	0.0	-527.70	-5.04	-2.34	0.10	1.55	25.16
		-3.88	-11.95	-4.94e-04	0.0	576.0	-502.50	-5.04	-2.34	0.10	-11.95	-3.88

...omissis...

Pilas.	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T
	-694.60	-221.91	-0.01	0.0	-2222.21	-220.90	-73.76	-7.84
	833.08	220.20	0.01	0.0	156.37	255.91	83.83	8.76

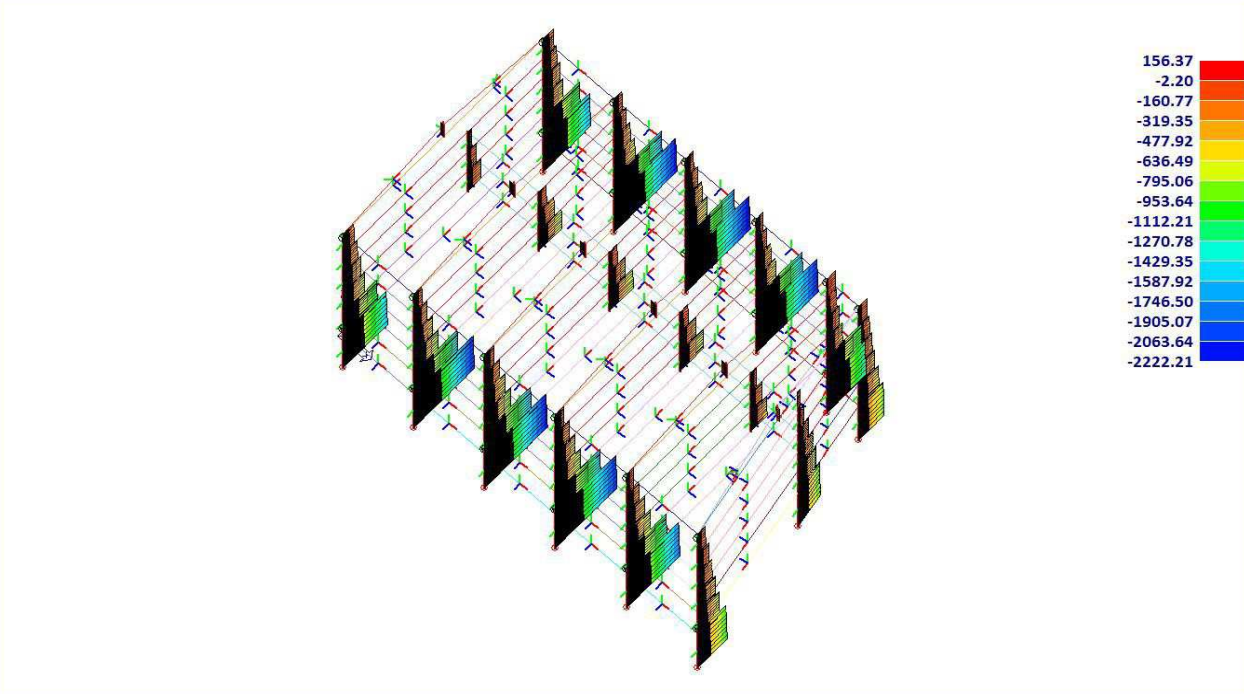


Figura 24 - Pilastri: diagramma inviluppo di sforzo normale allo SLU

III.7.3. Travi

Seguono i risultati delle travi.

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		kN m	kN m	m	kN	cm	kN	kN	kN	kN m	kN m	kN m
14	1	7.76	1.73	-1.31e-03	-29.90	0.0	-0.79	22.51	2.12	-2.07	0.47	-23.69
		-23.69	-4.04	-9.37e-06	-6.68	371.0	-0.79	-7.39	-4.56	-2.07	-4.04	4.37
14	2	7.81	1.73	-1.33e-03	-29.90	0.0	-0.77	22.59	2.12	-2.07	0.48	-23.83
		-23.83	-4.04	-9.37e-06	-6.68	371.0	-0.77	-7.32	-4.56	-2.07	-4.04	4.50
14	3	11.21	2.02	-1.84e-03	-29.90	0.0	-1.96	25.72	1.78	-3.19	1.14	-29.81
		-29.81	-4.64	-1.01e-05	-6.68	371.0	-1.96	-4.18	-4.90	-3.19	-4.64	10.14
14	4	11.30	2.02	-1.85e-03	-29.90	0.0	-1.94	25.79	1.78	-3.19	1.15	-29.96
		-29.96	-4.65	-1.01e-05	-6.68	371.0	-1.94	-4.11	-4.90	-3.19	-4.65	10.26
14	5	4.82	1.48	-7.75e-04	-23.00	0.0	-0.17	15.80	2.47	-0.92	-0.22	-15.31
		-15.31	-3.43	-8.62e-06	-6.68	371.0	-0.17	-7.20	-4.20	-0.92	-3.43	0.64
14	6	4.87	1.48	-7.89e-04	-23.00	0.0	-0.14	15.87	2.47	-0.91	-0.21	-15.45
		-15.45	-3.44	-8.62e-06	-6.68	371.0	-0.14	-7.13	-4.21	-0.91	-3.44	0.77
14	7	7.69	1.71	-1.30e-03	-23.00	0.0	-1.34	19.01	2.13	-2.03	0.45	-21.44
		-21.44	-4.03	-9.28e-06	-6.68	371.0	-1.34	-4.00	-4.55	-2.03	-4.03	6.41
14	8	7.76	1.71	-1.31e-03	-23.00	0.0	-1.31	19.08	2.13	-2.03	0.46	-21.58
		-21.58	-4.04	-9.28e-06	-6.68	371.0	-1.31	-3.92	-4.55	-2.03	-4.04	6.54
14	9	7.87	1.73	-1.34e-03	-29.90	0.0	-0.74	22.66	2.12	-2.07	0.49	-23.97
		-23.97	-4.05	-9.37e-06	-6.68	371.0	-0.74	-7.24	-4.56	-2.07	-4.05	4.62
14	10	10.04	1.92	-1.68e-03	-29.90	0.0	-1.61	24.76	1.88	-2.85	0.94	-27.98
		-27.98	-4.46	-9.87e-06	-6.68	371.0	-1.61	-5.14	-4.79	-2.85	-4.46	8.41
14	11	10.19	1.92	-1.71e-03	-29.90	0.0	-1.56	24.90	1.88	-2.85	0.96	-28.26
		-28.26	-4.47	-9.88e-06	-6.68	371.0	-1.56	-5.00	-4.80	-2.85	-4.47	8.66
14	12	4.91	1.48	-8.03e-04	-23.00	0.0	-0.12	15.94	2.47	-0.91	-0.21	-15.59
		-15.59	-3.44	-8.62e-06	-6.68	371.0	-0.12	-7.06	-4.21	-0.91	-3.44	0.89
14	13	6.63	1.63	-1.14e-03	-23.00	0.0	-0.99	18.04	2.23	-1.70	0.25	-19.60
		-19.60	-3.85	-9.06e-06	-6.68	371.0	-0.99	-4.96	-4.44	-1.70	-3.85	4.68
14	14	6.78	1.63	-1.17e-03	-23.00	0.0	-0.94	18.19	2.23	-1.70	0.26	-19.88
		-19.88	-3.87	-9.07e-06	-6.68	371.0	-0.94	-4.81	-4.45	-1.70	-3.87	4.93
14	15	7.67	2.43	-1.30e-03	-29.90	0.0	-0.48	22.39	4.15	-2.11	-0.44	-23.43
		-23.43	-5.68	-1.42e-05	-11.13	371.0	-0.48	-7.51	-6.98	-2.11	-5.68	4.18
14	16	7.73	2.44	-1.32e-03	-29.90	0.0	-0.46	22.47	4.15	-2.11	-0.43	-23.58
		-23.58	-5.69	-1.42e-05	-11.13	371.0	-0.46	-7.44	-6.98	-2.11	-5.69	4.30
14	17	9.93	2.57	-1.67e-03	-29.90	0.0	-1.30	24.64	3.91	-2.90	0.03	-27.72
		-27.72	-6.10	-1.46e-05	-11.13	371.0	-1.30	-5.26	-7.22	-2.90	-6.10	8.21
14	18	10.00	2.57	-1.68e-03	-29.90	0.0	-1.28	24.71	3.91	-2.90	0.04	-27.87
		-27.87	-6.11	-1.46e-05	-11.13	371.0	-1.28	-5.19	-7.22	-2.90	-6.11	8.34
14	19	4.77	2.23	-7.65e-04	-23.00	0.0	0.14	15.68	4.50	-0.96	-1.13	-15.06
		-15.06	-5.08	-1.36e-05	-11.13	371.0	0.14	-7.32	-6.63	-0.96	-5.08	0.45
14	20	4.81	2.23	-7.79e-04	-23.00	0.0	0.17	15.75	4.50	-0.96	-1.13	-15.20
		-15.20	-5.08	-1.36e-05	-11.13	371.0	0.17	-7.25	-6.63	-0.96	-5.08	0.58
14	21	6.53	2.36	-1.13e-03	-23.00	0.0	-0.68	17.92	4.26	-1.74	-0.66	-19.35
		-19.35	-5.50	-1.40e-05	-11.13	371.0	-0.68	-5.08	-6.87	-1.74	-5.50	4.49
14	22	6.59	2.36	-1.15e-03	-23.00	0.0	-0.66	18.00	4.26	-1.74	-0.66	-19.49
		-19.49	-5.50	-1.40e-05	-11.13	371.0	-0.66	-5.00	-6.87	-1.74	-5.50	4.61
14	23	21.47	5.67	-1.22e-03	-23.00	0.0	16.42	-0.31	-2.62	-1.87	5.67	21.47
		-22.35	-4.08	-1.06e-05	0.0	371.0	16.42	-23.31	-2.62	-1.87	-4.08	-22.35
14	24	20.82	5.33	-1.22e-03	-23.00	0.0	17.19	-0.02	-2.44	-1.79	5.33	20.82

		-21.91	-3.77	-1.02e-05	0.0	371.0	17.19	-23.02	-2.44	-1.79	-3.77	-21.91
14	25	30.67	1.17	-1.05e-03	-23.00	0.0	-19.49	35.82	0.93	-1.56	-2.29	-59.54
		-59.54	-2.29	5.85e-06	0.0	371.0	-19.49	12.81	0.93	-1.56	1.17	30.67
14	26	31.12	1.49	-1.07e-03	-23.00	0.0	-18.73	36.11	1.10	-1.47	-2.64	-60.19
		-60.19	-2.64	6.29e-06	0.0	371.0	-18.73	13.11	1.10	-1.47	1.49	31.12
14	27	21.92	5.85	-1.22e-03	-23.00	0.0	16.42	-0.50	-2.71	-1.86	5.85	21.92
		-22.62	-4.24	-1.08e-05	0.0	371.0	16.42	-23.50	-2.71	-1.86	-4.24	-22.62
14	28	20.37	5.15	-1.21e-03	-23.00	0.0	17.19	0.18	-2.35	-1.80	5.15	20.37
		-21.64	-3.60	-9.94e-06	0.0	371.0	17.19	-22.83	-2.35	-1.80	-3.60	-21.64
14	29	30.41	1.01	-1.05e-03	-23.00	0.0	-19.49	35.63	0.83	-1.55	-2.12	-59.09
		-59.09	-2.12	5.65e-06	0.0	371.0	-19.49	12.62	0.83	-1.55	1.01	30.41
14	30	31.38	1.65	-1.07e-03	-23.00	0.0	-18.73	36.30	1.20	-1.48	-2.82	-60.64
		-60.64	-2.82	6.50e-06	0.0	371.0	-18.73	13.30	1.20	-1.48	1.65	31.38
14	31	20.80	5.22	-1.21e-03	-23.00	0.0	16.42	-0.02	-2.39	-1.87	5.22	20.80
		-21.94	-3.68	-9.97e-06	0.0	371.0	16.42	-23.02	-2.39	-1.87	-3.68	-21.94
14	32	20.15	4.87	-1.21e-03	-23.00	0.0	17.18	0.28	-2.21	-1.78	4.87	20.15
		-21.50	-3.37	-9.54e-06	0.0	371.0	17.18	-22.73	-2.21	-1.78	-3.37	-21.50
14	33	30.26	0.78	-1.05e-03	-23.00	0.0	-19.49	35.53	0.69	-1.56	-1.84	-58.87
		-58.87	-1.84	5.26e-06	0.0	371.0	-19.49	12.52	0.69	-1.56	0.78	30.26
14	34	30.71	1.09	-1.07e-03	-23.00	0.0	-18.72	35.82	0.87	-1.47	-2.19	-59.52
		-59.52	-2.19	5.67e-06	0.0	371.0	-18.72	12.82	0.87	-1.47	1.09	30.71
14	35	21.25	5.40	-1.21e-03	-23.00	0.0	16.41	-0.21	-2.48	-1.86	5.40	21.25
		-22.21	-3.85	-1.02e-05	0.0	371.0	16.41	-23.21	-2.48	-1.86	-3.85	-22.21
14	36	19.70	4.69	-1.20e-03	-23.00	0.0	17.18	0.47	-2.12	-1.79	4.69	19.70
		-21.23	-3.21	-9.33e-06	0.0	371.0	17.18	-22.53	-2.12	-1.79	-3.21	-21.23
14	37	30.00	0.61	-1.05e-03	-23.00	0.0	-19.49	35.33	0.60	-1.55	-1.66	-58.42
		-58.42	-1.66	5.10e-06	0.0	371.0	-19.49	12.33	0.60	-1.55	0.61	30.00
14	38	30.97	1.26	-1.07e-03	-23.00	0.0	-18.72	36.01	0.96	-1.48	-2.37	-59.97
		-59.97	-2.37	5.88e-06	0.0	371.0	-18.72	13.01	0.96	-1.48	1.26	30.97
14	39	5.45	3.29	-1.08e-03	-23.00	0.0	2.96	11.99	-1.58	-1.86	3.29	-6.13
		-6.13	-2.61	-5.46e-06	0.0	371.0	2.96	-11.01	-1.58	-1.86	-2.61	-4.31
14	40	5.28	2.13	-1.16e-03	-23.00	0.0	5.51	12.97	-0.99	-1.57	2.13	-8.29
		-8.29	-1.56	-3.91e-06	0.0	371.0	5.51	-10.03	-0.99	-1.57	-1.56	-2.83
14	41	11.59	0.90	-1.04e-03	-23.00	0.0	-7.82	22.83	-0.52	-1.77	0.90	-30.43
		-30.43	-1.03	1.49e-06	0.0	371.0	-7.82	-0.17	-0.52	-1.77	-1.03	11.59
14	42	13.08	0.01	-1.12e-03	-23.00	0.0	-5.26	23.81	0.07	-1.48	-0.26	-32.59
		-32.59	-0.26	1.09e-06	0.0	371.0	-5.26	0.81	0.07	-1.48	0.01	13.08
14	43	5.41	3.15	-1.08e-03	-23.00	0.0	2.96	12.08	-1.52	-1.86	3.15	-6.33
		-6.33	-2.49	-5.27e-06	0.0	371.0	2.96	-10.92	-1.52	-1.86	-2.49	-4.19
14	44	5.26	2.00	-1.16e-03	-23.00	0.0	5.51	13.06	-0.92	-1.57	2.00	-8.49
		-8.49	-1.44	-3.71e-06	0.0	371.0	5.51	-9.94	-0.92	-1.57	-1.44	-2.71
14	45	11.47	1.03	-1.04e-03	-23.00	0.0	-7.82	22.74	-0.59	-1.77	1.03	-30.23
		-30.23	-1.15	1.58e-06	0.0	371.0	-7.82	-0.26	-0.59	-1.77	-1.15	11.47
14	46	12.96	-0.11	-1.12e-03	-23.00	0.0	-5.26	23.72	-2.43e-04	-1.48	-0.12	-32.39
		-32.39	-0.12	0.0	0.0	371.0	-5.26	0.72	-2.43e-04	-1.48	-0.11	12.96
14	47	5.76	3.88	-1.10e-03	-23.00	0.0	2.95	11.35	-1.89	-1.83	3.88	-4.63
		-5.19	-3.16	-6.23e-06	0.0	371.0	2.95	-11.65	-1.89	-1.83	-3.16	-5.19
14	48	5.12	1.54	-1.15e-03	-23.00	0.0	5.51	13.61	-0.68	-1.60	1.54	-9.79
		-9.79	-1.01	-3.20e-06	0.0	371.0	5.51	-9.39	-0.68	-1.60	-1.01	-1.95
14	49	10.76	1.49	-1.05e-03	-23.00	0.0	-7.82	22.19	-0.83	-1.74	1.49	-28.93
		-28.93	-1.58	1.99e-06	0.0	371.0	-7.82	-0.81	-0.83	-1.74	-1.58	10.72
14	50	13.95	0.57	-1.11e-03	-23.00	0.0	-5.26	24.45	0.38	-1.51	-0.85	-34.09
		-34.09	-0.85	1.73e-06	0.0	371.0	-5.26	1.45	0.38	-1.51	0.57	13.95
14	51	5.72	3.75	-1.10e-03	-23.00	0.0	2.95	11.44	-1.83	-1.83	3.75	-4.83
		-5.07	-3.04	-6.03e-06	0.0	371.0	2.95	-11.56	-1.83	-1.83	-3.04	-5.07
14	52	5.11	1.40	-1.15e-03	-23.00	0.0	5.51	13.70	-0.61	-1.60	1.40	-9.99
		-9.99	-0.89	-3.01e-06	0.0	371.0	5.51	-9.30	-0.61	-1.60	-0.89	-1.83
14	53	10.65	1.63	-1.05e-03	-23.00	0.0	-7.82	22.10	-0.90	-1.74	1.63	-28.73
		-28.73	-1.70	2.07e-06	0.0	371.0	-7.82	-0.90	-0.90	-1.74	-1.70	10.59
14	54	13.83	0.45	-1.11e-03	-23.00	0.0	-5.26	24.36	0.31	-1.51	-0.71	-33.89
		-33.89	-0.71	1.55e-06	0.0	371.0	-5.26	1.36	0.31	-1.51	0.45	13.83
14	55	5.89	1.38	-9.91e-04	-23.00	0.0	-0.92	17.26	-0.69	-1.45	1.38	-18.13
		-18.13	-1.18	-2.08e-06	0.0	371.0	-0.92	-5.74	-0.69	-1.45	-1.18	3.23
14	56	6.45	1.52	-1.10e-03	-23.00	0.0	-1.15	17.90	-0.76	-1.67	1.52	-19.36
		-19.36	-1.30	-2.26e-06	0.0	371.0	-1.15	-5.10	-0.76	-1.67	-1.30	4.38
15	1	27.73	1.15	-1.86e-04	-50.16	0.0	-0.29	44.11	3.00	-0.04	-1.35	-44.22
		-44.22	-2.62	-9.58e-06	-6.68	371.0	-0.29	-6.05	-3.68	-0.04	-2.62	26.38
15	2	28.23	1.15	-1.89e-04	-50.16	0.0	-0.18	44.37	3.00	-0.04	-1.34	-44.58
		-44.58	-2.62	-9.59e-06	-6.68	371.0	-0.18	-5.78	-3.68	-0.04	-2.62	27.00
15	3	42.02	1.21	-2.53e-04	-50.16	0.0	-1.04	51.60	2.88	-0.10	-1.09	-56.36
		-56.36	-2.81	-1.02e-05	-6.68	371.0	-1.04	1.44	-3.80	-0.10	-2.81	42.02
15	4	42.65	1.21	-2.56e-04	-50.16	0.0	-0.93	51.86	2.87	-0.10	-1.09	-56.72
		-56.72	-2.81	-1.03e-05	-6.68	371.0	-0.93	1.70	-3.80	-0.10	-2.81	42.65
15	5	16.06	1.09	-1.13e-04	-38.58	0.0	-0.53	30.28	3.12	7.47e-04	-1.60	-27.97
		-27.97	-2.42	-8.95e-06	-6.68	371.0	-0.53	-8.30	-3.56	7.47e-04	-2.42	12.80
15	6	16.49	1.09	-1.15e-04	-38.58	0.0	-0.43	30.55	3.12	7.92e-04	-1.60	-28.34
		-28.34	-2.42	-8.96e-06	-6.68	371.0	-0.43	-8.04	-3.56	7.92e-04	-2.42	13.42
15	7	28.44	1.15	-1.79e-04	-38.58	0.0	-1.28	37.77	3.00	-0.06	-1.35	-40.11
		-40.11	-2.61	-9.61e-06	-6.68	371.0	-1.28	-0.81	-3.68	-0.06	-2.61	28.44
15	8	29.07	1.15	-1.82e-04	-38.58	0.0	-1.18	38.04	3.00	-0.06	-1.34	-40.48
		-40.48	-2.62	-9.62e-06	-6.68	371.0	-1.18	-0.55	-3.68	-0.06	-2.62	29.07
15	9	28.73	1.15	-1.92e-04	-50.16	0.0	-0.08	44.64	2.99	-0.04	-1.34	-44.95
		-44.95	-2.62	-9.60e-06	-6.68	371.0	-0.08	-5.52	-3.68	-0.04	-2.62	27.62
15	10	37.33	1.19	-2.33e-04	-50.16	0.0	-0.81	49.35	2.91	-0.08	-1.17	-52.71
		-52.71	-2.75	-1.00e-05	-6.68	371.0	-0.81	-0.81	-3.77	-0.08	-2.75	37.33
15	11	38.57	1.19	-2.39e-04	-50.16	0.0	-0.60	49.88	2.91	-0.08	-1.16	-53.45
		-53.45	-2.75	-1.01e-05	-6.68	371.0	-0.60	-0.28	-3.77	-0.08	-2.75	38.57
15	12	16.93	1.09	-1.18e-04	-38.58	0.0	-0.32	30.81	3.12	8.36e-04	-1.60	-28.71
		-28.71	-2.43	-8.97e-06	-6.68	371.0	-0.32	-7.77	-3.56	8.36e-04	-2.43	14.04
15	13	24.18	1.13	-1.59e-04	-38.58	0.0	-1.06	35.52	3.03	-0.04	-1.42	-36.47
		-36.47	-2.56	-9.41e-06	-6.68	371.0	-1.06	-3.06	-3.64	-0.04	-2.56	23.75
15	14	25.30	1.13	-1.65e-04	-38.58	0.0	-0.85	36.06	3.03	-0.04	-1.42	-37.20
		-37.20	-2.56	-9.43e-06	-6.68	371.0	-0.85	-2.53	-3.65	-0.04	-2.56	24.99
15	15	27.17	1.81	-1.85e-04	-50.16	0.0	-0.90	43.43	5.20	-0.05	-2.68	-42.58
		-42.58	-4.03	-1.49e-05	-11.13	371.0	-0.90	-6.73	-5.93	-0.05	-4.03	25.50
15	16	27.67	1.81	-1.88e-04	-50.16	0.0	-0.80	43.70	5.20	-0.05	-2.67	-42.95

		-42.95	-4.03	-1.49e-05	-11.13	371.0	-0.80	-6.46	-5.93	-0.05	-4.03	26.12
15	17	36.48	1.86	-2.32e-04	-50.16	0.0	-1.43	48.67	5.12	-0.09	-2.50	-51.08
		-51.08	-4.16	-1.54e-05	-11.13	371.0	-1.43	-1.49	-6.01	-0.09	-4.16	36.45
15	18	37.08	1.86	-2.35e-04	-50.16	0.0	-1.32	48.94	5.11	-0.09	-2.49	-51.45
		-51.45	-4.17	-1.54e-05	-11.13	371.0	-1.32	-1.22	-6.02	-0.09	-4.17	37.08
15	19	15.78	1.78	-1.11e-04	-38.58	0.0	-1.15	29.60	5.32	-0.02	-2.93	-26.34
		-26.34	-3.83	-1.44e-05	-11.13	371.0	-1.15	-8.98	-5.81	-0.02	-3.83	11.92
15	20	16.15	1.78	-1.14e-04	-38.58	0.0	-1.04	29.87	5.32	-0.02	-2.93	-26.70
		-26.70	-3.84	-1.44e-05	-11.13	371.0	-1.04	-8.71	-5.81	-0.02	-3.84	12.55
15	21	23.49	1.80	-1.58e-04	-38.58	0.0	-1.67	34.85	5.24	-0.06	-2.75	-34.83
		-34.83	-3.97	-1.48e-05	-11.13	371.0	-1.67	-3.74	-5.89	-0.06	-3.97	22.87
15	22	24.02	1.80	-1.61e-04	-38.58	0.0	-1.57	35.11	5.24	-0.06	-2.75	-35.20
		-35.20	-3.97	-1.48e-05	-11.13	371.0	-1.57	-3.47	-5.89	-0.06	-3.97	23.50
15	23	247.31	1.60	-4.73e-04	-38.58	0.0	14.18	-88.79	-0.83	0.26	1.60	247.31
		-153.71	-1.47	-3.90e-06	0.0	371.0	14.18	-127.37	-0.83	0.26	-1.47	-153.71
15	24	242.63	1.43	-4.83e-04	-38.58	0.0	15.50	-86.74	-0.73	0.34	1.43	242.63
		-150.73	-1.30	-3.56e-06	0.0	371.0	15.50	-125.32	-0.73	0.34	-1.30	-150.73
15	25	197.68	0.48	1.89e-04	-38.58	0.0	-14.85	158.25	0.23	-0.38	-0.36	-317.82
		-317.82	-0.36	-1.56e-06	0.0	371.0	-14.85	119.66	0.23	-0.38	0.48	197.68
15	26	200.65	0.65	1.88e-04	-38.58	0.0	-13.53	160.30	0.32	-0.29	-0.53	-322.51
		-322.51	-0.53	-1.91e-06	0.0	371.0	-13.53	121.71	0.32	-0.29	0.65	200.65
15	27	237.55	1.34	-4.84e-04	-38.58	0.0	14.35	-84.58	-0.69	0.44	1.34	237.55
		-147.81	-1.21	-3.36e-06	0.0	371.0	14.35	-123.16	-0.69	0.44	-1.21	-147.81
15	28	252.39	1.69	-4.73e-04	-38.58	0.0	15.33	-90.95	-0.87	0.16	1.69	252.39
		-156.63	-1.55	-4.10e-06	0.0	371.0	15.33	-129.54	-0.87	0.16	-1.55	-156.63
15	29	203.57	0.74	1.90e-04	-38.58	0.0	-14.69	162.46	0.37	-0.20	-0.62	-327.59
		-327.59	-0.62	-2.07e-06	0.0	371.0	-14.69	123.87	0.37	-0.20	0.74	203.57
15	30	194.75	0.39	1.87e-04	-38.58	0.0	-13.70	156.08	0.18	-0.47	-0.27	-312.74
		-312.74	-0.27	-1.41e-06	0.0	371.0	-13.70	117.50	0.18	-0.47	0.39	194.75
15	31	240.22	1.48	-4.86e-04	-38.58	0.0	14.46	-85.78	-0.77	0.39	1.48	240.22
		-149.62	-1.38	-3.49e-06	0.0	371.0	14.46	-124.36	-0.77	0.39	-1.38	-149.62
15	32	235.54	1.31	-4.96e-04	-38.58	0.0	15.78	-83.73	-0.68	0.48	1.31	235.54
		-146.65	-1.21	-3.15e-06	0.0	371.0	15.78	-122.31	-0.68	0.48	-1.21	-146.65
15	33	193.59	0.39	1.90e-04	-38.58	0.0	-15.13	155.24	0.17	-0.51	-0.24	-310.74
		-310.74	-0.24	-1.59e-06	0.0	371.0	-15.13	116.65	0.17	-0.51	0.39	193.59
15	34	196.57	0.56	1.89e-04	-38.58	0.0	-13.81	157.29	0.26	-0.42	-0.41	-315.42
		-315.42	-0.41	-1.89e-06	0.0	371.0	-13.81	118.70	0.26	-0.42	0.56	196.57
15	35	230.46	1.22	-4.96e-04	-38.58	0.0	14.63	-81.57	-0.63	0.57	1.22	230.46
		-143.73	-1.12	-2.95e-06	0.0	371.0	14.63	-120.15	-0.63	0.57	-1.12	-143.73
15	36	245.30	1.57	-4.85e-04	-38.58	0.0	15.61	-87.94	-0.82	0.30	1.57	245.30
		-152.54	-1.46	-3.69e-06	0.0	371.0	15.61	-126.53	-0.82	0.30	-1.46	-152.54
15	37	199.49	0.65	1.91e-04	-38.58	0.0	-14.97	159.45	0.31	-0.33	-0.50	-320.50
		-320.50	-0.50	-2.05e-06	0.0	371.0	-14.97	120.86	0.31	-0.33	0.65	199.49
15	38	190.67	0.30	1.88e-04	-38.58	0.0	-13.98	153.07	0.12	-0.60	-0.15	-305.66
		-305.66	-0.15	-1.46e-06	0.0	371.0	-13.98	114.49	0.12	-0.60	0.30	190.67
15	39	54.97	1.11	-2.36e-04	-38.58	0.0	2.48	-4.72	-0.57	-0.07	1.11	54.97
		-34.19	-0.99	-2.89e-06	0.0	371.0	2.48	-43.30	-0.57	-0.07	-0.99	-34.19
15	40	39.59	0.54	-2.67e-04	-38.58	0.0	6.87	2.12	-0.26	0.23	0.54	39.37
		-24.28	-0.41	-1.74e-06	0.0	371.0	6.87	-36.47	-0.26	0.23	-0.41	-24.28
15	41	71.22	0.52	-4.89e-05	-38.58	0.0	-6.23	69.39	-0.25	-0.26	0.52	-114.56
		-114.56	-0.40	-1.68e-06	0.0	371.0	-6.23	30.81	-0.25	-0.26	-0.40	71.22
15	42	81.14	0.17	-7.65e-05	-38.58	0.0	-1.84	76.23	0.06	0.04	-0.05	-130.17
		-130.17	-0.05	-1.07e-06	0.0	371.0	-1.84	37.64	0.06	0.04	0.17	81.14
15	43	52.85	1.08	-2.40e-04	-38.58	0.0	2.57	-3.82	-0.55	-0.03	1.08	52.85
		-32.97	-0.96	-2.77e-06	0.0	371.0	2.57	-42.40	-0.55	-0.03	-0.96	-32.97
15	44	37.67	0.51	-2.71e-04	-38.58	0.0	6.96	3.02	-0.24	0.27	0.51	37.24
		-23.05	-0.39	-1.62e-06	0.0	371.0	6.96	-35.57	-0.24	0.27	-0.39	-23.05
15	45	70.00	0.56	-4.56e-05	-38.58	0.0	-6.31	68.49	-0.27	-0.30	0.56	-112.44
		-112.44	-0.43	-1.80e-06	0.0	371.0	-6.31	29.90	-0.27	-0.30	-0.43	70.00
15	46	79.91	0.14	-7.29e-05	-38.58	0.0	-1.92	75.32	0.04	-2.92e-03	-0.01	-128.05
		-128.05	-0.01	-1.11e-06	0.0	371.0	-1.92	36.74	0.04	-2.92e-03	0.14	79.91
15	47	26.61	0.24	-2.70e-04	-38.58	0.0	3.03	9.32	-0.10	0.54	0.24	22.43
		-14.54	-0.13	-1.14e-06	0.0	371.0	3.03	-29.26	-0.10	0.54	-0.13	-14.54
15	48	71.91	1.41	-2.33e-04	-38.58	0.0	6.32	-11.92	-0.72	-0.38	1.41	71.91
		-43.93	-1.27	-3.54e-06	0.0	371.0	6.32	-50.51	-0.72	-0.38	-1.27	-43.93
15	49	90.88	0.46	-7.94e-05	-38.58	0.0	-5.67	83.43	0.22	0.35	-0.34	-147.11
		-147.11	-0.34	-1.49e-06	0.0	371.0	-5.67	44.85	0.22	0.35	0.46	90.88
15	50	61.48	0.82	-4.65e-05	-38.58	0.0	-2.39	62.19	-0.41	-0.57	0.82	-97.63
		-97.63	-0.69	-2.33e-06	0.0	371.0	-2.39	23.60	-0.41	-0.57	-0.69	61.48
15	51	25.32	0.21	-2.74e-04	-38.58	0.0	3.12	10.22	-0.08	0.58	0.21	20.31
		-13.31	-0.10	-1.02e-06	0.0	371.0	3.12	-28.36	-0.08	0.58	-0.10	-13.31
15	52	69.78	1.37	-2.37e-04	-38.58	0.0	6.41	-11.02	-0.71	-0.34	1.37	69.78
		-42.71	-1.25	-3.42e-06	0.0	371.0	6.41	-49.61	-0.71	-0.34	-1.25	-42.71
15	53	89.65	0.43	-7.58e-05	-38.58	0.0	-5.76	82.53	0.20	0.31	-0.31	-144.98
		-144.98	-0.31	-1.49e-06	0.0	371.0	-5.76	43.94	0.20	0.31	0.43	89.65
15	54	60.26	0.86	-4.32e-05	-38.58	0.0	-2.47	61.28	-0.42	-0.61	0.86	-95.51
		-95.51	-0.72	-2.45e-06	0.0	371.0	-2.47	22.70	-0.42	-0.61	-0.72	60.26
15	55	21.23	0.48	-1.41e-04	-38.58	0.0	0.47	34.26	-0.23	-4.99e-03	0.48	-35.17
		-35.17	-0.37	-1.54e-06	0.0	371.0	0.47	-4.33	-0.23	-4.99e-03	-0.37	20.34
15	56	23.85	0.53	-1.54e-04	-38.58	0.0	0.32	35.75	-0.25	-0.02	0.53	-37.60
		-37.60	-0.41	-1.71e-06	0.0	371.0	0.32	-2.83	-0.25	-0.02	-0.41	23.47
16	1	34.52	1.13	8.73e-05	-50.16	0.0	1.63	34.96	3.30	0.35	-1.88	-10.67
		-10.67	-2.05	-9.73e-06	-6.68	371.0	1.63	-15.20	-3.38	0.35	-2.05	25.99
16	2	34.90	1.13	8.94e-05	-50.16	0.0	1.77	34.99	3.30	0.35	-1.88	-10.36
		-10.36	-2.04	-9.74e-06	-6.68	371.0	1.77	-15.17	-3.38	0.35	-2.04	26.39
16	3	47.78	1.17	1.23e-04	-50.16	0.0	1.68	39.21	3.29	0.46	-1.84	-8.99
		-8.99	-2.01	-1.04e-05	-6.68	371.0	1.68	-10.95	-3.39	0.46	-2.01	43.43
16	4	48.16	1.18	1.25e-04	-50.16	0.0	1.81	39.23	3.29	0.47	-1.84	-8.68
		-8.68	-2.01	-1.04e-05	-6.68	371.0	1.81	-10.93	-3.38	0.47	-2.01	43.83
16	5	20.96	1.09	5.24e-05	-38.58	0.0	0.51	24.81	3.30	0.20	-1.94	-8.62
		-8.62	-2.07	-9.08e-06	-6.68	371.0	0.51	-13.77	-3.38	0.20	-2.07	11.87
16	6	21.33	1.09	5.45e-05	-38.58	0.0	0.64	24.84	3.30	0.20	-1.94	-8.31
		-8.31	-2.07	-9.09e-06	-6.68	371.0	0.64	-13.74	-3.38	0.20	-2.07	12.27
16	7	33.67	1.13	8.84e-05	-38.58	0.0	0.55	29.06	3.30	0.31	-1.89	-6.94
		-6.94	-2.04	-9.74e-06	-6.68	371.0	0.55	-9.52	-3.38	0.31	-2.04	29.31
16	8	34.05	1.13	9.05e-05	-38.58	0.0	0.69	29.09	3.30	0.32	-1.89	-6.63

		-6.63	-2.03	-9.76e-06	-6.68	371.0	0.69	-9.50	-3.38	0.32	-2.03	29.71
16	9	35.27	1.13	9.15e-05	-50.16	0.0	1.91	35.01	3.30	0.35	-1.88	-10.06
		-10.06	-2.04	-9.75e-06	-6.68	371.0	1.91	-15.15	-3.38	0.35	-2.04	26.79
16	10	43.72	1.16	1.12e-04	-50.16	0.0	1.66	37.93	3.29	0.43	-1.85	-9.49
		-9.49	-2.02	-1.02e-05	-6.68	371.0	1.66	-12.23	-3.38	0.43	-2.02	38.20
16	11	44.48	1.16	1.17e-04	-50.16	0.0	1.94	37.98	3.29	0.44	-1.85	-8.88
		-8.88	-2.02	-1.02e-05	-6.68	371.0	1.94	-12.17	-3.38	0.44	-2.02	39.00
16	12	21.69	1.09	5.67e-05	-38.58	0.0	0.78	24.87	3.30	0.21	-1.94	-8.01
		-8.01	-2.07	-9.10e-06	-6.68	371.0	0.78	-13.72	-3.38	0.21	-2.07	12.67
16	13	29.62	1.12	7.76e-05	-38.58	0.0	0.54	27.79	3.30	0.28	-1.90	-7.44
		-7.44	-2.05	-9.55e-06	-6.68	371.0	0.54	-10.80	-3.38	0.28	-2.05	24.08
16	14	30.37	1.12	8.18e-05	-38.58	0.0	0.81	27.84	3.30	0.29	-1.90	-6.83
		-6.83	-2.04	-9.57e-06	-6.68	371.0	0.81	-10.74	-3.38	0.29	-2.04	24.88
16	15	34.42	1.82	9.32e-05	-50.16	0.0	0.93	34.39	5.51	0.33	-3.23	-9.33
		-9.33	-3.45	-1.51e-05	-11.13	371.0	0.93	-15.77	-5.62	0.33	-3.45	25.23
16	16	34.79	1.82	9.53e-05	-50.16	0.0	1.07	34.42	5.51	0.34	-3.23	-9.02
		-9.02	-3.45	-1.51e-05	-11.13	371.0	1.07	-15.74	-5.62	0.34	-3.45	25.63
16	17	43.49	1.85	1.18e-04	-50.16	0.0	0.96	37.37	5.51	0.41	-3.20	-8.15
		-8.15	-3.42	-1.56e-05	-11.13	371.0	0.96	-12.79	-5.62	0.41	-3.42	37.44
16	18	43.86	1.85	1.20e-04	-50.16	0.0	1.10	37.39	5.51	0.42	-3.20	-7.85
		-7.85	-3.42	-1.56e-05	-11.13	371.0	1.10	-12.77	-5.62	0.42	-3.42	37.84
16	19	20.99	1.78	5.84e-05	-38.58	0.0	-0.20	24.25	5.51	0.18	-3.28	-7.28
		-7.28	-3.48	-1.45e-05	-11.13	371.0	-0.20	-14.34	-5.62	0.18	-3.48	11.11
16	20	21.35	1.78	6.05e-05	-38.58	0.0	-0.06	24.27	5.51	0.19	-3.28	-6.97
		-6.97	-3.47	-1.45e-05	-11.13	371.0	-0.06	-14.31	-5.62	0.19	-3.47	11.51
16	21	29.50	1.81	8.35e-05	-38.58	0.0	-0.17	27.22	5.51	0.26	-3.25	-6.10
		-6.10	-3.45	-1.49e-05	-11.13	371.0	-0.17	-11.36	-5.62	0.26	-3.45	23.32
16	22	29.87	1.81	8.56e-05	-38.58	0.0	-0.03	27.25	5.51	0.27	-3.25	-5.80
		-5.80	-3.45	-1.50e-05	-11.13	371.0	-0.03	-11.34	-5.62	0.27	-3.45	23.72
16	23	181.72	1.20	9.42e-05	-38.58	0.0	8.10	-73.40	-0.60	0.37	1.20	181.72
		-162.33	-1.04	-3.21e-06	0.0	371.0	8.10	-111.99	-0.60	0.37	-1.04	-162.33
16	24	178.40	1.02	7.83e-05	-38.58	0.0	9.47	-71.71	-0.51	0.47	1.02	178.40
		-159.09	-0.86	-2.87e-06	0.0	371.0	9.47	-110.29	-0.51	0.47	-0.86	-159.09
16	25	205.71	0.96	6.03e-05	-38.58	0.0	-5.45	128.00	0.47	0.13	-0.79	-197.45
		-197.45	-0.79	-2.81e-06	0.0	371.0	-5.45	89.41	0.47	0.13	0.96	205.71
16	26	208.95	1.14	-4.46e-05	-38.58	0.0	-4.08	129.69	0.57	0.23	-0.96	-200.78
		-200.78	-0.96	-3.19e-06	0.0	371.0	-4.08	91.11	0.57	0.23	1.14	208.95
16	27	174.84	0.93	7.94e-05	-38.58	0.0	8.22	-69.85	-0.46	0.58	0.93	174.84
		-155.87	-0.77	-2.71e-06	0.0	371.0	8.22	-108.44	-0.46	0.58	-0.77	-155.87
16	28	185.27	1.28	9.30e-05	-38.58	0.0	9.35	-75.26	-0.65	0.25	1.28	185.27
		-165.55	-1.12	-3.37e-06	0.0	371.0	9.35	-113.84	-0.65	0.25	-1.12	-165.55
16	29	212.17	1.23	4.54e-05	-38.58	0.0	-5.33	131.55	0.61	0.34	-1.05	-204.33
		-204.33	-1.05	-3.38e-06	0.0	371.0	-5.33	92.96	0.61	0.34	1.23	212.17
16	30	202.49	0.87	5.86e-05	-38.58	0.0	-4.20	126.14	0.42	0.02	-0.70	-193.90
		-193.90	-0.70	-2.63e-06	0.0	371.0	-4.20	87.56	0.42	0.02	0.87	202.49
16	31	176.60	1.14	6.68e-05	-38.58	0.0	8.25	-70.83	-0.57	0.46	1.14	176.60
		-157.90	-0.99	-3.08e-06	0.0	371.0	8.25	-109.41	-0.57	0.46	-0.99	-157.90
16	32	173.28	0.97	-6.48e-05	-38.58	0.0	9.62	-69.13	-0.48	0.56	0.97	173.28
		-154.65	-0.81	-2.75e-06	0.0	371.0	9.62	-107.72	-0.48	0.56	-0.81	-154.65
16	33	201.27	0.91	8.96e-05	-38.58	0.0	-5.61	125.42	0.44	0.04	-0.73	-192.33
		-192.33	-0.73	-2.74e-06	0.0	371.0	-5.61	86.84	0.44	0.04	0.91	201.27
16	34	204.52	1.09	7.31e-05	-38.58	0.0	-4.24	127.11	0.54	0.14	-0.91	-195.65
		-195.65	-0.91	-3.11e-06	0.0	371.0	-4.24	88.53	0.54	0.14	1.09	204.52
16	35	169.72	0.88	-6.33e-05	-38.58	0.0	8.37	-67.28	-0.43	0.68	0.88	169.72
		-151.43	-0.72	-2.58e-06	0.0	371.0	8.37	-105.86	-0.43	0.68	-0.72	-151.43
16	36	180.15	1.23	6.60e-05	-38.58	0.0	9.50	-72.68	-0.62	0.35	1.23	180.15
		-161.12	-1.08	-3.24e-06	0.0	371.0	9.50	-111.27	-0.62	0.35	-1.08	-161.12
16	37	207.74	1.18	7.47e-05	-38.58	0.0	-5.49	128.97	0.59	0.25	-0.99	-199.21
		-199.21	-0.99	-3.30e-06	0.0	371.0	-5.49	90.39	0.59	0.25	1.18	207.74
16	38	198.05	0.82	8.80e-05	-38.58	0.0	-4.36	123.57	0.40	-0.08	-0.65	-188.78
		-188.78	-0.65	-2.55e-06	0.0	371.0	-4.36	84.98	0.40	-0.08	0.82	198.05
16	39	52.88	0.71	9.67e-05	-38.58	0.0	1.76	-4.89	-0.34	0.17	0.71	52.88
		-37.30	-0.55	-2.23e-06	0.0	371.0	1.76	-43.47	-0.34	0.17	-0.55	-37.30
16	40	41.81	0.12	4.17e-05	-38.58	0.0	6.32	0.76	-0.02	0.50	0.12	41.81
		-26.49	0.05	-1.38e-06	0.0	371.0	6.32	-37.83	-0.02	0.50	0.05	-26.49
16	41	73.11	0.11	8.88e-05	-38.58	0.0	-2.30	55.53	-0.02	0.10	0.11	-60.87
		-60.87	0.05	-1.32e-06	0.0	371.0	-2.30	16.95	-0.02	0.10	0.05	73.11
16	42	83.92	0.65	3.38e-05	-38.58	0.0	2.26	61.18	0.30	0.43	-0.47	-71.94
		-71.94	-0.47	-2.19e-06	0.0	371.0	2.26	22.59	0.30	0.43	0.65	83.92
16	43	51.35	0.69	8.79e-05	-38.58	0.0	1.81	-4.12	-0.33	0.20	0.69	51.35
		-35.97	-0.53	-2.19e-06	0.0	371.0	1.81	-42.70	-0.33	0.20	-0.53	-35.97
16	44	40.40	0.11	-3.39e-05	-38.58	0.0	6.37	1.53	-0.01	0.53	0.11	40.27
		-25.16	0.06	-1.37e-06	0.0	371.0	6.37	-37.06	-0.01	0.53	0.06	-25.16
16	45	71.78	0.13	9.76e-05	-38.58	0.0	-2.35	54.76	-0.02	0.07	0.13	-59.33
		-59.33	0.04	-1.34e-06	0.0	371.0	-2.35	16.17	-0.02	0.07	0.04	71.78
16	46	82.59	0.63	4.26e-05	-38.58	0.0	2.21	60.40	0.29	0.40	-0.46	-70.41
		-70.41	-0.46	-2.17e-06	0.0	371.0	2.21	21.82	0.29	0.40	0.63	82.59
16	47	32.30	0.34	4.71e-05	-38.58	0.0	2.16	6.94	0.14	0.88	-0.16	29.97
		-15.76	-0.16	-1.67e-06	0.0	371.0	2.16	-31.64	0.14	0.88	0.34	-15.76
16	48	64.72	0.99	9.13e-05	-38.58	0.0	5.92	-11.07	-0.49	-0.21	0.99	64.72
		-48.04	-0.84	-2.77e-06	0.0	371.0	5.92	-49.66	-0.49	-0.21	-0.84	-48.04
16	49	94.66	0.94	3.91e-05	-38.58	0.0	-1.91	67.36	0.46	0.81	-0.76	-83.78
		-83.78	-0.76	-2.82e-06	0.0	371.0	-1.91	28.78	0.46	0.81	0.94	94.66
16	50	62.38	0.40	8.34e-05	-38.58	0.0	1.86	49.35	-0.17	-0.28	0.40	-49.03
		-49.03	-0.24	-1.63e-06	0.0	371.0	1.86	10.76	-0.17	-0.28	-0.24	62.38
16	51	31.30	0.36	3.83e-05	-38.58	0.0	2.20	7.71	0.14	0.91	-0.18	28.43
		-14.43	-0.18	-1.69e-06	0.0	371.0	2.20	-30.87	0.14	0.91	0.36	-14.43
16	52	63.19	0.97	8.25e-05	-38.58	0.0	5.97	-10.30	-0.48	-0.18	0.97	63.19
		-46.70	-0.82	-2.73e-06	0.0	371.0	5.97	-48.88	-0.48	-0.18	-0.82	-46.70
16	53	93.32	0.93	4.79e-05	-38.58	0.0	-1.95	66.59	0.45	0.78	-0.74	-82.24
		-82.24	-0.74	-2.80e-06	0.0	371.0	-1.95	28.00	0.45	0.78	0.93	93.32
16	54	61.05	0.41	9.22e-05	-38.58	0.0	1.81	48.57	-0.18	-0.31	0.41	-47.49
		-47.49	-0.25	-1.67e-06	0.0	371.0	1.81	9.99	-0.18	-0.31	-0.25	61.05
16	55	25.92	0.11	5.80e-05	-38.58	0.0	2.00	27.29	-0.02	0.28	0.11	-9.86
		-9.86	0.04	-1.22e-06	0.0	371.0	2.00	-11.29	-0.02	0.28	0.04	19.82
16	56	28.52	0.12	6.52e-05	-38.58	0.0	2.01	28.14	-0.02	0.30	0.12	-9.53

		-9.53	0.05	-1.35e-06	0.0	371.0	2.01	-10.44	-0.02	0.30	0.05	23.31
17	1	70.70	1.29	6.50e-04	-50.16	0.0	4.03	38.95	3.78	3.18	-2.69	14.65
		14.65	-2.69	-1.16e-05	-6.68	371.0	4.03	-11.21	-2.90	3.18	-1.05	66.12
17	2	71.05	1.29	6.58e-04	-50.16	0.0	4.15	38.91	3.78	3.20	-2.69	15.11
		15.11	-2.69	-1.16e-05	-6.68	371.0	4.15	-11.24	-2.89	3.20	-1.04	66.44
17	3	94.85	1.39	9.06e-04	-50.16	0.0	5.14	42.34	3.95	4.58	-2.93	28.64
		28.64	-2.93	-1.28e-05	-6.68	371.0	5.14	-7.82	-2.73	4.58	-0.67	92.67
17	4	95.19	1.39	9.15e-04	-50.16	0.0	5.26	42.30	3.95	4.59	-2.93	29.11
		29.11	-2.93	-1.28e-05	-6.68	371.0	5.26	-7.86	-2.73	4.59	-0.67	92.99
17	5	43.23	1.18	3.88e-04	-38.58	0.0	1.94	28.01	3.61	1.63	-2.44	5.55
		5.55	-2.44	-1.03e-05	-6.68	371.0	1.94	-10.58	-3.06	1.63	-1.42	37.89
17	6	43.58	1.18	3.96e-04	-38.58	0.0	2.06	27.97	3.62	1.64	-2.45	6.02
		6.02	-2.45	-1.03e-05	-6.68	371.0	2.06	-10.62	-3.06	1.64	-1.42	38.21
17	7	66.93	1.28	6.45e-04	-38.58	0.0	3.05	31.39	3.78	3.03	-2.69	19.55
		19.55	-2.69	-1.15e-05	-6.68	371.0	3.05	-7.19	-2.90	3.03	-1.05	64.44
17	8	67.28	1.28	6.53e-04	-38.58	0.0	3.17	31.35	3.78	3.04	-2.69	20.02
		20.02	-2.69	-1.15e-05	-6.68	371.0	3.17	-7.23	-2.90	3.04	-1.05	64.76
17	9	71.41	1.29	6.66e-04	-50.16	0.0	4.27	38.88	3.79	3.21	-2.69	15.58
		15.58	-2.69	-1.16e-05	-6.68	371.0	4.27	-11.28	-2.89	3.21	-1.04	66.76
17	10	87.58	1.36	8.29e-04	-50.16	0.0	4.81	41.32	3.90	4.16	-2.86	24.44
		24.44	-2.86	-1.24e-05	-6.68	371.0	4.81	-8.84	-2.78	4.16	-0.79	84.71
17	11	88.28	1.36	8.46e-04	-50.16	0.0	5.05	41.24	3.90	4.19	-2.86	25.38
		25.38	-2.86	-1.24e-05	-6.68	371.0	5.05	-8.91	-2.78	4.19	-0.78	85.35
17	12	43.94	1.18	4.05e-04	-38.58	0.0	2.18	27.93	3.62	1.65	-2.45	6.49
		6.49	-2.45	-1.03e-05	-6.68	371.0	2.18	-10.65	-3.06	1.65	-1.41	38.53
17	13	59.67	1.25	5.68e-04	-38.58	0.0	2.71	30.38	3.73	2.61	-2.61	15.35
		15.35	-2.61	-1.11e-05	-6.68	371.0	2.71	-8.21	-2.95	2.61	-1.16	56.48
17	14	60.37	1.25	5.84e-04	-38.58	0.0	2.96	30.30	3.73	2.63	-2.62	16.28
		16.28	-2.62	-1.11e-05	-6.68	371.0	2.96	-8.29	-2.94	2.63	-1.15	57.12
17	15	68.93	1.95	6.56e-04	-50.16	0.0	3.26	37.66	6.01	3.21	-4.06	16.47
		16.47	-4.06	-1.70e-05	-11.13	371.0	3.26	-12.50	-5.12	3.21	-2.40	63.15
17	16	69.29	1.96	6.65e-04	-50.16	0.0	3.39	37.62	6.01	3.22	-4.06	16.94
		16.94	-4.06	-1.70e-05	-11.13	371.0	3.39	-12.54	-5.12	3.22	-2.40	63.47
17	17	85.52	2.03	8.36e-04	-50.16	0.0	4.04	40.03	6.13	4.19	-4.23	26.27
		26.27	-4.23	-1.78e-05	-11.13	371.0	4.04	-10.13	-5.00	4.19	-2.14	81.74
17	18	85.86	2.03	8.44e-04	-50.16	0.0	4.16	39.99	6.13	4.20	-4.23	26.74
		26.74	-4.23	-1.78e-05	-11.13	371.0	4.16	-10.17	-5.00	4.20	-2.14	82.06
17	19	41.69	1.86	3.95e-04	-38.58	0.0	1.17	26.72	5.84	1.66	-3.82	7.38
		7.38	-3.82	-1.58e-05	-11.13	371.0	1.17	-11.87	-5.29	1.66	-2.78	34.92
17	20	42.06	1.86	4.03e-04	-38.58	0.0	1.29	26.68	5.85	1.67	-3.82	7.85
		7.85	-3.82	-1.58e-05	-11.13	371.0	1.29	-11.91	-5.28	1.67	-2.78	35.25
17	21	57.85	1.92	5.75e-04	-38.58	0.0	1.95	29.09	5.96	2.63	-3.99	17.18
		17.18	-3.99	-1.65e-05	-11.13	371.0	1.95	-9.50	-5.17	2.63	-2.52	53.51
17	22	58.21	1.92	5.83e-04	-38.58	0.0	2.07	29.05	5.96	2.65	-3.99	17.65
		17.65	-3.99	-1.65e-05	-11.13	371.0	2.07	-9.54	-5.17	2.65	-2.52	53.83
17	23	197.81	0.58	4.40e-04	-38.58	0.0	2.06	-78.92	-0.23	2.69	0.58	197.81
		-166.92	-0.29	-2.78e-06	0.0	371.0	2.06	-117.51	-0.23	2.69	-0.29	-166.92
17	24	193.87	0.39	4.19e-04	-38.58	0.0	3.78	-76.21	-0.13	2.80	0.39	193.87
		-160.46	-0.09	-2.57e-06	0.0	371.0	3.78	-114.80	-0.13	2.80	-0.09	-160.46
17	25	276.46	1.72	6.37e-04	-38.58	0.0	4.40	140.08	0.85	2.38	-1.42	-171.65
		-171.65	-1.42	-4.97e-06	0.0	371.0	4.40	101.49	0.85	2.38	1.72	276.46
17	26	282.92	1.92	6.17e-04	-38.58	0.0	6.12	142.78	0.95	2.48	-1.61	-175.59
		-175.59	-1.61	-5.41e-06	0.0	371.0	6.12	104.20	0.95	2.48	1.92	282.92
17	27	200.94	0.28	4.32e-04	-38.58	0.0	2.19	-81.25	-0.07	2.90	0.28	200.94
		-172.38	0.03	-2.59e-06	0.0	371.0	2.19	-119.83	-0.07	2.90	0.03	-172.38
17	28	190.74	0.68	4.27e-04	-38.58	0.0	3.65	-73.89	-0.29	2.59	0.68	190.74
		-155.00	-0.41	-2.86e-06	0.0	371.0	3.65	-112.47	-0.29	2.59	-0.41	-155.00
17	29	271.00	2.04	6.29e-04	-38.58	0.0	4.52	137.75	1.01	2.59	-1.72	-168.52
		-168.52	-1.72	-5.74e-06	0.0	371.0	4.52	99.16	1.01	2.59	2.04	271.00
17	30	288.38	1.60	6.24e-04	-38.58	0.0	5.99	145.11	0.78	2.27	-1.32	-178.72
		-178.72	-1.32	-4.64e-06	0.0	371.0	5.99	106.53	0.78	2.27	1.60	288.38
17	31	192.57	0.51	4.32e-04	-38.58	0.0	2.48	-74.97	-0.19	2.82	0.51	192.57
		-157.50	-0.19	-2.87e-06	0.0	371.0	2.48	-113.55	-0.19	2.82	-0.19	-157.50
17	32	188.64	0.32	4.12e-04	-38.58	0.0	4.20	-72.26	-0.08	2.92	0.32	188.64
		-151.04	9.88e-03	-2.72e-06	0.0	371.0	4.20	-110.85	-0.08	2.92	9.88e-03	-151.04
17	33	267.03	1.62	6.45e-04	-38.58	0.0	3.97	136.12	0.80	2.25	-1.35	-166.41
		-166.41	-1.35	-4.62e-06	0.0	371.0	3.97	97.54	0.80	2.25	1.62	267.03
17	34	273.50	1.82	6.24e-04	-38.58	0.0	5.69	138.83	0.90	2.36	-1.54	-170.35
		-170.35	-1.54	-5.06e-06	0.0	371.0	5.69	100.25	0.90	2.36	1.82	273.50
17	35	195.71	0.21	4.25e-04	-38.58	0.0	2.61	-77.30	-0.02	3.03	0.21	195.71
		-162.96	0.13	-2.79e-06	0.0	371.0	2.61	-115.88	-0.02	3.03	0.13	-162.96
17	36	185.51	0.61	4.20e-04	-38.58	0.0	4.07	-69.93	-0.25	2.71	0.61	185.51
		-145.58	-0.31	-2.92e-06	0.0	371.0	4.07	-108.52	-0.25	2.71	-0.31	-145.58
17	37	261.58	1.94	6.37e-04	-38.58	0.0	4.10	133.79	0.97	2.46	-1.65	-163.28
		-163.28	-1.65	-5.38e-06	0.0	371.0	4.10	95.21	0.97	2.46	1.94	261.58
17	38	278.96	1.50	6.32e-04	-38.58	0.0	5.56	141.16	0.74	2.15	-1.24	-173.48
		-173.48	-1.24	-4.29e-06	0.0	371.0	5.56	102.57	0.74	2.15	1.50	278.96
17	39	73.09	0.18	5.32e-04	-38.58	0.0	0.87	-5.43	0.02	2.46	0.10	73.09
		-19.28	0.10	-2.30e-06	0.0	371.0	0.87	-44.02	0.02	2.46	0.18	-19.28
17	40	60.59	0.84	4.65e-04	-38.58	0.0	6.60	3.59	0.37	2.81	-0.53	59.97
		2.27	-0.53	-3.35e-06	0.0	371.0	6.60	-34.99	0.37	2.81	0.84	2.27
17	41	113.73	0.79	5.92e-04	-38.58	0.0	1.57	60.27	0.35	2.37	-0.50	-37.75
		-37.75	-0.50	-3.10e-06	0.0	371.0	1.57	21.68	0.35	2.37	0.79	113.73
17	42	135.28	1.44	5.24e-04	-38.58	0.0	7.30	69.29	0.69	2.72	-1.13	-50.87
		-50.87	-1.13	-4.49e-06	0.0	371.0	7.30	30.71	0.69	2.72	1.44	135.28
17	43	71.52	0.21	5.30e-04	-38.58	0.0	1.00	-4.25	0.04	2.50	0.08	71.52
		-16.46	0.08	-2.38e-06	0.0	371.0	1.00	-42.83	0.04	2.50	0.21	-16.46
17	44	59.56	0.87	4.63e-04	-38.58	0.0	6.73	4.78	0.38	2.85	-0.55	58.40
		5.09	-0.55	-3.45e-06	0.0	371.0	6.73	-33.81	0.38	2.85	0.87	5.09
17	45	110.91	0.76	5.94e-04	-38.58	0.0	1.45	59.08	0.33	2.33	-0.48	-36.18
		-36.18	-0.48	-3.00e-06	0.0	371.0	1.45	20.50	0.33	2.33	0.76	110.91
17	46	132.45	1.41	5.26e-04	-38.58	0.0	7.17	68.11	0.68	2.68	-1.11	-49.30
		-49.30	-1.11	-4.39e-06	0.0	371.0	7.17	29.52	0.68	2.68	1.41	132.45
17	47	83.53	1.25	5.07e-04	-38.58	0.0	1.30	-13.19	0.58	3.17	-0.89	83.53
		-37.48	-0.89	-4.38e-06	0.0	371.0	1.30	-51.78	0.58	3.17	1.25	-37.48
17	48	55.82	0.45	4.90e-04	-38.58	0.0	6.17	11.36	-0.18	2.11	0.45	49.53

		20.46	-0.22	-2.19e-06	0.0	371.0	6.17	-27.23	-0.18	2.11	-0.22	20.46
17	49	95.54	1.85	5.66e-04	-38.58	0.0	2.00	52.51	0.90	3.07	-1.49	-27.31
		-27.31	-1.49	-5.58e-06	0.0	371.0	2.00	13.92	0.90	3.07	1.85	95.54
17	50	153.47	0.38	5.50e-04	-38.58	0.0	6.87	77.05	0.14	2.01	-0.15	-61.31
		-61.31	-0.15	-2.09e-06	0.0	371.0	6.87	38.47	0.14	2.01	0.38	153.47
17	51	81.96	1.28	5.05e-04	-38.58	0.0	1.43	-12.01	0.59	3.20	-0.91	81.96
		-34.65	-0.91	-4.48e-06	0.0	371.0	1.43	-50.59	0.59	3.20	1.28	-34.65
17	52	55.63	0.43	4.88e-04	-38.58	0.0	6.30	12.54	-0.17	2.14	0.43	47.96
		23.29	-0.19	-2.21e-06	0.0	371.0	6.30	-26.04	-0.17	2.14	-0.19	23.29
17	53	92.71	1.82	5.68e-04	-38.58	0.0	1.87	51.32	0.89	3.03	-1.46	-25.74
		-25.74	-1.46	-5.48e-06	0.0	371.0	1.87	12.74	0.89	3.03	1.82	92.71
17	54	150.65	0.35	5.52e-04	-38.58	0.0	6.75	75.87	0.13	1.97	-0.13	-59.74
		-59.74	-0.13	-1.99e-06	0.0	371.0	6.75	37.28	0.13	1.97	0.35	150.65
17	55	55.27	0.74	4.77e-04	-38.58	0.0	3.86	31.25	0.33	2.31	-0.47	8.31
		8.31	-0.47	-2.94e-06	0.0	371.0	3.86	-7.33	0.33	2.31	0.74	52.69
17	56	60.11	0.81	5.28e-04	-38.58	0.0	4.09	31.93	0.36	2.59	-0.52	11.11
		11.11	-0.52	-3.22e-06	0.0	371.0	4.09	-6.65	0.36	2.59	0.81	58.00
18	1	110.83	1.72	1.57e-03	-50.16	0.0	8.57	-22.33	4.56	11.39	-4.04	110.83
		-65.07	-4.04	-1.42e-05	-6.68	371.0	8.57	-72.49	-2.12	11.39	0.47	-65.07
18	2	111.65	1.72	1.59e-03	-50.16	0.0	8.63	-22.71	4.56	11.39	-4.05	111.65
		-65.64	-4.05	-1.42e-05	-6.68	371.0	8.63	-72.87	-2.12	11.39	0.48	-65.64
18	3	154.49	1.98	2.15e-03	-50.16	0.0	10.41	-39.61	4.86	14.68	-4.59	154.49
		-85.51	-4.59	-1.53e-05	-6.68	371.0	10.41	-89.77	-1.81	14.68	1.07	-85.51
18	4	155.30	1.98	2.17e-03	-50.16	0.0	10.47	-39.98	4.87	14.68	-4.59	155.30
		-86.08	-4.59	-1.53e-05	-6.68	371.0	10.47	-90.14	-1.81	14.68	1.07	-86.08
18	5	65.19	1.51	9.48e-04	-38.58	0.0	6.17	-9.48	4.24	6.81	-3.48	65.19
		-41.55	-3.48	-1.30e-05	-6.68	371.0	6.17	-48.06	-2.44	6.81	-0.15	-41.55
18	6	66.00	1.51	9.62e-04	-38.58	0.0	6.23	-9.85	4.24	6.80	-3.48	66.00
		-42.12	-3.48	-1.31e-05	-6.68	371.0	6.23	-48.44	-2.44	6.80	-0.14	-42.12
18	7	108.85	1.71	1.53e-03	-38.58	0.0	8.01	-26.76	4.54	10.09	-4.02	108.85
		-62.00	-4.02	-1.41e-05	-6.68	371.0	8.01	-65.34	-2.13	10.09	0.45	-62.00
18	8	109.66	1.72	1.54e-03	-38.58	0.0	8.07	-27.13	4.55	10.09	-4.03	109.66
		-62.57	-4.03	-1.42e-05	-6.68	371.0	8.07	-65.71	-2.13	10.09	0.46	-62.57
18	9	112.46	1.73	1.60e-03	-50.16	0.0	8.69	-23.08	4.56	11.38	-4.05	112.46
		-66.21	-4.05	-1.42e-05	-6.68	371.0	8.69	-73.24	-2.12	11.38	0.48	-66.21
18	10	141.39	1.89	1.98e-03	-50.16	0.0	9.86	-34.43	4.77	13.70	-4.42	141.39
		-79.38	-4.42	-1.50e-05	-6.68	371.0	9.86	-84.59	-1.91	13.70	0.89	-79.38
18	11	143.02	1.89	2.01e-03	-50.16	0.0	9.98	-35.17	4.78	13.69	-4.44	143.02
		-80.52	-4.44	-1.50e-05	-6.68	371.0	9.98	-85.33	-1.90	13.69	0.90	-80.52
18	12	66.81	1.51	9.76e-04	-38.58	0.0	6.29	-10.23	4.24	6.79	-3.49	66.81
		-42.69	-3.49	-1.31e-05	-6.68	371.0	6.29	-48.81	-2.44	6.79	-0.13	-42.69
18	13	95.75	1.64	1.35e-03	-38.58	0.0	7.46	-21.57	4.45	9.11	-3.86	95.75
		-55.86	-3.86	-1.38e-05	-6.68	371.0	7.46	-60.16	-2.23	9.11	0.27	-55.86
18	14	97.37	1.65	1.38e-03	-38.58	0.0	7.57	-22.32	4.46	9.10	-3.87	97.37
		-57.01	-3.87	-1.38e-05	-6.68	371.0	7.57	-60.90	-2.22	9.10	0.28	-57.01
18	15	109.93	2.50	1.55e-03	-50.16	0.0	9.97	-22.23	7.03	11.98	-5.75	109.93
		-65.60	-5.75	-2.17e-05	-11.13	371.0	9.97	-72.39	-4.10	11.98	-0.30	-65.60
18	16	110.74	2.50	1.57e-03	-50.16	0.0	10.03	-22.61	7.04	11.97	-5.75	110.74
		-66.17	-5.75	-2.17e-05	-11.13	371.0	10.03	-72.77	-4.09	11.97	-0.29	-66.17
18	17	140.49	2.62	1.96e-03	-50.16	0.0	11.26	-34.33	7.25	14.28	-6.13	140.49
		-79.91	-6.13	-2.24e-05	-11.13	371.0	11.26	-84.49	-3.88	14.28	0.12	-79.91
18	18	141.30	2.62	1.97e-03	-50.16	0.0	11.32	-34.70	7.25	14.28	-6.13	141.30
		-80.48	-6.13	-2.24e-05	-11.13	371.0	11.32	-84.86	-3.88	14.28	0.13	-80.48
18	19	64.28	2.33	9.29e-04	-38.58	0.0	7.57	-9.38	6.72	7.39	-5.18	64.28
		-42.08	-5.18	-2.08e-05	-11.13	371.0	7.57	-47.96	-4.41	7.39	-0.91	-42.08
18	20	65.10	2.33	9.44e-04	-38.58	0.0	7.63	-9.75	6.72	7.38	-5.19	65.10
		-42.65	-5.19	-2.08e-05	-11.13	371.0	7.63	-48.34	-4.41	7.38	-0.91	-42.65
18	21	94.84	2.44	1.34e-03	-38.58	0.0	8.86	-21.47	6.93	9.69	-5.56	94.84
		-56.39	-5.56	-2.13e-05	-11.13	371.0	8.86	-60.06	-4.20	9.69	-0.49	-56.39
18	22	95.66	2.45	1.35e-03	-38.58	0.0	8.92	-21.85	6.93	9.69	-5.57	95.66
		-56.97	-5.57	-2.13e-05	-11.13	371.0	8.92	-60.43	-4.20	9.69	-0.49	-56.97
18	23	215.01	0.15	6.04e-04	-38.58	0.0	-1.59	-114.49	0.09	8.19	-0.18	215.01
		-285.85	-0.18	0.0	0.0	371.0	-1.59	-153.07	0.09	8.19	0.15	-285.85
18	24	220.30	0.05	6.23e-04	-38.58	0.0	0.06	-116.88	-0.05	6.99	0.05	220.30
		-281.75	-0.14	0.0	0.0	371.0	0.06	-155.46	-0.05	6.99	-0.14	-281.75
18	25	177.01	2.81	2.01e-03	-38.58	0.0	10.39	77.42	1.43	9.93	-2.49	-35.50
		-35.50	-2.49	-7.27e-06	0.0	371.0	10.39	38.84	1.43	9.93	2.81	177.01
18	26	181.11	2.52	2.03e-03	-38.58	0.0	12.04	75.03	1.29	8.73	-2.27	-30.22
		-30.22	-2.27	-6.35e-06	0.0	371.0	12.04	36.45	1.29	8.73	2.52	181.11
18	27	213.18	0.25	6.17e-04	-38.58	0.0	-1.85	-113.67	0.15	8.02	-0.31	213.18
		-279.46	-0.31	0.0	0.0	371.0	-1.85	-152.25	0.15	8.02	0.25	-279.46
18	28	222.13	0.18	6.10e-04	-38.58	0.0	0.32	-117.70	-0.11	7.17	0.18	222.13
		-288.13	-0.25	0.0	0.0	371.0	0.32	-156.28	-0.11	7.17	-0.25	-288.13
18	29	183.39	2.92	2.02e-03	-38.58	0.0	10.13	78.24	1.49	9.75	-2.63	-37.34
		-37.34	-2.63	-7.37e-06	0.0	371.0	10.13	39.66	1.49	9.75	2.92	183.39
18	30	174.72	2.41	2.01e-03	-38.58	0.0	12.30	74.21	1.23	8.90	-2.14	-28.38
		-28.38	-2.14	-6.25e-06	0.0	371.0	12.30	35.63	1.23	8.90	2.41	174.72
18	31	217.58	0.27	6.29e-04	-38.58	0.0	-0.42	-114.56	0.16	7.96	-0.32	217.58
		-283.50	-0.32	0.0	0.0	371.0	-0.42	-153.15	0.16	7.96	0.27	-283.50
18	32	222.87	-0.02	6.48e-04	-38.58	0.0	1.23	-116.96	0.02	6.76	-0.09	222.87
		-279.41	-0.09	0.0	0.0	371.0	1.23	-155.54	0.02	6.76	-0.02	-279.41
18	33	174.67	2.68	1.98e-03	-38.58	0.0	9.22	77.50	1.35	10.16	-2.35	-38.08
		-38.08	-2.35	-7.10e-06	0.0	371.0	9.22	38.91	1.35	10.16	2.68	174.67
18	34	178.76	2.39	2.00e-03	-38.58	0.0	10.87	75.11	1.22	8.96	-2.13	-32.79
		-32.79	-2.13	-6.18e-06	0.0	371.0	10.87	36.52	1.22	8.96	2.39	178.76
18	35	215.75	0.38	6.42e-04	-38.58	0.0	-0.68	-113.75	0.22	7.78	-0.45	215.75
		-277.12	-0.45	1.24e-06	0.0	371.0	-0.68	-152.33	0.22	7.78	0.38	-277.12
18	36	224.70	0.04	6.35e-04	-38.58	0.0	1.49	-117.77	-0.04	6.94	0.04	224.70
		-285.79	-0.13	0.0	0.0	371.0	1.49	-156.36	-0.04	6.94	-0.13	-285.79
18	37	181.05	2.79	1.99e-03	-38.58	0.0	8.96	78.32	1.42	9.98	-2.48	-39.91
		-39.91	-2.48	-7.20e-06	0.0	371.0	8.96	39.73	1.42	9.98	2.79	181.05
18	38	172.38	2.29	1.99e-03	-38.58	0.0	11.13	74.29	1.15	9.14	-2.00	-30.95
		-30.95	-2.00	-6.07e-06	0.0	371.0	11.13	35.70	1.15	9.14	2.29	172.38
18	39	121.16	1.42	1.06e-03	-38.58	0.0	0.68	-44.53	0.72	10.20	-1.25	121.16
		-128.62	-1.25	-3.71e-06	0.0	371.0	0.68	-83.11	0.72	10.20	1.42	-128.62
18	40	138.78	0.45	1.14e-03	-38.58	0.0	6.17	-52.50	0.26	6.20	-0.50	138.78

		-114.97	-0.50	1.27e-06	0.0	371.0	6.17	-91.09	0.26	6.20	0.45	-114.97
18	41	50.48	2.22	1.49e-03	-38.58	0.0	4.28	13.05	1.12	10.72	-1.95	46.01
		10.23	-1.95	-5.85e-06	0.0	371.0	4.28	-25.54	1.12	10.72	2.22	10.23
18	42	67.11	1.25	1.56e-03	-38.58	0.0	9.77	5.07	0.66	6.72	-1.20	63.63
		23.88	-1.20	-2.79e-06	0.0	371.0	9.77	-33.51	0.66	6.72	1.25	23.88
18	43	121.93	1.46	1.07e-03	-38.58	0.0	1.03	-44.55	0.74	10.13	-1.29	121.93
		-127.92	-1.29	-3.77e-06	0.0	371.0	1.03	-83.13	0.74	10.13	1.46	-127.92
18	44	139.56	0.49	1.15e-03	-38.58	0.0	6.52	-52.53	0.28	6.13	-0.54	139.56
		-114.27	-0.54	1.37e-06	0.0	371.0	6.52	-91.11	0.28	6.13	0.49	-114.27
18	45	49.73	2.18	1.48e-03	-38.58	0.0	3.92	13.07	1.10	10.79	-1.90	45.24
		9.53	-1.90	-5.80e-06	0.0	371.0	3.92	-25.52	1.10	10.79	2.18	9.53
18	46	66.36	1.21	1.55e-03	-38.58	0.0	9.42	5.09	0.64	6.79	-1.15	62.86
		23.18	-1.15	-2.73e-06	0.0	371.0	9.42	-33.49	0.64	6.79	1.21	23.18
18	47	115.04	1.78	1.12e-03	-38.58	0.0	-0.19	-41.80	0.93	9.61	-1.68	115.04
		-107.35	-1.68	-4.05e-06	0.0	371.0	-0.19	-80.39	0.93	9.61	1.78	-107.35
18	48	144.90	0.09	1.09e-03	-38.58	0.0	7.05	-55.23	0.04	6.79	-0.07	144.90
		-136.25	-0.07	0.0	0.0	371.0	7.05	-93.81	0.04	6.79	0.09	-136.25
18	49	53.84	2.58	1.54e-03	-38.58	0.0	3.40	15.77	1.33	10.13	-2.38	39.89
		31.51	-2.38	-6.19e-06	0.0	371.0	3.40	-22.81	1.33	10.13	2.58	31.51
18	50	69.78	0.89	1.51e-03	-38.58	0.0	10.64	2.35	0.45	7.31	-0.76	69.75
		2.61	-0.76	-2.45e-06	0.0	371.0	10.64	-36.24	0.45	7.31	0.89	2.61
18	51	115.81	1.81	1.12e-03	-38.58	0.0	0.16	-41.83	0.95	9.54	-1.73	115.81
		-106.65	-1.73	-4.11e-06	0.0	371.0	0.16	-80.41	0.95	9.54	1.81	-106.65
18	52	145.68	0.13	1.09e-03	-38.58	0.0	7.40	-55.25	0.07	6.72	-0.11	145.68
		-135.55	-0.11	0.0	0.0	371.0	7.40	-93.83	0.07	6.72	0.13	-135.55
18	53	53.09	2.54	1.53e-03	-38.58	0.0	3.05	15.79	1.31	10.20	-2.34	39.12
		30.81	-2.34	-6.14e-06	0.0	371.0	3.05	-22.79	1.31	10.20	2.54	30.81
18	54	69.01	0.85	1.50e-03	-38.58	0.0	10.29	2.37	0.42	7.38	-0.72	68.98
		1.91	-0.72	-2.39e-06	0.0	371.0	10.29	-36.22	0.42	7.38	0.85	1.91
18	55	83.66	1.21	1.20e-03	-38.58	0.0	4.86	-16.27	0.63	7.80	-1.11	83.66
		-48.28	-1.11	-2.96e-06	0.0	371.0	4.86	-54.86	0.63	7.80	1.21	-48.28
18	56	92.40	1.33	1.31e-03	-38.58	0.0	5.22	-19.73	0.69	8.46	-1.22	92.40
		-52.37	-1.22	-3.25e-06	0.0	371.0	5.22	-58.31	0.69	8.46	1.33	-52.37
19	1	56.62	0.63	-1.63e-03	-157.76	0.0	19.89	76.08	0.12	1.42	-0.22	-87.03
		-87.03	-0.22	1.38e-05	0.0	710.7	19.89	-81.68	0.12	1.42	0.63	-80.02
19	2	56.63	0.63	-1.64e-03	-157.76	0.0	19.83	76.13	0.12	1.44	-0.23	-87.22
		-87.22	-0.23	1.38e-05	0.0	710.7	19.83	-81.63	0.12	1.44	0.63	-79.82
19	3	80.31	0.75	-2.30e-03	-222.44	0.0	25.36	105.57	0.15	1.82	-0.29	-118.48
		-118.48	-0.29	1.88e-05	0.0	710.7	25.36	-116.87	0.15	1.82	0.75	-116.11
19	4	80.32	0.76	-2.30e-03	-222.44	0.0	25.31	105.62	0.15	1.84	-0.29	-118.67
		-118.67	-0.29	1.88e-05	0.0	710.7	25.31	-116.81	0.15	1.84	0.76	-115.90
19	5	29.60	0.49	-8.21e-04	-84.04	0.0	15.10	41.54	0.09	0.93	-0.15	-49.21
		-49.21	-0.15	-1.00e-05	0.0	710.7	15.10	-42.50	0.09	0.93	0.49	-40.91
19	6	29.60	0.49	-8.27e-04	-84.04	0.0	15.05	41.60	0.09	0.95	-0.15	-49.40
		-49.40	-0.15	-1.00e-05	0.0	710.7	15.05	-42.44	0.09	0.95	0.49	-40.71
19	7	53.29	0.62	-1.48e-03	-148.72	0.0	20.58	71.03	0.12	1.33	-0.21	-80.65
		-80.65	-0.21	1.37e-05	0.0	710.7	20.58	-77.69	0.12	1.33	0.62	-77.00
19	8	53.29	0.62	-1.49e-03	-148.72	0.0	20.52	71.09	0.12	1.35	-0.21	-80.85
		-80.85	-0.21	1.37e-05	0.0	710.7	20.52	-77.63	0.12	1.35	0.62	-76.79
19	9	56.63	0.63	-1.65e-03	-157.76	0.0	19.77	76.19	0.12	1.46	-0.23	-87.42
		-87.42	-0.23	1.38e-05	0.0	710.7	19.77	-81.57	0.12	1.46	0.63	-79.61
19	10	73.20	0.72	-2.10e-03	-203.03	0.0	23.72	96.72	0.14	1.70	-0.27	-109.04
		-109.04	-0.27	1.73e-05	0.0	710.7	23.72	-106.31	0.14	1.70	0.72	-105.28
19	11	73.21	0.72	-2.11e-03	-203.03	0.0	23.61	96.83	0.14	1.74	-0.27	-109.43
		-109.43	-0.27	1.73e-05	0.0	710.7	23.61	-106.20	0.14	1.74	0.72	-104.87
19	12	29.61	0.49	-8.34e-04	-84.04	0.0	14.99	41.65	0.09	0.96	-0.15	-49.60
		-49.60	-0.15	-1.00e-05	0.0	710.7	14.99	-42.39	0.09	0.96	0.49	-40.50
19	13	46.18	0.58	-1.28e-03	-129.31	0.0	18.94	62.18	0.11	1.21	-0.19	-71.22
		-71.22	-0.19	1.22e-05	0.0	710.7	18.94	-67.13	0.11	1.21	0.58	-66.17
19	14	46.19	0.58	-1.30e-03	-129.31	0.0	18.82	62.30	0.11	1.24	-0.20	-71.61
		-71.61	-0.20	1.22e-05	0.0	710.7	18.82	-67.02	0.11	1.24	0.58	-65.76
19	15	55.53	0.80	-1.51e-03	-157.76	0.0	24.90	76.50	0.15	1.49	-0.24	-89.61
		-89.61	-0.24	-1.69e-05	0.0	710.7	24.90	-81.26	0.15	1.49	0.80	-79.62
19	16	55.54	0.80	-1.52e-03	-157.76	0.0	24.84	76.55	0.15	1.51	-0.24	-89.80
		-89.80	-0.24	-1.69e-05	0.0	710.7	24.84	-81.21	0.15	1.51	0.80	-79.42
19	17	72.12	0.89	-1.97e-03	-203.03	0.0	28.74	97.14	0.17	1.77	-0.28	-111.62
		-111.62	-0.28	1.72e-05	0.0	710.7	28.74	-105.89	0.17	1.77	0.89	-104.88
19	18	72.12	0.89	-1.98e-03	-203.03	0.0	28.68	97.20	0.17	1.79	-0.29	-111.82
		-111.82	-0.29	1.72e-05	0.0	710.7	28.68	-105.84	0.17	1.79	0.89	-104.68
19	19	28.51	0.66	-6.97e-04	-84.04	0.0	20.12	41.96	0.12	1.00	-0.17	-51.79
		-51.79	-0.17	-1.68e-05	0.0	710.7	20.12	-42.08	0.12	1.00	0.66	-40.51
19	20	28.52	0.67	-7.04e-04	-84.04	0.0	20.06	42.02	0.12	1.02	-0.17	-51.98
		-51.98	-0.17	-1.68e-05	0.0	710.7	20.06	-42.02	0.12	1.02	0.67	-40.30
19	21	45.09	0.75	-1.16e-03	-129.31	0.0	23.95	62.60	0.14	1.28	-0.21	-73.80
		-73.80	-0.21	-1.70e-05	0.0	710.7	23.95	-66.71	0.14	1.28	0.75	-65.77
19	22	45.10	0.76	-1.17e-03	-129.31	0.0	23.89	62.66	0.14	1.30	-0.21	-73.99
		-73.99	-0.21	-1.70e-05	0.0	710.7	23.89	-66.66	0.14	1.30	0.76	-65.56
19	23	48.30	0.08	-1.61e-03	-129.31	0.0	21.63	61.20	-0.02	10.92	0.08	-65.71
		-67.44	0.02	-6.02e-06	0.0	710.7	21.63	-68.12	-0.02	10.92	0.02	-67.44
19	24	50.00	-0.02	-1.87e-03	-129.31	0.0	11.23	59.97	6.02e-03	10.72	-0.02	-59.43
		-70.32	-0.06	2.47e-06	0.0	710.7	11.23	-69.34	6.02e-03	10.72	-0.06	-70.32
19	25	45.47	0.65	-1.09e-03	-129.31	0.0	9.47	63.33	0.12	-8.60	-0.30	-76.12
		-76.12	-0.30	2.46e-05	0.0	710.7	9.47	-65.99	0.12	-8.60	0.65	-62.69
19	26	47.17	0.57	-1.35e-03	-129.31	0.0	-0.93	62.10	0.14	-8.80	-0.40	-69.84
		-69.84	-0.40	2.65e-05	0.0	710.7	-0.93	-67.21	0.14	-8.80	0.57	-65.57
19	27	48.58	0.08	-1.64e-03	-129.31	0.0	21.51	61.04	0.03	11.06	-0.14	-64.85
		-67.74	-0.14	2.89e-06	0.0	710.7	21.51	-68.27	0.03	11.06	0.08	-67.74
19	28	49.72	0.19	-1.84e-03	-129.31	0.0	11.35	60.13	-0.04	10.58	0.19	-60.29
		-70.02	-0.11	-5.85e-06	0.0	710.7	11.35	-69.19	-0.04	10.58	-0.11	-70.02
19	29	45.75	0.71	-1.12e-03	-129.31	0.0	9.35	63.17	0.17	-8.46	-0.51	-75.26
		-75.26	-0.51	2.77e-05	0.0	710.7	9.35	-66.14	0.17	-8.46	0.71	-62.99
19	30	46.89	0.52	-1.31e-03	-129.31	0.0	-0.81	62.26	0.10	-8.94	-0.19	-70.70
		-70.70	-0.19	2.34e-05	0.0	710.7	-0.81	-67.06	0.10	-8.94	0.52	-65.27
19	31	48.85	0.03	-1.64e-03	-129.31	0.0	12.16	60.82	-0.01	11.15	-0.30	-63.84
		-68.22	-0.30	1.47e-05	0.0	710.7	12.16	-68.49	-0.01	11.15	0.03	-68.22
19	32	50.55	-0.05	-1.90e-03	-129.31	0.0	1.76	59.60	0.01	10.95	-0.40	-57.57

		-71.09	-0.40	2.31e-05	0.0	710.7	1.76	-69.71	0.01	10.95	-0.05	-71.09
19	33	44.93	0.65	-1.06e-03	-129.31	0.0	18.94	63.70	0.12	-8.83	0.08	-77.98
		-77.98	0.08	-2.30e-05	0.0	710.7	18.94	-65.62	0.12	-8.83	0.65	-61.92
19	34	46.63	0.57	-1.32e-03	-129.31	0.0	8.54	62.48	0.14	-9.03	-0.02	-71.71
		-71.71	-0.02	1.61e-05	0.0	710.7	8.54	-66.84	0.14	-9.03	0.57	-64.79
19	35	49.13	0.08	-1.67e-03	-129.31	0.0	12.04	60.67	0.04	11.29	-0.51	-62.99
		-68.51	-0.51	2.30e-05	0.0	710.7	12.04	-68.64	0.04	11.29	0.08	-68.51
19	36	50.27	-0.11	-1.87e-03	-129.31	0.0	1.88	59.76	-0.04	10.81	-0.19	-58.42
		-70.80	-0.19	1.50e-05	0.0	710.7	1.88	-69.56	-0.04	10.81	-0.11	-70.80
19	37	45.21	0.70	-1.09e-03	-129.31	0.0	18.82	63.55	0.16	-8.69	-0.13	-77.13
		-77.13	-0.13	1.73e-05	0.0	710.7	18.82	-65.77	0.16	-8.69	0.70	-62.21
19	38	46.35	0.52	-1.29e-03	-129.31	0.0	8.66	62.63	0.09	-9.17	0.19	-72.56
		-72.56	0.19	-2.28e-05	0.0	710.7	8.66	-66.68	0.09	-9.17	0.52	-64.50
19	39	45.33	0.34	-1.13e-03	-129.31	0.0	29.51	63.37	8.32e-03	4.32	0.06	-76.67
		-76.67	0.06	-1.45e-05	0.0	710.7	29.51	-65.95	8.32e-03	4.32	0.34	-62.42
19	40	51.00	0.07	-1.99e-03	-129.31	0.0	-5.16	59.29	0.08	3.66	-0.27	-55.75
		-72.01	-0.27	1.35e-05	0.0	710.7	-5.16	-70.02	0.08	3.66	0.07	-72.01
19	41	44.56	0.53	-9.73e-04	-129.31	0.0	25.86	64.01	0.05	-1.54	-0.05	-79.79
		-79.79	-0.05	-1.34e-05	0.0	710.7	25.86	-65.31	0.05	-1.54	0.53	-61.00
19	42	50.15	0.26	-1.83e-03	-129.31	0.0	-8.81	59.93	0.12	-2.20	-0.38	-58.88
		-70.58	-0.38	1.88e-05	0.0	710.7	-8.81	-69.38	0.12	-2.20	0.26	-70.58
19	43	45.49	0.34	-1.14e-03	-129.31	0.0	26.67	63.26	9.86e-03	4.39	-0.05	-76.11
		-76.11	-0.05	-8.36e-06	0.0	710.7	26.67	-66.06	9.86e-03	4.39	0.34	-62.66
19	44	51.16	0.07	-1.99e-03	-129.31	0.0	-8.00	59.18	0.08	3.73	-0.38	-55.19
		-72.24	-0.38	1.97e-05	0.0	710.7	-8.00	-70.13	0.08	3.73	0.07	-72.24
19	45	44.44	0.53	-9.65e-04	-129.31	0.0	28.70	64.12	0.05	-1.61	0.06	-80.35
		-80.35	0.06	-1.96e-05	0.0	710.7	28.70	-65.20	0.05	-1.61	0.53	-60.77
19	46	49.98	0.26	-1.82e-03	-129.31	0.0	-5.97	60.05	0.12	-2.27	-0.27	-59.43
		-70.35	-0.27	1.57e-05	0.0	710.7	-5.97	-69.27	0.12	-2.27	0.26	-70.35
19	47	46.26	0.51	-1.24e-03	-129.31	0.0	29.10	62.86	0.16	4.79	-0.65	-73.82
		-73.82	-0.65	1.43e-05	0.0	710.7	29.10	-66.46	0.16	4.79	0.51	-63.41
19	48	50.06	0.44	-1.88e-03	-129.31	0.0	-4.76	59.80	-0.07	3.19	0.44	-58.60
		-71.03	-0.11	-1.45e-05	0.0	710.7	-4.76	-69.51	-0.07	3.19	-0.11	-71.03
19	49	45.41	0.70	-1.08e-03	-129.31	0.0	25.46	63.50	0.20	-1.07	-0.76	-76.94
		-76.94	-0.76	2.28e-05	0.0	710.7	25.46	-65.82	0.20	-1.07	0.70	-61.98
19	50	49.21	0.32	-1.72e-03	-129.31	0.0	-8.41	60.44	-0.03	-2.67	0.32	-61.73
		-69.60	0.08	-1.34e-05	0.0	710.7	-8.41	-68.87	-0.03	-2.67	0.08	-69.60
19	51	46.43	0.51	-1.25e-03	-129.31	0.0	26.26	62.75	0.16	4.86	-0.76	-73.26
		-73.26	-0.76	2.02e-05	0.0	710.7	26.26	-66.57	0.16	4.86	0.51	-63.64
19	52	50.23	0.32	-1.89e-03	-129.31	0.0	-7.60	59.69	-0.07	3.26	0.32	-58.04
		-71.26	-0.11	-8.68e-06	0.0	710.7	-7.60	-69.62	-0.07	3.26	-0.11	-71.26
19	53	45.25	0.70	-1.07e-03	-129.31	0.0	28.30	63.61	0.20	-1.14	-0.64	-77.50
		-77.50	-0.64	1.97e-05	0.0	710.7	28.30	-65.70	0.20	-1.14	0.70	-61.75
19	54	49.05	0.44	-1.71e-03	-129.31	0.0	-5.57	60.55	-0.04	-2.74	0.44	-62.29
		-69.37	0.08	-1.94e-05	0.0	710.7	-5.57	-68.76	-0.04	-2.74	0.08	-69.37
19	55	43.00	0.27	-1.35e-03	-116.38	0.0	9.25	55.75	0.06	0.98	-0.15	-61.48
		-61.48	-0.15	1.04e-05	0.0	710.7	9.25	-60.63	0.06	0.98	0.27	-59.29
19	56	47.74	0.30	-1.48e-03	-129.31	0.0	10.35	61.65	0.06	1.06	-0.16	-67.77
		-67.77	-0.16	1.14e-05	0.0	710.7	10.35	-67.66	0.06	1.06	0.30	-66.50
20	1	354.18	2.24	-2.85e-03	-419.83	0.0	74.79	209.57	-0.09	2.15	2.24	-234.26
		-238.14	1.19	-2.66e-05	0.0	1125.0	74.79	-210.26	-0.09	2.15	1.19	-238.14
20	2	354.22	2.24	-2.85e-03	-419.83	0.0	74.66	209.57	-0.09	2.18	2.24	-234.20
		-238.11	1.21	-2.67e-05	0.0	1125.0	74.66	-210.26	-0.09	2.18	1.21	-238.11
20	3	458.12	2.66	-3.63e-03	-545.04	0.0	101.09	272.05	-0.08	3.08	2.66	-305.71
		-310.96	1.78	-3.39e-05	0.0	1125.0	101.09	-272.99	-0.08	3.08	1.78	-310.96
20	4	458.17	2.66	-3.63e-03	-545.04	0.0	100.96	272.05	-0.08	3.11	2.66	-305.66
		-310.93	1.79	-3.40e-05	0.0	1125.0	100.96	-272.99	-0.08	3.11	1.79	-310.93
20	5	211.09	1.84	-1.76e-03	-250.71	0.0	50.62	125.10	-0.12	1.16	1.84	-140.03
		-142.90	0.45	-1.88e-05	0.0	1125.0	50.62	-125.61	-0.12	1.16	0.45	-142.90
20	6	211.13	1.84	-1.76e-03	-250.71	0.0	50.49	125.10	-0.12	1.18	1.84	-139.98
		-142.87	0.47	-1.89e-05	0.0	1125.0	50.49	-125.61	-0.12	1.18	0.47	-142.87
20	7	315.03	2.26	-2.54e-03	-375.92	0.0	76.92	187.58	-0.11	2.09	2.26	-211.49
		-215.72	1.03	-2.61e-05	0.0	1125.0	76.92	-188.34	-0.11	2.09	1.03	-215.72
20	8	315.08	2.26	-2.54e-03	-375.92	0.0	76.79	187.58	-0.11	2.11	2.26	-211.43
		-215.69	1.05	-2.62e-05	0.0	1125.0	76.79	-188.34	-0.11	2.11	1.05	-215.69
20	9	354.27	2.24	-2.86e-03	-419.83	0.0	74.53	209.56	-0.09	2.20	2.24	-234.15
		-238.08	1.23	-2.68e-05	0.0	1125.0	74.53	-210.26	-0.09	2.20	1.23	-238.08
20	10	426.94	2.54	-3.40e-03	-507.48	0.0	93.20	253.31	-0.08	2.80	2.54	-284.28
		-289.12	1.60	-3.17e-05	0.0	1125.0	93.20	-254.17	-0.08	2.80	1.60	-289.12
20	11	427.03	2.53	-3.40e-03	-507.48	0.0	92.94	253.30	-0.08	2.85	2.53	-284.17
		-289.06	1.64	-3.19e-05	0.0	1125.0	92.94	-254.17	-0.08	2.85	1.64	-289.06
20	12	211.18	1.84	-1.76e-03	-250.71	0.0	50.36	125.09	-0.12	1.21	1.84	-139.92
		-142.84	0.48	-1.90e-05	0.0	1125.0	50.36	-125.61	-0.12	1.21	0.48	-142.84
20	13	283.85	2.13	-2.31e-03	-338.36	0.0	69.03	168.84	-0.11	1.81	2.13	-190.05
		-193.87	0.86	-2.39e-05	0.0	1125.0	69.03	-169.52	-0.11	1.81	0.86	-193.87
20	14	283.94	2.13	-2.31e-03	-338.36	0.0	68.77	168.83	-0.11	1.86	2.13	-189.94
		-193.81	0.89	-2.41e-05	0.0	1125.0	68.77	-169.52	-0.11	1.86	0.89	-193.81
20	15	354.63	3.02	-2.95e-03	-419.83	0.0	81.28	209.45	-0.21	1.95	3.02	-233.14
		-238.37	0.63	-3.05e-05	0.0	1125.0	81.28	-210.38	-0.21	1.95	0.63	-238.37
20	16	354.67	3.02	-2.95e-03	-419.83	0.0	81.15	209.45	-0.21	1.98	3.02	-233.09
		-238.34	0.64	-3.05e-05	0.0	1125.0	81.15	-210.38	-0.21	1.98	0.64	-238.34
20	17	427.39	3.31	-3.49e-03	-507.48	0.0	99.69	253.19	-0.20	2.61	3.31	-283.16
		-289.35	1.03	-3.55e-05	0.0	1125.0	99.69	-254.29	-0.20	2.61	1.03	-289.35
20	18	427.43	3.31	-3.49e-03	-507.48	0.0	99.56	253.19	-0.20	2.63	3.31	-283.11
		-289.32	1.05	-3.56e-05	0.0	1125.0	99.56	-254.29	-0.20	2.63	1.05	-289.32
20	19	211.54	2.61	-1.86e-03	-250.71	0.0	57.11	124.98	-0.24	0.96	2.61	-138.91
		-143.13	-0.12	-2.27e-05	0.0	1125.0	57.11	-125.73	-0.24	0.96	-0.12	-143.13
20	20	211.58	2.61	-1.86e-03	-250.71	0.0	56.98	124.98	-0.24	0.99	2.61	-138.86
		-143.10	-0.10	-2.28e-05	0.0	1125.0	56.98	-125.73	-0.24	0.99	-0.10	-143.10
20	21	284.30	2.90	-2.40e-03	-338.36	0.0	75.52	168.72	-0.23	1.61	2.90	-188.93
		-194.10	0.29	-2.78e-05	0.0	1125.0	75.52	-169.64	-0.23	1.61	0.29	-194.10
20	22	284.34	2.90	-2.40e-03	-338.36	0.0	75.39	168.72	-0.23	1.64	2.90	-188.88
		-194.07	0.31	-2.78e-05	0.0	1125.0	75.39	-169.64	-0.23	1.64	0.31	-194.07
20	23	287.25	7.94	-2.25e-03	-338.35	0.0	52.74	168.41	0.51	-5.17	2.32	-185.99
		-191.13	2.32	-8.70e-05	0.0	1125.0	52.74	-169.95	0.51	-5.17	7.94	-191.13
20	24	283.58	8.29	-2.04e-03	-338.35	0.0	40.75	169.04	0.54	-4.48	2.19	-189.36

		-195.10	2.19	-8.44e-05	0.0	1125.0	40.75	-169.31	0.54	-4.48	8.29	-195.10
20	25	285.46	-0.39	-2.33e-03	-338.35	0.0	67.42	169.02	-0.41	8.49	-0.39	-191.59
		-191.59	-4.99	5.11e-05	0.0	1125.0	67.42	-169.33	-0.41	8.49	-4.99	-189.11
20	26	281.79	-0.52	-2.12e-03	-338.35	0.0	55.43	169.66	-0.38	9.18	-0.52	-194.96
		-194.96	-4.63	5.42e-05	0.0	1125.0	55.43	-168.70	-0.38	9.18	-4.63	-193.08
20	27	285.55	8.52	-2.23e-03	-338.35	0.0	61.04	168.17	0.58	-3.74	2.43	-184.37
		-196.15	2.43	-8.86e-05	0.0	1125.0	61.04	-170.18	0.58	-3.74	8.52	-196.15
20	28	285.29	7.71	-2.06e-03	-338.35	0.0	32.45	169.28	0.48	-5.91	2.07	-190.97
		-190.97	2.07	-8.28e-05	0.0	1125.0	32.45	-169.08	0.48	-5.91	7.71	-190.08
20	29	283.76	-0.27	-2.31e-03	-338.35	0.0	75.72	168.79	-0.34	9.92	-0.27	-189.98
		-194.13	-4.40	5.01e-05	0.0	1125.0	75.72	-169.57	-0.34	9.92	-4.40	-194.13
20	30	283.49	-0.63	-2.14e-03	-338.35	0.0	47.12	169.89	-0.44	7.75	-0.63	-196.57
		-196.57	-5.22	5.53e-05	0.0	1125.0	47.12	-168.46	-0.44	7.75	-5.22	-188.06
20	31	287.66	8.35	-2.28e-03	-338.35	0.0	67.38	168.17	0.56	-4.01	2.26	-184.34
		-191.97	2.26	-7.70e-05	0.0	1125.0	67.38	-170.19	0.56	-4.01	8.35	-191.97
20	32	283.99	8.71	-2.07e-03	-338.35	0.0	55.39	168.80	0.59	-3.33	2.13	-187.71
		-195.94	2.13	-7.48e-05	0.0	1125.0	55.39	-169.55	0.59	-3.33	8.71	-195.94
20	33	285.06	-0.33	-2.30e-03	-338.35	0.0	52.78	169.26	-0.45	7.34	-0.33	-193.24
		-193.24	-5.40	4.09e-05	0.0	1125.0	52.78	-169.09	-0.45	7.34	-5.40	-188.27
20	34	281.39	-0.47	-2.09e-03	-338.35	0.0	40.79	169.90	-0.42	8.02	-0.47	-196.61
		-196.61	-5.05	4.34e-05	0.0	1125.0	40.79	-168.46	-0.42	8.02	-5.05	-192.23
20	35	285.95	8.94	-2.26e-03	-338.35	0.0	75.68	167.93	0.62	-2.59	2.38	-182.72
		-196.99	2.38	-7.90e-05	0.0	1125.0	75.68	-170.42	0.62	-2.59	8.94	-196.99
20	36	285.69	8.12	-2.08e-03	-338.35	0.0	47.09	169.04	0.52	-4.75	2.02	-189.32
		-190.92	2.02	-7.28e-05	0.0	1125.0	47.09	-169.32	0.52	-4.75	8.12	-190.92
20	37	283.36	-0.22	-2.28e-03	-338.35	0.0	61.08	169.03	-0.39	8.76	-0.22	-191.63
		-193.28	-4.82	3.92e-05	0.0	1125.0	61.08	-169.33	-0.39	8.76	-4.82	-193.28
20	38	283.09	-0.58	-2.11e-03	-338.35	0.0	32.49	170.13	-0.49	6.60	-0.58	-198.22
		-198.22	-5.63	4.51e-05	0.0	1125.0	32.49	-168.22	-0.49	6.60	-5.63	-187.22
20	39	290.91	3.00	-2.52e-03	-338.35	0.0	71.86	167.89	0.16	-1.18	1.53	-184.01
		-185.79	1.53	-4.18e-05	0.0	1125.0	71.86	-170.47	0.16	-1.18	3.00	-185.79
20	40	278.68	4.18	-1.82e-03	-338.35	0.0	31.91	169.99	0.25	1.09	1.08	-195.25
		-199.02	1.08	-3.37e-05	0.0	1125.0	31.91	-168.36	0.25	1.09	4.18	-199.02
20	41	290.37	0.72	-2.54e-03	-338.35	0.0	76.26	168.07	-0.12	2.92	0.72	-185.69
		-185.69	-0.87	-3.78e-06	0.0	1125.0	76.26	-170.28	-0.12	2.92	-0.87	-185.19
20	42	278.14	0.30	-1.85e-03	-338.35	0.0	36.31	170.18	-0.02	5.19	0.27	-196.93
		-198.41	0.27	2.25e-05	0.0	1125.0	36.31	-168.18	-0.02	5.19	0.30	-198.41
20	43	291.03	3.13	-2.53e-03	-338.35	0.0	76.25	167.82	0.17	-0.84	1.51	-183.52
		-186.05	1.51	-3.88e-05	0.0	1125.0	76.25	-170.54	0.17	-0.84	3.13	-186.05
20	44	278.80	4.30	-1.83e-03	-338.35	0.0	36.30	169.92	0.27	1.44	1.07	-194.76
		-199.27	1.07	-3.11e-05	0.0	1125.0	36.30	-168.44	0.27	1.44	4.30	-199.27
20	45	290.25	0.73	-2.53e-03	-338.35	0.0	71.87	168.15	-0.13	2.57	0.73	-186.19
		-186.19	-1.00	-1.07e-05	0.0	1125.0	71.87	-170.21	-0.13	2.57	-1.00	-184.94
20	46	278.02	0.29	-1.84e-03	-338.35	0.0	31.92	170.25	-0.03	4.85	0.29	-197.43
		-198.16	0.18	1.56e-05	0.0	1125.0	31.92	-168.11	-0.03	4.85	0.18	-198.16
20	47	285.23	4.95	-2.46e-03	-338.35	0.0	99.54	167.10	0.37	3.56	1.91	-178.64
		-202.52	1.91	-4.78e-05	0.0	1125.0	99.54	-171.26	0.37	3.56	4.95	-202.52
20	48	284.35	2.23	-1.88e-03	-338.35	0.0	4.22	170.78	0.04	-3.65	0.70	-200.62
		-200.62	0.70	-2.77e-05	0.0	1125.0	4.22	-167.57	0.04	-3.65	2.23	-182.30
20	49	284.69	1.10	-2.49e-03	-338.35	0.0	103.95	167.28	0.10	7.66	1.10	-180.32
		-201.91	1.07	1.91e-05	0.0	1125.0	103.95	-171.07	0.10	7.66	1.07	-201.91
20	50	283.81	-0.11	-1.90e-03	-338.35	0.0	8.63	170.97	-0.24	0.45	-0.11	-202.30
		-202.30	-1.65	1.37e-05	0.0	1125.0	8.63	-167.39	-0.24	0.45	-1.65	-181.69
20	51	285.35	5.07	-2.47e-03	-338.35	0.0	103.93	167.03	0.39	3.90	1.89	-178.15
		-202.77	1.89	-4.52e-05	0.0	1125.0	103.93	-171.33	0.39	3.90	5.07	-202.77
20	52	284.47	2.36	-1.89e-03	-338.35	0.0	8.61	170.71	0.05	-3.30	0.69	-200.13
		-200.13	0.69	-2.47e-05	0.0	1125.0	8.61	-167.65	0.05	-3.30	2.36	-182.55
20	53	284.57	1.11	-2.48e-03	-338.35	0.0	99.55	167.36	0.08	7.31	1.11	-180.82
		-201.66	0.95	1.22e-05	0.0	1125.0	99.55	-171.00	0.08	7.31	0.95	-201.66
20	54	283.69	-0.09	-1.89e-03	-338.35	0.0	4.23	171.04	-0.25	0.10	-0.09	-202.80
		-202.80	-1.77	1.08e-05	0.0	1125.0	4.23	-167.32	-0.25	0.10	-1.77	-181.44
20	55	263.73	1.54	-2.03e-03	-313.31	0.0	48.83	156.54	0.06	1.82	0.82	-176.18
		-177.54	0.82	-1.57e-05	0.0	1125.0	48.83	-156.78	0.06	1.82	1.54	-177.54
20	56	284.52	1.65	-2.18e-03	-338.35	0.0	54.08	169.03	0.07	2.00	0.90	-190.47
		-192.10	0.90	-1.72e-05	0.0	1125.0	54.08	-169.32	0.07	2.00	1.65	-192.10
21	1	566.97	2.58	-3.94e-03	-667.08	0.0	94.36	334.27	0.03	0.27	2.23	-375.23
		-375.23	2.23	-1.39e-05	0.0	1125.0	94.36	-332.81	0.03	0.27	2.58	-366.99
21	2	567.04	2.60	-3.94e-03	-667.08	0.0	94.16	334.27	0.03	0.27	2.23	-375.13
		-375.13	2.23	-1.40e-05	0.0	1125.0	94.16	-332.81	0.03	0.27	2.60	-366.95
21	3	777.04	3.50	-5.32e-03	-917.50	0.0	128.93	459.99	0.04	0.55	3.09	-520.14
		-520.14	3.09	-1.88e-05	0.0	1125.0	128.93	-457.52	0.04	0.55	3.50	-506.26
21	4	777.12	3.53	-5.32e-03	-917.50	0.0	128.73	459.98	0.04	0.55	3.10	-520.03
		-520.03	3.10	-1.88e-05	0.0	1125.0	128.73	-457.52	0.04	0.55	3.53	-506.22
21	5	312.27	1.58	-2.25e-03	-368.66	0.0	63.93	184.57	0.02	0.05	1.36	-207.52
		-207.52	1.36	-9.39e-06	0.0	1125.0	63.93	-184.09	0.02	0.05	1.58	-204.80
21	6	312.34	1.61	-2.25e-03	-368.66	0.0	63.74	184.57	0.02	0.05	1.37	-207.42
		-207.42	1.37	-9.46e-06	0.0	1125.0	63.74	-184.10	0.02	0.05	1.61	-204.76
21	7	522.34	2.51	-3.62e-03	-619.09	0.0	98.50	310.29	0.03	0.32	2.22	-352.43
		-352.43	2.22	-1.42e-05	0.0	1125.0	98.50	-308.80	0.03	0.32	2.51	-344.07
21	8	522.42	2.54	-3.62e-03	-619.09	0.0	98.31	310.28	0.03	0.33	2.23	-352.32
		-352.32	2.23	-1.43e-05	0.0	1125.0	98.31	-308.81	0.03	0.33	2.54	-344.03
21	9	567.12	2.63	-3.94e-03	-667.08	0.0	93.96	334.26	0.03	0.28	2.24	-375.02
		-375.02	2.24	-1.41e-05	0.0	1125.0	93.96	-332.82	0.03	0.28	2.63	-366.91
21	10	714.02	3.23	-4.91e-03	-842.38	0.0	118.56	422.27	0.04	0.46	2.83	-476.67
		-476.67	2.83	-1.73e-05	0.0	1125.0	118.56	-420.11	0.04	0.46	3.23	-464.48
21	11	714.17	3.28	-4.91e-03	-842.38	0.0	118.16	422.26	0.04	0.47	2.84	-476.45
		-476.45	2.84	-1.74e-05	0.0	1125.0	118.16	-420.12	0.04	0.47	3.28	-464.40
21	12	312.41	1.63	-2.25e-03	-368.66	0.0	63.54	184.56	0.02	0.06	1.37	-207.31
		-207.31	1.37	-9.53e-06	0.0	1125.0	63.54	-184.10	0.02	0.06	1.63	-204.73
21	13	459.32	2.23	-3.21e-03	-543.96	0.0	88.13	272.57	0.02	0.24	1.96	-308.96
		-308.96	1.96	-1.28e-05	0.0	1125.0	88.13	-271.39	0.02	0.24	2.23	-302.29
21	14	459.47	2.28	-3.21e-03	-543.96	0.0	87.74	272.56	0.03	0.25	1.98	-308.74
		-308.74	1.98	-1.29e-05	0.0	1125.0	87.74	-271.40	0.03	0.25	2.28	-302.21
21	15	568.06	2.67	-4.05e-03	-667.08	0.0	103.63	333.90	0.04	0.18	2.19	-372.07
		-372.07	2.19	-1.59e-05	0.0	1125.0	103.63	-333.18	0.04	0.18	2.67	-367.97
21	16	568.13	2.69	-4.05e-03	-667.08	0.0	103.43	333.90	0.04	0.19	2.20	-371.96

		-371.96	2.20	-1.60e-05	0.0	1125.0	103.43	-333.18	0.04	0.19	2.69	-367.94
21	17	715.11	3.31	-5.01e-03	-842.38	0.0	127.83	421.90	0.05	0.38	2.80	-473.50
		-473.50	2.80	-1.93e-05	0.0	1125.0	127.83	-420.47	0.05	0.38	3.31	-465.46
21	18	715.18	3.34	-5.01e-03	-842.38	0.0	127.63	421.90	0.05	0.38	2.80	-473.39
		-473.39	2.80	-1.94e-05	0.0	1125.0	127.63	-420.48	0.05	0.38	3.34	-465.42
21	19	313.36	1.67	-2.36e-03	-368.66	0.0	73.21	184.20	0.03	-0.04	1.33	-204.36
		-205.79	1.33	-1.15e-05	0.0	1125.0	73.21	-184.46	0.03	-0.04	1.67	-205.79
21	20	313.43	1.70	-2.36e-03	-368.66	0.0	73.01	184.20	0.03	-0.03	1.33	-204.25
		-205.75	1.33	-1.16e-05	0.0	1125.0	73.01	-184.46	0.03	-0.03	1.70	-205.75
21	21	460.41	2.32	-3.32e-03	-543.96	0.0	97.41	272.20	0.03	0.16	1.93	-305.79
		-305.79	1.93	-1.48e-05	0.0	1125.0	97.41	-271.76	0.03	0.16	2.32	-303.28
21	22	460.48	2.35	-3.32e-03	-543.96	0.0	97.21	272.20	0.04	0.16	1.94	-305.68
		-305.68	1.94	-1.48e-05	0.0	1125.0	97.21	-271.76	0.04	0.16	2.35	-303.24
21	23	459.80	7.19	-3.29e-03	-543.96	0.0	72.20	273.56	0.52	8.44	-0.36	-313.90
		-313.90	-0.36	-3.20e-05	0.0	1125.0	72.20	-270.40	0.52	8.44	7.19	-296.40
21	24	458.67	6.72	-3.09e-03	-543.96	0.0	56.79	274.46	0.47	8.91	0.12	-320.35
		-320.35	0.12	-2.72e-05	0.0	1125.0	56.79	-269.50	0.47	8.91	6.72	-292.20
21	25	461.98	3.63	-3.06e-03	-543.96	0.0	77.64	271.63	-0.45	-8.22	3.63	-300.85
		-305.07	-2.71	2.16e-05	0.0	1125.0	77.64	-272.33	-0.45	-8.22	-2.71	-305.07
21	26	460.85	4.11	-2.86e-03	-543.96	0.0	62.23	272.53	-0.50	-7.75	4.11	-307.31
		-307.31	-3.18	2.90e-05	0.0	1125.0	62.23	-271.43	-0.50	-7.75	-3.18	-300.87
21	27	459.98	7.28	-3.30e-03	-543.96	0.0	74.86	273.41	0.56	9.21	0.28	-312.88
		-312.88	0.28	-3.01e-05	0.0	1125.0	74.86	-270.55	0.56	9.21	7.28	-297.04
21	28	458.48	6.63	-3.09e-03	-543.96	0.0	54.12	274.61	0.44	8.14	-0.51	-321.37
		-321.37	-0.51	-2.91e-05	0.0	1125.0	54.12	-269.35	0.44	8.14	6.63	-291.56
21	29	462.17	4.27	-3.06e-03	-543.96	0.0	80.31	271.48	-0.41	-7.45	4.27	-299.84
		-305.71	-2.62	2.80e-05	0.0	1125.0	80.31	-272.48	-0.41	-7.45	-2.62	-305.71
21	30	460.67	3.48	-2.85e-03	-543.96	0.0	59.57	272.68	-0.53	-8.52	3.48	-308.32
		-308.32	-3.27	2.26e-05	0.0	1125.0	59.57	-271.28	-0.53	-8.52	-3.27	-300.23
21	31	460.26	7.02	-3.32e-03	-543.96	0.0	78.47	273.33	0.46	8.99	-0.33	-312.15
		-312.15	-0.33	-1.84e-05	0.0	1125.0	78.47	-270.63	0.46	8.99	7.02	-297.22
21	32	459.13	6.54	-3.12e-03	-543.96	0.0	63.06	274.23	0.41	9.46	0.15	-318.60
		-318.60	0.15	1.46e-05	0.0	1125.0	63.06	-269.73	0.41	9.46	6.54	-293.02
21	33	461.52	3.60	-3.03e-03	-543.96	0.0	71.37	271.86	-0.38	-8.77	3.60	-302.60
		-304.25	-2.53	-5.26e-06	0.0	1125.0	71.37	-272.10	-0.38	-8.77	-2.53	-304.25
21	34	460.39	4.08	-2.83e-03	-543.96	0.0	55.96	272.76	-0.44	-8.30	4.08	-309.06
		-309.06	-3.00	7.40e-06	0.0	1125.0	55.96	-271.20	-0.44	-8.30	-3.00	-300.05
21	35	460.44	7.10	-3.33e-03	-543.96	0.0	81.13	273.18	0.49	9.76	0.31	-311.13
		-311.13	0.31	-1.74e-05	0.0	1125.0	81.13	-270.78	0.49	9.76	7.10	-297.87
21	36	458.95	6.46	-3.12e-03	-543.96	0.0	60.40	274.38	0.37	8.69	-0.48	-319.62
		-319.62	-0.48	-1.55e-05	0.0	1125.0	60.40	-269.58	0.37	8.69	6.46	-292.38
21	37	461.70	4.24	-3.03e-03	-543.96	0.0	74.03	271.71	-0.35	-8.00	4.24	-301.59
		-304.89	-2.44	6.10e-06	0.0	1125.0	74.03	-272.25	-0.35	-8.00	-2.44	-304.89
21	38	460.21	3.45	-2.82e-03	-543.96	0.0	53.30	272.91	-0.47	-9.07	3.45	-310.07
		-310.07	-3.09	-3.38e-06	0.0	1125.0	53.30	-271.05	-0.47	-9.07	-3.09	-299.40
21	39	461.88	4.28	-3.45e-03	-543.96	0.0	92.08	271.84	0.24	2.06	0.48	-301.80
		-304.33	0.48	-2.22e-05	0.0	1125.0	92.08	-272.12	0.24	2.06	4.28	-304.33
21	40	458.11	2.71	-2.78e-03	-543.96	0.0	40.72	274.83	0.07	3.63	2.08	-323.32
		-323.32	2.08	1.40e-05	0.0	1125.0	40.72	-269.13	0.07	3.63	2.71	-290.34
21	41	462.53	1.67	-3.37e-03	-543.96	0.0	93.71	271.26	-0.05	-2.94	1.67	-297.88
		-306.93	1.31	-9.61e-06	0.0	1125.0	93.71	-272.70	-0.05	-2.94	1.31	-306.93
21	42	458.77	3.28	-2.71e-03	-543.96	0.0	42.35	274.25	-0.22	-1.37	3.28	-319.41
		-319.41	-0.26	2.49e-05	0.0	1125.0	42.35	-269.71	-0.22	-1.37	-0.26	-292.94
21	43	462.02	4.23	-3.45e-03	-543.96	0.0	93.96	271.77	0.23	2.22	0.49	-301.27
		-304.58	0.49	-1.79e-05	0.0	1125.0	93.96	-272.19	0.23	2.22	4.23	-304.58
21	44	458.25	2.65	-2.79e-03	-543.96	0.0	42.60	274.76	0.05	3.80	2.09	-322.80
		-322.80	2.09	2.06e-05	0.0	1125.0	42.60	-269.20	0.05	3.80	2.65	-290.58
21	45	462.40	1.67	-3.36e-03	-543.96	0.0	91.83	271.33	-0.03	-3.11	1.67	-298.41
		-306.69	1.36	-1.32e-05	0.0	1125.0	91.83	-272.63	-0.03	-3.11	1.36	-306.69
21	46	458.63	3.27	-2.70e-03	-543.96	0.0	40.47	274.32	-0.20	-1.53	3.27	-319.93
		-319.93	-0.21	1.84e-05	0.0	1125.0	40.47	-269.64	-0.20	-1.53	-0.21	-292.69
21	47	462.49	4.57	-3.45e-03	-543.96	0.0	100.96	271.33	0.36	4.63	2.60	-298.42
		-306.48	2.60	-1.81e-05	0.0	1125.0	100.96	-272.63	0.36	4.63	4.57	-306.48
21	48	457.50	2.41	-2.77e-03	-543.96	0.0	31.84	275.34	-0.04	1.06	-0.04	-326.69
		-326.69	-0.04	-1.26e-05	0.0	1125.0	31.84	-268.62	-0.04	1.06	2.41	-288.19
21	49	463.15	3.79	-3.38e-03	-543.96	0.0	102.59	270.75	0.06	-0.37	3.79	-294.51
		-309.08	1.60	2.16e-05	0.0	1125.0	102.59	-273.21	0.06	-0.37	1.60	-309.08
21	50	458.16	1.16	-2.70e-03	-543.96	0.0	33.47	274.76	-0.33	-3.94	1.16	-322.78
		-322.78	-0.56	3.57e-06	0.0	1125.0	33.47	-269.20	-0.33	-3.94	-0.56	-290.79
21	51	462.63	4.52	-3.46e-03	-543.96	0.0	102.84	271.26	0.34	4.79	2.60	-297.90
		-306.73	2.60	1.73e-05	0.0	1125.0	102.84	-272.70	0.34	4.79	4.52	-306.73
21	52	457.64	2.36	-2.78e-03	-543.96	0.0	33.72	275.27	-0.06	1.23	-0.03	-326.17
		-326.17	-0.03	-8.23e-06	0.0	1125.0	33.72	-268.69	-0.06	1.23	2.36	-288.44
21	53	463.01	3.78	-3.37e-03	-543.96	0.0	100.71	270.82	0.08	-0.54	3.78	-295.04
		-308.84	1.66	1.50e-05	0.0	1125.0	100.71	-273.14	0.08	-0.54	1.66	-308.84
21	54	458.02	1.15	-2.69e-03	-543.96	0.0	31.59	274.83	-0.31	-4.10	1.15	-323.31
		-323.31	-0.50	-3.62e-06	0.0	1125.0	31.59	-269.13	-0.31	-4.10	-0.50	-290.54
21	55	418.31	1.82	-2.80e-03	-493.87	0.0	60.30	247.90	0.01	0.29	1.71	-281.62
		-281.62	1.71	-8.37e-06	0.0	1125.0	60.30	-245.97	0.01	0.29	1.82	-270.78
21	56	460.32	2.01	-3.08e-03	-543.96	0.0	67.22	273.04	0.01	0.34	1.88	-310.60
		-310.60	1.88	-9.34e-06	0.0	1125.0	67.22	-270.92	0.01	0.34	2.01	-298.64
22	1	567.03	1.59	-3.96e-03	-667.08	0.0	96.51	334.47	-0.09	-1.57	1.59	-376.28
		-376.28	0.58	7.56e-06	0.0	1125.0	96.51	-332.61	-0.09	-1.57	0.58	-365.82
22	2	567.10	1.60	-3.96e-03	-667.08	0.0	96.29	334.47	-0.09	-1.58	1.60	-376.20
		-376.20	0.58	7.63e-06	0.0	1125.0	96.29	-332.61	-0.09	-1.58	0.58	-365.76
22	3	777.36	2.20	-5.35e-03	-917.50	0.0	131.92	460.30	-0.13	-2.09	2.20	-521.57
		-521.57	0.77	1.14e-05	0.0	1125.0	131.92	-457.21	-0.13	-2.09	0.77	-504.19
22	4	777.43	2.20	-5.35e-03	-917.50	0.0	131.70	460.30	-0.13	-2.10	2.20	-521.49
		-521.49	0.78	1.15e-05	0.0	1125.0	131.70	-457.21	-0.13	-2.10	0.78	-504.13
22	5	312.09	0.92	-2.25e-03	-368.66	0.0	65.68	184.65	-0.05	-1.00	0.92	-208.14
		-208.14	0.39	-3.04e-06	0.0	1125.0	65.68	-184.01	-0.05	-1.00	0.39	-204.55
22	6	312.15	0.92	-2.25e-03	-368.66	0.0	65.46	184.65	-0.05	-1.01	0.92	-208.07
		-208.07	0.39	-3.04e-06	0.0	1125.0	65.46	-184.01	-0.05	-1.01	0.39	-204.49
22	7	522.42	1.52	-3.64e-03	-619.09	0.0	101.09	310.48	-0.08	-1.52	1.52	-353.43
		-353.43	0.58	6.77e-06	0.0	1125.0	101.09	-308.61	-0.08	-1.52	0.58	-342.92
22	8	522.48	1.53	-3.64e-03	-619.09	0.0	100.87	310.48	-0.08	-1.53	1.53	-353.36

		-353.36	0.59	6.84e-06	0.0	1125.0	100.87	-308.61	-0.08	-1.53	0.59	-342.86
22	9	567.16	1.60	-3.96e-03	-667.08	0.0	96.07	334.47	-0.09	-1.59	1.60	-376.13
		-376.13	0.59	7.70e-06	0.0	1125.0	96.07	-332.61	-0.09	-1.59	0.59	-365.71
22	10	714.26	2.01	-4.93e-03	-842.38	0.0	121.30	422.55	-0.12	-1.93	2.01	-477.98
		-477.98	0.71	1.03e-05	0.0	1125.0	121.30	-419.83	-0.12	-1.93	0.71	-462.68
22	11	714.40	2.03	-4.93e-03	-842.38	0.0	120.85	422.55	-0.12	-1.95	2.03	-477.83
		-477.83	0.72	1.04e-05	0.0	1125.0	120.85	-419.83	-0.12	-1.95	0.72	-462.56
22	12	312.22	0.93	-2.25e-03	-368.66	0.0	65.24	184.65	-0.05	-1.02	0.93	-207.99
		-207.99	0.40	-3.05e-06	0.0	1125.0	65.24	-184.01	-0.05	-1.02	0.40	-204.43
22	13	459.32	1.34	-3.22e-03	-543.96	0.0	90.47	272.73	-0.07	-1.37	1.34	-309.85
		-309.85	0.52	5.61e-06	0.0	1125.0	90.47	-271.23	-0.07	-1.37	0.52	-301.40
22	14	459.45	1.35	-3.22e-03	-543.96	0.0	90.03	272.73	-0.07	-1.39	1.35	-309.69
		-309.69	0.53	5.75e-06	0.0	1125.0	90.03	-271.23	-0.07	-1.39	0.53	-301.29
22	15	568.12	1.43	-4.07e-03	-667.08	0.0	106.71	334.05	-0.07	-1.64	1.43	-372.82
		-372.82	0.68	-5.18e-06	0.0	1125.0	106.71	-333.03	-0.07	-1.64	0.68	-367.09
22	16	568.19	1.44	-4.07e-03	-667.08	0.0	106.49	334.05	-0.07	-1.65	1.44	-372.74
		-372.74	0.68	-5.18e-06	0.0	1125.0	106.49	-333.03	-0.07	-1.65	0.68	-367.04
22	17	715.36	1.86	-5.04e-03	-842.38	0.0	131.50	422.13	-0.09	-2.01	1.86	-474.52
		-474.52	0.82	6.66e-06	0.0	1125.0	131.50	-420.25	-0.09	-2.01	0.82	-463.95
22	18	715.42	1.86	-5.04e-03	-842.38	0.0	131.28	422.13	-0.09	-2.02	1.86	-474.45
		-474.45	0.82	6.73e-06	0.0	1125.0	131.28	-420.25	-0.09	-2.02	0.82	-463.89
22	19	313.18	0.76	-2.36e-03	-368.66	0.0	75.89	184.23	-0.02	-1.08	0.76	-204.68
		-205.82	0.49	-4.43e-06	0.0	1125.0	75.89	-184.43	-0.02	-1.08	0.49	-205.82
22	20	313.25	0.77	-2.36e-03	-368.66	0.0	75.66	184.23	-0.02	-1.09	0.77	-204.61
		-205.76	0.49	-4.43e-06	0.0	1125.0	75.66	-184.43	-0.02	-1.09	0.49	-205.76
22	21	460.41	1.18	-3.33e-03	-543.96	0.0	100.67	272.31	-0.05	-1.44	1.18	-306.39
		-306.39	0.62	-5.01e-06	0.0	1125.0	100.67	-271.65	-0.05	-1.44	0.62	-302.68
22	22	460.48	1.19	-3.33e-03	-543.96	0.0	100.45	272.31	-0.05	-1.45	1.19	-306.31
		-306.31	0.63	-5.01e-06	0.0	1125.0	100.45	-271.65	-0.05	-1.45	0.63	-302.62
22	23	461.51	4.91	-3.19e-03	-543.96	0.0	75.50	272.48	0.44	11.79	-1.92	-306.16
		-306.16	-1.92	-2.05e-05	0.0	1125.0	75.50	-271.48	0.44	11.79	4.91	-300.71
22	24	460.18	4.44	-2.98e-03	-543.96	0.0	58.22	273.45	0.39	12.27	-1.36	-313.14
		-313.14	-1.36	-1.51e-05	0.0	1125.0	58.22	-270.51	0.39	12.27	4.44	-296.39
22	25	460.59	4.34	-3.19e-03	-543.96	0.0	77.66	273.09	-0.59	-14.66	4.34	-310.49
		-310.49	-3.73	2.76e-05	0.0	1125.0	77.66	-270.87	-0.59	-14.66	-3.73	-298.21
22	26	459.26	4.90	-2.98e-03	-543.96	0.0	60.38	274.06	-0.65	-14.18	4.90	-317.47
		-317.47	-4.21	3.49e-05	0.0	1125.0	60.38	-269.90	-0.65	-14.18	-4.21	-293.89
22	27	461.41	5.07	-3.18e-03	-543.96	0.0	74.80	272.51	0.49	12.42	-2.09	-306.42
		-306.42	-2.09	-1.60e-05	0.0	1125.0	74.80	-271.45	0.49	12.42	5.07	-300.65
22	28	460.28	4.28	-3.00e-03	-543.96	0.0	58.92	273.42	0.34	11.63	-1.18	-312.88
		-312.88	-1.18	-1.94e-05	0.0	1125.0	58.92	-270.54	0.34	11.63	4.28	-296.45
22	29	460.49	4.16	-3.18e-03	-543.96	0.0	76.96	273.12	-0.54	-14.03	4.16	-310.75
		-310.75	-3.57	3.38e-05	0.0	1125.0	76.96	-270.84	-0.54	-14.03	-3.57	-298.15
22	30	459.36	5.08	-2.99e-03	-543.96	0.0	61.08	274.03	-0.69	-14.81	5.08	-317.21
		-317.21	-4.37	2.86e-05	0.0	1125.0	61.08	-269.93	-0.69	-14.81	-4.37	-293.95
22	31	461.67	4.61	-3.20e-03	-543.96	0.0	74.93	272.46	0.36	12.18	-1.69	-305.88
		-305.88	-1.69	7.48e-06	0.0	1125.0	74.93	-271.50	0.36	12.18	4.61	-300.67
22	32	460.34	4.13	-2.99e-03	-543.96	0.0	57.65	273.43	0.30	12.66	-1.14	-312.86
		-312.86	-1.14	1.48e-05	0.0	1125.0	57.65	-270.53	0.30	12.66	4.13	-296.35
22	33	460.43	4.12	-3.18e-03	-543.96	0.0	78.22	273.11	-0.51	-15.05	4.12	-310.77
		-310.77	-3.43	7.19e-06	0.0	1125.0	78.22	-270.85	-0.51	-15.05	-3.43	-298.25
22	34	459.10	4.68	-2.97e-03	-543.96	0.0	60.95	274.08	-0.56	-14.57	4.68	-317.75
		-317.75	-3.91	1.41e-05	0.0	1125.0	60.95	-269.88	-0.56	-14.57	-3.91	-293.93
22	35	461.57	4.77	-3.19e-03	-543.96	0.0	74.23	272.49	0.41	12.82	-1.87	-306.14
		-306.14	-1.87	1.38e-05	0.0	1125.0	74.23	-271.47	0.41	12.82	4.77	-300.61
22	36	460.44	3.97	-3.01e-03	-543.96	0.0	58.35	273.40	0.26	12.03	-0.96	-312.60
		-312.60	-0.96	8.52e-06	0.0	1125.0	58.35	-270.56	0.26	12.03	3.97	-296.41
22	37	460.34	3.94	-3.17e-03	-543.96	0.0	77.53	273.14	-0.46	-14.42	3.94	-311.03
		-311.03	-3.27	1.29e-05	0.0	1125.0	77.53	-270.82	-0.46	-14.42	-3.27	-298.19
22	38	459.20	4.86	-2.98e-03	-543.96	0.0	61.65	274.05	-0.61	-15.21	4.86	-317.49
		-317.49	-4.07	8.44e-06	0.0	1125.0	61.65	-269.91	-0.61	-15.21	-4.07	-293.99
22	39	462.74	2.44	-3.44e-03	-543.96	0.0	96.41	271.57	0.15	1.97	-0.38	-299.54
		-304.87	-0.38	-1.22e-05	0.0	1125.0	96.41	-272.39	0.15	1.97	2.44	-304.87
22	40	458.31	1.49	-2.74e-03	-543.96	0.0	38.82	274.79	-0.04	3.57	1.49	-322.79
		-322.79	0.86	1.65e-05	0.0	1125.0	38.82	-269.17	-0.04	3.57	0.86	-290.48
22	41	462.47	1.50	-3.44e-03	-543.96	0.0	97.05	271.75	-0.16	-5.97	1.50	-300.83
		-304.12	-0.15	4.55e-06	0.0	1125.0	97.05	-272.21	-0.16	-5.97	-0.15	-304.12
22	42	458.03	3.36	-2.74e-03	-543.96	0.0	39.47	274.97	-0.35	-4.36	3.36	-324.09
		-324.09	-1.74	2.89e-05	0.0	1125.0	39.47	-268.99	-0.35	-4.36	-1.74	-289.73
22	43	462.79	2.35	-3.44e-03	-543.96	0.0	96.24	271.57	0.13	2.09	-0.31	-299.45
		-304.86	-0.31	-7.83e-06	0.0	1125.0	96.24	-272.39	0.13	2.09	2.35	-304.86
22	44	458.35	1.55	-2.74e-03	-543.96	0.0	38.65	274.78	-0.07	3.69	1.55	-322.71
		-322.71	0.77	2.29e-05	0.0	1125.0	38.65	-269.18	-0.07	3.69	0.77	-290.47
22	45	462.42	1.43	-3.43e-03	-543.96	0.0	97.22	271.76	-0.13	-6.08	1.43	-300.92
		-304.13	-0.06	-5.41e-06	0.0	1125.0	97.22	-272.20	-0.13	-6.08	-0.06	-304.13
22	46	457.98	3.30	-2.73e-03	-543.96	0.0	39.64	274.97	-0.33	-4.48	3.30	-324.18
		-324.18	-1.65	2.25e-05	0.0	1125.0	39.64	-268.99	-0.33	-4.48	-1.65	-289.74
22	47	462.41	2.98	-3.40e-03	-543.96	0.0	94.08	271.66	0.30	4.09	-0.97	-300.39
		-304.67	-0.97	1.31e-05	0.0	1125.0	94.08	-272.30	0.30	4.09	2.98	-304.67
22	48	458.64	2.08	-2.78e-03	-543.96	0.0	41.15	274.70	-0.19	1.46	2.08	-321.94
		-321.94	0.32	-1.01e-05	0.0	1125.0	41.15	-269.26	-0.19	1.46	0.32	-290.68
22	49	462.14	0.90	-3.40e-03	-543.96	0.0	94.73	271.84	-0.01	-3.85	0.90	-301.69
		-303.92	0.38	2.55e-05	0.0	1125.0	94.73	-272.12	-0.01	-3.85	0.38	-303.92
22	50	458.36	3.96	-2.78e-03	-543.96	0.0	41.80	274.88	-0.50	-6.48	3.96	-323.23
		-323.23	-2.27	8.00e-06	0.0	1125.0	41.80	-269.08	-0.50	-6.48	-2.27	-289.93
22	51	462.46	2.89	-3.40e-03	-543.96	0.0	93.91	271.65	0.27	4.20	-0.91	-300.31
		-304.66	-0.91	1.94e-05	0.0	1125.0	93.91	-272.31	0.27	4.20	2.89	-304.66
22	52	458.68	2.15	-2.78e-03	-543.96	0.0	40.98	274.69	-0.22	1.57	2.15	-321.85
		-321.85	0.23	-7.04e-06	0.0	1125.0	40.98	-269.27	-0.22	1.57	0.23	-290.67
22	53	462.09	0.84	-3.39e-03	-543.96	0.0	94.90	271.85	0.01	-3.97	0.84	-301.78
		-303.93	0.47	1.91e-05	0.0	1125.0	94.90	-272.11	0.01	-3.97	0.47	-303.93
22	54	458.31	3.89	-2.77e-03	-543.96	0.0	41.97	274.89	-0.48	-6.60	3.89	-323.32
		-323.32	-2.18	-6.43e-06	0.0	1125.0	41.97	-269.07	-0.48	-6.60	-2.18	-289.94
22	55	418.32	1.37	-2.81e-03	-493.87	0.0	60.86	248.10	-0.09	-1.09	1.37	-282.76
		-282.76	0.31	9.76e-06	0.0	1125.0	60.86	-245.77	-0.09	-1.09	0.31	-269.63
22	56	460.39	1.49	-3.09e-03	-543.96	0.0	67.94	273.27	-0.10	-1.20	1.49	-311.81

		-311.81	0.35	1.05e-05	0.0	1125.0	67.94	-270.69	-0.10	-1.20	0.35	-297.30
23	1	566.88	0.57	-3.87e-03	-667.08	0.0	94.15	333.98	-0.17	-1.47	0.57	-373.69
		-373.69	-1.32	1.30e-05	0.0	1125.0	94.15	-333.10	-0.17	-1.47	-1.32	-368.72
23	2	566.94	0.57	-3.87e-03	-667.08	0.0	93.93	333.97	-0.17	-1.48	0.57	-373.58
		-373.58	-1.34	1.31e-05	0.0	1125.0	93.93	-333.11	-0.17	-1.48	-1.34	-368.70
23	3	777.14	0.70	-5.23e-03	-917.50	0.0	127.56	459.71	-0.22	-1.90	0.70	-518.47
		-518.47	-1.77	1.92e-05	0.0	1125.0	127.56	-457.80	-0.22	-1.90	-1.77	-507.74
23	4	777.20	0.70	-5.23e-03	-917.50	0.0	127.34	459.70	-0.22	-1.90	0.70	-518.36
		-518.36	-1.78	1.93e-05	0.0	1125.0	127.34	-457.81	-0.22	-1.90	-1.78	-507.71
23	5	312.07	0.31	-2.20e-03	-368.66	0.0	64.97	184.30	-0.10	-0.97	0.31	-206.20
		-206.52	-0.78	6.39e-06	0.0	1125.0	64.97	-184.36	-0.10	-0.97	-0.78	-206.52
23	6	312.14	0.31	-2.20e-03	-368.66	0.0	64.75	184.30	-0.10	-0.97	0.31	-206.09
		-206.50	-0.80	6.47e-06	0.0	1125.0	64.75	-184.37	-0.10	-0.97	-0.80	-206.50
23	7	522.33	0.44	-3.56e-03	-619.09	0.0	98.38	310.03	-0.15	-1.39	0.44	-350.98
		-350.98	-1.23	1.25e-05	0.0	1125.0	98.38	-309.06	-0.15	-1.39	-1.23	-345.54
23	8	522.40	0.44	-3.56e-03	-619.09	0.0	98.16	310.02	-0.15	-1.40	0.44	-350.87
		-350.87	-1.24	1.26e-05	0.0	1125.0	98.16	-309.07	-0.15	-1.40	-1.24	-345.51
23	9	567.01	0.57	-3.87e-03	-667.08	0.0	93.71	333.97	-0.17	-1.48	0.57	-373.47
		-373.47	-1.35	1.32e-05	0.0	1125.0	93.71	-333.11	-0.17	-1.48	-1.35	-368.67
23	10	714.06	0.66	-4.82e-03	-842.38	0.0	117.53	421.99	-0.20	-1.77	0.66	-475.04
		-475.04	-1.63	1.74e-05	0.0	1125.0	117.53	-420.39	-0.20	-1.77	-1.63	-466.03
23	11	714.19	0.66	-4.82e-03	-842.38	0.0	117.10	421.97	-0.21	-1.78	0.66	-474.82
		-474.82	-1.67	1.75e-05	0.0	1125.0	117.10	-420.40	-0.21	-1.78	-1.67	-465.98
23	12	312.20	0.31	-2.20e-03	-368.66	0.0	64.53	184.29	-0.10	-0.98	0.31	-205.98
		-206.47	-0.81	6.56e-06	0.0	1125.0	64.53	-184.37	-0.10	-0.98	-0.81	-206.47
23	13	459.25	0.40	-3.15e-03	-543.96	0.0	88.36	272.31	-0.13	-1.27	0.40	-307.55
		-307.55	-1.09	1.06e-05	0.0	1125.0	88.36	-271.65	-0.13	-1.27	-1.09	-303.83
23	14	459.39	0.41	-3.15e-03	-543.96	0.0	87.92	272.30	-0.14	-1.28	0.41	-307.33
		-307.33	-1.13	1.08e-05	0.0	1125.0	87.92	-271.66	-0.14	-1.28	-1.13	-303.78
23	15	567.93	0.41	-3.98e-03	-667.08	0.0	105.47	333.53	-0.15	-1.52	0.41	-370.07
		-370.24	-1.24	9.74e-06	0.0	1125.0	105.47	-333.55	-0.15	-1.52	-1.24	-370.24
23	16	567.99	0.41	-3.98e-03	-667.08	0.0	105.26	333.52	-0.15	-1.52	0.41	-369.97
		-370.21	-1.26	9.82e-06	0.0	1125.0	105.26	-333.56	-0.15	-1.52	-1.26	-370.21
23	17	715.11	0.50	-4.94e-03	-842.38	0.0	128.86	421.53	-0.18	-1.82	0.50	-471.42
		-471.42	-1.55	1.40e-05	0.0	1125.0	128.86	-420.84	-0.18	-1.82	-1.55	-467.55
23	18	715.18	0.50	-4.94e-03	-842.38	0.0	128.64	421.53	-0.18	-1.82	0.50	-471.31
		-471.31	-1.57	1.41e-05	0.0	1125.0	128.64	-420.85	-0.18	-1.82	-1.57	-467.52
23	19	313.12	0.15	-2.31e-03	-368.66	0.0	76.30	183.85	-0.08	-1.01	0.15	-202.58
		-208.04	-0.70	3.44e-06	0.0	1125.0	76.30	-184.82	-0.08	-1.01	-0.70	-208.04
23	20	313.19	0.16	-2.31e-03	-368.66	0.0	76.08	183.84	-0.08	-1.02	0.16	-202.48
		-208.01	-0.72	3.53e-06	0.0	1125.0	76.08	-184.82	-0.08	-1.02	-0.72	-208.01
23	21	460.30	0.25	-3.26e-03	-543.96	0.0	99.68	271.85	-0.11	-1.31	0.25	-303.93
		-305.35	-1.01	7.46e-06	0.0	1125.0	99.68	-272.11	-0.11	-1.31	-1.01	-305.35
23	22	460.37	0.25	-3.26e-03	-543.96	0.0	99.47	271.85	-0.11	-1.32	0.25	-303.82
		-305.32	-1.03	7.55e-06	0.0	1125.0	99.47	-272.11	-0.11	-1.32	-1.03	-305.32
23	23	460.94	3.34	-3.12e-03	-543.96	0.0	70.89	272.57	0.40	11.73	-3.03	-307.27
		-307.27	-3.03	-1.22e-05	0.0	1125.0	70.89	-271.39	0.40	11.73	3.34	-300.74
23	24	459.49	2.86	-2.90e-03	-543.96	0.0	51.04	273.62	0.35	12.15	-2.54	-314.80
		-314.80	-2.54	-5.59e-06	0.0	1125.0	51.04	-270.34	0.35	12.15	2.86	-296.12
23	25	461.15	3.81	-3.12e-03	-543.96	0.0	78.00	272.22	-0.67	-14.42	3.81	-305.03
		-305.03	-5.19	3.46e-05	0.0	1125.0	78.00	-271.74	-0.67	-14.42	-5.19	-302.55
23	26	459.70	4.29	-2.90e-03	-543.96	0.0	58.15	273.27	-0.72	-14.00	4.29	-312.56
		-312.56	-5.67	4.18e-05	0.0	1125.0	58.15	-270.69	-0.72	-14.00	-5.67	-297.93
23	27	460.72	2.70	-3.10e-03	-543.96	0.0	68.10	272.71	0.31	12.28	-3.20	-308.26
		-308.26	-3.20	-5.31e-06	0.0	1125.0	68.10	-271.25	0.31	12.28	2.70	-300.19
23	28	459.71	3.49	-2.93e-03	-543.96	0.0	53.83	273.48	0.44	11.59	-2.37	-313.80
		-313.80	-2.37	-1.26e-05	0.0	1125.0	53.83	-270.48	0.44	11.59	3.49	-296.67
23	29	460.93	3.64	-3.10e-03	-543.96	0.0	75.21	272.36	-0.76	-13.86	3.64	-306.03
		-306.03	-5.83	4.15e-05	0.0	1125.0	75.21	-271.60	-0.76	-13.86	-5.83	-302.00
23	30	459.92	4.46	-2.93e-03	-543.96	0.0	60.93	273.14	-0.63	-14.56	4.46	-311.57
		-311.57	-5.04	3.51e-05	0.0	1125.0	60.93	-270.82	-0.63	-14.56	-5.04	-298.48
23	31	461.11	3.07	-3.12e-03	-543.96	0.0	70.60	272.57	0.33	12.06	-2.83	-307.12
		-307.12	-2.83	1.04e-05	0.0	1125.0	70.60	-271.39	0.33	12.06	3.07	-300.55
23	32	459.66	2.59	-2.90e-03	-543.96	0.0	50.75	273.63	0.28	12.48	-2.34	-314.65
		-314.65	-2.34	1.79e-05	0.0	1125.0	50.75	-270.33	0.28	12.48	2.59	-295.93
23	33	460.98	3.61	-3.13e-03	-543.96	0.0	78.28	272.22	-0.60	-14.75	3.61	-305.18
		-305.18	-4.93	1.62e-05	0.0	1125.0	78.28	-271.74	-0.60	-14.75	-4.93	-302.74
23	34	459.53	4.09	-2.91e-03	-543.96	0.0	58.43	273.27	-0.65	-14.33	4.09	-312.71
		-312.71	-5.41	2.27e-05	0.0	1125.0	58.43	-270.69	-0.65	-14.33	-5.41	-298.12
23	35	460.89	2.44	-3.09e-03	-543.96	0.0	67.82	272.71	0.24	12.61	-3.00	-308.12
		-308.12	-3.00	1.68e-05	0.0	1125.0	67.82	-271.25	0.24	12.61	2.44	-300.00
23	36	459.88	3.23	-2.92e-03	-543.96	0.0	53.54	273.49	0.37	11.92	-2.17	-313.65
		-313.65	-2.17	1.15e-05	0.0	1125.0	53.54	-270.47	0.37	11.92	3.23	-296.48
23	37	460.76	3.44	-3.10e-03	-543.96	0.0	75.50	272.35	-0.69	-14.19	3.44	-306.18
		-306.18	-5.56	2.32e-05	0.0	1125.0	75.50	-271.61	-0.69	-14.19	-5.56	-302.19
23	38	459.75	4.26	-2.94e-03	-543.96	0.0	61.22	273.13	-0.56	-14.89	4.26	-311.71
		-311.71	-4.77	1.57e-05	0.0	1125.0	61.22	-270.83	-0.56	-14.89	-4.77	-298.67
23	39	462.71	0.91	-3.38e-03	-543.96	0.0	96.54	271.22	0.08	2.09	-1.20	-297.70
		-306.77	-1.20	-4.04e-06	0.0	1125.0	96.54	-272.74	0.08	2.09	0.91	-306.77
23	40	457.87	0.42	-2.65e-03	-543.96	0.0	30.37	274.72	-0.08	3.48	0.42	-322.80
		-322.80	-0.69	2.10e-05	0.0	1125.0	30.37	-269.24	-0.08	3.48	-0.69	-291.36
23	41	462.77	0.85	-3.38e-03	-543.96	0.0	98.67	271.12	-0.24	-5.76	0.85	-297.03
		-307.32	-1.65	1.02e-05	0.0	1125.0	98.67	-272.84	-0.24	-5.76	-1.65	-307.32
23	42	457.93	2.47	-2.65e-03	-543.96	0.0	32.50	274.62	-0.40	-4.36	2.47	-322.13
		-322.13	-3.25	3.43e-05	0.0	1125.0	32.50	-269.34	-0.40	-4.36	-3.25	-291.90
23	43	462.76	0.83	-3.38e-03	-543.96	0.0	96.45	271.22	0.06	2.18	-1.14	-297.66
		-306.72	-1.14	2.33e-06	0.0	1125.0	96.45	-272.74	0.06	2.18	0.83	-306.72
23	44	457.92	0.48	-2.64e-03	-543.96	0.0	30.28	274.73	-0.10	3.58	0.48	-322.75
		-322.75	-0.77	2.73e-05	0.0	1125.0	30.28	-269.23	-0.10	3.58	-0.77	-291.30
23	45	462.72	0.79	-3.38e-03	-543.96	0.0	98.75	271.12	-0.22	-5.86	0.79	-297.08
		-307.37	-1.57	5.06e-06	0.0	1125.0	98.75	-272.84	-0.22	-5.86	-1.57	-307.37
23	46	457.88	2.41	-2.65e-03	-543.96	0.0	32.59	274.62	-0.38	-4.46	2.41	-322.17
		-322.17	-3.17	2.80e-05	0.0	1125.0	32.59	-269.34	-0.38	-4.46	-3.17	-291.96
23	47	461.97	-1.20	-3.29e-03	-543.96	0.0	87.24	271.68	-0.23	3.94	-1.76	-301.02
		-304.93	-1.76	2.00e-05	0.0	1125.0	87.24	-272.28	-0.23	3.94	-1.20	-304.93
23	48	458.61	1.43	-2.74e-03	-543.96	0.0	39.66	274.27	0.23	1.63	0.98	-319.48

		-319.48	0.98	-8.04e-06	0.0	1125.0	39.66	-269.69	0.23	1.63	1.43	-293.20
23	49	462.03	0.29	-3.29e-03	-543.96	0.0	89.38	271.57	-0.55	-3.91	0.29	-300.35
		-305.47	-3.76	3.35e-05	0.0	1125.0	89.38	-272.39	-0.55	-3.91	-3.76	-305.47
23	50	458.67	3.03	-2.73e-03	-543.96	0.0	41.79	274.16	-0.09	-6.21	3.03	-318.81
		-318.81	-1.13	1.30e-05	0.0	1125.0	41.79	-269.80	-0.09	-6.21	-1.13	-293.74
23	51	462.02	-1.28	-3.29e-03	-543.96	0.0	87.16	271.68	-0.25	4.04	-1.70	-300.98
		-304.87	-1.70	2.50e-05	0.0	1125.0	87.16	-272.28	-0.25	4.04	-1.28	-304.87
23	52	458.66	1.35	-2.73e-03	-543.96	0.0	39.57	274.27	0.21	1.73	1.04	-319.43
		-319.43	1.04	6.02e-06	0.0	1125.0	39.57	-269.69	0.21	1.73	1.35	-293.14
23	53	461.98	0.23	-3.29e-03	-543.96	0.0	89.46	271.57	-0.53	-4.01	0.23	-300.40
		-305.53	-3.68	2.82e-05	0.0	1125.0	89.46	-272.39	-0.53	-4.01	-3.68	-305.53
23	54	458.62	2.97	-2.74e-03	-543.96	0.0	41.88	274.16	-0.07	-6.31	2.97	-318.85
		-318.85	-1.05	6.62e-06	0.0	1125.0	41.88	-269.80	-0.07	-6.31	-1.05	-293.80
23	55	418.27	0.61	-2.74e-03	-493.87	0.0	57.84	247.78	-0.15	-1.05	0.61	-280.96
		-280.96	-1.08	1.39e-05	0.0	1125.0	57.84	-246.10	-0.15	-1.05	-1.08	-271.53
23	56	460.32	0.63	-3.01e-03	-543.96	0.0	64.52	272.92	-0.16	-1.14	0.63	-309.91
		-309.91	-1.17	1.51e-05	0.0	1125.0	64.52	-271.04	-0.16	-1.14	-1.17	-299.34
24	1	516.79	-1.97	-3.16e-03	-608.28	0.0	81.85	312.37	-0.23	-2.16	-1.97	-329.78
		-347.43	-4.57	3.23e-05	0.0	1125.0	81.85	-295.91	-0.23	-2.16	-4.57	-347.43
24	2	516.84	-1.98	-3.16e-03	-608.28	0.0	81.68	312.34	-0.23	-2.15	-1.98	-329.54
		-347.56	-4.60	3.25e-05	0.0	1125.0	81.68	-295.94	-0.23	-2.15	-4.60	-347.56
24	3	699.35	-2.55	-4.22e-03	-824.62	0.0	107.44	426.24	-0.33	-2.64	-2.55	-451.54
		-468.99	-6.21	4.45e-05	0.0	1125.0	107.44	-398.38	-0.33	-2.64	-6.21	-468.99
24	4	699.40	-2.55	-4.21e-03	-824.62	0.0	107.26	426.21	-0.33	-2.63	-2.55	-451.31
		-469.12	-6.24	4.47e-05	0.0	1125.0	107.26	-398.41	-0.33	-2.63	-6.24	-469.12
24	5	290.25	-1.54	-1.82e-03	-343.10	0.0	58.90	174.39	-0.09	-1.51	-1.54	-184.22
		-200.24	-2.58	1.90e-05	0.0	1125.0	58.90	-168.71	-0.09	-1.51	-2.58	-200.24
24	6	290.30	-1.55	-1.82e-03	-343.10	0.0	58.72	174.35	-0.09	-1.49	-1.55	-183.98
		-200.37	-2.60	1.91e-05	0.0	1125.0	58.72	-168.74	-0.09	-1.49	-2.60	-200.37
24	7	472.81	-2.12	-2.88e-03	-559.43	0.0	84.48	288.25	-0.19	-1.99	-2.12	-305.98
		-321.80	-4.21	3.12e-05	0.0	1125.0	84.48	-271.18	-0.19	-1.99	-4.21	-321.80
24	8	472.86	-2.12	-2.87e-03	-559.43	0.0	84.30	288.22	-0.19	-1.97	-2.12	-305.75
		-321.94	-4.24	3.13e-05	0.0	1125.0	84.30	-271.21	-0.19	-1.97	-4.24	-321.94
24	9	516.90	-1.98	-3.15e-03	-608.28	0.0	81.50	312.31	-0.24	-2.13	-1.98	-329.31
		-347.69	-4.63	3.26e-05	0.0	1125.0	81.50	-295.97	-0.24	-2.13	-4.63	-347.69
24	10	644.58	-2.37	-3.90e-03	-759.72	0.0	99.76	392.08	-0.30	-2.50	-2.37	-415.01
		-432.52	-5.72	4.09e-05	0.0	1125.0	99.76	-367.64	-0.30	-2.50	-5.72	-432.52
24	11	644.69	-2.39	-3.89e-03	-759.72	0.0	99.41	392.01	-0.30	-2.47	-2.39	-414.54
		-432.78	-5.77	4.11e-05	0.0	1125.0	99.41	-367.70	-0.30	-2.47	-5.77	-432.78
24	12	290.35	-1.55	-1.81e-03	-343.10	0.0	58.55	174.32	-0.10	-1.48	-1.55	-183.75
		-200.50	-2.63	1.93e-05	0.0	1125.0	58.55	-168.78	-0.10	-1.48	-2.63	-200.50
24	13	418.04	-1.94	-2.56e-03	-494.53	0.0	76.80	254.09	-0.16	-1.84	-1.94	-269.46
		-285.33	-3.72	2.75e-05	0.0	1125.0	76.80	-240.44	-0.16	-1.84	-3.72	-285.33
24	14	418.15	-1.95	-2.55e-03	-494.53	0.0	76.45	254.03	-0.16	-1.81	-1.95	-268.98
		-285.60	-3.78	2.78e-05	0.0	1125.0	76.45	-240.51	-0.16	-1.81	-3.78	-285.60
24	15	517.18	-2.60	-3.27e-03	-608.28	0.0	95.45	311.87	-0.13	-2.23	-2.60	-326.59
		-349.84	-4.08	3.01e-05	0.0	1125.0	95.45	-296.41	-0.13	-2.23	-4.08	-349.84
24	16	517.23	-2.61	-3.27e-03	-608.28	0.0	95.28	311.84	-0.13	-2.21	-2.61	-326.35
		-349.97	-4.10	3.03e-05	0.0	1125.0	95.28	-296.44	-0.13	-2.21	-4.10	-349.97
24	17	644.97	-3.00	-4.01e-03	-759.72	0.0	113.36	391.58	-0.20	-2.56	-3.00	-411.82
		-434.94	-5.22	3.86e-05	0.0	1125.0	113.36	-368.13	-0.20	-2.56	-5.22	-434.94
24	18	645.02	-3.01	-4.01e-03	-759.72	0.0	113.19	391.55	-0.20	-2.55	-3.01	-411.59
		-435.07	-5.25	3.88e-05	0.0	1125.0	113.19	-368.17	-0.20	-2.55	-5.25	-435.07
24	19	290.64	-2.08	-1.93e-03	-343.10	0.0	72.50	173.89	7.86e-03	-1.57	-2.17	-181.03
		-202.65	-2.17	1.71e-05	0.0	1125.0	72.50	-169.21	7.86e-03	-1.57	-2.08	-202.65
24	20	290.69	-2.11	-1.93e-03	-343.10	0.0	72.32	173.86	5.96e-03	-1.56	-2.17	-180.80
		-202.78	-2.17	1.72e-05	0.0	1125.0	72.32	-169.24	5.96e-03	-1.56	-2.11	-202.78
24	21	418.43	-2.57	-2.67e-03	-494.53	0.0	90.41	253.59	-0.06	-1.91	-2.57	-266.27
		-287.75	-3.23	2.54e-05	0.0	1125.0	90.41	-240.94	-0.06	-1.91	-3.23	-287.75
24	22	418.48	-2.58	-2.67e-03	-494.53	0.0	90.23	253.56	-0.06	-1.89	-2.58	-266.03
		-287.88	-3.25	2.55e-05	0.0	1125.0	90.23	-240.97	-0.06	-1.89	-3.25	-287.88
24	23	421.02	-0.45	-2.48e-03	-494.53	0.0	55.89	253.68	0.19	10.92	-4.01	-264.05
		-284.78	-4.01	1.18e-05	0.0	1125.0	55.89	-240.85	0.19	10.92	-0.45	-284.78
24	24	420.36	0.08	-2.26e-03	-494.53	0.0	30.54	254.96	0.16	11.49	-3.54	-271.88
		-278.27	-3.54	1.17e-05	0.0	1125.0	30.54	-239.58	0.16	11.49	0.08	-278.27
24	25	418.19	1.78	-2.61e-03	-494.53	0.0	71.89	254.78	-0.77	-14.80	1.78	-273.30
		-281.19	-8.71	5.07e-05	0.0	1125.0	71.89	-239.75	-0.77	-14.80	-8.71	-281.19
24	26	417.53	2.25	-2.38e-03	-494.53	0.0	46.54	256.06	-0.81	-14.24	2.25	-281.13
		-281.13	-8.18	5.43e-05	0.0	1125.0	46.54	-238.48	-0.81	-14.24	-8.18	-274.68
24	27	420.92	-0.58	-2.44e-03	-494.53	0.0	52.14	253.90	0.23	11.89	-4.03	-265.36
		-283.68	-4.03	1.49e-05	0.0	1125.0	52.14	-240.64	0.23	11.89	-0.58	-283.68
24	28	420.47	0.20	-2.29e-03	-494.53	0.0	34.29	254.74	0.12	10.52	-3.51	-270.57
		-279.37	-3.51	8.77e-06	0.0	1125.0	34.29	-239.79	0.12	10.52	0.20	-279.37
24	29	418.09	1.75	-2.58e-03	-494.53	0.0	68.14	255.00	-0.73	-13.84	1.75	-274.61
		-280.09	-8.83	5.60e-05	0.0	1125.0	68.14	-239.53	-0.73	-13.84	-8.83	-280.09
24	30	417.64	2.27	-2.41e-03	-494.53	0.0	50.29	255.84	-0.84	-15.20	2.27	-279.82
		-279.82	-8.05	4.87e-05	0.0	1125.0	50.29	-238.69	-0.84	-15.20	-8.05	-275.78
24	31	421.35	-0.43	-2.46e-03	-494.53	0.0	55.30	253.98	0.19	11.65	-4.10	-265.80
		-282.37	-4.10	2.21e-05	0.0	1125.0	55.30	-240.55	0.19	11.65	-0.43	-282.37
24	32	420.69	0.10	-2.24e-03	-494.53	0.0	29.95	255.25	0.16	12.22	-3.63	-273.63
		-275.86	-3.63	2.36e-05	0.0	1125.0	29.95	-239.28	0.16	12.22	0.10	-275.86
24	33	417.86	1.87	-2.63e-03	-494.53	0.0	72.48	254.49	-0.77	-15.54	1.87	-271.55
		-283.60	-8.73	3.52e-05	0.0	1125.0	72.48	-240.05	-0.77	-15.54	-8.73	-283.60
24	34	417.20	2.35	-2.40e-03	-494.53	0.0	47.13	255.76	-0.80	-14.97	2.35	-279.38
		-279.38	-8.20	3.77e-05	0.0	1125.0	47.13	-238.77	-0.80	-14.97	-8.20	-277.09
24	35	421.25	-0.56	-2.42e-03	-494.53	0.0	51.55	254.20	0.23	12.62	-4.13	-267.11
		-281.27	-4.13	2.64e-05	0.0	1125.0	51.55	-240.34	0.23	12.62	-0.56	-281.27
24	36	420.80	0.23	-2.27e-03	-494.53	0.0	33.70	255.04	0.12	11.26	-3.61	-272.32
		-276.96	-3.61	1.90e-05	0.0	1125.0	33.70	-239.49	0.12	11.26	0.23	-276.96
24	37	417.76	1.85	-2.60e-03	-494.53	0.0	68.73	254.70	-0.73	-14.57	1.85	-272.86
		-282.50	-8.86	4.01e-05	0.0	1125.0	68.73	-239.83	-0.73	-14.57	-8.86	-282.50
24	38	417.31	2.37	-2.44e-03	-494.53	0.0	50.88	255.54	-0.84	-15.94	2.37	-278.07
		-278.19	-8.07	3.27e-05	0.0	1125.0	50.88	-238.99	-0.84	-15.94	-8.07	-278.19
24	39	420.80	-2.53	-2.79e-03	-494.53	0.0	91.06	252.58	-0.10	1.25	-2.53	-258.15
		-291.13	-3.96	2.12e-05	0.0	1125.0	91.06	-241.95	-0.10	1.25	-3.96	-291.13
24	40	418.61	-0.96	-2.06e-03	-494.53	0.0	6.56	256.83	-0.22	3.15	-0.96	-284.25

		-284.25	-2.19	2.76e-05	0.0	1125.0	6.56	-237.71	-0.22	3.15	-2.19	-269.41
24	41	419.95	-0.80	-2.83e-03	-494.53	0.0	95.87	252.91	-0.39	-6.47	-0.80	-260.93
		-290.05	-6.44	3.24e-05	0.0	1125.0	95.87	-241.62	-0.39	-6.47	-6.44	-290.05
24	42	417.76	0.77	-2.10e-03	-494.53	0.0	11.36	257.16	-0.51	-4.57	0.77	-287.03
		-287.03	-4.67	4.21e-05	0.0	1125.0	11.36	-237.38	-0.51	-4.57	-4.67	-268.33
24	43	420.90	-2.56	-2.79e-03	-494.53	0.0	90.89	252.67	-0.10	1.47	-2.56	-258.68
		-290.40	-3.96	2.48e-05	0.0	1125.0	90.89	-241.86	-0.10	1.47	-3.96	-290.40
24	44	418.70	-0.99	-2.06e-03	-494.53	0.0	6.39	256.91	-0.22	3.37	-0.99	-284.78
		-284.78	-2.18	3.30e-05	0.0	1125.0	6.39	-237.62	-0.22	3.37	-2.18	-268.69
24	45	419.85	-0.77	-2.84e-03	-494.53	0.0	96.04	252.82	-0.39	-6.69	-0.77	-260.40
		-290.77	-6.45	2.83e-05	0.0	1125.0	96.04	-241.71	-0.39	-6.69	-6.45	-290.77
24	46	417.66	0.80	-2.10e-03	-494.53	0.0	11.54	257.07	-0.51	-4.79	0.80	-286.50
		-286.50	-4.67	3.69e-05	0.0	1125.0	11.54	-237.47	-0.51	-4.79	-4.67	-269.06
24	47	420.45	-2.61	-2.68e-03	-494.53	0.0	78.56	253.30	0.02	4.48	-2.61	-262.53
		-287.45	-4.38	3.54e-05	0.0	1125.0	78.56	-241.23	0.02	4.48	-4.38	-287.45
24	48	418.95	-0.88	-2.16e-03	-494.53	0.0	19.07	256.11	-0.34	-0.08	-0.88	-279.88
		-279.88	-1.77	1.09e-05	0.0	1125.0	19.07	-238.42	-0.34	-0.08	-1.77	-273.09
24	49	419.60	-0.88	-2.72e-03	-494.53	0.0	83.36	253.63	-0.27	-3.24	-0.88	-265.30
		-286.37	-6.86	4.83e-05	0.0	1125.0	83.36	-240.90	-0.27	-3.24	-6.86	-286.37
24	50	418.10	0.85	-2.19e-03	-494.53	0.0	23.87	256.44	-0.63	-7.80	0.85	-282.65
		-282.65	-4.25	2.39e-05	0.0	1125.0	23.87	-238.09	-0.63	-7.80	-4.25	-272.01
24	51	420.55	-2.64	-2.68e-03	-494.53	0.0	78.38	253.39	0.02	4.70	-2.64	-263.05
		-286.72	-4.37	3.96e-05	0.0	1125.0	78.38	-241.14	0.02	4.70	-4.37	-286.72
24	52	419.05	-0.91	-2.16e-03	-494.53	0.0	18.89	256.20	-0.34	0.14	-0.91	-280.40
		-280.40	-1.77	1.50e-05	0.0	1125.0	18.89	-238.33	-0.34	0.14	-1.77	-272.37
24	53	419.50	-0.85	-2.73e-03	-494.53	0.0	83.54	253.54	-0.27	-3.46	-0.85	-264.78
		-287.09	-6.86	4.38e-05	0.0	1125.0	83.54	-240.99	-0.27	-3.46	-6.86	-287.09
24	54	418.00	0.88	-2.20e-03	-494.53	0.0	24.05	256.35	-0.63	-8.02	0.88	-282.13
		-282.13	-4.26	1.92e-05	0.0	1125.0	24.05	-238.18	-0.63	-8.02	-4.26	-272.74
24	55	382.77	-0.76	-2.22e-03	-451.27	0.0	46.10	232.10	-0.29	-1.56	-0.76	-248.24
		-255.42	-3.99	2.70e-05	0.0	1125.0	46.10	-219.17	-0.29	-1.56	-3.99	-255.42
24	56	419.28	-0.88	-2.43e-03	-494.53	0.0	51.21	254.87	-0.31	-1.66	-0.88	-272.59
		-279.73	-4.32	2.94e-05	0.0	1125.0	51.21	-239.66	-0.31	-1.66	-4.32	-279.73
25	1	8.80	0.32	-3.37e-04	-66.70	0.0	14.40	29.89	-0.13	-2.31	0.32	-22.80
		-31.69	-0.25	1.53e-05	0.0	432.3	14.40	-36.81	-0.13	-2.31	-0.25	-31.69
25	2	8.78	0.32	-3.25e-04	-66.70	0.0	14.40	29.75	-0.13	-2.32	0.32	-22.51
		-32.01	-0.25	1.53e-05	0.0	432.3	14.40	-36.95	-0.13	-2.32	-0.25	-32.01
25	3	12.32	0.41	-6.29e-04	-93.15	0.0	18.28	41.15	-0.17	-3.06	0.41	-31.09
		-44.95	-0.32	2.11e-05	0.0	432.3	18.28	-51.99	-0.17	-3.06	-0.32	-44.95
25	4	12.30	0.42	-6.16e-04	-93.15	0.0	18.28	41.01	-0.17	-3.07	0.42	-30.80
		-45.27	-0.32	2.11e-05	0.0	432.3	18.28	-52.14	-0.17	-3.07	-0.32	-45.27
25	5	4.77	0.21	-1.16e-04	-36.05	0.0	10.58	17.89	-0.09	-1.43	0.21	-15.73
		-15.73	-0.19	9.48e-06	0.0	432.3	10.58	-18.16	-0.09	-1.43	-0.19	-13.69
25	6	4.76	0.21	-1.07e-04	-36.05	0.0	10.58	17.75	-0.09	-1.43	0.21	-15.44
		-15.44	-0.19	9.50e-06	0.0	432.3	10.58	-18.30	-0.09	-1.43	-0.19	-14.01
25	7	8.29	0.30	-4.06e-04	-62.50	0.0	14.46	29.15	-0.13	-2.18	0.30	-24.02
		-26.94	-0.25	1.51e-05	0.0	432.3	14.46	-33.35	-0.13	-2.18	-0.25	-26.94
25	8	8.28	0.30	-3.94e-04	-62.50	0.0	14.46	29.01	-0.13	-2.18	0.30	-23.73
		-27.26	-0.25	1.51e-05	0.0	432.3	14.46	-33.49	-0.13	-2.18	-0.25	-27.26
25	9	8.77	0.32	-3.12e-04	-66.70	0.0	14.40	29.61	-0.13	-2.33	0.32	-22.21
		-32.33	-0.25	1.53e-05	0.0	432.3	14.40	-37.09	-0.13	-2.33	-0.25	-32.33
25	10	11.26	0.39	-5.41e-04	-85.21	0.0	17.12	37.78	-0.16	-2.84	0.39	-28.61
		-40.97	-0.30	1.93e-05	0.0	432.3	17.12	-47.44	-0.16	-2.84	-0.30	-40.97
25	11	11.24	0.39	-5.16e-04	-85.21	0.0	17.12	37.49	-0.16	-2.85	0.39	-28.02
		-41.61	-0.30	1.94e-05	0.0	432.3	17.12	-47.72	-0.16	-2.85	-0.30	-41.61
25	12	4.75	0.21	-9.87e-05	-36.05	0.0	10.57	17.60	-0.09	-1.44	0.21	-15.14
		-15.14	-0.19	9.53e-06	0.0	432.3	10.57	-18.44	-0.09	-1.44	-0.19	-14.32
25	13	7.23	0.27	-3.19e-04	-54.56	0.0	13.29	25.77	-0.12	-1.95	0.27	-21.54
		-22.96	-0.23	1.34e-05	0.0	432.3	13.29	-28.79	-0.12	-1.95	-0.23	-22.96
25	14	7.21	0.28	-2.94e-04	-54.56	0.0	13.29	25.49	-0.12	-1.96	0.28	-20.95
		-23.60	-0.23	1.34e-05	0.0	432.3	13.29	-29.07	-0.12	-1.96	-0.23	-23.60
25	15	8.86	0.34	-2.57e-04	-66.70	0.0	17.04	32.44	-0.15	-2.29	0.34	-28.23
		-28.23	-0.31	1.50e-05	0.0	432.3	17.04	-34.26	-0.15	-2.29	-0.31	-26.13
25	16	8.85	0.34	-2.45e-04	-66.70	0.0	17.04	32.29	-0.15	-2.30	0.34	-27.94
		-27.94	-0.31	1.50e-05	0.0	432.3	17.04	-34.41	-0.15	-2.30	-0.31	-26.45
25	17	11.33	0.40	-4.61e-04	-85.21	0.0	19.75	40.32	-0.18	-2.82	0.40	-34.04
		-35.40	-0.35	1.88e-05	0.0	432.3	19.75	-44.89	-0.18	-2.82	-0.35	-35.40
25	18	11.32	0.41	-4.49e-04	-85.21	0.0	19.75	40.18	-0.18	-2.83	0.41	-33.74
		-35.72	-0.35	1.89e-05	0.0	432.3	19.75	-45.04	-0.18	-2.83	-0.35	-35.72
25	19	5.43	0.23	-7.91e-05	-36.05	0.0	13.21	20.43	-0.11	-1.41	0.23	-21.17
		-21.17	-0.24	9.53e-06	0.0	432.3	13.21	-15.62	-0.11	-1.41	-0.24	-8.12
25	20	5.38	0.23	-7.03e-05	-36.05	0.0	13.21	20.29	-0.11	-1.41	0.23	-20.87
		-20.87	-0.24	9.55e-06	0.0	432.3	13.21	-15.76	-0.11	-1.41	-0.24	-8.44
25	21	7.60	0.29	-2.39e-04	-54.56	0.0	15.93	28.32	-0.13	-1.93	0.29	-26.97
		-26.97	-0.29	1.32e-05	0.0	432.3	15.93	-26.25	-0.13	-1.93	-0.29	-17.40
25	22	7.55	0.29	-2.26e-04	-54.56	0.0	15.93	28.18	-0.13	-1.94	0.29	-26.67
		-26.67	-0.29	1.32e-05	0.0	432.3	15.93	-26.39	-0.13	-1.94	-0.29	-17.72
25	23	13.03	-8.00e-03	1.09e-04	-54.56	0.0	13.15	12.88	8.41e-03	-7.14	-0.05	5.69
		-51.49	-0.05	5.92e-06	0.0	432.3	13.15	-41.68	8.41e-03	-7.14	-8.00e-03	-51.49
25	24	19.60	0.09	-1.69e-04	-54.56	0.0	8.08	7.51	0.05	-6.96	-0.13	17.17
		-63.20	-0.13	7.97e-06	0.0	432.3	8.08	-47.05	0.05	-6.96	0.09	-63.20
25	25	11.67	0.60	-7.05e-04	-54.56	0.0	9.16	35.51	-0.22	3.14	0.60	-42.04
		-42.04	-0.37	1.90e-05	0.0	432.3	9.16	-19.05	-0.22	3.14	-0.37	-1.37
25	26	8.45	0.52	-8.16e-04	-54.56	0.0	4.10	30.15	-0.18	3.33	0.52	-30.57
		-30.57	-0.28	2.11e-05	0.0	432.3	4.10	-24.42	-0.18	3.33	-0.28	-13.08
25	27	13.66	0.16	1.13e-04	-54.56	0.0	12.62	12.26	0.07	-6.84	-7.18e-03	6.99
		-52.87	-7.18e-03	8.40e-06	0.0	432.3	12.62	-42.31	0.07	-6.84	0.16	-52.87
25	28	18.79	-0.08	-1.66e-04	-54.56	0.0	8.60	8.14	-0.02	-7.26	-0.17	15.87
		-61.81	-0.17	1.18e-05	0.0	432.3	8.60	-46.43	-0.02	-7.26	-0.08	-61.81
25	29	11.12	0.65	-7.06e-04	-54.56	0.0	8.64	34.89	-0.16	3.45	0.65	-40.75
		-40.75	-0.21	2.15e-05	0.0	432.3	8.64	-19.67	-0.16	3.45	-0.21	-2.76
25	30	8.68	0.48	-8.14e-04	-54.56	0.0	4.62	30.77	-0.25	3.03	0.48	-31.86
		-31.86	-0.44	1.93e-05	0.0	432.3	4.62	-23.79	-0.25	3.03	-0.44	-11.69
25	31	15.13	0.09	1.33e-04	-54.56	0.0	9.60	10.95	0.05	-6.97	-0.13	9.86
		-55.63	-0.13	1.41e-05	0.0	432.3	9.60	-43.61	0.05	-6.97	0.09	-55.63
25	32	22.74	0.19	-1.77e-04	-54.56	0.0	4.54	5.59	0.09	-6.78	-0.21	21.34

		-67.34	-0.21	1.62e-05	0.0	432.3	4.54	-48.97	0.09	-6.78	0.19	-67.34
25	33	13.21	0.68	-7.19e-04	-54.56	0.0	12.71	37.43	-0.27	2.97	0.68	-46.22
		-46.22	-0.47	1.12e-05	0.0	432.3	12.71	-17.13	-0.27	2.97	-0.47	2.77
25	34	9.32	0.60	-8.30e-04	-54.56	0.0	7.64	32.07	-0.23	3.15	0.60	-34.74
		-34.74	-0.38	1.29e-05	0.0	432.3	7.64	-22.49	-0.23	3.15	-0.38	-8.94
25	35	15.86	0.26	1.37e-04	-54.56	0.0	9.08	10.33	0.12	-6.67	-0.09	11.16
		-57.02	-0.09	1.66e-05	0.0	432.3	9.08	-44.23	0.12	-6.67	0.26	-57.02
25	36	21.78	0.03	-1.74e-04	-54.56	0.0	5.06	6.21	0.03	-7.09	-0.25	20.04
		-65.95	-0.25	1.54e-05	0.0	432.3	5.06	-48.35	0.03	-7.09	0.03	-65.95
25	37	12.66	0.72	-7.20e-04	-54.56	0.0	12.19	36.81	-0.20	3.27	0.72	-44.92
		-44.92	-0.31	1.33e-05	0.0	432.3	12.19	-17.75	-0.20	3.27	-0.31	1.38
25	38	9.71	0.56	-8.28e-04	-54.56	0.0	8.16	32.69	-0.29	2.85	0.56	-36.04
		-36.04	-0.54	1.32e-05	0.0	432.3	8.16	-21.87	-0.29	2.85	-0.54	-7.55
25	39	7.14	0.28	-1.30e-04	-54.56	0.0	17.66	27.06	-0.12	-3.76	0.28	-24.41
		-24.41	-0.25	8.69e-06	0.0	432.3	17.66	-27.51	-0.12	-3.76	-0.25	-20.28
25	40	17.61	0.07	-4.70e-04	-54.56	0.0	0.78	9.18	0.02	-3.14	1.04e-03	13.85
		-59.32	1.04e-03	1.49e-05	0.0	432.3	0.78	-45.38	0.02	-3.14	0.07	-59.32
25	41	10.14	0.47	-3.37e-04	-54.56	0.0	16.46	33.84	-0.19	-0.67	0.47	-38.73
		-38.73	-0.36	1.23e-05	0.0	432.3	16.46	-20.72	-0.19	-0.67	-0.36	-5.25
25	42	10.76	0.20	-6.89e-04	-54.56	0.0	-0.42	15.97	-0.05	-0.05	0.20	-0.47
		-44.29	-0.04	1.89e-05	0.0	432.3	-0.42	-38.59	-0.05	-0.05	-0.04	-44.29
25	43	7.14	0.25	-1.26e-04	-54.56	0.0	16.59	26.48	-0.11	-3.71	0.25	-23.15
		-23.15	-0.22	1.08e-05	0.0	432.3	16.59	-28.08	-0.11	-3.71	-0.22	-21.53
25	44	18.40	0.10	-4.65e-04	-54.56	0.0	-0.29	8.60	0.03	-3.09	-0.02	15.10
		-60.56	-0.02	1.74e-05	0.0	432.3	-0.29	-45.96	0.03	-3.09	0.10	-60.56
25	45	10.50	0.50	-3.45e-04	-54.56	0.0	17.53	34.42	-0.20	-0.73	0.50	-39.98
		-39.98	-0.39	1.02e-05	0.0	432.3	17.53	-20.14	-0.20	-0.73	-0.39	-4.01
25	46	10.29	0.22	-6.93e-04	-54.56	0.0	0.65	16.55	-0.07	-0.11	0.22	-1.72
		-43.04	-0.07	1.64e-05	0.0	432.3	0.65	-38.02	-0.07	-0.11	-0.07	-43.04
25	47	6.98	0.41	-1.23e-04	-54.56	0.0	15.92	24.98	0.10	-2.75	0.41	-20.09
		-24.91	0.30	-1.84e-05	0.0	432.3	15.92	-29.58	0.10	-2.75	0.30	-24.91
25	48	15.11	-0.13	-4.65e-04	-54.56	0.0	2.52	11.25	-0.20	-4.15	-0.13	9.53
		-54.69	-0.47	2.59e-05	0.0	432.3	2.52	-43.31	-0.20	-4.15	-0.47	-54.69
25	49	8.86	0.61	-3.24e-04	-54.56	0.0	14.73	31.77	0.03	0.34	0.61	-34.41
		-34.41	0.19	-2.07e-05	0.0	432.3	14.73	-22.79	0.03	0.34	0.19	-9.88
25	50	9.48	0.06	-6.84e-04	-54.56	0.0	1.32	18.04	-0.27	-1.06	0.06	-4.79
		-39.66	-0.58	2.62e-05	0.0	432.3	1.32	-36.52	-0.27	-1.06	-0.58	-39.66
25	51	6.99	0.39	-1.20e-04	-54.56	0.0	14.86	24.41	0.11	-2.70	0.39	-18.84
		-26.16	0.33	1.88e-05	0.0	432.3	14.86	-30.16	0.11	-2.70	0.33	-26.16
25	52	15.75	-0.16	-4.61e-04	-54.56	0.0	1.45	10.67	-0.19	-4.10	-0.16	10.78
		-55.93	-0.44	2.70e-05	0.0	432.3	1.45	-43.89	-0.19	-4.10	-0.44	-55.93
25	53	9.17	0.63	-3.31e-04	-54.56	0.0	15.79	32.35	0.02	0.28	0.63	-35.66
		-35.66	0.16	-2.15e-05	0.0	432.3	15.79	-22.21	0.02	0.28	0.16	-8.64
25	54	9.16	0.08	-6.89e-04	-54.56	0.0	2.38	18.62	-0.29	-1.12	0.08	-6.04
		-38.41	-0.61	2.50e-05	0.0	432.3	2.38	-35.95	-0.29	-1.12	-0.61	-38.41
25	55	7.05	0.22	-3.36e-04	-49.27	0.0	7.84	19.26	-0.08	-1.76	0.22	-10.78
		-29.63	-0.13	1.23e-05	0.0	432.3	7.84	-30.01	-0.08	-1.76	-0.13	-29.63
25	56	7.75	0.24	-3.95e-04	-54.56	0.0	8.62	21.51	-0.09	-1.91	0.24	-12.44
		-32.28	-0.14	1.35e-05	0.0	432.3	8.62	-33.05	-0.09	-1.91	-0.14	-32.28
26	1	31.98	0.52	-1.24e-03	-27.73	0.0	0.65	35.39	1.91	2.55	-1.50	-47.86
		-47.86	-1.50	-1.65e-05	-3.34	371.0	0.65	7.65	-1.43	2.55	-0.61	31.98
26	2	32.32	0.52	-1.25e-03	-27.73	0.0	0.68	35.57	1.91	2.55	-1.50	-48.21
		-48.21	-1.50	-1.65e-05	-3.34	371.0	0.68	7.84	-1.43	2.55	-0.61	32.32
26	3	47.88	0.54	-1.72e-03	-27.73	0.0	0.67	43.91	2.00	3.94	-1.67	-63.58
		-63.58	-1.67	-1.85e-05	-3.34	371.0	0.67	16.18	-1.34	3.94	-0.45	47.88
26	4	48.22	0.54	-1.73e-03	-27.73	0.0	0.70	44.10	2.00	3.94	-1.68	-63.93
		-63.93	-1.68	-1.85e-05	-3.34	371.0	0.70	16.36	-1.34	3.94	-0.45	48.22
26	5	17.73	0.51	-7.44e-04	-21.33	0.0	0.32	23.54	1.81	1.13	-1.31	-30.02
		-30.02	-1.31	-1.58e-05	-3.34	371.0	0.32	2.21	-1.53	1.13	-0.78	17.73
26	6	18.07	0.51	-7.56e-04	-21.33	0.0	0.35	23.72	1.81	1.13	-1.31	-30.37
		-30.37	-1.31	-1.58e-05	-3.34	371.0	0.35	2.39	-1.53	1.13	-0.78	18.07
26	7	33.63	0.53	-1.23e-03	-21.33	0.0	0.34	32.06	1.90	2.51	-1.48	-45.74
		-45.74	-1.48	-1.73e-05	-3.34	371.0	0.34	10.73	-1.44	2.51	-0.62	33.63
26	8	33.97	0.53	-1.24e-03	-21.33	0.0	0.36	32.25	1.90	2.52	-1.49	-46.09
		-46.09	-1.49	-1.73e-05	-3.34	371.0	0.36	10.91	-1.43	2.52	-0.61	33.97
26	9	32.66	0.53	-1.26e-03	-27.73	0.0	0.71	35.76	1.91	2.55	-1.50	-48.56
		-48.56	-1.50	-1.65e-05	-3.34	371.0	0.71	8.03	-1.43	2.55	-0.61	32.66
26	10	43.11	0.54	-1.57e-03	-27.73	0.0	0.67	41.35	1.97	3.52	-1.62	-58.86
		-58.86	-1.62	-1.79e-05	-3.34	371.0	0.67	13.62	-1.37	3.52	-0.50	43.11
26	11	43.79	0.54	-1.60e-03	-27.73	0.0	0.72	41.72	1.98	3.52	-1.63	-59.56
		-59.56	-1.63	-1.79e-05	-3.34	371.0	0.72	13.99	-1.36	3.52	-0.49	43.79
26	12	18.42	0.51	-7.68e-04	-21.33	0.0	0.37	23.91	1.81	1.13	-1.31	-30.72
		-30.72	-1.31	-1.58e-05	-3.34	371.0	0.37	2.58	-1.53	1.13	-0.78	18.42
26	13	28.86	0.52	-1.08e-03	-21.33	0.0	0.33	29.50	1.88	2.10	-1.43	-41.02
		-41.02	-1.43	-1.68e-05	-3.34	371.0	0.33	8.17	-1.46	2.10	-0.67	28.86
26	14	29.54	0.52	-1.11e-03	-21.33	0.0	0.38	29.88	1.88	2.10	-1.44	-41.72
		-41.72	-1.44	-1.68e-05	-3.34	371.0	0.38	8.54	-1.46	2.10	-0.66	29.54
26	15	32.70	0.86	-1.25e-03	-27.73	0.0	0.39	35.78	3.01	2.54	-2.16	-48.61
		-48.61	-2.16	-2.68e-05	-5.57	371.0	0.39	8.05	-2.55	2.54	-1.31	32.70
26	16	33.04	0.86	-1.26e-03	-27.73	0.0	0.42	35.97	3.01	2.54	-2.16	-48.96
		-48.96	-2.16	-2.67e-05	-5.57	371.0	0.42	8.24	-2.55	2.54	-1.31	33.04
26	17	43.83	0.87	-1.58e-03	-27.73	0.0	0.40	41.75	3.08	3.51	-2.28	-59.61
		-59.61	-2.28	-2.78e-05	-5.57	371.0	0.40	14.01	-2.49	3.51	-1.20	43.83
26	18	44.17	0.87	-1.59e-03	-27.73	0.0	0.43	41.93	3.08	3.51	-2.29	-59.96
		-59.96	-2.29	-2.78e-05	-5.57	371.0	0.43	14.20	-2.49	3.51	-1.19	44.17
26	19	18.45	0.86	-7.53e-04	-21.33	0.0	0.06	23.93	2.91	1.12	-1.97	-30.77
		-30.77	-1.97	-2.60e-05	-5.57	371.0	0.06	2.60	-2.65	1.12	-1.48	18.45
26	20	18.79	0.86	-7.65e-04	-21.33	0.0	0.08	24.12	2.92	1.12	-1.97	-31.12
		-31.12	-1.97	-2.60e-05	-5.57	371.0	0.08	2.79	-2.65	1.12	-1.48	18.79
26	21	29.58	0.86	-1.09e-03	-21.33	0.0	0.07	29.90	2.98	2.09	-2.09	-41.77
		-41.77	-2.09	-2.71e-05	-5.57	371.0	0.07	8.57	-2.59	2.09	-1.36	29.58
26	22	29.92	0.86	-1.10e-03	-21.33	0.0	0.09	30.08	2.98	2.09	-2.10	-42.12
		-42.12	-2.10	-2.71e-05	-5.57	371.0	0.09	8.75	-2.58	2.09	-1.36	29.92
26	23	85.27	0.97	-1.46e-03	-21.33	0.0	9.45	-33.40	0.63	1.82	-1.36	85.27
		-78.22	-1.36	1.38e-05	0.0	371.0	9.45	-54.73	0.63	1.82	0.97	-78.22
26	24	89.96	1.03	-1.44e-03	-21.33	0.0	9.92	-35.79	0.66	1.85	-1.42	89.96

		-82.39	-1.42	1.46e-05	0.0	371.0	9.92	-57.12	0.66	1.85	1.03	-82.39
26	25	134.40	0.60	-7.51e-04	-21.33	0.0	-8.32	91.71	-0.24	2.44	0.60	-166.28
		-166.28	-0.31	-9.27e-06	0.0	371.0	-8.32	70.38	-0.24	2.44	-0.31	134.40
26	26	130.23	0.53	-7.30e-04	-21.33	0.0	-7.85	89.32	-0.21	2.47	0.53	-161.59
		-161.59	-0.25	-8.37e-06	0.0	371.0	-7.85	67.99	-0.21	2.47	-0.25	130.23
26	27	91.07	1.04	-1.46e-03	-21.33	0.0	9.03	-36.36	0.67	1.81	-1.45	91.07
		-83.39	-1.45	1.59e-05	0.0	371.0	9.03	-57.69	0.67	1.81	1.04	-83.39
26	28	84.17	0.96	-1.44e-03	-21.33	0.0	10.34	-32.84	0.62	1.85	-1.33	84.17
		-77.23	-1.33	1.25e-05	0.0	371.0	10.34	-54.17	0.62	1.85	0.96	-77.23
26	29	129.24	0.51	-7.44e-04	-21.33	0.0	-8.73	88.76	-0.20	2.43	0.51	-160.48
		-160.48	-0.24	-6.91e-06	0.0	371.0	-8.73	67.43	-0.20	2.43	-0.24	129.24
26	30	135.40	0.63	-7.36e-04	-21.33	0.0	-7.43	92.28	-0.25	2.47	0.63	-167.38
		-167.38	-0.32	-1.08e-05	0.0	371.0	-7.43	70.95	-0.25	2.47	-0.32	135.40
26	31	88.80	1.03	-1.46e-03	-21.33	0.0	8.84	-35.20	0.66	1.83	-1.44	88.80
		-81.37	-1.44	1.63e-05	0.0	371.0	8.84	-56.53	0.66	1.83	1.03	-81.37
26	32	93.49	1.08	-1.44e-03	-21.33	0.0	9.31	-37.59	0.70	1.86	-1.50	93.49
		-85.54	-1.50	1.72e-05	0.0	371.0	9.31	-58.92	0.70	1.86	1.08	-85.54
26	33	137.56	0.68	-7.55e-04	-21.33	0.0	-7.71	93.51	-0.28	2.43	0.68	-169.80
		-169.80	-0.37	-1.25e-05	0.0	371.0	-7.71	72.18	-0.28	2.43	-0.37	137.56
26	34	133.38	0.62	-7.34e-04	-21.33	0.0	-7.24	91.12	-0.25	2.46	0.62	-165.11
		-165.11	-0.31	-1.16e-05	0.0	371.0	-7.24	69.79	-0.25	2.46	-0.31	133.38
26	35	94.59	1.10	-1.46e-03	-21.33	0.0	8.42	-38.16	0.71	1.82	-1.53	94.59
		-86.54	-1.53	1.87e-05	0.0	371.0	8.42	-59.49	0.71	1.82	1.10	-86.54
26	36	87.70	1.02	-1.44e-03	-21.33	0.0	9.73	-34.64	0.65	1.86	-1.41	87.70
		-80.38	-1.41	1.51e-05	0.0	371.0	9.73	-55.97	0.65	1.86	1.02	-80.38
26	37	132.39	0.59	-7.49e-04	-21.33	0.0	-8.13	90.56	-0.24	2.42	0.59	-164.01
		-164.01	-0.30	-9.92e-06	0.0	371.0	-8.13	69.23	-0.24	2.42	-0.30	132.39
26	38	138.55	0.71	-7.41e-04	-21.33	0.0	-6.82	94.08	-0.29	2.46	0.71	-170.91
		-170.91	-0.38	-1.41e-05	0.0	371.0	-6.82	72.75	-0.29	2.46	-0.38	138.55
26	39	6.85	0.45	-1.17e-03	-21.33	0.0	2.68	13.17	0.28	1.99	-0.59	-8.24
		-8.24	-0.59	-6.38e-06	0.0	371.0	2.68	-8.16	0.28	1.99	0.45	1.07
26	40	9.75	0.64	-1.11e-03	-21.33	0.0	4.25	5.21	0.39	2.10	-0.82	7.39
		-12.84	-0.82	7.73e-06	0.0	371.0	4.25	-16.12	0.39	2.10	0.64	-12.84
26	41	64.85	0.07	-9.34e-04	-21.33	0.0	-2.65	50.71	0.02	2.18	-5.62e-03	-83.71
		-83.71	-5.62e-03	-4.21e-06	0.0	371.0	-2.65	29.38	0.02	2.18	0.07	64.85
26	42	50.95	0.26	-8.69e-04	-21.33	0.0	-1.08	42.75	0.13	2.29	-0.23	-68.07
		-68.07	-0.23	-2.48e-06	0.0	371.0	-1.08	21.41	0.13	2.29	0.26	50.95
26	43	6.66	0.47	-1.17e-03	-21.33	0.0	2.50	12.63	0.29	2.00	-0.62	-7.18
		-7.18	-0.62	5.61e-06	0.0	371.0	2.50	-8.70	0.29	2.00	0.47	0.12
26	44	10.31	0.66	-1.11e-03	-21.33	0.0	4.07	4.67	0.40	2.11	-0.84	8.45
		-13.79	-0.84	8.49e-06	0.0	371.0	4.07	-16.66	0.40	2.11	0.66	-13.79
26	45	65.80	0.05	-9.35e-04	-21.33	0.0	-2.47	51.25	9.84e-03	2.18	0.02	-84.76
		-84.76	0.02	-5.74e-06	0.0	371.0	-2.47	29.92	9.84e-03	2.18	0.05	65.80
26	46	51.89	0.24	-8.70e-04	-21.33	0.0	-0.90	43.29	0.12	2.29	-0.21	-69.13
		-69.13	-0.21	-3.96e-06	0.0	371.0	-0.90	21.95	0.12	2.29	0.24	51.89
26	47	12.00	0.68	-1.17e-03	-21.33	0.0	1.30	3.33	0.43	1.98	-0.90	11.07
		-16.15	-0.90	1.23e-05	0.0	371.0	1.30	-18.00	0.43	1.98	0.68	-16.15
26	48	7.79	0.42	-1.11e-03	-21.33	0.0	5.63	15.06	0.25	2.12	-0.51	-11.92
		-11.92	-0.51	-1.66e-05	0.0	371.0	5.63	-6.27	0.25	2.12	0.42	4.38
26	49	47.63	0.30	-9.22e-04	-21.33	0.0	-4.03	40.86	0.17	2.17	-0.32	-64.39
		-64.39	-0.32	1.06e-05	0.0	371.0	-4.03	19.53	0.17	2.17	0.30	47.63
26	50	68.17	0.08	-8.84e-04	-21.33	0.0	0.30	52.59	-0.01	2.30	0.08	-87.39
		-87.39	0.03	-1.44e-05	0.0	371.0	0.30	31.26	-0.01	2.30	0.03	68.17
26	51	12.80	0.70	-1.17e-03	-21.33	0.0	1.11	2.79	0.44	1.99	-0.93	12.13
		-17.10	-0.93	1.31e-05	0.0	371.0	1.11	-18.54	0.44	1.99	0.70	-17.10
26	52	7.47	0.43	-1.11e-03	-21.33	0.0	5.45	14.52	0.26	2.12	-0.53	-10.86
		-10.86	-0.53	-1.48e-05	0.0	371.0	5.45	-6.81	0.26	2.12	0.43	3.43
26	53	48.58	0.28	-9.23e-04	-21.33	0.0	-3.85	41.40	0.15	2.17	-0.29	-65.45
		-65.45	-0.29	8.63e-06	0.0	371.0	-3.85	20.07	0.15	2.17	0.28	48.58
26	54	69.11	0.10	-8.85e-04	-21.33	0.0	0.49	53.13	-0.02	2.30	0.10	-88.44
		-88.44	0.02	-1.63e-05	0.0	371.0	0.49	31.80	-0.02	2.30	0.02	69.11
26	55	22.83	0.32	-9.12e-04	-21.33	0.0	0.80	26.26	0.19	1.87	-0.38	-35.01
		-35.01	-0.38	-3.59e-06	0.0	371.0	0.80	4.92	0.19	1.87	0.32	22.83
26	56	26.01	0.36	-1.01e-03	-21.33	0.0	0.80	27.96	0.21	2.14	-0.41	-38.16
		-38.16	-0.41	-4.21e-06	0.0	371.0	0.80	6.63	0.21	2.14	0.36	26.01
27	1	8.44	0.49	-2.48e-04	-27.73	0.0	4.38	18.49	1.80	-8.95e-03	-1.30	-14.41
		-14.41	-1.30	-1.37e-05	-3.34	371.0	4.38	-9.24	-1.54	-8.95e-03	-0.82	2.75
27	2	8.50	0.49	-2.52e-04	-27.73	0.0	4.43	18.54	1.80	-9.29e-03	-1.31	-14.46
		-14.46	-1.31	-1.37e-05	-3.34	371.0	4.43	-9.20	-1.54	-9.29e-03	-0.82	2.86
27	3	10.65	0.50	-3.38e-04	-27.73	0.0	6.05	20.08	1.85	-0.01	-1.41	-16.27
		-16.27	-1.41	-1.37e-05	-3.34	371.0	6.05	-7.66	-1.49	-0.01	-0.73	6.77
27	4	10.73	0.50	-3.41e-04	-27.73	0.0	6.11	20.12	1.85	-0.01	-1.41	-16.33
		-16.33	-1.41	-1.37e-05	-3.34	371.0	6.11	-7.61	-1.49	-0.01	-0.73	6.88
27	5	5.68	0.50	-1.52e-04	-21.33	0.0	2.46	13.63	1.75	-0.01	-1.19	-10.46
		-10.46	-1.19	-1.40e-05	-3.34	371.0	2.46	-7.70	-1.59	-0.01	-0.90	0.53
27	6	5.73	0.50	-1.55e-04	-21.33	0.0	2.51	13.67	1.75	-0.01	-1.20	-10.51
		-10.51	-1.20	-1.40e-05	-3.34	371.0	2.51	-7.66	-1.59	-0.01	-0.90	0.64
27	7	7.78	0.49	-2.41e-04	-21.33	0.0	4.14	15.21	1.80	-0.02	-1.30	-12.32
		-12.32	-1.30	-1.39e-05	-3.34	371.0	4.14	-6.12	-1.54	-0.02	-0.82	4.55
27	8	7.84	0.49	-2.44e-04	-21.33	0.0	4.19	15.26	1.80	-0.02	-1.30	-12.38
		-12.38	-1.30	-1.39e-05	-3.34	371.0	4.19	-6.07	-1.54	-0.02	-0.82	4.66
27	9	8.56	0.49	-2.55e-04	-27.73	0.0	4.48	18.58	1.80	-9.63e-03	-1.31	-14.52
		-14.52	-1.31	-1.37e-05	-3.34	371.0	4.48	-9.15	-1.54	-9.63e-03	-0.81	2.98
27	10	9.97	0.50	-3.11e-04	-27.73	0.0	5.55	19.60	1.84	-0.01	-1.38	-15.72
		-15.72	-1.38	-1.37e-05	-3.34	371.0	5.55	-8.13	-1.50	-0.01	-0.76	5.56
27	11	10.09	0.50	-3.17e-04	-27.73	0.0	5.66	19.69	1.84	-0.01	-1.38	-15.82
		-15.82	-1.38	-1.37e-05	-3.34	371.0	5.66	-8.04	-1.50	-0.01	-0.76	5.79
27	12	5.78	0.50	-1.58e-04	-21.33	0.0	2.57	13.72	1.75	-0.01	-1.20	-10.57
		-10.57	-1.20	-1.39e-05	-3.34	371.0	2.57	-7.62	-1.59	-0.01	-0.90	0.75
27	13	7.12	0.49	-2.14e-04	-21.33	0.0	3.64	14.74	1.78	-0.01	-1.27	-11.77
		-11.77	-1.27	-1.39e-05	-3.34	371.0	3.64	-6.59	-1.56	-0.01	-0.85	3.34
27	14	7.24	0.49	-2.21e-04	-21.33	0.0	3.74	14.83	1.78	-0.01	-1.27	-11.87
		-11.87	-1.27	-1.39e-05	-3.34	371.0	3.74	-6.51	-1.55	-0.01	-0.84	3.56
27	15	8.65	0.83	-2.51e-04	-27.73	0.0	4.07	18.75	2.91	-0.01	-1.99	-14.87
		-14.87	-1.99	-2.34e-05	-5.57	371.0	4.07	-8.98	-2.65	-0.01	-1.51	3.26
27	16	8.71	0.83	-2.54e-04	-27.73	0.0	4.12	18.79	2.91	-0.01	-1.99	-14.92

		-14.92	-1.99	-2.33e-05	-5.57	371.0	4.12	-8.94	-2.65	-0.01	-1.51	3.37
27	17	10.17	0.82	-3.14e-04	-27.73	0.0	5.24	19.86	2.95	-0.02	-2.06	-16.17
		-16.17	-2.06	-2.33e-05	-5.57	371.0	5.24	-7.87	-2.62	-0.02	-1.45	6.07
27	18	10.23	0.82	-3.17e-04	-27.73	0.0	5.30	19.90	2.95	-0.02	-2.06	-16.22
		-16.22	-2.06	-2.33e-05	-5.57	371.0	5.30	-7.83	-2.62	-0.02	-1.45	6.18
27	19	5.83	0.84	-1.55e-04	-21.33	0.0	2.15	13.89	2.86	-0.02	-1.88	-10.92
		-10.92	-1.88	-2.38e-05	-5.57	371.0	2.15	-7.44	-2.71	-0.02	-1.60	1.03
27	20	5.88	0.84	-1.58e-04	-21.33	0.0	2.21	13.93	2.86	-0.02	-1.88	-10.97
		-10.97	-1.88	-2.38e-05	-5.57	371.0	2.21	-7.40	-2.71	-0.02	-1.60	1.14
27	21	7.33	0.84	-2.17e-04	-21.33	0.0	3.33	15.00	2.89	-0.02	-1.95	-12.22
		-12.22	-1.95	-2.36e-05	-5.57	371.0	3.33	-6.34	-2.67	-0.02	-1.54	3.84
27	22	7.39	0.84	-2.20e-04	-21.33	0.0	3.38	15.04	2.89	-0.02	-1.95	-12.27
		-12.27	-1.95	-2.36e-05	-5.57	371.0	3.38	-6.29	-2.67	-0.02	-1.54	3.96
27	23	88.63	0.46	-3.37e-04	-21.33	0.0	7.01	-39.47	0.26	0.19	-0.52	88.63
		-97.39	-0.52	-3.99e-06	0.0	371.0	7.01	-60.80	0.26	0.19	0.46	-97.39
27	24	92.31	0.52	-3.44e-04	-21.33	0.0	7.62	-41.48	0.29	0.21	-0.57	92.31
		-101.16	-0.57	4.61e-06	0.0	371.0	7.62	-62.81	0.29	0.21	0.52	-101.16
27	25	105.37	0.12	-4.06e-04	-21.33	0.0	0.28	69.79	-0.07	-0.22	0.12	-113.97
		-113.97	-0.15	1.47e-06	0.0	371.0	0.28	48.46	-0.07	-0.22	-0.15	105.37
27	26	101.60	0.06	-3.92e-04	-21.33	0.0	0.90	67.78	-0.04	-0.19	0.06	-110.29
		-110.29	-0.09	1.95e-06	0.0	371.0	0.90	46.45	-0.04	-0.19	-0.09	101.60
27	27	93.96	0.53	-3.47e-04	-21.33	0.0	6.73	-42.35	0.30	0.23	-0.59	93.96
		-102.72	-0.59	4.97e-06	0.0	371.0	6.73	-63.68	0.30	0.23	0.53	-102.72
27	28	86.98	0.45	-3.34e-04	-21.33	0.0	7.90	-38.61	0.26	0.17	-0.51	86.98
		-95.83	-0.51	-4.70e-06	0.0	371.0	7.90	-59.94	0.26	0.17	0.45	-95.83
27	29	100.04	0.05	-3.84e-04	-21.33	0.0	8.46e-03	66.91	-0.03	-0.18	0.05	-108.64
		-108.64	-0.08	2.63e-06	0.0	371.0	8.46e-03	45.58	-0.03	-0.18	-0.08	100.04
27	30	106.93	0.13	-4.14e-04	-21.33	0.0	1.17	70.65	-0.08	-0.23	0.13	-115.62
		-115.62	-0.16	0.0	0.0	371.0	1.17	49.32	-0.08	-0.23	-0.16	106.93
27	31	92.26	0.51	-3.41e-04	-21.33	0.0	6.55	-41.42	0.30	0.22	-0.58	92.26
		-100.97	-0.58	5.53e-06	0.0	371.0	6.55	-62.75	0.30	0.22	0.51	-100.97
27	32	95.95	0.57	-3.48e-04	-21.33	0.0	7.16	-43.43	0.33	0.24	-0.64	95.95
		-104.74	-0.64	6.19e-06	0.0	371.0	7.16	-64.76	0.33	0.24	0.57	-104.74
27	33	108.96	0.18	-4.29e-04	-21.33	0.0	0.74	71.73	-0.10	-0.25	0.18	-117.61
		-117.61	-0.20	-4.19e-06	0.0	371.0	0.74	50.40	-0.10	-0.25	-0.20	108.96
27	34	105.19	0.12	-4.15e-04	-21.33	0.0	1.35	69.72	-0.07	-0.22	0.12	-113.92
		-113.92	-0.15	-3.05e-06	0.0	371.0	1.35	48.39	-0.07	-0.22	-0.15	105.19
27	35	97.59	0.58	-3.51e-04	-21.33	0.0	6.28	-44.29	0.33	0.26	-0.65	97.59
		-106.30	-0.65	6.56e-06	0.0	371.0	6.28	-65.62	0.33	0.26	0.58	-106.30
27	36	90.62	0.50	-3.39e-04	-21.33	0.0	7.44	-40.55	0.29	0.20	-0.57	90.62
		-99.42	-0.57	5.17e-06	0.0	371.0	7.44	-61.89	0.29	0.20	0.50	-99.42
27	37	103.63	0.11	-4.06e-04	-21.33	0.0	0.47	68.86	-0.07	-0.21	0.11	-112.28
		-112.28	-0.14	-2.13e-06	0.0	371.0	0.47	47.53	-0.07	-0.21	-0.14	103.63
27	38	110.52	0.19	-4.38e-04	-21.33	0.0	1.63	72.60	-0.11	-0.26	0.19	-119.25
		-119.25	-0.21	-5.10e-06	0.0	371.0	1.63	51.27	-0.11	-0.26	-0.21	110.52
27	39	13.52	0.18	-2.03e-04	-21.33	0.0	3.94	1.11	0.11	0.02	-0.23	13.42
		-22.02	-0.23	-2.94e-06	0.0	371.0	3.94	-20.22	0.11	0.02	0.18	-22.02
27	40	25.70	0.37	-1.86e-04	-21.33	0.0	5.98	-5.59	0.21	0.10	-0.42	25.70
		-34.59	-0.42	3.89e-06	0.0	371.0	5.98	-26.92	0.21	0.10	0.37	-34.59
27	41	38.80	-7.92e-04	-2.83e-04	-21.33	0.0	1.92	33.89	0.01	-0.10	-0.04	-47.36
		-47.36	-0.04	-2.04e-06	0.0	371.0	1.92	12.56	0.01	-0.10	-7.92e-04	38.80
27	42	26.24	0.19	-2.37e-04	-21.33	0.0	3.96	27.19	0.11	-0.02	-0.23	-35.08
		-35.08	-0.23	2.65e-06	0.0	371.0	3.96	5.86	0.11	-0.02	0.19	26.24
27	43	14.51	0.20	-1.97e-04	-21.33	0.0	3.80	0.53	0.12	0.03	-0.25	14.51
		-23.10	-0.25	2.17e-06	0.0	371.0	3.80	-20.80	0.12	0.03	0.20	-23.10
27	44	26.79	0.39	-1.85e-04	-21.33	0.0	5.84	-6.17	0.22	0.11	-0.44	26.79
		-35.67	-0.44	4.36e-06	0.0	371.0	5.84	-27.50	0.22	0.11	0.39	-35.67
27	45	39.88	-0.02	-2.90e-04	-21.33	0.0	2.06	34.48	8.83e-04	-0.11	-0.02	-48.45
		-48.45	-0.02	-3.30e-06	0.0	371.0	2.06	13.14	8.83e-04	-0.11	-0.02	39.88
27	46	27.31	0.17	-2.44e-04	-21.33	0.0	4.10	27.78	0.10	-0.03	-0.21	-36.17
		-36.17	-0.21	2.14e-06	0.0	371.0	4.10	6.44	0.10	-0.03	0.17	27.31
27	47	31.19	0.40	-1.89e-04	-21.33	0.0	3.02	-8.46	0.23	0.16	-0.46	31.19
		-39.79	-0.46	5.13e-06	0.0	371.0	3.02	-29.80	0.23	0.16	0.40	-39.79
27	48	9.32	0.15	-2.26e-04	-21.33	0.0	6.90	3.99	0.09	-0.04	-0.19	7.93
		-16.83	-0.19	-5.71e-06	0.0	371.0	6.90	-17.34	0.09	-0.04	0.15	-16.83
27	49	21.04	0.22	-2.09e-04	-21.33	0.0	1.01	24.31	0.13	0.03	-0.27	-29.59
		-29.59	-0.27	4.81e-06	0.0	371.0	1.01	2.98	0.13	0.03	0.22	21.04
27	50	44.00	4.14e-03	-3.13e-04	-21.33	0.0	4.88	36.77	-0.01	-0.16	4.14e-03	-52.85
		-52.85	-0.03	-5.09e-06	0.0	371.0	4.88	15.44	-0.01	-0.16	-0.03	44.00
27	51	32.28	0.42	-1.90e-04	-21.33	0.0	2.89	-9.05	0.24	0.16	-0.48	32.28
		-40.86	-0.48	5.67e-06	0.0	371.0	2.89	-30.38	0.24	0.16	0.42	-40.86
27	52	10.00	0.16	-2.20e-04	-21.33	0.0	6.76	3.41	0.10	-0.03	-0.21	9.02
		-17.90	-0.21	-4.57e-06	0.0	371.0	6.76	-17.92	0.10	-0.03	0.16	-17.90
27	53	22.12	0.20	-2.15e-04	-21.33	0.0	1.14	24.90	0.12	0.03	-0.25	-30.68
		-30.68	-0.25	3.55e-06	0.0	371.0	1.14	3.57	0.12	0.03	0.20	22.12
27	54	45.08	0.02	-3.20e-04	-21.33	0.0	5.02	37.35	-0.02	-0.17	0.02	-53.94
		-53.94	-0.05	-6.34e-06	0.0	371.0	5.02	16.02	-0.02	-0.17	-0.05	45.08
27	55	6.17	0.17	-1.83e-04	-21.33	0.0	3.62	13.84	0.10	-1.11e-03	-0.21	-10.46
		-10.46	-0.21	1.97e-06	0.0	371.0	3.62	-7.50	0.10	-1.11e-03	0.17	1.30
27	56	6.57	0.18	-2.00e-04	-21.33	0.0	3.95	14.15	0.11	-1.94e-03	-0.23	-10.83
		-10.83	-0.23	2.16e-06	0.0	371.0	3.95	-7.18	0.11	-1.94e-03	0.18	2.11
28	1	7.13	0.49	2.58e-04	-27.73	0.0	6.36	16.85	1.69	0.11	-1.10	-11.85
		-11.85	-1.10	-1.21e-05	-3.34	371.0	6.36	-10.88	-1.65	0.11	-1.02	-0.77
28	2	7.16	0.49	2.62e-04	-27.73	0.0	6.41	16.84	1.69	0.11	-1.10	-11.80
		-11.80	-1.10	-1.21e-05	-3.34	371.0	6.41	-10.89	-1.65	0.11	-1.02	-0.76
28	3	8.50	0.48	3.46e-04	-27.73	0.0	8.78	17.93	1.70	0.15	-1.12	-12.97
		-12.97	-1.12	-1.10e-05	-3.34	371.0	8.78	-9.81	-1.64	0.15	-1.02	2.10
28	4	8.53	0.48	3.50e-04	-27.73	0.0	8.84	17.91	1.70	0.15	-1.12	-12.91
		-12.91	-1.12	-1.10e-05	-3.34	371.0	8.84	-9.82	-1.64	0.15	-1.02	2.11
28	5	4.94	0.50	1.58e-04	-21.33	0.0	3.63	12.62	1.68	0.07	-1.07	-8.87
		-8.87	-1.07	-1.32e-05	-3.34	371.0	3.63	-8.72	-1.66	0.07	-1.03	-1.63
28	6	4.97	0.50	1.62e-04	-21.33	0.0	3.69	12.60	1.68	0.07	-1.07	-8.81
		-8.81	-1.07	-1.32e-05	-3.34	371.0	3.69	-8.73	-1.66	0.07	-1.03	-1.62
28	7	6.30	0.49	2.46e-04	-21.33	0.0	6.05	13.69	1.69	0.10	-1.09	-9.99
		-9.99	-1.09	-1.21e-05	-3.34	371.0	6.05	-7.64	-1.65	0.10	-1.03	1.24
28	8	6.33	0.49	2.50e-04	-21.33	0.0	6.11	13.68	1.69	0.10	-1.09	-9.93

		-9.93	-1.09	-1.21e-05	-3.34	371.0	6.11	-7.65	-1.65	0.10	-1.03	1.25
28	9	7.18	0.49	2.67e-04	-27.73	0.0	6.47	16.83	1.69	0.11	-1.10	-11.74
		-11.74	-1.10	-1.21e-05	-3.34	371.0	6.47	-10.91	-1.65	0.11	-1.02	-0.76
28	10	8.09	0.48	3.20e-04	-27.73	0.0	8.05	17.60	1.69	0.14	-1.11	-12.63
		-12.63	-1.11	-1.13e-05	-3.34	371.0	8.05	-10.13	-1.64	0.14	-1.02	1.24
28	11	8.14	0.48	3.28e-04	-27.73	0.0	8.17	17.58	1.69	0.14	-1.12	-12.52
		-12.52	-1.12	-1.13e-05	-3.34	371.0	8.17	-10.15	-1.64	0.14	-1.02	1.25
28	12	5.00	0.50	1.66e-04	-21.33	0.0	3.75	12.59	1.68	0.07	-1.07	-8.76
		-8.76	-1.07	-1.32e-05	-3.34	371.0	3.75	-8.74	-1.66	0.07	-1.03	-1.61
28	13	5.89	0.49	2.19e-04	-21.33	0.0	5.32	13.37	1.69	0.09	-1.09	-9.65
		-9.65	-1.09	-1.24e-05	-3.34	371.0	5.32	-7.96	-1.65	0.09	-1.03	0.38
28	14	5.94	0.49	2.28e-04	-21.33	0.0	5.44	13.34	1.69	0.10	-1.09	-9.54
		-9.54	-1.09	-1.24e-05	-3.34	371.0	5.44	-7.99	-1.65	0.10	-1.03	0.39
28	15	7.25	0.83	2.59e-04	-27.73	0.0	5.89	17.11	2.80	0.10	-1.78	-12.32
		-12.32	-1.78	-2.20e-05	-5.57	371.0	5.89	-10.63	-2.76	0.10	-1.72	-0.30
28	16	7.28	0.83	2.63e-04	-27.73	0.0	5.94	17.09	2.80	0.10	-1.78	-12.27
		-12.27	-1.78	-2.20e-05	-5.57	371.0	5.94	-10.64	-2.76	0.10	-1.72	-0.29
28	17	8.21	0.82	3.20e-04	-27.73	0.0	7.58	17.86	2.80	0.13	-1.80	-13.10
		-13.10	-1.80	-2.12e-05	-5.57	371.0	7.58	-9.87	-2.76	0.13	-1.72	1.71
28	18	8.24	0.82	3.24e-04	-27.73	0.0	7.64	17.85	2.80	0.13	-1.80	-13.05
		-13.05	-1.80	-2.12e-05	-5.57	371.0	7.64	-9.89	-2.76	0.13	-1.72	1.72
28	19	5.05	0.84	1.58e-04	-21.33	0.0	3.16	12.87	2.79	0.06	-1.75	-9.34
		-9.34	-1.75	-2.31e-05	-5.57	371.0	3.16	-8.46	-2.77	0.06	-1.72	-1.16
28	20	5.08	0.84	1.62e-04	-21.33	0.0	3.22	12.86	2.79	0.06	-1.76	-9.28
		-9.28	-1.76	-2.31e-05	-5.57	371.0	3.22	-8.47	-2.77	0.06	-1.72	-1.15
28	21	6.01	0.84	2.20e-04	-21.33	0.0	4.85	13.62	2.80	0.08	-1.77	-10.12
		-10.12	-1.77	-2.23e-05	-5.57	371.0	4.85	-7.71	-2.77	0.08	-1.72	0.85
28	22	6.04	0.84	2.24e-04	-21.33	0.0	4.91	13.61	2.80	0.09	-1.77	-10.06
		-10.06	-1.77	-2.23e-05	-5.57	371.0	4.91	-7.72	-2.77	0.09	-1.72	0.86
28	23	92.09	0.28	3.68e-04	-21.33	0.0	6.59	-41.29	0.16	0.12	-0.33	92.09
		-100.66	-0.33	3.70e-06	0.0	371.0	6.59	-62.62	0.16	0.12	0.28	-100.66
28	24	95.84	0.34	3.78e-04	-21.33	0.0	7.46	-43.30	0.19	0.15	-0.38	95.84
		-104.38	-0.38	4.49e-06	0.0	371.0	7.46	-64.64	0.19	0.15	0.34	-104.38
28	25	102.93	0.26	2.71e-04	-21.33	0.0	4.08	68.96	-0.15	0.05	0.26	-113.33
		-113.33	-0.31	2.63e-06	0.0	371.0	4.08	47.63	-0.15	0.05	-0.31	102.93
28	26	99.21	0.20	2.62e-04	-21.33	0.0	4.95	66.94	-0.12	0.08	0.20	-109.57
		-109.57	-0.25	3.42e-06	0.0	371.0	4.95	45.61	-0.12	0.08	-0.25	99.21
28	27	97.50	0.35	3.90e-04	-21.33	0.0	6.67	-44.18	0.20	0.17	-0.39	97.50
		-105.99	-0.39	4.48e-06	0.0	371.0	6.67	-65.51	0.20	0.17	0.35	-105.99
28	28	90.43	0.27	3.56e-04	-21.33	0.0	7.37	-40.41	0.16	0.09	-0.32	90.43
		-99.05	-0.32	3.71e-06	0.0	371.0	7.37	-61.74	0.16	0.09	0.27	-99.05
28	29	97.61	0.19	2.59e-04	-21.33	0.0	4.16	66.06	-0.12	0.11	0.19	-107.92
		-107.92	-0.24	3.15e-06	0.0	371.0	4.16	44.73	-0.12	0.11	-0.24	97.61
28	30	104.54	0.27	2.73e-04	-21.33	0.0	4.86	69.84	-0.16	0.02	0.27	-114.98
		-114.98	-0.31	2.90e-06	0.0	371.0	4.86	48.50	-0.16	0.02	-0.31	104.54
28	31	95.77	0.33	3.83e-04	-21.33	0.0	6.57	-43.25	0.19	0.13	-0.38	95.77
		-104.27	-0.38	3.98e-06	0.0	371.0	6.57	-64.59	0.19	0.13	0.33	-104.27
28	32	99.53	0.39	3.93e-04	-21.33	0.0	7.43	-45.27	0.22	0.16	-0.43	99.53
		-108.00	-0.43	4.75e-06	0.0	371.0	7.43	-66.60	0.22	0.16	0.39	-108.00
28	33	106.55	0.31	2.79e-04	-21.33	0.0	4.11	70.93	-0.18	0.04	0.31	-117.02
		-117.02	-0.35	3.05e-06	0.0	371.0	4.11	49.59	-0.18	0.04	-0.35	106.55
28	34	102.83	0.25	2.70e-04	-21.33	0.0	4.97	68.91	-0.15	0.07	0.25	-113.26
		-113.26	-0.30	3.84e-06	0.0	371.0	4.97	47.58	-0.15	0.07	-0.30	102.83
28	35	101.18	0.40	4.05e-04	-21.33	0.0	6.65	-46.15	0.23	0.19	-0.44	101.18
		-109.60	-0.44	4.74e-06	0.0	371.0	6.65	-67.48	0.23	0.19	0.40	-109.60
28	36	94.12	0.32	3.71e-04	-21.33	0.0	7.35	-42.38	0.19	0.10	-0.37	94.12
		-102.67	-0.37	3.97e-06	0.0	371.0	7.35	-63.71	0.19	0.10	0.32	-102.67
28	37	101.22	0.24	2.67e-04	-21.33	0.0	4.19	68.03	-0.14	0.10	0.24	-111.60
		-111.60	-0.29	3.57e-06	0.0	371.0	4.19	46.70	-0.14	0.10	-0.29	101.22
28	38	108.15	0.32	2.81e-04	-21.33	0.0	4.89	71.80	-0.18	0.01	0.32	-118.67
		-118.67	-0.36	3.32e-06	0.0	371.0	4.89	50.47	-0.18	0.01	-0.36	108.15
28	39	15.81	0.01	2.11e-04	-21.33	0.0	4.70	-0.35	0.02	0.05	-0.06	15.81
		-25.06	-0.06	1.29e-06	0.0	371.0	4.70	-21.68	0.02	0.05	0.01	-25.06
28	40	28.33	0.20	2.33e-04	-21.33	0.0	7.58	-7.07	0.12	0.16	-0.24	28.33
		-37.47	-0.24	5.17e-06	0.0	371.0	7.58	-28.40	0.12	0.16	0.20	-37.47
28	41	36.02	0.12	2.05e-04	-21.33	0.0	3.95	32.72	-0.08	0.03	0.12	-45.82
		-45.82	-0.17	1.21e-06	0.0	371.0	3.95	11.39	-0.08	0.03	-0.17	36.02
28	42	23.61	0.02	2.12e-04	-21.33	0.0	6.83	26.00	0.02	0.14	-0.07	-33.29
		-33.29	-0.07	4.26e-06	0.0	371.0	6.83	4.67	0.02	0.14	0.02	23.61
28	43	16.91	0.02	2.14e-04	-21.33	0.0	4.70	-0.94	0.03	0.06	-0.07	16.91
		-26.14	-0.07	1.34e-06	0.0	371.0	4.70	-22.27	0.03	0.06	0.02	-26.14
28	44	29.44	0.21	2.37e-04	-21.33	0.0	7.58	-7.66	0.13	0.17	-0.26	29.44
		-38.55	-0.26	5.12e-06	0.0	371.0	7.58	-28.99	0.13	0.17	0.21	-38.55
28	45	37.10	0.13	2.03e-04	-21.33	0.0	3.96	33.32	-0.08	0.03	0.13	-46.92
		-46.92	-0.18	1.32e-06	0.0	371.0	3.96	11.98	-0.08	0.03	-0.18	37.10
28	46	24.69	9.22e-03	2.10e-04	-21.33	0.0	6.84	26.59	0.02	0.14	-0.05	-34.40
		-34.40	-0.05	4.31e-06	0.0	371.0	6.84	5.26	0.02	0.14	9.22e-03	24.69
28	47	33.85	0.23	2.73e-04	-21.33	0.0	4.98	-10.00	0.14	0.25	-0.28	33.85
		-42.82	-0.28	4.18e-06	0.0	371.0	4.98	-31.33	0.14	0.25	0.23	-42.82
28	48	10.87	-0.02	1.74e-04	-21.33	0.0	7.31	2.58	1.00e-04	-0.03	-0.02	10.29
		-19.71	-0.02	1.67e-06	0.0	371.0	7.31	-18.75	1.00e-04	-0.03	-0.02	-19.71
28	49	18.26	0.06	2.46e-04	-21.33	0.0	4.22	23.08	0.04	0.23	-0.10	-27.78
		-27.78	-0.10	3.27e-06	0.0	371.0	4.22	1.74	0.04	0.23	0.06	18.26
28	50	41.37	0.15	1.71e-04	-21.33	0.0	6.56	35.65	-0.09	-0.05	0.15	-51.33
		-51.33	-0.20	2.05e-06	0.0	371.0	6.56	14.32	-0.09	-0.05	-0.20	41.37
28	51	34.95	0.25	2.77e-04	-21.33	0.0	4.97	-10.59	0.15	0.25	-0.29	34.95
		-43.90	-0.29	4.13e-06	0.0	371.0	4.97	-31.92	0.15	0.25	0.25	-43.90
28	52	11.70	-7.56e-03	1.77e-04	-21.33	0.0	7.30	1.99	7.90e-03	-0.03	-0.04	11.40
		-20.79	-0.04	1.62e-06	0.0	371.0	7.30	-19.34	7.90e-03	-0.03	-7.56e-03	-20.79
28	53	19.35	0.04	2.44e-04	-21.33	0.0	4.23	23.67	0.03	0.23	-0.09	-28.88
		-28.88	-0.09	3.32e-06	0.0	371.0	4.23	2.33	0.03	0.23	0.04	19.35
28	54	42.45	0.17	1.68e-04	-21.33	0.0	6.57	36.24	-0.10	-0.05	0.17	-52.44
		-52.44	-0.21	2.18e-06	0.0	371.0	6.57	14.91	-0.10	-0.05	-0.21	42.45
28	55	5.28	0.02	1.93e-04	-21.33	0.0	5.28	12.61	0.02	0.09	-0.06	-8.52
		-8.52	-0.06	2.04e-06	0.0	371.0	5.28	-8.72	0.02	0.09	0.02	-1.30
28	56	5.54	0.02	2.10e-04	-21.33	0.0	5.77	12.83	0.02	0.10	-0.06	-8.74

		-8.74	-0.06	2.28e-06	0.0	371.0	5.77	-8.50	0.02	0.10	0.02	-0.72
29	1	13.73	0.47	1.40e-03	-27.73	0.0	7.51	7.23	1.51	-0.31	-0.80	10.24
		-14.38	-1.38	-8.33e-06	-3.34	371.0	7.51	-20.50	-1.83	-0.31	-1.38	-14.38
29	2	13.88	0.47	1.42e-03	-27.73	0.0	7.55	7.09	1.51	-0.30	-0.79	10.52
		-14.63	-1.38	-8.33e-06	-3.34	371.0	7.55	-20.65	-1.83	-0.30	-1.38	-14.63
29	3	18.97	0.47	1.91e-03	-27.73	0.0	10.15	4.33	1.44	-0.56	-0.69	17.76
		-17.63	-1.52	1.31e-05	-3.34	371.0	10.15	-23.41	-1.89	-0.56	-1.52	-17.63
29	4	19.18	0.47	1.92e-03	-27.73	0.0	10.19	4.18	1.44	-0.56	-0.69	18.05
		-17.87	-1.53	1.31e-05	-3.34	371.0	10.19	-23.55	-1.90	-0.56	-1.53	-17.87
29	5	8.51	0.48	8.50e-04	-21.33	0.0	4.39	7.00	1.58	-0.05	-0.89	4.26
		-9.34	-1.24	-1.09e-05	-3.34	371.0	4.39	-14.33	-1.76	-0.05	-1.24	-9.34
29	6	8.63	0.48	8.65e-04	-21.33	0.0	4.43	6.86	1.58	-0.05	-0.89	4.55
		-9.59	-1.24	-1.09e-05	-3.34	371.0	4.43	-14.48	-1.76	-0.05	-1.24	-9.59
29	7	13.24	0.48	1.36e-03	-21.33	0.0	7.03	4.10	1.51	-0.30	-0.79	11.79
		-12.59	-1.38	8.88e-06	-3.34	371.0	7.03	-17.24	-1.83	-0.30	-1.38	-12.59
29	8	13.43	0.48	1.37e-03	-21.33	0.0	7.07	3.95	1.51	-0.30	-0.79	12.07
		-12.84	-1.38	8.86e-06	-3.34	371.0	7.07	-17.38	-1.83	-0.30	-1.38	-12.84
29	9	14.03	0.47	1.43e-03	-27.73	0.0	7.59	6.94	1.51	-0.30	-0.79	10.81
		-14.87	-1.38	-8.33e-06	-3.34	371.0	7.59	-20.79	-1.83	-0.30	-1.38	-14.87
29	10	17.31	0.47	1.76e-03	-27.73	0.0	9.36	5.20	1.46	-0.48	-0.72	15.51
		-16.65	-1.48	1.16e-05	-3.34	371.0	9.36	-22.53	-1.87	-0.48	-1.48	-16.65
29	11	17.68	0.47	1.79e-03	-27.73	0.0	9.44	4.91	1.46	-0.48	-0.72	16.07
		-17.15	-1.48	1.15e-05	-3.34	371.0	9.44	-22.82	-1.88	-0.48	-1.48	-17.15
29	12	8.75	0.48	8.80e-04	-21.33	0.0	4.47	6.71	1.58	-0.04	-0.89	4.83
		-9.84	-1.24	-1.09e-05	-3.34	371.0	4.47	-14.62	-1.76	-0.04	-1.24	-9.84
29	13	11.66	0.48	1.21e-03	-21.33	0.0	6.24	4.97	1.53	-0.23	-0.82	9.53
		-11.61	-1.34	-8.93e-06	-3.34	371.0	6.24	-16.37	-1.81	-0.23	-1.34	-11.61
29	14	11.96	0.48	1.24e-03	-21.33	0.0	6.32	4.68	1.53	-0.22	-0.82	10.09
		-12.11	-1.34	-8.94e-06	-3.34	371.0	6.32	-16.65	-1.81	-0.22	-1.34	-12.11
29	15	13.44	0.81	1.40e-03	-27.73	0.0	6.93	7.51	2.63	-0.34	-1.49	9.69
		-13.90	-2.06	-1.83e-05	-5.57	371.0	6.93	-20.22	-2.94	-0.34	-2.06	-13.90
29	16	13.59	0.81	1.41e-03	-27.73	0.0	6.97	7.37	2.63	-0.34	-1.49	9.97
		-14.15	-2.06	-1.83e-05	-5.57	371.0	6.97	-20.37	-2.94	-0.34	-2.06	-14.15
29	17	16.95	0.80	1.75e-03	-27.73	0.0	8.78	5.48	2.58	-0.52	-1.42	14.95
		-16.17	-2.16	-1.64e-05	-5.57	371.0	8.78	-22.26	-2.98	-0.52	-2.16	-16.17
29	18	17.14	0.80	1.77e-03	-27.73	0.0	8.82	5.33	2.58	-0.51	-1.42	15.24
		-16.42	-2.16	-1.64e-05	-5.57	371.0	8.82	-22.40	-2.98	-0.51	-2.16	-16.42
29	19	8.28	0.83	8.46e-04	-21.33	0.0	3.81	7.28	2.69	-0.08	-1.59	3.71
		-8.86	-1.91	-2.11e-05	-5.57	371.0	3.81	-14.06	-2.87	-0.08	-1.91	-8.86
29	20	8.40	0.83	8.61e-04	-21.33	0.0	3.85	7.13	2.69	-0.08	-1.59	3.99
		-9.11	-1.92	-2.11e-05	-5.57	371.0	3.85	-14.20	-2.87	-0.08	-1.92	-9.11
29	21	11.37	0.82	1.20e-03	-21.33	0.0	5.66	5.25	2.65	-0.26	-1.52	8.97
		-11.14	-2.01	-1.89e-05	-5.57	371.0	5.66	-16.09	-2.92	-0.26	-2.01	-11.14
29	22	11.52	0.82	1.22e-03	-21.33	0.0	5.70	5.10	2.65	-0.26	-1.51	9.26
		-11.38	-2.02	-1.89e-05	-5.57	371.0	5.70	-16.23	-2.92	-0.26	-2.02	-11.38
29	23	114.16	-0.05	1.27e-03	-21.33	0.0	5.00	-52.44	4.10e-03	-0.13	-0.06	114.16
		-119.98	-0.06	9.25e-06	0.0	371.0	5.00	-73.77	4.10e-03	-0.13	-0.05	-119.98
29	24	118.35	5.25e-03	1.29e-03	-21.33	0.0	5.96	-54.69	0.03	-0.04	-0.11	118.35
		-124.14	-0.11	1.25e-05	0.0	371.0	5.96	-76.02	0.03	-0.04	5.25e-03	-124.14
29	25	100.03	0.52	1.08e-03	-21.33	0.0	7.68	64.37	-0.31	-0.41	0.52	-99.22
		-99.22	-0.61	8.37e-06	0.0	371.0	7.68	43.04	-0.31	-0.41	-0.61	100.03
29	26	95.87	0.47	1.10e-03	-21.33	0.0	8.64	62.12	-0.28	-0.32	0.47	-95.03
		-95.03	-0.56	1.07e-05	0.0	371.0	8.64	40.78	-0.28	-0.32	-0.56	95.87
29	27	120.15	0.01	1.29e-03	-21.33	0.0	5.09	-55.77	0.03	-0.13	-0.12	120.15
		-126.37	-0.12	9.76e-06	0.0	371.0	5.09	-77.11	0.03	-0.13	0.01	-126.37
29	28	112.36	-0.05	1.27e-03	-21.33	0.0	5.87	-51.36	5.01e-04	-0.04	-0.06	112.36
		-117.75	-0.06	1.19e-05	0.0	371.0	5.87	-72.69	5.01e-04	-0.04	-0.05	-117.75
29	29	93.64	0.47	1.09e-03	-21.33	0.0	7.77	61.03	-0.27	-0.41	0.47	-93.23
		-93.23	-0.55	8.35e-06	0.0	371.0	7.77	39.70	-0.27	-0.41	-0.55	93.64
29	30	102.26	0.53	1.09e-03	-21.33	0.0	8.55	65.45	-0.31	-0.32	0.53	-101.02
		-101.02	-0.62	1.07e-05	0.0	371.0	8.55	44.12	-0.31	-0.32	-0.62	102.26
29	31	118.24	-2.91e-03	1.30e-03	-21.33	0.0	5.16	-54.77	0.03	-0.08	-0.10	118.24
		-124.54	-0.10	9.36e-06	0.0	371.0	5.16	-76.10	0.03	-0.08	-2.91e-03	-124.54
29	32	122.43	0.05	1.32e-03	-21.33	0.0	6.11	-57.02	0.05	2.28e-03	-0.15	122.43
		-128.71	-0.15	1.27e-05	0.0	371.0	6.11	-78.36	0.05	2.28e-03	0.05	-128.71
29	33	104.60	0.56	1.06e-03	-21.33	0.0	7.53	66.70	-0.33	-0.45	0.56	-103.30
		-103.30	-0.65	8.59e-06	0.0	371.0	7.53	45.37	-0.33	-0.45	-0.65	104.60
29	34	100.43	0.51	1.07e-03	-21.33	0.0	8.48	64.45	-0.30	-0.36	0.51	-99.11
		-99.11	-0.60	1.09e-05	0.0	371.0	8.48	43.12	-0.30	-0.36	-0.60	100.43
29	35	124.23	0.06	1.32e-03	-21.33	0.0	5.24	-58.11	0.06	-0.09	-0.16	124.23
		-130.94	-0.16	9.95e-06	0.0	371.0	5.24	-79.44	0.06	-0.09	0.06	-130.94
29	36	116.44	-0.01	1.30e-03	-21.33	0.0	6.03	-53.69	0.02	5.95e-03	-0.10	116.44
		-122.32	-0.10	1.21e-05	0.0	371.0	6.03	-75.02	0.02	5.95e-03	-0.01	-122.32
29	37	98.21	0.51	1.06e-03	-21.33	0.0	7.62	63.37	-0.30	-0.45	0.51	-97.31
		-97.31	-0.60	8.56e-06	0.0	371.0	7.62	42.03	-0.30	-0.45	-0.60	98.21
29	38	106.83	0.57	1.06e-03	-21.33	0.0	8.40	67.78	-0.33	-0.36	0.57	-105.10
		-105.10	-0.66	1.08e-05	0.0	371.0	8.40	46.45	-0.33	-0.36	-0.66	106.83
29	39	34.59	0.20	1.15e-03	-21.33	0.0	4.83	-8.93	-0.14	-0.32	0.20	34.59
		-38.11	-0.30	6.29e-06	0.0	371.0	4.83	-30.26	-0.14	-0.32	-0.30	-38.11
29	40	48.56	0.04	1.20e-03	-21.33	0.0	8.01	-16.44	-0.05	-0.04	0.04	48.56
		-52.00	-0.13	1.46e-05	0.0	371.0	8.01	-37.77	-0.05	-0.04	-0.13	-52.00
29	41	27.89	0.38	1.11e-03	-21.33	0.0	5.63	26.11	-0.23	-0.41	0.38	-29.43
		-29.43	-0.47	6.10e-06	0.0	371.0	5.63	4.78	-0.23	-0.41	-0.47	27.89
29	42	14.65	0.21	1.16e-03	-21.33	0.0	8.82	18.61	-0.14	-0.12	0.21	-15.45
		-15.45	-0.30	1.39e-05	0.0	371.0	8.82	-2.73	-0.14	-0.12	-0.30	14.00
29	43	35.81	0.19	1.16e-03	-21.33	0.0	4.87	-9.63	-0.13	-0.31	0.19	35.81
		-39.48	-0.29	6.22e-06	0.0	371.0	4.87	-30.96	-0.13	-0.31	-0.29	-39.48
29	44	49.78	0.02	1.21e-03	-21.33	0.0	8.06	-17.14	-0.04	-0.03	0.02	49.78
		-53.37	-0.12	1.46e-05	0.0	371.0	8.06	-38.47	-0.04	-0.03	-0.12	-53.37
29	45	29.26	0.39	1.10e-03	-21.33	0.0	5.58	26.81	-0.24	-0.42	0.39	-30.65
		-30.65	-0.49	6.16e-06	0.0	371.0	5.58	5.48	-0.24	-0.42	-0.49	29.26
29	46	15.69	0.22	1.15e-03	-21.33	0.0	8.77	19.31	-0.14	-0.14	0.22	-16.68
		-16.68	-0.31	1.39e-05	0.0	371.0	8.77	-2.03	-0.14	-0.14	-0.31	15.37
29	47	54.55	0.02	1.17e-03	-21.33	0.0	5.12	-20.05	-0.03	-0.33	0.02	54.55
		-59.42	-0.11	6.22e-06	0.0	371.0	5.12	-41.38	-0.03	-0.33	-0.11	-59.42
29	48	28.60	0.22	1.17e-03	-21.33	0.0	7.72	-5.32	-0.15	-0.03	0.22	28.60

		-30.69	-0.33	1.39e-05	0.0	371.0	7.72	-26.65	-0.15	-0.03	-0.33	-30.69
29	49	10.07	0.19	1.13e-03	-21.33	0.0	5.92	15.00	-0.13	-0.42	0.19	-9.47
		-9.47	-0.28	6.02e-06	0.0	371.0	5.92	-6.34	-0.13	-0.42	-0.28	6.58
29	50	35.31	0.39	1.14e-03	-21.33	0.0	8.52	29.72	-0.24	-0.11	0.39	-35.42
		-35.42	-0.50	1.36e-05	0.0	371.0	8.52	8.39	-0.24	-0.11	-0.50	35.31
29	51	55.77	4.34e-03	1.18e-03	-21.33	0.0	5.16	-20.74	-0.03	-0.32	4.34e-03	55.77
		-60.79	-0.09	6.15e-06	0.0	371.0	5.16	-42.08	-0.03	-0.32	-0.09	-60.79
29	52	29.82	0.21	1.18e-03	-21.33	0.0	7.77	-6.02	-0.14	-0.01	0.21	29.82
		-32.06	-0.32	1.39e-05	0.0	371.0	7.77	-27.35	-0.14	-0.01	-0.32	-32.06
29	53	10.71	0.20	1.13e-03	-21.33	0.0	5.87	15.70	-0.13	-0.43	0.20	-10.69
		-10.69	-0.29	6.09e-06	0.0	371.0	5.87	-5.64	-0.13	-0.43	-0.29	7.95
29	54	36.68	0.41	1.13e-03	-21.33	0.0	8.48	30.42	-0.25	-0.12	0.41	-36.64
		-36.64	-0.51	1.37e-05	0.0	371.0	8.48	9.09	-0.25	-0.12	-0.51	36.68
29	55	10.61	0.18	1.05e-03	-21.33	0.0	6.29	5.42	-0.12	-0.17	0.18	8.06
		-11.41	-0.27	8.85e-06	0.0	371.0	6.29	-15.91	-0.12	-0.17	-0.27	-11.41
29	56	11.58	0.21	1.15e-03	-21.33	0.0	6.82	4.84	-0.14	-0.22	0.21	9.57
		-12.06	-0.30	9.92e-06	0.0	371.0	6.82	-16.49	-0.14	-0.22	-0.30	-12.06
30	1	66.12	0.85	1.03e-03	-12.63	0.0	4.85	-66.43	-0.46	-13.83	0.85	66.12
		-56.82	-1.21	6.55e-06	-1.52	169.0	4.85	-79.06	-1.98	-13.83	-1.21	-56.82
30	2	66.29	0.85	1.03e-03	-12.63	0.0	4.87	-66.63	-0.46	-13.85	0.85	66.29
		-56.98	-1.21	6.51e-06	-1.52	169.0	4.87	-79.26	-1.98	-13.85	-1.21	-56.98
30	3	89.71	1.26	1.39e-03	-12.63	0.0	6.61	-91.86	-0.93	-18.01	1.26	89.71
		-76.20	-1.60	9.81e-06	-1.52	169.0	6.61	-104.49	-2.45	-18.01	-1.60	-76.20
30	4	89.89	1.26	1.39e-03	-12.63	0.0	6.63	-92.05	-0.93	-18.03	1.26	89.89
		-76.35	-1.60	9.77e-06	-1.52	169.0	6.63	-104.68	-2.45	-18.03	-1.60	-76.35
30	5	40.18	0.44	6.38e-04	-9.72	0.0	2.78	-39.66	0.02	-8.31	0.44	40.18
		-35.05	-0.82	3.99e-06	-1.52	169.0	2.78	-49.37	-1.50	-8.31	-0.82	-35.05
30	6	40.35	0.44	6.43e-04	-9.72	0.0	2.80	-39.85	0.02	-8.33	0.44	40.35
		-35.21	-0.82	3.95e-06	-1.52	169.0	2.80	-49.57	-1.50	-8.33	-0.82	-35.21
30	7	63.77	0.85	9.98e-04	-9.72	0.0	4.54	-65.08	-0.45	-12.49	0.85	63.77
		-54.42	-1.20	7.24e-06	-1.52	169.0	4.54	-74.80	-1.97	-12.49	-1.20	-54.42
30	8	63.95	0.85	1.00e-03	-9.72	0.0	4.55	-65.28	-0.45	-12.51	0.85	63.95
		-54.58	-1.20	7.20e-06	-1.52	169.0	4.55	-74.99	-1.98	-12.51	-1.20	-54.58
30	9	66.47	0.85	1.04e-03	-12.63	0.0	4.89	-66.82	-0.46	-13.87	0.85	66.47
		-57.14	-1.21	6.47e-06	-1.52	169.0	4.89	-79.45	-1.98	-13.87	-1.21	-57.14
30	10	82.64	1.14	1.28e-03	-12.63	0.0	6.08	-84.23	-0.79	-16.75	1.14	82.64
		-70.38	-1.48	8.83e-06	-1.52	169.0	6.08	-96.86	-2.31	-16.75	-1.48	-70.38
30	11	82.98	1.14	1.29e-03	-12.63	0.0	6.12	-84.62	-0.79	-16.80	1.14	82.98
		-70.70	-1.48	8.75e-06	-1.52	169.0	6.12	-97.25	-2.31	-16.80	-1.48	-70.70
30	12	40.53	0.44	6.48e-04	-9.72	0.0	2.82	-40.05	0.02	-8.35	0.44	40.53
		-35.36	-0.82	3.91e-06	-1.52	169.0	2.82	-49.76	-1.51	-8.35	-0.82	-35.36
30	13	56.70	0.73	8.90e-04	-9.72	0.0	4.01	-57.45	-0.31	-11.24	0.73	56.70
		-48.61	-1.09	6.27e-06	-1.52	169.0	4.01	-67.17	-1.83	-11.24	-1.09	-48.61
30	14	57.04	0.73	9.00e-04	-9.72	0.0	4.05	-57.84	-0.31	-11.28	0.73	57.04
		-48.93	-1.09	6.19e-06	-1.52	169.0	4.05	-67.56	-1.84	-11.28	-1.09	-48.93
30	15	65.36	0.69	1.01e-03	-12.63	0.0	4.41	-65.85	0.08	-14.74	0.69	65.36
		-56.61	-1.32	6.21e-06	-2.54	169.0	4.41	-78.49	-2.46	-14.74	-1.32	-56.61
30	16	65.53	0.69	1.02e-03	-12.63	0.0	4.43	-66.05	0.08	-14.76	0.69	65.53
		-56.76	-1.32	6.17e-06	-2.54	169.0	4.43	-78.68	-2.46	-14.76	-1.32	-56.76
30	17	81.87	0.97	1.26e-03	-12.63	0.0	5.64	-83.65	-0.25	-17.66	0.97	81.87
		-70.17	-1.59	8.49e-06	-2.54	169.0	5.64	-96.28	-2.79	-17.66	-1.59	-70.17
30	18	82.05	0.98	1.27e-03	-12.63	0.0	5.66	-83.85	-0.25	-17.68	0.98	82.05
		-70.33	-1.59	8.45e-06	-2.54	169.0	5.66	-96.48	-2.79	-17.68	-1.59	-70.33
30	19	39.42	0.38	6.21e-04	-9.72	0.0	2.34	-39.08	0.56	-9.22	0.27	39.42
		-34.83	-0.93	3.65e-06	-2.54	169.0	2.34	-48.80	-1.98	-9.22	-0.93	-34.83
30	20	39.59	0.38	6.26e-04	-9.72	0.0	2.36	-39.27	0.55	-9.24	0.28	39.59
		-34.99	-0.93	3.61e-06	-2.54	169.0	2.36	-48.99	-1.98	-9.24	-0.93	-34.99
30	21	55.93	0.58	8.73e-04	-9.72	0.0	3.57	-56.88	0.22	-12.14	0.56	55.93
		-48.40	-1.20	5.92e-06	-2.54	169.0	3.57	-66.59	-2.31	-12.14	-1.20	-48.40
30	22	56.11	0.58	8.78e-04	-9.72	0.0	3.59	-57.07	0.22	-12.16	0.56	56.11
		-48.56	-1.20	5.88e-06	-2.54	169.0	3.59	-66.79	-2.31	-12.16	-1.20	-48.56
30	23	138.82	0.30	-8.49e-05	-9.72	0.0	0.98	-155.15	-0.23	-12.33	0.30	138.82
		-131.67	-0.08	-5.79e-06	0.0	169.0	0.98	-164.86	-0.23	-12.33	-0.08	-131.67
30	24	143.11	0.15	-8.38e-05	-9.72	0.0	1.40	-159.67	-0.04	-10.45	0.15	143.11
		-135.08	0.09	-4.74e-06	0.0	169.0	1.40	-169.39	-0.04	-10.45	0.09	-135.08
30	25	41.71	1.66	1.71e-03	-9.72	0.0	7.57	48.97	-2.04	-9.69	1.66	-32.96
		-32.96	-1.80	1.67e-05	0.0	169.0	7.57	39.25	-2.04	-9.69	-1.80	41.71
30	26	38.30	1.51	1.73e-03	-9.72	0.0	7.98	44.44	-1.85	-7.81	1.51	-28.68
		-28.68	-1.63	1.75e-05	0.0	169.0	7.98	34.72	-1.85	-7.81	-1.63	38.30
30	27	138.20	0.32	-8.19e-05	-9.72	0.0	0.82	-154.40	-0.27	-12.02	0.32	138.20
		-135.76	-0.13	-6.16e-06	0.0	169.0	0.82	-164.12	-0.27	-12.02	-0.13	-135.76
30	28	143.73	0.13	-8.68e-05	-9.72	0.0	1.55	-160.41	-4.35e-03	-10.77	0.13	143.73
		-130.99	0.13	-4.47e-06	0.0	169.0	1.55	-170.13	-4.35e-03	-10.77	0.13	-130.99
30	29	37.62	1.67	1.70e-03	-9.72	0.0	7.41	49.71	-2.08	-9.38	1.67	-33.59
		-33.59	-1.85	1.64e-05	0.0	169.0	7.41	39.99	-2.08	-9.38	-1.85	37.62
30	30	42.39	1.49	1.74e-03	-9.72	0.0	8.14	43.70	-1.81	-8.13	1.49	-28.05
		-28.05	-1.58	1.78e-05	0.0	169.0	8.14	33.98	-1.81	-8.13	-1.58	42.39
30	31	139.23	0.19	-9.42e-05	-9.72	0.0	0.84	-155.97	-0.08	-11.85	0.19	139.23
		-132.66	0.06	5.99e-06	0.0	169.0	0.84	-165.69	-0.08	-11.85	0.06	-132.66
30	32	143.51	0.24	-9.30e-05	-9.72	0.0	1.25	-160.49	0.11	-9.97	0.04	143.51
		-136.07	0.04	7.04e-06	0.0	169.0	1.25	-170.21	0.11	-9.97	0.24	-136.07
30	33	42.70	1.76	1.75e-03	-9.72	0.0	7.71	49.79	-2.19	-10.18	1.76	-33.37
		-33.37	-1.95	6.80e-06	0.0	169.0	7.71	40.07	-2.19	-10.18	-1.95	42.70
30	34	39.30	1.61	1.77e-03	-9.72	0.0	8.13	45.27	-2.00	-8.30	1.61	-29.09
		-29.09	-1.78	7.36e-06	0.0	169.0	8.13	35.55	-2.00	-8.30	-1.78	39.30
30	35	138.60	0.21	-9.11e-05	-9.72	0.0	0.68	-155.23	-0.12	-11.53	0.21	138.60
		-136.75	0.02	5.62e-06	0.0	169.0	0.68	-164.95	-0.12	-11.53	0.02	-136.75
30	36	144.14	0.28	-9.60e-05	-9.72	0.0	1.41	-161.24	0.15	-10.28	0.03	144.14
		-131.98	0.03	7.41e-06	0.0	169.0	1.41	-170.95	0.15	-10.28	0.28	-131.98
30	37	38.61	1.78	1.74e-03	-9.72	0.0	7.55	50.53	-2.23	-9.87	1.78	-34.00
		-34.00	-1.99	6.65e-06	0.0	169.0	7.55	40.81	-2.23	-9.87	-1.99	38.61
30	38	43.39	1.59	1.78e-03	-9.72	0.0	8.29	44.52	-1.96	-8.61	1.59	-28.46
		-28.46	-1.73	7.51e-06	0.0	169.0	8.29	34.81	-1.96	-8.61	-1.73	43.39
30	39	73.70	0.95	5.77e-04	-9.72	0.0	2.80	-78.43	-1.09	-13.60	0.95	73.70
		-67.02	-0.88	1.61e-06	0.0	169.0	2.80	-88.14	-1.09	-13.60	-0.88	-67.02
30	40	87.98	0.45	6.35e-04	-9.72	0.0	4.19	-93.51	-0.45	-7.34	0.45	87.98

		-78.37	-0.31	4.18e-06	0.0	169.0	4.19	-103.23	-0.45	-7.34	-0.31	-78.37
30	41	22.16	1.36	1.09e-03	-9.72	0.0	4.78	-17.19	-1.63	-12.81	1.36	22.16
		-15.00	-1.40	8.12e-06	0.0	169.0	4.78	-26.91	-1.63	-12.81	-1.40	-15.00
30	42	36.45	0.86	1.15e-03	-9.72	0.0	6.16	-32.28	-1.00	-6.55	0.86	36.45
		-26.35	-0.83	1.08e-05	0.0	169.0	6.16	-41.99	-1.00	-6.55	-0.83	-26.35
30	43	73.82	0.92	5.65e-04	-9.72	0.0	2.76	-78.67	-1.04	-13.45	0.92	73.82
		-67.31	-0.84	4.56e-06	0.0	169.0	2.76	-88.39	-1.04	-13.45	-0.84	-67.31
30	44	88.10	0.42	6.23e-04	-9.72	0.0	4.14	-93.76	-0.41	-7.19	0.42	88.10
		-78.67	-0.27	7.71e-06	0.0	169.0	4.14	-103.47	-0.41	-7.19	-0.27	-78.67
30	45	22.04	1.39	1.10e-03	-9.72	0.0	4.82	-16.95	-1.67	-12.95	1.39	22.04
		-14.70	-1.44	5.20e-06	0.0	169.0	4.82	-26.66	-1.67	-12.95	-1.44	-14.70
30	46	36.32	0.89	1.16e-03	-9.72	0.0	6.21	-32.03	-1.04	-6.69	0.89	36.32
		-26.06	-0.87	7.43e-06	0.0	169.0	6.21	-41.75	-1.04	-6.69	-0.87	-26.06
30	47	71.61	1.01	5.35e-04	-9.72	0.0	2.27	-75.96	-1.21	-12.56	1.01	71.61
		-80.65	-1.04	-1.44e-06	0.0	169.0	2.27	-85.68	-1.21	-12.56	-1.04	-80.65
30	48	90.07	0.39	6.77e-04	-9.72	0.0	4.71	-95.98	-0.33	-8.38	0.39	90.07
		-64.73	-0.16	5.39e-06	0.0	169.0	4.71	-105.70	-0.33	-8.38	-0.16	-64.73
30	49	20.07	1.42	1.05e-03	-9.72	0.0	4.25	-14.72	-1.76	-11.76	1.42	20.07
		-28.64	-1.55	7.46e-06	0.0	169.0	4.25	-24.44	-1.76	-11.76	-1.55	-28.64
30	50	38.53	0.80	1.19e-03	-9.72	0.0	6.69	-34.75	-0.87	-7.59	0.80	38.53
		-12.72	-0.67	1.20e-05	0.0	169.0	6.69	-44.46	-0.87	-7.59	-0.67	-12.72
30	51	71.73	0.98	5.23e-04	-9.72	0.0	2.23	-76.21	-1.17	-12.41	0.98	71.73
		-80.95	-1.00	3.87e-06	0.0	169.0	2.23	-85.92	-1.17	-12.41	-1.00	-80.95
30	52	90.19	0.36	6.66e-04	-9.72	0.0	4.67	-96.23	-0.28	-8.24	0.36	90.19
		-65.03	-0.11	8.93e-06	0.0	169.0	4.67	-105.94	-0.28	-8.24	-0.11	-65.03
30	53	19.95	1.45	1.06e-03	-9.72	0.0	4.29	-14.48	-1.80	-11.91	1.45	19.95
		-28.34	-1.60	4.69e-06	0.0	169.0	4.29	-24.19	-1.80	-11.91	-1.60	-28.34
30	54	38.41	0.83	1.20e-03	-9.72	0.0	6.73	-34.50	-0.91	-7.74	0.83	38.41
		-12.42	-0.72	8.45e-06	0.0	169.0	6.73	-44.22	-0.91	-7.74	-0.72	-12.42
30	55	50.35	0.82	7.91e-04	-9.72	0.0	4.13	-50.27	-0.95	-9.24	0.82	50.35
		-42.81	-0.78	5.34e-06	0.0	169.0	4.13	-59.98	-0.95	-9.24	-0.78	-42.81
30	56	55.07	0.90	8.63e-04	-9.72	0.0	4.48	-55.35	-1.04	-10.07	0.90	55.07
		-46.68	-0.86	5.98e-06	0.0	169.0	4.48	-65.07	-1.04	-10.07	-0.86	-46.68

...omissis...

Trave	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T
	-1406.84	-20.87	-0.01	-917.50	-242.09	-893.00	-8.37	-29.85
	1810.30	21.41	9.27e-03	0.0	255.22	642.97	16.40	21.94

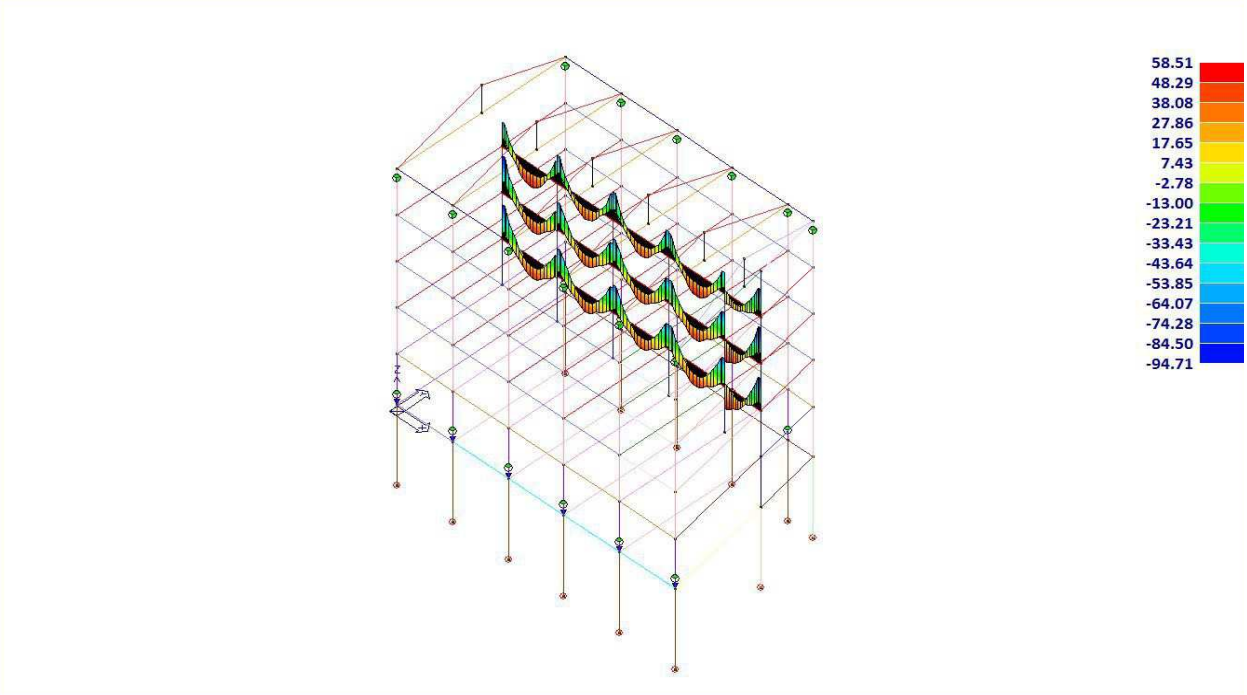


Figura 25 - Travi centrali di elevato: inviluppo di momento flettente M3 allo SLU

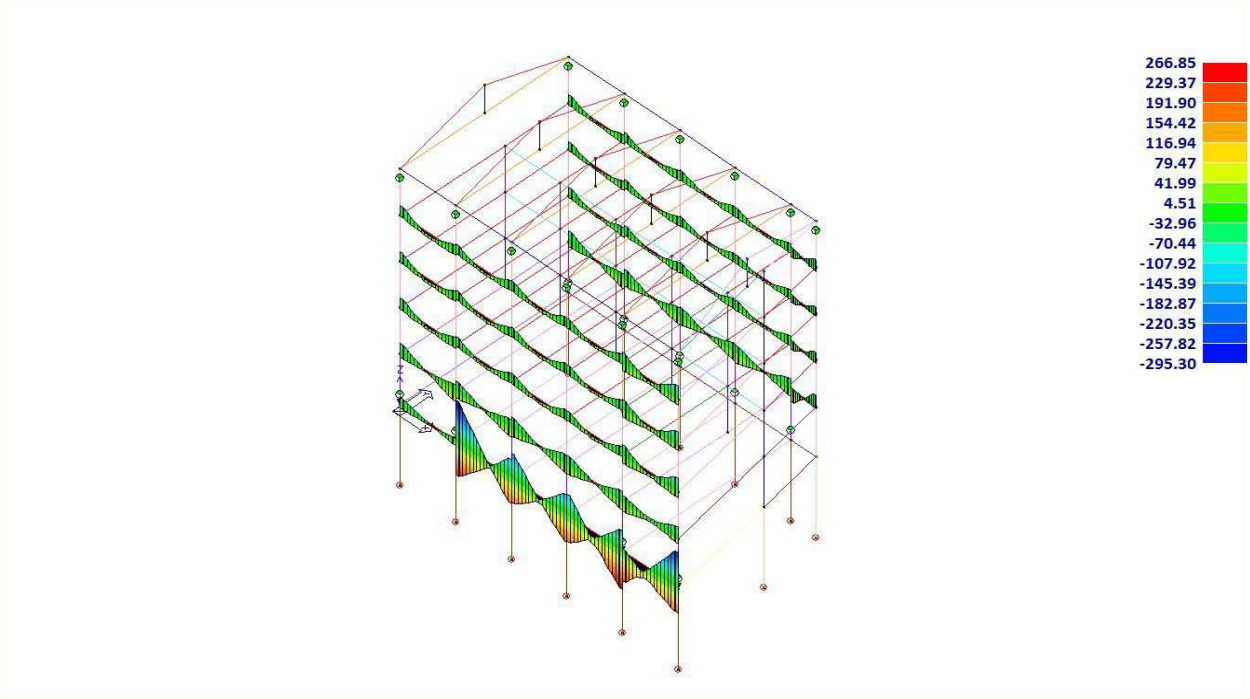


Figura 26 - Travi di bordo di elevato: inviluppo di momento flettente M3 allo SLU

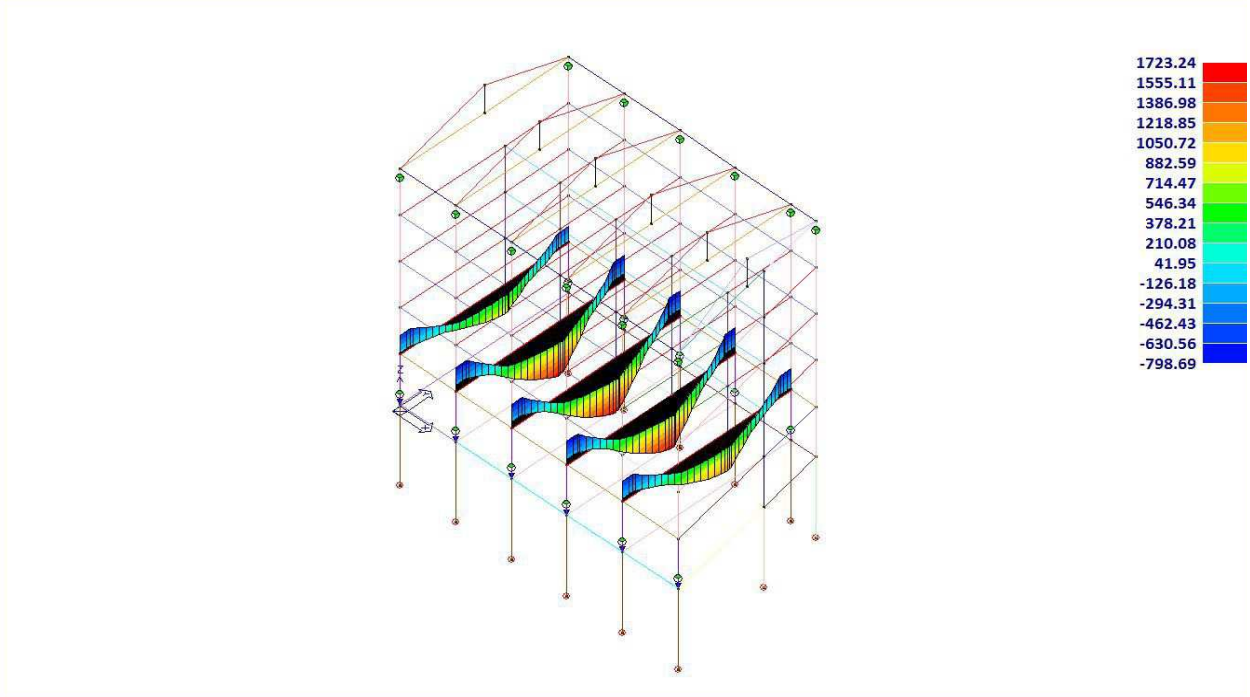


Figura 27 - Travi portali piano piloti: inviluppo di momento flettente M3 allo SLU

PARTE - IV VERIFICHE STRUTTURALI

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IV.1. GENERALITÀ

Il capitolo è dedicato all'esposizione dei risultati delle verifiche di sicurezza condotte sui manufatti rinforzati con il metodo CAM. Si riporta dapprima una breve descrizione del metodo, quindi i tabulati di verifica relativi a travi e pilastri trattati.

IV.2. LE CUCITURE ATTIVE: IL METODO CAM

IV.2.1. Generalità

La sigla CAM sta per *Cuciture Attive dei Manufatti* ed individua una tecnica di rinforzo mediante la quale è possibile ottenere i seguenti tipi di benefici:

- aumento di resistenza e duttilità a compressione centrata mediante l'effetto del confinamento attivo;
- aumento di duttilità a compressione del cls con aumento della rotazione ultima della sezione a presso-flessione o flessione semplice;
- aumento del taglio resistente grazie all'aggiunta di armatura a taglio;
- aumento di armatura a trazione e dunque del momento resistente nel caso in cui gli angolari vengano resi solidali alla sezione.

Esistono dunque diverse metodologie di rinforzo qui brevemente descritte.

a) CONFINAMENTO
   - incremento incremento in termini di capacità portante;
   - incremento in termini di deformabilità

b) PRESSOFLESSIONE
   - armature di continuità che conferiscono incremento di capacità portante a trazione ed aumento della duttilità ad opera delle legatura orizzontali;

c) TAGLIO
   - incremento dell'armatura a taglio esistente ad opera delle legature

d) NODO TRAVE-PILASTRO
   - incremento di resistenza e duttilità ad opera delle legature;

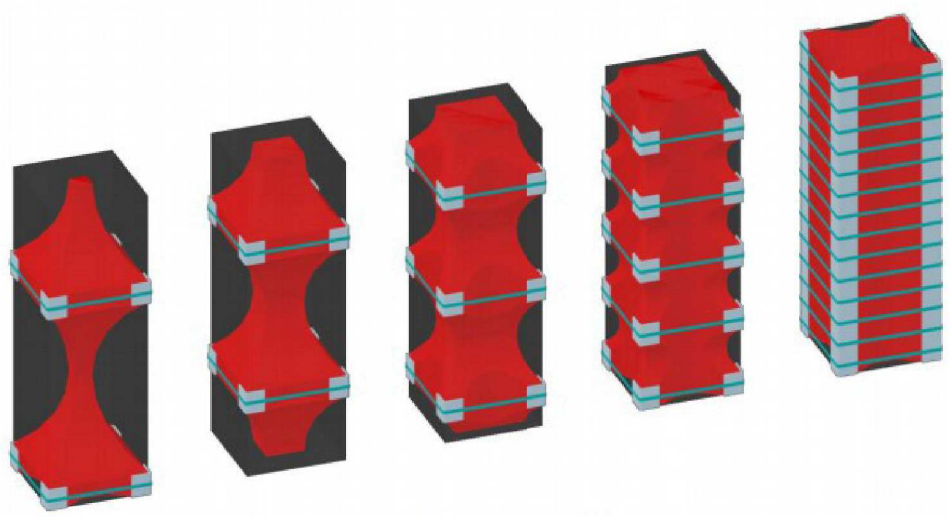
e) DIS-CAM
   - conseguimento della gerarchia delle resistenze trave-pilastro

In sostanza l'elemento oggetto di rinforzo è interessato da una cerchiatura ad opera di speciali

nastri in acciaio inox ad alta resistenza, singoli o sovrapposti posizionati in maglia chiusa e pre-tensionati, così da imporre uno stato di confinamento all'elemento stesso.

Ai quattro vertici della sezione dell'elemento vengono di norma posizionati quattro angolari in acciaio presso piegati con funzione di distribuzione delle azioni confinanti dei nastri.

Gli angolari hanno la superficie interna a contatto con il cls irruvidita da una apposita lavorazione e la superficie esterna liscia per consentire un pretensionamento uniforme dei nastri.



Schema statico elementare di riferimento

b_f = larghezza singolo nastro
t_{fs} = spessore singolo nastro
n_{str} = numero nastri sovrapposti
$t_{ft} = t_{fs} \times n_{str}$ = spessore totale nastri
p_f = passo verticale dei nastri
L_{ang} = larghezza ala angolari
t_{ang} = spessore ala angolari

Figura 28 - Rinforzo mediante CAM

IV.2.2. Metodi di dimensionamento

Per quanto attiene la teoria alla base dei metodi di dimensionamento e verifica degli interventi di rinforzo, si rimanda direttamente alla documentazione riportata in allegato.

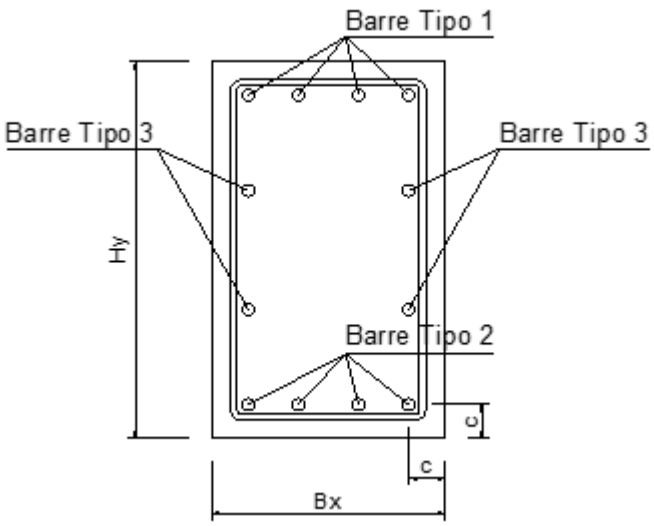
IV.2.3. Legende e simboli

A seguire le legende e simboli utili alla lettura dei fogli elettronici utilizzati per la verifica degli elementi strutturali.

LEGENDA SIMBOLI

PROPRIETA' GEOMETRICHE SEZIONE IN CA

Bx	*larghezza sezione*
Hy	*altezza sezione*
c	*copriferro*
n_1	*numero barre lembo superiore*
ϕ_1	*diametro barre lembo superiore*
n_2	*numero barre lembo inferiore*
ϕ_2	*diametro barre lembo inferiore*
n_3	*numero barre parete*
ϕ_3	*diametro barre parete*
Af_1	*Area armatura superiore*
Af_2	*Area armatura inferiore*
Af_3	*Area armatura parete*



RINFORZO CONFINAMENTO CAM

L_{an}	*larghezza ala angolare CAM*
s_{ang}	*spessore angolare*
n_{str}	*numero di nastri sovrapposti*
t_{fs}	*spessore singolo nastro*
b_f	*larghezza singolo nastro*
s	*passo dei nastri*
n_{maglie}	*numero di maglie della staffatura CAM (numero di braccia)*
Flex	***Metodo di solidarizzazione angolari CAM***
	D *Collegamento angolari mediante DISCAM (nodo)*
	2B20 *Collegamento angolari mediante 2 barre Φ14 per angolare (nodo)*
	4B20 *Collegamento angolari mediante 2 barre Φ16 per angolare (nodo)*
	4B24 *Collegamento angolari mediante 2 barre Φ20 per angolare (nodo)*
	P *Collegamento angolari mediante Perni/pioli inghisati (campata)*
	N *Nessun Collegamento angolari*

PRESSO FLESSIONE DEVIATA

N_{Ed}	*Sforzo Normale agente*
$M_{Ed,x}$	*Momento massimo agente intorno a x*
$M_{Ed,y}$	*Momento massimo agente intorno a y*
N_{Rd}	*Sforzo Normale Resistente*
$M_{Rd,x}$	*Momento Resistente intorno a x*
$M_{Rd,y}$	*Momento Resistente intorno a y*
S	*Coefficiente di sicurezza*
CM,flex	*Coefficiente di miglioramento*

NB. Se M_{Ed} viene posto nullo i valori di M-N resistenti sono: N_{Rd} calcolato a compressione centrata, M_{Rd} calcolato con applicato N_{Ed}

TAGLIO - TORSIONE

p_{staffe}	*passo delle staffe*
ϕ_{staffe}	*diametro delle staffe*
V_{ed}	*Taglio massimo agente*
V_{Rd}	*Taglio resistente*
T_{ed}	*Torsione agente*
T_{Rd}	*Torsione resistente*
S	*Coefficiente di sicurezza a Taglio-Torsione*
CM,VT	*Coefficiente di miglioramento*

IV.2.4. Verifiche pilastri in c.a.

Si riportano le tabelle di verifica degli elementi pilastro per ciascun livello. Per identificazione pilastri si rimanda alle tavole di progetto (Elaborati EST01, EST02).

Riga 58 / 58	PROPRIETA' GEOMETRICHE SEZIONE IN CA													RINFORZO CONFINAMENTO CAM							PRESSO FLESSIONE DEVIATA							TAGLIO Vx e Vy - TORSIONE (Accoppiata con Vy)									
DESCRIZIONE	B_x	H_y	c	n_1	ϕ_1	n_2	ϕ_2	n_3	ϕ_3	Af_1	Af_2	Af_3	Elemento *Trave* o *Pilastro*	L_{ang}	s_{ang}	n_{str}	passo	n_{fori}	Foro Staffatura (solo travi)	Flex	N_{Ed}	$M_{Ed,x}$	$M_{Ed,y}$	N_{Rd}	$M_{Rd,x}$	$M_{Rd,y}$	S	p_{staffe}	ϕ_{staffe}	$N_{Ed,y}$	$V_{Ed,y}$	$V_{Rd,y}$	$V_{Ed,x}$	$V_{Rd,x}$	T_{Ed}	T_{Rd}	S
	mm	mm	mm		mm		mm		mm	mm^2	mm^2	mm^2		mm	mm		mm			(nBϕ)	KN	KNm	KNm	KN	KNm	KNm		mm	mm	KN	KN	KN	KN	KN	KNm	KNm	1.49
0_P1_B_cmb-04_N	400	700	36	3	20	3	20	1	20	942	942	314	Pilastro								2222.21	-77.8	-131.8	2222.21	-88.7	-150.3	1.140	200	8	2222	1.0	404.3	1.0	399.6		0.0	399.63
0_P1_C_cmb-04_N	400	700	36	3	20	3	20	1	20	942	942	314	Pilastro								2196.01	121.9	130.3	2196.01	130.0	138.9	1.066	200	8	2196	1.0	400.5	1.0	396.1		0.0	396.06
0_P1_S_cmb-04_N	400	700	36	3	20	3	20	1	20	942	942	314	Pilastro	60	6	1	100	0		1B10	2169.80	224.6	128.7	2169.8	229.9	131.8	1.023	200	8	2170	1.0	396.8	1.0	392.5		0.0	392.48
0_P1_B_cmb-49_V	400	700	36	3	20	3	20	1	20	942	942	314	Pilastro											3484.7	0.0	0.0	-V-	200	8	1430	191.4	291.6	15.6	291.6		0.0	1.52
0_P1_C_cmb-49_V	400	700	36	3	20	3	20	1	20	942	942	314	Pilastro											3484.7	0.0	0.0	-V-	200	8	1410	191.4	288.7	15.6	288.8		0.0	1.51
0_P1_S_cmb-49_V	400	700	36	3	20	3	20	1	20	942	942	314	Pilastro											3484.7	0.0	0.0	-V-	200	8	1390	191.4	285.9	15.6	286.1		0.0	1.49
0_P1_B_cmb-51_V	400	700	36	3	20	3	20	1	20	942.477	942	314	Pilastro											3484.7	0.0	0.0	-V-	200	8	1426	191.4	290.9	9.7	290.9		0.0	1.52
0_P1_C_cmb-51_V	400	700	36	3	20	3	20	1	20	942.477	942	314	Pilastro											3484.7	0.0	0.0	-V-	200	8	1405	191.4	288.0	9.7	288.1		0.0	1.50
0_P1_S_cmb-51_V	400	700	36	3	20	3	20	1	20	942.477	942	314	Pilastro											3484.7	0.0	0.0	-V-	200	8	1385	191.4	285.2	9.7	285.4		0.0	1.49
0_P2_B_cmb-04_N	400	700	36	2	20	2	20	1	20	628.318	628	314	Pilastro								2129.71	74.5	121.3	2129.7	86.9	141.5	1.166	200	8	2130	1.0	380.0	1.0	374.8		0.0	374.83
0_P2_C_cmb-04_N	400	700	36	2	20	2	20	1	20	628.318	628	314	Pilastro								2103.50	-125.2	119.8	2103.5	-130.5	124.9	1.042	200	8	2104	1.0	376.2	1.0	371.3		0.0	371.26
0_P2_S_cmb-33_N	400	700	36	2	20	2	20	1	20	628	628	314	Pilastro	60	6	1	100	0		1B10	1284.21	-136.0	231.0	1284.2	-136.6	232.0	1.004	200	8	1284	1.0	423.9	1.0	259.4		0.0	259.42
0_P2_B_cmb-28_V	400	700	36	2	20	2	20	1	20	628	628	314	Pilastro											3248.2	0.0	0.0	-V-	200	8	1355	26.6	280.8	104.4	269.1		0.0	2.58
0_P2_C_cmb-28_V	400	700	36	2	20	2	20	1	20	628	628	314	Pilastro											3248.2	0.0	0.0	-V-	200	8	1335	26.6	280.8	104.4	266.4		0.0	2.55
0_P2_S_cmb-28_V	400	700	36	2	20	2	20	1	20	628	628	314	Pilastro											3248.2	0.0	0.0	-V-	200	8	1315	26.6	280.8	104.4	263.6		0.0	2.53
0_P2_B_cmb-54_V	400	700	36	2	20	2	20	1	20	628	628	314	Pilastro											3248.2	0.0	0.0	-V-	200	8	1420	159.8	280.8	20.1	277.9		0.0	1.76
0_P2_C_cmb-54_V	400	700	36	2	20	2	20	1	20	628	628	314	Pilastro											3248.2	0.0	0.0	-V-	200	8	1400	159.8	280.8	20.1	275.2		0.0	1.76
0_P2_S_cmb-54_V	400	700	36	2	20	2	20	1	20	628	628	314	Pilastro											3248.2	0.0	0.0	-V-	200	8	1379	159.8	280.8	20.1	272.4		0.0	1.76
0_P3_B_cmb-33_N	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro								459.97	16.1	-57.3	460.0	47.6	-169.3	2.957	200	8	796	1.0	280.8	1.0	192.7		0.0	192.74
0_P3_C_cmb-04_N	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro								994.24	-44.8	-56.6	994.2	-137.3	-173.7	3.066	200	8	994	1.0	280.8	1.0	219.8		0.0	219.84
0_P3_S_cmb-35_N	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro								795.71	-54.6	-154.1	795.7	-66.6	-187.9	1.219	200	8	796	1.0	280.8	1.0	192.7		0.0	192.74
0_P3_B_cmb-27_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	838	19.5	280.8	99.5	198.5		0.0	2.00
0_P3_C_cmb-27_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	817	19.5	280.8	99.5	195.7		0.0	1.97
0_P3_S_cmb-27_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	797	19.5	280.8	99.5	192.9		0.0	1.94
0_P3_B_cmb-54_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	689	156.5	280.8	12.4	178.1		0.0	1.79
0_P3_C_cmb-54_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	669	156.5	280.8	12.4	175.4		0.0	1.79
0_P3_S_cmb-54_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	648	156.5	280.8	12.4	172.6		0.0	1.79
0_P4_B_cmb-04_N	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro								1614.52	-56.5	-92.0	1614.5	-108.6	-176.7	1.921	200	8	1615	1.0	306.7	1.0	304.5		0.0	304.51
0_P4_C_cmb-04_N	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro								1588.31	75.9	90.5	1588.3	139.8	166.7	1.842	200	8	1588	1.0	302.9	1.0	300.9		0.0	300.93
0_P4_S_cmb-04_N	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro								1562.11	141.2	89.0	1562.1	210.5	132.6	1.491	200	8	1562	1.0	299.2	1.0	297.4		0.0	297.36
0_P4_B_cmb-35_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	883	18.1	280.8	100.0	204.7		0.0	2.05
0_P4_C_cmb-35_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	863	18.1	280.8	100.0	201.9		0.0	2.02
0_P4_S_cmb-35_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	843	18.1	280.8	100.0	199.1		0.0	1.99
0_P4_B_cmb-49_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	1119	157.3	280.8	15.3	236.9		0.0	1.79
0_P4_C_cmb-49_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	1099	157.3	280.8	15.3	234.1		0.0	1.79
0_P4_S_cmb-49_V	400	700	36	2	20	2	20	1	18	628	628	254	Pilastro											3203.2	0.0	0.0	-V-	200	8	1079	157.3	280.8	15.3	231.4		0.0	1.79
0_P5_B_cmb-31_N	350	500	36	2	18	2	18			509	509	0	Pilastro								713.60	35.9	74.5	713.6	50.4	104.7	1.406	200	8	714	1.0	196.2	1.0	154.7		0.0	154.67
0_P5_C_cmb-04_N	350	500	36	2	18	2	18			509	509	0	Pilastro								842.96	21.1	-52.9	843.0	42.2	-106.0	2.003	200	8	843	1.0	196.2	1.0	172.1		0.0	172.08
0_P5_S_cmb-23_N	350	500	36	2	18	2	18			509	509	0	Pilastro								685.30	-17.1	-97.8	685.3	-19.8	-113.0	1.155	200	8	685	1.0	196.2	1.0	150.9		0.0	150.86
0_P5_B_cmb-28_V	350	500	36	2	18	2	18			509	509	0	Pilastro											1969.8	0.0	0.0	-V-	200	8	670	7.2	196.2	48.5	148.8		0.0	3.07
0_P5_C_cmb-28_V	350	500	36	2	18	2	18			509	509	0	Pilastro											1969.8	0.0	0.0	-V-	200	8	657	7.2	196.2	48.5	147.1		0.0	3.03
0_P5_S_cmb-28_V	350	500	36	2	18	2	18			509	509	0	Pilastro											1969.8	0.0	0.0	-V-	200	8	644	7.2	196.2	48.5	145.4		0.0	3.00
0_P5_B_cmb-48_V	350	500	36	2	18	2	18			509	509	0	Pilastro											1969.8	0.0	0.0	-V-	200	8	512	71.7	196.2	8.8	132.8		0.0	2.74
0_P5_C_cmb-48_V	350	500	36	2	18	2	18			509	509	0	Pilastro											1969.8	0.0	0.0	-V-	200	8	500	71.7	196.2	8.8	132.8		0.0	2.74
0_P5_S_cmb-48_V	350	500	36	2	18	2	18			509	509	0	Pilastro											1969.8	0.0	0.0	-V-	200	8	487	71.7	196.2	8.8	132.8		0.0	2.74
0_P6_B_cmb-04_N	300	500	36	2	18	2	18	1	18	509	509	254	Pilastro								957.65	-54.1	67.5	957.7	-61.9	77.3	1.145	200	8	958	1.0	183.2	1.0	180.7		0.0	180.75
0_P6_C_cmb-04_N	300	500	36	2	18	2	18	1	18	509	509	254	Pilastro								943.61	53.3	-66.5	943.6	62.5	-78.0	1.173	200	8	944	1.0	181.2	1.0	178.9		0.0	178.89
0_P6_S_cmb-04_N	300	500	36	2	18	2	18	1	18	509	509	254	Pilastro								929.57	52.5	-65.5	929.6	63.1	-78.7	1.202	200	8	930	1.0	179.3	1.0	177.0		0.0	177.04
0_P6_B_cmb-35_V	300	500	36	2	18	2	18	1	18	509	509	254	Pilastro											1934.7	0.0	0.0	-V-	200	8	679	1.9	196.2	46.7	144.0		0.0	3.08
0_P6_C_cmb-35_V	300	500	36	2	18	2	18	1	18	509	509	254	Pilastro											1934.7	0.0	0.0	-V-	200	8	668	1.9	196.2	46.7	142.5		0.0	3.05
0_P6_S_cmb-35_V	300	500	36	2	18	2	18	1	18	509	509	254	Pilastro											1934.7	0.0	0.0	-V-	200	8	657	1.9	196.2	46.7	141.1		0.0	3.02
0_P6_B_cmb-48_V	300	500	36	2	18	2	18	1	18	509	509	254	Pilastro											1934.7	0.0	0.0	-V-	200	8	585	66.8	196.2	4.2	131.5		0.0	2.94
0_P6_C_cmb-48_V	300	500	36	2	18	2	18	1	18	509	509	254	Pilastro											1934.7	0.0	0.0	-V-	200	8	574	66.8	196.2	4.2	130.1		0.0	2.94
0_P6_S_cmb-48_V	300	500	36	2	18	2	18	1	18	509	509	254	Pilastro											1934.7	0.0	0.0	-V-	200	8	563	66.8	196.2	4.2	128.6		0.0	2.94

Figura 29 - Verifica pilastri piano interrato

Riga 58 / 58	PROPRIETA' GEOMETRICHE SEZIONI IN CA													RINFORZO CONFINAMENTO CAM							PRESSO FLESSIONE DEVIATA							TAGLIO Vx e Vy - TORSIONE (Accoppiata con Vy)									
DESCRIZIONE	B_x	H_y	c	n_1	ϕ_1	n_2	ϕ_2	n_3	ϕ_3	Af_1	Af_2	Af_3	Elemento *Trave o Pilastro*	L_{ang}	s_{ang}	n_{str}	passo	n_{fori}	Foro Staffatura (solo travi)	Flex	N_{Ed}	$M_{Ed,x}$	$M_{Ed,y}$	N_{Rd}	$M_{Rd,x}$	$M_{Rd,y}$	S	p_{staffe}	ϕ_{staffe}	$N_{Ed,y}$	$V_{Ed,y}$	$V_{Rd,y}$	$V_{Ed,x}$	$V_{Rd,x}$	T_{Ed}	T_{Rd}	S
	mm	mm	mm		mm		mm		mm	mm^2	mm^2	mm^2		mm	mm		mm			($nB\phi$)	KN	KNm	KNm	KN	KNm	KNm		mm	mm	KN	KN	KN	KN	KN	KNm	KNm	1.00
1_P1_B_cmb-38_N	350	600								0	0	0	Pilastro								1008.37	35.3	-73.7	1008.37	39.9	-83.2	1.129	200	8	1008	1.0	253.7		219.7		0.0	253.73
1_P1_C_cmb-04_N	350	700	38	3	20	4	20	1	12	1257	942	113	Pilastro								1672.73	371.9	-33.5	1672.73	504.0	-45.3	1.355	200	8	1673	1.0	325.8		322.6		0.0	325.83
1_P1_S_cmb-04_N	350	1000	38	3	20	6	20	1	12	1885	942	113	Pilastro								1658.40	640.2	33.2	1658.4	941.4	48.8	1.470	200	8	1658	1.0	406.8		365.4		0.0	406.82
1_P1_B_cmb-51_V	400	550	38	3	20	3	20	1	12	942	942	113	Pilastro	60	6	5	150	1						4477.8	0.0	0.0	-V-	200	8	1093	364.8	407.6	22.5	418.1		0.0	1.12
1_P1_C_cmb-51_V	350	700	38	3	20	4	20	1	12	942	1257	113	Pilastro											4244.9	0.0	0.0	-V-	100	8	1082	364.8	463.1	22.5	263.9		0.0	1.27
1_P1_S_cmb-51_V	350	1000	38	3	20	6	20	1	12	942	1885	113	Pilastro											5909.4	0.0	0.0	-V-	100	8	1070	364.8	673.0	22.5	263.9		0.0	1.85
1_P1_B_cmb-54_V	350	600	38	3	20	3	20	1	12	942.477	942	113	Pilastro	60	6	5	150	1						4359.0	0.0	0.0	-V-	200	8	953	364.8	437.5	30.3	409.3		0.0	1.20
1_P1_C_cmb-54_V	350	700	38	3	20	4	20	1	12	942.477	1257	113	Pilastro											4244.9	0.0	0.0	-V-	100	8	942	364.8	463.1	30.3	263.9		0.0	1.27
1_P1_S_cmb-54_V	350	1000	38	3	20	6	20	1	12	942.477	1885	113	Pilastro											5909.4	0.0	0.0	-V-	100	8	931	364.8	673.0	30.3	263.9		0.0	1.85
1_P2_B_cmb-29_N	350	600								0	0	0	Pilastro	60	6	5	150	1		1b16	1001.22	-35.0	-140.0	1001.2	-36.1	-144.3	1.031	200	8	1001	1.0	450.7		443.4		0.0	450.71
1_P2_C_cmb-04_N	350	700	38	4	20	3	20	1	12	942.477	1257	113	Pilastro								1565.14	-296.6	-31.3	1565.1	-498.9	-52.7	1.682	200	8	1565	1.0	302.5		299.1		0.0	302.47
1_P2_S_cmb-04_N	350	1000	38	6	20	3	20	1	12	942	1885	113	Pilastro								1550.80	-528.2	31.0	1550.8	-908.4	53.4	1.720	200	8	1551	1.0	406.8		321.3		0.0	406.82
1_P2_B_cmb-35_V	350	500	38	3	20	3	20	1	12	942	942	113	Pilastro											3174.6	0.0	0.0	-V-	200	8	941	124.4	198.1	178.8	197.6		0.0	1.11
1_P2_C_cmb-35_V	350	700	38	4	20	3	20	1	12	1257	942	113	Pilastro											4244.9	0.0	0.0	-V-	100	8	930	124.4	463.1	178.8	263.9		0.0	1.48
1_P2_S_cmb-35_V	350	1000	38	6	20	3	20	1	12	1885	942	113	Pilastro											5909.4	0.0	0.0	-V-	100	8	919	124.4	673.0	178.8	266.5		0.0	1.49
1_P2_B_cmb-49_V	350	500	38	3	20	3	20	1	12	942	942	113	Pilastro	60	6	5	150	1						3780.3	0.0	0.0	-V-	200	8	930	314.0	315.5	46.8	314.7		0.0	1.00
1_P2_C_cmb-49_V	350	700	38	4	20	3	20	1	12	1257	942	113	Pilastro											4244.9	0.0	0.0	-V-	100	8	919	314.0	463.1	46.8	263.9		0.0	1.47
1_P2_S_cmb-49_V	350	1000	38	6	20	3	20	1	12	1885	942	113	Pilastro											5909.4	0.0	0.0	-V-	100	8	908	314.0	673.0	46.8	265.0		0.0	2.14
1_P3_B_cmb-35_N	350	500								0	0	0	Pilastro	60	6	1	150				612.04	-21.4	-59.3	612.0	-20.8	-57.7	0.973	200	8	612	1.0	283.3		198.3		0.0	283.26
1_P3_C_cmb-54_N	350	700	38	4	18	3	18	1	12	763	1018	113	Pilastro								840.83	-205.8	30.9	840.8	-350.2	52.6	1.702	200	8	841	1.0	280.0		196.2		0.0	279.95
1_P3_S_cmb-54_N	350	1000	38	6	18	3	18	1	12	1527	763	113	Pilastro								829.80	-377.8	30.5	829.8	-637.7	51.5	1.688	200	8	830	1.0	406.8		244.8		0.0	406.82
1_P3_B_cmb-35_V	350	500	38	3	18	3	18	1	12	763	763	113	Pilastro	60	6	1	150							3154.9	0.0	0.0	-V-	200	8	612	42.1	261.7	160.4	176.8		0.0	1.10
1_P3_C_cmb-35_V	350	700	38	4	18	3	18	1	12	1018	763	113	Pilastro											4087.6	0.0	0.0	-V-	100	8	601	42.1	463.1	160.4	263.9		0.0	1.65
1_P3_S_cmb-35_V	350	1000	38	6	18	3	18	1	12	1527	763	113	Pilastro											5707.2	0.0	0.0	-V-	100	8	590	42.1	651.4	160.4	263.9		0.0	1.65
1_P3_B_cmb-51_V	350	500	38	3	18	3	18	1	12	763	763	113	Pilastro	60	6	1	100							3223.8	0.0	0.0	-V-	200	8	637	282.9	288.7	19.5	199.2		0.0	1.02
1_P3_C_cmb-51_V	350	700	38	4	18	3	18	1	12	1018	763	113	Pilastro											4087.6	0.0	0.0	-V-	100	8	626	282.9	463.1	19.5	263.9		0.0	1.64
1_P3_S_cmb-51_V	350	1000	38	6	18	3	18	1	12	1527	763	113	Pilastro											5707.2	0.0	0.0	-V-	100	8	615	282.9	654.1	19.5	263.9		0.0	2.31
1_P4_B_cmb-54_N	350	500	38	3	18	3	18	1	12	763	763	113	Pilastro								715.78	25.1	-41.4	715.8	74.7	-123.5	2.981	200	8	716	1.0	195.4		162.6		0.0	195.37
1_P4_C_cmb-04_N	350	700	38	3	18	4	18	1	12	1018	763	113	Pilastro								1230.69	214.5	-24.6	1230.7	410.8	-47.1	1.915	200	8	1231	1.0	280.0		256.8		0.0	279.95
1_P4_S_cmb-04_N	350	1000	38	3	18	6	18	1	12	1527	763	113	Pilastro								1216.36	393.9	24.3	1216.4	741.2	45.8	1.882	200	8	1216	1.0	406.8		296.5		0.0	406.82
1_P4_B_cmb-48_V	350	500	38	3	18	3	18	1	12	763	763	113	Pilastro	60	6	5	150	1						3645.5	0.0	0.0	-V-	200	8	664	344.9	359.8	17.7	361.6		0.0	1.04
1_P4_C_cmb-48_V	350	700	38	3	18	4	18	1	12	763	1018	113	Pilastro											4087.6	0.0	0.0	-V-	100	8	653	344.9	463.1	17.7	263.9		0.0	1.34
1_P4_S_cmb-48_V	350	1000	38	3	18	6	18	1	12	763	1527	113	Pilastro											5707.2	0.0	0.0	-V-	100	8	642	344.9	656.9	17.7	263.9		0.0	1.90
1_P4_B_cmb-54_V	350	500	38	3	18	3	18	1	12	763	763	113	Pilastro	60	6	5	150	1						3645.5	0.0	0.0	-V-	200	8	716	344.9	359.8	21.9	361.6		0.0	1.04
1_P4_C_cmb-54_V	350	700	38	3	18	4	18	1	12	763	1018	113	Pilastro											4087.6	0.0	0.0	-V-	100	8	705	344.9	463.1	21.9	263.9		0.0	1.34
1_P4_S_cmb-54_V	350	1000	38	3	18	6	18	1	12	763	1527	113	Pilastro											5707.2	0.0	0.0	-V-	100	8	694	344.9	662.5	21.9	263.9		0.0	1.92
1_P5_B_cmb-28_N	350	450	35	2	16	2	16			402	402	0	Pilastro								482.89	16.9	52.3	482.9	29.9	92.4	1.768	200	6	483	1.0	115.3		115.8		0.0	115.30
1_P5_C_cmb-04_N	350	450	35	2	16	2	16			402	402	0	Pilastro								671.67	-15.1	13.4	671.7	-84.7	75.3	5.607	200	6	672	1.0	141.4		141.3		0.0	141.41
1_P5_S_cmb-28_N	350	450	35	2	16	2	16			402	402	0	Pilastro								468.71	16.4	-43.1	468.7	34.2	-89.6	2.080	200	6	469	1.0	113.3		113.9		0.0	113.34
1_P5_B_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro											2444.7	0.0	0.0	-V-	200	6	376	92.0	100.5	24.2	101.4		0.0	1.09
1_P5_C_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro											2444.7	0.0	0.0	-V-	200	6	369	92.0	99.5	24.2	100.4		0.0	1.08
1_P5_S_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro											2444.7	0.0	0.0	-V-	200	6	362	92.0	98.7	24.2	99.4		0.0	1.07
1_P5_B_cmb-51_V	350	450	35	2	16	2	16			402	402	0	Pilastro											2444.7	0.0	0.0	-V-	200	6	509	92.0	118.9	14.7	119.4		0.0	1.29
1_P5_C_cmb-51_V	350	450	35	2	16	2	16			402	402	0	Pilastro											2444.7	0.0	0.0	-V-	200	6	502	92.0	118.0	14.7	118.4		0.0	1.28
1_P5_S_cmb-51_V	350	450	35	2	16	2	16			402	402	0	Pilastro											2444.7	0.0	0.0	-V-	200	6	495	92.0	117.0	14.7	117.4		0.0	1.27
1_P6_B_cmb-18_N	250	500	35	2	16	2	16	1	16	402	402	201	Pilastro								731.20	-55.3	32.3	731.2	-97.0	56.7	1.755	200	6	731	1.0	142.9		140.3		0.0	142.86
1_P6_C_cmb-04_N	250	500	35	2	16	2	16	1	16	402	402	201	Pilastro								764.49	-19.1	33.8	764.5	-45.8	80.9	2.395	200	6	764	1.0	147.5		144.6		0.0	147.51
1_P6_S_cmb-04_N	250	500	35	2	16	2	16	1	16	402	402	201	Pilastro								757.18	34.3	33.5	757.2	72.1	70.4	2.102	200	6	757	1.0	146.5		143.7		0.0	146.49
1_P6_B_cmb-35_V	250	500	35	2	16	2	16	1	16	402	402	201	Pilastro											2154.1	0.0	0.0	-V-	200	6	552	4.3	117.9	54.4	117.3		0.0	2.16
1_P6_C_cmb-35_V	250	500	35	2	16	2	16	1	16	402	402	201	Pilastro											2154.1	0.0	0.0	-V-	200	6	547	4.3	117.1	54.4	116.5		0.0	2.14
1_P6_S_cmb-35_V	250	500	35	2	16	2	16	1	16	402	402	201	Pilastro											2154.1	0.0	0.0	-V-	200	6	541	4.3	116.4	54.4	115.8		0.0	2.13
1_P6_B_cmb-51_V	250	500	35	2	16	2	16	1	16	402	402	201	Pilastro											2154.1	0.0	0.0	-V-	200	6	526	96.5	114.3	2.8	113.9		0.0	1.18
1_P6_C_cmb-51_V	250	500	35	2	16	2	16	1	16	402	402	201	Pilastro											2154.1	0.0	0.0	-V-	200	6	521	96.5	113.5	2.8	113.2		0.0	1.18
1_P6_S_cmb-51_V	250	500	35	2	16	2	16	1	16	402	402	201	Pilastro											2154.1	0.0	0.0	-V-	200	6	515	96.5	112.7	2.8	112.4		0.0	1.17

Figura 30 - Verifica pilastri piano pilotis

Riga 67 / 67	PROPRIETA' GEOMETRICHE SEZ. CA												RINFORZO CONFINAMENTO CAM							PRESSO FLESSIONE DEVIATA							TAGLIO Vx e Vy - TORSIONE (Accoppiata con Vy)									
DESCRIZIONE	B_x	H_y	c	n_1	ϕ_1	n_2	ϕ_2	n_3	ϕ_3	Af_1	Af_2	Af_3	Elemento *Trave o Pilastro*	L_{ang}	s_{ang}	n_{str}	passo	n_{fori}	Foro Staffatura (solo travi)	Flex	N_{Ed}	$M_{Ed,x}$	$M_{Ed,y}$	N_{Rd}	$M_{Rd,x}$	$M_{Rd,y}$	S	p_{staffe}	ϕ_{staffe}	$N_{Ed,y}$	$V_{Ed,y}$	$V_{Rd,y}$	$V_{Ed,x}$	$V_{Rd,x}$	T_{Ed}	T_{Rd}	S
	mm	mm	mm		mm		mm		mm	mm^2	mm^2	mm^2		mm	mm		mm			(nBϕ)	KN	KNm	KNm	KN	KNm	KNm		mm	mm	KN	KN	KN	KN	KN	KNm	KNm	1.10
2_P1_B_cmb-18_N	350	450	35	2	18	2	18			509	509	0	Pilastro								724.78	-151.5	-14.5	724.78	-159.9	-15.3	1.055	200	6	725	1.0	152.7	1.0	152.6		0.0	152.58
2_P1_C_cmb-18_N	350	450	35	2	18	2	18			509	509	0	Pilastro								716.33	-59.8	-14.3	716.33	-147.2	-35.3	2.461	200	6	716	1.0	151.6	1.0	151.4		0.0	151.44
2_P1_S_cmb-33_N	350	450	35	2	18	2	18			509	509	0	Pilastro								478.24	34.9	42.7	478.2	69.4	84.9	1.988	200	6	478	1.0	118.6	1.0	119.3		0.0	118.62
2_P1_B_cmb-48_V	350	450	35	2	18	2	18			509	509	0	Pilastro	60	6	1	150							2636.8	0.0	0.0	-V-	200	6	415	114.3	122.8	2.9	120.2	3.9	8.4	1.69
2_P1_C_cmb-48_V	350	450	35	2	18	2	18			509	509	0	Pilastro	60	6	1	150							2636.8	0.0	0.0	-V-	200	6	409	114.3	122.8	2.9	120.2	3.9	8.4	1.69
2_P1_S_cmb-48_V	350	450	35	2	18	2	18			509	509	0	Pilastro	60	6	1	150							2636.8	0.0	0.0	-V-	200	6	402	114.3	122.8	2.9	120.2	3.9	8.4	1.69
2_P1_B_cmb-54_V	350	450	35	2	18	2	18			508.93758	509	0	Pilastro	60	6	1	150							2636.8	0.0	0.0	-V-	200	6	420	114.3	123.8	17.5	120.2	3.8	8.2	1.71
2_P1_C_cmb-54_V	350	450	35	2	18	2	18			508.93758	509	0	Pilastro	60	6	1	150							2636.8	0.0	0.0	-V-	200	6	413	114.3	123.8	17.5	120.2	3.8	8.2	1.71
2_P1_S_cmb-54_V	350	450	35	2	18	2	18			508.93758	509	0	Pilastro	60	6	1	150							2636.8	0.0	0.0	-V-	200	6	407	114.3	123.8	17.5	120.2	3.8	8.2	1.71
2_P2_B_cmb-48_N	350	450	35	2	18	2	18	1	18	508.93758	509	254	Pilastro	60	6	2	250			1b12	546.56	158.0	21.3	546.6	186.7	25.1	1.182	200	6	547	1.0	170.3	1.0	129.2		0.0	129.23
2_P2_C_cmb-48_N	350	450	35	2	18	2	18	1	18	508.93758	509	254	Pilastro								540.06	81.5	13.5	540.1	146.2	24.2	1.792	200	6	540	1.0	127.2	1.0	127.6		0.0	127.17
2_P2_S_cmb-25_N	350	450	35	2	18	2	18	1	18	509	509	254	Pilastro								481.26	-25.1	42.4	481.3	-65.4	110.4	2.604	200	6	481	1.0	119.0	1.0	119.7		0.0	119.03
2_P2_B_cmb-28_V	350	450	35	2	18	2	18	1	18	509	509	254	Pilastro											2716.7	0.0	0.0	-V-	200	6	542	33.3	127.5	114.3	127.9	2.3	8.7	1.12
2_P2_C_cmb-28_V	350	450	35	2	18	2	18	1	18	509	509	254	Pilastro											2716.7	0.0	0.0	-V-	200	6	536	33.3	126.6	114.3	127.1	2.3	8.7	1.11
2_P2_S_cmb-28_V	350	450	35	2	18	2	18	1	18	509	509	254	Pilastro											2716.7	0.0	0.0	-V-	200	6	529	33.3	125.7	114.3	126.2	2.3	8.7	1.10
2_P2_B_cmb-48_V	350	450	35	2	18	2	18	1	18	509	509	254	Pilastro	60	6	2	250							2814.8	0.0	0.0	-V-	200	6	563	122.6	131.9	20.7	130.7	4.2	9.1	1.58
2_P2_C_cmb-48_V	350	450	35	2	18	2	18	1	18	509	509	254	Pilastro	60	6	2	250							2814.8	0.0	0.0	-V-	200	6	557	122.6	131.9	20.7	129.9	4.2	9.1	1.58
2_P2_S_cmb-48_V	350	450	35	2	18	2	18	1	18	509	509	254	Pilastro	60	6	2	250							2814.8	0.0	0.0	-V-	200	6	550	122.6	131.9	20.7	129.2	4.2	9.1	1.58
2_P3_B_cmb-48_N	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250			1b12	462.46	158.0	19.5	462.5	161.5	19.9	1.022	200	6	462	1.0	170.3	1.0	129.2		0.0	129.23
2_P3_C_cmb-48_N	350	450	35	2	16	2	16			402	402	0	Pilastro								455.97	87.0	19.8	456.0	115.1	26.2	1.324	200	6	456	1.0	111.6	1.0	112.2		0.0	111.57
2_P3_S_cmb-25_N	350	450	35	2	16	2	16			402	402	0	Pilastro								500.50	-26.0	45.9	500.5	-48.3	85.3	1.859	200	6	501	1.0	117.7	1.0	118.2		0.0	117.73
2_P3_B_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	462	104.2	128.7	7.6	129.2	4.0	9.8	1.80
2_P3_C_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	456	104.2	128.7	7.6	129.2	4.0	9.8	1.80
2_P3_S_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	449	104.2	128.7	7.6	129.2	4.0	9.8	1.80
2_P3_B_cmb-54_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	498	104.2	130.4	22.7	129.2	3.8	9.4	1.83
2_P3_C_cmb-54_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	491	104.2	130.4	22.7	129.2	3.8	9.4	1.83
2_P3_S_cmb-54_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	485	104.2	130.4	22.7	129.2	3.8	9.4	1.83
2_P4_B_cmb-49_N	350	450	35	2	16	2	16			402	402	0	Pilastro								481.78	-122.4	-9.6	481.8	-126.6	-10.0	1.034	200	6	482	1.0	115.1	1.0	115.6		0.0	115.14
2_P4_C_cmb-51_N	350	450	35	2	16	2	16			402	402	0	Pilastro								450.94	-63.6	16.4	450.9	-112.7	28.9	1.770	200	6	451	1.0	110.9	1.0	111.5		0.0	110.88
2_P4_S_cmb-38_N	350	450	35	2	16	2	16			402	402	0	Pilastro								425.91	31.1	35.4	425.9	62.7	71.5	2.018	200	6	426	1.0	107.4	1.0	108.1		0.0	107.42
2_P4_B_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	350	101.8	118.7	6.5	120.2	4.0	9.4	1.83
2_P4_C_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	343	101.8	118.7	6.5	120.2	4.0	9.4	1.82
2_P4_S_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	337	101.8	118.7	6.5	120.2	4.0	9.4	1.82
2_P4_B_cmb-54_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	374	101.8	119.9	17.1	120.2	3.9	9.1	1.85
2_P4_C_cmb-54_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	368	101.8	119.9	17.1	120.2	3.9	9.1	1.85
2_P4_S_cmb-54_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	361	101.8	119.9	17.1	120.2	3.9	9.1	1.85
2_P5_B_cmb-32_N	350	450	35	2	14	2	14			308	308	0	Pilastro								262.89	-5.9	42.2	262.9	-10.2	72.5	1.717	200	6	263	1.0	98.7	1.0	83.3		0.0	83.29
2_P5_C_cmb-39_N	350	450	35	2	14	2	14			308	308	0	Pilastro								379.62	-16.2	7.6	379.6	-82.3	38.7	5.097	200	6	380	1.0	98.7	1.0	99.0		0.0	98.72
2_P5_S_cmb-36_N	350	450	35	2	14	2	14			308	308	0	Pilastro								252.18	5.7	-41.1	252.2	9.9	-71.8	1.747	200	6	252	1.0	98.7	1.0	81.8		0.0	81.84
2_P5_B_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	256	80.8	112.0	18.1	120.2	4.0	11.0	2.08
2_P5_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	249	80.8	112.0	18.1	120.2	4.0	11.0	2.08
2_P5_S_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	243	80.8	112.0	18.1	120.2	4.0	11.0	2.07
2_P5_B_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	256	80.8	112.0	18.1	120.2	4.0	11.0	2.08
2_P5_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	249	80.8	112.0	18.1	120.2	4.0	11.0	2.08
2_P5_S_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	243	80.8	112.0	18.1	120.2	4.0	11.0	2.07
2_P6_B_cmb-18_N	250	500	35	2	14	2	14	1	16	308	308	201	Pilastro								621.53	27.5	25.0	621.5	65.1	59.3	2.373	200	6	622	1.0	124.1	1.0	122.3		0.0	122.27
2_P6_C_cmb-04_N	250	500	35	2	14	2	14	1	16	308	308	201	Pilastro								647.85	-16.2	-26.1	647.9	-43.3	-69.7	2.672	200	6	648	1.0	127.8	1.0	125.7		0.0	125.66
2_P6_S_cmb-04_N	250	500	35	2	14	2	14	1	16	308	308	201	Pilastro								641.14	16.0	-44.0	641.1	27.2	-74.7	1.699	200	6	641	1.0	126.8	1.0	124.8		0.0	124.80
2_P6_B_cmb-28_V	250	500	35	2	14	2	14	1	16	308	308	201	Pilastro											2083.1	0.0	0.0	-V-	200	6	467	9.5	102.6	54.5	102.4	1.1	10.8	1.88
2_P6_C_cmb-28_V	250	500	35	2	14	2	14	1	16	308	308	201	Pilastro											2083.1	0.0	0.0	-V-	200	6	462	9.5	101.8	54.5	101.7	1.1	10.8	1.87
2_P6_S_cmb-28_V	250	500	35	2	14	2	14	1	16	308	308	201	Pilastro											2083.1	0.0	0.0	-V-	200	6	457	9.5	101.1	54.5	101.0	1.1	10.8	1.86
2_P6_B_cmb-48_V	250	500	35	2	14	2	14	1	16	308	308	201	Pilastro	60	6	1	150							2159.8	0.0	0.0	-V-	200	6	395	93.2	140.4	11.8	93.1	2.0	6.1	1.76
2_P6_C_cmb-48_V	250	500	35	2	14	2	14	1	16	308	308	201	Pilastro	60	6	1	150							2159.8	0.0	0.0	-V-	200	6	390	93.2	140.4	11.8	92.4	2.0	6.1	1.76
2_P6_S_cmb-48_V	250	500	35	2	14	2	14	1	16	308	308	201	Pilastro	60	6	1	150							2159.8	0.0	0.0	-V-	200	6	385	93.2	140.4	11.8	91.7	2.0	6.1	1.76
2_P7_B_cmb-51_N	350	350	35	2	18	2	18			509	509	0	Pilastro								214.48	-78.3	-4.3	214.5	-87.9	-4.8	1.122	200	6	214	1.0	75.2	1.0	75.2		0.0	75.25
2_P7_C_cmb-51_N	350	350	35	2	18	2	18			509	509	0	Pilastro								209.43	-23.5	7.9	209.4	-78.4	26.3	3.332	200	6	209	1.0	74.9	1.0	74.9		0.0	74.93
2_P7_S_cmb-49_N	350	350	35	2	18	2	18			509	509	0	Pilastro								226.81	42.9	31.9	226.8	64.3	47.8	1.498	200	6	227	1.0	76.9	1.0	76.9		0.0	76.91
2_P7_B_cmb-48_V	350	350	35	2	18	2	18			509	509	0	Pilastro											2049.1	0.0	0.0	-V-	200	6	487	78.9	112.0	4.5	112.0	2.5	3.7	1.20
2_P7_C_cmb-48_V	350	350	35	2	18	2	18			509	509	0	Pilastro											2049.1	0.0	0.0	-V-	200	6	482	78.9	111.4	4.5	111.4	2.5	3.7	1.19
2_P7_S_cmb-48_V	350	350	35	2	18	2	18			509	509	0	Pilastro											2049.1	0.0	0.0	-V-	200	6	477	78.9	110.7	4.5	110.7	2.5	3.7	1.19
2_P7_B_cmb-48_V	350	350	35	2	18	2	18			509	509	0	Pilastro											2049.1	0.0	0.0	-V-	200	6	487	78.9	112.0	4.5	112.0	2.5	3.7	1.20
2_P7_C_cmb-48_V	350	350	35	2	18	2	18			509	509	0	Pilastro											2049.1	0.0	0.0	-V-	200	6	482	78.9	111.4	4.5	111.4	2.5	3.7	1.19
2_P7_S_cmb-48_V	350	350	35	2	18	2	18			509	509	0	Pilastro											2049.1	0.0	0.0	-V-	200	6	477	78.9	110.7	4.5	110.7	2.5	3.7	1.19

Figura 31 - Verifica pilastri piano primo

Riga 67 / 67	PROPRIETA' GEOMETRICHE SEZIONI IN CA													RINFORZO CONFINAMENTO CAM							PRESSO FLESSIONE DEVIATA							TAGLIO Vx e Vy - TORSIONE (Accoppiata con Vy)									
DESCRIZIONE	B_x	H_y	c	n_1	ϕ_1	n_2	ϕ_2	n_3	ϕ_3	Af_1	Af_2	Af_3	Elemento *Trave o Pilastro*	L_{ang}	s_{ang}	n_{str}	passo	n_{fori}	Foro Staffatura (solo travi)	Flex (nBϕ)	N_{Ed}	$M_{Ed,x}$	$M_{Ed,y}$	N_{Rd}	$M_{Rd,x}$	$M_{Rd,y}$	S	p_{staffe}	ϕ_{staffe}	$N_{Ed,y}$	$V_{Ed,y}$	$V_{Rd,y}$	$V_{Ed,x}$	$V_{Rd,x}$	T_{Ed}	T_{Rd}	S
	mm	mm	mm		mm		mm		mm	mm^2	mm^2	mm^2		mm	mm		mm				KN	KNm	KNm	KN	KNm	KNm		mm	mm	KN	KN	KN	KN	KN	KNm	KNm	1.08
3_P1_B_cmb-54_N	350	450	35	2	16	2	16			402	402	0	Pilastro								322.61	53.5	-37.0	322.61	76.6	-53.0	1.431	200	6	323	1.0	98.7	1.0	94.2		0.0	94.16
3_P1_C_cmb-04_N	350	450	35	2	16	2	16			402	402	0	Pilastro								543.20	18.0	-10.9	543.20	94.6	-57.2	5.268	200	6	543	1.0	123.6	1.0	123.9		0.0	123.64
3_P1_S_cmb-54_N	350	450	35	2	16	2	16			402	402	0	Pilastro								309.62	-29.6	35.7	309.6	-55.5	66.9	1.876	200	6	310	1.0	98.7	1.0	92.4		0.0	92.40
3_P1_B_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	337	88.8	102.5	9.6	120.2	5.7	13.2	1.78
3_P1_C_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	330	88.8	102.5	9.6	120.2	5.7	13.2	1.77
3_P1_S_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	324	88.8	102.5	9.6	120.2	5.7	13.2	1.77
3_P1_B_cmb-54_V	350	450	35	2	16	2	16			402.12352	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	341	88.8	103.9	20.7	120.2	5.5	12.9	1.81
3_P1_C_cmb-54_V	350	450	35	2	16	2	16			402.12352	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	335	88.8	103.9	20.7	120.2	5.5	12.9	1.80
3_P1_S_cmb-54_V	350	450	35	2	16	2	16			402.12352	402	0	Pilastro	60	6	1	150							2556.4	0.0	0.0	-V-	200	6	328	88.8	103.9	20.7	120.2	5.5	12.9	1.80
3_P2_B_cmb-49_N	350	450	35	2	16	2	16	1	16	402.12352	402	201	Pilastro								383.32	-48.2	-36.1	383.3	-87.3	-65.5	1.813	200	6	383	1.0	101.5	1.0	102.4		0.0	101.52
3_P2_C_cmb-04_N	350	450	35	2	16	2	16	1	16	402.12352	402	201	Pilastro								618.29	-13.9	-12.4	618.3	-91.0	-81.0	6.545	200	6	618	1.0	134.0	1.0	134.1		0.0	134.03
3_P2_S_cmb-49_N	350	450	35	2	16	2	16	1	16	402	402	201	Pilastro								370.33	28.4	35.3	370.3	66.6	82.6	2.343	200	6	370	1.0	99.7	1.0	100.6		0.0	99.73
3_P2_B_cmb-28_V	350	450	35	2	16	2	16	1	16	402	402	201	Pilastro											2596.1	0.0	0.0	-V-	200	6	431	2.1	108.1	92.2	108.7	3.4	21.8	1.18
3_P2_C_cmb-28_V	350	450	35	2	16	2	16	1	16	402	402	201	Pilastro											2596.1	0.0	0.0	-V-	200	6	424	2.1	107.2	92.2	107.9	3.4	21.8	1.17
3_P2_S_cmb-28_V	350	450	35	2	16	2	16	1	16	402	402	201	Pilastro											2596.1	0.0	0.0	-V-	200	6	418	2.1	106.3	92.2	107.0	3.4	21.8	1.16
3_P2_B_cmb-48_V	350	450	35	2	16	2	16	1	16	402	402	201	Pilastro	60	6	2	250							2694.2	0.0	0.0	-V-	200	6	437	102.9	113.0	31.2	129.2	6.2	13.6	1.59
3_P2_C_cmb-48_V	350	450	35	2	16	2	16	1	16	402	402	201	Pilastro	60	6	2	250							2694.2	0.0	0.0	-V-	200	6	431	102.9	113.0	31.2	129.2	6.2	13.6	1.59
3_P2_S_cmb-48_V	350	450	35	2	16	2	16	1	16	402	402	201	Pilastro	60	6	2	250							2694.2	0.0	0.0	-V-	200	6	424	102.9	113.0	31.2	129.2	6.2	13.6	1.59
3_P3_B_cmb-48_N	350	450	35	2	14	2	14			308	308	0	Pilastro								405.53	41.6	50.0	405.5	53.0	63.8	1.276	200	6	406	1.0	100.9	1.0	102.5		0.0	100.94
3_P3_C_cmb-04_N	350	450	35	2	14	2	14			308	308	0	Pilastro								503.28	-11.3	10.1	503.3	-68.7	61.1	6.068	200	6	503	1.0	114.5	1.0	115.7		0.0	114.46
3_P3_S_cmb-52_N	350	450	35	2	14	2	14			308	308	0	Pilastro								392.61	-36.8	-45.8	392.6	-51.3	-63.8	1.395	200	6	393	1.0	99.2	1.0	100.8		0.0	99.15
3_P3_B_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	406	85.1	105.9	33.9	129.2	6.1	13.5	1.79
3_P3_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	399	85.1	105.9	33.9	129.2	6.1	13.5	1.79
3_P3_S_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	393	85.1	105.9	33.9	129.2	6.1	13.5	1.79
3_P3_B_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	406	85.1	105.9	33.9	129.2	6.1	13.5	1.79
3_P3_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	399	85.1	105.9	33.9	129.2	6.1	13.5	1.79
3_P3_S_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	393	85.1	105.9	33.9	129.2	6.1	13.5	1.79
3_P4_B_cmb-54_N	350	450	35	2	14	2	14			308	308	0	Pilastro								322.03	55.7	-34.3	322.0	70.8	-43.6	1.272	200	6	322	1.0	98.7	1.0	91.3		0.0	91.27
3_P4_C_cmb-04_N	350	450	35	2	14	2	14			308	308	0	Pilastro								554.25	12.5	-11.1	554.3	71.2	-63.4	5.713	200	6	554	1.0	121.5	1.0	122.6		0.0	121.51
3_P4_S_cmb-54_N	350	450	35	2	14	2	14			308	308	0	Pilastro								309.03	-34.5	32.0	309.0	-57.2	53.0	1.657	200	6	309	1.0	98.7	1.0	89.5		0.0	89.52
3_P4_B_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	308	78.3	98.5	16.3	120.2	5.6	13.5	1.92
3_P4_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	302	78.3	98.5	16.3	120.2	5.6	13.5	1.91
3_P4_S_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	295	78.3	98.5	16.3	120.2	5.6	13.5	1.91
3_P4_B_cmb-54_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	322	78.3	100.1	21.4	120.2	5.4	13.5	1.96
3_P4_C_cmb-54_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	316	78.3	100.1	21.4	120.2	5.4	13.5	1.95
3_P4_S_cmb-54_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	309	78.3	100.1	21.4	120.2	5.4	13.5	1.95
3_P5_B_cmb-51_N	350	450	35	2	12	2	12			226	226	0	Pilastro								315.37	-25.7	25.9	315.4	-48.1	48.6	1.873	250	6	315	1.0	88.5	1.0	90.4		0.0	88.47
3_P5_C_cmb-04_N	350	450	35	2	12	2	12			226	226	0	Pilastro								448.04	10.1	-9.0	448.0	58.9	-52.4	5.847	250	6	448	1.0	106.8	1.0	108.3		0.0	106.82
3_P5_S_cmb-35_N	350	450	35	2	12	2	12			226	226	0	Pilastro								242.64	7.3	-32.1	242.6	13.7	-60.1	1.871	250	6	243	1.0	79.0	1.0	80.6		0.0	78.97
3_P5_B_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	150							2423.9	0.0	0.0	-V-	250	6	226	65.5	80.8	0.2	105.2	5.6	9.9	1.23
3_P5_C_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	150							2423.9	0.0	0.0	-V-	250	6	219	65.5	80.8	0.2	105.2	5.6	9.9	1.23
3_P5_S_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	150							2423.9	0.0	0.0	-V-	250	6	213	65.5	80.8	0.2	105.2	5.6	9.9	1.23
3_P5_B_cmb-51_V	350	450	35	2	12	2	12			226	226	0	Pilastro											2312.3	0.0	0.0	-V-	250	6	315	65.5	88.5	17.2	90.4	4.7	7.0	1.10
3_P5_C_cmb-51_V	350	450	35	2	12	2	12			226	226	0	Pilastro											2312.3	0.0	0.0	-V-	250	6	309	65.5	87.6	17.2	89.5	4.7	7.0	1.09
3_P5_S_cmb-51_V	350	450	35	2	12	2	12			226	226	0	Pilastro											2312.3	0.0	0.0	-V-	250	6	302	65.5	86.7	17.2	88.6	4.7	7.0	1.08
3_P6_B_cmb-44_N	250	500	35	2	14	2	14	1	14	308	308	154	Pilastro								250.26	68.7	32.8	250.3	71.7	34.2	1.044	250	6	250	1.0	88.5	1.0	74.4		0.0	74.38
3_P6_C_cmb-04_N	250	500	35	2	14	2	14	1	14	308	308	154	Pilastro								455.30	11.4	9.1	455.3	62.6	50.1	5.499	250	6	455	1.0	100.9	1.0	100.8		0.0	100.83
3_P6_S_cmb-44_N	250	500	35	2	14	2	14	1	14	308	308	154	Pilastro								239.94	-60.5	-35.4	239.9	-64.5	-37.7	1.065	250	6	240	1.0	88.5	1.0	73.0		0.0	73.04
3_P6_B_cmb-28_V	250	500	35	2	14	2	14	1	14	308	308	154	Pilastro											2047.7	0.0	0.0	-V-	250	6	318	16.0	81.7	47.6	83.1	1.7	8.3	1.75
3_P6_C_cmb-28_V	250	500	35	2	14	2	14	1	14	308	308	154	Pilastro											2047.7	0.0	0.0	-V-	250	6	313	16.0	81.0	47.6	82.4	1.7	8.3	1.73
3_P6_S_cmb-28_V	250	500	35	2	14	2	14	1	14	308	308	154	Pilastro											2047.7	0.0	0.0	-V-	250	6	308	16.0	80.3	47.6	81.8	1.7	8.3	1.72
3_P6_B_cmb-48_V	250	500	35	2	14	2	14	1	14	308	308	154	Pilastro	60	6	1	150							2124.3	0.0	0.0	-V-	250	6	266	88.1	108.3	22.0	76.4	3.2	7.8	1.64
3_P6_C_cmb-48_V	250	500	35	2	14	2	14	1	14	308	308	154	Pilastro	60	6	1	150							2124.3	0.0	0.0	-V-	250	6	261	88.1	108.3	22.0	75.7	3.2	7.8	1.63
3_P6_S_cmb-48_V	250	500	35	2	14	2	14	1	14	308	308	154	Pilastro	60	6	1	150							2124.3	0.0	0.0	-V-	250	6	256	88.1	108.3	22.0	75.1	3.2	7.8	1.63
3_P7_B_cmb-44_N	350	300	35	2	16	2	16			402	402	0	Pilastro								206.55	32.5	49.0	206.6	34.4	51.9	1.059	200	6	207	1.0	67.0	1.0	74.9		0.0	67.04
3_P7_C_cmb-04_N	350	300	35	2	16	2	16			402	402	0	Pilastro								363.32	7.3	7.3	363.3	48.3	48.3	6.648	200	6	363	1.0	87.8	1.0	87.7		0.0	87.67
3_P7_S_cmb-35_N	350	300	35	2	16	2	16			402	402	0	Pilastro								188.34	9.3	-68.8	188.3	9.4	-69.6	1.011	200	6	188	1.0	64.6	1.0	74.9		0.0	64.62
3_P7_B_cmb-48_V	350	300	35	2	16	2	16			402	402	0	Pilastro											1730.7	0.0	0.0	-V-	200	6	214	47.9	68.1	30.2	74.9	2.8	5.0	1.12
3_P7_C_cmb-48_V	350	300	35	2	16	2	16			402	402	0	Pilastro											1730.7	0.0	0.0	-V-	200	6	210	47.9	67.5	30.2	74.9	2.8	5.0	1.11
3_P7_S_cmb-48_V	350	300	35	2	16	2	16			402	402	0	Pilastro											1730.7	0.0	0.0	-V-	200	6	206	47.9	66.9	30.2	74.9	2.8	5.0	1.11
3_P7_B_cmb-51_V	350	300	35	2	16	2	16			402	402	0	Pilastro											1730.7	0.0	0.0	-V-	200	6	205	47.9	66.9	35.3	74.9	2.3	4.3	1.15
3_P7_C_cmb-51_V	350	300	35	2	16	2	16			402	402	0	Pilastro											1730.7	0.0	0.0	-V-	200	6	201	47.9	66.3	35.3	74.9	2.3	4.3	1.14
3_P7_S_cmb-51_V	350	300	35	2	16	2	16			402	402	0	Pilastro											1730.7	0.0	0.0	-V-	200	6	197	47.9	65.7	35.3	74.9	2.3	4.3	1.13

Figura 32 - Verifica pilastri piano secondo

Riga 67 / 67	PROPRIETA' GEOMETRICHE SEZIONE IN CA													RINFORZO CONFINAMENTO CAM							PRESSO FLESSIONE DEVIATA							TAGLIO Vx e Vy - TORSIONE (Accoppiata con Vy)									
DESCRIZIONE	B_x	H_y	c	n_1	ϕ_1	n_2	ϕ_2	n_3	ϕ_3	Af_1	Af_2	Af_3	Elemento *Trave* o *Pilastro*	L_{ang}	s_{ang}	n_{str}	passo	n_{fori}	Foro Staffatura (solo travi)	Flex	N_{Ed}	$M_{Ed,x}$	$M_{Ed,y}$	N_{Rd}	$M_{Rd,x}$	$M_{Rd,y}$	S	p_{staffe}	ϕ_{staffe}	$N_{Ed,y}$	$V_{Ed,y}$	$V_{Rd,y}$	$V_{Ed,x}$	$V_{Rd,x}$	T_{Ed}	T_{Rd}	S
	mm	mm	mm		mm		mm		mm	mm^2	mm^2	mm^2		mm	mm		mm			(nBϕ)	KN	KNm	KNm	KN	KNm	KNm		mm	mm	KN	KN	KN	KN	KN	KNm	KNm	1.02
4_P1_B_cmb-51_N	350	450	35	2	14	2	14			308	308	0	Pilastro								286.74	-22.1	42.2	286.74	-34.0	65.1	1.543	200	6	287	1.0	98.7	1.0	86.5		0.0	86.51
4_P1_C_cmb-11_N	350	450	35	2	14	2	14			308	308	0	Pilastro								339.67	-7.6	-6.8	339.67	-60.2	-53.5	7.885	200	6	340	1.0	98.7	1.0	93.7		0.0	93.65
4_P1_S_cmb-35_N	350	450	35	2	14	2	14			308	308	0	Pilastro								320.14	7.2	-47.2	320.1	11.6	-76.3	1.617	200	6	320	1.0	98.7	1.0	91.0		0.0	91.02
4_P1_B_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	229	72.6	92.1	2.6	120.2	6.2	13.5	1.87
4_P1_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	223	72.6	92.1	2.6	120.2	6.2	13.5	1.87
4_P1_S_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	216	72.6	92.1	2.6	120.2	6.2	13.5	1.87
4_P1_B_cmb-51_V	350	450	35	2	14	2	14			307.87582	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	287	72.6	99.8	27.1	120.2	5.1	13.5	2.08
4_P1_C_cmb-51_V	350	450	35	2	14	2	14			307.87582	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	280	72.6	99.8	27.1	120.2	5.1	13.5	2.07
4_P1_S_cmb-51_V	350	450	35	2	14	2	14			307.87582	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	274	72.6	99.8	27.1	120.2	5.1	13.5	2.07
4_P2_B_cmb-48_N	350	450	35	2	16	2	16			402.12352	402	0	Pilastro								318.18	33.8	42.0	318.2	54.8	68.0	1.620	200	6	318	1.0	98.7	1.0	93.6		0.0	93.56
4_P2_C_cmb-18_N	350	450	35	2	16	2	16			402.12352	402	0	Pilastro								397.17	13.1	-7.9	397.2	85.8	-51.9	6.538	200	6	397	1.0	103.4	1.0	104.2		0.0	103.44
4_P2_S_cmb-28_N	350	450	35	2	16	2	16			402	402	0	Pilastro								313.83	-8.0	-50.2	313.8	-13.6	-86.1	1.714	200	6	314	1.0	98.7	1.0	93.0		0.0	92.97
4_P2_B_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	318	89.3	103.6	29.7	129.2	6.8	15.8	1.65
4_P2_C_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	312	89.3	103.6	29.7	129.2	6.8	15.8	1.64
4_P2_S_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	305	89.3	103.6	29.7	129.2	6.8	15.8	1.64
4_P2_B_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	318	89.3	103.6	29.7	129.2	6.8	15.8	1.65
4_P2_C_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	312	89.3	103.6	29.7	129.2	6.8	15.8	1.64
4_P2_S_cmb-48_V	350	450	35	2	16	2	16			402	402	0	Pilastro	60	6	2	250							2542.8	0.0	0.0	-V-	200	6	305	89.3	103.6	29.7	129.2	6.8	15.8	1.64
4_P3_B_cmb-52_N	350	450	35	2	14	2	14			308	308	0	Pilastro								292.65	31.9	44.8	292.7	43.2	60.7	1.353	200	6	293	1.0	98.7	1.0	87.3		0.0	87.31
4_P3_C_cmb-04_N	350	450	35	2	14	2	14			308	308	0	Pilastro								391.23	8.8	-7.8	391.2	63.0	-56.0	7.157	200	6	391	1.0	99.0	1.0	100.6		0.0	98.96
4_P3_S_cmb-28_N	350	450	35	2	14	2	14			308	308	0	Pilastro								243.96	-17.6	-48.2	244.0	-24.2	-66.2	1.374	200	6	244	1.0	98.7	1.0	80.7		0.0	80.73
4_P3_B_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	293	76.3	96.6	31.7	129.2	6.9	13.5	1.78
4_P3_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	286	76.3	96.6	31.7	129.2	6.9	13.5	1.77
4_P3_S_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	280	76.3	96.6	31.7	129.2	6.9	13.5	1.77
4_P3_B_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	293	76.3	96.6	31.7	129.2	6.9	13.5	1.78
4_P3_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	286	76.3	96.6	31.7	129.2	6.9	13.5	1.77
4_P3_S_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	250							2471.9	0.0	0.0	-V-	200	6	280	76.3	96.6	31.7	129.2	6.9	13.5	1.77
4_P4_B_cmb-54_N	350	450	35	2	14	2	14			308	308	0	Pilastro								270.28	32.2	-30.4	270.3	54.5	-51.5	1.694	200	6	270	1.0	98.7	1.0	84.3		0.0	84.29
4_P4_C_cmb-04_N	350	450	35	2	14	2	14			308	308	0	Pilastro								449.44	-10.1	9.0	449.4	-66.0	58.7	6.526	200	6	449	1.0	107.0	1.0	108.5		0.0	107.02
4_P4_S_cmb-54_N	350	450	35	2	14	2	14			308	308	0	Pilastro								257.28	-28.5	29.1	257.3	-51.5	52.5	1.807	200	6	257	1.0	98.7	1.0	82.5		0.0	82.53
4_P4_B_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	276	71.5	91.4	15.2	120.2	6.2	13.5	1.92
4_P4_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	270	71.5	91.4	15.2	120.2	6.2	13.5	1.92
4_P4_S_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	263	71.5	91.4	15.2	120.2	6.2	13.5	1.91
4_P4_B_cmb-54_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	270	71.5	92.7	18.6	120.2	6.0	13.5	1.94
4_P4_C_cmb-54_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	264	71.5	92.7	18.6	120.2	6.0	13.5	1.94
4_P4_S_cmb-54_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							2485.4	0.0	0.0	-V-	200	6	257	71.5	92.7	18.6	120.2	6.0	13.5	1.93
4_P5_B_cmb-35_N	350	450	35	2	12	2	12			226	226	0	Pilastro								188.26	-9.8	28.1	188.3	-18.7	53.8	1.914	250	6	188	1.0	79.0	1.0	73.2		0.0	73.21
4_P5_C_cmb-04_N	350	450	35	2	12	2	12			226	226	0	Pilastro								359.68	8.1	7.2	359.7	54.2	48.2	6.701	250	6	360	1.0	94.6	1.0	96.4		0.0	94.60
4_P5_S_cmb-35_N	350	450	35	2	12	2	12			226	226	0	Pilastro								175.27	3.9	-24.2	175.3	9.1	-56.1	2.321	250	6	175	1.0	79.0	1.0	71.5		0.0	71.46
4_P5_B_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	150							2423.9	0.0	0.0	-V-	250	6	196	60.8	74.6	1.3	105.2	6.2	9.9	1.23
4_P5_C_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	150							2423.9	0.0	0.0	-V-	250	6	190	60.8	74.6	1.3	105.2	6.2	9.9	1.23
4_P5_S_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	150							2423.9	0.0	0.0	-V-	250	6	183	60.8	74.6	1.3	105.2	6.2	9.9	1.23
4_P5_B_cmb-51_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	150							2423.9	0.0	0.0	-V-	250	6	242	60.8	81.4	15.9	105.2	5.1	9.9	1.34
4_P5_C_cmb-51_V	350	450	35	2	12	2	12			226	226	0	Pilastro											2312.3	0.0	0.0	-V-	250	6	235	60.8	77.4	15.9	79.6	5.1	7.7	1.03
4_P5_S_cmb-51_V	350	450	35	2	12	2	12			226	226	0	Pilastro											2312.3	0.0	0.0	-V-	250	6	229	60.8	76.5	15.9	78.7	5.1	7.7	1.02
4_P6_B_cmb-44_N	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	150			1b12	116.24	57.9	31.4	116.2	76.9	41.6	1.327	250	6	116	1.0	155.3	1.0	71.8		0.0	71.80
4_P6_C_cmb-04_N	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	150				254.72	6.4	-5.1	254.7	47.3	-37.8	7.420	250	6	255	1.0	155.3	1.0	74.3		0.0	74.30
4_P6_S_cmb-44_N	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	150			1b12	105.93	-52.0	-32.8	105.9	-70.3	-44.4	1.352	250	6	106	1.0	155.3	1.0	71.8		0.0	71.80
4_P6_B_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	150							2032.1	0.0	0.0	-V-	250	6	134	70.9	97.6	19.7	71.8	3.5	9.6	1.72
4_P6_C_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	150							2032.1	0.0	0.0	-V-	250	6	129	70.9	97.6	19.7	71.8	3.5	9.6	1.72
4_P6_S_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	150							2032.1	0.0	0.0	-V-	250	6	124	70.9	97.6	19.7	71.8	3.5	9.6	1.71
4_P6_B_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	150							2032.1	0.0	0.0	-V-	250	6	134	70.9	97.6	19.7	71.8	3.5	9.6	1.72
4_P6_C_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	150							2032.1	0.0	0.0	-V-	250	6	129	70.9	97.6	19.7	71.8	3.5	9.6	1.72
4_P6_S_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	150							2032.1	0.0	0.0	-V-	250	6	124	70.9	97.6	19.7	71.8	3.5	9.6	1.71
3_P7_B_cmb-54_N	300	300	35	2	16	2	16			402	402	0	Pilastro	60	6	1	150			1b12	99.46	57.5	-35.8	99.5	62.3	-38.8	1.083	200	6	99	1.0	101.1	1.0	101.1		0.0	101.10
3_P7_C_cmb-04_N	300	300	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150				133.38	2.7	8.5	133.4	13.7	43.4	5.129	200	6	133	1.0	101.1	1.0	101.1		0.0	101.10
3_P7_S_cmb-54_N	300	300	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150			1b16	92.03	-68.7	46.3	92.0	-69.0	46.5	1.005	200	6	92	1.0	101.1	1.0	101.1		0.0	101.10
3_P7_B_cmb-48_V	300	300	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							1537.0	0.0	0.0	-V-	200	6	95	41.1	68.8	21.8	101.1	2.1	6.9	1.99
3_P7_C_cmb-48_V	300	300	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							1537.0	0.0	0.0	-V-	200	6	91	41.1	68.8	21.8	101.1	2.1	6.9	1.99
3_P7_S_cmb-48_V	300	300	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							1537.0	0.0	0.0	-V-	200	6	87	41.1	68.8	21.8	101.1	2.1	6.9	1.98
3_P7_B_cmb-54_V	300	300	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							1537.0	0.0	0.0	-V-	200	6	99	41.2	69.6	26.8	101.1	2.0	6.7	2.02
3_P7_C_cmb-54_V	300	300	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							1537.0	0.0	0.0	-V-	200	6	96	41.2	69.6	26.8	101.1	2.0	6.7	2.01
3_P7_S_cmb-54_V	300	300	35	2	14	2	14			308	308	0	Pilastro	60	6	1	150							1537.0	0.0	0.0	-V-	200	6	92	41.2	69.6	26.8	101.1	2.0	6.7	2.01

Figura 33 - Verifica pilastri piano terzo

Riga 58 / 58	PROPRIETA' GEOMETRICHE SEZIONE IN CA													RINFORZO CONFINAMENTO CAM							PRESSO FLESSIONE DEVIATA							TAGLIO Vx e Vy - TORSIONE (Accoppiata con Vy)									
DESCRIZIONE	B_x	H_y	c	n_1	ϕ_1	n_2	ϕ_2	n_3	ϕ_3	Af_1	Af_2	Af_3	Elemento *Trave o Pilastro*	L_{ang}	s_{ang}	n_{str}	passo	n_{fori}	Foro Staffatura (solo travi)	Flex	N_{Ed}	$M_{Ed,x}$	$M_{Ed,y}$	N_{Rd}	$M_{Rd,x}$	$M_{Rd,y}$	S	p_{staffe}	ϕ_{staffe}	$N_{Ed,y}$	$V_{Ed,y}$	$V_{Rd,y}$	$V_{Ed,x}$	$V_{Rd,x}$	T_{Ed}	T_{Rd}	S
	mm	mm	mm		mm		mm		mm	mm^2	mm^2	mm^2		mm	mm		mm			(nBϕ)	KN	KNm	KNm	KN	KNm	KNm		mm	mm	KN	KN	KN	KN	KN	KNm	KNm	1.06
5_P1_B_cmb-51_N	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	200	0		1B10	163.64	-70.0	26.1	163.64	-77.8	29.1	1.112	200	6	164	1.0	143.4	1.0	108.9		0.0	108.86
5_P1_C_cmb-51_N	350	450	35	2	12	2	12			226	226	0	Pilastro								157.14	-31.8	11.9	157.14	-53.8	20.1	1.692	200	6	157	1.0	98.7	1.0	74.9		0.0	74.93
5_P1_S_cmb-09_N	350	450	35	2	12	2	12			226	226	0	Pilastro								255.08	-5.7	-5.1	255.1	-43.5	-38.6	7.576	200	6	255	1.0	98.7	1.0	82.2		0.0	82.23
5_P1_B_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	200							1670.1	0.0	0.0	-V-	200	6	167	67.1	70.9	0.6	108.9	8.1	9.9	1.06
5_P1_C_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	200							1670.1	0.0	0.0	-V-	200	6	160	67.1	70.9	0.6	108.9	8.1	9.9	1.06
5_P1_S_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	200							1670.1	0.0	0.0	-V-	200	6	154	67.1	70.9	0.6	108.9	8.1	9.9	1.06
5_P1_B_cmb-54_V	350	450	35	2	12	2	12			226.2	226	0	Pilastro	60	6	1	200							1670.1	0.0	0.0	-V-	200	6	100	67.1	70.9	8.7	108.9	8.1	9.9	1.06
5_P1_C_cmb-54_V	350	450	35	2	12	2	12			226.2	226	0	Pilastro	60	6	1	200							1670.1	0.0	0.0	-V-	200	6	94	67.1	70.9	8.7	108.9	8.1	9.9	1.06
5_P1_S_cmb-54_V	350	450	35	2	12	2	12			226.2	226	0	Pilastro	60	6	1	200							1670.1	0.0	0.0	-V-	200	6	87	67.1	70.9	8.7	108.9	8.1	9.9	1.06
5_P2_B_cmb-29_N	350	450	35	2	12	2	12			226.2	226	0	Pilastro	60	6	1	200	0		1B8	110.10	8.6	-49.5	110.1	10.3	-59.5	1.203	200	6	110	1.0	143.4	1.0	108.9		0.0	108.86
5_P2_C_cmb-29_N	350	450	35	2	12	2	12			226.2	226	0	Pilastro								103.60	4.1	-23.6	103.6	7.8	-45.0	1.911	200	6	104	1.0	98.7	1.0	74.9		0.0	74.93
5_P2_S_cmb-09_N	350	450	35	2	12	2	12			226	226	0	Pilastro								230.76	-5.2	-4.6	230.8	-42.2	-37.5	8.124	200	6	231	1.0	98.7	1.0	79.0		0.0	78.95
5_P2_B_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	204	61.0	85.0	17.5	142.8	8.8	9.9	1.13
5_P2_C_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	197	61.0	85.0	17.5	142.8	8.8	9.9	1.13
5_P2_S_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	191	61.0	85.0	17.5	142.8	8.8	9.9	1.13
5_P2_B_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	204	61.0	85.0	17.5	142.8	8.8	9.9	1.13
5_P2_C_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	197	61.0	85.0	17.5	142.8	8.8	9.9	1.13
5_P2_S_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	191	61.0	85.0	17.5	142.8	8.8	9.9	1.13
5_P3_B_cmb-28_N	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	200	0		1B8	168.44	17.6	59.8	168.4	18.1	61.4	1.027	200	6	168	1.0	143.4	1.0	108.9		0.0	108.86
5_P3_C_cmb-28_N	350	450	35	2	12	2	12			226	226	0	Pilastro								161.94	8.3	28.2	161.9	14.0	47.5	1.683	200	6	162	1.0	98.7	1.0	74.9		0.0	74.93
5_P3_S_cmb-04_N	350	450	35	2	12	2	12			226	226	0	Pilastro								272.93	-6.1	5.5	272.9	-44.4	39.5	7.230	200	6	273	1.0	98.7	1.0	84.6		0.0	84.64
5_P3_B_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	201	61.1	90.6	18.7	142.8	7.8	9.9	1.28
5_P3_C_cmb-48_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	200							1790.2	0.0	0.0	-V-	200	6	194	61.1	90.6	18.7	142.8	7.8	13.5	1.52
5_P3_S_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	188	61.1	90.6	18.7	142.8	7.8	9.9	1.28
5_P3_B_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	201	61.1	90.6	18.7	142.8	7.8	9.9	1.28
5_P3_C_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	194	61.1	90.6	18.7	142.8	7.8	9.9	1.28
5_P3_S_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	188	61.1	90.6	18.7	142.8	7.8	9.9	1.28
5_P4_B_cmb-54_N	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	200	0		1B10	224.45	64.6	-41.5	224.5	68.6	-44.0	1.061	200	6	224	1.0	143.4	1.0	108.9		0.0	108.86
5_P4_C_cmb-54_N	350	450	35	2	12	2	12			226	226	0	Pilastro								217.96	29.4	-18.9	218.0	48.7	-31.3	1.658	200	6	218	1.0	98.7	1.0	77.2		0.0	77.22
5_P4_S_cmb-04_N	350	450	35	2	12	2	12			226	226	0	Pilastro								339.08	-7.6	6.8	339.1	-47.8	42.4	6.260	200	6	339	1.0	98.7	1.0	93.6		0.0	93.57
5_P4_B_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	231	61.1	90.4	9.2	142.8	7.8	9.9	1.27
5_P4_C_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	225	61.1	90.4	9.2	142.8	7.8	9.9	1.27
5_P4_S_cmb-48_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	218	61.1	90.4	9.2	142.8	7.8	9.9	1.27
5_P4_B_cmb-54_V	350	450	35	2	14	2	14			308	308	0	Pilastro	60	6	2	200							1790.2	0.0	0.0	-V-	200	6	224	61.1	91.0	14.8	142.8	7.7	13.5	1.49
5_P4_C_cmb-54_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	218	61.1	91.0	14.8	142.8	7.7	9.9	1.29
5_P4_S_cmb-54_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	200	6	211	61.1	91.0	14.8	142.8	7.7	9.9	1.29
5_P5_B_cmb-35_N	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	1	200	0		1B8	95.57	-13.9	45.4	95.6	-17.2	56.1	1.237	200	6	96	1.0	143.4	1.0	108.9		0.0	108.86
5_P5_C_cmb-35_N	350	450	35	2	12	2	12			226	226	0	Pilastro								89.07	-6.3	20.6	89.1	-12.9	42.2	2.045	200	6	89	1.0	98.7	1.0	74.9		0.0	74.93
5_P5_S_cmb-38_N	350	450	35	2	12	2	12			226	226	0	Pilastro								266.56	-6.0	-5.3	266.6	-44.1	-39.2	7.348	200	6	267	1.0	98.7	1.0	83.8		0.0	83.78
5_P5_B_cmb-51_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	250	6	133	64.7	83.2	13.9	127.8	7.8	9.9	1.27
5_P5_C_cmb-51_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	250	6	126	64.7	83.2	13.9	127.8	7.8	9.9	1.27
5_P5_S_cmb-51_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	250	6	120	64.7	83.2	13.9	127.8	7.8	9.9	1.27
5_P5_B_cmb-54_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	250	6	242	64.7	82.4	7.0	127.8	8.0	9.9	1.24
5_P5_C_cmb-54_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	250	6	236	64.7	82.4	7.0	127.8	8.0	9.9	1.24
5_P5_S_cmb-54_V	350	450	35	2	12	2	12			226	226	0	Pilastro	60	6	2	200							1728.7	0.0	0.0	-V-	250	6	229	64.7	82.4	7.0	127.8	8.0	9.9	1.24
5_P6_B_cmb-44_N	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	200	0		1B10	0.40	77.5	16.3	0.4	77.9	16.3	1.005	250	6	0	1.0	138.6	1.0	64.1		0.0	64.08
5_P6_C_cmb-18_N	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro								91.30	15.9	8.1	91.3	44.7	22.9	2.813	250	6	91	1.0	88.5	1.0	53.2		0.0	53.22
5_P6_S_cmb-44_N	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	200	0		1B10	-9.91	-88.0	-2.4	-9.9	-88.2	-2.4	1.002	250	6	-10	1.0	138.6	1.0	64.1		0.0	64.08
5_P6_B_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	200							1436.2	0.0	0.0	-V-	250	6	18	60.6	73.7	7.1	64.1	4.4	10.8	1.64
5_P6_C_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	200							1436.2	0.0	0.0	-V-	250	6	13	60.6	73.7	7.1	64.1	4.4	10.8	1.64
5_P6_S_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	200							1436.2	0.0	0.0	-V-	250	6	8	60.6	73.7	7.1	64.1	4.4	10.8	1.63
5_P6_B_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	200							1436.2	0.0	0.0	-V-	250	6	18	60.6	73.7	7.1	64.1	4.4	10.8	1.64
5_P6_C_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	200							1436.2	0.0	0.0	-V-	250	6	13	60.6	73.7	7.1	64.1	4.4	10.8	1.64
5_P6_S_cmb-48_V	250	500	35	2	12	2	12	1	12	226	226	113	Pilastro	60	6	1	200							1436.2	0.0	0.0	-V-	250	6	8	60.6	73.7	7.1	64.1	4.4	10.8	1.63

Figura 34 - Verifica pilastri piano quarto

IV.2.5. Verifiche travi in c.a.

Si riportano le tabelle di verifica degli elementi trave per ciascun livello. Per identificazione travi si rimanda alle tavole di progetto (Elaborati EST01, EST02).

Riga 109 / 109	PROPRIETA' GEOMETRICHE SEZIONE IN CA													RINFORZO CONFINAMENTO CAM							PRESSO FLESSIONE DEVIATA							TAGLIO Vx e Vy - TORSIONE (Accoppiata con Vy)									
DESCRIZIONE	B_x	H_y	c	n_1	ϕ_1	n_2	ϕ_2	n_3	ϕ_3	Af_1	Af_2	Af_3	Elemento *Trave* o *Pilastro*	L_{ang}	s_{ang}	n_{str}	passo	n_{fori}	Foro Staffatura (solo travi)	Flex	N_{Ed}	$M_{Ed,x}$	$M_{Ed,y}$	N_{Rd}	$M_{Rd,x}$	$M_{Rd,y}$	S	p_{staffe}	ϕ_{staffe}	$N_{Ed,y}$	$V_{Ed,y}$	$V_{Rd,y}$	$V_{Ed,x}$	$V_{Rd,x}$	T_{Ed}	T_{Rd}	S
	mm	mm	mm		mm		mm		mm	mm^2	mm^2	mm^2		mm	mm		mm			(nBϕ)	KN	KNm	KNm	KN	KNm	KNm		mm	mm	KN	KN	KN	KN	KN	KNm	KNm	1.02
Interrato - Trave T1 - appoggio (M+)	400	1000	25	4	20	6	20	2	8	1885	1257	101	Trave								0.00	1.0		0.0	785.6	0.0	785.640	250	8	0	459.3	329.3	0.0	155.7	0.1	0.1	1.19
Interrato - Trave T1 - appoggio (M-)	400	1000	25	4	20	6	20	2	8	1257	1885	101	Trave								-67.85	-426.0		-67.9	-571.1	0.0	1.341	250	8	-68	459.3	329.3	0.0	126.9	0.1	0.1	1.19
Interrato - Trave T1 - mezzeria (M+)	400	1000	70	2	20	11	20	2	8	628	3456	101	Trave								-67.85	867.2		-67.8	1105.9	0.0	1.275	250	8	-68		82.5	0.0	111.6	0.1	82.9	944.44
Interrato - Trave T1 - mezzeria (M-)	400	1000	70	2	20	11	20	2	8	628	3456	101	Trave								0.00	-1.0		0.0	-281.5	0.0	281.496	250	8	0		91.9	0.0	111.6	0.1	82.9	944.44
Interrato - Trave T4 - appoggio (M+)	300	500	25	3	10	2	10			236	157	0	Trave	60	6	3	200			1b16	6.80	123.9		6.8	129.1	0.0	1.042	250	8	3	72.5	251.1		181.9		0.0	3.46
Interrato - Trave T4 - appoggio (M-)	300	500	25	3	10	2	10			236	157	0	Trave	60	6	3	200			1b16	6.80	-152.3		6.8	-143.5	0.0	0.942	250	8	3	93.8	251.1		181.9		0.0	2.68
Interrato - Trave T4 - mezzeria (M+)	300	500	25	2	10	3	10			157	236	0	Trave								1.74	10.6		1.7	49.4	0.0	4.664	250	8	2	93.8	160.7		93.0		0.0	1.71
Interrato - Trave T4 - mezzeria (M-)	300	500	25	2	10	3	10			157	236	0	Trave								0.00	-1.0		0.0	-34.2	0.0	34.153	250	8	2	93.8	160.7		93.0		0.0	1.71
Interrato - Trave T5 - appoggio (M+)	300	500	25	3	10	2	10			236	157	0	Trave	60	6	3	200			1b16	-5.20	112.5		-5.2	126.6	0.0	1.126	250	8	-4	54.8	250.8		181.9		0.0	4.58
Interrato - Trave T5 - appoggio (M-)	300	500	25	3	10	2	10			236	157	0	Trave	60	6	3	200			1b16	5.20	-115.0		5.2	-143.2	0.0	1.245	250	8	4	77.1	251.2		181.9		0.0	3.26
Interrato - Trave T5 - mezzeria (M+)	300	500	25	2	10	3	10			157	236	0	Trave								-4.00	8.2		-4.0	48.4	0.0	5.871	250	8	-4	77.1	160.7		93.0		0.0	2.08
Interrato - Trave T5 - mezzeria (M-)	300	500	25	2	10	3	10			157	236	0	Trave								-4.00	8.2		-4.0	48.4	0.0	5.871	250	8	-4	77.1	160.7		93.0		0.0	2.08
Interrato - Trave T6 - appoggio (M+)	300	500	25	2	10	2	10			157	157	0	Trave	60	6	3	200			1b16	13.04	112.3		13.0	129.7	0.0	1.155	250	8	13	139.2	252.2		181.9		0.0	1.81
Interrato - Trave T6 - appoggio (M-)	300	500	25	2	10	2	10			157	157	0	Trave	60	6	3	200			1b16	13.04	-107.5		13.0	-129.7	0.0	1.207	250	8	13	149.0	252.2		181.9		0.0	1.69
Interrato - Trave T6 - mezzeria (M+)	300	500	25	2	10	2	10			157	157	0	Trave								0.00	0.0		2145.5	0.0	0.0	-V-	250	8	13	149.0	160.7		93.0		0.0	1.08
Interrato - Trave T6 - mezzeria (M-)	300	500	25	2	10	2	10			157	157	0	Trave								0.00	-1.0		0.0	-34.2	0.0	34.216	250	8	13	149.0	160.7		93.0		0.0	1.08
Interrato - Trave T9 - appoggio (M+)	500	200	25	2	14	2	14			311	308	0	Trave	60	6	3	200			1b12	4.84	28.6		4.8	40.8	0.0	1.425	250	8	5	48.5	115.8		189.1		0.0	2.39
Interrato - Trave T9 - appoggio (M-)	500	200	25	2	14	2	14			311	308	0	Trave	60	6	3	200			1b16	4.84	-53.6		4.8	-54.0	0.0	1.008	250	8	5	48.5	115.8		189.1		0.0	2.39
Interrato - Trave T9 - mezzeria (M+)	500	200	25	2	10	3	14			157	462	0	Trave								-16.42	10.3		-16.4	28.3	0.0	2.744	250	8	-1	10.8	34.5		132.8	3.2	9.2	1.74
Interrato - Trave T9 - mezzeria (M-)	500	200	25	2	10	3	14			157	462	0	Trave								0.00	-1.0		0.0	-11.5	0.0	11.494	250	8	0	10.8	34.5		132.8	3.2	9.2	1.74
Piano +0.40m - Trave T101 - appoggio (M+)	300	370	25	3	10	2	10			236	157	0	Trave	60	6	3	200			1b16	1.86	73.2		1.9	92.8	0.0	1.267	250	6	2	35.0	166.8		141.2		0.0	4.77
Piano +0.40m - Trave T101 - appoggio (M-)	300	370	25	3	10	2	10			236	157	0	Trave	60	6	3	200			1b16	1.86	-89.5		1.9	-100.2	0.0	1.120	250	6	2	52.7	166.8		141.2		0.0	3.16
Piano +0.40m - Trave T101 - mezzeria (M+)	300	370	25	2	10	3	10			157	236	0	Trave								3.26	8.7		3.3	34.1	0.0	3.924	250	6	3	52.7	65.7		52.3		0.0	1.25
Piano +0.40m - Trave T101 - mezzeria (M-)	300	370	25	2	10	3	10			157	236	0	Trave								0.00	-1.0		0.0	-23.3	0.0	23.303	250	6	0	52.7	65.7		52.3		0.0	1.25
Piano +0.40m - Trave T102 - appoggio (M+)	300	370	25	3	10	2	10			236	157	0	Trave	60	6	3	200			1b16	4.76	64.6		4.8	93.2	0.0	1.442	250	6	5	28.7	167.1		141.2		0.0	5.81
Piano +0.40m - Trave T102 - appoggio (M-)	300	370	25	3	10	2	10			236	157	0	Trave	60	6	3	200			1b16	4.76	-74.9		4.8	-100.4	0.0	1.341	250	6	5	46.5	167.1		141.2		0.0	3.60
Piano +0.40m - Trave T102 - mezzeria (M+)	300	370	25	2	10	3	10			157	236	0	Trave								3.80	4.1		3.8	34.2	0.0	8.417	250	6	4	46.5	65.7		52.3		0.0	1.41
Piano +0.40m - Trave T102 - mezzeria (M-)	300	370	25	2	10	3	10			157	236	0	Trave								0.00	-1.0		0.0	-23.3	0.0	23.303	250	6	0	46.5	65.7		52.3		0.0	1.41
Piano +0.40m - Trave T103 - appoggio (M+)	300	370	25	2	10	2	10			157	157	0	Trave	60	6	3	200			1b20	-10.99	98.6		-11.0	118.1	0.0	1.198	250	6	-11	109.3	166.6		141.2		0.0	1.53
Piano +0.40m - Trave T103 - appoggio (M-)	300	370	25	2	10	2	10			157	157	0	Trave	60	6	3	200			1b20	-10.99	-92.9		-11.0	-118.1	0.0	1.270	250	6	-11	117.3	166.6		141.2		0.0	1.42
Piano +0.40m - Trave T103 - mezzeria (M+)	300	370	25	2	10	2	10			157	157	0	Trave	60	6	3	200				0.00	1.0		0.0	24.9	0.0	24.901	250	6	0	117.3	166.6		141.2		0.0	1.42
Piano +0.40m - Trave T103 - mezzeria (M-)	300	370	25	2	10	2	10			157	157	0	Trave	60	6	3	200				0.00	-1.0		0.0	-24.9	0.0	24.901	250	6	0	117.3	166.6		141.2		0.0	1.42
Piano +0.40m - Trave PORTALE C2 - appoggio	350	1100	25	2	30	5	24	2	12	1451	2262	226	Trave	80	6	3	200				0.00	1.0		0.0	1034.7	0.0	######	75	8	0	643.4	750.0		471.5		0.0	1.17
Piano +0.40m - Trave PORTALE C2 appoggio (	350	1100	25	2	30	5	24	2	12	1451	2262	226	Trave	80	6	3	200			1b16	44.75	-908.4		44.7	-1021.3	0.0	1.124	75	8	45	643.4	758.1		471.5		0.0	1.18
Piano +0.40m - Trave PORTALE C2 - mezzeria	350	1100	25	2	18	15	24	2	12	509	6786	226	Trave	80	6	3	200				42.68	#####		42.7	2150.5	0.0	1.043	200	8	43	598.0	626.5		242.5		0.0	1.05
Piano +0.40m - Trave PORTALE C2 - mezzeria	350	1100	25	2	18	15	24	2	12	509	6786	226	Trave	80	6	3	200				0.00	-1.0		0.0	-353.3	0.0	353.293	200	8	0	598.0	621.7		242.5		0.0	1.04
Piano +0.40m - Trave PORTALE C2 appoggio (	350	1100	25	2	30	5	24	2	12	1451	2262	226	Trave	80	6	5	200	1		1b16	42.68	#####		42.7	-1049.0	0.0	0.987	75	8	43	871.2	893.9		645.5		0.0	1.03
Piano +0.40m - Trave PORTALE C2 appoggio (	350	1100	25	2	30	5	24	2	12	1451	2262	226	Trave	80	6	5	200	1			0.00	1.0		0.0	1188.1	0.0	######	75	8	0	871.2	886.4		641.6		0.0	1.02
Solaio Tipo - Trave T201 - appoggio (M+)	540	240	25	1	13	1	17			127	231	0	Trave	60	6	3	200			1b16	1.07	26.7		1.1	61.7	0.0	2.314	250	8	0	59.0	142.2		232.8		0.0	2.41
Solaio Tipo - Trave T201 - appoggio (M-)	540	240	25	1	13	1	17			127	231	0	Trave	60	6	3	200			1b20	1.07	-68.2		1.1	-74.7	0.0	1.095	250	8	1	59.0	142.2		232.9		0.0	2.41
Solaio Tipo - Trave T201 - mezzeria (M+)	540	240	25	1	8	1	22			50	385	0	Trave								1.10	20.1		1.1	32.1	0.0	1.596	250	8	1		72.7		173.5		0.0	-
Solaio Tipo - Trave T201 - mezzeria (M-)	540	240	25	1	8	1	22			50	385	0	Trave								0.00	-1.0		0.0	-6.0	0.0	5.965	250	8	0		72.7		173.4		0.0	-
Solaio Tipo - Trave T202 - appoggio (M+)	540	240	25	1	13	1	17			127	231	0	Trave	60	6	3	200			1b12	4.26	23.7		4.3	46.3	0.0	1.953	250	8	4	12.1	142.2		233.3		0.0	11.77
Solaio Tipo - Trave T202 - appoggio (M-)	540	240	25	1	13	1	17			127	231	0	Trave	60	6	3	200			1b20	4.41	-61.5		4.4	-74.9	0.0	1.217	250	8	4	55.9	142.2		233.3		0.0	2.54
Solaio Tipo - Trave T202 - mezzeria (M+)	540	240	25	1	8	1	22			50	385	0	Trave								7.00	18.4		7.0	32.6	0.0	1.777	250	8	7	55.9	72.7		174.0		0.0	1.30
Solaio Tipo - Trave T202 - mezzeria (M-)	540	240	25	1	8	1	22			50	385	0	Trave								7.00	-1.0		7.0	-6.6	0.0	6.613	250	8	7	55.9	72.7		174.0		0.0	1.30
Solaio Tipo - Trave T203 - appoggio (M+)	540	240	25	1	14	1	14			154	154	0	Trave	60	6	3	200			1b16	0.33	46.5		0.3	56.6	0.0	1.219	250	8	0	81.5	142.2		232.8		0.0	1.75
Solaio Tipo - Trave T203 - appoggio (M-)	540	240	25	1	14	1	14			154	154	0	Trave	60	6	3	200			1b20	0.33	-65.1		0.3	-75.0	0.0	1.152	250	8	0	81.5	142.2		232.8		0.0	1.75
Solaio Tipo - Trave T203 - mezzeria (M+)	540	240	25	1	14	1	14			154	154	0	Trave	60	6	3	200				0.00	1.0		0.0	15.9	0.0	15.886	250	8	0	81.5	142.2		232.8		0.0	1.75
Solaio Tipo - Trave T203 - mezzeria (M-)	540	240	25	1	14	1	14			154	154	0	Trave	60	6	3	200				0.00	-1.0		0.0	-15.9	0.0	15.886	250	8	0	81.5	142.2		232.8		0.0	1.75
Solaio Tipo - Trave T204 - appoggio (M+)	850	240	25	2	15	3	16			358	603	0	Trave	60	6	3	250	1			0.00	1.0		0.0	57.7	0.0	57.671	250	8	9	157.0	183.9		366.1		0.0	1.17
Solaio Tipo - Trave T204 - appoggio (M-)	850	240	25	2	15	3	16			358	603	0	Trave	60	6	3	250	1		1b20	-8.66	-103.0		-8.7	-101.2	0.0	0.983	250	8	9	157.0	183.9		366.1		0.0	1.17
Solaio Tipo - Trave T204 - mezzeria (M+)	850	240	25	2	10	6	16			157	1206	0	Trave								-8.66	52.0		-8.7	91.4	0.0	1.758	250	8	-9		72.7		277.8		0.0	-
Solaio Tipo - Trave T204 - mezzeria (M-)	850	240	25	2	10	6	16			157	1206	0	Trave								0.00	-1.0		0.0	-15.7	0.0	15.660	250	8	0		72.7		277.8		0.0	-
Solaio Tipo - Trave T205 - appoggio (M+)	850	240	25	2	15	3	16			358	603	0	Trave	60	6	3	250	1			0.00	1.0		0.0	57.7	0.0	57.671	250	8	8	147.1	183.9		366.1		0.0	1.25
Solaio Tipo - Trave T205 - appoggio (M-)	850	240	25	2	15	3	16			358	603	0	Trave	60	6	3	250	1		1b20	8.32	-91.0		8.3	-102.7	0.0	1.129	250	8	8	147.1	183.9		366.1		0.0	1.25
Solaio Tipo - Trave T205 - mezzeria (M+)	850	240	25	2	10	6	16			157	1206	0	Trave								8.32	45.8		8.3	92.8	0.0	2.028	250	8	8		72.7		278.5		0.0	-
Solaio Tipo - Trave T205 - mezzeria (M-)	850	240	25	2	10	6	16			157	1206	0	Trave								0.00	-1.0		0.0	-15.7	0.0	15.660	250	8	0		72.7		277.8		0.0	-
Solaio Tipo - Trave T206 - appoggio (M+)	850	240	25	2	13	2	12			270	226	0	Trave	60	6	3	250	1		1b16	2.02	59.1		2.0	66.7	0.0	1.128	250	8	3	34.6	183.9		365.4		0.0	5.32
Solaio Tipo - Trave T206 - appoggio (M-)	850	240	25	2	13	2	12			270	226	0	Trave	60	6	3	250	1		1b16	0.80	-66.1		0.8	-70.5	0.0	1.067	250	8	1	112.0	183.9		365.2		0.0	1.64
Solaio Tipo - Trave T206 - mezzeria (M+)	850	240	25	2	10	4	12			157	452	0	Trave								0.80	24.2		0.8	39.1	0.0	1.617	250	8	1		72.7		277.8		0.0	-
Solaio Tipo - Trave T206 - mezzeria (M-)	850	240	25	2	10	4	12			157	452	0	Trave								0.00	-1.0		0.0	-15.7	0.0	15.672	250	8	0		72.7		277.8		0.0	-
Solaio Tipo - Trave T207 - appoggio (M+)	540	240	25	1	14	1	20			151	302	0	Trave	60	6	3	200			1b12	-0.58	31.0		-0.6	51.4	0.0	1.658	250	8	0	74.0	142.2		232.8		0.0	1.92
Solaio Tipo - Trave T207 - appoggio (M-)	540	240	25	1	14	1	20			151	302	0	Trave	60	6	3	200			1b20	0.21	-77.9		0.2	-77.4	0.0	0.994	250	8	0	23.0	142.2		232.8		0.0	6.20
Solaio Tipo - Trave T207 - mezzeria (M+)	540	240	25	1	8	1	25			50	503	0	Trave								2.30	29.5		2.3	40.6	0.0	1.376	250	8	2		72.7		173.6		0.0	-
Solaio Tipo - Trave T207 - mezzeria (M-)	540	240	25	1	8	1	25			50	503	0	Trave								0.00	-1.0		0.0	-6.0	0.0	5.987	250	8	0		72.7		173.4		0.0	-
Solaio Tipo - Trave T208 - appoggio (M+)	540	240	25	1	14	1	20			151	302	0	Trave	60	6	3	200				2.18	25.1		2.2	29.5	0.0	1.175	250	8	2	25.7	142.2		233.0		0.0	5.53
Solaio Tipo - Trave T208 - appoggio (M-)	540	240	25	1	14	1	20			151	302	0	Trave	60	6	3	200			1b20	2.18	-71.9		2.2	-77.5	0.0	1.077	250	8	2	71.2	142.2		233.0		0.0	2.00
Solaio Tipo - Trave T208 - mezzeria (M+)	540	240	25	1	8	1	25			50	503	0	Trave								3.80	27.0		3.8	40.7	0.0	1.507	250	8	4		72.7		173.7		0.0	-
Solaio Tipo - Trave T208 - mezzeria (M-)	540	240	25	1	8	1	25			50	503	0	Trave								0.00	-1.0		0.0	-6.0	0.0	5.987	250	8	0		72.7		173.4		0.0	-
Solaio Tipo - Trave T209 - appoggio (M+)	250	500	25	2	12	2	12			214	226	0	Trave	60	6	3	200			1b12	2.86	56.3		2.9	102.0	0.0	1.810	100	6	4	13.6	102.7		169.9	3.0	7.8	2.63
Solaio Tipo - Trave T209 - appoggio (M-)	250	500	25	2	12	2	12			214	226	0	Trave	60	6	3	200			1b12	0.28	-94.8		0.3	-98.9	0.0	1.043	100	6	1	67.2	203.1		169.4	3.0	9.5	2.15
Solaio Tipo - Trave T209 - mezzeria (M+)	250	500	25	2	8	3	12			101	339	0	Trave								-3.58	29.4		-3.6	65.0	0.0	2.209	250	8	1	29.8	72.1		76.1	3.0	7.8	2.42
Solaio Tipo - Trave T209 - mezzeria (M-)	250	500	25	2	8	3	12			101	339	0	Trave								0.00	-1.0		0.0	-22.2	0.0	22.220	250	8	0	29.8	72.1		76.1	3.0	7.8	2.42
Interrato - Trave T7/8 - appoggio (M+)	300	890	25	2	10	3	12	2	12	157	339	226	Trave	60	6	3	200			1b12	-15.70	252.0		-15.7	271.9	0.0	1.079	250	8	5	48.5	438.9		181.9		0.0	9.05
Interrato - Trave T7/8 - appoggio (M-)	300	890	25	2	10	3	12	2	12	157	339	226	Trave	60	6	3	200			1b16	14.69	-295.3		14.7	-293.2	0.0	0.993	250	8	5	48.5	438.9		181.9		0.0	9.05
Interrato - Trave T7/8 - mezzeria (M+)	300	890	25	2	10	3	12	2	12	157	339	226	Trave								14.69	44.1		14.7	198.1	0.0	4.490	250	8	-1	48.5	292.6		93.0		0.0	6.03
Interrato - Trave T7/8 - mezzeria (M-)	300	890	25	2	10	3	12	2	12	157	339	226	Trave								0.00	-1.0		0.0	-142.1	0.0	142.066	250	8	0	48.5	292.6		93.0		0.0	6.03
Interrato - Trave T3 - appoggio (M-)	400	500	25	2	14	4	16			308	804	0	Trave	60	6	3	200			1b12	-25.31	-93.0		-25.3	-114.1	0.0	1.226	250	8	-12	102.2	170.7		248.1	11.3	27.6	1.61
Interrato - Trave T3 - mezzeria (M+)	400	500	25	2	14	7	16			308	1407	0	Trave								-25.31	80.3		-25.3	236.4	0.0	2.943	250	8	-12	35.9	54.4		126.9	11.3	29.8	1.05
Interrato - Trave T2 - appoggio (M-)	300	500	25	2	14	2	14			308	308	0	Trave								-4.54	-55.5		-4.5	-62.2	0.0	1.121	250	8	-9	57.6	70.3		93.0	7.3	12.6	1.70
Interrato - Trave T2 - mezzeria (M+)	300	500	25	2	10	3	14			157	462	0	Trave								-18.28	12.3		-18.3	85.3	0.0	6.923	250	8	-9	29.8	46.1		93.0	7.3	12.7	1.55
Piano +0.40m - Trave T105 - appoggio (M-)	300	500	25	2	15	2	16			353	402	0	Trave	60	6	3	200				-0.96	-75.8		-1.0	-75.8	0.0	1.000	250	8	5	75.8	248.1		181.9	0.3	1.7	3.18
Piano +0.40m - Trave T105 - mezzeria (M+)	300	500	25	2	10	5	16			157	1005	0	Trave								-6.84	46.4		-6.8	169.6	0.0	3.655	250	8	5	30.8	147.9		93.0	0.3	2.5	6.08
Piano +0.40m - Trave T106 - appoggio (M-)	500	200	25	4	9	3	14			254	462	0	Trave	60	6	3	200			1b12	0.00	-25.7		0.0	-37.3	0.0	1.454	250	8	1	36.4	76.0		164.0	3.3	10.6	1.86
Piano +0.40m - Trave T106 - mezzeria (M+)	500	200	25	2	8	5	14			101	770	0	Trave								7.84	11.5		7.8	46.3	0.0	4.016	250	8	1	17.0	34.7		133.0	3.3	11.0	1.31
Solaio Tipo - Trave T210 - appoggio (M-)	200	500	25	6	8	3	16			302	603	0	Trave	60	6	3	200			1b12	7.27	-87.5		7.3	-118.9	0.0	1.360	250	8	7	35.3	155.3		115.8	1.8	14.2	2.85
Solaio Tipo - Trave T210 - appoggio (M+)	200	500	25	6	8	3	16			302	603	0	Trave								-0.58	70.1		-0.6	110.2	0.0	1.571	250	8	-1		143.6		59.2		0.0	-
Solaio Tipo - Trave T210 - mezzeria (M+)	200	500	25	2	8	6	16			101	1206	0	Trave								9.56	7.1		9.6	183.8	0.0	25.920	250	8	7	26.6	79.2		59.2	1.8	10.5	2.92
Solaio Tipo - Trave T212 - appoggio (M-)	400	500	25	2	14	3	16			308	603	0	Trave	60	6	3	200			1b12	-1.15	-79.8		-1.2	-119.3	0.0	1.495	250	8	-2	47.7	150.5		248.1	6.8	22.6	3.05
Solaio Tipo - Trave T212 - mezzeria (M+)	400	500	25	2	10	6	16			157	1206	0	Trave								1.96	19.6		2.0	207.1	0.0	10.576	250	8	-2	26.4	55.9		126.9	6.8	28.0	1.54
Solaio Sottotetto - Trave T301 - appoggio (M-)	300	750	25	2	10	2	12			157	226	0	Trave								-40.27	-5.8	-6.5	-40.3	-14.6	-16.2	2.509	250	8	-20	44.1	112.9		93.0	4.9	8.5	1.73
Solaio Sottotetto - Trave T301 - mezzeria (M+)	300	750	25	2	10	2	12			226	157	0	Trave								-40.27	40.7	4.2	-40.3	54.7	5.6	1.344	250	8	-20	29.9	90.0	3.6	93.0	4.9	8.5	1.73
Solaio Sottotetto - Trave T302 - appoggio (M-)	300	750	25	2	10	2	12			157	226	0	Trave	40	4						-37.00	-42.7		-37.0	-39.7	0.0	0.930	250	8	-41	44.1	143.1	2.2	93.0	3.0	8.5	2.84
Solaio Sottotetto - Trave T302 - mezzeria (M+)	300	750	25	2	10	2	12			157	226	0	Trave	60	6	3	200			1b16	-73.43	80.5	-0.4	-73.4	157.0	-0.7	1.949	250	8	-41	29.9	233.8	2.2	181.9	3.0	8.5	2.84
Solaio Sottotetto - Trave T303 - appoggio (M-)	300	750	25	2	10	2	10			157	157	0	Trave								2.42	-35.7		2.4	-53.6	0.0	1.502	250	8	5	68.4	245.3	7.3	93.0		0.0	3.59
Solaio Sottotetto - Trave T303 - mezzeria (M+)	300	750	25	2	10	2	10			157	157	0	Trave	60	6	3	200			1b16	-30.24	76.6	-8.9	-30.2	140.9	-16.4	1.840	250	8	5	61.9	374.0	7.3	181.9		0.0	6.04
Solaio Sottotetto - Trave T304 - appoggio (M-)	400	600	25	2	8	3	16			603	101	0	Trave	60	6	3	200			1b12	-80.45	-43.2	-3.7	-80.5	-68.8	-5.9	1.592	250	8	-70	212.4	359.7	1.0	248.1		0.0	1.69
Solaio Sottotetto - Trave T304 - mezzeria (M+)	400	600	25	2	8	4	16			804	101	0	Trave	60	6	3	200				-194.57	52.3	1.1	-194.6	81.2	1.7	1.552	250	8	-102	37.0	359.7	1.6	248.1		0.0	9.73
Solaio Sottotetto - Trave T305 - appoggio (M-)	600	190	25	4	9	2	14			254	308	0	Trave	60	6	3	200			1b12	-188.50	-4.8	-9.3	-188.5	-16.8	-32.2	3.475	250	8	-103	16.6	57.1	4.7	172.4	3.2	8.1	2.55
Solaio Sottotetto - Trave T305 - mezzeria (M+)	600	190	25	2	8	4	14			616	101	0	Trave	60	6	3	200				-177.52	3.2	-1.5	-177.5	7.0	-3.2	2.202	250	8	-103	10.5	44.6	4.7	156.3	3.2	10.3	3.25
Solaio Sottotetto - Capriata Ca - appoggio (M-)	250	400	25	3	18	4	18			1018	763	0	Trave	60	6	3	200				-75.93	-66.9	0.6	-75.9	-108.7	0.9	1.624	300	6	-47	97.0	156.8		108.4	0.1	0.4	1.60
Solaio Sottotetto - Capriata Ca - mezzeria (M+	250	400	25	4	18	4	18			1018	1018	0	Trave								-85.79	43.0	-0.3	-85.8	130.6	-0.9	3.036	300	6	-47	49.7	57.6		48.6	0.1	0.3	1.16
Solaio Sottotegola - Capriata Ca - appoggio (M	250	450	25	3	12	3	14			462	339	0	Trave	60	6	3	200				86.95	-89.6	0.5	87.0	-75.8	0.4	0.846	250	6	87	88.6	188.9		115.5	0.2	0.9	2.08
Solaio Sottotegola - Capriata Ca - mezzeria (M	250	450	25	3	12	4	14			339	616	0	Trave								118.91	57.1	-0.5	118.9	101.1	-0.9	1.770	250	6	70	31.1	80.9		50.7		0.0	2.60

Figura 35 - Verifica travi ad ogni piano