QUADRILATERO Marche Umbria S.p.A.

ASSE VIARIO MARCHE-UMBRIA E QUADRILATERO DI PENETRAZIONE INTERNA MAXI LOTTO 2

LAVORI DI COMPLETAMENTO DELLA DIRETTRICE PERUGIA ANCONA:
SS. 318 DI "VALFABBRICA", TRATTO PIANELLO -VALFABBRICA
SS. 76 "VAL D'ESINO", TRATTI FOSSATO VICO - CANCELLI E ALBACINA - SERRA SAN QUIRICO
"PEDEMONTANA DELLE MARCHE", TRATTO FABRIANO-MUCCIA-SFERCIA.

PROGETTO ESECUTIVO DI DETTAGLIO

CONTRAENTE GENERALE:	*Il responsabile del Contraente Generale:*	*Il responsabile Integrazioni delle Prestazioni Specialistiche:*
DIRPA 2 s.c.a r.l.	Firmato digitalmente da FEDERICO MONTANARI Data e ora della firma: 26/11/2020 14:34:28 Ing. Federico Montanari	Firmato digitalmente da: LIETO SALVATORE Data: 26/11/2020 15:20:58 Ing. Salvatore Lieto

PROGETTAZIONE: *Associazione Temporanea di Imprese*

Mandataria: PROGETTAZIONE GRANDI INFRASTRUTTURE PROGIN S.p.A.

Mandanti: LOMBARDI SA INGEGNERI CONSULENTI; LOMBARDI-REICO INGEGNERIA S.r.l.; SGAI s.r.l. di E.Forlani & C. Studio di Ingegneria e Geologia Applicata — www.sgai.com

RESPONSABILE DELLA PROGETTAZIONE PER L'A.T.I.	
GRIMALDI ANTONIO 29.10.2020 10:46:10 UTC Ing. Antonio Grimaldi ORDINE DEGLI INGEGNERI DELLA PROVINCIA DI ROMA — Dott. Ing. ANTONIO GRIMALDI N° 20860	

VISTO: IL RESPONSABILE DEL PROCEDIMENTO	IL COORDINATORE DELLA SICUREZZA IN FASE DI ESECUZIONE	IL DIRETTORE DEI LAVORI
Ing. Giulio Petrizzelli	Ing. Salvatore Chirico	Ing. Peppino Marascio

2.1.1. - PEDEMONTANA DELLE MARCHE

Lotto funzionale del Sub lotto 2.1 - Tratto Fabriano - Matelica Nord

OPERE D'ARTE MINORI: OPERE DI ATTRAVERSAMENTO

Sistemazione viabilità interferita al km 5+641 - Tombino Ø 800 mm a Pr. 0+427,70

Relazione di calcolo

SCALA: *1:100/50*

DATA: *Luglio 2018*

Codice Unico di Progetto (CUP) **F12C03000050021** (Assegnato CIPE 20-04-2015)

Codice elaborato:

Opera	Tratto	Settore	CEE	WBS	Id. doc.	N. prog.	Rev.
L0703	211	E	11	CS5007	REL	04	A

REV.	DATA	DESCRIZIONE	Redatto		Controllato	Approvato
A	Luglio 2018	Emissione PED	TECNOSTRUTTURE	A. TOSIANI	S. LIETO	A. GRIMALDI

I N D I C E

1. INTRODUZIONE

La presente relazione riporta i calcoli, e le relative verifiche, delle strutture di imbocco e sbocco del tombino circolare previsto al km. 0+427,70 della viabilità interferita al km 5+641, nell'ambito dei Lavori di completamento della direttrice Perugia - Ancona, Lotto della Pedemontana Marche: Tratto Fabriano - Muccia - Sfercia.

In accordo alle disposizioni dettate dalle “Norme tecniche per le costruzioni” (DM 14.09.2005), sono state effettuate le verifiche agli stati limite di esercizio (SLE) e agli stati limite ultimi (SLU).

Secondo la normativa tecnica in vigore, ai fini della zonazione sismica del territorio italiano (O.P.C.M. 20.03.2003), l’area in oggetto ricade in zona sismica di categoria 2. Pertanto, per strutture di classe 2 (vita utile di 100 anni, sisma con periodo di ritorno di 1000 anni) l’accelerazione orizzontale utilizzata, come da relazione sismica, è pari a ag =0.275g (relazione sismica L073211E04000000REL01D par. 5) con suolo di categoria E. A tale accelerazione si è fatto riferimento nei calcoli di verifica riportati nel seguito.

Per la descrizione delle opere si faccia riferimento agli elaborati grafici di progetto da considerarsi parte integrante della presente.

In coda alla relazione è riportato, negli Allegati, il file di input e output delle analisi svolte.

1.1 IPOTESI DI CALCOLO

Per il calcolo delle strutture si è proceduto ad un’analisi con l’ausilio del programma di calcolo automatico agli elementi finiti SAP2000.

Considerata la geometria della struttura dell’imbocco, per il calcolo delle sollecitazioni si è assunto uno schema di calcolo a piastra incastrata su tre lati e libera in testa:

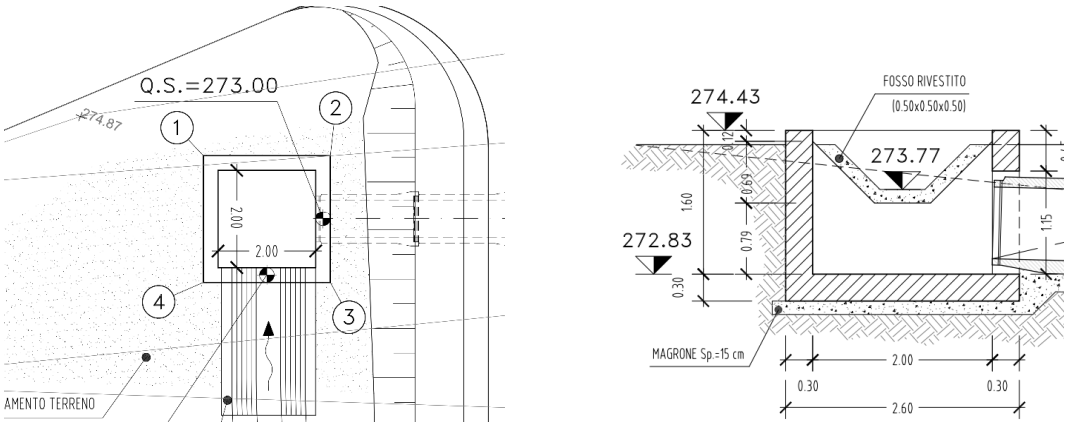


Figura 1: Pianta e sezione vasca di imbocco

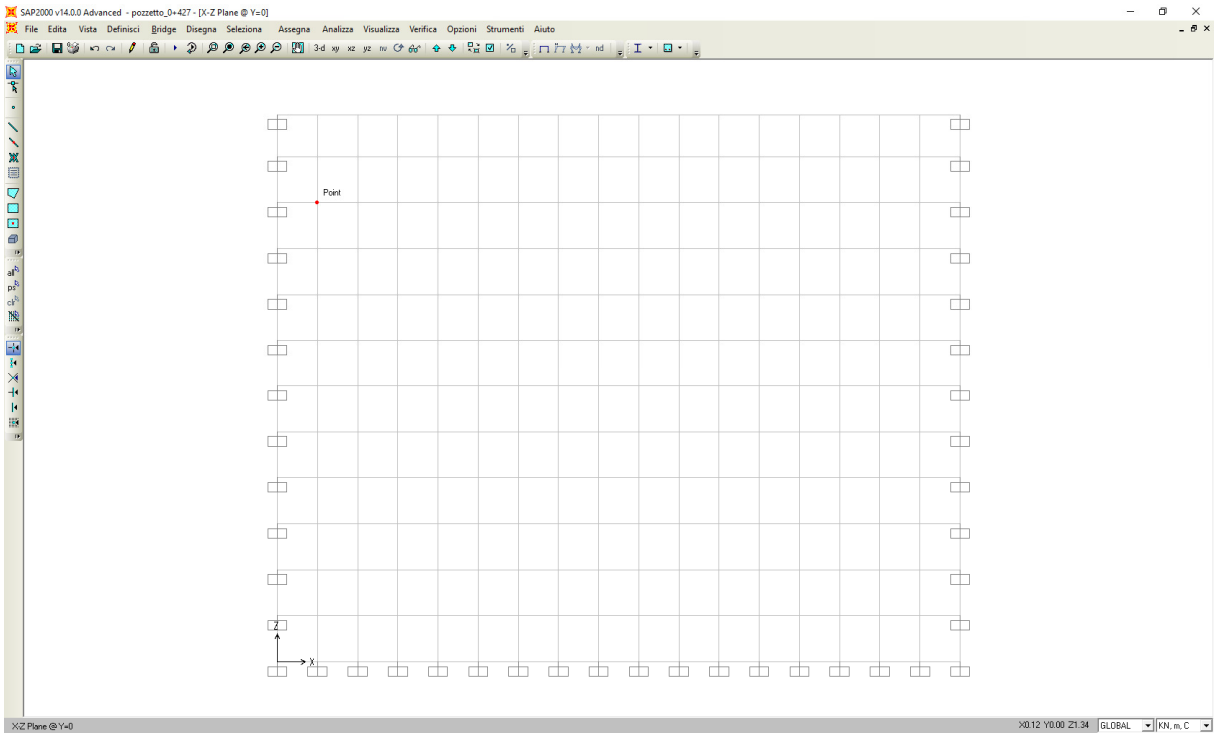


Figura 2: Modello di calcolo

Lo sbocco è costituito da un muro di sostegno del rilevato stradale la cui altezza media dallo spiccato è pari a 2.90 m:

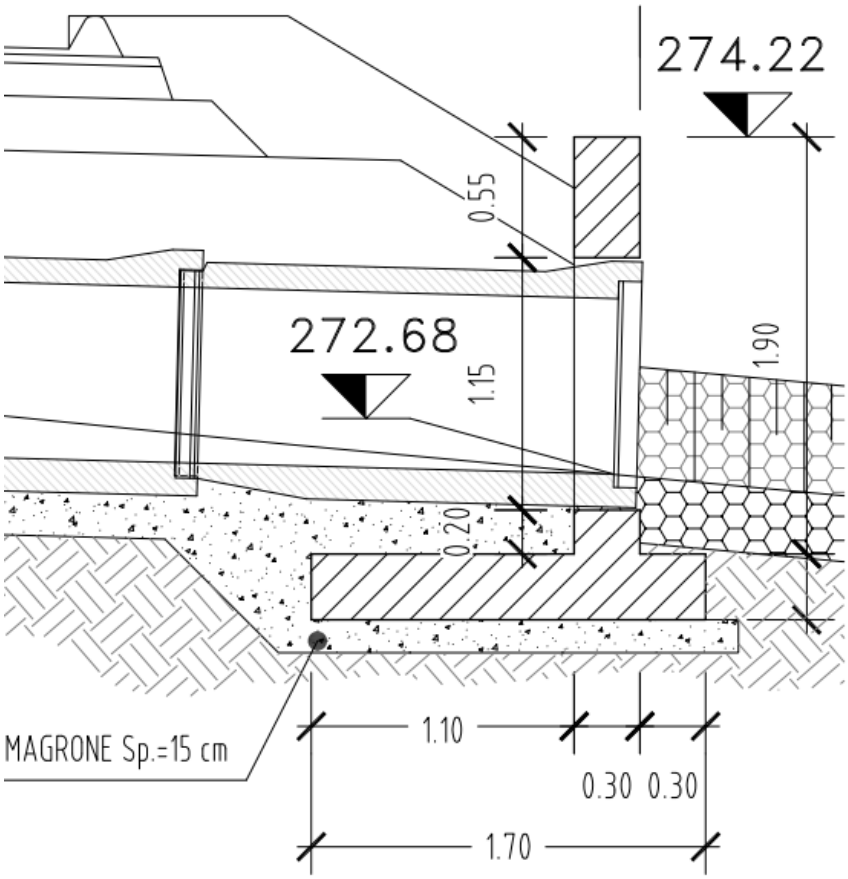


Figura 3: Sezione Muro di sostegno

2. DOCUMENTI DI RIFERIMENTO

Nella esecuzione dei calcoli si è fatto riferimento ai seguenti documenti normativi.

2.1 NORMATIVE DI CARATTERE GENERALE

L. 05/11/1971 n. 1086: "Norme per la disciplina delle opere in conglomerato cementizio armato normale e precompresso ed a struttura metallica";

L. 02/02/1974 n. 64: "Provvedimenti per le costruzioni con particolari prescrizioni per le zone sismiche";

2.2 NORMATIVE SPECIFICHE PER LE STRUTTURE

Decreto Ministeriale 14 settembre 2005 "Norme Tecniche per le Costruzioni".

OPCM 3274 d.d. 20/03/2003: "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e successive modifiche ed integrazioni

CNR–UNI 10011: "Costruzioni di acciaio "Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione".

CNR-UNI 10016:"Travi composte di acciaio e calcestruzzo - Istruzioni per l'impiego nelle costruzioni".

UNI EN 1992-2005:"Progettazione delle strutture di calcestruzzo".

UNI EN 1993-2005: "Progettazione delle strutture di acciaio".

UNI EN 1994-2005: "Progettazione delle strutture composte acciaio-calcestruzzo".

UNI EN 1997-2005: "Progettazione geotecnica".

UNI EN 1998-2005: "Progettazione delle strutture per la resistenza sismica".

UNI EN 206-1-2001: Calcestruzzo: "Specificazione, prestazione, produzione e conformità".

3. MATERIALI

Per la realizzazione delle sottostrutture sono stati previsti i seguenti materiali.

Calcestruzzi

I materiali da utilizzare avranno le seguenti caratteristiche:

Tab.1 - FONDAZIONI ed ELEVAZIONI

		Classe di esposizione
		XA2
Classe di resistenza minima:	C_{min}	C32/40
Rapporto massimo acqua/cemento	a/max	0.5
Contenuto minimo di cemento (kg/m^3)	cem $_{min}$	360

Tab.2 - CALCESTRUZZO PER MAGRONE

Classe di resistenza minima:	C_{min}	C12/15

Acciaio per armature

Tab.3 - ACCIAIO ARMATURA ORDINARIA

Acciaio in barre ad aderenza migliorata tipo B450C

controllato in stabilimento:

Tensione caratteristica di snervamento: f_{yk} = 450 MPa

Per la realizzazione dei calcestruzzi, al fine di assicurare i requisiti di qualità e di durabilità, si è fatto riferimento alle specifiche riportate nella norma UNI EN 206-1. pertanto sulla base delle condizioni ambientali prevedibili per le opere in oggetto si riporta nella tabella seguente, in corrispondenza di ogni elemento strutturale, la classe di esposizione, la resistenza caratteristica Rck ,il rapporto a/c massimo, il quantitativo di cemento minimo, e l'eventuale percentuale di aria che deve essere inglobata nel calcestruzzo.

Sono previsti inoltre copriferri pari a:

40 mm per le fondazioni e superfici controterra in genere.

Le caratteristiche meccaniche del calcestruzzo in opera sono state valutate conformemente alle specifiche previste dal Decreto Ministeriale 14 settembre 2005, pertanto nella tabella seguente vengono riportati i valori assunti per il modulo elastico e per le resistenze allo stato limite ultimo e di esercizio

CARATTERISTICHE MECCANICHE CALCESTRUZZI				
f_{ck}/R_{ck} (Mpa)	Ec (Mpa)	S.L.U		S.L.E
		$f_{cd}=R_{ck}/\gamma_{m,c}$ (Mpa)	$f_{ctd}=f_{ctk}/\gamma_{m,c}$ (Mpa)	$\sigma_c=R_{ck}/(\gamma_{m,c}x\gamma_{E,c})$ (Mpa)
C32/40	33000	21.05	2.45	19.2 (rara) 14.8 (quasi permanente)

Le caratteristiche meccaniche adottate per l'acciaio sono:

CARATTERISTICHE MECCANICHE ACCIAIO PER C.A.					
TIPO	Ec (Mpa)	f_{tk} (Mpa)	f_{yk} (Mpa)	S.L.U	S.L.E
				$f_{yd} = f_{yk}/\gamma_{m,s}$ (Mpa)	$\sigma_{smax}=f_{yk}/1.25$ (Mpa)
B450C	210000	540	450	391	360

4. PARAMETRI GEOTECNICI DEL TERRENO

Nel calcolo dell'opera in oggetto, per quanto riguarda la determinazione della spinta delle terre, della capacità portante del terreno e delle caratteristiche di interazione terreno-struttura, si adottano, a favore di sicurezza, i seguenti parametri geotecnici ricavati dalla "Relazione geotecnica generale sulle opere all'aperto e gallerie artificiali (geotecnica-geomeccanica)" doc.
L0703211E02GE0000REL02M.doc, da tale relazione si ha:

Strato di rinfianco (RILEVATO)

Descrizione	Terreno di rinfianco	
Spessore dello strato	2.00	[m]
Peso di volume	20.0000	[kN/mc]
Peso di volume saturo	20.0000	[kN/mc]
Angolo di attrito (ϕ')	35.00	[°]
Angolo di attrito terreno struttura (0.5ϕ')	17.50	[°]
Coesione	0.000	[KPa]

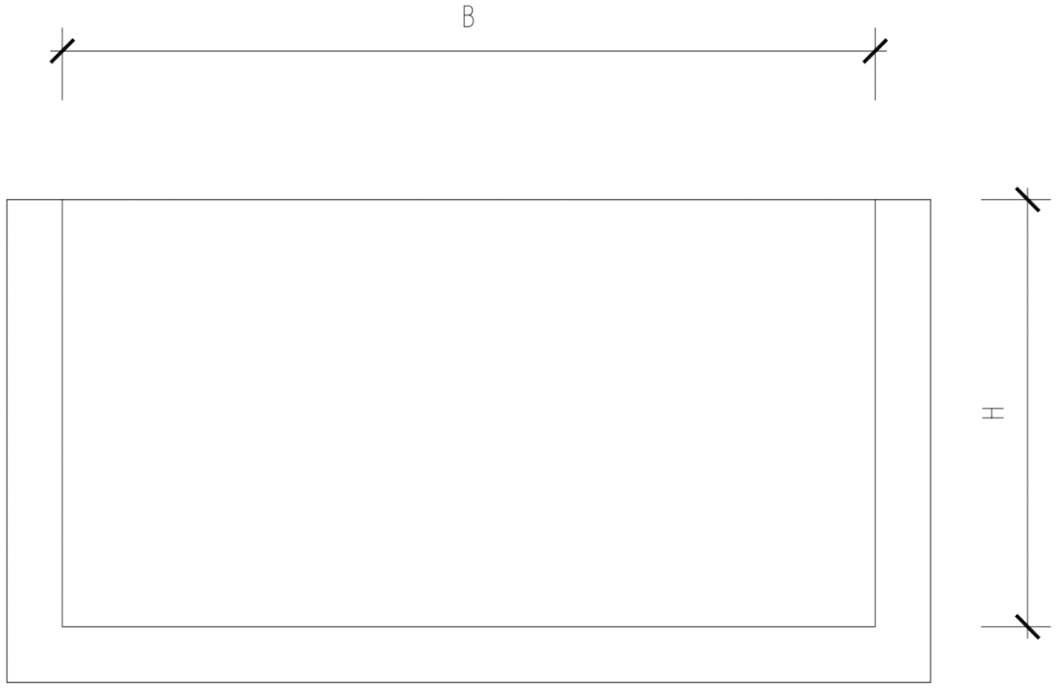
Strato di base (EC 2)

Descrizione	Terreno di base	
Peso di volume	19.0000	[kN/mc]
Peso di volume saturo	19.0000	[kN/mc]
Angolo di attrito (ϕ')	24.50	[°]
Angolo di attrito terreno-struttura (tanϕ')	24.50	[°]
Coesione	10.000	[kPa]

Per il calcolo della spinta sulla vasca si è considerato il coefficiente di spinta a riposo, k_o. Sul muro di sostegno si adotta il coefficiente di spinta attiva k_a.
La falda non interferisce con l'opera.

5. GEOMETRIA DELLA VASCA D' IMBOCCO

Sezione lungo l'asse della parete della vasca di imbocco:

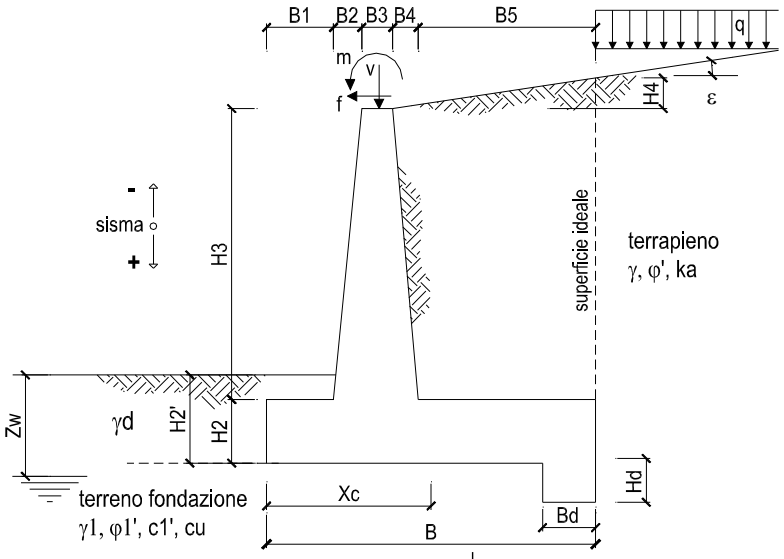


Geometria piastra

Altezza [H]	1.60	[m]
Larghezza [B]	2.00	[m]
Spessore [s]	0.30	[m]

6. GEOMETRIA DEL MURO DI SOSTEGNO

Sezione trasversale muro:



OPERA Hmuro = 1.90 m

DATI DI PROGETTO:

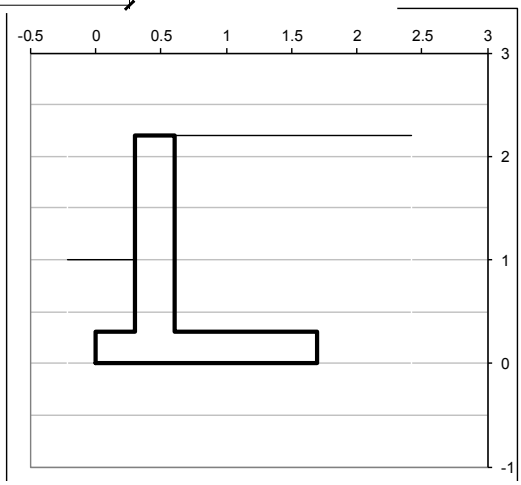
Geometria del Muro

Elevazione	H3 =	1.90	(m)
Aggetto Valle	B2 =	0.00	(m)
Spessore del Muro in Testa	B3 =	0.30	(m)
Aggetto monte	B4 =	0.00	(m)

Geometria della Fondazione

Larghezza Fondazione	B =	1.70	(m)
Spessore Fondazione	H2 =	0.30	(m)
Suola Lato Valle	B1 =	0.30	(m)
Suola Lato Monte	B5 =	1.10	(m)
Altezza dente	Hd =	0.00	(m)
Larghezza dente	Bd =	0.00	(m)
Mezzeria Sezione	Xc =	0.85	(m)

Peso Specifico del Calcestruzzo	γcls =	25.00	(kN/m^3)



7. CALCOLO DELLA VASCA D' IMBOCCO

7.1 AZIONE SISMICA

Le strutture, ai sensi della normativa di riferimento, sono assunte di Classe 2 (vita utile 100 anni).

Tutte le azioni sono calcolate considerando un periodo di ritorno per i fenomeni naturali pari a 1000 anni, pertanto nella valutazione della accelerazione orizzontale massima ag si è fatto riferimento alle mappe di pericolosità sismica dell'I.N.G.V. (Istituto Nazionale di Geofisica e Vulcanologia) andando a considerare il parametro ag/g riferito a una probabilità di superamento non maggiore del 5% in 50 anni, come previsto dal paragrafo 3.2.2.3 del D.M.14/09/05.

La tabella sottostante riporta i valori considerati per la zona in esame

Zona sismica	2
Categoria suolo di fondazione	E
Classe della struttura	2
Accelerazione orizzontale massima convenzionale per zona 2 e struttura di classe 2 (vedi par. 3.2.2.3)	0.275g
Fattore S che tiene conto della categoria del suolo di fondazione = E	1.25

In definitiva l'accelerazione orizzontale massima convenzionale per zona 2, struttura di classe 2 e suolo di categoria E = 0.275 g x 1.25 = 0.344 g.

Incremento sismica sul terreno

Visto la tipologia d'opera per il coefficiente di spinta si può assumere una spinta a riposo con:

$k_o = 1-\sin \phi = 0.426$ con $\phi = 35°$

Mentre l'incremento di spinta sismica del terreno si calcola con l'espressione di Wood:

$\Delta S = ag/g*S*\gamma*H^2 = 0.275*1.25*20*1.60^2 = 17.6$ kN

Da cui:

$Ps = \Delta S/H = 17.6/1.60 = 11.0$ kN/m^2

dove:

γ = peso di volume del terreno;

H = dislivello tra la quota del piano campagna e la quota di fondo scavo;

ΔS = incremento sismico del terreno

Forze di inrzia sismiche

Essendo:

$a_g/g = 0.275$

$S = 1.25$

i due coefficienti sismici orizzontale e verticale da applicare sulle masse strutturali sono pari a:

$k_h = a_g/g*S/r = 0.344$ $k_v = \pm 0.5* k_h = 0.172$

7.2 CALCOLO DELLE SPINTE STATICHE

Spinta del terreno e dell'accidentale

Sulle piastre, in esercizio, viene presa in considerazione la spinta del terreno a riposo e di un accidentale pari a 20 kN/m^2 dovuto al transito del veicolo stradale.

In sismica, come detto in precedenza, viene considerata la forza d'inerzia orizzontale e l'incremento di spinta sismica del terreno mentre il carico accidentale viene assunto nuillo.

Spinta del terreno sui piedritti

I parametri geotecnica del terreno sono:

$\gamma = 20$ kN/m^3

$\phi = 35°$

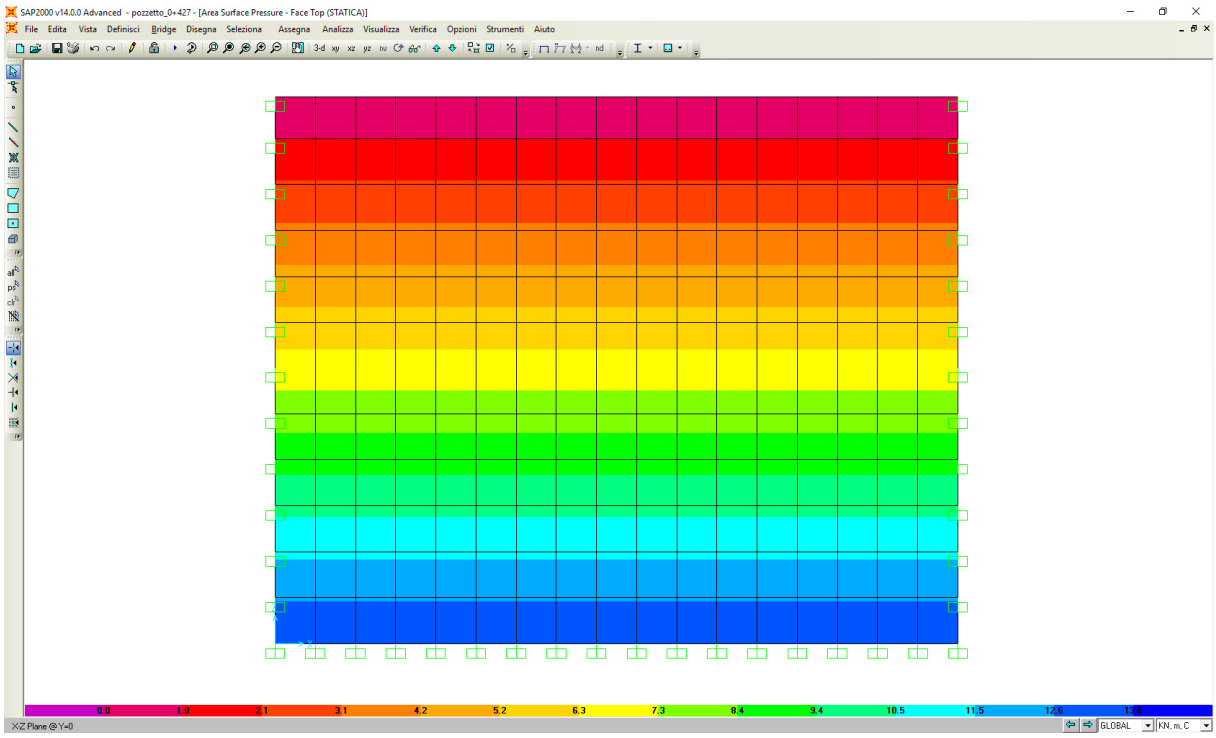
Ko = 0.426

Pertanto la spinta del terreno sulle pareti è pari a:

Esercizio (solo terreno)

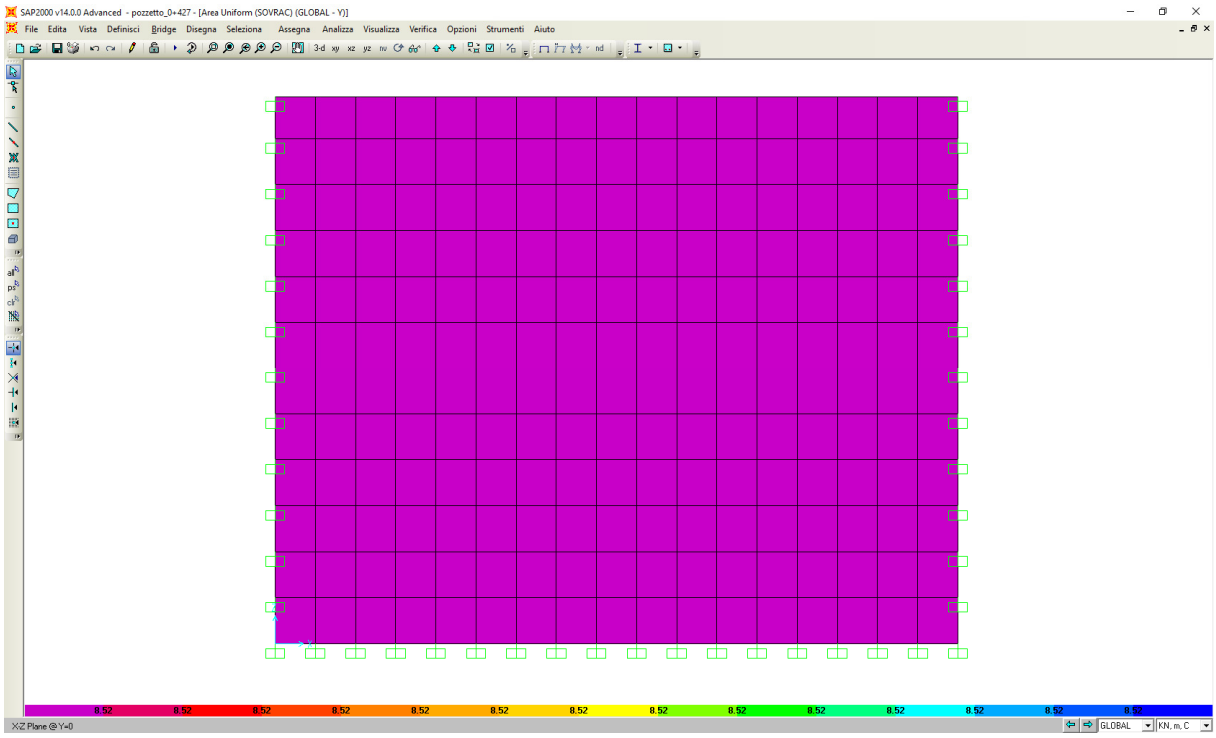
Po = 0.426*20.00*0.00 = 0.00 kN/m^2

P1 = 0.426*20.00*1.60 = 13.64 kN/m^2



Esercizio (solo accidentale)

Pripartito = 20*0.426 = 8.52 kN/m^2

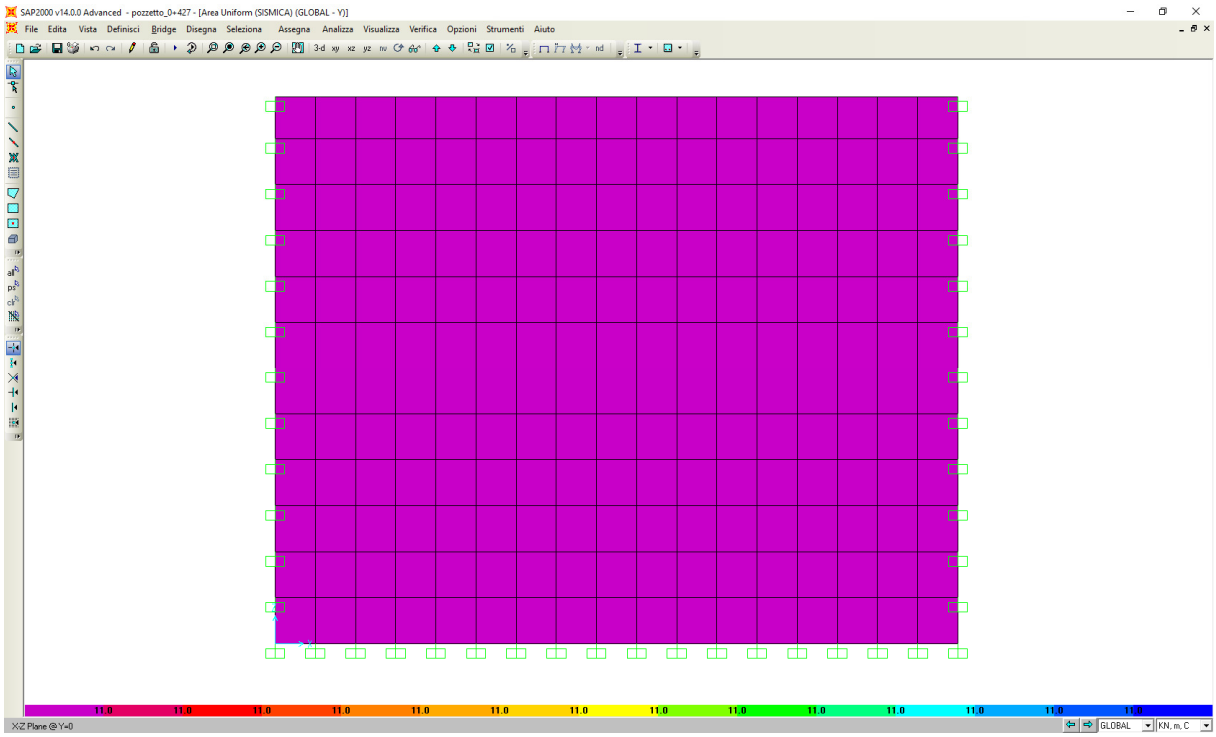


Sismica

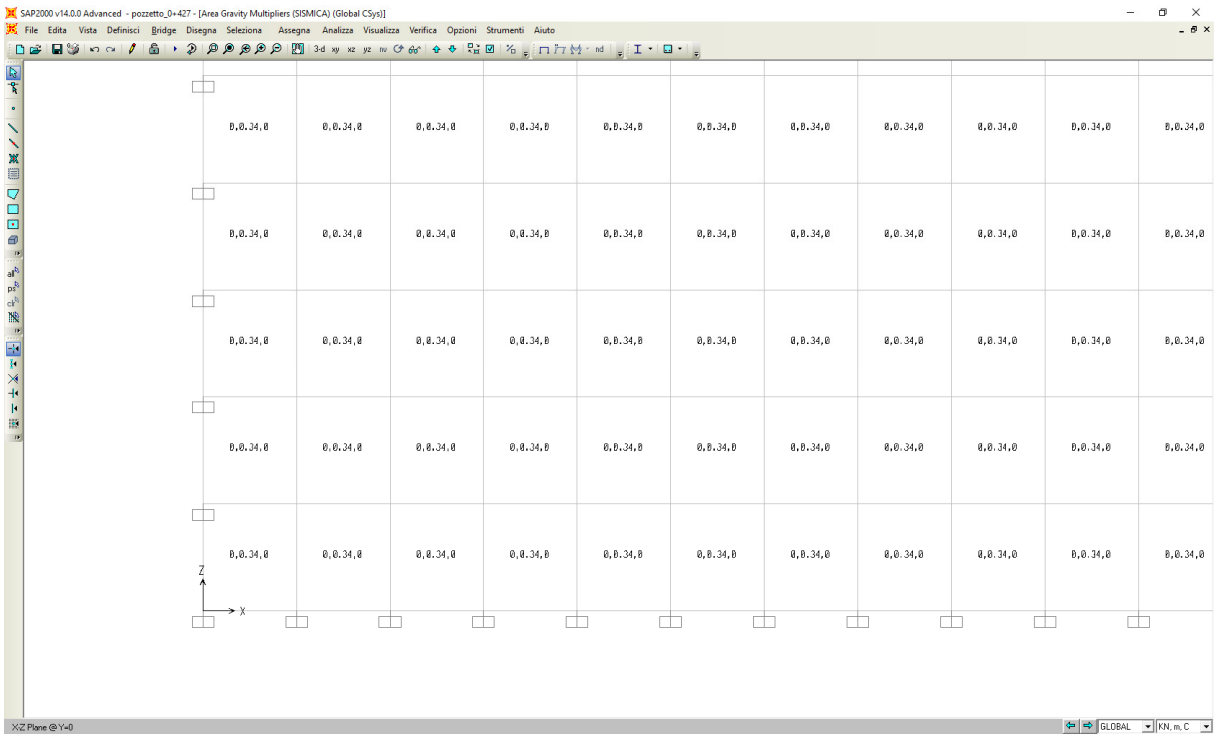
$\Delta S = 17.6$ kN/m^2 - incremento di spinta del terreno

$Ps = \Delta S/H = 17.6/1.60 = 11.00$ kN/m^2 - applicata a H/2

$F_{h,\ orizz} = 0.344*W$ -Azione inerziale su W viene calcolato automaticamente dal programma



Incremento di spinta sismica



Moltiplicatori gravitazionali per le forze inerziali

7.3 COMBINAZIONI DI CARICO

Le combinazioni di carico, considerate ai fini delle verifiche, sono stabilite in modo da garantire la sicurezza in conformità a quanto prescritto al cap. 2 delle NT.

6.4.1 Combinazioni per la verifica allo SLU e SLE

Gli stati limite ultimi delle opere interrate si riferiscono allo sviluppo di meccanismi di collasso, determinati dalla mobilitazione della resistenza del terreno, e al raggiungimento della resistenza degli elementi strutturali che compongono l'opera.
Le verifiche agli stati limite ultimi devono essere eseguiti in riferimento ai seguenti stati limite:
- SLU di tipo geotecnico (GEO) e di equilibrio di corpo rigido (EQU)
  - collasso per carico limite dell'insieme fondazione-terreno;
- SLU di tipo strutturale (STR)
  - raggiungimento della resistenza negli elementi strutturali.

Le verifiche saranno condotte utilizzando i coefficienti parziali riportati nelle Tabelle sottostanti (vedi DM 14/09/ 2005 NTC) per i parametri geotecnici e le azioni.

1. combinazione 1 → (A1+M1+R1) → STR
2. combinazione 2 → (A2+M2+R2) → GEO (carico limite)

Tabella 6.2.II - Coefficienti parziali per i parametri del terreno

PARAMETRO	GRANDEZZA ALLA QUALE APPLICARE IL COEFF. PARZIALE	COEFFICIENTE PARZIALE γ_M	M_1	M_2
Tangente dell'angolo di i resistenza al taglio	$\tan \varphi'_k$	$\gamma_{\varphi'}$	1	1.25
Coesione efficace	c'_k	$\gamma_{c'}$	1	1.25
Resistenza non drenata	c'_{uk}	γ_{cu}	1	1.4
Peso dell'unità di volume	γ	γ_γ	1	1

Nella tabella 5.1.V è indicato un coefficiente maggiore di uno per gli effetti a sfavore di sicurezza e un coefficiente minore del precedente, per gli effetti a favore di sicurezza.

I coefficienti di amplificazione dei carichi γ e i coefficienti di combinazione ψ sono riportati nelle tabelle 5.1.VI.

In particolare nel calcolo della struttura in oggetto si fa riferimento alla combinazione A1 STR.

Tabella 5.1.V – *Coefficienti parziali di sicurezza per le combinazioni di carico agli SLU*

		Coefficiente	EQU[1]	A1 STR	A2 GEO
Carichi permanenti	favorevoli sfavorevoli	γ_{G1}	0,90 1,10	1,00 1,35	1,00 1,00
Carichi permanenti non strutturali[2]	favorevoli sfavorevoli	γ_{G2}	0,00 1,50	0,00 1,50	0,00 1,30
Carichi variabili da traffico	favorevoli sfavorevoli	γ_{Q}	0,00 1,35	0,00 1,35	0,00 1,15
Carichi variabili	favorevoli sfavorevoli	γ_{Qi}	0,00 1,50	0,00 1,50	0,00 1,30
Distorsioni e presollecitazioni di progetto	favorevoli sfavorevoli	$\gamma_{\varepsilon 1}$	0,90 1,00[3]	1,00 1,00[4]	1,00 1,00
Ritiro e viscosità, Variazioni termiche, Cedimenti vincolari	favorevoli sfavorevoli	$\gamma_{\varepsilon 2}$, $\gamma_{\varepsilon 3}$, $\gamma_{\varepsilon 4}$	0,00 1,20	0,00 1,20	0,00 1,00

[1] Equilibrio che non coinvolga i parametri di deformabilità e resistenza del terreno; altrimenti si applicano i valori di GEO.
[2] Nel caso in cui i carichi permanenti non strutturali (ad es. carichi permanenti portati) siano compiutamente definiti si potranno adottare gli stessi coefficienti validi per le azioni permanenti.
[3] 1,30 per instabilità in strutture con precompressione esterna
[4] 1,20 per effetti locali

I valori del coefficiente ψ_{2i} sono quelli riportati nella tabella 5.1.VI della norma; la stessa propone nel caso di ponti, e più in generale per opere stradali, si assumere per i carichi dovuti al transito dei mezzi $\psi_{2i} = 0.0$.

Ai fini delle verifiche degli stati limite ultimi si riportano per comodità le combinazioni delle azioni riportate nella normativa sui ponti alla quale è possibile fare riferimento per la simbologia adottata:

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

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

Rara) $\Rightarrow$ $G_1 + G_2 + Q_{k1} + \sum_i \psi_{0i}\cdot Q_{ki}$

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

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

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

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

Dove:

$E1 = \pm 1.00 \times E_Y \pm 0.30 \times E_Z$ oppure $E2 = \pm 0.30 \times E_Y \pm 1.00 \times E_Z$

Avendo indicato con E_Y e E_Z rispettivamente le componenti orizzontale e verticale dell'azione sismica.
Gli effetti dell'azione sismica saranno valutati tenendo conto delle masse associate ai seguenti carichi gravitazionali:

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

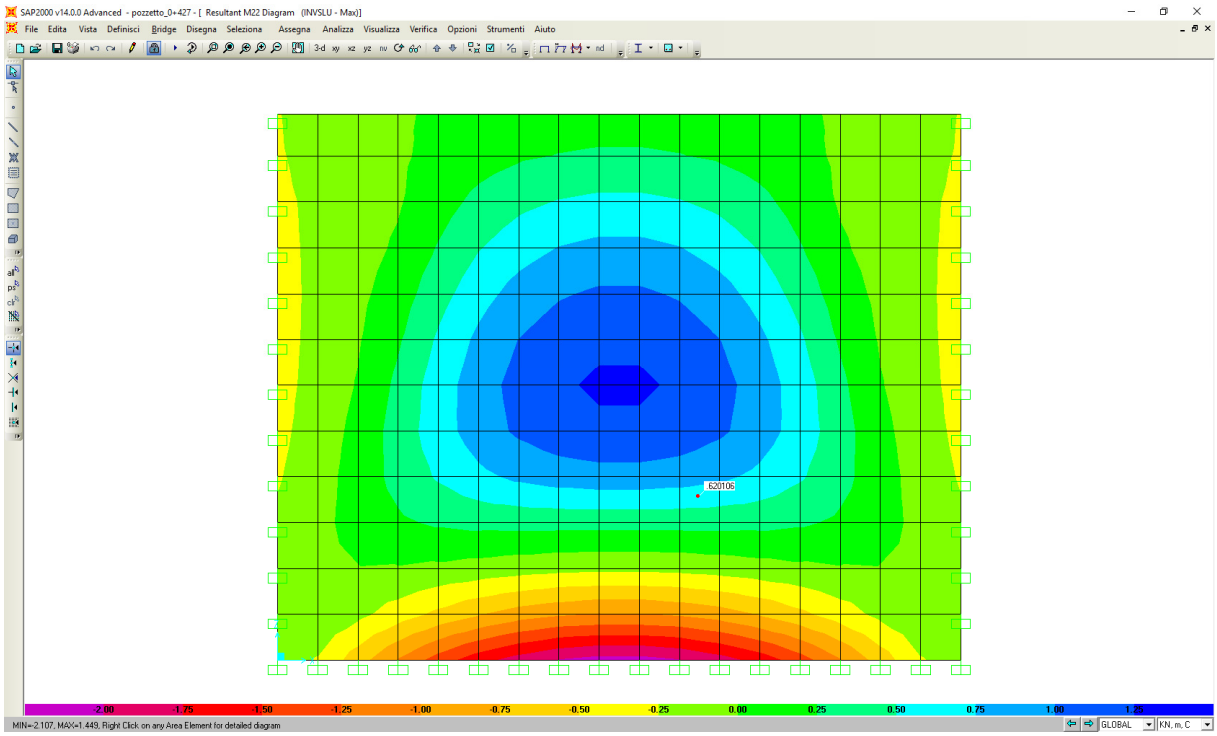
Le combinazioni di carico vengono ottenute combinando opportunamente i coefficienti innanzi detti.

6.4.2 Stato limite di apertura delle fessure

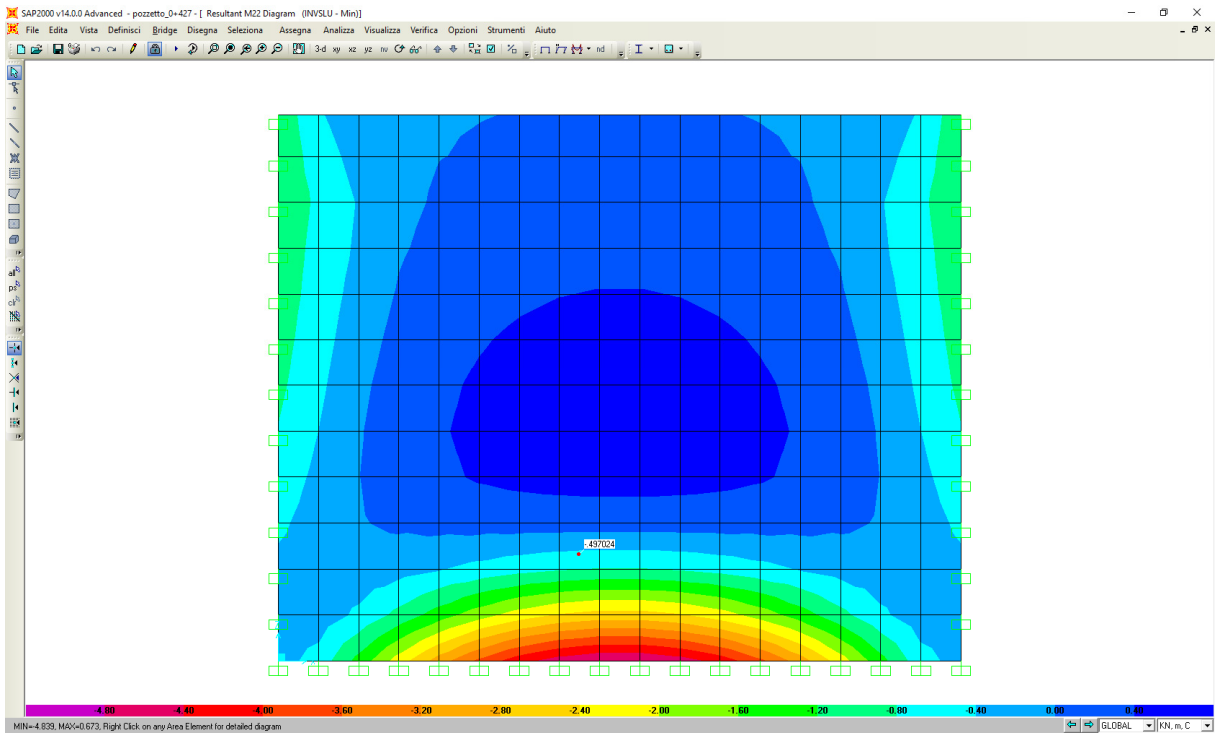
Per le verifiche a fessurazione si adotta la combinazione caratteristica FREQUENTE e QUASI PERMANENTE, cosi come richiesto del DM 2005 per gli SLE.
Pertanto l'apertura convenzionale delle fessure dovrà risultare:

a) $\delta_f \leq w_1 = 0.20$ mm per strutture in condizioni ambientali aggressive e molto aggressive, così come identificate nel DM 2005, per tutte le strutture a permanente contatto con il terreno e per le zone non ispezionabili di tutte le strutture (comb. Frequente);
b) $\delta_f \leq w_2 = 0.30$ mm per strutture in condizioni ambientali ordinarie secondo il citato paragrafo del DM 2005 (comb. Quasi permanente).

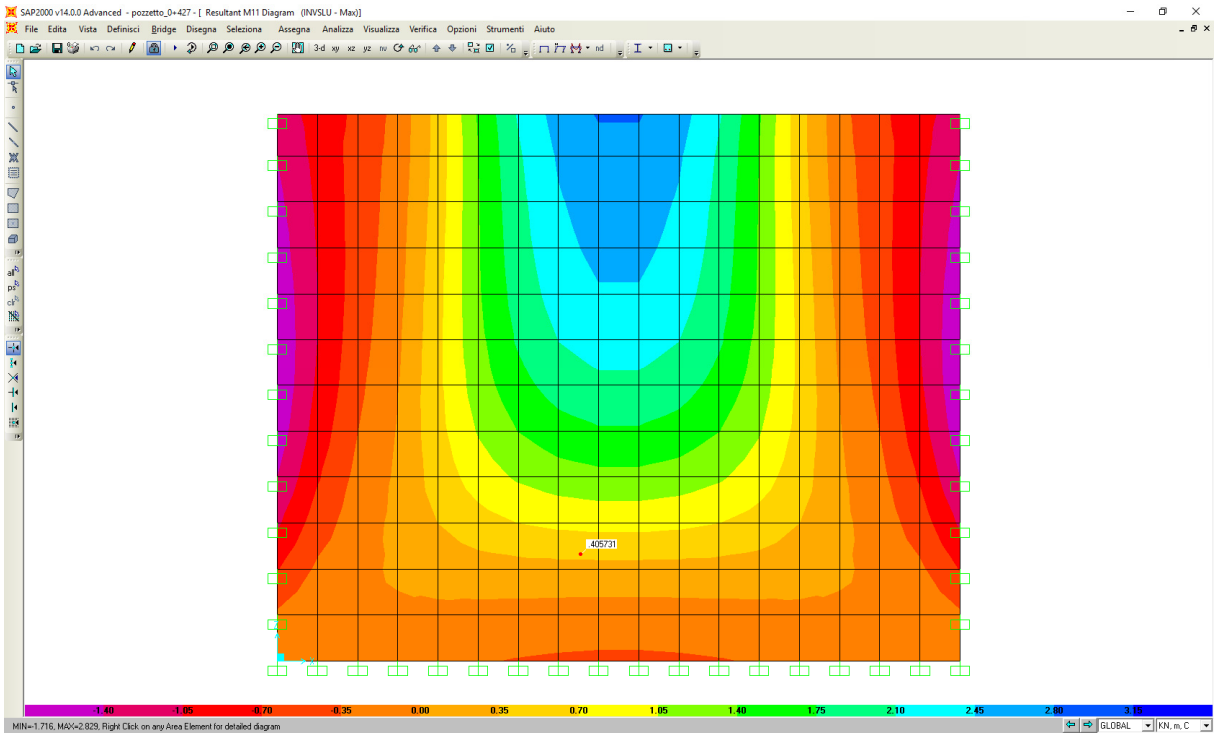
7.4 DIAGRAMMI DELLE SOLLECITAZIONI



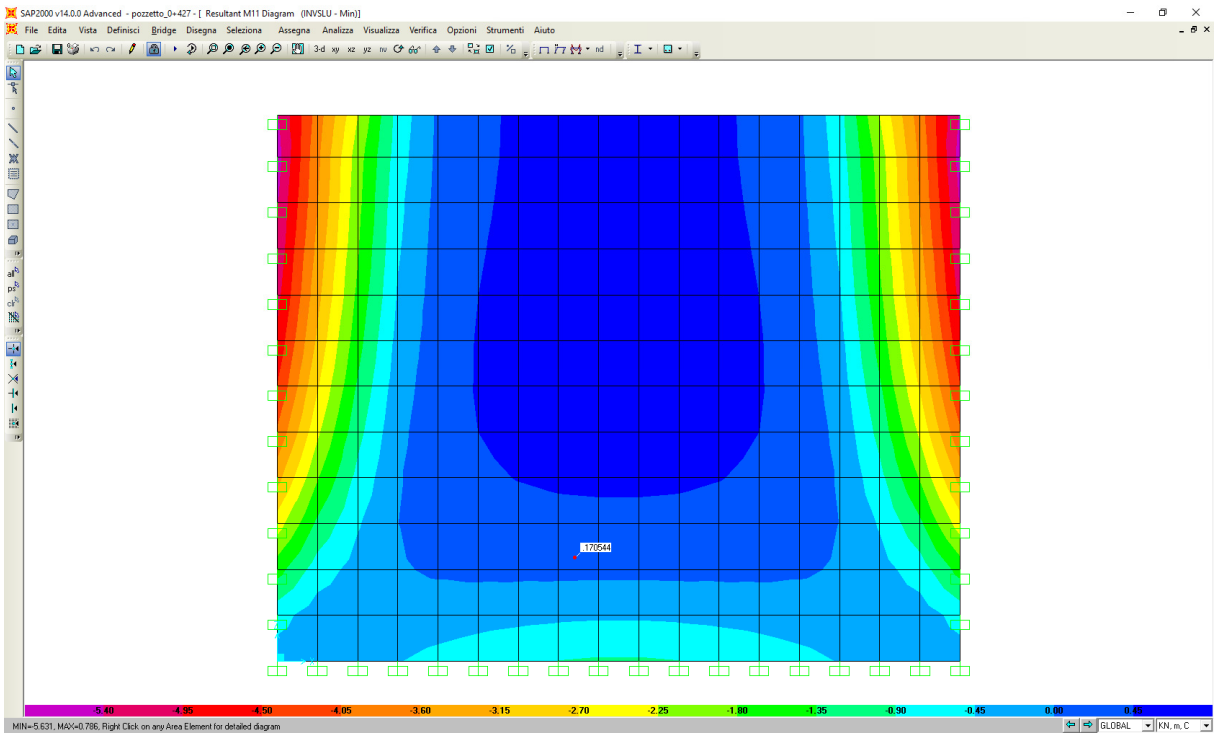
Inviluppo Momenti Flettenti SLU: M22 (+)



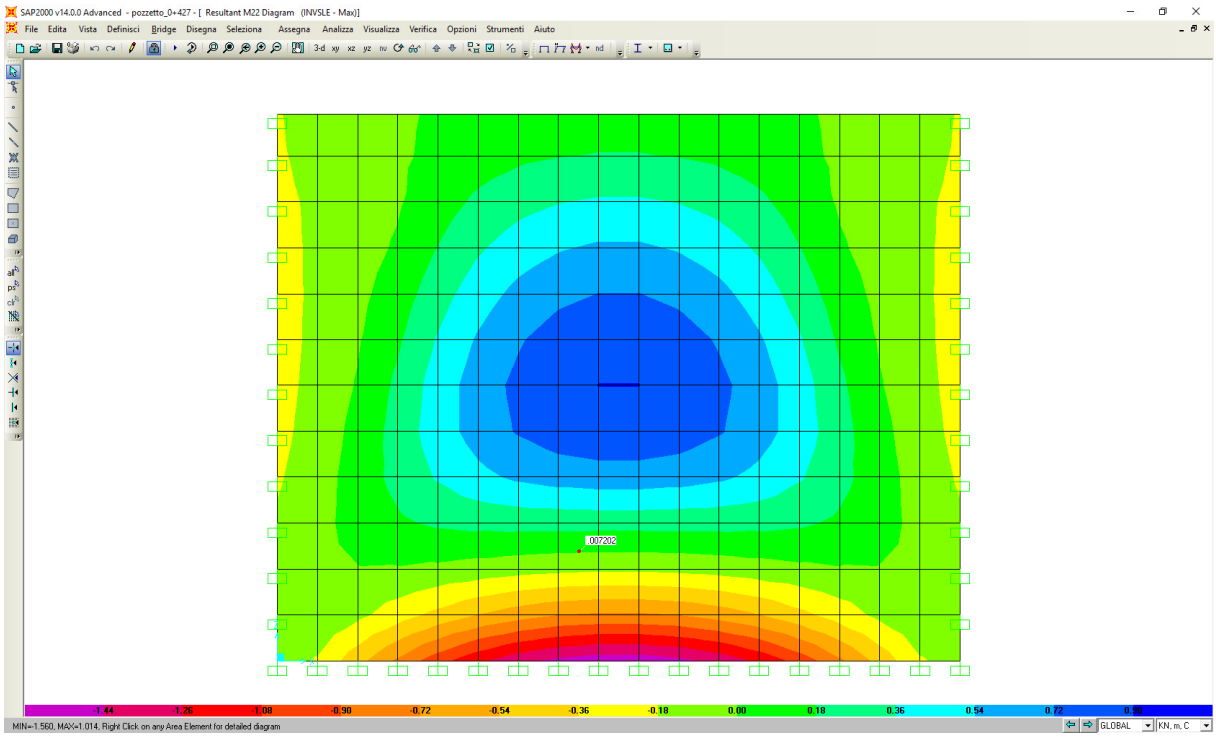
Inviluppo Momenti Flettenti SLU: M22 (-)



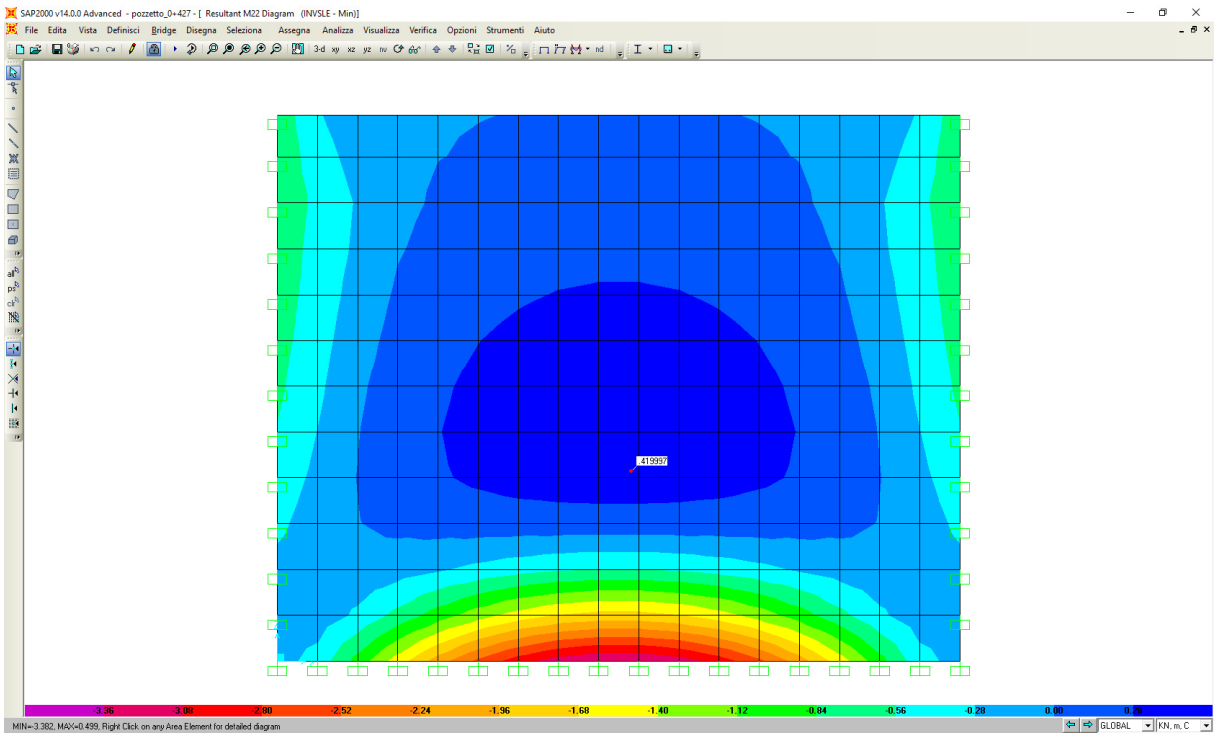
Inviluppo Momenti Flettenti SLU: M11(+)



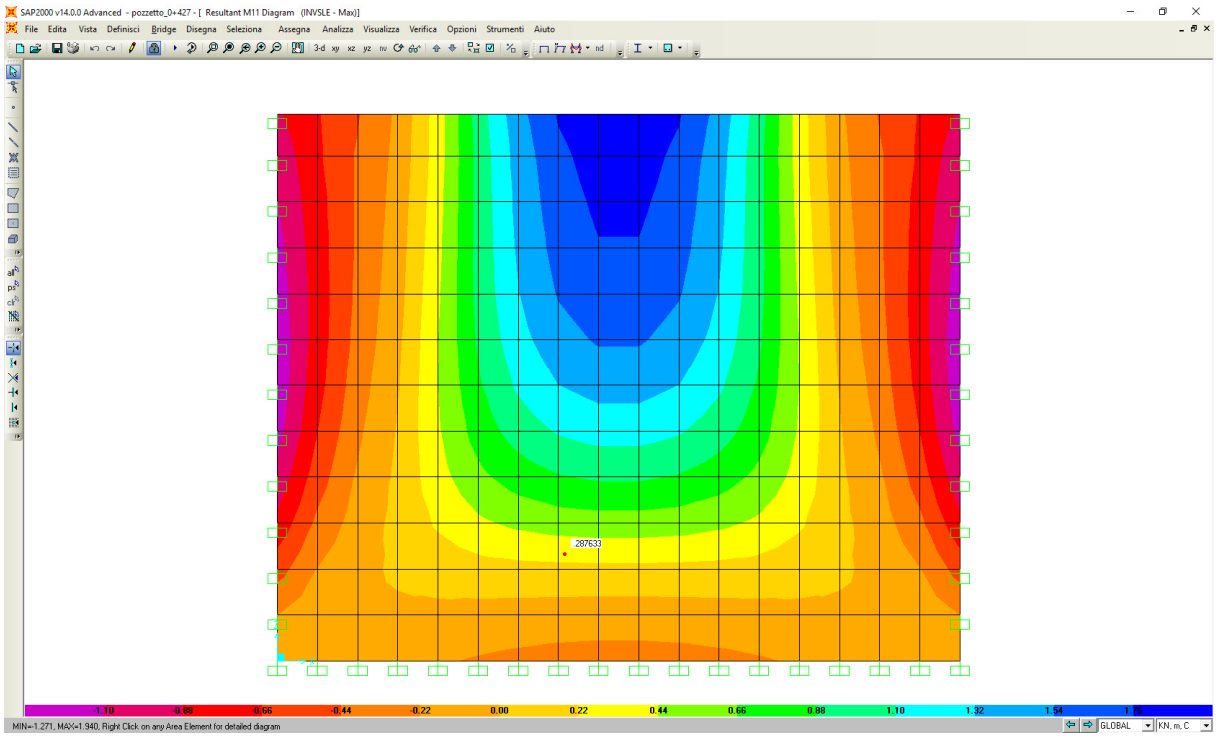
Inviluppo Momenti Flettenti SLU: M11(-)



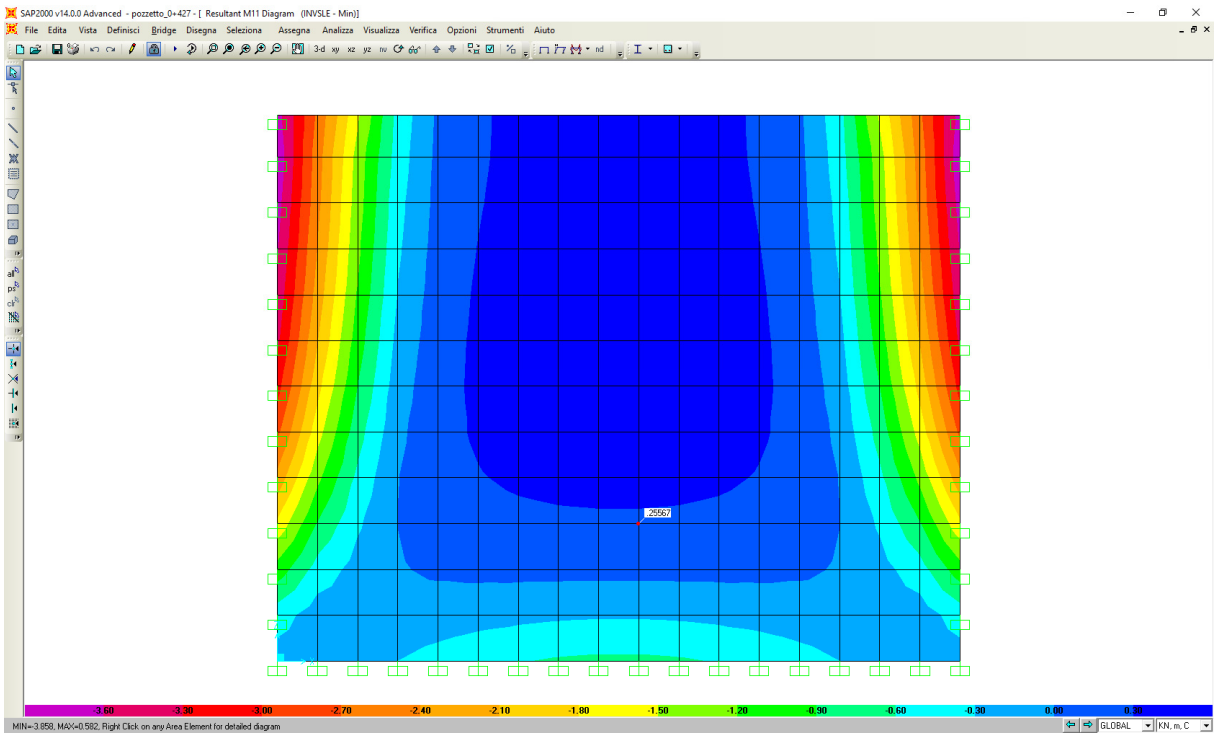
Inviluppo Momenti Flettenti SLE: M22 (+)



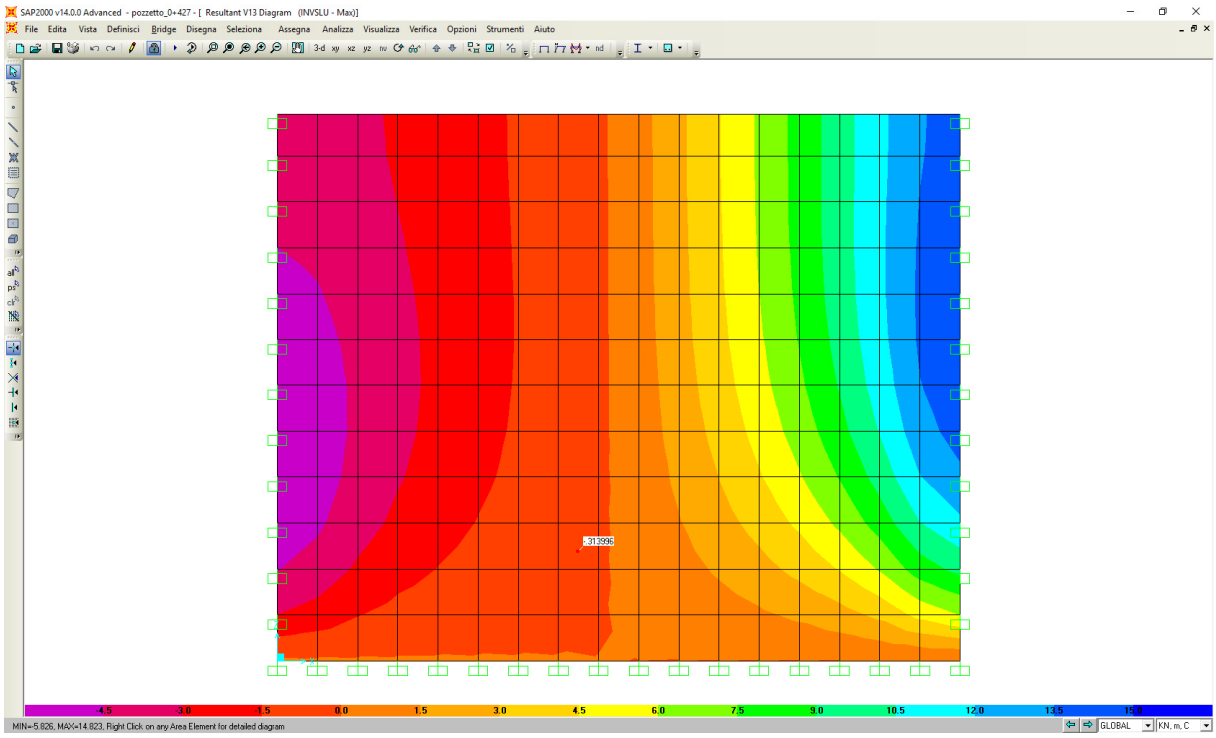
Inviluppo Momenti Flettenti SLE: M22 (-)



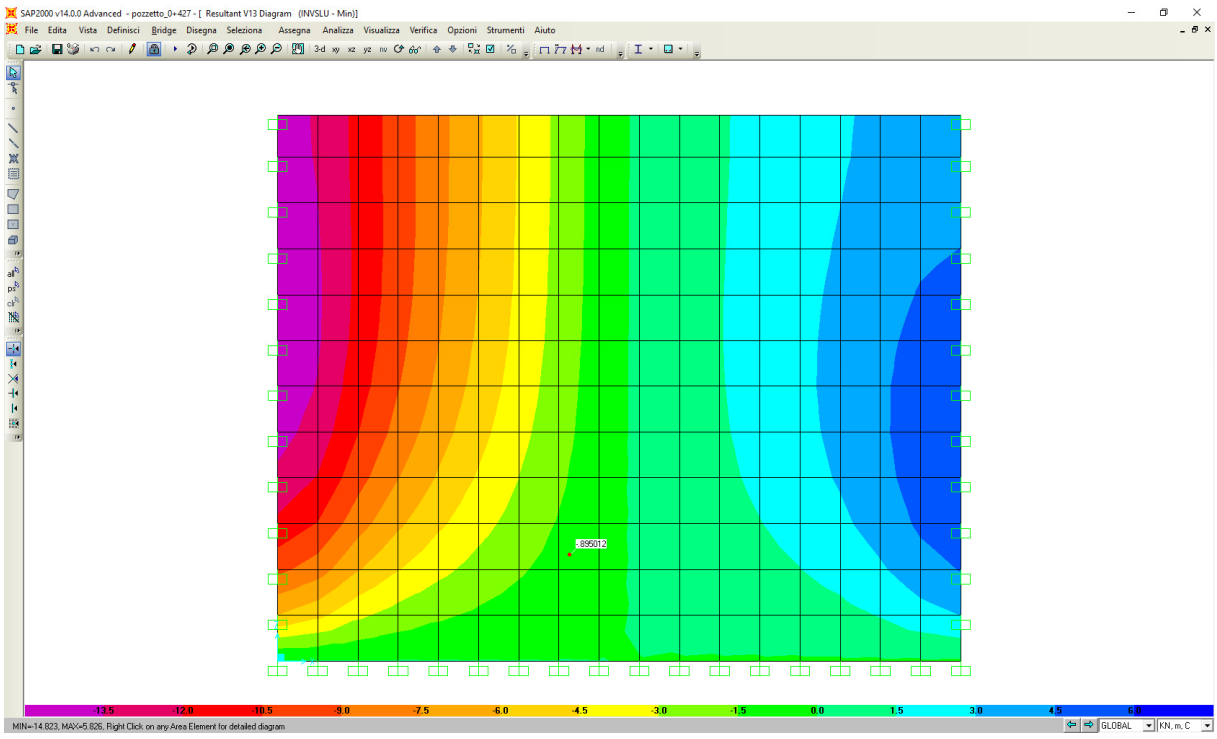
Inviluppo Momenti Flettenti SLE: M11 (+)



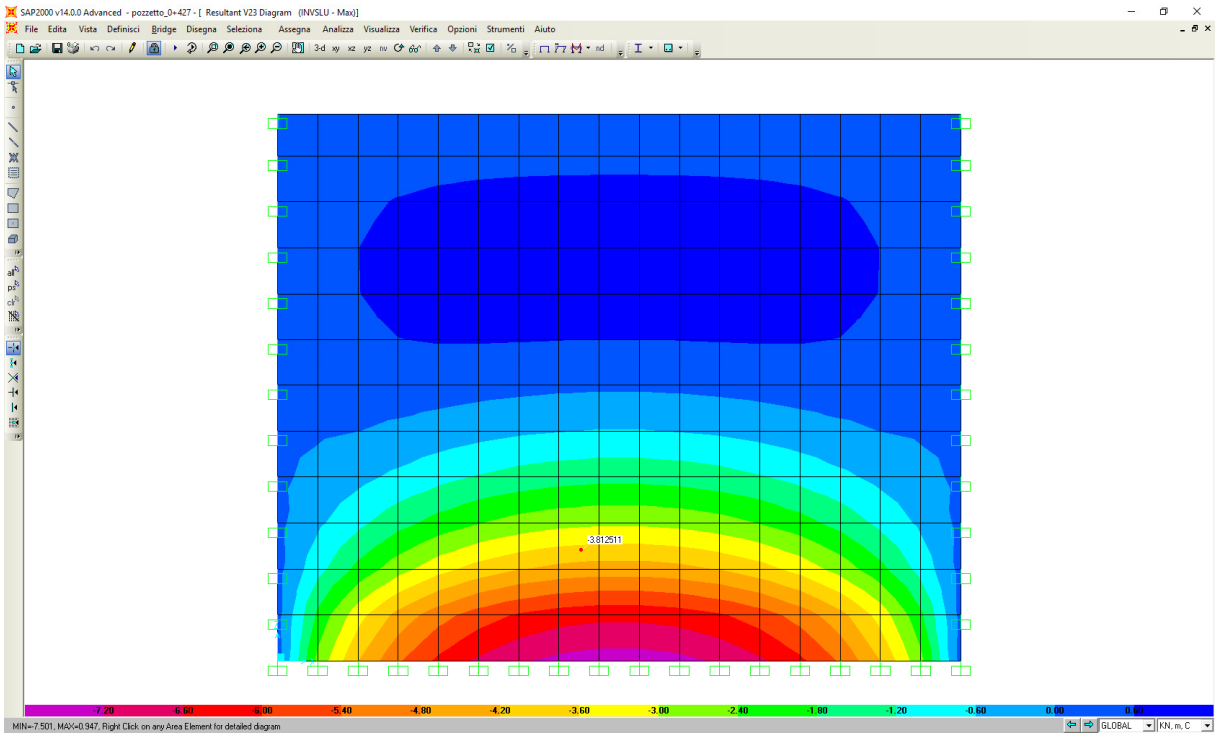
Inviluppo Momenti Flettenti SLE: M11 (-)



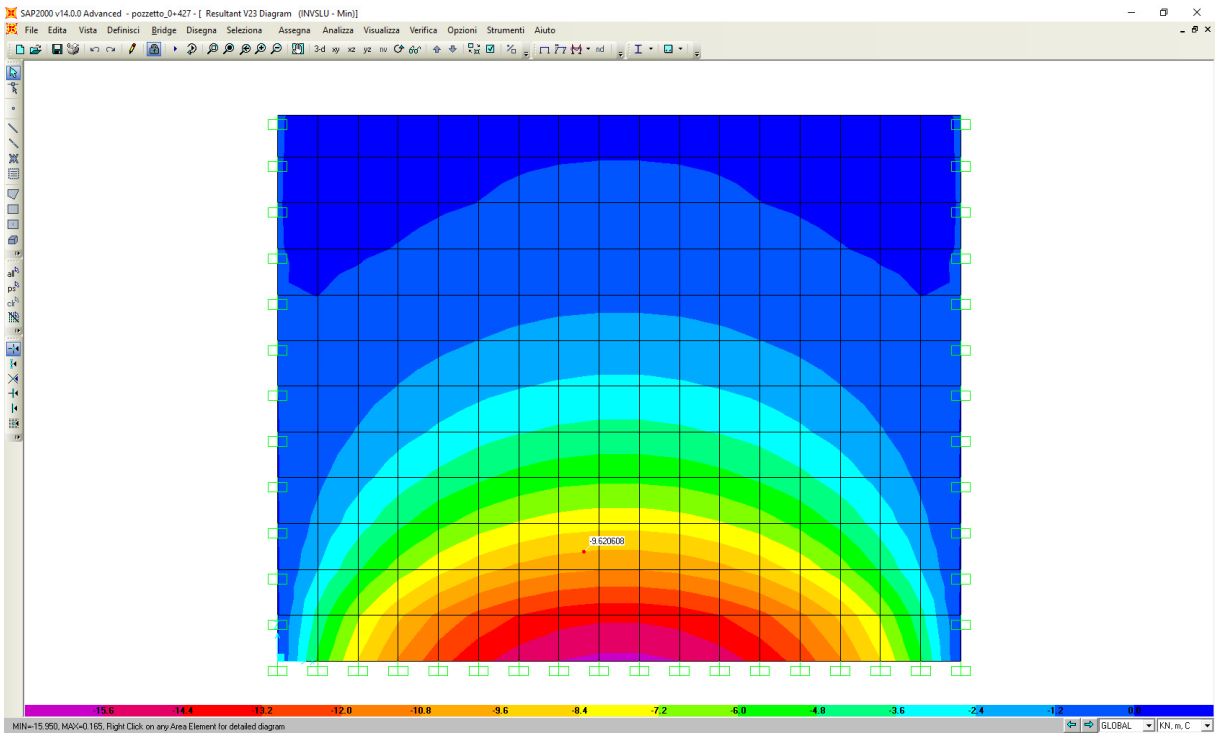
Inviluppo Sollecitazioni di Taglio SLU: V13 (+)



Inviluppo Sollecitazioni di Taglio SLU: V13 (-)



Inviluppo Sollecitazioni di Taglio SLU: V23 (+)



Inviluppo Sollecitazioni di Taglio SLU: V23 (-)

Riassumendo si hanno le seguenti sollecitazioni massime:

	SLU	SLE
	kNm	
M22,max	1.29	0.80
M22,min	-4.84	-3.38
M11,max	2.83	1.94
M11,min	-5.61	-3.85

SLU (kN)	
V13,max	14.81
V13,min	-14.81
V23,max	0.91
V23,min	-15.95

7.5 VERIFICHE

Le verifiche degli elementi strutturali che compongono l'opera, sono state eseguite mediante il metodo degli Stati Limite.

Verifica materiali:

Stato Limite Ultimo

Coefficiente di sicurezza calcestruzzo γ_c	1.50
Fattore riduzione da resistenza cubica a cilindrica	0.83
Fattore di riduzione per carichi di lungo periodo	0.85
Coefficiente di sicurezza acciaio	1.15

Verifica Taglio - Metodo dell'inclinazione variabile del traliccio

$V_{Rd}=[0.18*k*(100.0*\rho_l*f_{ck})^{1/3}/\gamma_c+0.15*\sigma_{cp}]*b_w*d>(vmin+0.15*\sigma_{cp})*b_w*d$

$V_{Rsd}=0.9*d*A_{sw}/s*(ctg\alpha+ctg\theta)*sin\alpha$

$V_{Rcd}=0.9*d*b_w*\alpha_c*fcd'*(ctg(\theta)+ctg(\alpha)/(1.0+ctg\theta^{1/2})$

con:

d altezza utile sezione [mm]

b_w larghezza minima sezione [mm]

σ_{cp} tensione media di compressione [N/mmq]

ρ_l rapporto geometrico di armatura

A_{sw} area armatuta trasversale [mmq]

S interasse tra due armature trasversali consecutive [mm]

α_c coefficiente maggiorativo, funzione di f_{cd} e σ_{cp}

$f_{cd}' = 0.5*f_{cd}$

$k = 1+(200/d)^{1/2}$

$v_{min} = 0.035*k^{3/2}*f_{ck}^{1/2}$

Stato Limite di Esercizio

Criteri di scelta per verifiche tensioni di esercizio:

Ambiente poco aggressivo

Limite tensioni di compressione nel calcestruzzo (comb. rare)	19.2 N/mm^2
Limite tensioni di compressione nel calcestruzzo (comb. quasi perm.)	14.8 N/mm^2
Limite tensioni di trazione nell'acciaio (comb. rare)	360 N/mm^2

Criteri verifiche a fessurazione:

Armatura poco sensibile

Ambiente aggressivo

Apertura limite fessure espresse in [mm]

Apertura limite fessure w1= 0.20 w2 = 0.30 w3 = 0.40

Tutte le Verifiche secondo condotte con :

Norme Tecniche 2005 - Approccio 1

Copriferro sezioni 4.00 [cm]

Le verifiche in oggetto sono risultate tutte soddisfatte, come si vede da uno stralcio dei tabulati di calcolo di seguito riportate, mentre i tabulati completi sono riportati negli “Allegati di calcolo”

Verifiche delle armature

Di seguito si riportano le verifiche di resistenza delle sezioni più sollecitate.
Inoltre avendo utilizzato un armatura simmetrica su tutto il pozzetto, le verifiche strutturali verranno effettuate solo per la sezione più sollecitata e considerando le armature posposte in 2° strato.
Le sollecitazioni di verifica sono riportate nelle tabelle seguenti.

Sollecitazioni di verifica		
	Mmax (kNm)	**Tmax (kN)**
SLU - STATICA	5.61	15.95
SLE - RARA	3.38	/

Nota: M positivo se tende le fibre inferiori (contro terra)

Caratteristiche geometriche della sezione

Larghezza b	100 cm
Altezza h	30 cm
Armatura tesa 1° strato Aa	1Φ12/20 = 5.65 cm^2
Copriferro 1°strato c1	5.8 cm
Armatura tesa 2° strato Aa	
Copriferro 2°strato c2	
Armatura compressa 1° strato A'a	1Φ12/20 = 5.65 cm^2
Copriferro armatura compressa c'	24.2 cm

Le sollecitazioni per l'acciaio sono state ottenute trascurando, a favore di sicurezza, le azioni normali di compressione.

Verifiche allo stato limite ultimo per flessione

Sollecitazioni di verifica:
M = 5.61 kNm

Sollecitazioni ultime:
Mu = 61.26 kNm
Coeff. sicurezza = 10.91

Verifiche allo stato limite di esercizio (condizione rara)

Le verifiche da condurre in combinazione rara riguardano le tensioni di esercizio; nello specifico si verifica che le tensioni nei materiali si mantengano nei seguenti limiti:

$\sigma_c \leq 19.20$ N/mm^2

$\sigma_f \leq 360$ N/mm^2

Sollecitazioni di verifica:

M = 3.38 kNm

pertanto:

$\sigma_c = 0.54$ N/mm^2

$\sigma_f = 26.74$ N/mm^2

Le verifiche sono rispettate.

Verifiche allo stato limite di esercizio (condizione frequente)

Le verifiche da condurre in combinazione frequente riguardano l'apertura delle fessure; nello specifico si verifica che l'ampiezza delle fessure si mantenga inferiore al valore limite:

$w_k \leq w_2 = 0.300$ mm.

Sollecitazioni di verifica:

M = 3.38 kNm

$w_k = 0.020$ mm $\leq w_2$

Verifiche allo stato limite di esercizio (condizione quasi permanente)

Le verifiche da condurre in combinazione quasi permanente riguardano sia la tensione di esercizio del calcestruzzo sia l'apertura delle fessure; nello specifico si verifica che la tensione nel calcestruzzo si mantenga nel seguente limite:

$\sigma_c \leq 14.80$ N/mm^2

e che l'ampiezza delle fessure si mantenga inferiore al valore limite:

$w_k \leq w_1 = 0.200$ mm.

Sollecitazioni di verifica:

M = 3.38 kNm

Nel caso in esame si ha:

$\sigma_c = 0.54$ N/mm^2

$w_k = 0.020$ mm $< w_1$

Verifiche allo stato limite ultimo per Taglio

Di seguito si riporta la verifica a taglio ultimo della sezione in esame:

Elementi senza armatura trasversale a taglio				
- Verifica del conglomerato				
VRd =[0,18*k*(100*ρ1*f_{ck})$^{1/3}$/γc+0,15*σcp]*bw*d =			**107.36**	kN
VEd =	**15.95**	**kN**	ok	
con:				
K = 1+(200/d)$^{1/2}$ =	1.933		≤ 2	
Rck =	40	N/mm^2		
v_{min} = 0,035*$k^{3/2}$*$fck^{1/2}$ =	0.542	N/mm^2		
fck =0,83*Rck =	33.2	N/mm^2		
fcd =α_{cc}*fck/γc =	18.81	N/mm^2		
ρ1 = Asl/(bw*d) =	0.00246		≤ 0,02	
d =	230	mm		
H =	300	mm		
bw =	1000	mm		
Asl =	565	mm^2	(1ϕ12/20)	
N_{Ed} =	**0.00**	kN		
σ_{cp} =N_{Ed}/Ac =	0.000	N/mm^2	≤ 0,2*fcd	

8. CALCOLO DEL MURO DI SOSTEGNO

Il presente capitolo riporta le calcolazioni eseguite e le relative verifiche del muro di sostegno (h=1.90 m) realizzato allo sbocco del tombino ϕ800:

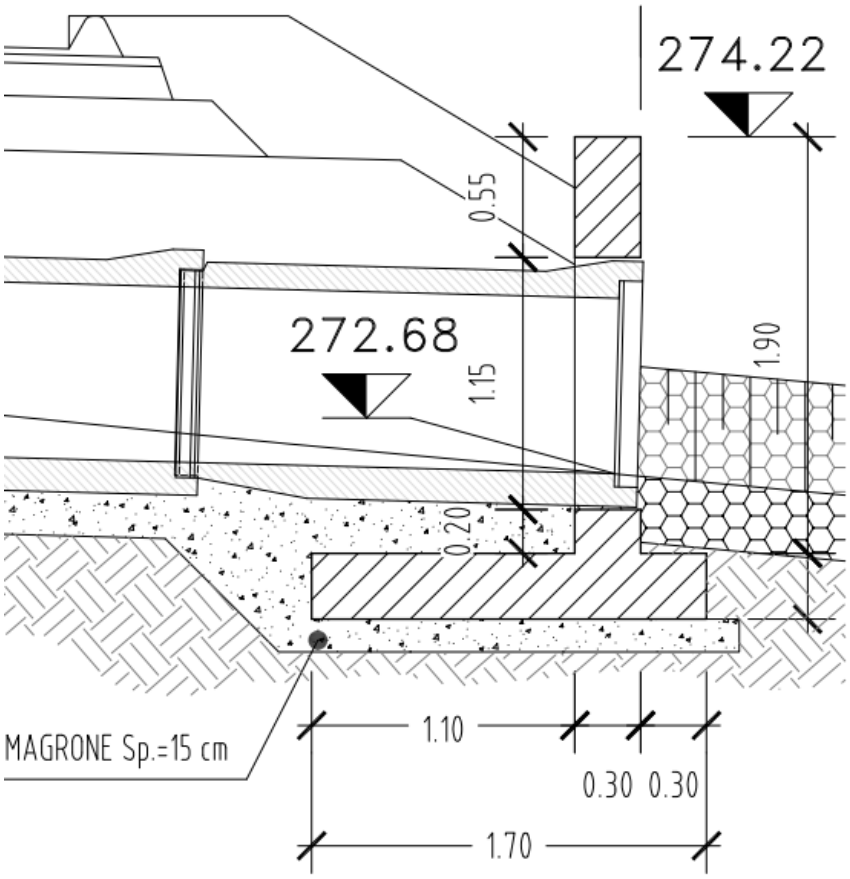


Figura 4: Sezione Muri di sostegno

8.1 CRITERI E IPOTESI DI CALCOLO

8.1.1 Criteri di verifica delle sezioni in c.a.

Per le sezioni in cemento armato si effettuano:

- verifiche per gli stati limite ultimi a presso-flessione;
- verifiche per gli stati limite ultimi a taglio;
- verifiche per gli stati limite di esercizio.

8.1.2 Verifiche per gli stati limite ultimi a flessione-pressoflessione

Allo stato limite ultimo, le verifiche a flessione o presso-flessione vengono condotte confrontando (per le sezioni più significative) le resistenze ultime e le sollecitazioni massime agenti, valutando di conseguenza il corrispondente fattore di sicurezza.

8.1.3 Verifica agli stati limite ultimi a taglio

La verifica allo stato limite ultimo per azioni di taglio è condotta secondo quanto prescritto dalla norma UNI EN 1992-1-1:2005, per elementi con armatura a taglio verticali.

Si fa, pertanto, riferimento ai seguenti valori della resistenza di calcolo:

- $V_{Rd,c} = \max\left\{\left[0.18/\gamma_c \cdot k \cdot (100 \cdot \rho_l \cdot f_{ck})^{1/3} + 0.15 \cdot \sigma_{cp}\right] \cdot b_w \cdot d; (v_{min} + 0.15 \cdot \sigma_{cp}) \cdot b_w \cdot d\right\}$,

resistenza di calcolo dell'elemento privo di armatura a taglio

- $V_{Rd,s} = 0.9 \cdot \frac{A_{sw}}{s} \cdot z \cdot f_{ywd} \cdot (\cot\alpha + \cot\vartheta) \cdot sen\alpha$, valore di progetto dello sforzo di taglio che può essere sopportato dall'armatura a taglio alla tensione di snervamento

- $V_{Rd,max} = 0.9 \cdot d \cdot b_w \cdot \alpha_c \cdot f'_{cd} (\cot\alpha + \cot\vartheta)/(1 + \cot^2\vartheta)$, valore di progetto del massimo sforzo di taglio che può essere sopportato dall'elemento, limitato dalla rottura delle bielle compresse.

Nelle espressioni precedenti, i simboli hanno i seguenti significati:

- $k = 1 + \sqrt{\frac{200}{d}} \le 2$ con d in mm;

- $\rho_l = \frac{A_{sl}}{b_w \cdot d} \le 0.02$;

- A_{sl} è l'area dell'armatura tesa;
- b_w è la larghezza minima della sezione in zona tesa;
- $\sigma_{cp} = \frac{N_{Ed}}{A_c} < 0.2 \cdot f_{cd}$;
- N_{Ed} è la forza assiale nella sezione dovuta ai carichi;
- A_c è l'area della sezione di calcestruzzo;
- $\nu_{min} = 0.035 \cdot k^{3/2} \cdot f_{ck}^{1/2}$;
- $1 \le \cot\vartheta \le 2.5$ è l'inclinazione dei puntoni di calcestruzzo rispetto all'asse della trave
- A_{sw} è l'area della sezione trasversale dell'armatura a taglio;
- s è il passo delle staffe;
- f_{ywd} è la tensione di snervamento di progetto dell'armatura a taglio;
- $f'_{cd} = 0.5 \cdot f_{cd}$ è la resistenza ridotta a compressione del calcestruzzo d'anima;
- $\alpha_{cw} = 1$ è un coefficiente che tiene conto dell'interazione tra la tensione nel corrente compresso e qualsiasi tensione di compressione assiale.

8.1.4 Verifica agli stati limite d'esercizio

Si effettuano le seguenti verifiche agli stati limite di esercizio:

- stato limite delle tensioni in esercizio;
- stato limite di fessurazione.

Nel primo caso, si esegue il controllo delle tensioni nei materiali supponendo una legge costitutiva tensioni-deformazioni di tipo lineare. In particolare si controlla la tensione massima di compressione del calcestruzzo e di trazione dell'acciaio, verificando che:

- $\sigma_c < 19.20 N/mm^2$ per combinazione rara delle azioni;
- $\sigma_s < 360 N/mm^2$.

Per il cemento armato precompresso vi sono delle condizioni aggiuntive da verificare, qui di seguito riassunte:

La verifica a fessurazione è stata svolta secondo il metodo proposto della NTC 2005.

Tabella 5.1-X

Gruppi di esigenze	Condizioni ambientali	Combinazione di azioni	Armatura			
			Sensibile		Poco sensibile	
			Stato limite	w_d	Stato limite	w_d
a	Ordinarie	frequente	ap. fessure	$\leq w_2$	ap. fessure	$\leq w_3$
		quasi permanente	ap. fessure	$\leq w_1$	ap. fessure	$\leq w_2$
b	Aggressive	frequente	ap. fessure	$\leq w_1$	ap. fessure	$\leq w_2$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$
c	Molto aggressive	frequente	formaz. fessure	$\leq w_1$	ap. fessure	$\leq w_1$
		quasi permanente	decompressione	-	ap. fessure	$\leq w_1$

Nel nostro caso, si assume che le condizioni ambientali del sito in cui sorge l'opera siano aggressive e si verifica che il valore limite di apertura della fessura, calcolato per armature poco sensibili, sia al più pari ai seguenti valori nominali:

- $w_1 = 0.3\,\text{mm}$ -combinazione frequente,
- $w_1 = 0.2\,\text{mm}$ -combinazione quasi permanente

8.2 VERIFICA AGLI STATI LIMITI

L'analisi mira a garantire la sicurezza e le prestazioni attese attraverso il conseguimento dei seguenti requisiti :

- sicurezza nei confronti degli Stati Limite di Esercizio.
- sicurezza nei confronti degli Stati Limite Ultimi

Tali verifiche sono state effettuate prevedento le due seguenti combinazioni di coefficienti:

- Combinazione 1: A1+M1+R1 (STR)
- Combinazione 2: A2+M2+R2 (GEO)

A queste combinazioni si aggiunge la combinazione che prevede l'urto del veicolo in svio in testa al muro (ECC) con coefficienti unitari di combinazione dei carichi permanenti e degli accidentali e coefficiente di sicurezza anch'esso unitario.
Considerando i coefficienti parziali riportati nelle tab delle NTC 2005.
Nelle condizioni di esercizio gli spostamenti dell'opera sono stati valutati per verificarne la compatibilità con la funzionalità dell'opera e con la sicurezza delle opere adiacenti.
In particolare in condizioni sismiche devono essere condotte verifiche nei confronti dello stato limite di

danno. Gli spostamenti permanenti indotti dal sisma devono essere compatibili con la funzionalità dell'opera e con quella di eventuali strutture o infrastrutture interagenti con essa.
Nel nostro caso trattasi di muri di controripa, quindi che non hanno funzione di contenimento della sede ferroviairia pertanto tale verifica viene omessa.

In particolare sono stati verificati i seguenti stati limiti ultimi:

- ❖ Verifica del muro di sostegno

SLU di tipo geotecnico (GEO)

- scorrimento sul piano di posa;
- collasso per carico limite dell'insieme fondazione-terreno;
- ribaltamento.

SLU di tipo strutturale (STR)

- raggiungimento della resistenza negli elementi strutturali;

Le rimanenti verifiche devono essere effettuate applicando il primo approccio progettuale (Approccio 1) che prevede le due seguenti combinazioni di coefficienti:

- Combinazione 1: A1+M1+R1 (STR)
- Combinazione 2: A2+M2+R2 (GEO)

Considerando i coefficienti parziali riportati nelle tab. delle NTC 2005.
I risultati delle analisi sono riportati di seguito.

8.2.1 Metodo di analisi - calcolo muro

8.2.1.1 Descrizione modello di calcolo

Il progetto e la verifica dei muri di sostegno , sono stati effettuati con l'ausilio di fogli elettronici di comprovata validità.

In tali fogli vengono implementate tutte le caratteristiche geometriche dei muri insieme agli angoli di attrito tra paramento e terreno e tra fondazione e terreno.

Per quanto riguarda l'angolo di attrito tra paramento e terreno si effettua la seguente distinzione:

Caso di muri a mensola con suola sufficientemente lunga, quando cioè l'angolo che la retta passante per lo spigolo lato terreno della testa del muro e lo spigolo lato terreno della fondazione forma con la verticale è superiore a 45-ϕ'/2 con ϕ' angolo di resistenza al taglio del terreno, la spinta sull'opera di sostengo deve essere applicata sul piano verticale a partire dallo spigolo controterra della fondazione assunto come paramento virtulae del muro. Su tale paramento l'angolo di inclinazione δ della risultante della spinta (applicata ad 1/3 dell'altezza del paramento virtuale) si può assumere uguale all'angolo di inclinazione β del terrapieno, a meno che β non sia superiore all'angolo di resistenza al taglio del terreno ϕ', nel qual caso si potrà assumenre $\delta = \phi$'.

Per muri con suola relativamente corta, quando cioè l'angolo che la retta passante per lo spigolo lato terreno della testa del muro e lo spigolo lato terreno della fondazione forma con la verticale è inferiore a 45-ϕ'/2 con ϕ' angolo di resistenza al taglio del terreno, si può assumere $\delta = \phi$'/2 e la superficie virtuale su cui applicare la spinta diventa il piano che unisce lo spigolo lato terreno della testa del muro e lo spigolo lato terreno della fondazione.

Nel primo caso tutto il peso del terreno al di sopra della suola deve essere considerato stabilizzante nelle verifiche, e ad esso sono da applicarsi le forze dì nerzia in fase sismica. Nel secondo caso il terreno da prendere in considerazione è quello contenuto nel triangolo che ha per la lati il paramento verticale, la fondazione del muro e la retta passante per lo spigolo lato terreno della testa del muro e lo spigolo lato terreno della fondazione.

Nel nostro caso i muri sono con mensola corta e quindi $\delta = 0.5*\phi$'.

Nel valutare la stabilità di un muro di sostegno è opportuno che la verifica allo scorrimento della fondazione del muro sia effettuata con riferimento al valore a volume costante o allo stato critivo dell'angolo di resistenza al taglio, poichè il meccanismo di scorrimento, che coinvolge spessori molto modesti di terreno e l'inevitabile disturbo connesso con la preparazione del piano di posa della fondazione, possono comportare modifiche significative dei parametri di resistenza. Per questo stesso motivo, nelle analisi svolte in temini di tensioni efficaci, è opporturno trascurare ogni contributo della coesione nelle verifiche allo scorrimento .

Inoltre nella verifica a scorrimento e a ribaltamento dei muri di sostegno viene trascurata la resistenza passiva antistante il muro.

Nel nostro caso l'angolo di attrito fondazione-terreno nelle verifiche a scorrimento è pari a $\phi'_{cv} = \arctan(\tan\phi')$.

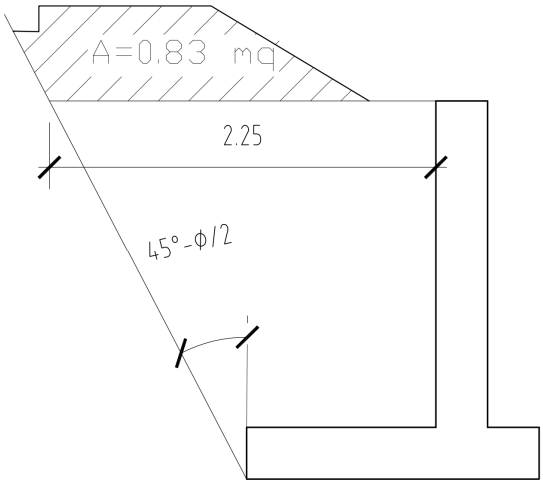
8.3 MURO: H = 1.90 M

8.3.1 Analisi dei carichi

8.3.1.1 Carico permanente

L'analisi viene condotta considerando una larghezza unitaria dell'opera.

Il carico di progetto è rappresentato dal peso proprio dei permanenti (struttura in c.a., terrapieno) e dal sovraccarico accidentale. In particolare il terrapieno che si trova a tergo del muro ad una quota più alta rispetto alla testa del muro, viene considerato come sovraccarico equivalente pari a: 20*0.83/2.25 □ 8.00 kN/mq. Tale carico è stato ottenuto calcolando il peso di terrapieno che ricade all'interno del cuneo di spinta sul muro:



8.3.1.2 Accidentale a tergo del muro

A monte si ha un sovraccarico accidentale dovuto al traffico stradale pari a 20.00 kN/m^2.

8.3.1.3 Descrizione analisi sismica

In condizioni sismiche, nelle analisi eseguite con il metodo pseudostatico, i valori dei coefficienti sismici orizzontali e verticali, nelle verifiche allo stato limite ultimo, possono essere assunti, come definito ai paragrafi precedenti relativi al calcolo della vbasca di imbocco::

$$k_h = S_T \cdot S_S \cdot \frac{a_g}{g} / r \; ; \qquad k_v = \frac{1}{2} \cdot k_h$$

I parametri che caratterizzano l'azione sismica (Terreno di tipo E) sono riportati nella tabella seguente:

S_s*S_T*ag/g	0.343
Coefficiente r	2
$k_h = a_{max}$ (g)/r	0.172
K_V =0.5* k_h =	0.086

Verifica muro - Parametri azione sismica

L'evento sismico è stato modellato considerando due tipi di forze:

1) le forze inerziali appliocate alla masse strutturali del muro e del terrapieno a tergo del muro;

2) l'incremento di spinta sismica del terreno.

Per quanto attiene allle forze inerziali si moltiplica il coefficiente k_h per le masse in questione.

Il secondo contributo consiste in un incremento di spinta ΔF pari alla differenza fra la spinta totale F_{sd} esercitata dal terreno retrostante in condizioni sismiche (calcolata con il metodo di Mononobe-Okabe) e quella statica F_s:

$\Delta F = Fs_d - F_s$ = incremento di spinta corrispondente all'effetto sismico (applicata a metà del muro).

8.3.2 Risultati verifiche geotecniche

Di seguito vengono riportati i risultati delle verifiche geotecniche in forma tabellare esplicitate negli allegati:

MURO H=1.90 m

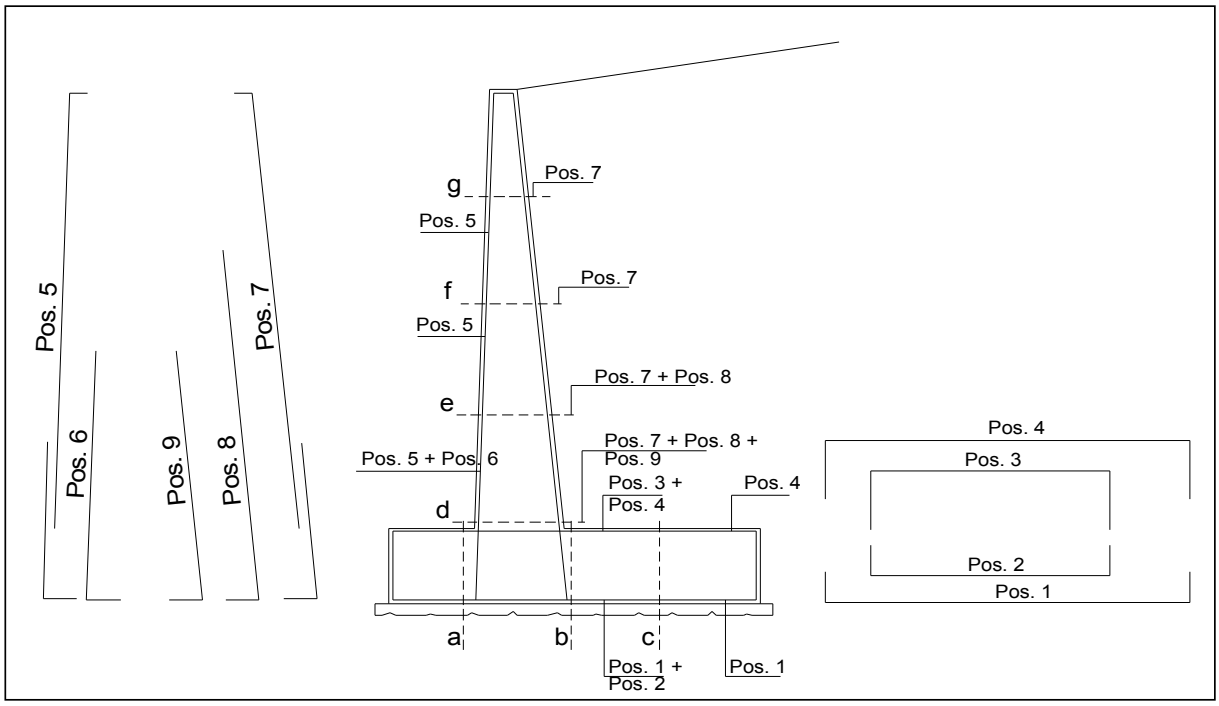
CONDIZIONE STATICA				
	Scorrimento	**Ribaltamento**	**Capacità portante**	**Cedimento della fondazione (mm)**
SLE	---	----	----	1.77

CONDIZIONE ALLO SLU E SISMICA				
	Scorrimento	**Ribaltamento**	**Capacità portante**	**Cedimento della fondazione (mm)**
SLU (A1-M1)	1.43	2.41	2.93	---
SLU (A2-M2)	1.19	2.22	1.45	---
SISMICA +	1.13	2.44	1.34	----
SISMICA -	1.11	1.97	1.22	-----
	ok	**ok**	**ok**	

8.3.3 Risultati verifiche strutturali del muro con H = 1.90 m

Di seguito vengono riportati i risultati delle verifiche strutturali, nelle sezioni indicate in figura, in forma tabellare esplicitate nell'allegato:

SCHEMA DELLE ARMATURE

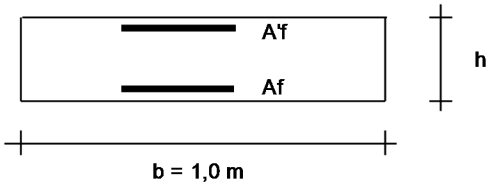


ARMATURE

pos	n°/ml	ϕ	pos	n°/ml	ϕ
1	5.0	12	5	5.0	12
2	5.0	0	6	0.0	0
3	5.0	0	7	5.0	12
4	5.0	12	8	0.0	0
			9	5.0	0

Calcola

VERIFICHE



a-a	pos 1-2-3-4
b-b	pos 1-2-3-4
c-c	pos 1-4
d-d	pos 5-6-7-8-9
e-e	pos 5-7-8
f-f	pos 5-7
g-g	pos 5-7

A1-M1

Sez.	M	N	h	Af	A'f	Mu
(-)	(kNm)	(kN)	(m)	(cm^2)	(cm^2)	(kNm)
a - a	3.33	0.00	0.30	5.65	5.65	62.19
b - b	-34.35	0.00	0.30	5.65	5.65	62.19
c - c	-13.11	0.00	0.30	5.65	5.65	62.19
d - d	25.31	23.90	0.30	5.65	5.65	64.71
e -e	13.18	17.22	0.30	5.65	5.65	64.01
f - f	5.39	11.01	0.30	5.65	5.65	63.35
g - g	1.23	5.27	0.30	5.65	5.65	62.75

A2-M2

Sez.	M	N	h	Af	A'f	Mu
(-)	(kNm)	(kN)	(m)	(cm^2)	(cm^2)	(kNm)
a - a	3.54	0.00	0.30	5.65	5.65	63.01
b - b	-26.06	0.00	0.30	5.65	5.65	63.01
c - c	-10.76	0.00	0.30	5.65	5.65	63.01
d - d	26.61	22.50	0.30	5.65	5.65	65.33
e -e	14.00	16.35	0.30	5.65	5.65	64.69
f - f	5.79	10.54	0.30	5.65	5.65	64.10
g - g	1.34	5.10	0.30	5.65	5.65	63.54

SISMA

Sez.	M	N	h	Af	A'f	Mu
(-)	(kNm)	(kN)	(m)	(cm^2)	(cm^2)	(kNm)
a - a	3.55	0.00	0.30	5.65	5.65	62.19
b - b	-25.37	0.00	0.30	5.65	5.65	62.19
c - c	-9.90	0.00	0.30	5.65	5.65	62.19
d - d	23.60	21.32	0.30	5.65	5.65	64.44
e -e	11.12	15.20	0.30	5.65	5.65	63.79
f - f	3.98	9.61	0.30	5.65	5.65	63.20
g - g	0.76	4.54	0.30	5.65	5.65	62.67

SLE e fessurazione

Condizione Statica

Sez.	M	N	h	Af	A'f	σ^c	σ^f	wk	w_{amm}
(-)	(kNm)	(kN)	(m)	(cm^2)	(cm^2)	(N/mm^2)	(N/mm^2)	(mm)	(mm)
a - a	2.56	0.00	0.30	5.65	5.65	0.40	20.13	0.021	0.200
b - b	-16.58	0.00	0.30	5.65	5.65	2.61	130.26	0.139	0.200
c - c	-7.09	0.00	0.30	5.65	5.65	1.12	55.72	0.059	0.200
d - d	17.23	20.86	0.30	5.65	5.65	2.68	115.91	0.121	0.200
e -e	8.94	15.14	0.30	5.65	5.65	1.38	56.17	0.058	0.200
f - f	3.64	9.76	0.30	5.65	5.65	0.55	19.62	0.020	0.200
g - g	0.83	4.71	0.30	5.65	5.65	0.11	2.40	0.002	0.200

Verifica a taglio sezione b-b

Elementi senza armatura trasversale a taglio

- Verifica del conglomerato

VRd =[0,18*k*(100*ρ1*f_{ck})$^{1/3}$/γc+0,15*σcp]*bw*d =			**107.36**	kN
VEd =	**41.43**	**kN**	ok	
con:				
K = 1+(200/d)$^{1/2}$ =	1.933		≤ 2	
Rck =	40	N/mm^2		
v_{min} = 0,035*k$^{3/2}$*fck$^{1/2}$ =	0.542	N/mm^2		
fck =0,83*Rck =	33.2	N/mm^2		
fcd =α_{cc}*fck/γc =	18.81	N/mm^2		
ρ1 = Asl/(bw*d) =	0.00246		≤ 0,02	
d =	230	mm		
H =	300	mm		
bw =	1000	mm		
Asl =	565	mm^2	(1ϕ12/20)	
N_{Ed} =	**0.00**	kN		
σ_{cp} =N_{Ed}/Ac =	0.000	N/mm^2	≤ 0,2*fcd	

Verifica a taglio sezione d-d				
Elementi senza armatura trasversale a taglio				
- Verifica del conglomerato				
VRd =[0,18*k*(100*ρ1*f_{ck})$^{1/3}$/γc+0,15*σcp]*bw*d =			**107.36**	kN
VEd =	**31.62**	**kN**	ok	
con:				
K = 1+(200/d)$^{1/2}$ =	1.933		$\leq$ 2	
Rck =	40	N/mm^2		
v_{min} = 0,035*k$^{3/2}$*fck$^{1/2}$ =	0.542	N/mm^2		
fck =0,83*Rck =	33.2	N/mm^2		
fcd =α_{cc}*fck/γc =	18.81	N/mm^2		
ρ1 = Asl/(bw*d) =	0.00246		$\leq$ 0,02	
d =	230	mm		
H =	300	mm		
bw =	1000	mm		
Asl =	565	mm^2	(1ϕ12/20)	
N_{Ed} =	**0.00**	kN		
σ_{cp} =N_{Ed}/Ac =	0.000	N/mm^2	$\leq$ 0,2*fcd	

ALLEGATO 1 : TABULATI DI CALCOLO DELLA VASCA D' IMBOCCO

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Table: Area Loads - Gravity

Area	LoadPat	CoordSys	MultiplierX	MultiplierY	MultiplierZ
512	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
513	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
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1032	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
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1042	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1043	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
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1062	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1063	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1064	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
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1066	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1067	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1068	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1069	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1070	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1071	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
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1084	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1085	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1086	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1087	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1088	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1089	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1263	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1264	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1265	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1266	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1267	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1268	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1269	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
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1271	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1272	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1273	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1274	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1275	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1276	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1277	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
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1302	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1303	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1304	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1305	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
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1310	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1311	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1312	SISMICA	GLOBAL	0.000000	-0.344000	0.000000
1313	SISMICA	GLOBAL	0.000000	-0.344000	0.000000

Table: Area Loads - Surface Pressure

Area	LoadPat	Face	Pressure KN/m2	JtPattern
512	STATICA	Top	-1.00	STATICA
513	STATICA	Top	-1.00	STATICA
514	STATICA	Top	-1.00	STATICA
515	STATICA	Top	-1.00	STATICA
516	STATICA	Top	-1.00	STATICA
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1313	STATICA	Top	-1.00	STATICA

Table: Area Loads - Uniform

Area	LoadPat	CoordSys	Dir	UnifLoad KN/m2
512	SOVRAC	GLOBAL	Y	-8.52
512	SISMICA	GLOBAL	Y	-15.82
513	SOVRAC	GLOBAL	Y	-8.52
513	SISMICA	GLOBAL	Y	-15.82
514	SOVRAC	GLOBAL	Y	-8.52
514	SISMICA	GLOBAL	Y	-15.82
515	SOVRAC	GLOBAL	Y	-8.52
515	SISMICA	GLOBAL	Y	-15.82
516	SOVRAC	GLOBAL	Y	-8.52
516	SISMICA	GLOBAL	Y	-15.82
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517	SISMICA	GLOBAL	Y	-15.82
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518	SISMICA	GLOBAL	Y	-15.82
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519	SISMICA	GLOBAL	Y	-15.82
520	SOVRAC	GLOBAL	Y	-8.52
520	SISMICA	GLOBAL	Y	-15.82
521	SOVRAC	GLOBAL	Y	-8.52
521	SISMICA	GLOBAL	Y	-15.82
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522	SISMICA	GLOBAL	Y	-15.82
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523	SISMICA	GLOBAL	Y	-15.82
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524	SISMICA	GLOBAL	Y	-15.82
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525	SISMICA	GLOBAL	Y	-15.82
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526	SISMICA	GLOBAL	Y	-15.82
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527	SISMICA	GLOBAL	Y	-15.82
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528	SISMICA	GLOBAL	Y	-15.82
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529	SISMICA	GLOBAL	Y	-15.82
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1288	POZZ	Default
1289	POZZ	Default
1290	POZZ	Default
1291	POZZ	Default
1292	POZZ	Default
1293	POZZ	Default
1294	POZZ	Default
1295	POZZ	Default
1296	POZZ	Default
1297	POZZ	Default
1298	POZZ	Default
1299	POZZ	Default
1300	POZZ	Default
1301	POZZ	Default
1302	POZZ	Default
1303	POZZ	Default
1304	POZZ	Default
1305	POZZ	Default
1306	POZZ	Default
1307	POZZ	Default
1308	POZZ	Default
1309	POZZ	Default
1310	POZZ	Default
1311	POZZ	Default
1312	POZZ	Default
1313	POZZ	Default

Table: Area Section Properties, Part 1 of 4

Section	Material	MatAngle	AreaType	Type	DrillDOF	Thickness	BendThick	Arc
		Degrees				m	m	Degrees
POZZ	CONC	0.000	Shell	Shell-Thick	Yes	0.300000	0.300000	

Table: Area Section Properties, Part 2 of 4

Section	InComp	CoordSys	Color	TotalWt	TotalMass	F11Mod	F22Mod
				KN	KN-s2/m		
POZZ			2	75.900	7.59	1.000000	1.000000

Table: Area Section Properties, Part 3 of 4

Section	F12Mod	M11Mod	M22Mod	M12Mod	V13Mod	V23Mod	MMod	WMod
POZZ	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

Table: Area Section Properties, Part 4 of 4

Section	GUID	Notes
POZZ		

Table: Area Section Property Design Parameters

Section	RebarMat	RebarOpt
POZZ	None	Default

Table: Case - Static 1 - Load Assignments

Case	LoadType	LoadName	LoadSF
STATICA	Load pattern	STATICA	1.000000
SISMICA	Load pattern	SISMICA	1.000000
LOAD	Load pattern	LOAD	1.000000
SOVRAC	Load pattern	SOVRAC	1.000000

Table: Combination Definitions, Part 1 of 3

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor	SteelDesign
SLU1	Linear Add	No	Linear Static	LOAD	1.350000	No
SLU1			Linear Static	STATICA	1.350000	
SLU2	Linear Add	No	Linear Static	LOAD	1.350000	No
SLU2			Linear Static	STATICA	1.350000	
SLU2			Linear Static	SOVRAC	1.500000	
SISM1	Linear Add	No	Linear Static	LOAD	1.000000	No
SISM1			Linear Static	STATICA	1.000000	
SISM1			Linear Static	SISMICA	1.000000	
SLE1	Linear Add	No	Linear Static	LOAD	1.000000	No
SLE1			Linear Static	STATICA	1.000000	
SLE2	Linear Add	No	Linear Static	LOAD	1.000000	No
SLE2			Linear Static	STATICA	1.000000	
SLE2			Linear Static	SOVRAC	1.000000	
INVSLE	Envelope	No	Response Combo	SLE1	1.000000	No
INVSLE			Response Combo	SLE2	1.000000	
INVSLU	Envelope	No	Response Combo	SLU1	1.000000	No
INVSLU			Response Combo	SLU2	1.000000	
INVSLU			Response Combo	SISM1	1.000000	

Table: Combination Definitions, Part 2 of 3

ComboName	CaseName	ConcDesign	AlumDesign	ColdDesign	GUID
SLU1	LOAD	No	No	No	
SLU1	STATICA				
SLU2	LOAD	No	No	No	
SLU2	STATICA				
SLU2	SOVRAC				
SISM1	LOAD	No	No	No	
SISM1	STATICA				
SISM1	SISMICA				
SLE1	LOAD	No	No	No	
SLE1	STATICA				
SLE2	LOAD	No	No	No	
SLE2	STATICA				

SLE2	SOVRAC			
INVSLE	SLE1	No	No	No
INVSLE	SLE2			
INVSLU	SLU1	No	No	No
INVSLU	SLU2			
INVSLU	SISM1			

Table: Combination Definitions, Part 3 of 3

ComboName	CaseName	Notes
SLU1	LOAD	
SLU1	STATICA	
SLU2	LOAD	
SLU2	STATICA	
SLU2	SOVRAC	
SISM1	LOAD	
SISM1	STATICA	
SISM1	SISMICA	
SLE1	LOAD	
SLE1	STATICA	
SLE2	LOAD	
SLE2	STATICA	
SLE2	SOVRAC	
INVSLE	SLE1	
INVSLE	SLE2	
INVSLU	SLU1	
INVSLU	SLU2	
INVSLU	SISM1	

Table: Connectivity - Area, Part 1 of 2

Area	NumJoints	Joint1	Joint2	Joint3	Joint4	Perimeter m	AreaArea m2
512	4	1015	1050	1051	1016	0.535247	0.017644
513	4	1016	1051	1052	1017	0.535247	0.017644
514	4	1017	1052	1053	1018	0.535247	0.017644
515	4	1018	1053	1054	1019	0.535247	0.017644
516	4	1019	1054	1055	1020	0.535247	0.017644
517	4	1020	1055	1056	1021	0.535247	0.017644
518	4	1021	1056	1057	1022	0.535247	0.017644
519	4	1022	1057	1058	1023	0.535247	0.017644
520	4	1023	1058	1059	1024	0.535247	0.017644
521	4	1024	1059	1060	1025	0.535247	0.017644
522	4	1025	1060	1061	1026	0.535247	0.017644
523	4	1026	1061	1062	1027	0.535247	0.017644
524	4	1027	1062	1063	1028	0.535247	0.017644
525	4	1028	1063	1064	1029	0.535247	0.017644
526	4	1029	1064	1065	1030	0.535247	0.017644
527	4	1030	1065	1066	1031	0.535247	0.017644
528	4	1031	1066	1067	1032	0.535247	0.017644
529	4	1032	1067	1068	1033	0.535247	0.017644
530	4	1033	1068	1069	1034	0.535247	0.017644
531	4	1034	1069	1070	1035	0.535247	0.017644
532	4	1035	1070	1071	1036	0.535247	0.017644
533	4	1036	1071	1072	1037	0.535247	0.017644
534	4	1037	1072	1073	1038	0.535247	0.017644
535	4	1038	1073	1074	1039	0.535247	0.017644
536	4	1039	1074	1075	1040	0.535247	0.017644
537	4	1040	1075	1076	1041	0.535247	0.017644
538	4	1041	1076	1077	1042	0.535247	0.017644
539	4	1042	1077	1078	1043	0.535247	0.017644
540	4	1043	1078	1079	1044	0.535247	0.017644
541	4	1044	1079	1080	1045	0.535247	0.017644
542	4	1045	1080	1081	1046	0.535247	0.017644
543	4	1046	1081	1082	1047	0.535247	0.017644
544	4	1047	1082	1083	1048	0.535247	0.017644
545	4	1048	1083	1084	1049	0.535247	0.017644
546	4	1050	1085	1086	1051	0.504047	0.015809
547	4	1051	1086	1087	1052	0.504047	0.015809
548	4	1052	1087	1088	1053	0.504047	0.015809
549	4	1053	1088	1089	1054	0.504047	0.015809
550	4	1054	1089	1090	1055	0.504047	0.015809
551	4	1055	1090	1091	1056	0.504047	0.015809

552	4	1056	1091	1092	1057	0.504047	0.015809
553	4	1057	1092	1093	1058	0.504047	0.015809
554	4	1058	1093	1094	1059	0.504047	0.015809
555	4	1059	1094	1095	1060	0.504047	0.015809
556	4	1060	1095	1096	1061	0.504047	0.015809
557	4	1061	1096	1097	1062	0.504047	0.015809
558	4	1062	1097	1098	1063	0.504047	0.015809
559	4	1063	1098	1099	1064	0.504047	0.015809
560	4	1064	1099	1100	1065	0.504047	0.015809
561	4	1065	1100	1101	1066	0.504047	0.015809
562	4	1066	1101	1102	1067	0.504047	0.015809
563	4	1067	1102	1103	1068	0.504047	0.015809
564	4	1068	1103	1104	1069	0.504047	0.015809
565	4	1069	1104	1105	1070	0.504047	0.015809
566	4	1070	1105	1106	1071	0.504047	0.015809
567	4	1071	1106	1107	1072	0.504047	0.015809
568	4	1072	1107	1108	1073	0.504047	0.015809
569	4	1073	1108	1109	1074	0.504047	0.015809
570	4	1074	1109	1110	1075	0.504047	0.015809
571	4	1075	1110	1111	1076	0.504047	0.015809
572	4	1076	1111	1112	1077	0.504047	0.015809
573	4	1077	1112	1113	1078	0.504047	0.015809
574	4	1078	1113	1114	1079	0.504047	0.015809
575	4	1079	1114	1115	1080	0.504047	0.015809
576	4	1080	1115	1116	1081	0.504047	0.015809
577	4	1081	1116	1117	1082	0.504047	0.015809
578	4	1082	1117	1118	1083	0.504047	0.015809
579	4	1083	1118	1119	1084	0.504047	0.015809
580	4	1085	1120	1121	1086	0.504047	0.015809
581	4	1086	1121	1122	1087	0.504047	0.015809
582	4	1087	1122	1123	1088	0.504047	0.015809
583	4	1088	1123	1124	1089	0.504047	0.015809
584	4	1089	1124	1125	1090	0.504047	0.015809
585	4	1090	1125	1126	1091	0.504047	0.015809
586	4	1091	1126	1127	1092	0.504047	0.015809
587	4	1092	1127	1128	1093	0.504047	0.015809
588	4	1093	1128	1129	1094	0.504047	0.015809
589	4	1094	1129	1130	1095	0.504047	0.015809
590	4	1095	1130	1131	1096	0.504047	0.015809
591	4	1096	1131	1132	1097	0.504047	0.015809
592	4	1097	1132	1133	1098	0.504047	0.015809
593	4	1098	1133	1134	1099	0.504047	0.015809
594	4	1099	1134	1135	1100	0.504047	0.015809
595	4	1100	1135	1136	1101	0.504047	0.015809
596	4	1101	1136	1137	1102	0.504047	0.015809
597	4	1102	1137	1138	1103	0.504047	0.015809
598	4	1103	1138	1139	1104	0.504047	0.015809
599	4	1104	1139	1140	1105	0.504047	0.015809
600	4	1105	1140	1141	1106	0.504047	0.015809
601	4	1106	1141	1142	1107	0.504047	0.015809
602	4	1107	1142	1143	1108	0.504047	0.015809
603	4	1108	1143	1144	1109	0.504047	0.015809
604	4	1109	1144	1145	1110	0.504047	0.015809
605	4	1110	1145	1146	1111	0.504047	0.015809
606	4	1111	1146	1147	1112	0.504047	0.015809
607	4	1112	1147	1148	1113	0.504047	0.015809
608	4	1113	1148	1149	1114	0.504047	0.015809
609	4	1114	1149	1150	1115	0.504047	0.015809
610	4	1115	1150	1151	1116	0.504047	0.015809
611	4	1116	1151	1152	1117	0.504047	0.015809
612	4	1117	1152	1153	1118	0.504047	0.015809
613	4	1118	1153	1154	1119	0.504047	0.015809
614	4	1120	1155	1156	1121	0.504047	0.015809
615	4	1121	1156	1157	1122	0.504047	0.015809
616	4	1122	1157	1158	1123	0.504047	0.015809
617	4	1123	1158	1159	1124	0.504047	0.015809
618	4	1124	1159	1160	1125	0.504047	0.015809
619	4	1125	1160	1161	1126	0.504047	0.015809
620	4	1126	1161	1162	1127	0.504047	0.015809
621	4	1127	1162	1163	1128	0.504047	0.015809
622	4	1128	1163	1164	1129	0.504047	0.015809
623	4	1129	1164	1165	1130	0.504047	0.015809
624	4	1130	1165	1166	1131	0.504047	0.015809
625	4	1131	1166	1167	1132	0.504047	0.015809
626	4	1132	1167	1168	1133	0.504047	0.015809
627	4	1133	1168	1169	1134	0.504047	0.015809
628	4	1134	1169	1170	1135	0.504047	0.015809
629	4	1135	1170	1171	1136	0.504047	0.015809

630	4	1136	1171	1172	1137	0.504047	0.015809
631	4	1137	1172	1173	1138	0.504047	0.015809
632	4	1138	1173	1174	1139	0.504047	0.015809
633	4	1139	1174	1175	1140	0.504047	0.015809
634	4	1140	1175	1176	1141	0.504047	0.015809
635	4	1141	1176	1177	1142	0.504047	0.015809
636	4	1142	1177	1178	1143	0.504047	0.015809
637	4	1143	1178	1179	1144	0.504047	0.015809
638	4	1144	1179	1180	1145	0.504047	0.015809
639	4	1145	1180	1181	1146	0.504047	0.015809
640	4	1146	1181	1182	1147	0.504047	0.015809
641	4	1147	1182	1183	1148	0.504047	0.015809
642	4	1148	1183	1184	1149	0.504047	0.015809
643	4	1149	1184	1185	1150	0.504047	0.015809
644	4	1150	1185	1186	1151	0.504047	0.015809
645	4	1151	1186	1187	1152	0.504047	0.015809
646	4	1152	1187	1188	1153	0.504047	0.015809
647	4	1153	1188	1189	1154	0.504047	0.015809
648	4	1155	1190	1191	1156	0.504047	0.015809
649	4	1156	1191	1192	1157	0.504047	0.015809
650	4	1157	1192	1193	1158	0.504047	0.015809
651	4	1158	1193	1194	1159	0.504047	0.015809
652	4	1159	1194	1195	1160	0.504047	0.015809
653	4	1160	1195	1196	1161	0.504047	0.015809
654	4	1161	1196	1197	1162	0.504047	0.015809
655	4	1162	1197	1198	1163	0.504047	0.015809
656	4	1163	1198	1199	1164	0.504047	0.015809
657	4	1164	1199	1200	1165	0.504047	0.015809
658	4	1165	1200	1201	1166	0.504047	0.015809
659	4	1166	1201	1202	1167	0.504047	0.015809
660	4	1167	1202	1203	1168	0.504047	0.015809
661	4	1168	1203	1204	1169	0.504047	0.015809
662	4	1169	1204	1205	1170	0.504047	0.015809
663	4	1170	1205	1206	1171	0.504047	0.015809
664	4	1171	1206	1207	1172	0.504047	0.015809
665	4	1172	1207	1208	1173	0.504047	0.015809
666	4	1173	1208	1209	1174	0.504047	0.015809
667	4	1174	1209	1210	1175	0.504047	0.015809
668	4	1175	1210	1211	1176	0.504047	0.015809
669	4	1176	1211	1212	1177	0.504047	0.015809
670	4	1177	1212	1213	1178	0.504047	0.015809
671	4	1178	1213	1214	1179	0.504047	0.015809
672	4	1179	1214	1215	1180	0.504047	0.015809
673	4	1180	1215	1216	1181	0.504047	0.015809
674	4	1181	1216	1217	1182	0.504047	0.015809
675	4	1182	1217	1218	1183	0.504047	0.015809
676	4	1183	1218	1219	1184	0.504047	0.015809
677	4	1184	1219	1220	1185	0.504047	0.015809
678	4	1185	1220	1221	1186	0.504047	0.015809
679	4	1186	1221	1222	1187	0.504047	0.015809
680	4	1187	1222	1223	1188	0.504047	0.015809
681	4	1188	1223	1224	1189	0.504047	0.015809
682	4	1190	1225	1226	1191	0.504047	0.015809
683	4	1191	1226	1227	1192	0.504047	0.015809
684	4	1192	1227	1228	1193	0.504047	0.015809
685	4	1193	1228	1229	1194	0.504047	0.015809
686	4	1194	1229	1230	1195	0.504047	0.015809
687	4	1195	1230	1231	1196	0.504047	0.015809
688	4	1196	1231	1232	1197	0.504047	0.015809
689	4	1197	1232	1233	1198	0.504047	0.015809
690	4	1198	1233	1234	1199	0.504047	0.015809
691	4	1199	1234	1235	1200	0.504047	0.015809
692	4	1200	1235	1236	1201	0.504047	0.015809
693	4	1201	1236	1237	1202	0.504047	0.015809
694	4	1202	1237	1238	1203	0.504047	0.015809
695	4	1203	1238	1239	1204	0.504047	0.015809
696	4	1204	1239	1240	1205	0.504047	0.015809
697	4	1205	1240	1241	1206	0.504047	0.015809
698	4	1206	1241	1242	1207	0.504047	0.015809
699	4	1207	1242	1243	1208	0.504047	0.015809
700	4	1208	1243	1244	1209	0.504047	0.015809
701	4	1209	1244	1245	1210	0.504047	0.015809
702	4	1210	1245	1246	1211	0.504047	0.015809
703	4	1211	1246	1247	1212	0.504047	0.015809
704	4	1212	1247	1248	1213	0.504047	0.015809
705	4	1213	1248	1249	1214	0.504047	0.015809
706	4	1214	1249	1250	1215	0.504047	0.015809
707	4	1215	1250	1251	1216	0.504047	0.015809

708	4	1216	1251	1252	1217	0.504047	0.015809
709	4	1217	1252	1253	1218	0.504047	0.015809
710	4	1218	1253	1254	1219	0.504047	0.015809
711	4	1219	1254	1255	1220	0.504047	0.015809
712	4	1220	1255	1256	1221	0.504047	0.015809
713	4	1221	1256	1257	1222	0.504047	0.015809
714	4	1222	1257	1258	1223	0.504047	0.015809
715	4	1223	1258	1259	1224	0.504047	0.015809
716	4	1225	1260	1261	1226	0.504047	0.015809
717	4	1226	1261	1262	1227	0.504047	0.015809
718	4	1227	1262	1263	1228	0.504047	0.015809
719	4	1228	1263	1264	1229	0.504047	0.015809
720	4	1229	1264	1265	1230	0.504047	0.015809
721	4	1230	1265	1266	1231	0.504047	0.015809
722	4	1231	1266	1267	1232	0.504047	0.015809
723	4	1232	1267	1268	1233	0.504047	0.015809
724	4	1233	1268	1269	1234	0.504047	0.015809
725	4	1234	1269	1270	1235	0.504047	0.015809
726	4	1235	1270	1271	1236	0.504047	0.015809
727	4	1236	1271	1272	1237	0.504047	0.015809
728	4	1237	1272	1273	1238	0.504047	0.015809
729	4	1238	1273	1274	1239	0.504047	0.015809
730	4	1239	1274	1275	1240	0.504047	0.015809
731	4	1240	1275	1276	1241	0.504047	0.015809
732	4	1241	1276	1277	1242	0.504047	0.015809
733	4	1242	1277	1278	1243	0.504047	0.015809
734	4	1243	1278	1279	1244	0.504047	0.015809
735	4	1244	1279	1280	1245	0.504047	0.015809
736	4	1245	1280	1281	1246	0.504047	0.015809
737	4	1246	1281	1282	1247	0.504047	0.015809
738	4	1247	1282	1283	1248	0.504047	0.015809
739	4	1248	1283	1284	1249	0.504047	0.015809
740	4	1249	1284	1285	1250	0.504047	0.015809
741	4	1250	1285	1286	1251	0.504047	0.015809
742	4	1251	1286	1287	1252	0.504047	0.015809
743	4	1252	1287	1288	1253	0.504047	0.015809
744	4	1253	1288	1289	1254	0.504047	0.015809
745	4	1254	1289	1290	1255	0.504047	0.015809
746	4	1255	1290	1291	1256	0.504047	0.015809
747	4	1256	1291	1292	1257	0.504047	0.015809
748	4	1257	1292	1293	1258	0.504047	0.015809
749	4	1258	1293	1294	1259	0.504047	0.015809
750	4	1260	1295	1296	1261	0.504047	0.015809
751	4	1261	1296	1297	1262	0.504047	0.015809
752	4	1262	1297	1298	1263	0.504047	0.015809
753	4	1263	1298	1299	1264	0.504047	0.015809
754	4	1264	1299	1300	1265	0.504047	0.015809
755	4	1265	1300	1301	1266	0.504047	0.015809
756	4	1266	1301	1302	1267	0.504047	0.015809
757	4	1267	1302	1303	1268	0.504047	0.015809
758	4	1268	1303	1304	1269	0.504047	0.015809
759	4	1269	1304	1305	1270	0.504047	0.015809
760	4	1270	1305	1306	1271	0.504047	0.015809
761	4	1271	1306	1307	1272	0.504047	0.015809
762	4	1272	1307	1308	1273	0.504047	0.015809
763	4	1273	1308	1309	1274	0.504047	0.015809
764	4	1274	1309	1310	1275	0.504047	0.015809
765	4	1275	1310	1311	1276	0.504047	0.015809
766	4	1276	1311	1312	1277	0.504047	0.015809
767	4	1277	1312	1313	1278	0.504047	0.015809
768	4	1278	1313	1314	1279	0.504047	0.015809
769	4	1279	1314	1315	1280	0.504047	0.015809
770	4	1280	1315	1316	1281	0.504047	0.015809
771	4	1281	1316	1317	1282	0.504047	0.015809
772	4	1282	1317	1318	1283	0.504047	0.015809
773	4	1283	1318	1319	1284	0.504047	0.015809
774	4	1284	1319	1320	1285	0.504047	0.015809
775	4	1285	1320	1321	1286	0.504047	0.015809
776	4	1286	1321	1322	1287	0.504047	0.015809
777	4	1287	1322	1323	1288	0.504047	0.015809
778	4	1288	1323	1324	1289	0.504047	0.015809
779	4	1289	1324	1325	1290	0.504047	0.015809
780	4	1290	1325	1326	1291	0.504047	0.015809
781	4	1291	1326	1327	1292	0.504047	0.015809
782	4	1292	1327	1328	1293	0.504047	0.015809
783	4	1293	1328	1329	1294	0.504047	0.015809
784	4	1295	1330	1331	1296	0.504047	0.015809
785	4	1296	1331	1332	1297	0.504047	0.015809

786	4	1297	1332	1333	1298	0.504047	0.015809
787	4	1298	1333	1334	1299	0.504047	0.015809
788	4	1299	1334	1335	1300	0.504047	0.015809
789	4	1300	1335	1336	1301	0.504047	0.015809
790	4	1301	1336	1337	1302	0.504047	0.015809
791	4	1302	1337	1338	1303	0.504047	0.015809
792	4	1303	1338	1339	1304	0.504047	0.015809
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795	4	1306	1341	1342	1307	0.504047	0.015809
796	4	1307	1342	1343	1308	0.504047	0.015809
797	4	1308	1343	1344	1309	0.504047	0.015809
798	4	1309	1344	1345	1310	0.504047	0.015809
799	4	1310	1345	1346	1311	0.504047	0.015809
800	4	1311	1346	1347	1312	0.504047	0.015809
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804	4	1315	1350	1351	1316	0.504047	0.015809
805	4	1316	1351	1352	1317	0.504047	0.015809
806	4	1317	1352	1353	1318	0.504047	0.015809
807	4	1318	1353	1354	1319	0.504047	0.015809
808	4	1319	1354	1355	1320	0.504047	0.015809
809	4	1320	1355	1356	1321	0.504047	0.015809
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812	4	1323	1358	1359	1324	0.504047	0.015809
813	4	1324	1359	1360	1325	0.504047	0.015809
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815	4	1326	1361	1362	1327	0.504047	0.015809
816	4	1327	1362	1363	1328	0.504047	0.015809
817	4	1328	1363	1364	1329	0.504047	0.015809
818	4	1330	1365	1366	1331	0.504047	0.015809
819	4	1331	1366	1367	1332	0.504047	0.015809
820	4	1332	1367	1368	1333	0.504047	0.015809
821	4	1333	1368	1369	1334	0.504047	0.015809
822	4	1334	1369	1370	1335	0.504047	0.015809
823	4	1335	1370	1371	1336	0.504047	0.015809
824	4	1336	1371	1372	1337	0.504047	0.015809
825	4	1337	1372	1373	1338	0.504047	0.015809
826	4	1338	1373	1374	1339	0.504047	0.015809
827	4	1339	1374	1375	1340	0.504047	0.015809
828	4	1340	1375	1376	1341	0.504047	0.015809
829	4	1341	1376	1377	1342	0.504047	0.015809
830	4	1342	1377	1378	1343	0.504047	0.015809
831	4	1343	1378	1379	1344	0.504047	0.015809
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834	4	1346	1381	1382	1347	0.504047	0.015809
835	4	1347	1382	1383	1348	0.504047	0.015809
836	4	1348	1383	1384	1349	0.504047	0.015809
837	4	1349	1384	1385	1350	0.504047	0.015809
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839	4	1351	1386	1387	1352	0.504047	0.015809
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844	4	1356	1391	1392	1357	0.504047	0.015809
845	4	1357	1392	1393	1358	0.504047	0.015809
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853	4	1366	1401	1402	1367	0.504047	0.015809
854	4	1367	1402	1403	1368	0.504047	0.015809
855	4	1368	1403	1404	1369	0.504047	0.015809
856	4	1369	1404	1405	1370	0.504047	0.015809
857	4	1370	1405	1406	1371	0.504047	0.015809
858	4	1371	1406	1407	1372	0.504047	0.015809
859	4	1372	1407	1408	1373	0.504047	0.015809
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862	4	1375	1410	1411	1376	0.504047	0.015809
863	4	1376	1411	1412	1377	0.504047	0.015809

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865	4	1378	1413	1414	1379	0.504047	0.015809
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867	4	1380	1415	1416	1381	0.504047	0.015809
868	4	1381	1416	1417	1382	0.504047	0.015809
869	4	1382	1417	1418	1383	0.504047	0.015809
870	4	1383	1418	1419	1384	0.504047	0.015809
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895	4	1409	1444	1445	1410	0.504047	0.015809
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905	4	1419	1454	1455	1420	0.504047	0.015809
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909	4	1423	1458	1459	1424	0.504047	0.015809
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913	4	1427	1462	1463	1428	0.504047	0.015809
914	4	1428	1463	1464	1429	0.504047	0.015809
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916	4	1430	1465	1466	1431	0.504047	0.015809
917	4	1431	1466	1467	1432	0.504047	0.015809
918	4	1432	1467	1468	1433	0.504047	0.015809
919	4	1433	1468	1469	1434	0.504047	0.015809
920	4	1435	1470	1471	1436	0.504047	0.015809
921	4	1436	1471	1472	1437	0.504047	0.015809
922	4	1437	1472	1473	1438	0.504047	0.015809
923	4	1438	1473	1474	1439	0.504047	0.015809
924	4	1439	1474	1475	1440	0.504047	0.015809
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926	4	1441	1476	1477	1442	0.504047	0.015809
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946	4	1461	1496	1497	1462	0.504047	0.015809
947	4	1462	1497	1498	1463	0.504047	0.015809
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949	4	1464	1499	1500	1465	0.504047	0.015809
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954	4	1470	1505	1506	1471	0.504047	0.015809
955	4	1471	1506	1507	1472	0.504047	0.015809
956	4	1472	1507	1508	1473	0.504047	0.015809
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958	4	1474	1509	1510	1475	0.504047	0.015809
959	4	1475	1510	1511	1476	0.504047	0.015809
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966	4	1482	1517	1518	1483	0.504047	0.015809
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968	4	1484	1519	1520	1485	0.504047	0.015809
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971	4	1487	1522	1523	1488	0.504047	0.015809
972	4	1488	1523	1524	1489	0.504047	0.015809
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974	4	1490	1525	1526	1491	0.504047	0.015809
975	4	1491	1526	1527	1492	0.504047	0.015809
976	4	1492	1527	1528	1493	0.504047	0.015809
977	4	1493	1528	1529	1494	0.504047	0.015809
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983	4	1499	1534	1535	1500	0.504047	0.015809
984	4	1500	1535	1536	1501	0.504047	0.015809
985	4	1501	1536	1537	1502	0.504047	0.015809
986	4	1502	1537	1538	1503	0.504047	0.015809
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1019	4	1536	1571	1572	1537	0.504047	0.015809

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1036	4	1554	1589	1590	1555	0.504047	0.015809
1037	4	1555	1590	1591	1556	0.504047	0.015809
1038	4	1556	1591	1592	1557	0.504047	0.015809
1039	4	1557	1592	1593	1558	0.504047	0.015809
1040	4	1558	1593	1594	1559	0.504047	0.015809
1041	4	1559	1594	1595	1560	0.504047	0.015809
1042	4	1560	1595	1596	1561	0.504047	0.015809
1043	4	1561	1596	1597	1562	0.504047	0.015809
1044	4	1562	1597	1598	1563	0.504047	0.015809
1045	4	1563	1598	1599	1564	0.504047	0.015809
1046	4	1564	1599	1600	1565	0.504047	0.015809
1047	4	1565	1600	1601	1566	0.504047	0.015809
1048	4	1566	1601	1602	1567	0.504047	0.015809
1049	4	1567	1602	1603	1568	0.504047	0.015809
1050	4	1568	1603	1604	1569	0.504047	0.015809
1051	4	1569	1604	1605	1570	0.504047	0.015809
1052	4	1570	1605	1606	1571	0.504047	0.015809
1053	4	1571	1606	1607	1572	0.504047	0.015809
1054	4	1572	1607	1608	1573	0.504047	0.015809
1055	4	1573	1608	1609	1574	0.504047	0.015809
1056	4	1575	1	1610	1576	0.504047	0.015809
1057	4	1576	1610	1611	1577	0.504047	0.015809
1058	4	1577	1611	1612	1578	0.504047	0.015809
1059	4	1578	1612	1613	1579	0.504047	0.015809
1060	4	1579	1613	1614	1580	0.504047	0.015809
1061	4	1580	1614	1615	1581	0.504047	0.015809
1062	4	1581	1615	1616	1582	0.504047	0.015809
1063	4	1582	1616	1617	1583	0.504047	0.015809
1064	4	1583	1617	1618	1584	0.504047	0.015809
1065	4	1584	1618	1619	1585	0.504047	0.015809
1066	4	1585	1619	1620	1586	0.504047	0.015809
1067	4	1586	1620	1621	1587	0.504047	0.015809
1068	4	1587	1621	1622	1588	0.504047	0.015809
1069	4	1588	1622	1623	1589	0.504047	0.015809
1070	4	1589	1623	1624	1590	0.504047	0.015809
1071	4	1590	1624	1625	1591	0.504047	0.015809
1072	4	1591	1625	1626	1592	0.504047	0.015809
1073	4	1592	1626	1627	1593	0.504047	0.015809
1074	4	1593	1627	1628	1594	0.504047	0.015809
1075	4	1594	1628	1629	1595	0.504047	0.015809
1076	4	1595	1629	1630	1596	0.504047	0.015809
1077	4	1596	1630	1631	1597	0.504047	0.015809
1078	4	1597	1631	1632	1598	0.504047	0.015809
1079	4	1598	1632	1633	1599	0.504047	0.015809
1080	4	1599	1633	1634	1600	0.504047	0.015809
1081	4	1600	1634	1635	1601	0.504047	0.015809
1082	4	1601	1635	1636	1602	0.504047	0.015809
1083	4	1602	1636	1637	1603	0.504047	0.015809
1084	4	1603	1637	1638	1604	0.504047	0.015809
1085	4	1604	1638	1639	1605	0.504047	0.015809
1086	4	1605	1639	1640	1606	0.504047	0.015809
1087	4	1606	1640	1641	1607	0.504047	0.015809
1088	4	1607	1641	1642	1608	0.504047	0.015809
1089	4	1608	1642	443	1609	0.504047	0.015809
1263	4	1049	1084	195	193	0.566620	0.019997
1264	4	193	195	196	194	0.566620	0.019997
1265	4	194	196	19	18	0.566620	0.019997
1266	4	1084	1119	197	195	0.535420	0.017917
1267	4	195	197	198	196	0.535420	0.017917
1268	4	196	198	20	19	0.535420	0.017917
1269	4	1119	1154	199	197	0.535420	0.017917
1270	4	197	199	200	198	0.535420	0.017917

1271	4	198	200	21	20	0.535420	0.017917
1272	4	1154	1189	201	199	0.535420	0.017917
1273	4	199	201	202	200	0.535420	0.017917
1274	4	200	202	22	21	0.535420	0.017917
1275	4	1189	1224	203	201	0.535420	0.017917
1276	4	201	203	204	202	0.535420	0.017917
1277	4	202	204	23	22	0.535420	0.017917
1278	4	1224	1259	205	203	0.535420	0.017917
1279	4	203	205	206	204	0.535420	0.017917
1280	4	204	206	24	23	0.535420	0.017917
1281	4	1259	1294	207	205	0.535420	0.017917
1282	4	205	207	208	206	0.535420	0.017917
1283	4	206	208	25	24	0.535420	0.017917
1284	4	1294	1329	209	207	0.535420	0.017917
1285	4	207	209	210	208	0.535420	0.017917
1286	4	208	210	26	25	0.535420	0.017917
1287	4	1329	1364	211	209	0.535420	0.017917
1288	4	209	211	212	210	0.535420	0.017917
1289	4	210	212	27	26	0.535420	0.017917
1290	4	1364	1399	213	211	0.535420	0.017917
1291	4	211	213	214	212	0.535420	0.017917
1292	4	212	214	28	27	0.535420	0.017917
1293	4	1399	1434	215	213	0.535420	0.017917
1294	4	213	215	216	214	0.535420	0.017917
1295	4	214	216	29	28	0.535420	0.017917
1296	4	1434	1469	217	215	0.535420	0.017917
1297	4	215	217	218	216	0.535420	0.017917
1298	4	216	218	30	29	0.535420	0.017917
1299	4	1469	1504	219	217	0.535420	0.017917
1300	4	217	219	220	218	0.535420	0.017917
1301	4	218	220	31	30	0.535420	0.017917
1302	4	1504	1539	221	219	0.535420	0.017917
1303	4	219	221	222	220	0.535420	0.017917
1304	4	220	222	32	31	0.535420	0.017917
1305	4	1539	1574	223	221	0.535420	0.017917
1306	4	221	223	224	222	0.535420	0.017917
1307	4	222	224	33	32	0.535420	0.017917
1308	4	1574	1609	225	223	0.535420	0.017917
1309	4	223	225	226	224	0.535420	0.017917
1310	4	224	226	34	33	0.535420	0.017917
1311	4	1609	443	227	225	0.535420	0.017917
1312	4	225	227	228	226	0.535420	0.017917
1313	4	226	228	2	34	0.535420	0.017917

Table: Connectivity - Area, Part 2 of 2

Area	Volume	CentroidX	CentroidY	CentroidZ	GUID
	m3	m	m	m	
512	0.005293	0.05882	0.00000	2.22501	
513	0.005293	0.17647	0.00000	2.22501	
514	0.005293	0.29412	0.00000	2.22501	
515	0.005293	0.41176	0.00000	2.22501	
516	0.005293	0.52941	0.00000	2.22501	
517	0.005293	0.64706	0.00000	2.22501	
518	0.005293	0.76471	0.00000	2.22501	
519	0.005293	0.88235	0.00000	2.22501	
520	0.005293	1.00000	0.00000	2.22501	
521	0.005293	1.11765	0.00000	2.22501	
522	0.005293	1.23529	0.00000	2.22501	
523	0.005293	1.35294	0.00000	2.22501	
524	0.005293	1.47059	0.00000	2.22501	
525	0.005293	1.58824	0.00000	2.22501	
526	0.005293	1.70588	0.00000	2.22501	
527	0.005293	1.82353	0.00000	2.22501	
528	0.005293	1.94118	0.00000	2.22501	
529	0.005293	2.05882	0.00000	2.22501	
530	0.005293	2.17647	0.00000	2.22501	
531	0.005293	2.29412	0.00000	2.22501	
532	0.005293	2.41176	0.00000	2.22501	
533	0.005293	2.52941	0.00000	2.22501	
534	0.005293	2.64706	0.00000	2.22501	
535	0.005293	2.76471	0.00000	2.22501	
536	0.005293	2.88235	0.00000	2.22501	
537	0.005293	3.00000	0.00000	2.22501	
538	0.005293	3.11765	0.00000	2.22501	
539	0.005293	3.23529	0.00000	2.22501	

540	0.005293	3.35294	0.00000	2.22501
541	0.005293	3.47059	0.00000	2.22501
542	0.005293	3.58824	0.00000	2.22501
543	0.005293	3.70588	0.00000	2.22501
544	0.005293	3.82353	0.00000	2.22501
545	0.005293	3.94118	0.00000	2.22501
546	0.004743	0.05882	0.00000	2.08283
547	0.004743	0.17647	0.00000	2.08283
548	0.004743	0.29412	0.00000	2.08283
549	0.004743	0.41176	0.00000	2.08283
550	0.004743	0.52941	0.00000	2.08283
551	0.004743	0.64706	0.00000	2.08283
552	0.004743	0.76471	0.00000	2.08283
553	0.004743	0.88235	0.00000	2.08283
554	0.004743	1.00000	0.00000	2.08283
555	0.004743	1.11765	0.00000	2.08283
556	0.004743	1.23529	0.00000	2.08283
557	0.004743	1.35294	0.00000	2.08283
558	0.004743	1.47059	0.00000	2.08283
559	0.004743	1.58824	0.00000	2.08283
560	0.004743	1.70588	0.00000	2.08283
561	0.004743	1.82353	0.00000	2.08283
562	0.004743	1.94118	0.00000	2.08283
563	0.004743	2.05882	0.00000	2.08283
564	0.004743	2.17647	0.00000	2.08283
565	0.004743	2.29412	0.00000	2.08283
566	0.004743	2.41176	0.00000	2.08283
567	0.004743	2.52941	0.00000	2.08283
568	0.004743	2.64706	0.00000	2.08283
569	0.004743	2.76471	0.00000	2.08283
570	0.004743	2.88235	0.00000	2.08283
571	0.004743	3.00000	0.00000	2.08283
572	0.004743	3.11765	0.00000	2.08283
573	0.004743	3.23529	0.00000	2.08283
574	0.004743	3.35294	0.00000	2.08283
575	0.004743	3.47059	0.00000	2.08283
576	0.004743	3.58824	0.00000	2.08283
577	0.004743	3.70588	0.00000	2.08283
578	0.004743	3.82353	0.00000	2.08283
579	0.004743	3.94118	0.00000	2.08283
580	0.004743	0.05882	0.00000	1.94846
581	0.004743	0.17647	0.00000	1.94846
582	0.004743	0.29412	0.00000	1.94846
583	0.004743	0.41176	0.00000	1.94846
584	0.004743	0.52941	0.00000	1.94846
585	0.004743	0.64706	0.00000	1.94846
586	0.004743	0.76471	0.00000	1.94846
587	0.004743	0.88235	0.00000	1.94846
588	0.004743	1.00000	0.00000	1.94846
589	0.004743	1.11765	0.00000	1.94846
590	0.004743	1.23529	0.00000	1.94846
591	0.004743	1.35294	0.00000	1.94846
592	0.004743	1.47059	0.00000	1.94846
593	0.004743	1.58824	0.00000	1.94846
594	0.004743	1.70588	0.00000	1.94846
595	0.004743	1.82353	0.00000	1.94846
596	0.004743	1.94118	0.00000	1.94846
597	0.004743	2.05882	0.00000	1.94846
598	0.004743	2.17647	0.00000	1.94846
599	0.004743	2.29412	0.00000	1.94846
600	0.004743	2.41176	0.00000	1.94846
601	0.004743	2.52941	0.00000	1.94846
602	0.004743	2.64706	0.00000	1.94846
603	0.004743	2.76471	0.00000	1.94846
604	0.004743	2.88235	0.00000	1.94846
605	0.004743	3.00000	0.00000	1.94846
606	0.004743	3.11765	0.00000	1.94846
607	0.004743	3.23529	0.00000	1.94846
608	0.004743	3.35294	0.00000	1.94846
609	0.004743	3.47059	0.00000	1.94846
610	0.004743	3.58824	0.00000	1.94846
611	0.004743	3.70588	0.00000	1.94846
612	0.004743	3.82353	0.00000	1.94846
613	0.004743	3.94118	0.00000	1.94846
614	0.004743	0.05882	0.00000	1.81408
615	0.004743	0.17647	0.00000	1.81408
616	0.004743	0.29412	0.00000	1.81408
617	0.004743	0.41176	0.00000	1.81408

618	0.004743	0.52941	0.00000	1.81408
619	0.004743	0.64706	0.00000	1.81408
620	0.004743	0.76471	0.00000	1.81408
621	0.004743	0.88235	0.00000	1.81408
622	0.004743	1.00000	0.00000	1.81408
623	0.004743	1.11765	0.00000	1.81408
624	0.004743	1.23529	0.00000	1.81408
625	0.004743	1.35294	0.00000	1.81408
626	0.004743	1.47059	0.00000	1.81408
627	0.004743	1.58824	0.00000	1.81408
628	0.004743	1.70588	0.00000	1.81408
629	0.004743	1.82353	0.00000	1.81408
630	0.004743	1.94118	0.00000	1.81408
631	0.004743	2.05882	0.00000	1.81408
632	0.004743	2.17647	0.00000	1.81408
633	0.004743	2.29412	0.00000	1.81408
634	0.004743	2.41176	0.00000	1.81408
635	0.004743	2.52941	0.00000	1.81408
636	0.004743	2.64706	0.00000	1.81408
637	0.004743	2.76471	0.00000	1.81408
638	0.004743	2.88235	0.00000	1.81408
639	0.004743	3.00000	0.00000	1.81408
640	0.004743	3.11765	0.00000	1.81408
641	0.004743	3.23529	0.00000	1.81408
642	0.004743	3.35294	0.00000	1.81408
643	0.004743	3.47059	0.00000	1.81408
644	0.004743	3.58824	0.00000	1.81408
645	0.004743	3.70588	0.00000	1.81408
646	0.004743	3.82353	0.00000	1.81408
647	0.004743	3.94118	0.00000	1.81408
648	0.004743	0.05882	0.00000	1.67971
649	0.004743	0.17647	0.00000	1.67971
650	0.004743	0.29412	0.00000	1.67971
651	0.004743	0.41176	0.00000	1.67971
652	0.004743	0.52941	0.00000	1.67971
653	0.004743	0.64706	0.00000	1.67971
654	0.004743	0.76471	0.00000	1.67971
655	0.004743	0.88235	0.00000	1.67971
656	0.004743	1.00000	0.00000	1.67971
657	0.004743	1.11765	0.00000	1.67971
658	0.004743	1.23529	0.00000	1.67971
659	0.004743	1.35294	0.00000	1.67971
660	0.004743	1.47059	0.00000	1.67971
661	0.004743	1.58824	0.00000	1.67971
662	0.004743	1.70588	0.00000	1.67971
663	0.004743	1.82353	0.00000	1.67971
664	0.004743	1.94118	0.00000	1.67971
665	0.004743	2.05882	0.00000	1.67971
666	0.004743	2.17647	0.00000	1.67971
667	0.004743	2.29412	0.00000	1.67971
668	0.004743	2.41176	0.00000	1.67971
669	0.004743	2.52941	0.00000	1.67971
670	0.004743	2.64706	0.00000	1.67971
671	0.004743	2.76471	0.00000	1.67971
672	0.004743	2.88235	0.00000	1.67971
673	0.004743	3.00000	0.00000	1.67971
674	0.004743	3.11765	0.00000	1.67971
675	0.004743	3.23529	0.00000	1.67971
676	0.004743	3.35294	0.00000	1.67971
677	0.004743	3.47059	0.00000	1.67971
678	0.004743	3.58824	0.00000	1.67971
679	0.004743	3.70588	0.00000	1.67971
680	0.004743	3.82353	0.00000	1.67971
681	0.004743	3.94118	0.00000	1.67971
682	0.004743	0.05882	0.00000	1.54533
683	0.004743	0.17647	0.00000	1.54533
684	0.004743	0.29412	0.00000	1.54533
685	0.004743	0.41176	0.00000	1.54533
686	0.004743	0.52941	0.00000	1.54533
687	0.004743	0.64706	0.00000	1.54533
688	0.004743	0.76471	0.00000	1.54533
689	0.004743	0.88235	0.00000	1.54533
690	0.004743	1.00000	0.00000	1.54533
691	0.004743	1.11765	0.00000	1.54533
692	0.004743	1.23529	0.00000	1.54533
693	0.004743	1.35294	0.00000	1.54533
694	0.004743	1.47059	0.00000	1.54533
695	0.004743	1.58824	0.00000	1.54533

696	0.004743	1.70588	0.00000	1.54533
697	0.004743	1.82353	0.00000	1.54533
698	0.004743	1.94118	0.00000	1.54533
699	0.004743	2.05882	0.00000	1.54533
700	0.004743	2.17647	0.00000	1.54533
701	0.004743	2.29412	0.00000	1.54533
702	0.004743	2.41176	0.00000	1.54533
703	0.004743	2.52941	0.00000	1.54533
704	0.004743	2.64706	0.00000	1.54533
705	0.004743	2.76471	0.00000	1.54533
706	0.004743	2.88235	0.00000	1.54533
707	0.004743	3.00000	0.00000	1.54533
708	0.004743	3.11765	0.00000	1.54533
709	0.004743	3.23529	0.00000	1.54533
710	0.004743	3.35294	0.00000	1.54533
711	0.004743	3.47059	0.00000	1.54533
712	0.004743	3.58824	0.00000	1.54533
713	0.004743	3.70588	0.00000	1.54533
714	0.004743	3.82353	0.00000	1.54533
715	0.004743	3.94118	0.00000	1.54533
716	0.004743	0.05882	0.00000	1.41095
717	0.004743	0.17647	0.00000	1.41095
718	0.004743	0.29412	0.00000	1.41095
719	0.004743	0.41176	0.00000	1.41095
720	0.004743	0.52941	0.00000	1.41095
721	0.004743	0.64706	0.00000	1.41095
722	0.004743	0.76471	0.00000	1.41095
723	0.004743	0.88235	0.00000	1.41095
724	0.004743	1.00000	0.00000	1.41095
725	0.004743	1.11765	0.00000	1.41095
726	0.004743	1.23529	0.00000	1.41095
727	0.004743	1.35294	0.00000	1.41095
728	0.004743	1.47059	0.00000	1.41095
729	0.004743	1.58824	0.00000	1.41095
730	0.004743	1.70588	0.00000	1.41095
731	0.004743	1.82353	0.00000	1.41095
732	0.004743	1.94118	0.00000	1.41095
733	0.004743	2.05882	0.00000	1.41095
734	0.004743	2.17647	0.00000	1.41095
735	0.004743	2.29412	0.00000	1.41095
736	0.004743	2.41176	0.00000	1.41095
737	0.004743	2.52941	0.00000	1.41095
738	0.004743	2.64706	0.00000	1.41095
739	0.004743	2.76471	0.00000	1.41095
740	0.004743	2.88235	0.00000	1.41095
741	0.004743	3.00000	0.00000	1.41095
742	0.004743	3.11765	0.00000	1.41095
743	0.004743	3.23529	0.00000	1.41095
744	0.004743	3.35294	0.00000	1.41095
745	0.004743	3.47059	0.00000	1.41095
746	0.004743	3.58824	0.00000	1.41095
747	0.004743	3.70588	0.00000	1.41095
748	0.004743	3.82353	0.00000	1.41095
749	0.004743	3.94118	0.00000	1.41095
750	0.004743	0.05882	0.00000	1.27658
751	0.004743	0.17647	0.00000	1.27658
752	0.004743	0.29412	0.00000	1.27658
753	0.004743	0.41176	0.00000	1.27658
754	0.004743	0.52941	0.00000	1.27658
755	0.004743	0.64706	0.00000	1.27658
756	0.004743	0.76471	0.00000	1.27658
757	0.004743	0.88235	0.00000	1.27658
758	0.004743	1.00000	0.00000	1.27658
759	0.004743	1.11765	0.00000	1.27658
760	0.004743	1.23529	0.00000	1.27658
761	0.004743	1.35294	0.00000	1.27658
762	0.004743	1.47059	0.00000	1.27658
763	0.004743	1.58824	0.00000	1.27658
764	0.004743	1.70588	0.00000	1.27658
765	0.004743	1.82353	0.00000	1.27658
766	0.004743	1.94118	0.00000	1.27658
767	0.004743	2.05882	0.00000	1.27658
768	0.004743	2.17647	0.00000	1.27658
769	0.004743	2.29412	0.00000	1.27658
770	0.004743	2.41176	0.00000	1.27658
771	0.004743	2.52941	0.00000	1.27658
772	0.004743	2.64706	0.00000	1.27658
773	0.004743	2.76471	0.00000	1.27658

774	0.004743	2.88235	0.00000	1.27658
775	0.004743	3.00000	0.00000	1.27658
776	0.004743	3.11765	0.00000	1.27658
777	0.004743	3.23529	0.00000	1.27658
778	0.004743	3.35294	0.00000	1.27658
779	0.004743	3.47059	0.00000	1.27658
780	0.004743	3.58824	0.00000	1.27658
781	0.004743	3.70588	0.00000	1.27658
782	0.004743	3.82353	0.00000	1.27658
783	0.004743	3.94118	0.00000	1.27658
784	0.004743	0.05882	0.00000	1.14220
785	0.004743	0.17647	0.00000	1.14220
786	0.004743	0.29412	0.00000	1.14220
787	0.004743	0.41176	0.00000	1.14220
788	0.004743	0.52941	0.00000	1.14220
789	0.004743	0.64706	0.00000	1.14220
790	0.004743	0.76471	0.00000	1.14220
791	0.004743	0.88235	0.00000	1.14220
792	0.004743	1.00000	0.00000	1.14220
793	0.004743	1.11765	0.00000	1.14220
794	0.004743	1.23529	0.00000	1.14220
795	0.004743	1.35294	0.00000	1.14220
796	0.004743	1.47059	0.00000	1.14220
797	0.004743	1.58824	0.00000	1.14220
798	0.004743	1.70588	0.00000	1.14220
799	0.004743	1.82353	0.00000	1.14220
800	0.004743	1.94118	0.00000	1.14220
801	0.004743	2.05882	0.00000	1.14220
802	0.004743	2.17647	0.00000	1.14220
803	0.004743	2.29412	0.00000	1.14220
804	0.004743	2.41176	0.00000	1.14220
805	0.004743	2.52941	0.00000	1.14220
806	0.004743	2.64706	0.00000	1.14220
807	0.004743	2.76471	0.00000	1.14220
808	0.004743	2.88235	0.00000	1.14220
809	0.004743	3.00000	0.00000	1.14220
810	0.004743	3.11765	0.00000	1.14220
811	0.004743	3.23529	0.00000	1.14220
812	0.004743	3.35294	0.00000	1.14220
813	0.004743	3.47059	0.00000	1.14220
814	0.004743	3.58824	0.00000	1.14220
815	0.004743	3.70588	0.00000	1.14220
816	0.004743	3.82353	0.00000	1.14220
817	0.004743	3.94118	0.00000	1.14220
818	0.004743	0.05882	0.00000	1.00782
819	0.004743	0.17647	0.00000	1.00782
820	0.004743	0.29412	0.00000	1.00782
821	0.004743	0.41176	0.00000	1.00782
822	0.004743	0.52941	0.00000	1.00782
823	0.004743	0.64706	0.00000	1.00782
824	0.004743	0.76471	0.00000	1.00782
825	0.004743	0.88235	0.00000	1.00782
826	0.004743	1.00000	0.00000	1.00782
827	0.004743	1.11765	0.00000	1.00782
828	0.004743	1.23529	0.00000	1.00782
829	0.004743	1.35294	0.00000	1.00782
830	0.004743	1.47059	0.00000	1.00782
831	0.004743	1.58824	0.00000	1.00782
832	0.004743	1.70588	0.00000	1.00782
833	0.004743	1.82353	0.00000	1.00782
834	0.004743	1.94118	0.00000	1.00782
835	0.004743	2.05882	0.00000	1.00782
836	0.004743	2.17647	0.00000	1.00782
837	0.004743	2.29412	0.00000	1.00782
838	0.004743	2.41176	0.00000	1.00782
839	0.004743	2.52941	0.00000	1.00782
840	0.004743	2.64706	0.00000	1.00782
841	0.004743	2.76471	0.00000	1.00782
842	0.004743	2.88235	0.00000	1.00782
843	0.004743	3.00000	0.00000	1.00782
844	0.004743	3.11765	0.00000	1.00782
845	0.004743	3.23529	0.00000	1.00782
846	0.004743	3.35294	0.00000	1.00782
847	0.004743	3.47059	0.00000	1.00782
848	0.004743	3.58824	0.00000	1.00782
849	0.004743	3.70588	0.00000	1.00782
850	0.004743	3.82353	0.00000	1.00782
851	0.004743	3.94118	0.00000	1.00782

852	0.004743	0.05882	0.00000	0.87345
853	0.004743	0.17647	0.00000	0.87345
854	0.004743	0.29412	0.00000	0.87345
855	0.004743	0.41176	0.00000	0.87345
856	0.004743	0.52941	0.00000	0.87345
857	0.004743	0.64706	0.00000	0.87345
858	0.004743	0.76471	0.00000	0.87345
859	0.004743	0.88235	0.00000	0.87345
860	0.004743	1.00000	0.00000	0.87345
861	0.004743	1.11765	0.00000	0.87345
862	0.004743	1.23529	0.00000	0.87345
863	0.004743	1.35294	0.00000	0.87345
864	0.004743	1.47059	0.00000	0.87345
865	0.004743	1.58824	0.00000	0.87345
866	0.004743	1.70588	0.00000	0.87345
867	0.004743	1.82353	0.00000	0.87345
868	0.004743	1.94118	0.00000	0.87345
869	0.004743	2.05882	0.00000	0.87345
870	0.004743	2.17647	0.00000	0.87345
871	0.004743	2.29412	0.00000	0.87345
872	0.004743	2.41176	0.00000	0.87345
873	0.004743	2.52941	0.00000	0.87345
874	0.004743	2.64706	0.00000	0.87345
875	0.004743	2.76471	0.00000	0.87345
876	0.004743	2.88235	0.00000	0.87345
877	0.004743	3.00000	0.00000	0.87345
878	0.004743	3.11765	0.00000	0.87345
879	0.004743	3.23529	0.00000	0.87345
880	0.004743	3.35294	0.00000	0.87345
881	0.004743	3.47059	0.00000	0.87345
882	0.004743	3.58824	0.00000	0.87345
883	0.004743	3.70588	0.00000	0.87345
884	0.004743	3.82353	0.00000	0.87345
885	0.004743	3.94118	0.00000	0.87345
886	0.004743	0.05882	0.00000	0.73907
887	0.004743	0.17647	0.00000	0.73907
888	0.004743	0.29412	0.00000	0.73907
889	0.004743	0.41176	0.00000	0.73907
890	0.004743	0.52941	0.00000	0.73907
891	0.004743	0.64706	0.00000	0.73907
892	0.004743	0.76471	0.00000	0.73907
893	0.004743	0.88235	0.00000	0.73907
894	0.004743	1.00000	0.00000	0.73907
895	0.004743	1.11765	0.00000	0.73907
896	0.004743	1.23529	0.00000	0.73907
897	0.004743	1.35294	0.00000	0.73907
898	0.004743	1.47059	0.00000	0.73907
899	0.004743	1.58824	0.00000	0.73907
900	0.004743	1.70588	0.00000	0.73907
901	0.004743	1.82353	0.00000	0.73907
902	0.004743	1.94118	0.00000	0.73907
903	0.004743	2.05882	0.00000	0.73907
904	0.004743	2.17647	0.00000	0.73907
905	0.004743	2.29412	0.00000	0.73907
906	0.004743	2.41176	0.00000	0.73907
907	0.004743	2.52941	0.00000	0.73907
908	0.004743	2.64706	0.00000	0.73907
909	0.004743	2.76471	0.00000	0.73907
910	0.004743	2.88235	0.00000	0.73907
911	0.004743	3.00000	0.00000	0.73907
912	0.004743	3.11765	0.00000	0.73907
913	0.004743	3.23529	0.00000	0.73907
914	0.004743	3.35294	0.00000	0.73907
915	0.004743	3.47059	0.00000	0.73907
916	0.004743	3.58824	0.00000	0.73907
917	0.004743	3.70588	0.00000	0.73907
918	0.004743	3.82353	0.00000	0.73907
919	0.004743	3.94118	0.00000	0.73907
920	0.004743	0.05882	0.00000	0.60469
921	0.004743	0.17647	0.00000	0.60469
922	0.004743	0.29412	0.00000	0.60469
923	0.004743	0.41176	0.00000	0.60469
924	0.004743	0.52941	0.00000	0.60469
925	0.004743	0.64706	0.00000	0.60469
926	0.004743	0.76471	0.00000	0.60469
927	0.004743	0.88235	0.00000	0.60469
928	0.004743	1.00000	0.00000	0.60469
929	0.004743	1.11765	0.00000	0.60469

930	0.004743	1.23529	0.00000	0.60469
931	0.004743	1.35294	0.00000	0.60469
932	0.004743	1.47059	0.00000	0.60469
933	0.004743	1.58824	0.00000	0.60469
934	0.004743	1.70588	0.00000	0.60469
935	0.004743	1.82353	0.00000	0.60469
936	0.004743	1.94118	0.00000	0.60469
937	0.004743	2.05882	0.00000	0.60469
938	0.004743	2.17647	0.00000	0.60469
939	0.004743	2.29412	0.00000	0.60469
940	0.004743	2.41176	0.00000	0.60469
941	0.004743	2.52941	0.00000	0.60469
942	0.004743	2.64706	0.00000	0.60469
943	0.004743	2.76471	0.00000	0.60469
944	0.004743	2.88235	0.00000	0.60469
945	0.004743	3.00000	0.00000	0.60469
946	0.004743	3.11765	0.00000	0.60469
947	0.004743	3.23529	0.00000	0.60469
948	0.004743	3.35294	0.00000	0.60469
949	0.004743	3.47059	0.00000	0.60469
950	0.004743	3.58824	0.00000	0.60469
951	0.004743	3.70588	0.00000	0.60469
952	0.004743	3.82353	0.00000	0.60469
953	0.004743	3.94118	0.00000	0.60469
954	0.004743	0.05882	0.00000	0.47032
955	0.004743	0.17647	0.00000	0.47032
956	0.004743	0.29412	0.00000	0.47032
957	0.004743	0.41176	0.00000	0.47032
958	0.004743	0.52941	0.00000	0.47032
959	0.004743	0.64706	0.00000	0.47032
960	0.004743	0.76471	0.00000	0.47032
961	0.004743	0.88235	0.00000	0.47032
962	0.004743	1.00000	0.00000	0.47032
963	0.004743	1.11765	0.00000	0.47032
964	0.004743	1.23529	0.00000	0.47032
965	0.004743	1.35294	0.00000	0.47032
966	0.004743	1.47059	0.00000	0.47032
967	0.004743	1.58824	0.00000	0.47032
968	0.004743	1.70588	0.00000	0.47032
969	0.004743	1.82353	0.00000	0.47032
970	0.004743	1.94118	0.00000	0.47032
971	0.004743	2.05882	0.00000	0.47032
972	0.004743	2.17647	0.00000	0.47032
973	0.004743	2.29412	0.00000	0.47032
974	0.004743	2.41176	0.00000	0.47032
975	0.004743	2.52941	0.00000	0.47032
976	0.004743	2.64706	0.00000	0.47032
977	0.004743	2.76471	0.00000	0.47032
978	0.004743	2.88235	0.00000	0.47032
979	0.004743	3.00000	0.00000	0.47032
980	0.004743	3.11765	0.00000	0.47032
981	0.004743	3.23529	0.00000	0.47032
982	0.004743	3.35294	0.00000	0.47032
983	0.004743	3.47059	0.00000	0.47032
984	0.004743	3.58824	0.00000	0.47032
985	0.004743	3.70588	0.00000	0.47032
986	0.004743	3.82353	0.00000	0.47032
987	0.004743	3.94118	0.00000	0.47032
988	0.004743	0.05882	0.00000	0.33594
989	0.004743	0.17647	0.00000	0.33594
990	0.004743	0.29412	0.00000	0.33594
991	0.004743	0.41176	0.00000	0.33594
992	0.004743	0.52941	0.00000	0.33594
993	0.004743	0.64706	0.00000	0.33594
994	0.004743	0.76471	0.00000	0.33594
995	0.004743	0.88235	0.00000	0.33594
996	0.004743	1.00000	0.00000	0.33594
997	0.004743	1.11765	0.00000	0.33594
998	0.004743	1.23529	0.00000	0.33594
999	0.004743	1.35294	0.00000	0.33594
1000	0.004743	1.47059	0.00000	0.33594
1001	0.004743	1.58824	0.00000	0.33594
1002	0.004743	1.70588	0.00000	0.33594
1003	0.004743	1.82353	0.00000	0.33594
1004	0.004743	1.94118	0.00000	0.33594
1005	0.004743	2.05882	0.00000	0.33594
1006	0.004743	2.17647	0.00000	0.33594
1007	0.004743	2.29412	0.00000	0.33594

1008	0.004743	2.41176	0.00000	0.33594
1009	0.004743	2.52941	0.00000	0.33594
1010	0.004743	2.64706	0.00000	0.33594
1011	0.004743	2.76471	0.00000	0.33594
1012	0.004743	2.88235	0.00000	0.33594
1013	0.004743	3.00000	0.00000	0.33594
1014	0.004743	3.11765	0.00000	0.33594
1015	0.004743	3.23529	0.00000	0.33594
1016	0.004743	3.35294	0.00000	0.33594
1017	0.004743	3.47059	0.00000	0.33594
1018	0.004743	3.58824	0.00000	0.33594
1019	0.004743	3.70588	0.00000	0.33594
1020	0.004743	3.82353	0.00000	0.33594
1021	0.004743	3.94118	0.00000	0.33594
1022	0.004743	0.05882	0.00000	0.20156
1023	0.004743	0.17647	0.00000	0.20156
1024	0.004743	0.29412	0.00000	0.20156
1025	0.004743	0.41176	0.00000	0.20156
1026	0.004743	0.52941	0.00000	0.20156
1027	0.004743	0.64706	0.00000	0.20156
1028	0.004743	0.76471	0.00000	0.20156
1029	0.004743	0.88235	0.00000	0.20156
1030	0.004743	1.00000	0.00000	0.20156
1031	0.004743	1.11765	0.00000	0.20156
1032	0.004743	1.23529	0.00000	0.20156
1033	0.004743	1.35294	0.00000	0.20156
1034	0.004743	1.47059	0.00000	0.20156
1035	0.004743	1.58824	0.00000	0.20156
1036	0.004743	1.70588	0.00000	0.20156
1037	0.004743	1.82353	0.00000	0.20156
1038	0.004743	1.94118	0.00000	0.20156
1039	0.004743	2.05882	0.00000	0.20156
1040	0.004743	2.17647	0.00000	0.20156
1041	0.004743	2.29412	0.00000	0.20156
1042	0.004743	2.41176	0.00000	0.20156
1043	0.004743	2.52941	0.00000	0.20156
1044	0.004743	2.64706	0.00000	0.20156
1045	0.004743	2.76471	0.00000	0.20156
1046	0.004743	2.88235	0.00000	0.20156
1047	0.004743	3.00000	0.00000	0.20156
1048	0.004743	3.11765	0.00000	0.20156
1049	0.004743	3.23529	0.00000	0.20156
1050	0.004743	3.35294	0.00000	0.20156
1051	0.004743	3.47059	0.00000	0.20156
1052	0.004743	3.58824	0.00000	0.20156
1053	0.004743	3.70588	0.00000	0.20156
1054	0.004743	3.82353	0.00000	0.20156
1055	0.004743	3.94118	0.00000	0.20156
1056	0.004743	0.05882	0.00000	0.06719
1057	0.004743	0.17647	0.00000	0.06719
1058	0.004743	0.29412	0.00000	0.06719
1059	0.004743	0.41176	0.00000	0.06719
1060	0.004743	0.52941	0.00000	0.06719
1061	0.004743	0.64706	0.00000	0.06719
1062	0.004743	0.76471	0.00000	0.06719
1063	0.004743	0.88235	0.00000	0.06719
1064	0.004743	1.00000	0.00000	0.06719
1065	0.004743	1.11765	0.00000	0.06719
1066	0.004743	1.23529	0.00000	0.06719
1067	0.004743	1.35294	0.00000	0.06719
1068	0.004743	1.47059	0.00000	0.06719
1069	0.004743	1.58824	0.00000	0.06719
1070	0.004743	1.70588	0.00000	0.06719
1071	0.004743	1.82353	0.00000	0.06719
1072	0.004743	1.94118	0.00000	0.06719
1073	0.004743	2.05882	0.00000	0.06719
1074	0.004743	2.17647	0.00000	0.06719
1075	0.004743	2.29412	0.00000	0.06719
1076	0.004743	2.41176	0.00000	0.06719
1077	0.004743	2.52941	0.00000	0.06719
1078	0.004743	2.64706	0.00000	0.06719
1079	0.004743	2.76471	0.00000	0.06719
1080	0.004743	2.88235	0.00000	0.06719
1081	0.004743	3.00000	0.00000	0.06719
1082	0.004743	3.11765	0.00000	0.06719
1083	0.004743	3.23529	0.00000	0.06719
1084	0.004743	3.35294	0.00000	0.06719
1085	0.004743	3.47059	0.00000	0.06719

1086	0.004743	3.58824	0.00000	0.06719
1087	0.004743	3.70588	0.00000	0.06719
1088	0.004743	3.82353	0.00000	0.06719
1089	0.004743	3.94118	0.00000	0.06719
1263	0.005999	4.06667	0.00000	2.22501
1264	0.005999	4.20000	0.00000	2.22501
1265	0.005999	4.33333	0.00000	2.22501
1266	0.005375	4.06667	0.00000	2.08283
1267	0.005375	4.20000	0.00000	2.08283
1268	0.005375	4.33333	0.00000	2.08283
1269	0.005375	4.06667	0.00000	1.94846
1270	0.005375	4.20000	0.00000	1.94846
1271	0.005375	4.33333	0.00000	1.94846
1272	0.005375	4.06667	0.00000	1.81408
1273	0.005375	4.20000	0.00000	1.81408
1274	0.005375	4.33333	0.00000	1.81408
1275	0.005375	4.06667	0.00000	1.67971
1276	0.005375	4.20000	0.00000	1.67971
1277	0.005375	4.33333	0.00000	1.67971
1278	0.005375	4.06667	0.00000	1.54533
1279	0.005375	4.20000	0.00000	1.54533
1280	0.005375	4.33333	0.00000	1.54533
1281	0.005375	4.06667	0.00000	1.41095
1282	0.005375	4.20000	0.00000	1.41095
1283	0.005375	4.33333	0.00000	1.41095
1284	0.005375	4.06667	0.00000	1.27658
1285	0.005375	4.20000	0.00000	1.27658
1286	0.005375	4.33333	0.00000	1.27658
1287	0.005375	4.06667	0.00000	1.14220
1288	0.005375	4.20000	0.00000	1.14220
1289	0.005375	4.33333	0.00000	1.14220
1290	0.005375	4.06667	0.00000	1.00782
1291	0.005375	4.20000	0.00000	1.00782
1292	0.005375	4.33333	0.00000	1.00782
1293	0.005375	4.06667	0.00000	0.87345
1294	0.005375	4.20000	0.00000	0.87345
1295	0.005375	4.33333	0.00000	0.87345
1296	0.005375	4.06667	0.00000	0.73907
1297	0.005375	4.20000	0.00000	0.73907
1298	0.005375	4.33333	0.00000	0.73907
1299	0.005375	4.06667	0.00000	0.60469
1300	0.005375	4.20000	0.00000	0.60469
1301	0.005375	4.33333	0.00000	0.60469
1302	0.005375	4.06667	0.00000	0.47032
1303	0.005375	4.20000	0.00000	0.47032
1304	0.005375	4.33333	0.00000	0.47032
1305	0.005375	4.06667	0.00000	0.33594
1306	0.005375	4.20000	0.00000	0.33594
1307	0.005375	4.33333	0.00000	0.33594
1308	0.005375	4.06667	0.00000	0.20156
1309	0.005375	4.20000	0.00000	0.20156
1310	0.005375	4.33333	0.00000	0.20156
1311	0.005375	4.06667	0.00000	0.06719
1312	0.005375	4.20000	0.00000	0.06719
1313	0.005375	4.33333	0.00000	0.06719

Table: Element Forces - Area Shells

Area	AreaElem	ShellType	OutputCase	M11 KN-m/m	M22 KN-m/m	V13 KN/m	V23 KN/m
512	1	Shell-Thick	INVSLE	17.4775	3.5307	20.97	4.850E-02
512	1	Shell-Thick	INVSLE	17.8084	3.5265	21.03	4.850E-02
512	1	Shell-Thick	INVSLE	15.3207	1.9574	21.03	-1.123E-02
512	1	Shell-Thick	INVSLE	15.0173	1.9486	20.97	-1.123E-02
512	1	Shell-Thick	INVSLE	6.0322	1.2480	7.77	4.130E-02
512	1	Shell-Thick	INVSLE	6.4146	1.2414	7.92	4.130E-02
512	1	Shell-Thick	INVSLE	5.4794	0.6623	7.92	-6.890E-02
512	1	Shell-Thick	INVSLE	5.1185	0.6588	7.77	-6.890E-02
512	1	Shell-Thick	INVSLU	30.7497	6.1778	36.27	6.547E-02
512	1	Shell-Thick	INVSLU	31.0209	6.1763	36.24	6.547E-02
512	1	Shell-Thick	INVSLU	26.7329	3.4592	36.24	5.565E-02
512	1	Shell-Thick	INVSLU	26.4962	3.4444	36.27	5.565E-02
512	1	Shell-Thick	INVSLU	8.1435	1.6848	10.49	3.295E-02
512	1	Shell-Thick	INVSLU	8.6597	1.6759	10.70	3.295E-02
512	1	Shell-Thick	INVSLU	7.3971	0.8941	10.70	-9.302E-02
512	1	Shell-Thick	INVSLU	6.9100	0.8893	10.49	-9.302E-02

513	2 Shell-Thick	INVSLE	15.2725	1.7995	19.77	-0.16
513	2 Shell-Thick	INVSLE	13.4070	1.7748	19.73	-0.16
513	2 Shell-Thick	INVSLE	11.0998	0.8125	19.73	-0.20
513	2 Shell-Thick	INVSLE	12.9260	0.8558	19.77	-0.20
513	2 Shell-Thick	INVSLE	5.6101	0.6741	7.59	-0.24
513	2 Shell-Thick	INVSLE	4.9923	0.6479	7.64	-0.24
513	2 Shell-Thick	INVSLE	4.0974	0.2699	7.64	-0.21
513	2 Shell-Thick	INVSLE	4.7101	0.2985	7.59	-0.21
513	2 Shell-Thick	INVSLU	26.4773	3.1045	33.90	-0.22
513	2 Shell-Thick	INVSLU	23.1649	3.0817	33.75	-0.22
513	2 Shell-Thick	INVSLU	19.2199	1.4418	33.75	-0.22
513	2 Shell-Thick	INVSLU	22.4533	1.5021	33.90	-0.22
513	2 Shell-Thick	INVSLU	7.5736	0.9100	10.25	-0.34
513	2 Shell-Thick	INVSLU	6.7396	0.8746	10.32	-0.34
513	2 Shell-Thick	INVSLU	5.5315	0.3643	10.32	-0.28
513	2 Shell-Thick	INVSLU	6.3587	0.4030	10.25	-0.28
514	3 Shell-Thick	INVSLE	11.6545	0.6841	18.42	-0.12
514	3 Shell-Thick	INVSLE	10.8244	0.6750	18.46	-0.12
514	3 Shell-Thick	INVSLE	8.6754	0.6068	18.46	-0.15
514	3 Shell-Thick	INVSLE	9.4588	0.6382	18.42	-0.15
514	3 Shell-Thick	INVSLE	4.4335	0.2746	7.25	-0.16
514	3 Shell-Thick	INVSLE	4.1459	0.2481	7.31	-0.16
514	3 Shell-Thick	INVSLE	3.2926	0.2037	7.31	-0.22
514	3 Shell-Thick	INVSLE	3.5716	0.2343	7.25	-0.22
514	3 Shell-Thick	INVSLU	20.0282	1.1588	31.37	-5.909E-02
514	3 Shell-Thick	INVSLU	18.5689	1.1700	31.40	-5.909E-02
514	3 Shell-Thick	INVSLU	14.9175	1.0744	31.40	-8.126E-02
514	3 Shell-Thick	INVSLU	16.2857	1.1066	31.37	-8.126E-02
514	3 Shell-Thick	INVSLU	5.9853	0.3708	9.78	-0.22
514	3 Shell-Thick	INVSLU	5.5969	0.3349	9.87	-0.22
514	3 Shell-Thick	INVSLU	4.4450	0.2749	9.87	-0.29
514	3 Shell-Thick	INVSLU	4.8216	0.3164	9.78	-0.29
515	4 Shell-Thick	INVSLE	8.8179	0.5099	17.14	-0.16
515	4 Shell-Thick	INVSLE	8.1422	0.5004	17.15	-0.16
515	4 Shell-Thick	INVSLE	6.1521	0.3205	17.15	-0.16
515	4 Shell-Thick	INVSLE	6.7683	0.3583	17.14	-0.16
515	4 Shell-Thick	INVSLE	3.4550	0.2137	6.87	-0.21
515	4 Shell-Thick	INVSLE	3.2009	0.1826	6.91	-0.21
515	4 Shell-Thick	INVSLE	2.3959	0.1056	6.91	-0.24
515	4 Shell-Thick	INVSLE	2.6361	0.1433	6.87	-0.24
515	4 Shell-Thick	INVSLU	15.0368	0.8534	29.05	-8.919E-02
515	4 Shell-Thick	INVSLU	13.8723	0.8688	29.02	-8.919E-02
515	4 Shell-Thick	INVSLU	10.5079	0.5696	29.02	-6.043E-02
515	4 Shell-Thick	INVSLU	11.5602	0.6075	29.05	-6.043E-02
515	4 Shell-Thick	INVSLU	4.6643	0.2885	9.28	-0.29
515	4 Shell-Thick	INVSLU	4.3212	0.2466	9.33	-0.29
515	4 Shell-Thick	INVSLU	3.2345	0.1426	9.33	-0.33
515	4 Shell-Thick	INVSLU	3.5587	0.1935	9.28	-0.33
516	5 Shell-Thick	INVSLE	6.2683	0.2637	15.86	-0.16
516	5 Shell-Thick	INVSLE	5.8604	0.2567	15.84	-0.16
516	5 Shell-Thick	INVSLE	4.0254	0.2087	15.84	-0.14
516	5 Shell-Thick	INVSLE	4.3696	0.2460	15.86	-0.14
516	5 Shell-Thick	INVSLE	2.5348	0.1278	6.45	-0.24
516	5 Shell-Thick	INVSLE	2.3640	0.0945	6.47	-0.24
516	5 Shell-Thick	INVSLE	1.6107	0.0668	6.47	-0.26
516	5 Shell-Thick	INVSLE	1.7653	0.1078	6.45	-0.26
516	5 Shell-Thick	INVSLU	10.5978	0.4212	26.76	-5.776E-02
516	5 Shell-Thick	INVSLU	9.9149	0.4448	26.69	-5.776E-02
516	5 Shell-Thick	INVSLU	6.8256	0.3734	26.69	-3.881E-03
516	5 Shell-Thick	INVSLU	7.3896	0.4062	26.76	-3.881E-03
516	5 Shell-Thick	INVSLU	3.4219	0.1725	8.71	-0.32
516	5 Shell-Thick	INVSLU	3.1913	0.1275	8.74	-0.32
516	5 Shell-Thick	INVSLU	2.1744	0.0901	8.74	-0.35
516	5 Shell-Thick	INVSLU	2.3831	0.1456	8.71	-0.35
517	6 Shell-Thick	INVSLE	4.0740	0.1771	14.58	-0.15
517	6 Shell-Thick	INVSLE	3.7935	0.1721	14.55	-0.15
517	6 Shell-Thick	INVSLE	2.1116	0.0686	14.55	-0.13
517	6 Shell-Thick	INVSLE	2.3242	0.1058	14.58	-0.13
517	6 Shell-Thick	INVSLE	1.7168	0.0973	6.00	-0.26
517	6 Shell-Thick	INVSLE	1.5848	0.0624	6.01	-0.26
517	6 Shell-Thick	INVSLE	0.8861	0.0167	6.01	-0.27
517	6 Shell-Thick	INVSLE	0.9996	0.0604	6.00	-0.27
517	6 Shell-Thick	INVSLU	6.8075	0.2696	24.53	-3.199E-02
517	6 Shell-Thick	INVSLU	6.3547	0.2993	24.44	-3.199E-02
517	6 Shell-Thick	INVSLU	3.5327	0.1287	24.44	3.209E-02
517	6 Shell-Thick	INVSLU	3.8603	0.1584	24.53	3.209E-02
517	6 Shell-Thick	INVSLU	2.3176	0.1314	8.11	-0.35
517	6 Shell-Thick	INVSLU	2.1395	0.0842	8.12	-0.35

517	6	Shell-Thick	INVSLU	1.1962	0.0226	8.12	-0.36
517	6	Shell-Thick	INVSLU	1.3495	0.0816	8.11	-0.36
518	7	Shell-Thick	INVSLE	2.1384	0.0587	13.32	-0.14
518	7	Shell-Thick	INVSLE	2.0000	0.0562	13.28	-0.14
518	7	Shell-Thick	INVSLE	0.4675	-0.0093	13.28	-0.11
518	7	Shell-Thick	INVSLE	0.5373	0.0323	13.32	-0.11
518	7	Shell-Thick	INVSLE	0.9784	0.0551	5.54	-0.27
518	7	Shell-Thick	INVSLE	0.8938	0.0193	5.54	-0.27
518	7	Shell-Thick	INVSLE	0.2508	-0.0127	5.54	-0.27
518	7	Shell-Thick	INVSLE	0.3160	0.0257	5.54	-0.27
518	7	Shell-Thick	INVSLU	3.4836	0.0797	22.35	3.787E-03
518	7	Shell-Thick	INVSLU	3.2829	0.0989	22.25	3.787E-03
518	7	Shell-Thick	INVSLU	0.7187	-0.0054	22.25	8.017E-02
518	7	Shell-Thick	INVSLU	0.7939	0.0436	22.35	8.017E-02
518	7	Shell-Thick	INVSLU	1.3208	0.0628	7.48	-0.36
518	7	Shell-Thick	INVSLU	1.2066	0.0261	7.48	-0.36
518	7	Shell-Thick	INVSLU	0.3386	-0.0171	7.48	-0.36
518	7	Shell-Thick	INVSLU	0.4267	0.0181	7.48	-0.36
519	8	Shell-Thick	INVSLE	0.4578	0.0312	12.09	-0.13
519	8	Shell-Thick	INVSLE	0.4170	-0.0048	12.04	-0.13
519	8	Shell-Thick	INVSLE	-0.3118	-0.0462	12.04	-8.979E-02
519	8	Shell-Thick	INVSLE	-0.2813	-5.792E-04	12.09	-8.979E-02
519	8	Shell-Thick	INVSLE	0.3253	-0.0048	5.07	-0.27
519	8	Shell-Thick	INVSLE	0.2747	-0.0049	5.06	-0.27
519	8	Shell-Thick	INVSLE	-0.9699	-0.0976	5.06	-0.27
519	8	Shell-Thick	INVSLE	-0.9975	-0.0650	5.07	-0.27
519	8	Shell-Thick	INVSLU	0.6380	0.0421	20.23	4.278E-02
519	8	Shell-Thick	INVSLU	0.5842	-0.0047	20.13	4.278E-02
519	8	Shell-Thick	INVSLU	-0.4210	-0.0623	20.13	0.12
519	8	Shell-Thick	INVSLU	-0.3797	-7.819E-04	20.23	0.12
519	8	Shell-Thick	INVSLU	0.4391	-0.0465	6.84	-0.37
519	8	Shell-Thick	INVSLU	0.3708	-0.0067	6.83	-0.37
519	8	Shell-Thick	INVSLU	-1.7331	-0.1571	6.83	-0.37
519	8	Shell-Thick	INVSLU	-1.8281	-0.1398	6.84	-0.37
520	9	Shell-Thick	INVSLE	-0.2528	0.0019	10.88	-0.11
520	9	Shell-Thick	INVSLE	-0.2677	-0.0342	10.83	-0.11
520	9	Shell-Thick	INVSLE	-0.7979	-0.0694	10.83	-6.856E-02
520	9	Shell-Thick	INVSLE	-0.8028	-0.0239	10.88	-6.856E-02
520	9	Shell-Thick	INVSLE	-1.0098	-0.0820	4.59	-0.28
520	9	Shell-Thick	INVSLE	-0.9526	-0.0796	4.58	-0.28
520	9	Shell-Thick	INVSLE	-2.1981	-0.1552	4.58	-0.27
520	9	Shell-Thick	INVSLE	-2.3216	-0.1261	4.59	-0.27
520	9	Shell-Thick	INVSLU	-0.3413	0.0026	18.18	8.328E-02
520	9	Shell-Thick	INVSLU	-0.3614	-0.0461	18.07	8.328E-02
520	9	Shell-Thick	INVSLU	-1.0771	-0.0937	18.07	0.16
520	9	Shell-Thick	INVSLU	-1.0838	-0.0323	18.18	0.16
520	9	Shell-Thick	INVSLU	-1.8876	-0.1793	6.20	-0.37
520	9	Shell-Thick	INVSLU	-1.7468	-0.1323	6.18	-0.37
520	9	Shell-Thick	INVSLU	-3.8219	-0.2546	6.18	-0.36
520	9	Shell-Thick	INVSLU	-4.0828	-0.2446	6.20	-0.36
521	10	Shell-Thick	INVSLE	-0.7575	-0.0187	9.70	-8.935E-02
521	10	Shell-Thick	INVSLE	-0.7431	-0.0546	9.65	-8.935E-02
521	10	Shell-Thick	INVSLE	-1.2175	-0.0937	9.65	-4.964E-02
521	10	Shell-Thick	INVSLE	-1.2512	-0.0486	9.70	-4.964E-02
521	10	Shell-Thick	INVSLE	-2.2771	-0.1330	4.11	-0.27
521	10	Shell-Thick	INVSLE	-2.1431	-0.1284	4.10	-0.27
521	10	Shell-Thick	INVSLE	-3.2515	-0.2156	4.10	-0.27
521	10	Shell-Thick	INVSLE	-3.4488	-0.1901	4.11	-0.27
521	10	Shell-Thick	INVSLU	-1.0226	-0.0253	16.18	0.12
521	10	Shell-Thick	INVSLU	-1.0032	-0.0737	16.09	0.12
521	10	Shell-Thick	INVSLU	-1.6436	-0.1265	16.09	0.20
521	10	Shell-Thick	INVSLU	-1.6891	-0.0656	16.18	0.20
521	10	Shell-Thick	INVSLU	-4.0393	-0.2655	5.55	-0.37
521	10	Shell-Thick	INVSLU	-3.7665	-0.2140	5.54	-0.37
521	10	Shell-Thick	INVSLU	-5.6102	-0.3570	5.54	-0.36
521	10	Shell-Thick	INVSLU	-5.9972	-0.3543	5.55	-0.36
522	11	Shell-Thick	INVSLE	-1.1962	-0.0414	8.56	-6.935E-02
522	11	Shell-Thick	INVSLE	-1.1532	-0.0770	8.51	-6.935E-02
522	11	Shell-Thick	INVSLE	-1.5726	-0.1115	8.51	-3.022E-02
522	11	Shell-Thick	INVSLE	-1.6339	-0.0672	8.56	-3.022E-02
522	11	Shell-Thick	INVSLE	-3.3701	-0.1894	3.64	-0.27
522	11	Shell-Thick	INVSLE	-3.1627	-0.1828	3.63	-0.27
522	11	Shell-Thick	INVSLE	-4.1382	-0.2577	3.63	-0.26
522	11	Shell-Thick	INVSLE	-4.4045	-0.2363	3.64	-0.26
522	11	Shell-Thick	INVSLU	-1.6149	-0.0559	14.25	0.16
522	11	Shell-Thick	INVSLU	-1.5569	-0.1039	14.16	0.16
522	11	Shell-Thick	INVSLU	-2.1230	-0.1506	14.16	0.24
522	11	Shell-Thick	INVSLU	-2.2057	-0.0908	14.25	0.24

522	11	Shell-Thick	INVSLU	-5.8909	-0.3609	4.92	-0.37
522	11	Shell-Thick	INVSLU	-5.4929	-0.3056	4.90	-0.37
522	11	Shell-Thick	INVSLU	-7.1135	-0.4273	4.90	-0.35
522	11	Shell-Thick	INVSLU	-7.6175	-0.4323	4.92	-0.35
523	12	Shell-Thick	INVSLE	-1.5726	-0.0589	7.44	-4.940E-02
523	12	Shell-Thick	INVSLE	-1.5055	-0.0942	7.39	-4.940E-02
523	12	Shell-Thick	INVSLE	-1.8708	-0.1288	7.39	-1.339E-02
523	12	Shell-Thick	INVSLE	-1.9549	-0.0855	7.44	-1.339E-02
523	12	Shell-Thick	INVSLE	-4.3016	-0.2304	3.18	-0.27
523	12	Shell-Thick	INVSLE	-4.0343	-0.2223	3.17	-0.27
523	12	Shell-Thick	INVSLE	-4.8810	-0.2991	3.17	-0.26
523	12	Shell-Thick	INVSLE	-5.2021	-0.2816	3.18	-0.26
523	12	Shell-Thick	INVSLU	-2.1230	-0.0795	12.38	0.20
523	12	Shell-Thick	INVSLU	-2.0325	-0.1272	12.29	0.20
523	12	Shell-Thick	INVSLU	-2.5256	-0.1739	12.29	0.27
523	12	Shell-Thick	INVSLU	-2.6391	-0.1154	12.38	0.27
523	12	Shell-Thick	INVSLU	-7.4662	-0.4292	4.29	-0.36
523	12	Shell-Thick	INVSLU	-6.9668	-0.3709	4.27	-0.36
523	12	Shell-Thick	INVSLU	-8.3718	-0.4965	4.27	-0.35
523	12	Shell-Thick	INVSLU	-8.9677	-0.5090	4.29	-0.35
524	13	Shell-Thick	INVSLE	-1.8927	-0.0767	6.35	-3.071E-02
524	13	Shell-Thick	INVSLE	-1.8033	-0.1117	6.31	-3.071E-02
524	13	Shell-Thick	INVSLE	-2.1154	-0.1415	6.31	2.294E-03
524	13	Shell-Thick	INVSLE	-2.2201	-0.0993	6.35	2.294E-03
524	13	Shell-Thick	INVSLE	-5.0898	-0.2724	2.72	-0.26
524	13	Shell-Thick	INVSLE	-4.7677	-0.2632	2.71	-0.26
524	13	Shell-Thick	INVSLE	-5.4893	-0.3281	2.71	-0.25
524	13	Shell-Thick	INVSLE	-5.8592	-0.3146	2.72	-0.25
524	13	Shell-Thick	INVSLU	-2.5551	-0.1035	10.56	0.24
524	13	Shell-Thick	INVSLU	-2.4344	-0.1507	10.48	0.24
524	13	Shell-Thick	INVSLU	-2.8558	-0.1910	10.48	0.30
524	13	Shell-Thick	INVSLU	-2.9972	-0.1340	10.56	0.30
524	13	Shell-Thick	INVSLU	-8.7973	-0.4993	3.67	-0.35
524	13	Shell-Thick	INVSLU	-8.2053	-0.4389	3.66	-0.35
524	13	Shell-Thick	INVSLU	-9.4016	-0.5445	3.66	-0.34
524	13	Shell-Thick	INVSLU	-10.0791	-0.5644	3.67	-0.34
525	14	Shell-Thick	INVSLE	-2.1601	-0.0907	5.28	-1.335E-02
525	14	Shell-Thick	INVSLE	-2.0521	-0.1255	5.25	-1.335E-02
525	14	Shell-Thick	INVSLE	-2.3122	-0.1528	5.25	1.510E-02
525	14	Shell-Thick	INVSLE	-2.4334	-0.1117	5.28	1.510E-02
525	14	Shell-Thick	INVSLE	-5.7456	-0.3039	2.27	-0.26
525	14	Shell-Thick	INVSLE	-5.3789	-0.2940	2.26	-0.26
525	14	Shell-Thick	INVSLE	-5.9786	-0.3545	2.26	-0.25
525	14	Shell-Thick	INVSLE	-6.3865	-0.3448	2.27	-0.25
525	14	Shell-Thick	INVSLU	-2.9161	-0.1224	8.78	0.27
525	14	Shell-Thick	INVSLU	-2.7704	-0.1694	8.71	0.27
525	14	Shell-Thick	INVSLU	-3.1215	-0.2063	8.71	0.32
525	14	Shell-Thick	INVSLU	-3.2851	-0.1508	8.78	0.32
525	14	Shell-Thick	INVSLU	-9.9034	-0.5512	3.06	-0.35
525	14	Shell-Thick	INVSLU	-9.2366	-0.4895	3.05	-0.35
525	14	Shell-Thick	INVSLU	-10.2303	-0.5883	3.05	-0.34
525	14	Shell-Thick	INVSLU	-10.9706	-0.6151	3.06	-0.34
526	15	Shell-Thick	INVSLE	-2.3793	-0.1038	4.24	1.918E-03
526	15	Shell-Thick	INVSLE	-2.2552	-0.1385	4.21	1.918E-03
526	15	Shell-Thick	INVSLE	-2.4642	-0.1606	4.21	2.582E-02
526	15	Shell-Thick	INVSLE	-2.5993	-0.1206	4.24	2.582E-02
526	15	Shell-Thick	INVSLE	-6.2816	-0.3339	1.82	-0.25
526	15	Shell-Thick	INVSLE	-5.8760	-0.3238	1.82	-0.25
526	15	Shell-Thick	INVSLE	-6.3569	-0.3719	1.82	-0.25
526	15	Shell-Thick	INVSLE	-6.7964	-0.3659	1.82	-0.25
526	15	Shell-Thick	INVSLU	-3.2121	-0.1401	7.04	0.30
526	15	Shell-Thick	INVSLU	-3.0446	-0.1870	6.99	0.30
526	15	Shell-Thick	INVSLU	-3.3266	-0.2168	6.99	0.34
526	15	Shell-Thick	INVSLU	-3.5090	-0.1629	7.04	0.34
526	15	Shell-Thick	INVSLU	-10.8067	-0.6008	2.46	-0.34
526	15	Shell-Thick	INVSLU	-10.0747	-0.5387	2.45	-0.34
526	15	Shell-Thick	INVSLU	-10.8710	-0.6168	2.45	-0.33
526	15	Shell-Thick	INVSLU	-11.6635	-0.6503	2.46	-0.33
527	16	Shell-Thick	INVSLE	-2.5534	-0.1139	3.22	1.502E-02
527	16	Shell-Thick	INVSLE	-2.4167	-0.1487	3.19	1.502E-02
527	16	Shell-Thick	INVSLE	-2.5752	-0.1666	3.19	3.348E-02
527	16	Shell-Thick	INVSLE	-2.7205	-0.1277	3.22	3.348E-02
527	16	Shell-Thick	INVSLE	-6.7057	-0.3561	1.39	-0.25
527	16	Shell-Thick	INVSLE	-6.2700	-0.3462	1.38	-0.25
527	16	Shell-Thick	INVSLE	-6.6345	-0.3856	1.38	-0.24
527	16	Shell-Thick	INVSLE	-7.0964	-0.3830	1.39	-0.24
527	16	Shell-Thick	INVSLU	-3.4471	-0.1537	5.34	0.32
527	16	Shell-Thick	INVSLU	-3.2625	-0.2007	5.30	0.32

527	16	Shell-Thick	INVSLU	-3.4765	-0.2249	5.30	0.35
527	16	Shell-Thick	INVSLU	-3.6727	-0.1724	5.34	0.35
527	16	Shell-Thick	INVSLU	-11.5207	-0.6369	1.87	-0.34
527	16	Shell-Thick	INVSLU	-10.7385	-0.5752	1.86	-0.34
527	16	Shell-Thick	INVSLU	-11.3417	-0.6395	1.86	-0.33
527	16	Shell-Thick	INVSLU	-12.1708	-0.6790	1.87	-0.33
528	17	Shell-Thick	INVSLE	-2.6853	-0.1224	2.21	2.556E-02
528	17	Shell-Thick	INVSLE	-2.5387	-0.1575	2.19	2.556E-02
528	17	Shell-Thick	INVSLE	-2.6475	-0.1697	2.19	3.856E-02
528	17	Shell-Thick	INVSLE	-2.8001	-0.1318	2.21	3.856E-02
528	17	Shell-Thick	INVSLE	-7.0261	-0.3750	0.95	-0.25
528	17	Shell-Thick	INVSLE	-6.5665	-0.3659	0.95	-0.25
528	17	Shell-Thick	INVSLE	-6.8163	-0.3924	0.95	-0.24
528	17	Shell-Thick	INVSLE	-7.2942	-0.3929	0.95	-0.24
528	17	Shell-Thick	INVSLU	-3.6252	-0.1653	3.66	0.34
528	17	Shell-Thick	INVSLU	-3.4272	-0.2126	3.63	0.34
528	17	Shell-Thick	INVSLU	-3.5741	-0.2291	3.63	0.36
528	17	Shell-Thick	INVSLU	-3.7801	-0.1779	3.66	0.36
528	17	Shell-Thick	INVSLU	-12.0598	-0.6679	1.28	-0.33
528	17	Shell-Thick	INVSLU	-11.2372	-0.6075	1.28	-0.33
528	17	Shell-Thick	INVSLU	-11.6507	-0.6507	1.28	-0.33
528	17	Shell-Thick	INVSLU	-12.5057	-0.6957	1.28	-0.33
529	18	Shell-Thick	INVSLE	-2.7769	-0.1283	1.21	3.342E-02
529	18	Shell-Thick	INVSLE	-2.6237	-0.1638	1.20	3.342E-02
529	18	Shell-Thick	INVSLE	-2.6832	-0.1707	1.20	4.055E-02
529	18	Shell-Thick	INVSLE	-2.8397	-0.1337	1.21	4.055E-02
529	18	Shell-Thick	INVSLE	-7.2474	-0.3875	0.52	-0.24
529	18	Shell-Thick	INVSLE	-6.7720	-0.3796	0.52	-0.24
529	18	Shell-Thick	INVSLE	-6.9085	-0.3949	0.52	-0.24
529	18	Shell-Thick	INVSLE	-7.3940	-0.3981	0.52	-0.24
529	18	Shell-Thick	INVSLU	-3.7488	-0.1733	2.00	0.35
529	18	Shell-Thick	INVSLU	-3.5421	-0.2211	1.98	0.35
529	18	Shell-Thick	INVSLU	-3.6223	-0.2305	1.98	0.37
529	18	Shell-Thick	INVSLU	-3.8336	-0.1805	2.00	0.37
529	18	Shell-Thick	INVSLU	-12.4315	-0.6881	0.70	-0.33
529	18	Shell-Thick	INVSLU	-11.5823	-0.6299	0.70	-0.33
529	18	Shell-Thick	INVSLU	-11.8082	-0.6549	0.70	-0.32
529	18	Shell-Thick	INVSLU	-12.6752	-0.7046	0.70	-0.32
530	19	Shell-Thick	INVSLE	-2.8297	-0.1322	0.21	3.849E-02
530	19	Shell-Thick	INVSLE	-2.6728	-0.1682	0.21	3.849E-02
530	19	Shell-Thick	INVSLE	-2.6832	-0.1694	0.21	3.972E-02
530	19	Shell-Thick	INVSLE	-2.8407	-0.1332	0.21	3.972E-02
530	19	Shell-Thick	INVSLE	-7.3738	-0.3956	9.112E-02	-0.24
530	19	Shell-Thick	INVSLE	-6.8886	-0.3894	9.061E-02	-0.24
530	19	Shell-Thick	INVSLE	-6.9126	-0.3921	9.061E-02	-0.24
530	19	Shell-Thick	INVSLE	-7.3993	-0.3976	9.112E-02	-0.24
530	19	Shell-Thick	INVSLU	-3.8201	-0.1785	0.35	0.36
530	19	Shell-Thick	INVSLU	-3.6083	-0.2270	0.35	0.36
530	19	Shell-Thick	INVSLU	-3.6224	-0.2287	0.35	0.36
530	19	Shell-Thick	INVSLU	-3.8349	-0.1798	0.35	0.36
530	19	Shell-Thick	INVSLU	-12.6432	-0.7011	0.12	-0.33
530	19	Shell-Thick	INVSLU	-11.7774	-0.6458	0.12	-0.33
530	19	Shell-Thick	INVSLU	-11.8170	-0.6504	0.12	-0.32
530	19	Shell-Thick	INVSLU	-12.6857	-0.7042	0.12	-0.32
531	20	Shell-Thick	INVSLE	-2.8441	-0.1337	-0.34	4.059E-02
531	20	Shell-Thick	INVSLE	-2.6869	-0.1704	-0.34	4.059E-02
531	20	Shell-Thick	INVSLE	-2.6483	-0.1659	-0.34	3.591E-02
531	20	Shell-Thick	INVSLE	-2.8033	-0.1302	-0.34	3.591E-02
531	20	Shell-Thick	INVSLE	-7.4060	-0.3983	-0.78	-0.24
531	20	Shell-Thick	INVSLE	-6.9193	-0.3941	-0.78	-0.24
531	20	Shell-Thick	INVSLE	-6.8307	-0.3842	-0.78	-0.24
531	20	Shell-Thick	INVSLE	-7.3107	-0.3916	-0.78	-0.24
531	20	Shell-Thick	INVSLU	-3.8395	-0.1805	-0.46	0.37
531	20	Shell-Thick	INVSLU	-3.6273	-0.2300	-0.45	0.37
531	20	Shell-Thick	INVSLU	-3.5752	-0.2239	-0.45	0.36
531	20	Shell-Thick	INVSLU	-3.7844	-0.1758	-0.46	0.36
531	20	Shell-Thick	INVSLU	-12.6961	-0.7051	-1.30	-0.32
531	20	Shell-Thick	INVSLU	-11.8272	-0.6536	-1.29	-0.32
531	20	Shell-Thick	INVSLU	-11.6808	-0.6374	-1.29	-0.33
531	20	Shell-Thick	INVSLU	-12.5376	-0.6946	-1.30	-0.33
532	21	Shell-Thick	INVSLE	-2.8201	-0.1327	-0.77	3.989E-02
532	21	Shell-Thick	INVSLE	-2.6655	-0.1702	-0.76	3.989E-02
532	21	Shell-Thick	INVSLE	-2.5777	-0.1604	-0.76	2.927E-02
532	21	Shell-Thick	INVSLE	-2.7274	-0.1253	-0.77	2.927E-02
532	21	Shell-Thick	INVSLE	-7.3444	-0.3952	-1.78	-0.24
532	21	Shell-Thick	INVSLE	-6.8624	-0.3936	-1.77	-0.24
532	21	Shell-Thick	INVSLE	-6.6610	-0.3724	-1.77	-0.24
532	21	Shell-Thick	INVSLE	-7.1280	-0.3812	-1.78	-0.24

532	21	Shell-Thick	INVSLU	-3.8071	-0.1791	-1.04	0.37
532	21	Shell-Thick	INVSLU	-3.5984	-0.2298	-1.03	0.37
532	21	Shell-Thick	INVSLU	-3.4799	-0.2166	-1.03	0.35
532	21	Shell-Thick	INVSLU	-3.6820	-0.1691	-1.04	0.35
532	21	Shell-Thick	INVSLU	-12.5910	-0.6997	-2.95	-0.32
532	21	Shell-Thick	INVSLU	-11.7292	-0.6527	-2.93	-0.32
532	21	Shell-Thick	INVSLU	-11.3959	-0.6182	-2.93	-0.33
532	21	Shell-Thick	INVSLU	-12.2309	-0.6779	-2.95	-0.33
533	22	Shell-Thick	INVSLE	-2.7567	-0.1296	-1.20	3.607E-02
533	22	Shell-Thick	INVSLE	-2.6081	-0.1681	-1.19	3.607E-02
533	22	Shell-Thick	INVSLE	-2.4709	-0.1525	-1.19	1.989E-02
533	22	Shell-Thick	INVSLE	-2.6118	-0.1176	-1.20	1.989E-02
533	22	Shell-Thick	INVSLE	-7.1862	-0.3876	-2.79	-0.24
533	22	Shell-Thick	INVSLE	-6.7172	-0.3889	-2.77	-0.24
533	22	Shell-Thick	INVSLE	-6.4018	-0.3545	-2.77	-0.25
533	22	Shell-Thick	INVSLE	-6.8476	-0.3642	-2.79	-0.25
533	22	Shell-Thick	INVSLU	-3.7215	-0.1749	-1.62	0.36
533	22	Shell-Thick	INVSLU	-3.5210	-0.2269	-1.61	0.36
533	22	Shell-Thick	INVSLU	-3.3357	-0.2058	-1.61	0.33
533	22	Shell-Thick	INVSLU	-3.5259	-0.1587	-1.62	0.33
533	22	Shell-Thick	INVSLU	-12.3229	-0.6868	-4.62	-0.33
533	22	Shell-Thick	INVSLU	-11.4822	-0.6450	-4.59	-0.33
533	22	Shell-Thick	INVSLU	-10.9602	-0.5888	-4.59	-0.33
533	22	Shell-Thick	INVSLU	-11.7596	-0.6502	-4.62	-0.33
534	23	Shell-Thick	INVSLE	-2.6524	-0.1235	-1.64	2.964E-02
534	23	Shell-Thick	INVSLE	-2.5128	-0.1630	-1.63	2.964E-02
534	23	Shell-Thick	INVSLE	-2.3254	-0.1431	-1.63	7.865E-03
534	23	Shell-Thick	INVSLE	-2.4550	-0.1084	-1.64	7.865E-03
534	23	Shell-Thick	INVSLE	-6.9281	-0.3728	-3.80	-0.24
534	23	Shell-Thick	INVSLE	-6.4783	-0.3773	-3.78	-0.24
534	23	Shell-Thick	INVSLE	-6.0473	-0.3341	-3.78	-0.25
534	23	Shell-Thick	INVSLE	-6.4661	-0.3443	-3.80	-0.25
534	23	Shell-Thick	INVSLU	-3.5808	-0.1667	-2.21	0.35
534	23	Shell-Thick	INVSLU	-3.3922	-0.2201	-2.20	0.35
534	23	Shell-Thick	INVSLU	-3.1393	-0.1932	-2.20	0.31
534	23	Shell-Thick	INVSLU	-3.3142	-0.1463	-2.21	0.31
534	23	Shell-Thick	INVSLU	-11.8862	-0.6619	-6.32	-0.33
534	23	Shell-Thick	INVSLU	-11.0769	-0.6258	-6.27	-0.33
534	23	Shell-Thick	INVSLU	-10.3633	-0.5555	-6.27	-0.34
534	23	Shell-Thick	INVSLU	-11.1174	-0.6178	-6.32	-0.34
535	24	Shell-Thick	INVSLE	-2.5047	-0.1156	-2.08	2.008E-02
535	24	Shell-Thick	INVSLE	-2.3777	-0.1563	-2.07	2.008E-02
535	24	Shell-Thick	INVSLE	-2.1395	-0.1308	-2.07	-6.431E-03
535	24	Shell-Thick	INVSLE	-2.2541	-0.0961	-2.08	-6.431E-03
535	24	Shell-Thick	INVSLE	-6.5629	-0.3542	-4.84	-0.25
535	24	Shell-Thick	INVSLE	-6.1417	-0.3623	-4.80	-0.25
535	24	Shell-Thick	INVSLE	-5.5929	-0.3061	-4.80	-0.26
535	24	Shell-Thick	INVSLE	-5.9757	-0.3162	-4.84	-0.26
535	24	Shell-Thick	INVSLU	-3.3814	-0.1561	-2.81	0.33
535	24	Shell-Thick	INVSLU	-3.2099	-0.2110	-2.79	0.33
535	24	Shell-Thick	INVSLU	-2.8884	-0.1766	-2.79	0.28
535	24	Shell-Thick	INVSLU	-3.0431	-0.1297	-2.81	0.28
535	24	Shell-Thick	INVSLU	-11.2688	-0.6309	-8.04	-0.33
535	24	Shell-Thick	INVSLU	-10.5065	-0.6013	-7.98	-0.33
535	24	Shell-Thick	INVSLU	-9.5975	-0.5093	-7.98	-0.34
535	24	Shell-Thick	INVSLU	-10.2913	-0.5715	-8.04	-0.34
536	25	Shell-Thick	INVSLE	-2.3110	-0.1042	-2.53	8.370E-03
536	25	Shell-Thick	INVSLE	-2.1991	-0.1460	-2.52	8.370E-03
536	25	Shell-Thick	INVSLE	-1.9093	-0.1178	-2.52	-2.297E-02
536	25	Shell-Thick	INVSLE	-2.0066	-0.0830	-2.53	-2.297E-02
536	25	Shell-Thick	INVSLE	-6.0840	-0.3265	-5.89	-0.25
536	25	Shell-Thick	INVSLE	-5.6974	-0.3384	-5.85	-0.25
536	25	Shell-Thick	INVSLE	-5.0282	-0.2773	-5.85	-0.26
536	25	Shell-Thick	INVSLE	-5.3695	-0.2870	-5.89	-0.26
536	25	Shell-Thick	INVSLU	-3.1198	-0.1407	-3.41	0.31
536	25	Shell-Thick	INVSLU	-2.9688	-0.1971	-3.40	0.31
536	25	Shell-Thick	INVSLU	-2.5775	-0.1591	-3.40	0.25
536	25	Shell-Thick	INVSLU	-2.7089	-0.1120	-3.41	0.25
536	25	Shell-Thick	INVSLU	-10.4594	-0.5843	-9.80	-0.34
536	25	Shell-Thick	INVSLU	-9.7541	-0.5615	-9.72	-0.34
536	25	Shell-Thick	INVSLU	-8.6449	-0.4622	-9.72	-0.35
536	25	Shell-Thick	INVSLU	-9.2693	-0.5235	-9.80	-0.35
537	26	Shell-Thick	INVSLE	-2.0669	-0.0915	-2.98	-6.365E-03
537	26	Shell-Thick	INVSLE	-1.9744	-0.1344	-2.97	-6.365E-03
537	26	Shell-Thick	INVSLE	-1.6319	-0.1011	-2.97	-4.103E-02
537	26	Shell-Thick	INVSLE	-1.7080	-0.0660	-2.98	-4.103E-02
537	26	Shell-Thick	INVSLE	-5.4799	-0.2963	-6.97	-0.26
537	26	Shell-Thick	INVSLE	-5.1387	-0.3121	-6.93	-0.26

537	26	Shell-Thick	INVSLE	-4.3459	-0.2383	-6.93	-0.26
537	26	Shell-Thick	INVSLE	-4.6355	-0.2470	-6.97	-0.26
537	26	Shell-Thick	INVSLU	-2.7903	-0.1235	-4.03	0.28
537	26	Shell-Thick	INVSLU	-2.6654	-0.1814	-4.01	0.28
537	26	Shell-Thick	INVSLU	-2.2030	-0.1365	-4.01	0.22
537	26	Shell-Thick	INVSLU	-2.3058	-0.0891	-4.03	0.22
537	26	Shell-Thick	INVSLU	-9.4378	-0.5338	-11.60	-0.34
537	26	Shell-Thick	INVSLU	-8.8082	-0.5182	-11.51	-0.34
537	26	Shell-Thick	INVSLU	-7.4931	-0.3974	-11.51	-0.36
537	26	Shell-Thick	INVSLU	-8.0302	-0.4569	-11.60	-0.36
538	27	Shell-Thick	INVSLE	-1.7689	-0.0743	-3.44	-2.236E-02
538	27	Shell-Thick	INVSLE	-1.6978	-0.1182	-3.43	-2.236E-02
538	27	Shell-Thick	INVSLE	-1.3017	-0.0848	-3.43	-6.058E-02
538	27	Shell-Thick	INVSLE	-1.3549	-0.0494	-3.44	-6.058E-02
538	27	Shell-Thick	INVSLE	-4.7407	-0.2538	-8.08	-0.26
538	27	Shell-Thick	INVSLE	-4.4505	-0.2735	-8.03	-0.26
538	27	Shell-Thick	INVSLE	-3.5304	-0.2013	-8.03	-0.27
538	27	Shell-Thick	INVSLE	-3.7637	-0.2086	-8.08	-0.27
538	27	Shell-Thick	INVSLU	-2.3880	-0.1003	-4.65	0.25
538	27	Shell-Thick	INVSLU	-2.2921	-0.1596	-4.63	0.25
538	27	Shell-Thick	INVSLU	-1.7573	-0.1145	-4.63	0.18
538	27	Shell-Thick	INVSLU	-1.8291	-0.0667	-4.65	0.18
538	27	Shell-Thick	INVSLU	-8.1869	-0.4619	-13.45	-0.35
538	27	Shell-Thick	INVSLU	-7.6425	-0.4536	-13.36	-0.35
538	27	Shell-Thick	INVSLU	-6.1149	-0.3364	-13.36	-0.36
538	27	Shell-Thick	INVSLU	-6.5569	-0.3933	-13.45	-0.36
539	28	Shell-Thick	INVSLE	-1.4113	-0.0568	-3.91	-4.120E-02
539	28	Shell-Thick	INVSLE	-1.3665	-0.1016	-3.90	-4.120E-02
539	28	Shell-Thick	INVSLE	-0.9157	-0.0632	-3.90	-8.048E-02
539	28	Shell-Thick	INVSLE	-0.9414	-0.0274	-3.91	-8.048E-02
539	28	Shell-Thick	INVSLE	-3.8494	-0.2110	-9.21	-0.26
539	28	Shell-Thick	INVSLE	-3.6244	-0.2348	-9.16	-0.26
539	28	Shell-Thick	INVSLE	-2.5732	-0.1490	-9.16	-0.27
539	28	Shell-Thick	INVSLE	-2.7365	-0.1545	-9.21	-0.27
539	28	Shell-Thick	INVSLU	-1.9052	-0.0767	-5.28	0.22
539	28	Shell-Thick	INVSLU	-1.8448	-0.1372	-5.27	0.22
539	28	Shell-Thick	INVSLU	-1.2362	-0.0853	-5.27	0.14
539	28	Shell-Thick	INVSLU	-1.2709	-0.0370	-5.28	0.14
539	28	Shell-Thick	INVSLU	-6.6768	-0.3899	-15.35	-0.36
539	28	Shell-Thick	INVSLU	-6.2426	-0.3893	-15.26	-0.36
539	28	Shell-Thick	INVSLU	-4.4953	-0.2485	-15.26	-0.37
539	28	Shell-Thick	INVSLU	-4.8182	-0.3019	-15.35	-0.37
540	29	Shell-Thick	INVSLE	-0.9902	-0.0332	-4.39	-5.969E-02
540	29	Shell-Thick	INVSLE	-0.9727	-0.0785	-4.38	-5.969E-02
540	29	Shell-Thick	INVSLE	-0.4664	-0.0439	-4.38	-0.10
540	29	Shell-Thick	INVSLE	-0.4642	-0.0079	-4.39	-0.10
540	29	Shell-Thick	INVSLE	-2.7941	-0.1502	-10.37	-0.27
540	29	Shell-Thick	INVSLE	-2.6378	-0.1777	-10.32	-0.27
540	29	Shell-Thick	INVSLE	-1.4514	-0.1037	-10.32	-0.27
540	29	Shell-Thick	INVSLE	-1.5425	-0.1071	-10.37	-0.27
540	29	Shell-Thick	INVSLU	-1.3367	-0.0448	-5.92	0.18
540	29	Shell-Thick	INVSLU	-1.3131	-0.1060	-5.91	0.18
540	29	Shell-Thick	INVSLU	-0.6296	-0.0593	-5.91	0.10
540	29	Shell-Thick	INVSLU	-0.6266	-0.0107	-5.92	0.10
540	29	Shell-Thick	INVSLU	-4.8860	-0.2859	-17.32	-0.36
540	29	Shell-Thick	INVSLU	-4.5688	-0.2927	-17.22	-0.36
540	29	Shell-Thick	INVSLU	-2.5936	-0.1730	-17.22	-0.37
540	29	Shell-Thick	INVSLU	-2.7929	-0.2222	-17.32	-0.37
541	30	Shell-Thick	INVSLE	-0.4979	-0.0113	-4.86	-8.097E-02
541	30	Shell-Thick	INVSLE	-0.5147	-0.0569	-4.86	-8.097E-02
541	30	Shell-Thick	INVSLE	0.0477	-0.0156	-4.86	-0.12
541	30	Shell-Thick	INVSLE	0.0846	0.0205	-4.86	-0.12
541	30	Shell-Thick	INVSLE	-1.5496	-0.0938	-11.57	-0.27
541	30	Shell-Thick	INVSLE	-1.4845	-0.1250	-11.52	-0.27
541	30	Shell-Thick	INVSLE	-0.1586	-0.0317	-11.52	-0.27
541	30	Shell-Thick	INVSLE	-0.1558	-0.0328	-11.57	-0.27
541	30	Shell-Thick	INVSLU	-0.6722	-0.0152	-6.56	0.14
541	30	Shell-Thick	INVSLU	-0.6949	-0.0769	-6.56	0.14
541	30	Shell-Thick	INVSLU	0.0643	-0.0210	-6.56	6.072E-02
541	30	Shell-Thick	INVSLU	0.1142	0.0277	-6.56	6.072E-02
541	30	Shell-Thick	INVSLU	-2.7691	-0.1896	-19.34	-0.36
541	30	Shell-Thick	INVSLU	-2.6090	-0.2039	-19.24	-0.36
541	30	Shell-Thick	INVSLU	-0.3978	-0.0505	-19.24	-0.37
541	30	Shell-Thick	INVSLU	-0.4346	-0.0947	-19.34	-0.37
542	31	Shell-Thick	INVSLE	0.0676	0.0205	-5.34	-9.888E-02
542	31	Shell-Thick	INVSLE	0.0183	-0.0248	-5.34	-9.888E-02
542	31	Shell-Thick	INVSLE	1.3411	0.0224	-5.34	-0.14
542	31	Shell-Thick	INVSLE	1.4337	0.0423	-5.34	-0.14

542	31 Shell-Thick	INVSLE	-0.1047	-0.0072	-12.79	-0.27	
542	31 Shell-Thick	INVSLE	-0.1286	-0.0411	-12.74	-0.27	
542	31 Shell-Thick	INVSLE	0.6372	0.0064	-12.74	-0.27	
542	31 Shell-Thick	INVSLE	0.7062	0.0237	-12.79	-0.27	
542	31 Shell-Thick	INVSLU	0.0913	0.0277	-7.21	9.953E-02	
542	31 Shell-Thick	INVSLU	0.0248	-0.0335	-7.20	9.953E-02	
542	31 Shell-Thick	INVSLU	2.1574	0.0410	-7.20	2.103E-02	
542	31 Shell-Thick	INVSLU	2.2773	0.0572	-7.21	2.103E-02	
542	31 Shell-Thick	INVSLU	-0.3044	-0.0393	-21.43	-0.36	
542	31 Shell-Thick	INVSLU	-0.2990	-0.0600	-21.33	-0.36	
542	31 Shell-Thick	INVSLU	0.8602	0.0087	-21.33	-0.37	
542	31 Shell-Thick	INVSLU	0.9533	0.0022	-21.43	-0.37	
543	32 Shell-Thick	INVSLE	1.5830	0.0645	-5.81	-0.12	
543	32 Shell-Thick	INVSLE	1.4230	0.0279	-5.81	-0.12	
543	32 Shell-Thick	INVSLE	3.0403	0.1331	-5.81	-0.15	
543	32 Shell-Thick	INVSLE	3.2690	0.1371	-5.81	-0.15	
543	32 Shell-Thick	INVSLE	0.7179	0.0462	-14.04	-0.27	
543	32 Shell-Thick	INVSLE	0.6217	0.0018	-14.00	-0.27	
543	32 Shell-Thick	INVSLE	1.2967	0.0478	-14.00	-0.26	
543	32 Shell-Thick	INVSLE	1.4119	0.0831	-14.04	-0.26	
543	32 Shell-Thick	INVSLU	2.5861	0.0898	-7.84	5.109E-02	
543	32 Shell-Thick	INVSLU	2.3522	0.0582	-7.85	5.109E-02	
543	32 Shell-Thick	INVSLU	5.0623	0.2321	-7.85	-1.700E-02	
543	32 Shell-Thick	INVSLU	5.4226	0.1996	-7.84	-1.700E-02	
543	32 Shell-Thick	INVSLU	0.9692	0.0624	-23.58	-0.36	
543	32 Shell-Thick	INVSLU	0.8393	0.0024	-23.50	-0.36	
543	32 Shell-Thick	INVSLU	1.7505	0.0645	-23.50	-0.36	
543	32 Shell-Thick	INVSLU	1.9061	0.1122	-23.58	-0.36	
544	33 Shell-Thick	INVSLE	3.5112	0.1979	-6.26	-0.13	
544	33 Shell-Thick	INVSLE	3.2416	0.1610	-6.28	-0.13	
544	33 Shell-Thick	INVSLE	5.0106	0.1965	-6.28	-0.15	
544	33 Shell-Thick	INVSLE	5.3456	0.2024	-6.26	-0.15	
544	33 Shell-Thick	INVSLE	1.4471	0.0920	-15.31	-0.26	
544	33 Shell-Thick	INVSLE	1.3160	0.0498	-15.28	-0.26	
544	33 Shell-Thick	INVSLE	2.0462	0.0725	-15.28	-0.25	
544	33 Shell-Thick	INVSLE	2.1944	0.1065	-15.31	-0.25	
544	33 Shell-Thick	INVSLU	5.9048	0.3207	-8.46	1.641E-02	
544	33 Shell-Thick	INVSLU	5.4746	0.2899	-8.48	1.641E-02	
544	33 Shell-Thick	INVSLU	8.4482	0.3404	-8.48	-4.291E-02	
544	33 Shell-Thick	INVSLU	8.9998	0.3136	-8.46	-4.291E-02	
544	33 Shell-Thick	INVSLU	1.9535	0.1242	-25.79	-0.35	
544	33 Shell-Thick	INVSLU	1.7766	0.0672	-25.72	-0.35	
544	33 Shell-Thick	INVSLU	2.7624	0.0978	-25.72	-0.33	
544	33 Shell-Thick	INVSLU	2.9625	0.1438	-25.79	-0.33	
545	34 Shell-Thick	INVSLE	5.7915	0.2872	-6.70	-0.16	
545	34 Shell-Thick	INVSLE	5.2490	0.2486	-6.73	-0.16	
545	34 Shell-Thick	INVSLE	7.1718	0.4242	-6.73	-0.16	
545	34 Shell-Thick	INVSLE	7.7770	0.4330	-6.70	-0.16	
545	34 Shell-Thick	INVSLE	2.2861	0.1205	-16.59	-0.25	
545	34 Shell-Thick	INVSLE	2.0664	0.0808	-16.58	-0.25	
545	34 Shell-Thick	INVSLE	2.8496	0.1550	-16.58	-0.23	
545	34 Shell-Thick	INVSLE	3.0846	0.1874	-16.59	-0.23	
545	34 Shell-Thick	INVSLU	9.8565	0.4805	-9.04	-4.337E-02	
545	34 Shell-Thick	INVSLU	8.9396	0.4431	-9.08	-4.337E-02	
545	34 Shell-Thick	INVSLU	12.1841	0.7363	-9.08	-8.328E-02	
545	34 Shell-Thick	INVSLU	13.2183	0.7179	-9.04	-8.328E-02	
545	34 Shell-Thick	INVSLU	3.0862	0.1627	-28.06	-0.34	
545	34 Shell-Thick	INVSLU	2.7896	0.1091	-28.01	-0.34	
545	34 Shell-Thick	INVSLU	3.8469	0.2093	-28.01	-0.31	
545	34 Shell-Thick	INVSLU	4.1643	0.2530	-28.06	-0.31	
546	35 Shell-Thick	INVSLE	17.9373	3.4774	20.91	-1.310E-02	
546	35 Shell-Thick	INVSLE	16.8398	3.4781	21.10	-1.310E-02	
546	35 Shell-Thick	INVSLE	14.4075	3.1050	21.10	-0.27	
546	35 Shell-Thick	INVSLE	15.4224	3.1597	20.91	-0.27	
546	35 Shell-Thick	INVSLE	6.4740	1.2824	7.88	-0.12	
546	35 Shell-Thick	INVSLE	6.2762	1.2676	8.17	-0.12	
546	35 Shell-Thick	INVSLE	5.3375	1.1106	8.17	-0.29	
546	35 Shell-Thick	INVSLE	5.5226	1.1341	7.88	-0.29	
546	35 Shell-Thick	INVSLU	31.2304	6.0226	36.02	-1.768E-02	
546	35 Shell-Thick	INVSLU	29.0897	6.0414	36.09	-1.768E-02	
546	35 Shell-Thick	INVSLU	24.9252	5.4178	36.09	-0.30	
546	35 Shell-Thick	INVSLU	26.9025	5.5087	36.02	-0.30	
546	35 Shell-Thick	INVSLU	8.7399	1.7313	10.63	-0.24	
546	35 Shell-Thick	INVSLU	8.4729	1.7113	11.03	-0.24	
546	35 Shell-Thick	INVSLU	7.2057	1.4993	11.03	-0.39	
546	35 Shell-Thick	INVSLU	7.4555	1.5311	10.63	-0.39	
547	36 Shell-Thick	INVSLE	13.6625	2.8739	19.70	-0.22	
547	36 Shell-Thick	INVSLE	13.4780	2.8529	19.80	-0.22	

547	36 Shell-Thick	INVSLE	11.1741	2.0120	19.80	-0.31	
547	36 Shell-Thick	INVSLE	11.3142	2.0628	19.70	-0.31	
547	36 Shell-Thick	INVSLE	5.0921	1.0774	7.63	-0.24	
547	36 Shell-Thick	INVSLE	5.1015	1.0340	7.83	-0.24	
547	36 Shell-Thick	INVSLE	4.1928	0.7070	7.83	-0.42	
547	36 Shell-Thick	INVSLE	4.1800	0.7527	7.63	-0.42	
547	36 Shell-Thick	INVSLU	23.6008	4.9572	33.69	-0.19	
547	36 Shell-Thick	INVSLU	23.1915	4.9622	33.69	-0.19	
547	36 Shell-Thick	INVSLU	19.2699	3.5252	33.69	-0.19	
547	36 Shell-Thick	INVSLU	19.5871	3.5820	33.69	-0.19	
547	36 Shell-Thick	INVSLU	6.8744	1.4546	10.30	-0.33	
547	36 Shell-Thick	INVSLU	6.8871	1.3959	10.57	-0.33	
547	36 Shell-Thick	INVSLU	5.6602	0.9544	10.57	-0.57	
547	36 Shell-Thick	INVSLU	5.6431	1.0162	10.30	-0.57	
548	37 Shell-Thick	INVSLE	11.0498	1.9354	18.49	-0.39	
548	37 Shell-Thick	INVSLE	10.2679	1.9052	18.45	-0.39	
548	37 Shell-Thick	INVSLE	8.1237	1.2475	18.45	-0.36	
548	37 Shell-Thick	INVSLE	8.8444	1.3186	18.49	-0.36	
548	37 Shell-Thick	INVSLE	4.2359	0.7444	7.32	-0.44	
548	37 Shell-Thick	INVSLE	3.9739	0.6827	7.43	-0.44	
548	37 Shell-Thick	INVSLE	3.1113	0.4338	7.43	-0.53	
548	37 Shell-Thick	INVSLE	3.3617	0.5033	7.32	-0.53	
548	37 Shell-Thick	INVSLU	18.9514	3.3165	31.43	-0.34	
548	37 Shell-Thick	INVSLU	17.5666	3.3229	31.23	-0.34	
548	37 Shell-Thick	INVSLU	13.9361	2.1910	31.23	-0.16	
548	37 Shell-Thick	INVSLU	15.2023	2.2641	31.43	-0.16	
548	37 Shell-Thick	INVSLU	5.7185	1.0049	9.88	-0.60	
548	37 Shell-Thick	INVSLU	5.3648	0.9217	10.02	-0.60	
548	37 Shell-Thick	INVSLU	4.2002	0.5857	10.02	-0.72	
548	37 Shell-Thick	INVSLU	4.5384	0.6794	9.88	-0.72	
549	38 Shell-Thick	INVSLE	8.2985	1.2150	17.13	-0.36	
549	38 Shell-Thick	INVSLE	7.8488	1.1869	17.11	-0.36	
549	38 Shell-Thick	INVSLE	5.8600	0.8306	17.11	-0.34	
549	38 Shell-Thick	INVSLE	6.2539	0.8961	17.13	-0.34	
549	38 Shell-Thick	INVSLE	3.2671	0.4933	6.91	-0.52	
549	38 Shell-Thick	INVSLE	3.0947	0.4216	6.99	-0.52	
549	38 Shell-Thick	INVSLE	2.2819	0.2826	6.99	-0.60	
549	38 Shell-Thick	INVSLE	2.4431	0.3618	6.91	-0.60	
549	38 Shell-Thick	INVSLU	14.1330	2.0519	28.99	-0.16	
549	38 Shell-Thick	INVSLU	13.3617	2.0744	28.85	-0.16	
549	38 Shell-Thick	INVSLU	10.0093	1.4660	28.85	-4.072E-02	
549	38 Shell-Thick	INVSLU	10.6730	1.5156	28.99	-4.072E-02	
549	38 Shell-Thick	INVSLU	4.4105	0.6659	9.32	-0.71	
549	38 Shell-Thick	INVSLU	4.1778	0.5691	9.44	-0.71	
549	38 Shell-Thick	INVSLU	3.0805	0.3815	9.44	-0.81	
549	38 Shell-Thick	INVSLU	3.2982	0.4885	9.32	-0.81	
550	39 Shell-Thick	INVSLE	5.9747	0.8182	15.83	-0.37	
550	39 Shell-Thick	INVSLE	5.5599	0.7926	15.78	-0.37	
550	39 Shell-Thick	INVSLE	3.7287	0.4431	15.78	-0.32	
550	39 Shell-Thick	INVSLE	4.0834	0.5090	15.83	-0.32	
550	39 Shell-Thick	INVSLE	2.4156	0.3547	6.47	-0.60	
550	39 Shell-Thick	INVSLE	2.2400	0.2759	6.52	-0.60	
550	39 Shell-Thick	INVSLE	1.4816	0.1409	6.52	-0.64	
550	39 Shell-Thick	INVSLE	1.6435	0.2290	6.47	-0.64	
550	39 Shell-Thick	INVSLU	10.1019	1.3558	26.68	-9.299E-02	
550	39 Shell-Thick	INVSLU	9.4099	1.3917	26.51	-9.299E-02	
550	39 Shell-Thick	INVSLU	6.3344	0.7935	26.51	6.201E-02	
550	39 Shell-Thick	INVSLU	6.9128	0.8336	26.68	6.201E-02	
550	39 Shell-Thick	INVSLU	3.2611	0.4788	8.74	-0.81	
550	39 Shell-Thick	INVSLU	3.0239	0.3724	8.80	-0.81	
550	39 Shell-Thick	INVSLU	2.0002	0.1902	8.80	-0.87	
550	39 Shell-Thick	INVSLU	2.2187	0.3091	8.74	-0.87	
551	40 Shell-Thick	INVSLE	3.8663	0.4540	14.53	-0.33	
551	40 Shell-Thick	INVSLE	3.6196	0.4328	14.46	-0.33	
551	40 Shell-Thick	INVSLE	1.9411	0.1845	14.46	-0.27	
551	40 Shell-Thick	INVSLE	2.1302	0.2442	14.53	-0.27	
551	40 Shell-Thick	INVSLE	1.6218	0.2258	6.01	-0.64	
551	40 Shell-Thick	INVSLE	1.4967	0.1427	6.04	-0.64	
551	40 Shell-Thick	INVSLE	0.7942	0.0426	6.04	-0.66	
551	40 Shell-Thick	INVSLE	0.9054	0.1351	6.01	-0.66	
551	40 Shell-Thick	INVSLU	6.4691	0.7185	24.41	2.963E-02	
551	40 Shell-Thick	INVSLU	6.0814	0.7693	24.23	2.963E-02	
551	40 Shell-Thick	INVSLU	3.2711	0.3490	24.23	0.19	
551	40 Shell-Thick	INVSLU	3.5505	0.3706	24.41	0.19	
551	40 Shell-Thick	INVSLU	2.1895	0.3049	8.11	-0.87	
551	40 Shell-Thick	INVSLU	2.0205	0.1926	8.15	-0.87	
551	40 Shell-Thick	INVSLU	1.0722	0.0575	8.15	-0.90	
551	40 Shell-Thick	INVSLU	1.2223	0.1824	8.11	-0.90	

552	41	Shell-Thick	INVSLE	2.0419	0.2064	13.26	-0.29
552	41	Shell-Thick	INVSLE	1.8738	0.1911	13.18	-0.29
552	41	Shell-Thick	INVSLE	0.3455	-0.0529	13.18	-0.22
552	41	Shell-Thick	INVSLE	0.4557	0.0424	13.26	-0.22
552	41	Shell-Thick	INVSLE	0.9195	0.1353	5.54	-0.67
552	41	Shell-Thick	INVSLE	0.8179	0.0499	5.55	-0.67
552	41	Shell-Thick	INVSLE	0.1726	-0.0634	5.55	-0.68
552	41	Shell-Thick	INVSLE	0.2593	-0.0094	5.54	-0.68
552	41	Shell-Thick	INVSLU	3.3434	0.2892	22.22	0.14
552	41	Shell-Thick	INVSLU	3.0982	0.3549	22.03	0.14
552	41	Shell-Thick	INVSLU	0.5459	-0.0714	22.03	0.31
552	41	Shell-Thick	INVSLU	0.6834	0.0573	22.22	0.31
552	41	Shell-Thick	INVSLU	1.2413	0.1827	7.48	-0.90
552	41	Shell-Thick	INVSLU	1.1042	0.0674	7.49	-0.90
552	41	Shell-Thick	INVSLU	0.2331	-0.0871	7.49	-0.91
552	41	Shell-Thick	INVSLU	0.3501	-0.0695	7.48	-0.91
553	42	Shell-Thick	INVSLE	0.4292	0.0462	12.02	-0.24
553	42	Shell-Thick	INVSLE	0.3731	-0.0401	11.93	-0.24
553	42	Shell-Thick	INVSLE	-0.3622	-0.1276	11.93	-0.16
553	42	Shell-Thick	INVSLE	-0.3133	-0.0315	12.02	-0.16
553	42	Shell-Thick	INVSLE	0.2893	-0.0319	5.06	-0.68
553	42	Shell-Thick	INVSLE	0.2259	-0.0406	5.05	-0.68
553	42	Shell-Thick	INVSLE	-1.0098	-0.2488	5.05	-0.68
553	42	Shell-Thick	INVSLE	-1.0087	-0.2033	5.06	-0.68
553	42	Shell-Thick	INVSLU	0.6004	0.0624	20.10	0.27
553	42	Shell-Thick	INVSLU	0.5438	-0.0413	19.90	0.27
553	42	Shell-Thick	INVSLU	-0.4890	-0.1722	19.90	0.43
553	42	Shell-Thick	INVSLU	-0.4230	-0.0426	20.10	0.43
553	42	Shell-Thick	INVSLU	0.3906	-0.1225	6.83	-0.92
553	42	Shell-Thick	INVSLU	0.3049	-0.0549	6.82	-0.92
553	42	Shell-Thick	INVSLU	-1.7608	-0.3894	6.82	-0.91
553	42	Shell-Thick	INVSLU	-1.8151	-0.4025	6.83	-0.91
554	43	Shell-Thick	INVSLE	-0.2625	-0.0251	10.81	-0.19
554	43	Shell-Thick	INVSLE	-0.2991	-0.1112	10.72	-0.19
554	43	Shell-Thick	INVSLE	-0.8302	-0.1989	10.72	-0.10
554	43	Shell-Thick	INVSLE	-0.8080	-0.1032	10.81	-0.10
554	43	Shell-Thick	INVSLE	-0.9649	-0.2146	4.58	-0.68
554	43	Shell-Thick	INVSLE	-0.9470	-0.2163	4.57	-0.68
554	43	Shell-Thick	INVSLE	-2.1884	-0.4243	4.57	-0.67
554	43	Shell-Thick	INVSLE	-2.2592	-0.3872	4.58	-0.67
554	43	Shell-Thick	INVSLU	-0.3543	-0.0339	18.04	0.39
554	43	Shell-Thick	INVSLU	-0.4038	-0.1501	17.85	0.39
554	43	Shell-Thick	INVSLU	-1.1208	-0.2686	17.85	0.55
554	43	Shell-Thick	INVSLU	-1.0909	-0.1393	18.04	0.55
554	43	Shell-Thick	INVSLU	-1.7794	-0.4342	6.18	-0.92
554	43	Shell-Thick	INVSLU	-1.6982	-0.3381	6.16	-0.92
554	43	Shell-Thick	INVSLU	-3.7633	-0.6857	6.16	-0.91
554	43	Shell-Thick	INVSLU	-3.9421	-0.7165	6.18	-0.91
555	44	Shell-Thick	INVSLE	-0.7469	-0.0945	9.63	-0.12
555	44	Shell-Thick	INVSLE	-0.7525	-0.1798	9.54	-0.12
555	44	Shell-Thick	INVSLE	-1.2274	-0.2572	9.54	-4.409E-02
555	44	Shell-Thick	INVSLE	-1.2355	-0.1627	9.63	-4.409E-02
555	44	Shell-Thick	INVSLE	-2.1783	-0.3891	4.10	-0.68
555	44	Shell-Thick	INVSLE	-2.0775	-0.3840	4.08	-0.68
555	44	Shell-Thick	INVSLE	-3.1821	-0.5622	4.08	-0.66
555	44	Shell-Thick	INVSLE	-3.3322	-0.5344	4.10	-0.66
555	44	Shell-Thick	INVSLU	-1.0083	-0.1276	16.05	0.51
555	44	Shell-Thick	INVSLU	-1.0159	-0.2427	15.87	0.51
555	44	Shell-Thick	INVSLU	-1.6570	-0.3472	15.87	0.67
555	44	Shell-Thick	INVSLU	-1.6679	-0.2197	16.05	0.67
555	44	Shell-Thick	INVSLU	-3.8383	-0.7307	5.53	-0.91
555	44	Shell-Thick	INVSLU	-3.6139	-0.6208	5.51	-0.91
555	44	Shell-Thick	INVSLU	-5.4488	-0.9159	5.51	-0.89
555	44	Shell-Thick	INVSLU	-5.7635	-0.9654	5.53	-0.89
556	45	Shell-Thick	INVSLE	-1.1649	-0.1528	8.49	-6.539E-02
556	45	Shell-Thick	INVSLE	-1.1462	-0.2368	8.40	-6.539E-02
556	45	Shell-Thick	INVSLE	-1.5657	-0.3110	8.40	1.209E-02
556	45	Shell-Thick	INVSLE	-1.5974	-0.2183	8.49	1.209E-02
556	45	Shell-Thick	INVSLE	-3.2176	-0.5300	3.63	-0.67
556	45	Shell-Thick	INVSLE	-3.0549	-0.5183	3.61	-0.67
556	45	Shell-Thick	INVSLE	-4.0268	-0.6891	3.61	-0.65
556	45	Shell-Thick	INVSLE	-4.2352	-0.6702	3.63	-0.65
556	45	Shell-Thick	INVSLU	-1.5726	-0.2063	14.13	0.63
556	45	Shell-Thick	INVSLU	-1.5474	-0.3196	13.96	0.63
556	45	Shell-Thick	INVSLU	-2.1137	-0.4199	13.96	0.78
556	45	Shell-Thick	INVSLU	-2.1565	-0.2947	14.13	0.78
556	45	Shell-Thick	INVSLU	-5.5980	-0.9673	4.90	-0.90
556	45	Shell-Thick	INVSLU	-5.2682	-0.8447	4.87	-0.90

556	45	Shell-Thick	INVSLU	-6.8808	-1.1275	4.87	-0.87	
556	45	Shell-Thick	INVSLU	-7.2940	-1.1942	4.90	-0.87	
557	46	Shell-Thick	INVSLE	-1.5245	-0.2076	7.38	-7.007E-03	
557	46	Shell-Thick	INVSLE	-1.4810	-0.2902	7.29	-7.007E-03	
557	46	Shell-Thick	INVSLE	-1.8462	-0.3549	7.29	6.485E-02	
557	46	Shell-Thick	INVSLE	-1.9016	-0.2644	7.38	6.485E-02	
557	46	Shell-Thick	INVSLE	-4.1074	-0.6612	3.16	-0.65	
557	46	Shell-Thick	INVSLE	-3.8820	-0.6436	3.14	-0.65	
557	46	Shell-Thick	INVSLE	-4.7255	-0.7895	3.14	-0.63	
557	46	Shell-Thick	INVSLE	-4.9919	-0.7797	3.16	-0.63	
557	46	Shell-Thick	INVSLU	-2.0581	-0.2803	12.26	0.74	
557	46	Shell-Thick	INVSLU	-1.9993	-0.3917	12.11	0.74	
557	46	Shell-Thick	INVSLU	-2.4924	-0.4792	12.11	0.88	
557	46	Shell-Thick	INVSLU	-2.5672	-0.3570	12.26	0.88	
557	46	Shell-Thick	INVSLU	-7.1026	-1.1871	4.27	-0.88	
557	46	Shell-Thick	INVSLU	-6.6663	-1.0534	4.24	-0.88	
557	46	Shell-Thick	INVSLU	-8.0644	-1.2934	4.24	-0.86	
557	46	Shell-Thick	INVSLU	-8.5753	-1.3772	4.27	-0.86	
558	47	Shell-Thick	INVSLE	-1.8286	-0.2537	6.29	4.695E-02	
558	47	Shell-Thick	INVSLE	-1.7651	-0.3348	6.22	4.695E-02	
558	47	Shell-Thick	INVSLE	-2.0772	-0.3937	6.22	0.11	
558	47	Shell-Thick	INVSLE	-2.1513	-0.3054	6.29	0.11	
558	47	Shell-Thick	INVSLE	-4.8563	-0.7681	2.71	-0.64	
558	47	Shell-Thick	INVSLE	-4.5825	-0.7453	2.68	-0.64	
558	47	Shell-Thick	INVSLE	-5.3013	-0.8781	2.68	-0.62	
558	47	Shell-Thick	INVSLE	-5.6113	-0.8766	2.71	-0.62	
558	47	Shell-Thick	INVSLU	-2.4686	-0.3425	10.45	0.84	
558	47	Shell-Thick	INVSLU	-2.3829	-0.4520	10.32	0.84	
558	47	Shell-Thick	INVSLU	-2.8042	-0.5315	10.32	0.96	
558	47	Shell-Thick	INVSLU	-2.9043	-0.4124	10.45	0.96	
558	47	Shell-Thick	INVSLU	-8.3673	-1.3647	3.65	-0.86	
558	47	Shell-Thick	INVSLU	-7.8497	-1.2214	3.62	-0.86	
558	47	Shell-Thick	INVSLU	-9.0400	-1.4399	3.62	-0.84	
558	47	Shell-Thick	INVSLU	-9.6236	-1.5390	3.65	-0.84	
559	48	Shell-Thick	INVSLE	-2.0831	-0.2952	5.24	9.632E-02	
559	48	Shell-Thick	INVSLE	-2.0010	-0.3750	5.17	9.632E-02	
559	48	Shell-Thick	INVSLE	-2.2609	-0.4242	5.17	0.15	
559	48	Shell-Thick	INVSLE	-2.3522	-0.3382	5.24	0.15	
559	48	Shell-Thick	INVSLE	-5.4814	-0.8640	2.26	-0.62	
559	48	Shell-Thick	INVSLE	-5.1620	-0.8369	2.24	-0.62	
559	48	Shell-Thick	INVSLE	-5.7594	-0.9462	2.24	-0.61	
559	48	Shell-Thick	INVSLE	-6.1097	-0.9526	2.26	-0.61	
559	48	Shell-Thick	INVSLU	-2.8122	-0.3986	8.69	0.93	
559	48	Shell-Thick	INVSLU	-2.7013	-0.5063	8.58	0.93	
559	48	Shell-Thick	INVSLU	-3.0522	-0.5726	8.58	1.03	
559	48	Shell-Thick	INVSLU	-3.1755	-0.4566	8.69	1.03	
559	48	Shell-Thick	INVSLU	-9.4221	-1.5235	3.04	-0.84	
559	48	Shell-Thick	INVSLU	-8.8276	-1.3725	3.02	-0.84	
559	48	Shell-Thick	INVSLU	-9.8163	-1.5515	3.02	-0.82	
559	48	Shell-Thick	INVSLU	-10.4670	-1.6650	3.04	-0.82	
560	49	Shell-Thick	INVSLE	-2.2910	-0.3291	4.20	0.14	
560	49	Shell-Thick	INVSLE	-2.1943	-0.4078	4.15	0.14	
560	49	Shell-Thick	INVSLE	-2.4030	-0.4490	4.15	0.19	
560	49	Shell-Thick	INVSLE	-2.5074	-0.3653	4.20	0.19	
560	49	Shell-Thick	INVSLE	-5.9902	-0.9403	1.81	-0.61	
560	49	Shell-Thick	INVSLE	-5.6362	-0.9099	1.80	-0.61	
560	49	Shell-Thick	INVSLE	-6.1152	-1.0020	1.80	-0.60	
560	49	Shell-Thick	INVSLE	-6.4946	-1.0153	1.81	-0.60	
560	49	Shell-Thick	INVSLU	-3.0929	-0.4442	6.97	1.01	
560	49	Shell-Thick	INVSLU	-2.9623	-0.5505	6.88	1.01	
560	49	Shell-Thick	INVSLU	-3.2441	-0.6062	6.88	1.09	
560	49	Shell-Thick	INVSLU	-3.3850	-0.4931	6.97	1.09	
560	49	Shell-Thick	INVSLU	-10.2799	-1.6491	2.45	-0.83	
560	49	Shell-Thick	INVSLU	-9.6275	-1.4922	2.43	-0.83	
560	49	Shell-Thick	INVSLU	-10.4198	-1.6432	2.43	-0.81	
560	49	Shell-Thick	INVSLU	-11.1183	-1.7691	2.45	-0.81	
561	50	Shell-Thick	INVSLE	-2.4565	-0.3575	3.19	0.18	
561	50	Shell-Thick	INVSLE	-2.3472	-0.4354	3.14	0.18	
561	50	Shell-Thick	INVSLE	-2.5056	-0.4667	3.14	0.21	
561	50	Shell-Thick	INVSLE	-2.6208	-0.3848	3.19	0.21	
561	50	Shell-Thick	INVSLE	-6.3943	-1.0043	1.38	-0.60	
561	50	Shell-Thick	INVSLE	-6.0099	-0.9718	1.36	-0.60	
561	50	Shell-Thick	INVSLE	-6.3729	-1.0408	1.36	-0.59	
561	50	Shell-Thick	INVSLE	-6.7768	-1.0602	1.38	-0.59	
561	50	Shell-Thick	INVSLU	-3.3163	-0.4827	5.28	1.07	
561	50	Shell-Thick	INVSLU	-3.1687	-0.5878	5.21	1.07	
561	50	Shell-Thick	INVSLU	-3.3825	-0.6300	5.21	1.14	
561	50	Shell-Thick	INVSLU	-3.5381	-0.5195	5.28	1.14	

561	50 Shell-Thick	INVSLU	-10.9606	-1.7544	1.86	-0.81
561	50 Shell-Thick	INVSLU	-10.2572	-1.5938	1.84	-0.81
561	50 Shell-Thick	INVSLU	-10.8575	-1.7065	1.84	-0.79
561	50 Shell-Thick	INVSLU	-11.5962	-1.8435	1.86	-0.79
562	51 Shell-Thick	INVSLE	-2.5817	-0.3789	2.18	0.20
562	51 Shell-Thick	INVSLE	-2.4636	-0.4564	2.16	0.20
562	51 Shell-Thick	INVSLE	-2.5722	-0.4785	2.16	0.23
562	51 Shell-Thick	INVSLE	-2.6945	-0.3983	2.18	0.23
562	51 Shell-Thick	INVSLE	-6.6987	-1.0516	0.94	-0.59
562	51 Shell-Thick	INVSLE	-6.2934	-1.0180	0.94	-0.59
562	51 Shell-Thick	INVSLE	-6.5422	-1.0670	0.94	-0.58
562	51 Shell-Thick	INVSLE	-6.9611	-1.0915	0.94	-0.58
562	51 Shell-Thick	INVSLU	-3.4853	-0.5115	3.62	1.12
562	51 Shell-Thick	INVSLU	-3.3258	-0.6161	3.57	1.12
562	51 Shell-Thick	INVSLU	-3.4725	-0.6460	3.57	1.17
562	51 Shell-Thick	INVSLU	-3.6375	-0.5377	3.62	1.17
562	51 Shell-Thick	INVSLU	-11.4729	-1.8316	1.28	-0.80
562	51 Shell-Thick	INVSLU	-10.7346	-1.6692	1.26	-0.80
562	51 Shell-Thick	INVSLU	-11.1460	-1.7494	1.26	-0.79
562	51 Shell-Thick	INVSLU	-11.9088	-1.8953	1.28	-0.79
563	52 Shell-Thick	INVSLE	-2.6691	-0.3944	1.19	0.22
563	52 Shell-Thick	INVSLE	-2.5446	-0.4718	1.18	0.22
563	52 Shell-Thick	INVSLE	-2.6040	-0.4838	1.18	0.24
563	52 Shell-Thick	INVSLE	-2.7308	-0.4049	1.19	0.24
563	52 Shell-Thick	INVSLE	-6.9104	-1.0856	0.52	-0.58
563	52 Shell-Thick	INVSLE	-6.4891	-1.0521	0.51	-0.58
563	52 Shell-Thick	INVSLE	-6.6251	-1.0785	0.51	-0.58
563	52 Shell-Thick	INVSLE	-7.0537	-1.1070	0.52	-0.58
563	52 Shell-Thick	INVSLU	-3.6033	-0.5324	1.98	1.16
563	52 Shell-Thick	INVSLU	-3.4352	-0.6369	1.95	1.16
563	52 Shell-Thick	INVSLU	-3.5154	-0.6531	1.95	1.19
563	52 Shell-Thick	INVSLU	-3.6866	-0.5466	1.98	1.19
563	52 Shell-Thick	INVSLU	-11.8286	-1.8871	0.70	-0.79
563	52 Shell-Thick	INVSLU	-11.0633	-1.7250	0.69	-0.79
563	52 Shell-Thick	INVSLU	-11.2881	-1.7681	0.69	-0.78
563	52 Shell-Thick	INVSLU	-12.0667	-1.9213	0.70	-0.78
564	53 Shell-Thick	INVSLE	-2.7197	-0.4032	0.21	0.24
564	53 Shell-Thick	INVSLE	-2.5924	-0.4809	0.21	0.24
564	53 Shell-Thick	INVSLE	-2.6028	-0.4830	0.21	0.24
564	53 Shell-Thick	INVSLE	-2.7305	-0.4050	0.21	0.24
564	53 Shell-Thick	INVSLE	-7.0312	-1.1044	9.049E-02	-0.58
564	53 Shell-Thick	INVSLE	-6.6029	-1.0721	8.957E-02	-0.58
564	53 Shell-Thick	INVSLE	-6.6268	-1.0768	8.957E-02	-0.58
564	53 Shell-Thick	INVSLE	-7.0562	-1.1082	9.049E-02	-0.58
564	53 Shell-Thick	INVSLU	-3.6716	-0.5443	0.35	1.18
564	53 Shell-Thick	INVSLU	-3.4997	-0.6493	0.34	1.18
564	53 Shell-Thick	INVSLU	-3.5138	-0.6521	0.34	1.19
564	53 Shell-Thick	INVSLU	-3.6861	-0.5468	0.35	1.19
564	53 Shell-Thick	INVSLU	-12.0309	-1.9176	0.12	-0.78
564	53 Shell-Thick	INVSLU	-11.2536	-1.7577	0.12	-0.78
564	53 Shell-Thick	INVSLU	-11.2931	-1.7653	0.12	-0.78
564	53 Shell-Thick	INVSLU	-12.0725	-1.9237	0.12	-0.78
565	54 Shell-Thick	INVSLE	-2.7344	-0.4056	-0.34	0.24
565	54 Shell-Thick	INVSLE	-2.6068	-0.4841	-0.33	0.24
565	54 Shell-Thick	INVSLE	-2.5683	-0.4763	-0.33	0.23
565	54 Shell-Thick	INVSLE	-2.6944	-0.3988	-0.34	0.23
565	54 Shell-Thick	INVSLE	-7.0642	-1.1090	-0.77	-0.58
565	54 Shell-Thick	INVSLE	-6.6339	-1.0791	-0.76	-0.58
565	54 Shell-Thick	INVSLE	-6.5458	-1.0621	-0.76	-0.58
565	54 Shell-Thick	INVSLE	-6.9710	-1.0953	-0.77	-0.58
565	54 Shell-Thick	INVSLU	-3.6915	-0.5475	-0.45	1.19
565	54 Shell-Thick	INVSLU	-3.5191	-0.6535	-0.45	1.19
565	54 Shell-Thick	INVSLU	-3.4671	-0.6430	-0.45	1.17
565	54 Shell-Thick	INVSLU	-3.6374	-0.5384	-0.45	1.17
565	54 Shell-Thick	INVSLU	-12.0850	-1.9246	-1.28	-0.78
565	54 Shell-Thick	INVSLU	-11.3039	-1.7691	-1.27	-0.78
565	54 Shell-Thick	INVSLU	-11.1582	-1.7413	-1.27	-0.79
565	54 Shell-Thick	INVSLU	-11.9303	-1.9029	-1.28	-0.79
566	55 Shell-Thick	INVSLE	-2.7128	-0.4016	-0.76	0.23
566	55 Shell-Thick	INVSLE	-2.5885	-0.4813	-0.75	0.23
566	55 Shell-Thick	INVSLE	-2.5009	-0.4633	-0.75	0.21
566	55 Shell-Thick	INVSLE	-2.6218	-0.3859	-0.76	0.21
566	55 Shell-Thick	INVSLE	-7.0076	-1.0993	-1.76	-0.58
566	55 Shell-Thick	INVSLE	-6.5843	-1.0730	-1.74	-0.58
566	55 Shell-Thick	INVSLE	-6.3838	-1.0332	-1.74	-0.59
566	55 Shell-Thick	INVSLE	-6.7958	-1.0670	-1.76	-0.59
566	55 Shell-Thick	INVSLU	-3.6623	-0.5422	-1.03	1.18
566	55 Shell-Thick	INVSLU	-3.4945	-0.6497	-1.02	1.18

566	55	Shell-Thick	INVSLU	-3.3762	-0.6254	-1.02	1.14	
566	55	Shell-Thick	INVSLU	-3.5394	-0.5210	-1.03	1.14	
566	55	Shell-Thick	INVSLU	-11.9880	-1.9084	-2.92	-0.78	
566	55	Shell-Thick	INVSLU	-11.2180	-1.7593	-2.88	-0.78	
566	55	Shell-Thick	INVSLU	-10.8865	-1.6941	-2.88	-0.79	
566	55	Shell-Thick	INVSLU	-11.6361	-1.8569	-2.92	-0.79	
567	56	Shell-Thick	INVSLE	-2.6544	-0.3908	-1.19	0.22	
567	56	Shell-Thick	INVSLE	-2.5358	-0.4719	-1.18	0.22	
567	56	Shell-Thick	INVSLE	-2.3987	-0.4448	-1.18	0.19	
567	56	Shell-Thick	INVSLE	-2.5121	-0.3671	-1.19	0.19	
567	56	Shell-Thick	INVSLE	-6.8608	-1.0740	-2.76	-0.59	
567	56	Shell-Thick	INVSLE	-6.4495	-1.0524	-2.72	-0.59	
567	56	Shell-Thick	INVSLE	-6.1354	-0.9925	-2.72	-0.60	
567	56	Shell-Thick	INVSLE	-6.5295	-1.0258	-2.76	-0.60	
567	56	Shell-Thick	INVSLU	-3.5835	-0.5276	-1.61	1.15	
567	56	Shell-Thick	INVSLU	-3.4234	-0.6371	-1.59	1.15	
567	56	Shell-Thick	INVSLU	-3.2383	-0.6004	-1.59	1.10	
567	56	Shell-Thick	INVSLU	-3.3913	-0.4956	-1.61	1.10	
567	56	Shell-Thick	INVSLU	-11.7387	-1.8664	-4.57	-0.79	
567	56	Shell-Thick	INVSLU	-10.9879	-1.7254	-4.51	-0.79	
567	56	Shell-Thick	INVSLU	-10.4686	-1.6277	-4.51	-0.80	
567	56	Shell-Thick	INVSLU	-11.1881	-1.7895	-4.57	-0.80	
568	57	Shell-Thick	INVSLE	-2.5571	-0.3739	-1.63	0.20	
568	57	Shell-Thick	INVSLE	-2.4481	-0.4569	-1.61	0.20	
568	57	Shell-Thick	INVSLE	-2.2610	-0.4195	-1.61	0.16	
568	57	Shell-Thick	INVSLE	-2.3629	-0.3412	-1.63	0.16	
568	57	Shell-Thick	INVSLE	-6.6182	-1.0353	-3.77	-0.59	
568	57	Shell-Thick	INVSLE	-6.2285	-1.0193	-3.72	-0.59	
568	57	Shell-Thick	INVSLE	-5.7993	-0.9360	-3.72	-0.61	
568	57	Shell-Thick	INVSLE	-6.1657	-0.9676	-3.77	-0.61	
568	57	Shell-Thick	INVSLU	-3.4521	-0.5048	-2.20	1.12	
568	57	Shell-Thick	INVSLU	-3.3050	-0.6168	-2.18	1.12	
568	57	Shell-Thick	INVSLU	-3.0523	-0.5663	-2.18	1.04	
568	57	Shell-Thick	INVSLU	-3.1899	-0.4606	-2.20	1.04	
568	57	Shell-Thick	INVSLU	-11.3276	-1.8023	-6.25	-0.80	
568	57	Shell-Thick	INVSLU	-10.6123	-1.6716	-6.16	-0.80	
568	57	Shell-Thick	INVSLU	-9.9024	-1.5351	-6.16	-0.82	
568	57	Shell-Thick	INVSLU	-10.5756	-1.6940	-6.25	-0.82	
569	58	Shell-Thick	INVSLE	-2.4192	-0.3495	-2.07	0.17	
569	58	Shell-Thick	INVSLE	-2.3220	-0.4346	-2.05	0.17	
569	58	Shell-Thick	INVSLE	-2.0840	-0.3892	-2.05	0.12	
569	58	Shell-Thick	INVSLE	-2.1726	-0.3099	-2.07	0.12	
569	58	Shell-Thick	INVSLE	-6.2758	-0.9788	-4.79	-0.60	
569	58	Shell-Thick	INVSLE	-5.9121	-0.9694	-4.73	-0.60	
569	58	Shell-Thick	INVSLE	-5.3656	-0.8688	-4.73	-0.62	
569	58	Shell-Thick	INVSLE	-5.7004	-0.8975	-4.79	-0.62	
569	58	Shell-Thick	INVSLU	-3.2659	-0.4719	-2.79	1.06	
569	58	Shell-Thick	INVSLU	-3.1346	-0.5866	-2.77	1.06	
569	58	Shell-Thick	INVSLU	-2.8134	-0.5254	-2.77	0.97	
569	58	Shell-Thick	INVSLU	-2.9329	-0.4184	-2.79	0.97	
569	58	Shell-Thick	INVSLU	-10.7481	-1.7086	-7.95	-0.81	
569	58	Shell-Thick	INVSLU	-10.0754	-1.5896	-7.85	-0.81	
569	58	Shell-Thick	INVSLU	-9.1710	-1.4250	-7.85	-0.84	
569	58	Shell-Thick	INVSLU	-9.7914	-1.5789	-7.95	-0.84	
570	59	Shell-Thick	INVSLE	-2.2368	-0.3195	-2.51	0.13	
570	59	Shell-Thick	INVSLE	-2.1557	-0.4068	-2.49	0.13	
570	59	Shell-Thick	INVSLE	-1.8660	-0.3514	-2.49	6.910E-02	
570	59	Shell-Thick	INVSLE	-1.9369	-0.2709	-2.51	6.910E-02	
570	59	Shell-Thick	INVSLE	-5.8234	-0.9096	-5.84	-0.61	
570	59	Shell-Thick	INVSLE	-5.4971	-0.9077	-5.77	-0.61	
570	59	Shell-Thick	INVSLE	-4.8305	-0.7830	-5.77	-0.63	
570	59	Shell-Thick	INVSLE	-5.1225	-0.8079	-5.84	-0.63	
570	59	Shell-Thick	INVSLU	-3.0197	-0.4313	-3.39	0.99	
570	59	Shell-Thick	INVSLU	-2.9101	-0.5491	-3.37	0.99	
570	59	Shell-Thick	INVSLU	-2.5191	-0.4744	-3.37	0.88	
570	59	Shell-Thick	INVSLU	-2.6149	-0.3658	-3.39	0.88	
570	59	Shell-Thick	INVSLU	-9.9826	-1.5938	-9.70	-0.83	
570	59	Shell-Thick	INVSLU	-9.3718	-1.4885	-9.57	-0.83	
570	59	Shell-Thick	INVSLU	-8.2683	-1.2836	-9.57	-0.85	
570	59	Shell-Thick	INVSLU	-8.8166	-1.4307	-9.70	-0.85	
571	60	Shell-Thick	INVSLE	-2.0074	-0.2812	-2.97	8.626E-02	
571	60	Shell-Thick	INVSLE	-1.9437	-0.3707	-2.95	8.626E-02	
571	60	Shell-Thick	INVSLE	-1.6013	-0.3093	-2.95	1.729E-02	
571	60	Shell-Thick	INVSLE	-1.6535	-0.2274	-2.97	1.729E-02	
571	60	Shell-Thick	INVSLE	-5.2545	-0.8194	-6.91	-0.63	
571	60	Shell-Thick	INVSLE	-4.9684	-0.8256	-6.83	-0.63	
571	60	Shell-Thick	INVSLE	-4.1787	-0.6877	-6.83	-0.65	
571	60	Shell-Thick	INVSLE	-4.4255	-0.7078	-6.91	-0.65	

571	60	Shell-Thick	INVSLU	-2.7100	-0.3796	-4.00	0.91
571	60	Shell-Thick	INVSLU	-2.6240	-0.5005	-3.98	0.91
571	60	Shell-Thick	INVSLU	-2.1617	-0.4176	-3.98	0.79
571	60	Shell-Thick	INVSLU	-2.2322	-0.3070	-4.00	0.79
571	60	Shell-Thick	INVSLU	-9.0200	-1.4435	-11.49	-0.85
571	60	Shell-Thick	INVSLU	-8.4760	-1.3530	-11.34	-0.85
571	60	Shell-Thick	INVSLU	-7.1675	-1.1266	-11.34	-0.87
571	60	Shell-Thick	INVSLU	-7.6400	-1.2649	-11.49	-0.87
572	61	Shell-Thick	INVSLE	-1.7252	-0.2379	-3.43	3.575E-02
572	61	Shell-Thick	INVSLE	-1.6842	-0.3297	-3.41	3.575E-02
572	61	Shell-Thick	INVSLE	-1.2880	-0.2584	-3.41	-3.963E-02
572	61	Shell-Thick	INVSLE	-1.3163	-0.1751	-3.43	-3.963E-02
572	61	Shell-Thick	INVSLE	-4.5534	-0.7174	-8.01	-0.64
572	61	Shell-Thick	INVSLE	-4.3222	-0.7324	-7.93	-0.64
572	61	Shell-Thick	INVSLE	-3.4057	-0.5690	-7.93	-0.66
572	61	Shell-Thick	INVSLE	-3.5928	-0.5835	-8.01	-0.66
572	61	Shell-Thick	INVSLU	-2.3290	-0.3212	-4.63	0.82
572	61	Shell-Thick	INVSLU	-2.2736	-0.4451	-4.60	0.82
572	61	Shell-Thick	INVSLU	-1.7388	-0.3488	-4.60	0.68
572	61	Shell-Thick	INVSLU	-1.7770	-0.2364	-4.63	0.68
572	61	Shell-Thick	INVSLU	-7.8330	-1.2734	-13.33	-0.87
572	61	Shell-Thick	INVSLU	-7.3813	-1.1994	-13.17	-0.87
572	61	Shell-Thick	INVSLU	-5.8614	-0.9293	-13.17	-0.89
572	61	Shell-Thick	INVSLU	-6.2326	-1.0572	-13.33	-0.89
573	62	Shell-Thick	INVSLE	-1.3874	-0.1851	-3.90	-1.873E-02
573	62	Shell-Thick	INVSLE	-1.3688	-0.2788	-3.88	-1.873E-02
573	62	Shell-Thick	INVSLE	-0.9177	-0.2043	-3.88	-9.822E-02
573	62	Shell-Thick	INVSLE	-0.9228	-0.1196	-3.90	-9.822E-02
573	62	Shell-Thick	INVSLE	-3.7120	-0.5892	-9.14	-0.66
573	62	Shell-Thick	INVSLE	-3.5353	-0.6131	-9.05	-0.66
573	62	Shell-Thick	INVSLE	-2.4879	-0.4427	-9.05	-0.67
573	62	Shell-Thick	INVSLE	-2.6168	-0.4509	-9.14	-0.67
573	62	Shell-Thick	INVSLU	-1.8730	-0.2499	-5.26	0.72
573	62	Shell-Thick	INVSLU	-1.8479	-0.3764	-5.24	0.72
573	62	Shell-Thick	INVSLU	-1.2389	-0.2758	-5.24	0.57
573	62	Shell-Thick	INVSLU	-1.2458	-0.1615	-5.26	0.57
573	62	Shell-Thick	INVSLU	-6.4077	-1.0579	-15.22	-0.88
573	62	Shell-Thick	INVSLU	-6.0476	-1.0008	-15.05	-0.88
573	62	Shell-Thick	INVSLU	-4.3087	-0.7192	-15.05	-0.91
573	62	Shell-Thick	INVSLU	-4.5812	-0.8350	-15.22	-0.91
574	63	Shell-Thick	INVSLE	-0.9861	-0.1285	-4.37	-7.742E-02
574	63	Shell-Thick	INVSLE	-0.9970	-0.2239	-4.36	-7.742E-02
574	63	Shell-Thick	INVSLE	-0.4900	-0.1386	-4.36	-0.16
574	63	Shell-Thick	INVSLE	-0.4648	-0.0529	-4.37	-0.16
574	63	Shell-Thick	INVSLE	-2.7071	-0.4510	-10.31	-0.67
574	63	Shell-Thick	INVSLE	-2.6065	-0.4843	-10.21	-0.67
574	63	Shell-Thick	INVSLE	-1.4243	-0.2833	-10.21	-0.68
574	63	Shell-Thick	INVSLE	-1.4730	-0.2848	-10.31	-0.68
574	63	Shell-Thick	INVSLU	-1.3312	-0.1735	-5.90	0.61
574	63	Shell-Thick	INVSLU	-1.3459	-0.3022	-5.88	0.61
574	63	Shell-Thick	INVSLU	-0.6615	-0.1871	-5.88	0.44
574	63	Shell-Thick	INVSLU	-0.6275	-0.0714	-5.90	0.44
574	63	Shell-Thick	INVSLU	-4.7029	-0.8250	-17.19	-0.90
574	63	Shell-Thick	INVSLU	-4.4730	-0.7864	-17.00	-0.90
574	63	Shell-Thick	INVSLU	-2.5076	-0.4512	-17.00	-0.92
574	63	Shell-Thick	INVSLU	-2.6421	-0.5537	-17.19	-0.92
575	64	Shell-Thick	INVSLE	-0.5199	-0.0599	-4.85	-0.14
575	64	Shell-Thick	INVSLE	-0.5562	-0.1559	-4.84	-0.14
575	64	Shell-Thick	INVSLE	0.0075	-0.0713	-4.84	-0.22
575	64	Shell-Thick	INVSLE	0.0583	0.0149	-4.85	-0.22
575	64	Shell-Thick	INVSLE	-1.5329	-0.2766	-11.50	-0.67
575	64	Shell-Thick	INVSLE	-1.4989	-0.3184	-11.41	-0.67
575	64	Shell-Thick	INVSLE	-0.1771	-0.1193	-11.41	-0.68
575	64	Shell-Thick	INVSLE	-0.1569	-0.1138	-11.50	-0.68
575	64	Shell-Thick	INVSLU	-0.7019	-0.0808	-6.55	0.49
575	64	Shell-Thick	INVSLU	-0.7508	-0.2104	-6.54	0.49
575	64	Shell-Thick	INVSLU	0.0102	-0.0963	-6.54	0.32
575	64	Shell-Thick	INVSLU	0.0787	0.0201	-6.55	0.32
575	64	Shell-Thick	INVSLU	-2.7076	-0.5280	-19.21	-0.91
575	64	Shell-Thick	INVSLU	-2.5921	-0.5069	-19.02	-0.91
575	64	Shell-Thick	INVSLU	-0.3912	-0.1750	-19.02	-0.92
575	64	Shell-Thick	INVSLU	-0.4065	-0.2630	-19.21	-0.92
576	65	Shell-Thick	INVSLE	0.0228	0.0103	-5.33	-0.20
576	65	Shell-Thick	INVSLE	-0.0514	-0.0856	-5.34	-0.20
576	65	Shell-Thick	INVSLE	1.2408	0.0994	-5.34	-0.27
576	65	Shell-Thick	INVSLE	1.3711	0.1116	-5.33	-0.27
576	65	Shell-Thick	INVSLE	-0.1516	-0.0954	-12.73	-0.68
576	65	Shell-Thick	INVSLE	-0.2245	-0.1461	-12.64	-0.68

576	65	Shell-Thick	INVSLE	0.5694	0.0144	-12.64	-0.67
576	65	Shell-Thick	INVSLE	0.6586	0.1002	-12.73	-0.67
576	65	Shell-Thick	INVSLU	0.0308	0.0139	-7.20	0.36
576	65	Shell-Thick	INVSLU	-0.0693	-0.1156	-7.20	0.36
576	65	Shell-Thick	INVSLU	2.0192	0.1980	-7.20	0.19
576	65	Shell-Thick	INVSLU	2.1974	0.1524	-7.20	0.19
576	65	Shell-Thick	INVSLU	-0.3538	-0.2181	-21.31	-0.91
576	65	Shell-Thick	INVSLU	-0.4254	-0.2163	-21.11	-0.91
576	65	Shell-Thick	INVSLU	0.7687	0.0194	-21.11	-0.91
576	65	Shell-Thick	INVSLU	0.8891	0.1249	-21.31	-0.91
577	66	Shell-Thick	INVSLE	1.4281	0.1442	-5.81	-0.25
577	66	Shell-Thick	INVSLE	1.2856	0.0873	-5.83	-0.25
577	66	Shell-Thick	INVSLE	2.8994	0.3186	-5.83	-0.31
577	66	Shell-Thick	INVSLE	3.0993	0.3371	-5.81	-0.31
577	66	Shell-Thick	INVSLE	0.6364	0.0990	-13.98	-0.67
577	66	Shell-Thick	INVSLE	0.5397	0.0052	-13.91	-0.67
577	66	Shell-Thick	INVSLE	1.2178	0.0996	-13.91	-0.65
577	66	Shell-Thick	INVSLE	1.3287	0.1839	-13.98	-0.65
577	66	Shell-Thick	INVSLU	2.3463	0.2014	-7.84	0.24
577	66	Shell-Thick	INVSLU	2.1507	0.1824	-7.87	0.24
577	66	Shell-Thick	INVSLU	4.8494	0.5725	-7.87	8.256E-02
577	66	Shell-Thick	INVSLU	5.1524	0.5147	-7.84	8.256E-02
577	66	Shell-Thick	INVSLU	0.8591	0.1337	-23.46	-0.91
577	66	Shell-Thick	INVSLU	0.7286	0.0070	-23.28	-0.91
577	66	Shell-Thick	INVSLU	1.6441	0.1345	-23.28	-0.88
577	66	Shell-Thick	INVSLU	1.7938	0.2483	-23.46	-0.88
578	67	Shell-Thick	INVSLE	3.2836	0.3855	-6.28	-0.30
578	67	Shell-Thick	INVSLE	2.9701	0.3212	-6.32	-0.30
578	67	Shell-Thick	INVSLE	4.7350	0.6497	-6.32	-0.36
578	67	Shell-Thick	INVSLE	5.1089	0.6734	-6.28	-0.36
578	67	Shell-Thick	INVSLE	1.3434	0.1860	-15.28	-0.65
578	67	Shell-Thick	INVSLE	1.1922	0.0954	-15.21	-0.65
578	67	Shell-Thick	INVSLE	1.9267	0.2230	-15.21	-0.62
578	67	Shell-Thick	INVSLE	2.0923	0.3040	-15.28	-0.62
578	67	Shell-Thick	INVSLU	5.5334	0.6168	-8.48	0.11
578	67	Shell-Thick	INVSLU	5.0317	0.5831	-8.53	0.11
578	67	Shell-Thick	INVSLU	7.9915	1.1444	-8.53	-4.760E-02
578	67	Shell-Thick	INVSLU	8.6071	1.1018	-8.48	-4.760E-02
578	67	Shell-Thick	INVSLU	1.8136	0.2511	-25.71	-0.88
578	67	Shell-Thick	INVSLU	1.6095	0.1288	-25.52	-0.88
578	67	Shell-Thick	INVSLU	2.6010	0.3010	-25.52	-0.84
578	67	Shell-Thick	INVSLU	2.8246	0.4103	-25.71	-0.84
579	68	Shell-Thick	INVSLE	5.3300	0.7426	-6.72	-0.33
579	68	Shell-Thick	INVSLE	5.0031	0.6783	-6.79	-0.33
579	68	Shell-Thick	INVSLE	6.9247	0.9862	-6.79	-0.35
579	68	Shell-Thick	INVSLE	7.3074	1.0130	-6.72	-0.35
579	68	Shell-Thick	INVSLE	2.1068	0.3099	-16.57	-0.62
579	68	Shell-Thick	INVSLE	1.9621	0.2270	-16.54	-0.62
579	68	Shell-Thick	INVSLE	2.7522	0.3482	-16.54	-0.56
579	68	Shell-Thick	INVSLE	2.9086	0.4233	-16.57	-0.56
579	68	Shell-Thick	INVSLU	9.0676	1.2443	-9.08	9.627E-03
579	68	Shell-Thick	INVSLU	8.5296	1.2017	-9.17	9.627E-03
579	68	Shell-Thick	INVSLU	11.7632	1.7261	-9.17	-0.11
579	68	Shell-Thick	INVSLU	12.4084	1.6969	-9.08	-0.11
579	68	Shell-Thick	INVSLU	2.8442	0.4184	-27.98	-0.83
579	68	Shell-Thick	INVSLU	2.6488	0.3065	-27.84	-0.83
579	68	Shell-Thick	INVSLU	3.7155	0.4701	-27.84	-0.75
579	68	Shell-Thick	INVSLU	3.9266	0.5714	-27.98	-0.75
580	69	Shell-Thick	INVSLE	16.8357	3.2683	21.06	-9.116E-03
580	69	Shell-Thick	INVSLE	15.8673	3.2723	21.27	-9.116E-03
580	69	Shell-Thick	INVSLE	13.4195	2.6936	21.27	-0.28
580	69	Shell-Thick	INVSLE	14.2986	2.7496	21.06	-0.28
580	69	Shell-Thick	INVSLE	6.2921	1.2499	8.15	-0.10
580	69	Shell-Thick	INVSLE	6.1129	1.2311	8.53	-0.10
580	69	Shell-Thick	INVSLE	5.1370	1.0086	8.53	-0.34
580	69	Shell-Thick	INVSLE	5.3032	1.0364	8.15	-0.34
580	69	Shell-Thick	INVSLU	29.0623	5.6090	36.03	-1.231E-02
580	69	Shell-Thick	INVSLU	27.1787	5.6392	36.04	-1.231E-02
580	69	Shell-Thick	INVSLU	23.0240	4.6474	36.04	-0.22
580	69	Shell-Thick	INVSLU	24.7298	4.7364	36.03	-0.22
580	69	Shell-Thick	INVSLU	8.4944	1.6874	11.01	-0.22
580	69	Shell-Thick	INVSLU	8.2524	1.6620	11.51	-0.22
580	69	Shell-Thick	INVSLU	6.9349	1.3616	11.51	-0.46
580	69	Shell-Thick	INVSLU	7.1594	1.3991	11.01	-0.46
581	70	Shell-Thick	INVSLE	13.5128	2.5850	19.72	-0.30
581	70	Shell-Thick	INVSLE	12.7570	2.5686	19.83	-0.30
581	70	Shell-Thick	INVSLE	10.4724	2.2030	19.83	-0.39
581	70	Shell-Thick	INVSLE	11.1391	2.2791	19.72	-0.39

581	70	Shell-Thick	INVSLE	5.1324	1.0143	7.80	-0.33
581	70	Shell-Thick	INVSLE	4.9546	0.9601	8.07	-0.33
581	70	Shell-Thick	INVSLE	4.0280	0.8009	8.07	-0.56
581	70	Shell-Thick	INVSLE	4.1897	0.8661	7.80	-0.56
581	70	Shell-Thick	INVSLU	23.2310	4.4064	33.54	-0.26
581	70	Shell-Thick	INVSLU	21.8049	4.4338	33.47	-0.26
581	70	Shell-Thick	INVSLU	17.9454	3.8288	33.47	-0.20
581	70	Shell-Thick	INVSLU	19.1978	3.9177	33.54	-0.20
581	70	Shell-Thick	INVSLU	6.9288	1.3693	10.53	-0.44
581	70	Shell-Thick	INVSLU	6.6887	1.2961	10.90	-0.44
581	70	Shell-Thick	INVSLU	5.4378	1.0812	10.90	-0.76
581	70	Shell-Thick	INVSLU	5.6561	1.1692	10.53	-0.76
582	71	Shell-Thick	INVSLE	10.3562	2.1314	18.40	-0.39
582	71	Shell-Thick	INVSLE	10.0018	2.1000	18.43	-0.39
582	71	Shell-Thick	INVSLE	7.8661	1.5391	18.43	-0.41
582	71	Shell-Thick	INVSLE	8.1541	1.6149	18.40	-0.41
582	71	Shell-Thick	INVSLE	4.0229	0.8465	7.41	-0.55
582	71	Shell-Thick	INVSLE	3.9206	0.7656	7.59	-0.55
582	71	Shell-Thick	INVSLE	3.0424	0.5390	7.59	-0.71
582	71	Shell-Thick	INVSLE	3.1338	0.6274	7.41	-0.71
582	71	Shell-Thick	INVSLU	17.7005	3.6213	31.15	-0.20
582	71	Shell-Thick	INVSLU	17.0538	3.6475	30.99	-0.20
582	71	Shell-Thick	INVSLU	13.4597	2.6987	30.99	-6.029E-02
582	71	Shell-Thick	INVSLU	13.9757	2.7600	31.15	-6.029E-02
582	71	Shell-Thick	INVSLU	5.4309	1.1428	10.00	-0.74
582	71	Shell-Thick	INVSLU	5.2928	1.0335	10.25	-0.74
582	71	Shell-Thick	INVSLU	4.1073	0.7277	10.25	-0.96
582	71	Shell-Thick	INVSLU	4.2307	0.8470	10.00	-0.96
583	72	Shell-Thick	INVSLE	7.9337	1.5274	17.09	-0.46
583	72	Shell-Thick	INVSLE	7.4204	1.4933	17.03	-0.46
583	72	Shell-Thick	INVSLE	5.4459	0.9806	17.03	-0.40
583	72	Shell-Thick	INVSLE	5.8894	1.0616	17.09	-0.40
583	72	Shell-Thick	INVSLE	3.1411	0.6234	6.98	-0.72
583	72	Shell-Thick	INVSLE	2.9470	0.5254	7.09	-0.72
583	72	Shell-Thick	INVSLE	2.1250	0.3215	7.09	-0.81
583	72	Shell-Thick	INVSLE	2.3051	0.4290	6.98	-0.81
583	72	Shell-Thick	INVSLU	13.4913	2.5758	28.82	-0.16
583	72	Shell-Thick	INVSLU	12.6078	2.6157	28.55	-0.16
583	72	Shell-Thick	INVSLU	9.2968	1.7451	28.55	8.045E-02
583	72	Shell-Thick	INVSLU	10.0458	1.7952	28.82	8.045E-02
583	72	Shell-Thick	INVSLU	4.2405	0.8416	9.43	-0.97
583	72	Shell-Thick	INVSLU	3.9784	0.7093	9.58	-0.97
583	72	Shell-Thick	INVSLU	2.8688	0.4340	9.58	-1.10
583	72	Shell-Thick	INVSLU	3.1119	0.5791	9.43	-1.10
584	73	Shell-Thick	INVSLE	5.6231	0.9960	15.75	-0.41
584	73	Shell-Thick	INVSLE	5.3105	0.9659	15.67	-0.41
584	73	Shell-Thick	INVSLE	3.4910	0.5527	15.67	-0.34
584	73	Shell-Thick	INVSLE	3.7424	0.6238	15.75	-0.34
584	73	Shell-Thick	INVSLE	2.2775	0.4276	6.51	-0.81
584	73	Shell-Thick	INVSLE	2.1335	0.3190	6.58	-0.81
584	73	Shell-Thick	INVSLE	1.3684	0.1511	6.58	-0.87
584	73	Shell-Thick	INVSLE	1.4999	0.2682	6.51	-0.87
584	73	Shell-Thick	INVSLU	9.5027	1.6552	26.46	4.217E-02
584	73	Shell-Thick	INVSLU	8.9946	1.7160	26.20	4.217E-02
584	73	Shell-Thick	INVSLU	5.9524	1.0183	26.20	0.28
584	73	Shell-Thick	INVSLU	6.3428	1.0362	26.46	0.28
584	73	Shell-Thick	INVSLU	3.0746	0.5773	8.79	-1.09
584	73	Shell-Thick	INVSLU	2.8802	0.4306	8.89	-1.09
584	73	Shell-Thick	INVSLU	1.8474	0.2040	8.89	-1.17
584	73	Shell-Thick	INVSLU	2.0248	0.3620	8.79	-1.17
585	74	Shell-Thick	INVSLE	3.6617	0.5804	14.45	-0.37
585	74	Shell-Thick	INVSLE	3.3821	0.5581	14.33	-0.37
585	74	Shell-Thick	INVSLE	1.7181	0.1618	14.33	-0.27
585	74	Shell-Thick	INVSLE	1.9366	0.2250	14.45	-0.27
585	74	Shell-Thick	INVSLE	1.5256	0.2710	6.03	-0.87
585	74	Shell-Thick	INVSLE	1.3823	0.1562	6.07	-0.87
585	74	Shell-Thick	INVSLE	0.6765	-0.0053	6.07	-0.90
585	74	Shell-Thick	INVSLE	0.8061	0.1187	6.03	-0.90
585	74	Shell-Thick	INVSLU	6.1388	0.9392	24.20	0.21
585	74	Shell-Thick	INVSLU	5.7012	1.0243	23.91	0.21
585	74	Shell-Thick	INVSLU	2.9260	0.3557	23.91	0.47
585	74	Shell-Thick	INVSLU	3.2476	0.3482	24.20	0.47
585	74	Shell-Thick	INVSLU	2.0596	0.3658	8.15	-1.18
585	74	Shell-Thick	INVSLU	1.8661	0.2109	8.19	-1.18
585	74	Shell-Thick	INVSLU	0.9133	-0.0072	8.19	-1.22
585	74	Shell-Thick	INVSLU	1.0883	0.1602	8.15	-1.22
586	75	Shell-Thick	INVSLE	1.8920	0.1980	13.16	-0.29
586	75	Shell-Thick	INVSLE	1.7477	0.1858	13.03	-0.29

586	75	Shell-Thick	INVSLE	0.2331	-0.1331	13.03	-0.17	
586	75	Shell-Thick	INVSLE	0.3217	-0.0066	13.16	-0.17	
586	75	Shell-Thick	INVSLE	0.8373	0.1247	5.54	-0.90	
586	75	Shell-Thick	INVSLE	0.7360	0.0068	5.55	-0.90	
586	75	Shell-Thick	INVSLE	0.0891	-0.1472	5.55	-0.91	
586	75	Shell-Thick	INVSLE	0.1775	-0.0977	5.54	-0.91	
586	75	Shell-Thick	INVSLU	3.1152	0.2831	22.00	0.43	
586	75	Shell-Thick	INVSLU	2.9208	0.3933	21.70	0.43	
586	75	Shell-Thick	INVSLU	0.4000	-0.1636	21.70	0.69	
586	75	Shell-Thick	INVSLU	0.4889	-0.0089	22.00	0.69	
586	75	Shell-Thick	INVSLU	1.1303	0.1683	7.48	-1.22	
586	75	Shell-Thick	INVSLU	0.9936	0.0092	7.50	-1.22	
586	75	Shell-Thick	INVSLU	0.1203	-0.2009	7.50	-1.23	
586	75	Shell-Thick	INVSLU	0.2396	-0.2033	7.48	-1.23	
587	76	Shell-Thick	INVSLE	0.3709	0.0022	11.92	-0.20	
587	76	Shell-Thick	INVSLE	0.2938	-0.1117	11.78	-0.20	
587	76	Shell-Thick	INVSLE	-0.4303	-0.2519	11.78	-7.587E-02	
587	76	Shell-Thick	INVSLE	-0.3641	-0.1246	11.92	-7.587E-02	
587	76	Shell-Thick	INVSLE	0.2368	-0.1112	5.05	-0.92	
587	76	Shell-Thick	INVSLE	0.1577	-0.1164	5.04	-0.92	
587	76	Shell-Thick	INVSLE	-1.0746	-0.4320	5.04	-0.91	
587	76	Shell-Thick	INVSLE	-1.0511	-0.3955	5.05	-0.91	
587	76	Shell-Thick	INVSLU	0.5264	0.0030	19.88	0.63	
587	76	Shell-Thick	INVSLU	0.4516	-0.1064	19.58	0.63	
587	76	Shell-Thick	INVSLU	-0.5809	-0.3400	19.58	0.89	
587	76	Shell-Thick	INVSLU	-0.4915	-0.1682	19.88	0.89	
587	76	Shell-Thick	INVSLU	0.3197	-0.2427	6.82	-1.24	
587	76	Shell-Thick	INVSLU	0.2128	-0.1571	6.81	-1.24	
587	76	Shell-Thick	INVSLU	-1.8217	-0.6408	6.81	-1.23	
587	76	Shell-Thick	INVSLU	-1.8477	-0.7097	6.82	-1.23	
588	77	Shell-Thick	INVSLE	-0.2966	-0.1135	10.70	-9.813E-02	
588	77	Shell-Thick	INVSLE	-0.3395	-0.2313	10.56	-9.813E-02	
588	77	Shell-Thick	INVSLE	-0.8696	-0.3517	10.56	2.635E-02	
588	77	Shell-Thick	INVSLE	-0.8387	-0.2259	10.70	2.635E-02	
588	77	Shell-Thick	INVSLE	-0.9694	-0.3984	4.56	-0.91	
588	77	Shell-Thick	INVSLE	-0.9454	-0.3869	4.54	-0.91	
588	77	Shell-Thick	INVSLE	-2.1732	-0.6641	4.54	-0.90	
588	77	Shell-Thick	INVSLE	-2.2461	-0.6429	4.56	-0.90	
588	77	Shell-Thick	INVSLU	-0.4003	-0.1533	17.83	0.85	
588	77	Shell-Thick	INVSLU	-0.4584	-0.3122	17.54	0.85	
588	77	Shell-Thick	INVSLU	-1.1740	-0.4748	17.54	1.10	
588	77	Shell-Thick	INVSLU	-1.1322	-0.3050	17.83	1.10	
588	77	Shell-Thick	INVSLU	-1.7497	-0.7288	6.16	-1.23	
588	77	Shell-Thick	INVSLU	-1.6480	-0.5673	6.13	-1.23	
588	77	Shell-Thick	INVSLU	-3.6848	-1.0264	6.13	-1.21	
588	77	Shell-Thick	INVSLU	-3.8782	-1.1265	6.16	-1.21	
589	78	Shell-Thick	INVSLE	-0.7572	-0.2133	9.53	2.654E-03	
589	78	Shell-Thick	INVSLE	-0.7747	-0.3291	9.39	2.654E-03	
589	78	Shell-Thick	INVSLE	-1.2478	-0.4431	9.39	0.13	
589	78	Shell-Thick	INVSLE	-1.2419	-0.3196	9.53	0.13	
589	78	Shell-Thick	INVSLE	-2.1174	-0.6380	4.08	-0.90	
589	78	Shell-Thick	INVSLE	-2.0271	-0.6141	4.05	-0.90	
589	78	Shell-Thick	INVSLE	-3.1183	-0.8752	4.05	-0.88	
589	78	Shell-Thick	INVSLE	-3.2543	-0.8685	4.08	-0.88	
589	78	Shell-Thick	INVSLU	-1.0223	-0.2880	15.85	1.05	
589	78	Shell-Thick	INVSLU	-1.0459	-0.4442	15.58	1.05	
589	78	Shell-Thick	INVSLU	-1.6845	-0.5982	15.58	1.29	
589	78	Shell-Thick	INVSLU	-1.6766	-0.4314	15.85	1.29	
589	78	Shell-Thick	INVSLU	-3.6946	-1.1305	5.51	-1.22	
589	78	Shell-Thick	INVSLU	-3.4793	-0.9446	5.47	-1.22	
589	78	Shell-Thick	INVSLU	-5.2874	-1.3763	5.47	-1.18	
589	78	Shell-Thick	INVSLU	-5.5879	-1.5051	5.51	-1.18	
590	79	Shell-Thick	INVSLE	-1.1578	-0.3061	8.39	0.10	
590	79	Shell-Thick	INVSLE	-1.1452	-0.4193	8.26	0.10	
590	79	Shell-Thick	INVSLE	-1.5626	-0.5199	8.26	0.22	
590	79	Shell-Thick	INVSLE	-1.5857	-0.3997	8.39	0.22	
590	79	Shell-Thick	INVSLE	-3.1112	-0.8579	3.60	-0.88	
590	79	Shell-Thick	INVSLE	-2.9435	-0.8223	3.57	-0.88	
590	79	Shell-Thick	INVSLE	-3.9032	-1.0483	3.57	-0.85	
590	79	Shell-Thick	INVSLE	-4.1119	-1.0566	3.60	-0.85	
590	79	Shell-Thick	INVSLU	-1.5630	-0.4132	13.94	1.25	
590	79	Shell-Thick	INVSLU	-1.5460	-0.5660	13.69	1.25	
590	79	Shell-Thick	INVSLU	-2.1095	-0.7019	13.69	1.47	
590	79	Shell-Thick	INVSLU	-2.1407	-0.5396	13.94	1.47	
590	79	Shell-Thick	INVSLU	-5.3765	-1.4978	4.87	-1.19	
590	79	Shell-Thick	INVSLU	-5.0288	-1.2896	4.82	-1.19	
590	79	Shell-Thick	INVSLU	-6.6175	-1.6611	4.82	-1.15	
590	79	Shell-Thick	INVSLU	-7.0413	-1.8183	4.87	-1.15	

591	80 Shell-Thick	INVSLE	-1.4985	-0.3860	7.28	0.20
591	80 Shell-Thick	INVSLE	-1.4630	-0.4963	7.16	0.20
591	80 Shell-Thick	INVSLE	-1.8260	-0.5881	7.16	0.31
591	80 Shell-Thick	INVSLE	-1.8711	-0.4714	7.28	0.31
591	80 Shell-Thick	INVSLE	-3.9525	-1.0424	3.14	-0.86
591	80 Shell-Thick	INVSLE	-3.7289	-0.9958	3.11	-0.86
591	80 Shell-Thick	INVSLE	-4.5612	-1.2015	3.11	-0.83
591	80 Shell-Thick	INVSLE	-4.8216	-1.2235	3.14	-0.83
591	80 Shell-Thick	INVSLU	-2.0230	-0.5211	12.09	1.43
591	80 Shell-Thick	INVSLU	-1.9751	-0.6700	11.86	1.43
591	80 Shell-Thick	INVSLU	-2.4651	-0.7940	11.86	1.63
591	80 Shell-Thick	INVSLU	-2.5260	-0.6364	12.09	1.63
591	80 Shell-Thick	INVSLU	-6.7982	-1.8036	4.24	-1.16
591	80 Shell-Thick	INVSLU	-6.3565	-1.5750	4.19	-1.16
591	80 Shell-Thick	INVSLU	-7.7330	-1.9127	4.19	-1.12
591	80 Shell-Thick	INVSLU	-8.2430	-2.0957	4.24	-1.12
592	81 Shell-Thick	INVSLE	-1.7881	-0.4581	6.21	0.29
592	81 Shell-Thick	INVSLE	-1.7291	-0.5655	6.10	0.29
592	81 Shell-Thick	INVSLE	-2.0389	-0.6441	6.10	0.39
592	81 Shell-Thick	INVSLE	-2.1064	-0.5311	6.21	0.39
592	81 Shell-Thick	INVSLE	-4.6659	-1.2074	2.68	-0.83
592	81 Shell-Thick	INVSLE	-4.3844	-1.1510	2.65	-0.83
592	81 Shell-Thick	INVSLE	-5.0933	-1.3247	2.65	-0.81
592	81 Shell-Thick	INVSLE	-5.4067	-1.3599	2.68	-0.81
592	81 Shell-Thick	INVSLU	-2.4139	-0.6184	10.30	1.60
592	81 Shell-Thick	INVSLU	-2.3342	-0.7634	10.10	1.60
592	81 Shell-Thick	INVSLU	-2.7525	-0.8695	10.10	1.77
592	81 Shell-Thick	INVSLU	-2.8436	-0.7169	10.30	1.77
592	81 Shell-Thick	INVSLU	-8.0031	-2.0765	3.62	-1.13
592	81 Shell-Thick	INVSLU	-7.4636	-1.8301	3.58	-1.13
592	81 Shell-Thick	INVSLU	-8.6353	-2.1140	3.58	-1.09
592	81 Shell-Thick	INVSLU	-9.2338	-2.3209	3.62	-1.09
593	82 Shell-Thick	INVSLE	-2.0285	-0.5187	5.16	0.37
593	82 Shell-Thick	INVSLE	-1.9515	-0.6234	5.07	0.37
593	82 Shell-Thick	INVSLE	-2.2093	-0.6913	5.07	0.46
593	82 Shell-Thick	INVSLE	-2.2936	-0.5817	5.16	0.46
593	82 Shell-Thick	INVSLE	-5.2562	-1.3436	2.23	-0.81
593	82 Shell-Thick	INVSLE	-4.9322	-1.2787	2.21	-0.81
593	82 Shell-Thick	INVSLE	-5.5211	-1.4286	2.21	-0.78
593	82 Shell-Thick	INVSLE	-5.8723	-1.4753	2.23	-0.78
593	82 Shell-Thick	INVSLU	-2.7384	-0.7002	8.56	1.74
593	82 Shell-Thick	INVSLU	-2.6345	-0.8416	8.39	1.74
593	82 Shell-Thick	INVSLU	-2.9826	-0.9332	8.39	1.90
593	82 Shell-Thick	INVSLU	-3.0964	-0.7853	8.56	1.90
593	82 Shell-Thick	INVSLU	-8.9991	-2.3001	3.02	-1.09
593	82 Shell-Thick	INVSLU	-8.3887	-2.0386	2.98	-1.09
593	82 Shell-Thick	INVSLU	-9.3616	-2.2837	2.98	-1.06
593	82 Shell-Thick	INVSLU	-10.0223	-2.5115	3.02	-1.06
594	83 Shell-Thick	INVSLE	-2.2257	-0.5708	4.14	0.44
594	83 Shell-Thick	INVSLE	-2.1319	-0.6731	4.06	0.44
594	83 Shell-Thick	INVSLE	-2.3389	-0.7276	4.06	0.51
594	83 Shell-Thick	INVSLE	-2.4386	-0.6213	4.14	0.51
594	83 Shell-Thick	INVSLE	-5.7399	-1.4600	1.79	-0.79
594	83 Shell-Thick	INVSLE	-5.3753	-1.3883	1.77	-0.79
594	83 Shell-Thick	INVSLE	-5.8474	-1.5075	1.77	-0.77
594	83 Shell-Thick	INVSLE	-6.2340	-1.5644	1.79	-0.77
594	83 Shell-Thick	INVSLU	-3.0047	-0.7705	6.86	1.87
594	83 Shell-Thick	INVSLU	-2.8781	-0.9087	6.72	1.87
594	83 Shell-Thick	INVSLU	-3.1575	-0.9823	6.72	2.00
594	83 Shell-Thick	INVSLU	-3.2921	-0.8387	6.86	2.00
594	83 Shell-Thick	INVSLU	-9.8150	-2.4911	2.42	-1.06
594	83 Shell-Thick	INVSLU	-9.1364	-2.2176	2.39	-1.06
594	83 Shell-Thick	INVSLU	-9.9159	-2.4118	2.39	-1.03
594	83 Shell-Thick	INVSLU	-10.6352	-2.6582	2.42	-1.03
595	84 Shell-Thick	INVSLE	-2.3818	-0.6122	3.14	0.50
595	84 Shell-Thick	INVSLE	-2.2759	-0.7127	3.08	0.50
595	84 Shell-Thick	INVSLE	-2.4329	-0.7551	3.08	0.56
595	84 Shell-Thick	INVSLE	-2.5433	-0.6515	3.14	0.56
595	84 Shell-Thick	INVSLE	-6.1212	-1.5512	1.36	-0.77
595	84 Shell-Thick	INVSLE	-5.7284	-1.4744	1.34	-0.77
595	84 Shell-Thick	INVSLE	-6.0860	-1.5673	1.34	-0.75
595	84 Shell-Thick	INVSLE	-6.4958	-1.6328	1.36	-0.75
595	84 Shell-Thick	INVSLU	-3.2154	-0.8265	5.20	1.98
595	84 Shell-Thick	INVSLU	-3.0725	-0.9622	5.09	1.98
595	84 Shell-Thick	INVSLU	-3.2844	-1.0194	5.09	2.07
595	84 Shell-Thick	INVSLU	-3.4335	-0.8796	5.20	2.07
595	84 Shell-Thick	INVSLU	-10.4576	-2.6401	1.84	-1.04
595	84 Shell-Thick	INVSLU	-9.7320	-2.3576	1.81	-1.04

595	84	Shell-Thick	INVSLU	-10.3223	-2.5092	1.81	-1.01
595	84	Shell-Thick	INVSLU	-11.0792	-2.7707	1.84	-1.01
596	85	Shell-Thick	INVSLE	-2.5006	-0.6446	2.15	0.55
596	85	Shell-Thick	INVSLE	-2.3847	-0.7438	2.11	0.55
596	85	Shell-Thick	INVSLE	-2.4923	-0.7728	2.11	0.59
596	85	Shell-Thick	INVSLE	-2.6114	-0.6715	2.15	0.59
596	85	Shell-Thick	INVSLE	-6.4110	-1.6224	0.93	-0.75
596	85	Shell-Thick	INVSLE	-5.9936	-1.5422	0.92	-0.75
596	85	Shell-Thick	INVSLE	-6.2387	-1.6053	0.92	-0.74
596	85	Shell-Thick	INVSLE	-6.6677	-1.6777	0.93	-0.74
596	85	Shell-Thick	INVSLU	-3.3758	-0.8702	3.56	2.06
596	85	Shell-Thick	INVSLU	-3.2193	-1.0042	3.49	2.06
596	85	Shell-Thick	INVSLU	-3.3646	-1.0433	3.49	2.12
596	85	Shell-Thick	INVSLU	-3.5254	-0.9065	3.56	2.12
596	85	Shell-Thick	INVSLU	-10.9455	-2.7563	1.26	-1.02
596	85	Shell-Thick	INVSLU	-10.1785	-2.4681	1.24	-1.02
596	85	Shell-Thick	INVSLU	-10.5831	-2.5706	1.24	-1.00
596	85	Shell-Thick	INVSLU	-11.3715	-2.8445	1.26	-1.00
597	86	Shell-Thick	INVSLE	-2.5833	-0.6670	1.18	0.58
597	86	Shell-Thick	INVSLE	-2.4616	-0.7655	1.15	0.58
597	86	Shell-Thick	INVSLE	-2.5205	-0.7816	1.15	0.60
597	86	Shell-Thick	INVSLE	-2.6439	-0.6819	1.18	0.60
597	86	Shell-Thick	INVSLE	-6.6111	-1.6708	0.51	-0.74
597	86	Shell-Thick	INVSLE	-6.1800	-1.5891	0.50	-0.74
597	86	Shell-Thick	INVSLE	-6.3140	-1.6242	0.50	-0.73
597	86	Shell-Thick	INVSLE	-6.7515	-1.7016	0.51	-0.73
597	86	Shell-Thick	INVSLU	-3.4875	-0.9004	1.95	2.11
597	86	Shell-Thick	INVSLU	-3.3232	-1.0335	1.91	2.11
597	86	Shell-Thick	INVSLU	-3.4026	-1.0552	1.91	2.15
597	86	Shell-Thick	INVSLU	-3.5692	-0.9205	1.95	2.15
597	86	Shell-Thick	INVSLU	-11.2819	-2.8348	0.69	-1.00
597	86	Shell-Thick	INVSLU	-10.4920	-2.5442	0.68	-1.00
597	86	Shell-Thick	INVSLU	-10.7131	-2.6013	0.68	-0.99
597	86	Shell-Thick	INVSLU	-11.5147	-2.8841	0.69	-0.99
598	87	Shell-Thick	INVSLE	-2.6321	-0.6799	0.21	0.60
598	87	Shell-Thick	INVSLE	-2.5069	-0.7785	0.20	0.60
598	87	Shell-Thick	INVSLE	-2.5172	-0.7813	0.20	0.60
598	87	Shell-Thick	INVSLE	-2.6427	-0.6825	0.21	0.60
598	87	Shell-Thick	INVSLE	-6.7279	-1.6985	8.952E-02	-0.73
598	87	Shell-Thick	INVSLE	-6.2874	-1.6173	8.812E-02	-0.73
598	87	Shell-Thick	INVSLE	-6.3109	-1.6233	8.812E-02	-0.73
598	87	Shell-Thick	INVSLE	-6.7524	-1.7039	8.952E-02	-0.73
598	87	Shell-Thick	INVSLU	-3.5534	-0.9179	0.34	2.15
598	87	Shell-Thick	INVSLU	-3.3843	-1.0510	0.33	2.15
598	87	Shell-Thick	INVSLU	-3.3983	-1.0547	0.33	2.15
598	87	Shell-Thick	INVSLU	-3.5677	-0.9214	0.34	2.15
598	87	Shell-Thick	INVSLU	-11.4776	-2.8797	0.12	-0.99
598	87	Shell-Thick	INVSLU	-10.6714	-2.5900	0.12	-0.99
598	87	Shell-Thick	INVSLU	-10.7102	-2.5998	0.12	-0.99
598	87	Shell-Thick	INVSLU	-11.5182	-2.8883	0.12	-0.99
599	88	Shell-Thick	INVSLE	-2.6468	-0.6832	-0.33	0.60
599	88	Shell-Thick	INVSLE	-2.5223	-0.7824	-0.33	0.60
599	88	Shell-Thick	INVSLE	-2.4842	-0.7719	-0.33	0.59
599	88	Shell-Thick	INVSLE	-2.6074	-0.6734	-0.33	0.59
599	88	Shell-Thick	INVSLE	-6.7603	-1.7048	-0.76	-0.73
599	88	Shell-Thick	INVSLE	-6.3208	-1.6260	-0.75	-0.73
599	88	Shell-Thick	INVSLE	-6.2341	-1.6029	-0.75	-0.74
599	88	Shell-Thick	INVSLE	-6.6691	-1.6847	-0.76	-0.74
599	88	Shell-Thick	INVSLU	-3.5732	-0.9223	-0.45	2.15
599	88	Shell-Thick	INVSLU	-3.4051	-1.0563	-0.44	2.15
599	88	Shell-Thick	INVSLU	-3.3537	-1.0420	-0.44	2.13
599	88	Shell-Thick	INVSLU	-3.5201	-0.9091	-0.45	2.13
599	88	Shell-Thick	INVSLU	-11.5304	-2.8896	-1.26	-0.99
599	88	Shell-Thick	INVSLU	-10.7256	-2.6041	-1.24	-0.99
599	88	Shell-Thick	INVSLU	-10.5825	-2.5665	-1.24	-1.00
599	88	Shell-Thick	INVSLU	-11.3791	-2.8574	-1.26	-1.00
600	89	Shell-Thick	INVSLE	-2.6281	-0.6766	-0.75	0.59
600	89	Shell-Thick	INVSLE	-2.5066	-0.7772	-0.74	0.59
600	89	Shell-Thick	INVSLE	-2.4198	-0.7538	-0.74	0.56
600	89	Shell-Thick	INVSLE	-2.5387	-0.6549	-0.75	0.56
600	89	Shell-Thick	INVSLE	-6.7105	-1.6895	-1.74	-0.74
600	89	Shell-Thick	INVSLE	-6.2764	-1.6148	-1.70	-0.74
600	89	Shell-Thick	INVSLE	-6.0789	-1.5638	-1.70	-0.75
600	89	Shell-Thick	INVSLE	-6.5032	-1.6450	-1.74	-0.75
600	89	Shell-Thick	INVSLU	-3.5480	-0.9135	-1.02	2.14
600	89	Shell-Thick	INVSLU	-3.3839	-1.0493	-1.00	2.14
600	89	Shell-Thick	INVSLU	-3.2668	-1.0176	-1.00	2.08
600	89	Shell-Thick	INVSLU	-3.4272	-0.8842	-1.02	2.08

600	89 Shell-Thick	INVSLU	-11.4446	-2.8640	-2.87	-0.99
600	89 Shell-Thick	INVSLU	-10.6480	-2.5861	-2.81	-0.99
600	89 Shell-Thick	INVSLU	-10.3220	-2.5031	-2.81	-1.01
600	89 Shell-Thick	INVSLU	-11.1006	-2.7930	-2.87	-1.01
601	90 Shell-Thick	INVSLE	-2.5743	-0.6606	-1.18	0.57
601	90 Shell-Thick	INVSLE	-2.4602	-0.7632	-1.16	0.57
601	90 Shell-Thick	INVSLE	-2.3244	-0.7262	-1.16	0.52
601	90 Shell-Thick	INVSLE	-2.4343	-0.6264	-1.18	0.52
601	90 Shell-Thick	INVSLE	-6.5738	-1.6534	-2.72	-0.74
601	90 Shell-Thick	INVSLE	-6.1560	-1.5849	-2.66	-0.74
601	90 Shell-Thick	INVSLE	-5.8466	-1.5038	-2.66	-0.76
601	90 Shell-Thick	INVSLE	-6.2493	-1.5824	-2.72	-0.76
601	90 Shell-Thick	INVSLU	-3.4753	-0.8919	-1.59	2.10
601	90 Shell-Thick	INVSLU	-3.3212	-1.0304	-1.57	2.10
601	90 Shell-Thick	INVSLU	-3.1379	-0.9804	-1.57	2.01
601	90 Shell-Thick	INVSLU	-3.2863	-0.8456	-1.59	2.01
601	90 Shell-Thick	INVSLU	-11.2118	-2.8046	-4.50	-1.01
601	90 Shell-Thick	INVSLU	-10.4418	-2.5376	-4.41	-1.01
601	90 Shell-Thick	INVSLU	-9.9312	-2.4054	-4.41	-1.03
601	90 Shell-Thick	INVSLU	-10.6733	-2.6911	-4.50	-1.03
602	91 Shell-Thick	INVSLE	-2.4848	-0.6343	-1.61	0.53
602	91 Shell-Thick	INVSLE	-2.3800	-0.7395	-1.59	0.53
602	91 Shell-Thick	INVSLE	-2.1945	-0.6903	-1.59	0.47
602	91 Shell-Thick	INVSLE	-2.2937	-0.5888	-1.61	0.47
602	91 Shell-Thick	INVSLE	-6.3493	-1.5940	-3.71	-0.76
602	91 Shell-Thick	INVSLE	-5.9515	-1.5332	-3.64	-0.76
602	91 Shell-Thick	INVSLE	-5.5286	-1.4258	-3.64	-0.78
602	91 Shell-Thick	INVSLE	-5.9062	-1.5001	-3.71	-0.78
602	91 Shell-Thick	INVSLU	-3.3544	-0.8564	-2.17	2.03
602	91 Shell-Thick	INVSLU	-3.2130	-0.9983	-2.14	2.03
602	91 Shell-Thick	INVSLU	-2.9626	-0.9319	-2.14	1.92
602	91 Shell-Thick	INVSLU	-3.0966	-0.7949	-2.17	1.92
602	91 Shell-Thick	INVSLU	-10.8308	-2.7068	-6.15	-1.02
602	91 Shell-Thick	INVSLU	-10.0932	-2.4536	-6.02	-1.02
602	91 Shell-Thick	INVSLU	-9.3949	-2.2788	-6.02	-1.05
602	91 Shell-Thick	INVSLU	-10.0953	-2.5569	-6.15	-1.05
603	92 Shell-Thick	INVSLE	-2.3560	-0.5988	-2.05	0.48
603	92 Shell-Thick	INVSLE	-2.2654	-0.7070	-2.02	0.48
603	92 Shell-Thick	INVSLE	-2.0294	-0.6442	-2.02	0.41
603	92 Shell-Thick	INVSLE	-2.1131	-0.5407	-2.05	0.41
603	92 Shell-Thick	INVSLE	-6.0278	-1.5141	-4.73	-0.78
603	92 Shell-Thick	INVSLE	-5.6623	-1.4629	-4.64	-0.78
603	92 Shell-Thick	INVSLE	-5.1237	-1.3246	-4.64	-0.80
603	92 Shell-Thick	INVSLE	-5.4637	-1.3928	-4.73	-0.80
603	92 Shell-Thick	INVSLU	-3.1806	-0.8084	-2.76	1.94
603	92 Shell-Thick	INVSLU	-3.0583	-0.9544	-2.73	1.94
603	92 Shell-Thick	INVSLU	-2.7398	-0.8697	-2.73	1.80
603	92 Shell-Thick	INVSLU	-2.8527	-0.7299	-2.76	1.80
603	92 Shell-Thick	INVSLU	-10.2857	-2.5755	-7.83	-1.05
603	92 Shell-Thick	INVSLU	-9.6015	-2.3395	-7.67	-1.05
603	92 Shell-Thick	INVSLU	-8.7119	-2.1136	-7.67	-1.08
603	92 Shell-Thick	INVSLU	-9.3491	-2.3810	-7.83	-1.08
604	93 Shell-Thick	INVSLE	-2.1864	-0.5522	-2.49	0.42
604	93 Shell-Thick	INVSLE	-2.1113	-0.6637	-2.46	0.42
604	93 Shell-Thick	INVSLE	-1.8238	-0.5901	-2.46	0.33
604	93 Shell-Thick	INVSLE	-1.8908	-0.4840	-2.49	0.33
604	93 Shell-Thick	INVSLE	-5.6059	-1.4082	-5.76	-0.80
604	93 Shell-Thick	INVSLE	-5.2749	-1.3679	-5.66	-0.80
604	93 Shell-Thick	INVSLE	-4.6177	-1.2058	-5.66	-0.82
604	93 Shell-Thick	INVSLE	-4.9185	-1.2662	-5.76	-0.82
604	93 Shell-Thick	INVSLU	-2.9516	-0.7455	-3.36	1.83
604	93 Shell-Thick	INVSLU	-2.8503	-0.8960	-3.32	1.83
604	93 Shell-Thick	INVSLU	-2.4622	-0.7967	-3.32	1.66
604	93 Shell-Thick	INVSLU	-2.5526	-0.6534	-3.36	1.66
604	93 Shell-Thick	INVSLU	-9.5712	-2.4007	-9.55	-1.07
604	93 Shell-Thick	INVSLU	-8.9435	-2.1845	-9.36	-1.07
604	93 Shell-Thick	INVSLU	-7.8574	-1.9198	-9.36	-1.11
604	93 Shell-Thick	INVSLU	-8.4293	-2.1734	-9.55	-1.11
605	94 Shell-Thick	INVSLE	-1.9704	-0.4967	-2.94	0.35
605	94 Shell-Thick	INVSLE	-1.9166	-0.6119	-2.91	0.35
605	94 Shell-Thick	INVSLE	-1.5765	-0.5248	-2.91	0.24
605	94 Shell-Thick	INVSLE	-1.6210	-0.4158	-2.94	0.24
605	94 Shell-Thick	INVSLE	-5.0686	-1.2819	-6.82	-0.82
605	94 Shell-Thick	INVSLE	-4.7876	-1.2542	-6.70	-0.82
605	94 Shell-Thick	INVSLE	-4.0086	-1.0597	-6.70	-0.85
605	94 Shell-Thick	INVSLE	-4.2544	-1.1110	-6.82	-0.85
605	94 Shell-Thick	INVSLU	-2.6601	-0.6705	-3.97	1.70
605	94 Shell-Thick	INVSLU	-2.5873	-0.8260	-3.93	1.70

605	94 Shell-Thick	INVSLU	-2.1282	-0.7085	-3.93	1.51	
605	94 Shell-Thick	INVSLU	-2.1884	-0.5614	-3.97	1.51	
605	94 Shell-Thick	INVSLU	-8.6614	-2.1924	-11.32	-1.11	
605	94 Shell-Thick	INVSLU	-8.1170	-1.9991	-11.10	-1.11	
605	94 Shell-Thick	INVSLU	-6.8290	-1.6801	-11.10	-1.14	
605	94 Shell-Thick	INVSLU	-7.3081	-1.9171	-11.32	-1.14	
606	95 Shell-Thick	INVSLE	-1.7063	-0.4291	-3.40	0.26	
606	95 Shell-Thick	INVSLE	-1.6732	-0.5479	-3.37	0.26	
606	95 Shell-Thick	INVSLE	-1.2792	-0.4518	-3.37	0.15	
606	95 Shell-Thick	INVSLE	-1.3020	-0.3399	-3.40	0.15	
606	95 Shell-Thick	INVSLE	-4.4121	-1.1254	-7.91	-0.84	
606	95 Shell-Thick	INVSLE	-4.1792	-1.1110	-7.78	-0.84	
606	95 Shell-Thick	INVSLE	-3.2744	-0.8964	-7.78	-0.87	
606	95 Shell-Thick	INVSLE	-3.4680	-0.9371	-7.91	-0.87	
606	95 Shell-Thick	INVSLU	-2.3035	-0.5793	-4.60	1.54	
606	95 Shell-Thick	INVSLU	-2.2588	-0.7396	-4.55	1.54	
606	95 Shell-Thick	INVSLU	-1.7269	-0.6100	-4.55	1.33	
606	95 Shell-Thick	INVSLU	-1.7578	-0.4589	-4.60	1.33	
606	95 Shell-Thick	INVSLU	-7.5498	-1.9327	-13.14	-1.14	
606	95 Shell-Thick	INVSLU	-7.0852	-1.7640	-12.90	-1.14	
606	95 Shell-Thick	INVSLU	-5.5882	-1.4120	-12.90	-1.18	
606	95 Shell-Thick	INVSLU	-5.9796	-1.6296	-13.14	-1.18	
607	96 Shell-Thick	INVSLE	-1.3856	-0.3533	-3.88	0.17	
607	96 Shell-Thick	INVSLE	-1.3807	-0.4755	-3.85	0.17	
607	96 Shell-Thick	INVSLE	-0.9316	-0.3658	-3.85	4.742E-02	
607	96 Shell-Thick	INVSLE	-0.9251	-0.2512	-3.88	4.742E-02	
607	96 Shell-Thick	INVSLE	-3.6130	-0.9487	-9.04	-0.87	
607	96 Shell-Thick	INVSLE	-3.4500	-0.9490	-8.90	-0.87	
607	96 Shell-Thick	INVSLE	-2.4158	-0.6990	-8.90	-0.89	
607	96 Shell-Thick	INVSLE	-2.5344	-0.7283	-9.04	-0.89	
607	96 Shell-Thick	INVSLU	-1.8706	-0.4769	-5.23	1.37	
607	96 Shell-Thick	INVSLU	-1.8639	-0.6419	-5.19	1.37	
607	96 Shell-Thick	INVSLU	-1.2577	-0.4938	-5.19	1.14	
607	96 Shell-Thick	INVSLU	-1.2490	-0.3391	-5.23	1.14	
607	96 Shell-Thick	INVSLU	-6.1959	-1.6391	-15.03	-1.17	
607	96 Shell-Thick	INVSLU	-5.8497	-1.4981	-14.76	-1.17	
607	96 Shell-Thick	INVSLU	-4.1368	-1.0854	-14.76	-1.21	
607	96 Shell-Thick	INVSLU	-4.4005	-1.2816	-15.03	-1.21	
608	97 Shell-Thick	INVSLE	-1.0080	-0.2639	-4.35	7.081E-02	
608	97 Shell-Thick	INVSLE	-1.0270	-0.3888	-4.33	7.081E-02	
608	97 Shell-Thick	INVSLE	-0.5214	-0.2728	-4.33	-5.310E-02	
608	97 Shell-Thick	INVSLE	-0.4905	-0.1558	-4.35	-5.310E-02	
608	97 Shell-Thick	INVSLE	-2.6705	-0.7350	-10.20	-0.89	
608	97 Shell-Thick	INVSLE	-2.5664	-0.7497	-10.06	-0.89	
608	97 Shell-Thick	INVSLE	-1.3976	-0.4845	-10.06	-0.91	
608	97 Shell-Thick	INVSLE	-1.4541	-0.5016	-10.20	-0.91	
608	97 Shell-Thick	INVSLU	-1.3608	-0.3563	-5.88	1.18	
608	97 Shell-Thick	INVSLU	-1.3865	-0.5248	-5.85	1.18	
608	97 Shell-Thick	INVSLU	-0.7039	-0.3682	-5.85	0.94	
608	97 Shell-Thick	INVSLU	-0.6622	-0.2104	-5.88	0.94	
608	97 Shell-Thick	INVSLU	-4.5984	-1.2812	-16.97	-1.20	
608	97 Shell-Thick	INVSLU	-4.3515	-1.1682	-16.69	-1.20	
608	97 Shell-Thick	INVSLU	-2.4137	-0.7301	-16.69	-1.23	
608	97 Shell-Thick	INVSLU	-2.5715	-0.9026	-16.97	-1.23	
609	98 Shell-Thick	INVSLE	-0.5607	-0.1672	-4.84	-3.124E-02	
609	98 Shell-Thick	INVSLE	-0.6152	-0.2942	-4.83	-3.124E-02	
609	98 Shell-Thick	INVSLE	-0.0522	-0.1629	-4.83	-0.16	
609	98 Shell-Thick	INVSLE	0.0152	-0.0446	-4.84	-0.16	
609	98 Shell-Thick	INVSLE	-1.5471	-0.5013	-11.39	-0.91	
609	98 Shell-Thick	INVSLE	-1.5381	-0.5315	-11.25	-0.91	
609	98 Shell-Thick	INVSLE	-0.2308	-0.2233	-11.25	-0.92	
609	98 Shell-Thick	INVSLE	-0.1873	-0.2283	-11.39	-0.92	
609	98 Shell-Thick	INVSLU	-0.7570	-0.2258	-6.54	0.98	
609	98 Shell-Thick	INVSLU	-0.8305	-0.3971	-6.52	0.98	
609	98 Shell-Thick	INVSLU	-0.0705	-0.2199	-6.52	0.73	
609	98 Shell-Thick	INVSLU	0.0205	-0.0602	-6.54	0.73	
609	98 Shell-Thick	INVSLU	-2.6909	-0.8887	-18.99	-1.22	
609	98 Shell-Thick	INVSLU	-2.6083	-0.8067	-18.70	-1.22	
609	98 Shell-Thick	INVSLU	-0.4379	-0.3106	-18.70	-1.24	
609	98 Shell-Thick	INVSLU	-0.4220	-0.4412	-18.99	-1.24	
610	99 Shell-Thick	INVSLE	-0.0493	-0.0540	-5.33	-0.13	
610	99 Shell-Thick	INVSLE	-0.1251	-0.1810	-5.33	-0.13	
610	99 Shell-Thick	INVSLE	1.1450	0.0561	-5.33	-0.25	
610	99 Shell-Thick	INVSLE	1.2503	0.0722	-5.33	-0.25	
610	99 Shell-Thick	INVSLE	-0.2558	-0.2184	-12.62	-0.91	
610	99 Shell-Thick	INVSLE	-0.3065	-0.2620	-12.49	-0.91	
610	99 Shell-Thick	INVSLE	0.4966	-0.0462	-12.49	-0.91	
610	99 Shell-Thick	INVSLE	0.5852	0.0632	-12.62	-0.91	

610	99	Shell-Thick	INVSLU	-0.0665	-0.0729	-7.20	0.78	
610	99	Shell-Thick	INVSLU	-0.1689	-0.2443	-7.20	0.78	
610	99	Shell-Thick	INVSLU	1.8969	0.1747	-7.20	0.52	
610	99	Shell-Thick	INVSLU	2.0215	0.0975	-7.20	0.52	
610	99	Shell-Thick	INVSLU	-0.4953	-0.4091	-21.08	-1.23	
610	99	Shell-Thick	INVSLU	-0.5169	-0.3659	-20.79	-1.23	
610	99	Shell-Thick	INVSLU	0.6704	-0.0623	-20.79	-1.23	
610	99	Shell-Thick	INVSLU	0.7900	0.0527	-21.08	-1.23	
611	100	Shell-Thick	INVSLE	1.2734	0.0854	-5.82	-0.23	
611	100	Shell-Thick	INVSLE	1.0889	0.0273	-5.85	-0.23	
611	100	Shell-Thick	INVSLE	2.6877	0.4069	-5.85	-0.34	
611	100	Shell-Thick	INVSLE	2.9325	0.4247	-5.82	-0.34	
611	100	Shell-Thick	INVSLE	0.5489	0.0654	-13.89	-0.91	
611	100	Shell-Thick	INVSLE	0.4288	-0.0602	-13.77	-0.91	
611	100	Shell-Thick	INVSLE	1.1092	0.0955	-13.77	-0.89	
611	100	Shell-Thick	INVSLE	1.2431	0.2119	-13.89	-0.89	
611	100	Shell-Thick	INVSLU	2.1136	0.1183	-7.86	0.57	
611	100	Shell-Thick	INVSLU	1.8543	0.1288	-7.89	0.57	
611	100	Shell-Thick	INVSLU	4.5183	0.7679	-7.89	0.30	
611	100	Shell-Thick	INVSLU	4.8915	0.6714	-7.86	0.30	
611	100	Shell-Thick	INVSLU	0.7410	0.0883	-23.25	-1.23	
611	100	Shell-Thick	INVSLU	0.5789	-0.0813	-22.95	-1.23	
611	100	Shell-Thick	INVSLU	1.4974	0.1290	-22.95	-1.20	
611	100	Shell-Thick	INVSLU	1.6782	0.2861	-23.25	-1.20	
612	101	Shell-Thick	INVSLE	2.9765	0.4617	-6.31	-0.31	
612	101	Shell-Thick	INVSLE	2.7680	0.3947	-6.36	-0.31	
612	101	Shell-Thick	INVSLE	4.5208	0.7863	-6.36	-0.39	
612	101	Shell-Thick	INVSLE	4.7893	0.8131	-6.31	-0.39	
612	101	Shell-Thick	INVSLE	1.2081	0.2080	-15.19	-0.89	
612	101	Shell-Thick	INVSLE	1.0867	0.0879	-15.09	-0.89	
612	101	Shell-Thick	INVSLE	1.8266	0.2480	-15.09	-0.84	
612	101	Shell-Thick	INVSLE	1.9607	0.3597	-15.19	-0.84	
612	101	Shell-Thick	INVSLU	5.0272	0.7559	-8.52	0.37	
612	101	Shell-Thick	INVSLU	4.7178	0.7506	-8.59	0.37	
612	101	Shell-Thick	INVSLU	7.6451	1.4105	-8.59	0.13	
612	101	Shell-Thick	INVSLU	8.0695	1.3389	-8.52	0.13	
612	101	Shell-Thick	INVSLU	1.6309	0.2809	-25.48	-1.20	
612	101	Shell-Thick	INVSLU	1.4670	0.1186	-25.21	-1.20	
612	101	Shell-Thick	INVSLU	2.4659	0.3348	-25.21	-1.13	
612	101	Shell-Thick	INVSLU	2.6469	0.4855	-25.48	-1.13	
613	102	Shell-Thick	INVSLE	5.0275	0.8711	-6.79	-0.38	
613	102	Shell-Thick	INVSLE	4.6015	0.7920	-6.88	-0.38	
613	102	Shell-Thick	INVSLE	6.5079	1.2741	-6.88	-0.45	
613	102	Shell-Thick	INVSLE	7.0030	1.3070	-6.79	-0.45	
613	102	Shell-Thick	INVSLE	1.9840	0.3600	-16.52	-0.84	
613	102	Shell-Thick	INVSLE	1.8007	0.2471	-16.44	-0.84	
613	102	Shell-Thick	INVSLE	2.5982	0.4393	-16.44	-0.77	
613	102	Shell-Thick	INVSLE	2.7958	0.5425	-16.52	-0.77	
613	102	Shell-Thick	INVSLU	8.5569	1.4638	-9.16	0.16	
613	102	Shell-Thick	INVSLU	7.8492	1.4239	-9.28	0.16	
613	102	Shell-Thick	INVSLU	11.0417	2.2422	-9.28	-9.370E-02	
613	102	Shell-Thick	INVSLU	11.8818	2.1934	-9.16	-9.370E-02	
613	102	Shell-Thick	INVSLU	2.6783	0.4860	-27.81	-1.14	
613	102	Shell-Thick	INVSLU	2.4310	0.3336	-27.52	-1.14	
613	102	Shell-Thick	INVSLU	3.5075	0.5930	-27.52	-1.03	
613	102	Shell-Thick	INVSLU	3.7744	0.7324	-27.81	-1.03	
614	103	Shell-Thick	INVSLE	15.9057	3.0783	21.19	-1.024E-02	
614	103	Shell-Thick	INVSLE	14.9456	3.0920	21.39	-1.024E-02	
614	103	Shell-Thick	INVSLE	12.4980	2.6090	21.39	-0.28	
614	103	Shell-Thick	INVSLE	13.3386	2.6755	21.19	-0.28	
614	103	Shell-Thick	INVSLE	6.1450	1.2196	8.50	-0.11	
614	103	Shell-Thick	INVSLE	5.9580	1.2010	8.92	-0.11	
614	103	Shell-Thick	INVSLE	4.9436	1.0050	8.92	-0.38	
614	103	Shell-Thick	INVSLE	5.1085	1.0386	8.50	-0.38	
614	103	Shell-Thick	INVSLU	27.2245	5.2337	35.91	-1.383E-02	
614	103	Shell-Thick	INVSLU	25.3680	5.2848	35.85	-1.383E-02	
614	103	Shell-Thick	INVSLU	21.2583	4.4691	35.85	-0.17	
614	103	Shell-Thick	INVSLU	22.8824	4.5737	35.91	-0.17	
614	103	Shell-Thick	INVSLU	8.2957	1.6465	11.47	-0.22	
614	103	Shell-Thick	INVSLU	8.0432	1.6213	12.04	-0.22	
614	103	Shell-Thick	INVSLU	6.6738	1.3568	12.04	-0.51	
614	103	Shell-Thick	INVSLU	6.8965	1.4021	11.47	-0.51	
615	104	Shell-Thick	INVSLE	12.7901	2.5536	19.80	-0.30	
615	104	Shell-Thick	INVSLE	12.0904	2.5398	19.86	-0.30	
615	104	Shell-Thick	INVSLE	9.8007	1.9908	19.86	-0.36	
615	104	Shell-Thick	INVSLE	10.4089	2.0659	19.80	-0.36	
615	104	Shell-Thick	INVSLE	4.9863	1.0279	8.05	-0.36	
615	104	Shell-Thick	INVSLE	4.8203	0.9666	8.35	-0.36	

615	104 Shell-Thick	INVSLE	3.8619	0.7408	8.35	-0.63	
615	104 Shell-Thick	INVSLE	4.0123	0.8127	8.05	-0.63	
615	104 Shell-Thick	INVSLU	21.8396	4.3227	33.41	-0.23	
615	104 Shell-Thick	INVSLU	20.5210	4.3641	33.21	-0.23	
615	104 Shell-Thick	INVSLU	16.6876	3.4403	33.21	-5.248E-02	
615	104 Shell-Thick	INVSLU	17.8266	3.5192	33.41	-5.248E-02	
615	104 Shell-Thick	INVSLU	6.7315	1.3877	10.87	-0.49	
615	104 Shell-Thick	INVSLU	6.5074	1.3049	11.28	-0.49	
615	104 Shell-Thick	INVSLU	5.2135	1.0001	11.28	-0.85	
615	104 Shell-Thick	INVSLU	5.4166	1.0971	10.87	-0.85	
616	105 Shell-Thick	INVSLE	10.0282	1.9619	18.38	-0.39	
616	105 Shell-Thick	INVSLE	9.4044	1.9395	18.36	-0.39	
616	105 Shell-Thick	INVSLE	7.2854	1.5000	18.36	-0.38	
616	105 Shell-Thick	INVSLE	7.8206	1.5818	18.38	-0.38	
616	105 Shell-Thick	INVSLE	3.9504	0.8052	7.57	-0.62	
616	105 Shell-Thick	INVSLE	3.7576	0.7151	7.78	-0.62	
616	105 Shell-Thick	INVSLE	2.8619	0.5230	7.78	-0.80	
616	105 Shell-Thick	INVSLE	3.0376	0.6247	7.57	-0.80	
616	105 Shell-Thick	INVSLU	17.0762	3.3032	30.90	-0.13	
616	105 Shell-Thick	INVSLU	15.9526	3.3593	30.63	-0.13	
616	105 Shell-Thick	INVSLU	12.4150	2.6329	30.63	0.11	
616	105 Shell-Thick	INVSLU	13.3670	2.6917	30.90	0.11	
616	105 Shell-Thick	INVSLU	5.3331	1.0870	10.22	-0.84	
616	105 Shell-Thick	INVSLU	5.0728	0.9653	10.51	-0.84	
616	105 Shell-Thick	INVSLU	3.8635	0.7061	10.51	-1.09	
616	105 Shell-Thick	INVSLU	4.1008	0.8433	10.22	-1.09	
617	106 Shell-Thick	INVSLE	7.4558	1.4966	16.99	-0.40	
617	106 Shell-Thick	INVSLE	7.0835	1.4719	16.91	-0.40	
617	106 Shell-Thick	INVSLE	5.1227	0.9697	16.91	-0.33	
617	106 Shell-Thick	INVSLE	5.4235	1.0423	16.99	-0.33	
617	106 Shell-Thick	INVSLE	2.9791	0.6206	7.08	-0.80	
617	106 Shell-Thick	INVSLE	2.8346	0.5100	7.22	-0.80	
617	106 Shell-Thick	INVSLE	1.9993	0.2955	7.22	-0.91	
617	106 Shell-Thick	INVSLE	2.1306	0.4150	7.08	-0.91	
617	106 Shell-Thick	INVSLU	12.6470	2.5124	28.49	6.487E-02	
617	106 Shell-Thick	INVSLU	12.0106	2.5873	28.15	6.487E-02	
617	106 Shell-Thick	INVSLU	8.7448	1.7515	28.15	0.36	
617	106 Shell-Thick	INVSLU	9.2419	1.7698	28.49	0.36	
617	106 Shell-Thick	INVSLU	4.0218	0.8378	9.56	-1.08	
617	106 Shell-Thick	INVSLU	3.8267	0.6884	9.74	-1.08	
617	106 Shell-Thick	INVSLU	2.6990	0.3989	9.74	-1.23	
617	106 Shell-Thick	INVSLU	2.8764	0.5603	9.56	-1.23	
618	107 Shell-Thick	INVSLE	5.3378	0.9896	15.64	-0.37	
618	107 Shell-Thick	INVSLE	4.9568	0.9721	15.50	-0.37	
618	107 Shell-Thick	INVSLE	3.1579	0.4930	15.50	-0.24	
618	107 Shell-Thick	INVSLE	3.4693	0.5571	15.64	-0.24	
618	107 Shell-Thick	INVSLE	2.1612	0.4189	6.58	-0.92	
618	107 Shell-Thick	INVSLE	1.9907	0.2959	6.65	-0.92	
618	107 Shell-Thick	INVSLE	1.2188	0.0912	6.65	-0.98	
618	107 Shell-Thick	INVSLE	1.3752	0.2236	6.58	-0.98	
618	107 Shell-Thick	INVSLU	9.0215	1.6513	26.15	0.27	
618	107 Shell-Thick	INVSLU	8.3963	1.7562	25.76	0.27	
618	107 Shell-Thick	INVSLU	5.4065	0.9591	25.76	0.62	
618	107 Shell-Thick	INVSLU	5.8976	0.9438	26.15	0.62	
618	107 Shell-Thick	INVSLU	2.9176	0.5655	8.88	-1.24	
618	107 Shell-Thick	INVSLU	2.6874	0.3995	8.98	-1.24	
618	107 Shell-Thick	INVSLU	1.6454	0.1231	8.98	-1.33	
618	107 Shell-Thick	INVSLU	1.8565	0.3019	8.88	-1.33	
619	108 Shell-Thick	INVSLE	3.3956	0.5221	14.31	-0.26	
619	108 Shell-Thick	INVSLE	3.1746	0.5166	14.14	-0.26	
619	108 Shell-Thick	INVSLE	1.5295	0.0809	14.14	-0.12	
619	108 Shell-Thick	INVSLE	1.6905	0.1266	14.31	-0.12	
619	108 Shell-Thick	INVSLE	1.4034	0.2309	6.06	-0.98	
619	108 Shell-Thick	INVSLE	1.2760	0.1010	6.10	-0.98	
619	108 Shell-Thick	INVSLE	0.5661	-0.0881	6.10	-1.01	
619	108 Shell-Thick	INVSLE	0.6814	0.0499	6.06	-1.01	
619	108 Shell-Thick	INVSLU	5.7057	0.8599	23.87	0.57	
619	108 Shell-Thick	INVSLU	5.3762	0.9986	23.46	0.57	
619	108 Shell-Thick	INVSLU	2.6468	0.2769	23.46	0.92	
619	108 Shell-Thick	INVSLU	2.8606	0.2156	23.87	0.92	
619	108 Shell-Thick	INVSLU	1.8946	0.3117	8.18	-1.32	
619	108 Shell-Thick	INVSLU	1.7226	0.1363	8.23	-1.32	
619	108 Shell-Thick	INVSLU	0.7642	-0.1190	8.23	-1.37	
619	108 Shell-Thick	INVSLU	0.9199	0.0674	8.18	-1.37	
620	109 Shell-Thick	INVSLE	1.7458	0.1089	13.02	-0.15	
620	109 Shell-Thick	INVSLE	1.5774	0.1192	12.83	-0.15	
620	109 Shell-Thick	INVSLE	0.0842	-0.2526	12.83	1.810E-02	
620	109 Shell-Thick	INVSLE	0.1954	-0.1119	13.02	1.810E-02	

620	109 Shell-Thick	INVSLE	0.7500	0.0609	5.55	-1.01	
620	109 Shell-Thick	INVSLE	0.6352	-0.0716	5.55	-1.01	
620	109 Shell-Thick	INVSLE	-0.0124	-0.2961	5.55	-1.02	
620	109 Shell-Thick	INVSLE	0.0902	-0.2681	5.55	-1.02	
620	109 Shell-Thick	INVSLU	2.9005	0.1646	21.68	0.85	
620	109 Shell-Thick	INVSLU	2.6700	0.3405	21.26	0.85	
620	109 Shell-Thick	INVSLU	0.1963	-0.3410	21.26	1.22	
620	109 Shell-Thick	INVSLU	0.3175	-0.1511	21.68	1.22	
620	109 Shell-Thick	INVSLU	1.0125	0.0823	7.49	-1.37	
620	109 Shell-Thick	INVSLU	0.8575	-0.0966	7.50	-1.37	
620	109 Shell-Thick	INVSLU	-0.0168	-0.4062	7.50	-1.37	
620	109 Shell-Thick	INVSLU	0.1217	-0.4492	7.49	-1.37	
621	110 Shell-Thick	INVSLE	0.2750	-0.0985	11.76	-6.587E-03	
621	110 Shell-Thick	INVSLE	0.2269	-0.2308	11.56	-6.587E-03	
621	110 Shell-Thick	INVSLE	-0.4975	-0.3950	11.56	0.17	
621	110 Shell-Thick	INVSLE	-0.4339	-0.2554	11.76	0.17	
621	110 Shell-Thick	INVSLE	0.1641	-0.2737	5.04	-1.02	
621	110 Shell-Thick	INVSLE	0.0896	-0.2461	5.02	-1.02	
621	110 Shell-Thick	INVSLE	-1.1214	-0.6153	5.02	-1.00	
621	110 Shell-Thick	INVSLE	-1.1237	-0.6092	5.04	-1.00	
621	110 Shell-Thick	INVSLU	0.4037	-0.1330	19.55	1.17	
621	110 Shell-Thick	INVSLU	0.3860	-0.2637	19.15	1.17	
621	110 Shell-Thick	INVSLU	-0.6717	-0.5332	19.15	1.52	
621	110 Shell-Thick	INVSLU	-0.5857	-0.3448	19.55	1.52	
621	110 Shell-Thick	INVSLU	0.2215	-0.4768	6.80	-1.38	
621	110 Shell-Thick	INVSLU	0.1210	-0.3345	6.78	-1.38	
621	110 Shell-Thick	INVSLU	-1.8448	-0.8708	6.78	-1.35	
621	110 Shell-Thick	INVSLU	-1.9236	-1.0194	6.80	-1.35	
622	111 Shell-Thick	INVSLE	-0.3400	-0.2401	10.55	0.14	
622	111 Shell-Thick	INVSLE	-0.3898	-0.3700	10.35	0.14	
622	111 Shell-Thick	INVSLE	-0.9175	-0.5246	10.35	0.31	
622	111 Shell-Thick	INVSLE	-0.8781	-0.3877	10.55	0.31	
622	111 Shell-Thick	INVSLE	-0.9795	-0.6048	4.54	-1.01	
622	111 Shell-Thick	INVSLE	-0.9606	-0.5587	4.51	-1.01	
622	111 Shell-Thick	INVSLE	-2.1679	-0.9049	4.51	-0.98	
622	111 Shell-Thick	INVSLE	-2.2338	-0.9197	4.54	-0.98	
622	111 Shell-Thick	INVSLU	-0.4590	-0.3241	17.52	1.47	
622	111 Shell-Thick	INVSLU	-0.5263	-0.4995	17.13	1.47	
622	111 Shell-Thick	INVSLU	-1.2386	-0.7082	17.13	1.81	
622	111 Shell-Thick	INVSLU	-1.1854	-0.5234	17.52	1.81	
622	111 Shell-Thick	INVSLU	-1.7210	-1.0277	6.13	-1.36	
622	111 Shell-Thick	INVSLU	-1.6224	-0.7825	6.09	-1.36	
622	111 Shell-Thick	INVSLU	-3.6179	-1.3459	6.09	-1.32	
622	111 Shell-Thick	INVSLU	-3.8059	-1.5365	6.13	-1.32	
623	112 Shell-Thick	INVSLE	-0.7819	-0.3712	9.38	0.29	
623	112 Shell-Thick	INVSLE	-0.7964	-0.4976	9.18	0.29	
623	112 Shell-Thick	INVSLE	-1.2664	-0.6360	9.18	0.46	
623	112 Shell-Thick	INVSLE	-1.2611	-0.5034	9.38	0.46	
623	112 Shell-Thick	INVSLE	-2.0762	-0.9083	4.05	-0.98	
623	112 Shell-Thick	INVSLE	-1.9639	-0.8440	4.01	-0.98	
623	112 Shell-Thick	INVSLE	-3.0363	-1.1487	4.01	-0.94	
623	112 Shell-Thick	INVSLE	-3.1900	-1.1854	4.05	-0.94	
623	112 Shell-Thick	INVSLU	-1.0556	-0.5012	15.56	1.77	
623	112 Shell-Thick	INVSLU	-1.0752	-0.6718	15.19	1.77	
623	112 Shell-Thick	INVSLU	-1.7097	-0.8586	15.19	2.09	
623	112 Shell-Thick	INVSLU	-1.7025	-0.6796	15.56	2.09	
623	112 Shell-Thick	INVSLU	-3.5771	-1.5310	5.47	-1.32	
623	112 Shell-Thick	INVSLU	-3.3176	-1.2456	5.41	-1.32	
623	112 Shell-Thick	INVSLU	-5.0887	-1.7434	5.41	-1.27	
623	112 Shell-Thick	INVSLU	-5.4269	-1.9762	5.47	-1.27	
624	113 Shell-Thick	INVSLE	-1.1583	-0.4865	8.25	0.44	
624	113 Shell-Thick	INVSLE	-1.1475	-0.6085	8.06	0.44	
624	113 Shell-Thick	INVSLE	-1.5612	-0.7352	8.06	0.60	
624	113 Shell-Thick	INVSLE	-1.5805	-0.6075	8.25	0.60	
624	113 Shell-Thick	INVSLE	-3.0058	-1.1692	3.57	-0.95	
624	113 Shell-Thick	INVSLE	-2.8312	-1.0871	3.53	-0.95	
624	113 Shell-Thick	INVSLE	-3.7731	-1.3655	3.53	-0.91	
624	113 Shell-Thick	INVSLE	-3.9852	-1.4225	3.57	-0.91	
624	113 Shell-Thick	INVSLU	-1.5637	-0.6568	13.67	2.04	
624	113 Shell-Thick	INVSLU	-1.5491	-0.8215	13.33	2.04	
624	113 Shell-Thick	INVSLU	-2.1076	-0.9925	13.33	2.34	
624	113 Shell-Thick	INVSLU	-2.1337	-0.8202	13.67	2.34	
624	113 Shell-Thick	INVSLU	-5.1483	-1.9608	4.82	-1.28	
624	113 Shell-Thick	INVSLU	-4.7838	-1.6421	4.76	-1.28	
624	113 Shell-Thick	INVSLU	-6.3380	-2.0965	4.76	-1.23	
624	113 Shell-Thick	INVSLU	-6.7736	-2.3676	4.82	-1.23	
625	114 Shell-Thick	INVSLE	-1.4815	-0.5909	7.15	0.58	
625	114 Shell-Thick	INVSLE	-1.4420	-0.7082	6.99	0.58	

625	114	Shell-Thick	INVSLE	-1.8012	-0.8187	6.99	0.72
625	114	Shell-Thick	INVSLE	-1.8481	-0.6965	7.15	0.72
625	114	Shell-Thick	INVSLE	-3.8035	-1.4035	3.11	-0.91
625	114	Shell-Thick	INVSLE	-3.5575	-1.3051	3.06	-0.91
625	114	Shell-Thick	INVSLE	-4.3738	-1.5450	3.06	-0.87
625	114	Shell-Thick	INVSLE	-4.6522	-1.6218	3.11	-0.87
625	114	Shell-Thick	INVSLU	-2.0000	-0.7977	11.85	2.30
625	114	Shell-Thick	INVSLU	-1.9466	-0.9560	11.54	2.30
625	114	Shell-Thick	INVSLU	-2.4317	-1.1052	11.54	2.57
625	114	Shell-Thick	INVSLU	-2.4950	-0.9402	11.85	2.57
625	114	Shell-Thick	INVSLU	-6.4961	-2.3458	4.19	-1.23
625	114	Shell-Thick	INVSLU	-6.0107	-1.9973	4.13	-1.23
625	114	Shell-Thick	INVSLU	-7.3571	-2.3873	4.13	-1.17
625	114	Shell-Thick	INVSLU	-7.9040	-2.6948	4.19	-1.17
626	115	Shell-Thick	INVSLE	-1.7521	-0.6807	6.09	0.71
626	115	Shell-Thick	INVSLE	-1.6912	-0.7933	5.94	0.71
626	115	Shell-Thick	INVSLE	-1.9974	-0.8904	5.94	0.84
626	115	Shell-Thick	INVSLE	-2.0648	-0.7734	6.09	0.84
626	115	Shell-Thick	INVSLE	-4.4694	-1.6016	2.65	-0.87
626	115	Shell-Thick	INVSLE	-4.1730	-1.4884	2.60	-0.87
626	115	Shell-Thick	INVSLE	-4.8677	-1.6992	2.60	-0.83
626	115	Shell-Thick	INVSLE	-5.1923	-1.7935	2.65	-0.83
626	115	Shell-Thick	INVSLU	-2.3653	-0.9189	10.09	2.54
626	115	Shell-Thick	INVSLU	-2.2831	-1.0709	9.81	2.54
626	115	Shell-Thick	INVSLU	-2.6965	-1.2020	9.81	2.78
626	115	Shell-Thick	INVSLU	-2.7875	-1.0441	10.09	2.78
626	115	Shell-Thick	INVSLU	-7.6204	-2.6697	3.58	-1.18
626	115	Shell-Thick	INVSLU	-7.0510	-2.2945	3.52	-1.18
626	115	Shell-Thick	INVSLU	-8.1961	-2.6371	3.52	-1.13
626	115	Shell-Thick	INVSLU	-8.8190	-2.9765	3.58	-1.13
627	116	Shell-Thick	INVSLE	-1.9785	-0.7590	5.06	0.82
627	116	Shell-Thick	INVSLE	-1.8961	-0.8673	4.93	0.82
627	116	Shell-Thick	INVSLE	-2.1507	-0.9482	4.93	0.94
627	116	Shell-Thick	INVSLE	-2.2385	-0.8363	5.06	0.94
627	116	Shell-Thick	INVSLE	-5.0264	-1.7738	2.21	-0.84
627	116	Shell-Thick	INVSLE	-4.6781	-1.6478	2.16	-0.84
627	116	Shell-Thick	INVSLE	-5.2550	-1.8219	2.16	-0.80
627	116	Shell-Thick	INVSLE	-5.6267	-1.9322	2.21	-0.80
627	116	Shell-Thick	INVSLU	-2.6710	-1.0246	8.38	2.75
627	116	Shell-Thick	INVSLU	-2.5597	-1.1709	8.14	2.75
627	116	Shell-Thick	INVSLU	-2.9034	-1.2801	8.14	2.95
627	116	Shell-Thick	INVSLU	-3.0220	-1.1290	8.38	2.95
627	116	Shell-Thick	INVSLU	-8.5608	-2.9507	2.98	-1.13
627	116	Shell-Thick	INVSLU	-7.9041	-2.5529	2.92	-1.13
627	116	Shell-Thick	INVSLU	-8.8547	-2.8349	2.92	-1.08
627	116	Shell-Thick	INVSLU	-9.5558	-3.2031	2.98	-1.08
628	117	Shell-Thick	INVSLE	-2.1621	-0.8237	4.06	0.92
628	117	Shell-Thick	INVSLE	-2.0642	-0.9283	3.95	0.92
628	117	Shell-Thick	INVSLE	-2.2683	-0.9946	3.95	1.02
628	117	Shell-Thick	INVSLE	-2.3707	-0.8871	4.06	1.02
628	117	Shell-Thick	INVSLE	-5.4770	-1.9142	1.77	-0.80
628	117	Shell-Thick	INVSLE	-5.0926	-1.7775	1.73	-0.80
628	117	Shell-Thick	INVSLE	-5.5547	-1.9205	1.73	-0.77
628	117	Shell-Thick	INVSLE	-5.9582	-2.0444	1.77	-0.77
628	117	Shell-Thick	INVSLU	-2.9189	-1.1120	6.71	2.92
628	117	Shell-Thick	INVSLU	-2.7867	-1.2532	6.52	2.92
628	117	Shell-Thick	INVSLU	-3.0622	-1.3428	6.52	3.09
628	117	Shell-Thick	INVSLU	-3.2005	-1.1976	6.71	3.09
628	117	Shell-Thick	INVSLU	-9.3210	-3.1787	2.39	-1.09
628	117	Shell-Thick	INVSLU	-8.6044	-2.7623	2.34	-1.09
628	117	Shell-Thick	INVSLU	-9.3657	-2.9941	2.34	-1.04
628	117	Shell-Thick	INVSLU	-10.1184	-3.3863	2.39	-1.04
629	118	Shell-Thick	INVSLE	-2.3087	-0.8767	3.07	1.01
629	118	Shell-Thick	INVSLE	-2.1965	-0.9783	2.99	1.01
629	118	Shell-Thick	INVSLE	-2.3513	-1.0285	2.99	1.08
629	118	Shell-Thick	INVSLE	-2.4668	-0.9247	3.07	1.08
629	118	Shell-Thick	INVSLE	-5.8364	-2.0290	1.34	-0.78
629	118	Shell-Thick	INVSLE	-5.4177	-1.8841	1.31	-0.78
629	118	Shell-Thick	INVSLE	-5.7678	-1.9916	1.31	-0.75
629	118	Shell-Thick	INVSLE	-6.2009	-2.1268	1.34	-0.75
629	118	Shell-Thick	INVSLU	-3.1168	-1.1836	5.08	3.07
629	118	Shell-Thick	INVSLU	-2.9653	-1.3206	4.94	3.07
629	118	Shell-Thick	INVSLU	-3.1742	-1.3884	4.94	3.20
629	118	Shell-Thick	INVSLU	-3.3302	-1.2484	5.08	3.20
629	118	Shell-Thick	INVSLU	-9.9272	-3.3651	1.81	-1.05
629	118	Shell-Thick	INVSLU	-9.1531	-2.9345	1.77	-1.05
629	118	Shell-Thick	INVSLU	-9.7296	-3.1084	1.77	-1.01
629	118	Shell-Thick	INVSLU	-10.5310	-3.5208	1.81	-1.01

630	119	Shell-Thick	INVSLE	-2.4193	-0.9169	2.11	1.07
630	119	Shell-Thick	INVSLE	-2.2981	-1.0162	2.05	1.07
630	119	Shell-Thick	INVSLE	-2.4042	-1.0511	2.05	1.12
630	119	Shell-Thick	INVSLE	-2.5277	-0.9503	2.11	1.12
630	119	Shell-Thick	INVSLE	-6.1063	-2.1149	0.92	-0.75
630	119	Shell-Thick	INVSLE	-5.6666	-1.9643	0.90	-0.75
630	119	Shell-Thick	INVSLE	-5.9064	-2.0393	0.90	-0.74
630	119	Shell-Thick	INVSLE	-6.3561	-2.1832	0.92	-0.74
630	119	Shell-Thick	INVSLU	-3.2661	-1.2378	3.48	3.18
630	119	Shell-Thick	INVSLU	-3.1024	-1.3718	3.38	3.18
630	119	Shell-Thick	INVSLU	-3.2456	-1.4190	3.38	3.27
630	119	Shell-Thick	INVSLU	-3.4124	-1.2829	3.48	3.27
630	119	Shell-Thick	INVSLU	-10.3818	-3.5042	1.24	-1.02
630	119	Shell-Thick	INVSLU	-9.5728	-3.0638	1.22	-1.02
630	119	Shell-Thick	INVSLU	-9.9677	-3.1852	1.22	-0.99
630	119	Shell-Thick	INVSLU	-10.7955	-3.6130	1.24	-0.99
631	120	Shell-Thick	INVSLE	-2.4976	-0.9452	1.15	1.12
631	120	Shell-Thick	INVSLE	-2.3692	-1.0432	1.12	1.12
631	120	Shell-Thick	INVSLE	-2.4272	-1.0622	1.12	1.14
631	120	Shell-Thick	INVSLE	-2.5568	-0.9634	1.15	1.14
631	120	Shell-Thick	INVSLE	-6.2963	-2.1754	0.50	-0.74
631	120	Shell-Thick	INVSLE	-5.8388	-2.0217	0.49	-0.74
631	120	Shell-Thick	INVSLE	-5.9698	-2.0622	0.49	-0.73
631	120	Shell-Thick	INVSLE	-6.4327	-2.2123	0.50	-0.73
631	120	Shell-Thick	INVSLU	-3.3717	-1.2760	1.90	3.26
631	120	Shell-Thick	INVSLU	-3.1984	-1.4083	1.85	3.26
631	120	Shell-Thick	INVSLU	-3.2767	-1.4339	1.85	3.31
631	120	Shell-Thick	INVSLU	-3.4517	-1.3005	1.90	3.31
631	120	Shell-Thick	INVSLU	-10.7013	-3.6019	0.68	-0.99
631	120	Shell-Thick	INVSLU	-9.8622	-3.1564	0.66	-0.99
631	120	Shell-Thick	INVSLU	-10.0780	-3.2219	0.66	-0.98
631	120	Shell-Thick	INVSLU	-10.9272	-3.6607	0.68	-0.98
632	121	Shell-Thick	INVSLE	-2.5435	-0.9612	0.20	1.14
632	121	Shell-Thick	INVSLE	-2.4128	-1.0588	0.20	1.14
632	121	Shell-Thick	INVSLE	-2.4230	-1.0621	0.20	1.15
632	121	Shell-Thick	INVSLE	-2.5538	-0.9643	0.20	1.15
632	121	Shell-Thick	INVSLE	-6.4056	-2.2089	8.814E-02	-0.73
632	121	Shell-Thick	INVSLE	-5.9424	-2.0548	8.619E-02	-0.73
632	121	Shell-Thick	INVSLE	-5.9655	-2.0618	8.619E-02	-0.73
632	121	Shell-Thick	INVSLE	-6.4294	-2.2153	8.814E-02	-0.73
632	121	Shell-Thick	INVSLU	-3.4337	-1.2976	0.33	3.31
632	121	Shell-Thick	INVSLU	-3.2573	-1.4294	0.32	3.31
632	121	Shell-Thick	INVSLU	-3.2710	-1.4338	0.32	3.32
632	121	Shell-Thick	INVSLU	-3.4476	-1.3018	0.33	3.32
632	121	Shell-Thick	INVSLU	-10.8843	-3.6557	0.12	-0.98
632	121	Shell-Thick	INVSLU	-10.0355	-3.2098	0.12	-0.98
632	121	Shell-Thick	INVSLU	-10.0734	-3.2210	0.12	-0.98
632	121	Shell-Thick	INVSLU	-10.9237	-3.6660	0.12	-0.98
633	122	Shell-Thick	INVSLE	-2.5589	-0.9651	-0.33	1.15
633	122	Shell-Thick	INVSLE	-2.4280	-1.0633	-0.32	1.15
633	122	Shell-Thick	INVSLE	-2.3905	-1.0509	-0.32	1.13
633	122	Shell-Thick	INVSLE	-2.5204	-0.9532	-0.33	1.13
633	122	Shell-Thick	INVSLE	-6.4397	-2.2164	-0.75	-0.73
633	122	Shell-Thick	INVSLE	-5.9745	-2.0646	-0.73	-0.73
633	122	Shell-Thick	INVSLE	-5.8897	-2.0380	-0.73	-0.73
633	122	Shell-Thick	INVSLE	-6.3511	-2.1924	-0.75	-0.73
633	122	Shell-Thick	INVSLU	-3.4545	-1.3028	-0.44	3.32
633	122	Shell-Thick	INVSLU	-3.2779	-1.4355	-0.43	3.32
633	122	Shell-Thick	INVSLU	-3.2272	-1.4187	-0.43	3.29
633	122	Shell-Thick	INVSLU	-3.4026	-1.2869	-0.44	3.29
633	122	Shell-Thick	INVSLU	-10.9401	-3.6675	-1.23	-0.98
633	122	Shell-Thick	INVSLU	-10.0871	-3.2256	-1.20	-0.98
633	122	Shell-Thick	INVSLU	-9.9474	-3.1828	-1.20	-0.99
633	122	Shell-Thick	INVSLU	-10.7933	-3.6294	-1.23	-0.99
634	123	Shell-Thick	INVSLE	-2.5425	-0.9569	-0.74	1.13
634	123	Shell-Thick	INVSLE	-2.4164	-1.0568	-0.73	1.13
634	123	Shell-Thick	INVSLE	-2.3309	-1.0283	-0.73	1.09
634	123	Shell-Thick	INVSLE	-2.4550	-0.9298	-0.74	1.09
634	123	Shell-Thick	INVSLE	-6.3946	-2.1979	-1.70	-0.73
634	123	Shell-Thick	INVSLE	-5.9394	-2.0512	-1.65	-0.73
634	123	Shell-Thick	INVSLE	-5.7463	-1.9901	-1.65	-0.75
634	123	Shell-Thick	INVSLE	-6.1930	-2.1425	-1.70	-0.75
634	123	Shell-Thick	INVSLU	-3.4324	-1.2918	-1.00	3.29
634	123	Shell-Thick	INVSLU	-3.2621	-1.4267	-0.98	3.29
634	123	Shell-Thick	INVSLU	-3.1467	-1.3883	-0.98	3.22
634	123	Shell-Thick	INVSLU	-3.3143	-1.2552	-1.00	3.22
634	123	Shell-Thick	INVSLU	-10.8616	-3.6371	-2.81	-0.99
634	123	Shell-Thick	INVSLU	-10.0249	-3.2042	-2.73	-0.99

634	123	Shell-Thick	INVSLU	-9.7068	-3.1054	-2.73	-1.01
634	123	Shell-Thick	INVSLU	-10.5277	-3.5489	-2.81	-1.01
635	124	Shell-Thick	INVSLE	-2.4949	-0.9363	-1.16	1.10
635	124	Shell-Thick	INVSLE	-2.3753	-1.0387	-1.14	1.10
635	124	Shell-Thick	INVSLE	-2.2414	-0.9949	-1.14	1.04
635	124	Shell-Thick	INVSLE	-2.3579	-0.8946	-1.16	1.04
635	124	Shell-Thick	INVSLE	-6.2722	-2.1523	-2.66	-0.74
635	124	Shell-Thick	INVSLE	-5.8304	-2.0130	-2.59	-0.74
635	124	Shell-Thick	INVSLE	-5.5276	-1.9196	-2.59	-0.76
635	124	Shell-Thick	INVSLE	-5.9566	-2.0674	-2.66	-0.76
635	124	Shell-Thick	INVSLU	-3.3681	-1.2640	-1.57	3.24
635	124	Shell-Thick	INVSLU	-3.2066	-1.4022	-1.54	3.24
635	124	Shell-Thick	INVSLU	-3.0259	-1.3432	-1.54	3.12
635	124	Shell-Thick	INVSLU	-3.1832	-1.2076	-1.57	3.12
635	124	Shell-Thick	INVSLU	-10.6526	-3.5624	-4.40	-1.00
635	124	Shell-Thick	INVSLU	-9.8370	-3.1429	-4.27	-1.00
635	124	Shell-Thick	INVSLU	-9.3384	-2.9918	-4.27	-1.03
635	124	Shell-Thick	INVSLU	-10.1297	-3.4275	-4.40	-1.03
636	125	Shell-Thick	INVSLE	-2.4128	-0.9037	-1.59	1.05
636	125	Shell-Thick	INVSLE	-2.3050	-1.0095	-1.55	1.05
636	125	Shell-Thick	INVSLE	-2.1222	-0.9495	-1.55	0.96
636	125	Shell-Thick	INVSLE	-2.2258	-0.8465	-1.59	0.96
636	125	Shell-Thick	INVSLE	-6.0643	-2.0809	-3.64	-0.76
636	125	Shell-Thick	INVSLE	-5.6489	-1.9519	-3.54	-0.76
636	125	Shell-Thick	INVSLE	-5.2351	-1.8229	-3.54	-0.79
636	125	Shell-Thick	INVSLE	-5.6329	-1.9636	-3.64	-0.79
636	125	Shell-Thick	INVSLU	-3.2573	-1.2199	-2.14	3.14
636	125	Shell-Thick	INVSLU	-3.1118	-1.3629	-2.10	3.14
636	125	Shell-Thick	INVSLU	-2.8649	-1.2819	-2.10	2.99
636	125	Shell-Thick	INVSLU	-3.0048	-1.1427	-2.14	2.99
636	125	Shell-Thick	INVSLU	-10.2988	-3.4460	-6.01	-1.03
636	125	Shell-Thick	INVSLU	-9.5266	-3.0447	-5.84	-1.03
636	125	Shell-Thick	INVSLU	-8.8449	-2.8356	-5.84	-1.07
636	125	Shell-Thick	INVSLU	-9.5838	-3.2590	-6.01	-1.07
637	126	Shell-Thick	INVSLE	-2.2958	-0.8579	-2.02	0.97
637	126	Shell-Thick	INVSLE	-2.2012	-0.9679	-1.98	0.97
637	126	Shell-Thick	INVSLE	-1.9683	-0.8933	-1.98	0.87
637	126	Shell-Thick	INVSLE	-2.0578	-0.7868	-2.02	0.87
637	126	Shell-Thick	INVSLE	-5.7704	-1.9800	-4.63	-0.79
637	126	Shell-Thick	INVSLE	-5.3834	-1.8636	-4.51	-0.79
637	126	Shell-Thick	INVSLE	-4.8559	-1.7035	-4.51	-0.82
637	126	Shell-Thick	INVSLE	-5.2210	-1.8346	-4.63	-0.82
637	126	Shell-Thick	INVSLU	-3.0993	-1.1582	-2.73	3.02
637	126	Shell-Thick	INVSLU	-2.9716	-1.3067	-2.67	3.02
637	126	Shell-Thick	INVSLU	-2.6572	-1.2060	-2.67	2.83
637	126	Shell-Thick	INVSLU	-2.7780	-1.0621	-2.73	2.83
637	126	Shell-Thick	INVSLU	-9.7997	-3.2813	-7.66	-1.06
637	126	Shell-Thick	INVSLU	-9.0735	-2.9022	-7.45	-1.06
637	126	Shell-Thick	INVSLU	-8.2044	-2.6430	-7.45	-1.11
637	126	Shell-Thick	INVSLU	-8.8892	-3.0497	-7.66	-1.11
638	127	Shell-Thick	INVSLE	-2.1387	-0.8002	-2.46	0.88
638	127	Shell-Thick	INVSLE	-2.0632	-0.9150	-2.42	0.88
638	127	Shell-Thick	INVSLE	-1.7793	-0.8241	-2.42	0.76
638	127	Shell-Thick	INVSLE	-1.8485	-0.7135	-2.46	0.76
638	127	Shell-Thick	INVSLE	-5.3769	-1.8531	-5.65	-0.82
638	127	Shell-Thick	INVSLE	-5.0339	-1.7517	-5.51	-0.82
638	127	Shell-Thick	INVSLE	-4.3901	-1.5548	-5.51	-0.86
638	127	Shell-Thick	INVSLE	-4.7063	-1.6741	-5.65	-0.86
638	127	Shell-Thick	INVSLU	-2.8872	-1.0803	-3.32	2.86
638	127	Shell-Thick	INVSLU	-2.7854	-1.2353	-3.26	2.86
638	127	Shell-Thick	INVSLU	-2.4020	-1.1126	-3.26	2.63
638	127	Shell-Thick	INVSLU	-2.4954	-0.9632	-3.32	2.63
638	127	Shell-Thick	INVSLU	-9.1321	-3.0741	-9.35	-1.11
638	127	Shell-Thick	INVSLU	-8.4788	-2.7220	-9.10	-1.11
638	127	Shell-Thick	INVSLU	-7.4178	-2.4021	-9.10	-1.16
638	127	Shell-Thick	INVSLU	-8.0204	-2.7880	-9.35	-1.16
639	128	Shell-Thick	INVSLE	-1.9403	-0.7285	-2.91	0.78
639	128	Shell-Thick	INVSLE	-1.8840	-0.8484	-2.86	0.78
639	128	Shell-Thick	INVSLE	-1.5476	-0.7441	-2.86	0.64
639	128	Shell-Thick	INVSLE	-1.5968	-0.6289	-2.91	0.64
639	128	Shell-Thick	INVSLE	-4.8823	-1.6935	-6.70	-0.85
639	128	Shell-Thick	INVSLE	-4.5819	-1.6089	-6.54	-0.85
639	128	Shell-Thick	INVSLE	-3.8181	-1.3829	-6.54	-0.89
639	128	Shell-Thick	INVSLE	-4.0875	-1.4882	-6.70	-0.89
639	128	Shell-Thick	INVSLU	-2.6195	-0.9835	-3.93	2.67
639	128	Shell-Thick	INVSLU	-2.5434	-1.1454	-3.87	2.67
639	128	Shell-Thick	INVSLU	-2.0893	-1.0045	-3.87	2.41
639	128	Shell-Thick	INVSLU	-2.1557	-0.8490	-3.93	2.41

639	128	Shell-Thick	INVSLU	-8.2938	-2.8125	-11.09	-1.15	
639	128	Shell-Thick	INVSLU	-7.7103	-2.4907	-10.80	-1.15	
639	128	Shell-Thick	INVSLU	-6.4509	-2.1238	-10.80	-1.21	
639	128	Shell-Thick	INVSLU	-6.9758	-2.4846	-11.09	-1.21	
640	129	Shell-Thick	INVSLE	-1.6929	-0.6449	-3.37	0.65	
640	129	Shell-Thick	INVSLE	-1.6632	-0.7703	-3.32	0.65	
640	129	Shell-Thick	INVSLE	-1.2730	-0.6495	-3.32	0.50	
640	129	Shell-Thick	INVSLE	-1.2944	-0.5297	-3.37	0.50	
640	129	Shell-Thick	INVSLE	-4.2652	-1.5071	-7.78	-0.89	
640	129	Shell-Thick	INVSLE	-4.0283	-1.4416	-7.60	-0.89	
640	129	Shell-Thick	INVSLE	-3.1409	-1.1769	-7.60	-0.93	
640	129	Shell-Thick	INVSLE	-3.3417	-1.2665	-7.78	-0.93	
640	129	Shell-Thick	INVSLU	-2.2854	-0.8707	-4.55	2.45	
640	129	Shell-Thick	INVSLU	-2.2453	-1.0399	-4.49	2.45	
640	129	Shell-Thick	INVSLU	-1.7185	-0.8769	-4.49	2.16	
640	129	Shell-Thick	INVSLU	-1.7475	-0.7151	-4.55	2.16	
640	129	Shell-Thick	INVSLU	-7.2480	-2.5069	-12.88	-1.20	
640	129	Shell-Thick	INVSLU	-6.7709	-2.2200	-12.56	-1.20	
640	129	Shell-Thick	INVSLU	-5.3070	-1.7884	-12.56	-1.26	
640	129	Shell-Thick	INVSLU	-5.7158	-2.1209	-12.88	-1.26	
641	130	Shell-Thick	INVSLE	-1.3960	-0.5462	-3.85	0.52	
641	130	Shell-Thick	INVSLE	-1.3897	-0.6767	-3.80	0.52	
641	130	Shell-Thick	INVSLE	-0.9439	-0.5441	-3.80	0.36	
641	130	Shell-Thick	INVSLE	-0.9413	-0.4197	-3.85	0.36	
641	130	Shell-Thick	INVSLE	-3.5263	-1.2833	-8.89	-0.93	
641	130	Shell-Thick	INVSLE	-3.3439	-1.2376	-8.70	-0.93	
641	130	Shell-Thick	INVSLE	-2.3279	-0.9468	-8.70	-0.97	
641	130	Shell-Thick	INVSLE	-2.4704	-1.0191	-8.89	-0.97	
641	130	Shell-Thick	INVSLU	-1.8846	-0.7374	-5.19	2.20	
641	130	Shell-Thick	INVSLU	-1.8761	-0.9135	-5.13	2.20	
641	130	Shell-Thick	INVSLU	-1.2743	-0.7346	-5.13	1.89	
641	130	Shell-Thick	INVSLU	-1.2707	-0.5666	-5.19	1.89	
641	130	Shell-Thick	INVSLU	-5.9966	-2.1380	-14.74	-1.25	
641	130	Shell-Thick	INVSLU	-5.6100	-1.8880	-14.38	-1.25	
641	130	Shell-Thick	INVSLU	-3.9328	-1.4137	-14.38	-1.31	
641	130	Shell-Thick	INVSLU	-4.2437	-1.7143	-14.74	-1.31	
642	131	Shell-Thick	INVSLE	-1.0375	-0.4360	-4.33	0.38	
642	131	Shell-Thick	INVSLE	-1.0650	-0.5713	-4.29	0.38	
642	131	Shell-Thick	INVSLE	-0.5624	-0.4222	-4.29	0.20	
642	131	Shell-Thick	INVSLE	-0.5246	-0.2938	-4.33	0.20	
642	131	Shell-Thick	INVSLE	-2.6318	-1.0319	-10.04	-0.96	
642	131	Shell-Thick	INVSLE	-2.5354	-1.0079	-9.85	-0.96	
642	131	Shell-Thick	INVSLE	-1.3868	-0.6754	-9.85	-1.00	
642	131	Shell-Thick	INVSLE	-1.4377	-0.7298	-10.04	-1.00	
642	131	Shell-Thick	INVSLU	-1.4006	-0.5886	-5.85	1.93	
642	131	Shell-Thick	INVSLU	-1.4378	-0.7712	-5.79	1.93	
642	131	Shell-Thick	INVSLU	-0.7592	-0.5700	-5.79	1.60	
642	131	Shell-Thick	INVSLU	-0.7082	-0.3966	-5.85	1.60	
642	131	Shell-Thick	INVSLU	-4.4806	-1.7228	-16.67	-1.30	
642	131	Shell-Thick	INVSLU	-4.2405	-1.5142	-16.29	-1.30	
642	131	Shell-Thick	INVSLU	-2.3429	-0.9690	-16.29	-1.35	
642	131	Shell-Thick	INVSLU	-2.4966	-1.2354	-16.67	-1.35	
643	132	Shell-Thick	INVSLE	-0.6208	-0.3093	-4.83	0.23	
643	132	Shell-Thick	INVSLE	-0.6718	-0.4478	-4.80	0.23	
643	132	Shell-Thick	INVSLE	-0.1103	-0.2892	-4.80	5.819E-02	
643	132	Shell-Thick	INVSLE	-0.0486	-0.1577	-4.83	5.819E-02	
643	132	Shell-Thick	INVSLE	-1.5921	-0.7364	-11.24	-0.99	
643	132	Shell-Thick	INVSLE	-1.5551	-0.7333	-11.04	-0.99	
643	132	Shell-Thick	INVSLE	-0.2678	-0.3782	-11.04	-1.01	
643	132	Shell-Thick	INVSLE	-0.2559	-0.4141	-11.24	-1.01	
643	132	Shell-Thick	INVSLU	-0.8380	-0.4175	-6.51	1.65	
643	132	Shell-Thick	INVSLU	-0.9070	-0.6046	-6.48	1.65	
643	132	Shell-Thick	INVSLU	-0.1489	-0.3904	-6.48	1.30	
643	132	Shell-Thick	INVSLU	-0.0656	-0.2129	-6.51	1.30	
643	132	Shell-Thick	INVSLU	-2.7185	-1.2318	-18.67	-1.34	
643	132	Shell-Thick	INVSLU	-2.5793	-1.0643	-18.27	-1.34	
643	132	Shell-Thick	INVSLU	-0.4505	-0.5240	-18.27	-1.37	
643	132	Shell-Thick	INVSLU	-0.4963	-0.7113	-18.67	-1.37	
644	133	Shell-Thick	INVSLE	-0.1259	-0.1715	-5.33	8.223E-02	
644	133	Shell-Thick	INVSLE	-0.2175	-0.3122	-5.32	8.223E-02	
644	133	Shell-Thick	INVSLE	1.0033	-0.0299	-5.32	-8.960E-02	
644	133	Shell-Thick	INVSLE	1.1366	-0.0040	-5.33	-8.960E-02	
644	133	Shell-Thick	INVSLE	-0.3489	-0.4118	-12.47	-1.01	
644	133	Shell-Thick	INVSLE	-0.4265	-0.4309	-12.28	-1.01	
644	133	Shell-Thick	INVSLE	0.4039	-0.1366	-12.28	-1.02	
644	133	Shell-Thick	INVSLE	0.5076	-0.0480	-12.47	-1.02	
644	133	Shell-Thick	INVSLU	-0.1699	-0.2316	-7.20	1.35	
644	133	Shell-Thick	INVSLU	-0.2936	-0.4215	-7.19	1.35	

644	133	Shell-Thick	INVSLU	1.6984	0.0939	-7.19	0.99	
644	133	Shell-Thick	INVSLU	1.8659	-0.0054	-7.20	0.99	
644	133	Shell-Thick	INVSLU	-0.6075	-0.6903	-20.76	-1.37	
644	133	Shell-Thick	INVSLU	-0.6688	-0.5995	-20.34	-1.37	
644	133	Shell-Thick	INVSLU	0.5453	-0.1844	-20.34	-1.38	
644	133	Shell-Thick	INVSLU	0.6853	-0.0990	-20.76	-1.38	
645	134	Shell-Thick	INVSLE	1.0574	-0.0157	-5.84	-5.700E-02	
645	134	Shell-Thick	INVSLE	0.9353	-0.0724	-5.86	-5.700E-02	
645	134	Shell-Thick	INVSLE	2.5149	0.3499	-5.86	-0.21	
645	134	Shell-Thick	INVSLE	2.6951	0.3485	-5.84	-0.21	
645	134	Shell-Thick	INVSLE	0.4323	-0.0349	-13.75	-1.02	
645	134	Shell-Thick	INVSLE	0.3279	-0.1551	-13.57	-1.02	
645	134	Shell-Thick	INVSLE	1.0111	0.0290	-13.57	-1.00	
645	134	Shell-Thick	INVSLE	1.1275	0.1604	-13.75	-1.00	
645	134	Shell-Thick	INVSLU	1.7822	-0.0212	-7.89	1.05	
645	134	Shell-Thick	INVSLU	1.6397	0.0234	-7.91	1.05	
645	134	Shell-Thick	INVSLU	4.2586	0.7219	-7.91	0.70	
645	134	Shell-Thick	INVSLU	4.5130	0.5667	-7.89	0.70	
645	134	Shell-Thick	INVSLU	0.5837	-0.0571	-22.92	-1.37	
645	134	Shell-Thick	INVSLU	0.4427	-0.2094	-22.51	-1.37	
645	134	Shell-Thick	INVSLU	1.3650	0.0392	-22.51	-1.35	
645	134	Shell-Thick	INVSLU	1.5221	0.2165	-22.92	-1.35	
646	135	Shell-Thick	INVSLE	2.7443	0.3778	-6.36	-0.19	
646	135	Shell-Thick	INVSLE	2.4640	0.3202	-6.41	-0.19	
646	135	Shell-Thick	INVSLE	4.1952	0.7847	-6.41	-0.33	
646	135	Shell-Thick	INVSLE	4.5433	0.7969	-6.36	-0.33	
646	135	Shell-Thick	INVSLE	1.0930	0.1522	-15.07	-1.00	
646	135	Shell-Thick	INVSLE	0.9417	0.0164	-14.91	-1.00	
646	135	Shell-Thick	INVSLE	1.6866	0.2157	-14.91	-0.95	
646	135	Shell-Thick	INVSLE	1.8520	0.3421	-15.07	-0.95	
646	135	Shell-Thick	INVSLU	4.6592	0.6394	-8.58	0.75	
646	135	Shell-Thick	INVSLU	4.2293	0.6726	-8.66	0.75	
646	135	Shell-Thick	INVSLU	7.1042	1.4446	-8.66	0.39	
646	135	Shell-Thick	INVSLU	7.6642	1.3244	-8.58	0.39	
646	135	Shell-Thick	INVSLU	1.4755	0.2055	-25.17	-1.35	
646	135	Shell-Thick	INVSLU	1.2713	0.0221	-24.76	-1.35	
646	135	Shell-Thick	INVSLU	2.2769	0.2912	-24.76	-1.28	
646	135	Shell-Thick	INVSLU	2.5001	0.4618	-25.17	-1.28	
647	136	Shell-Thick	INVSLE	4.5821	0.8414	-6.87	-0.29	
647	136	Shell-Thick	INVSLE	4.3221	0.7733	-6.97	-0.29	
647	136	Shell-Thick	INVSLE	6.2137	1.2777	-6.97	-0.38	
647	136	Shell-Thick	INVSLE	6.5423	1.2998	-6.87	-0.38	
647	136	Shell-Thick	INVSLE	1.8081	0.3366	-16.41	-0.95	
647	136	Shell-Thick	INVSLE	1.6804	0.2111	-16.30	-0.95	
647	136	Shell-Thick	INVSLE	2.4889	0.4260	-16.30	-0.85	
647	136	Shell-Thick	INVSLE	2.6294	0.5427	-16.41	-0.85	
647	136	Shell-Thick	INVSLU	7.7989	1.4269	-9.27	0.48	
647	136	Shell-Thick	INVSLU	7.3853	1.4252	-9.41	0.48	
647	136	Shell-Thick	INVSLU	10.5330	2.2653	-9.41	0.16	
647	136	Shell-Thick	INVSLU	11.0798	2.1777	-9.27	0.16	
647	136	Shell-Thick	INVSLU	2.4409	0.4544	-27.47	-1.28	
647	136	Shell-Thick	INVSLU	2.2686	0.2850	-27.11	-1.28	
647	136	Shell-Thick	INVSLU	3.3600	0.5751	-27.11	-1.15	
647	136	Shell-Thick	INVSLU	3.5497	0.7327	-27.47	-1.15	
648	137	Shell-Thick	INVSLE	14.9717	2.8944	21.32	-9.451E-03	
648	137	Shell-Thick	INVSLE	14.0588	2.9117	21.47	-9.451E-03	
648	137	Shell-Thick	INVSLE	11.5986	2.3446	21.47	-0.23	
648	137	Shell-Thick	INVSLE	12.3921	2.4075	21.32	-0.23	
648	137	Shell-Thick	INVSLE	5.9872	1.1888	8.89	-0.11	
648	137	Shell-Thick	INVSLE	5.8053	1.1697	9.31	-0.11	
648	137	Shell-Thick	INVSLE	4.7443	0.9354	9.31	-0.38	
648	137	Shell-Thick	INVSLE	4.9047	0.9691	8.89	-0.38	
648	137	Shell-Thick	INVSLU	25.3903	4.8723	35.74	-1.276E-02	
648	137	Shell-Thick	INVSLU	23.6297	4.9317	35.56	-1.276E-02	
648	137	Shell-Thick	INVSLU	19.5470	3.9788	35.56	-5.918E-02	
648	137	Shell-Thick	INVSLU	21.0748	4.0755	35.74	-5.918E-02	
648	137	Shell-Thick	INVSLU	8.0827	1.6049	12.00	-0.22	
648	137	Shell-Thick	INVSLU	7.8372	1.5791	12.57	-0.22	
648	137	Shell-Thick	INVSLU	6.4048	1.2628	12.57	-0.52	
648	137	Shell-Thick	INVSLU	6.6213	1.3083	12.00	-0.52	
649	138	Shell-Thick	INVSLE	12.1121	2.3195	19.80	-0.27	
649	138	Shell-Thick	INVSLE	11.3095	2.3188	19.82	-0.27	
649	138	Shell-Thick	INVSLE	9.0319	1.8588	19.82	-0.29	
649	138	Shell-Thick	INVSLE	9.7236	1.9338	19.80	-0.29	
649	138	Shell-Thick	INVSLE	4.8493	0.9668	8.33	-0.38	
649	138	Shell-Thick	INVSLE	4.6389	0.9056	8.63	-0.38	
649	138	Shell-Thick	INVSLE	3.6510	0.7000	8.63	-0.64	
649	138	Shell-Thick	INVSLE	3.8399	0.7758	8.33	-0.64	

649	138	Shell-Thick	INVSLU	20.5343	3.8881	33.10	-0.15	
649	138	Shell-Thick	INVSLU	19.0450	3.9577	32.80	-0.15	
649	138	Shell-Thick	INVSLU	15.2716	3.2026	32.80	0.12	
649	138	Shell-Thick	INVSLU	16.5464	3.2767	33.10	0.12	
649	138	Shell-Thick	INVSLU	6.5465	1.3051	11.24	-0.51	
649	138	Shell-Thick	INVSLU	6.2625	1.2225	11.65	-0.51	
649	138	Shell-Thick	INVSLU	4.9288	0.9451	11.65	-0.87	
649	138	Shell-Thick	INVSLU	5.1839	1.0473	11.24	-0.87	
650	139	Shell-Thick	INVSLE	9.4229	1.8509	18.32	-0.32	
650	139	Shell-Thick	INVSLE	8.8360	1.8424	18.24	-0.32	
650	139	Shell-Thick	INVSLE	6.7271	1.3116	18.24	-0.25	
650	139	Shell-Thick	INVSLE	7.2251	1.3796	18.32	-0.25	
650	139	Shell-Thick	INVSLE	3.7856	0.7733	7.77	-0.64	
650	139	Shell-Thick	INVSLE	3.5993	0.6813	7.97	-0.64	
650	139	Shell-Thick	INVSLE	2.6807	0.4457	7.97	-0.82	
650	139	Shell-Thick	INVSLE	2.8507	0.5487	7.77	-0.82	
650	139	Shell-Thick	INVSLU	15.9601	3.1005	30.57	4.713E-02	
650	139	Shell-Thick	INVSLU	14.9086	3.1889	30.16	4.713E-02	
650	139	Shell-Thick	INVSLU	11.4194	2.3157	30.16	0.41	
650	139	Shell-Thick	INVSLU	12.2978	2.3431	30.57	0.41	
650	139	Shell-Thick	INVSLU	5.1106	1.0440	10.48	-0.86	
650	139	Shell-Thick	INVSLU	4.8591	0.9198	10.76	-0.86	
650	139	Shell-Thick	INVSLU	3.6190	0.6017	10.76	-1.10	
650	139	Shell-Thick	INVSLU	3.8484	0.7408	10.48	-1.10	
651	140	Shell-Thick	INVSLE	7.0902	1.3177	16.87	-0.29	
651	140	Shell-Thick	INVSLE	6.5726	1.3156	16.72	-0.29	
651	140	Shell-Thick	INVSLE	4.6361	0.8364	16.72	-0.16	
651	140	Shell-Thick	INVSLE	5.0701	0.8943	16.87	-0.16	
651	140	Shell-Thick	INVSLE	2.8577	0.5516	7.20	-0.81	
651	140	Shell-Thick	INVSLE	2.6606	0.4401	7.33	-0.81	
651	140	Shell-Thick	INVSLE	1.8131	0.2199	7.33	-0.93	
651	140	Shell-Thick	INVSLE	1.9939	0.3424	7.20	-0.93	
651	140	Shell-Thick	INVSLU	11.9983	2.2061	28.09	0.32	
651	140	Shell-Thick	INVSLU	11.1091	2.3308	27.61	0.32	
651	140	Shell-Thick	INVSLU	7.9096	1.5512	27.61	0.73	
651	140	Shell-Thick	INVSLU	8.6374	1.5343	28.09	0.73	
651	140	Shell-Thick	INVSLU	3.8579	0.7447	9.72	-1.10	
651	140	Shell-Thick	INVSLU	3.5918	0.5942	9.89	-1.10	
651	140	Shell-Thick	INVSLU	2.4477	0.2969	9.89	-1.25	
651	140	Shell-Thick	INVSLU	2.6918	0.4623	9.72	-1.25	
652	141	Shell-Thick	INVSLE	4.9579	0.8490	15.47	-0.18	
652	141	Shell-Thick	INVSLE	4.6354	0.8591	15.27	-0.18	
652	141	Shell-Thick	INVSLE	2.8595	0.3632	15.27	-8.158E-03	
652	141	Shell-Thick	INVSLE	3.1133	0.3991	15.47	-8.158E-03	
652	141	Shell-Thick	INVSLE	2.0103	0.3491	6.64	-0.92	
652	141	Shell-Thick	INVSLE	1.8579	0.2255	6.71	-0.92	
652	141	Shell-Thick	INVSLE	1.0782	-0.0011	6.71	-0.98	
652	141	Shell-Thick	INVSLE	1.2178	0.1312	6.64	-0.98	
652	141	Shell-Thick	INVSLU	8.3761	1.4287	25.71	0.67	
652	141	Shell-Thick	INVSLU	7.8563	1.5938	25.20	0.67	
652	141	Shell-Thick	INVSLU	4.9252	0.7856	25.20	1.12	
652	141	Shell-Thick	INVSLU	5.3114	0.7098	25.71	1.12	
652	141	Shell-Thick	INVSLU	2.7140	0.4713	8.97	-1.25	
652	141	Shell-Thick	INVSLU	2.5082	0.3044	9.06	-1.25	
652	141	Shell-Thick	INVSLU	1.4556	-0.0014	9.06	-1.32	
652	141	Shell-Thick	INVSLU	1.6440	0.1772	8.97	-1.32	
653	142	Shell-Thick	INVSLE	3.1647	0.3751	14.12	-4.669E-02	
653	142	Shell-Thick	INVSLE	2.8947	0.4045	13.88	-4.669E-02	
653	142	Shell-Thick	INVSLE	1.2782	-0.0684	13.88	0.16	
653	142	Shell-Thick	INVSLE	1.4840	-0.0548	14.12	0.16	
653	142	Shell-Thick	INVSLE	1.2899	0.1434	6.09	-0.98	
653	142	Shell-Thick	INVSLE	1.1432	0.0142	6.11	-0.98	
653	142	Shell-Thick	INVSLE	0.4311	-0.2028	6.11	-1.00	
653	142	Shell-Thick	INVSLE	0.5652	-0.0653	6.09	-1.00	
653	142	Shell-Thick	INVSLU	5.3388	0.6439	23.43	1.04	
653	142	Shell-Thick	INVSLU	4.9258	0.8570	22.89	1.04	
653	142	Shell-Thick	INVSLU	2.2605	0.0875	22.89	1.51	
653	142	Shell-Thick	INVSLU	2.5494	-0.0427	23.43	1.51	
653	142	Shell-Thick	INVSLU	1.7414	0.1936	8.22	-1.33	
653	142	Shell-Thick	INVSLU	1.5434	0.0192	8.25	-1.33	
653	142	Shell-Thick	INVSLU	0.5820	-0.2738	8.25	-1.35	
653	142	Shell-Thick	INVSLU	0.7631	-0.0881	8.22	-1.35	
654	143	Shell-Thick	INVSLE	1.5553	-0.0503	12.81	0.14	
654	143	Shell-Thick	INVSLE	1.4291	-0.0136	12.55	0.14	
654	143	Shell-Thick	INVSLE	-0.0371	-0.3849	12.55	0.36	
654	143	Shell-Thick	INVSLE	0.0346	-0.2478	12.81	0.36	
654	143	Shell-Thick	INVSLE	0.6429	-0.0652	5.55	-1.00	
654	143	Shell-Thick	INVSLE	0.5405	-0.1805	5.53	-1.00	

654	143	Shell-Thick	INVSLE	-0.1070	-0.4550	5.53	-0.99	
654	143	Shell-Thick	INVSLE	-0.0149	-0.4702	5.55	-0.99	
654	143	Shell-Thick	INVSLU	2.6133	-0.0678	21.23	1.45	
654	143	Shell-Thick	INVSLU	2.4596	0.1799	20.69	1.45	
654	143	Shell-Thick	INVSLU	0.0439	-0.5196	20.69	1.92	
654	143	Shell-Thick	INVSLU	0.0920	-0.3345	21.23	1.92	
654	143	Shell-Thick	INVSLU	0.8679	-0.0903	7.49	-1.35	
654	143	Shell-Thick	INVSLU	0.7296	-0.2436	7.47	-1.35	
654	143	Shell-Thick	INVSLU	-0.1445	-0.6248	7.47	-1.33	
654	143	Shell-Thick	INVSLU	-0.0201	-0.7282	7.49	-1.33	
655	144	Shell-Thick	INVSLE	0.1921	-0.2300	11.55	0.33	
655	144	Shell-Thick	INVSLE	0.1348	-0.3578	11.29	0.33	
655	144	Shell-Thick	INVSLE	-0.5726	-0.5504	11.29	0.56	
655	144	Shell-Thick	INVSLE	-0.5029	-0.4161	11.55	0.56	
655	144	Shell-Thick	INVSLE	0.0910	-0.4680	5.02	-0.99	
655	144	Shell-Thick	INVSLE	0.0116	-0.3914	4.98	-0.99	
655	144	Shell-Thick	INVSLE	-1.1850	-0.8064	4.98	-0.96	
655	144	Shell-Thick	INVSLE	-1.1778	-0.8495	5.02	-0.96	
655	144	Shell-Thick	INVSLU	0.3093	-0.3105	19.13	1.86	
655	144	Shell-Thick	INVSLU	0.2777	-0.4304	18.60	1.86	
655	144	Shell-Thick	INVSLU	-0.7730	-0.7430	18.60	2.32	
655	144	Shell-Thick	INVSLU	-0.6789	-0.5617	19.13	2.32	
655	144	Shell-Thick	INVSLU	0.1228	-0.7439	6.78	-1.34	
655	144	Shell-Thick	INVSLU	0.0156	-0.5335	6.72	-1.34	
655	144	Shell-Thick	INVSLU	-1.8951	-1.1270	6.72	-1.29	
655	144	Shell-Thick	INVSLU	-1.9604	-1.3521	6.78	-1.29	
656	145	Shell-Thick	INVSLE	-0.3947	-0.3969	10.34	0.54	
656	145	Shell-Thick	INVSLE	-0.4336	-0.5201	10.08	0.54	
656	145	Shell-Thick	INVSLE	-0.9571	-0.6955	10.08	0.77	
656	145	Shell-Thick	INVSLE	-0.9264	-0.5669	10.34	0.77	
656	145	Shell-Thick	INVSLE	-1.0082	-0.8388	4.51	-0.96	
656	145	Shell-Thick	INVSLE	-0.9537	-0.7370	4.45	-0.96	
656	145	Shell-Thick	INVSLE	-2.1347	-1.1108	4.45	-0.91	
656	145	Shell-Thick	INVSLE	-2.2320	-1.1840	4.51	-0.91	
656	145	Shell-Thick	INVSLU	-0.5329	-0.5358	17.11	2.27	
656	145	Shell-Thick	INVSLU	-0.5853	-0.7022	16.60	2.27	
656	145	Shell-Thick	INVSLU	-1.2921	-0.9389	16.60	2.71	
656	145	Shell-Thick	INVSLU	-1.2506	-0.7653	17.11	2.71	
656	145	Shell-Thick	INVSLU	-1.7197	-1.3512	6.08	-1.30	
656	145	Shell-Thick	INVSLU	-1.5570	-1.0274	6.01	-1.30	
656	145	Shell-Thick	INVSLU	-3.5002	-1.5925	6.01	-1.23	
656	145	Shell-Thick	INVSLU	-3.7461	-1.8997	6.08	-1.23	
657	146	Shell-Thick	INVSLE	-0.8070	-0.5468	9.18	0.74	
657	146	Shell-Thick	INVSLE	-0.8185	-0.6640	8.92	0.74	
657	146	Shell-Thick	INVSLE	-1.2832	-0.8252	8.92	0.96	
657	146	Shell-Thick	INVSLE	-1.2791	-0.7031	9.18	0.96	
657	146	Shell-Thick	INVSLE	-2.0232	-1.1667	4.01	-0.92	
657	146	Shell-Thick	INVSLE	-1.9002	-1.0395	3.95	-0.92	
657	146	Shell-Thick	INVSLE	-2.9468	-1.3829	3.95	-0.86	
657	146	Shell-Thick	INVSLE	-3.1086	-1.4843	4.01	-0.86	
657	146	Shell-Thick	INVSLU	-1.0894	-0.7382	15.17	2.66	
657	146	Shell-Thick	INVSLU	-1.1049	-0.8964	14.70	2.66	
657	146	Shell-Thick	INVSLU	-1.7323	-1.1140	14.70	3.08	
657	146	Shell-Thick	INVSLU	-1.7268	-0.9492	15.17	3.08	
657	146	Shell-Thick	INVSLU	-3.4336	-1.8856	5.41	-1.24	
657	146	Shell-Thick	INVSLU	-3.1546	-1.4750	5.33	-1.24	
657	146	Shell-Thick	INVSLU	-4.8760	-2.0297	5.33	-1.16	
657	146	Shell-Thick	INVSLU	-5.2301	-2.3902	5.41	-1.16	
658	147	Shell-Thick	INVSLE	-1.1632	-0.6831	8.06	0.94	
658	147	Shell-Thick	INVSLE	-1.1405	-0.7935	7.82	0.94	
658	147	Shell-Thick	INVSLE	-1.5488	-0.9363	7.82	1.15	
658	147	Shell-Thick	INVSLE	-1.5777	-0.8218	8.06	1.15	
658	147	Shell-Thick	INVSLE	-2.9017	-1.4631	3.53	-0.87	
658	147	Shell-Thick	INVSLE	-2.6921	-1.3118	3.46	-0.87	
658	147	Shell-Thick	INVSLE	-3.6107	-1.6134	3.46	-0.81	
658	147	Shell-Thick	INVSLE	-3.8533	-1.7427	3.53	-0.81	
658	147	Shell-Thick	INVSLU	-1.5703	-0.9221	13.31	3.03	
658	147	Shell-Thick	INVSLU	-1.5397	-1.0712	12.88	3.03	
658	147	Shell-Thick	INVSLU	-2.0909	-1.2641	12.88	3.41	
658	147	Shell-Thick	INVSLU	-2.1299	-1.1095	13.31	3.41	
658	147	Shell-Thick	INVSLU	-4.9176	-2.3676	4.76	-1.17	
658	147	Shell-Thick	INVSLU	-4.4913	-1.9130	4.67	-1.17	
658	147	Shell-Thick	INVSLU	-6.0017	-2.3986	4.67	-1.09	
658	147	Shell-Thick	INVSLU	-6.4921	-2.8105	4.76	-1.09	
659	148	Shell-Thick	INVSLE	-1.4622	-0.8024	6.98	1.13	
659	148	Shell-Thick	INVSLE	-1.4147	-0.9058	6.76	1.13	
659	148	Shell-Thick	INVSLE	-1.7684	-1.0329	6.76	1.32	
659	148	Shell-Thick	INVSLE	-1.8213	-0.9259	6.98	1.32	

659	148	Shell-Thick	INVSLE	-3.6375	-1.7192	3.06	-0.81
659	148	Shell-Thick	INVSLE	-3.3694	-1.5455	2.99	-0.81
659	148	Shell-Thick	INVSLE	-4.1643	-1.8140	2.99	-0.75
659	148	Shell-Thick	INVSLE	-4.4614	-1.9684	3.06	-0.75
659	148	Shell-Thick	INVSLU	-1.9740	-1.0833	11.53	3.37
659	148	Shell-Thick	INVSLU	-1.9099	-1.2229	11.14	3.37
659	148	Shell-Thick	INVSLU	-2.3873	-1.3945	11.14	3.71
659	148	Shell-Thick	INVSLU	-2.4588	-1.2500	11.53	3.71
659	148	Shell-Thick	INVSLU	-6.1600	-2.7823	4.13	-1.10
659	148	Shell-Thick	INVSLU	-5.6361	-2.2872	4.04	-1.10
659	148	Shell-Thick	INVSLU	-6.9427	-2.7198	4.04	-1.02
659	148	Shell-Thick	INVSLU	-7.5228	-3.1773	4.13	-1.02
660	149	Shell-Thick	INVSLE	-1.7153	-0.9078	5.94	1.30
660	149	Shell-Thick	INVSLE	-1.6412	-1.0044	5.75	1.30
660	149	Shell-Thick	INVSLE	-1.9423	-1.1130	5.75	1.47
660	149	Shell-Thick	INVSLE	-2.0208	-1.0134	5.94	1.47
660	149	Shell-Thick	INVSLE	-4.2616	-1.9446	2.61	-0.76
660	149	Shell-Thick	INVSLE	-3.9289	-1.7508	2.54	-0.76
660	149	Shell-Thick	INVSLE	-4.6050	-1.9786	2.54	-0.70
660	149	Shell-Thick	INVSLE	-4.9618	-2.1564	2.61	-0.70
660	149	Shell-Thick	INVSLU	-2.3157	-1.2255	9.81	3.68
660	149	Shell-Thick	INVSLU	-2.2157	-1.3560	9.46	3.68
660	149	Shell-Thick	INVSLU	-2.6221	-1.5026	9.46	3.98
660	149	Shell-Thick	INVSLU	-2.7280	-1.3681	9.81	3.98
660	149	Shell-Thick	INVSLU	-7.2143	-3.1469	3.52	-1.02
660	149	Shell-Thick	INVSLU	-6.5816	-2.6162	3.43	-1.02
660	149	Shell-Thick	INVSLU	-7.6927	-2.9823	3.43	-0.95
660	149	Shell-Thick	INVSLU	-8.3722	-3.4817	3.52	-0.95
661	150	Shell-Thick	INVSLE	-1.9234	-0.9971	4.93	1.45
661	150	Shell-Thick	INVSLE	-1.8301	-1.0875	4.76	1.45
661	150	Shell-Thick	INVSLE	-2.0799	-1.1794	4.76	1.60
661	150	Shell-Thick	INVSLE	-2.1770	-1.0865	4.93	1.60
661	150	Shell-Thick	INVSLE	-4.7737	-2.1336	2.17	-0.71
661	150	Shell-Thick	INVSLE	-4.3966	-1.9221	2.11	-0.71
661	150	Shell-Thick	INVSLE	-4.9574	-2.1153	2.11	-0.66
661	150	Shell-Thick	INVSLE	-5.3548	-2.3133	2.17	-0.66
661	150	Shell-Thick	INVSLU	-2.5966	-1.3460	8.14	3.95
661	150	Shell-Thick	INVSLU	-2.4706	-1.4681	7.84	3.95
661	150	Shell-Thick	INVSLU	-2.8079	-1.5922	7.84	4.21
661	150	Shell-Thick	INVSLU	-2.9389	-1.4668	8.14	4.21
661	150	Shell-Thick	INVSLU	-8.0789	-3.4515	2.92	-0.95
661	150	Shell-Thick	INVSLU	-7.3728	-2.8899	2.85	-0.95
661	150	Shell-Thick	INVSLU	-8.2942	-3.2006	2.85	-0.89
661	150	Shell-Thick	INVSLU	-9.0398	-3.7358	2.92	-0.89
662	151	Shell-Thick	INVSLE	-2.0941	-1.0724	3.95	1.58
662	151	Shell-Thick	INVSLE	-1.9820	-1.1574	3.81	1.58
662	151	Shell-Thick	INVSLE	-2.1822	-1.2310	3.81	1.70
662	151	Shell-Thick	INVSLE	-2.2971	-1.1441	3.95	1.70
662	151	Shell-Thick	INVSLE	-5.1942	-2.2927	1.74	-0.66
662	151	Shell-Thick	INVSLE	-4.7722	-2.0667	1.69	-0.66
662	151	Shell-Thick	INVSLE	-5.2213	-2.2206	1.69	-0.62
662	151	Shell-Thick	INVSLE	-5.6593	-2.4361	1.74	-0.62
662	151	Shell-Thick	INVSLU	-2.8270	-1.4477	6.52	4.18
662	151	Shell-Thick	INVSLU	-2.6757	-1.5625	6.28	4.18
662	151	Shell-Thick	INVSLU	-2.9459	-1.6619	6.28	4.39
662	151	Shell-Thick	INVSLU	-3.1011	-1.5445	6.52	4.39
662	151	Shell-Thick	INVSLU	-8.7892	-3.7079	2.34	-0.89
662	151	Shell-Thick	INVSLU	-8.0077	-3.1211	2.28	-0.89
662	151	Shell-Thick	INVSLU	-8.7455	-3.3682	2.28	-0.84
662	151	Shell-Thick	INVSLU	-9.5581	-3.9343	2.34	-0.84
663	152	Shell-Thick	INVSLE	-2.2284	-1.1325	2.99	1.69
663	152	Shell-Thick	INVSLE	-2.1037	-1.2131	2.89	1.69
663	152	Shell-Thick	INVSLE	-2.2552	-1.2696	2.89	1.78
663	152	Shell-Thick	INVSLE	-2.3821	-1.1876	2.99	1.78
663	152	Shell-Thick	INVSLE	-5.5239	-2.4188	1.31	-0.62
663	152	Shell-Thick	INVSLE	-5.0730	-2.1812	1.28	-0.62
663	152	Shell-Thick	INVSLE	-5.4129	-2.2997	1.28	-0.59
663	152	Shell-Thick	INVSLE	-5.8760	-2.5292	1.31	-0.59
663	152	Shell-Thick	INVSLU	-3.0083	-1.5289	4.93	4.37
663	152	Shell-Thick	INVSLU	-2.8400	-1.6377	4.75	4.37
663	152	Shell-Thick	INVSLU	-3.0446	-1.7140	4.75	4.53
663	152	Shell-Thick	INVSLU	-3.2158	-1.6032	4.93	4.53
663	152	Shell-Thick	INVSLU	-9.3456	-3.9104	1.77	-0.84
663	152	Shell-Thick	INVSLU	-8.5162	-3.3038	1.72	-0.84
663	152	Shell-Thick	INVSLU	-9.0746	-3.4941	1.72	-0.79
663	152	Shell-Thick	INVSLU	-9.9276	-4.0849	1.77	-0.79
664	153	Shell-Thick	INVSLE	-2.3313	-1.1789	2.05	1.78
664	153	Shell-Thick	INVSLE	-2.1955	-1.2562	1.98	1.78

664	153	Shell-Thick	INVSLE	-2.2994	-1.2948	1.98	1.84
664	153	Shell-Thick	INVSLE	-2.4366	-1.2165	2.05	1.84
664	153	Shell-Thick	INVSLE	-5.7763	-2.5159	0.90	-0.59
664	153	Shell-Thick	INVSLE	-5.2984	-2.2701	0.87	-0.59
664	153	Shell-Thick	INVSLE	-5.5313	-2.3506	0.87	-0.57
664	153	Shell-Thick	INVSLE	-6.0173	-2.5910	0.90	-0.57
664	153	Shell-Thick	INVSLU	-3.1472	-1.5915	3.38	4.52
664	153	Shell-Thick	INVSLU	-2.9639	-1.6959	3.25	4.52
664	153	Shell-Thick	INVSLU	-3.1042	-1.7480	3.25	4.63
664	153	Shell-Thick	INVSLU	-3.2894	-1.6423	3.38	4.63
664	153	Shell-Thick	INVSLU	-9.7712	-4.0663	1.22	-0.80
664	153	Shell-Thick	INVSLU	-8.8965	-3.4458	1.18	-0.80
664	153	Shell-Thick	INVSLU	-9.2790	-3.5750	1.18	-0.77
664	153	Shell-Thick	INVSLU	-10.1697	-4.1849	1.22	-0.77
665	154	Shell-Thick	INVSLE	-2.4031	-1.2109	1.12	1.83
665	154	Shell-Thick	INVSLE	-2.2618	-1.2862	1.08	1.83
665	154	Shell-Thick	INVSLE	-2.3185	-1.3074	1.08	1.87
665	154	Shell-Thick	INVSLE	-2.4606	-1.2316	1.12	1.87
665	154	Shell-Thick	INVSLE	-5.9507	-2.5823	0.49	-0.57
665	154	Shell-Thick	INVSLE	-5.4597	-2.3317	0.48	-0.57
665	154	Shell-Thick	INVSLE	-5.5869	-2.3761	0.48	-0.56
665	154	Shell-Thick	INVSLE	-6.0823	-2.6237	0.49	-0.56
665	154	Shell-Thick	INVSLU	-3.2442	-1.6347	1.85	4.62
665	154	Shell-Thick	INVSLU	-3.0534	-1.7364	1.78	4.62
665	154	Shell-Thick	INVSLU	-3.1300	-1.7650	1.78	4.68
665	154	Shell-Thick	INVSLU	-3.3219	-1.6626	1.85	4.68
665	154	Shell-Thick	INVSLU	-10.0645	-4.1725	0.66	-0.77
665	154	Shell-Thick	INVSLU	-9.1681	-3.5441	0.64	-0.77
665	154	Shell-Thick	INVSLU	-9.3770	-3.6155	0.64	-0.75
665	154	Shell-Thick	INVSLU	-10.2821	-4.2381	0.66	-0.75
666	155	Shell-Thick	INVSLE	-2.4470	-1.2292	0.20	1.87
666	155	Shell-Thick	INVSLE	-2.3019	-1.3038	0.19	1.87
666	155	Shell-Thick	INVSLE	-2.3119	-1.3074	0.19	1.87
666	155	Shell-Thick	INVSLE	-2.4570	-1.2327	0.20	1.87
666	155	Shell-Thick	INVSLE	-6.0555	-2.6199	8.628E-02	-0.56
666	155	Shell-Thick	INVSLE	-5.5544	-2.3681	8.371E-02	-0.56
666	155	Shell-Thick	INVSLE	-5.5768	-2.3757	8.371E-02	-0.55
666	155	Shell-Thick	INVSLE	-6.0785	-2.6271	8.628E-02	-0.55
666	155	Shell-Thick	INVSLU	-3.3034	-1.6594	0.32	4.68
666	155	Shell-Thick	INVSLU	-3.1076	-1.7601	0.31	4.68
666	155	Shell-Thick	INVSLU	-3.1210	-1.7650	0.31	4.69
666	155	Shell-Thick	INVSLU	-3.3170	-1.6642	0.32	4.69
666	155	Shell-Thick	INVSLU	-10.2401	-4.2327	0.12	-0.75
666	155	Shell-Thick	INVSLU	-9.3261	-3.6023	0.11	-0.75
666	155	Shell-Thick	INVSLU	-9.3628	-3.6145	0.11	-0.75
666	155	Shell-Thick	INVSLU	-10.2780	-4.2440	0.12	-0.75
667	156	Shell-Thick	INVSLE	-2.4619	-1.2336	-0.32	1.88
667	156	Shell-Thick	INVSLE	-2.3184	-1.3088	-0.31	1.88
667	156	Shell-Thick	INVSLE	-2.2817	-1.2948	-0.31	1.85
667	156	Shell-Thick	INVSLE	-2.4245	-1.2200	-0.32	1.85
667	156	Shell-Thick	INVSLE	-6.0876	-2.6283	-0.73	-0.55
667	156	Shell-Thick	INVSLE	-5.5895	-2.3788	-0.70	-0.55
667	156	Shell-Thick	INVSLE	-5.5072	-2.3495	-0.70	-0.56
667	156	Shell-Thick	INVSLE	-6.0020	-2.6011	-0.73	-0.56
667	156	Shell-Thick	INVSLU	-3.3235	-1.6653	-0.43	4.69
667	156	Shell-Thick	INVSLU	-3.1298	-1.7669	-0.42	4.69
667	156	Shell-Thick	INVSLU	-3.0802	-1.7480	-0.42	4.65
667	156	Shell-Thick	INVSLU	-3.2731	-1.6470	-0.43	4.65
667	156	Shell-Thick	INVSLU	-10.2920	-4.2457	-1.20	-0.75
667	156	Shell-Thick	INVSLU	-9.3827	-3.6196	-1.15	-0.75
667	156	Shell-Thick	INVSLU	-9.2476	-3.5725	-1.15	-0.76
667	156	Shell-Thick	INVSLU	-10.1506	-4.2028	-1.20	-0.76
668	157	Shell-Thick	INVSLE	-2.4494	-1.2241	-0.73	1.86
668	157	Shell-Thick	INVSLE	-2.3093	-1.3012	-0.71	1.86
668	157	Shell-Thick	INVSLE	-2.2256	-1.2699	-0.71	1.80
668	157	Shell-Thick	INVSLE	-2.3644	-1.1936	-0.73	1.80
668	157	Shell-Thick	INVSLE	-6.0514	-2.6073	-1.65	-0.56
668	157	Shell-Thick	INVSLE	-5.5593	-2.3636	-1.59	-0.56
668	157	Shell-Thick	INVSLE	-5.3717	-2.2982	-1.59	-0.58
668	157	Shell-Thick	INVSLE	-5.8568	-2.5466	-1.65	-0.58
668	157	Shell-Thick	INVSLU	-3.3066	-1.6525	-0.98	4.66
668	157	Shell-Thick	INVSLU	-3.1175	-1.7566	-0.95	4.66
668	157	Shell-Thick	INVSLU	-3.0046	-1.7143	-0.95	4.57
668	157	Shell-Thick	INVSLU	-3.1919	-1.6113	-0.98	4.57
668	157	Shell-Thick	INVSLU	-10.2284	-4.2114	-2.72	-0.76
668	157	Shell-Thick	INVSLU	-9.3281	-3.5955	-2.62	-0.76
668	157	Shell-Thick	INVSLU	-9.0200	-3.4907	-2.62	-0.78
668	157	Shell-Thick	INVSLU	-9.9068	-4.1156	-2.72	-0.78

669	158	Shell-Thick	INVSLE	-2.4069	-1.2008	-1.14	1.81
669	158	Shell-Thick	INVSLE	-2.2758	-1.2812	-1.11	1.81
669	158	Shell-Thick	INVSLE	-2.1447	-1.2319	-1.11	1.73
669	158	Shell-Thick	INVSLE	-2.2738	-1.1529	-1.14	1.73
669	158	Shell-Thick	INVSLE	-5.9401	-2.5575	-2.59	-0.58
669	158	Shell-Thick	INVSLE	-5.4677	-2.3231	-2.50	-0.58
669	158	Shell-Thick	INVSLE	-5.1738	-2.2198	-2.50	-0.61
669	158	Shell-Thick	INVSLE	-5.6352	-2.4616	-2.59	-0.61
669	158	Shell-Thick	INVSLU	-3.2493	-1.6211	-1.54	4.58
669	158	Shell-Thick	INVSLU	-3.0723	-1.7296	-1.49	4.58
669	158	Shell-Thick	INVSLU	-2.8954	-1.6630	-1.49	4.44
669	158	Shell-Thick	INVSLU	-3.0696	-1.5564	-1.54	4.44
669	158	Shell-Thick	INVSLU	-10.0372	-4.1308	-4.27	-0.78
669	158	Shell-Thick	INVSLU	-9.1691	-3.5314	-4.11	-0.78
669	158	Shell-Thick	INVSLU	-8.6864	-3.3655	-4.11	-0.82
669	158	Shell-Thick	INVSLU	-9.5332	-3.9791	-4.27	-0.82
670	159	Shell-Thick	INVSLE	-2.3348	-1.1630	-1.56	1.74
670	159	Shell-Thick	INVSLE	-2.2141	-1.2478	-1.51	1.74
670	159	Shell-Thick	INVSLE	-2.0349	-1.1814	-1.51	1.63
670	159	Shell-Thick	INVSLE	-2.1528	-1.0985	-1.56	1.63
670	159	Shell-Thick	INVSLE	-5.7554	-2.4767	-3.54	-0.60
670	159	Shell-Thick	INVSLE	-5.3047	-2.2549	-3.42	-0.60
670	159	Shell-Thick	INVSLE	-4.9026	-2.1162	-3.42	-0.64
670	159	Shell-Thick	INVSLE	-5.3386	-2.3479	-3.54	-0.64
670	159	Shell-Thick	INVSLU	-3.1520	-1.5701	-2.10	4.46
670	159	Shell-Thick	INVSLU	-2.9890	-1.6845	-2.04	4.46
670	159	Shell-Thick	INVSLU	-2.7471	-1.5949	-2.04	4.27
670	159	Shell-Thick	INVSLU	-2.9063	-1.4830	-2.10	4.27
670	159	Shell-Thick	INVSLU	-9.7219	-4.0001	-5.84	-0.82
670	159	Shell-Thick	INVSLU	-8.8886	-3.4227	-5.62	-0.82
670	159	Shell-Thick	INVSLU	-8.2281	-3.2002	-5.62	-0.87
670	159	Shell-Thick	INVSLU	-9.0328	-3.7967	-5.84	-0.87
671	160	Shell-Thick	INVSLE	-2.2287	-1.1114	-1.98	1.64
671	160	Shell-Thick	INVSLE	-2.1245	-1.2016	-1.93	1.64
671	160	Shell-Thick	INVSLE	-1.8961	-1.1169	-1.93	1.51
671	160	Shell-Thick	INVSLE	-1.9967	-1.0290	-1.98	1.51
671	160	Shell-Thick	INVSLE	-5.4855	-2.3666	-4.51	-0.64
671	160	Shell-Thick	INVSLE	-5.0722	-2.1608	-4.36	-0.64
671	160	Shell-Thick	INVSLE	-4.5597	-1.9829	-4.36	-0.69
671	160	Shell-Thick	INVSLE	-4.9539	-2.2013	-4.51	-0.69
671	160	Shell-Thick	INVSLU	-3.0087	-1.5003	-2.67	4.29
671	160	Shell-Thick	INVSLU	-2.8680	-1.6222	-2.60	4.29
671	160	Shell-Thick	INVSLU	-2.5597	-1.5079	-2.60	4.06
671	160	Shell-Thick	INVSLU	-2.6955	-1.3892	-2.67	4.06
671	160	Shell-Thick	INVSLU	-9.2622	-3.8221	-7.44	-0.86
671	160	Shell-Thick	INVSLU	-8.4905	-3.2732	-7.17	-0.86
671	160	Shell-Thick	INVSLU	-7.6484	-2.9872	-7.17	-0.93
671	160	Shell-Thick	INVSLU	-8.3832	-3.5608	-7.44	-0.93
672	161	Shell-Thick	INVSLE	-2.0879	-1.0443	-2.42	1.53
672	161	Shell-Thick	INVSLE	-2.0008	-1.1409	-2.36	1.53
672	161	Shell-Thick	INVSLE	-1.7218	-1.0395	-2.36	1.37
672	161	Shell-Thick	INVSLE	-1.8047	-0.9457	-2.42	1.37
672	161	Shell-Thick	INVSLE	-5.1308	-2.2227	-5.51	-0.68
672	161	Shell-Thick	INVSLE	-4.7543	-2.0359	-5.32	-0.68
672	161	Shell-Thick	INVSLE	-4.1280	-1.8235	-5.32	-0.73
672	161	Shell-Thick	INVSLE	-4.4816	-2.0255	-5.51	-0.73
672	161	Shell-Thick	INVSLU	-2.8187	-1.4098	-3.26	4.09
672	161	Shell-Thick	INVSLU	-2.7011	-1.5402	-3.18	4.09
672	161	Shell-Thick	INVSLU	-2.3245	-1.4034	-3.18	3.80
672	161	Shell-Thick	INVSLU	-2.4364	-1.2768	-3.26	3.80
672	161	Shell-Thick	INVSLU	-8.6593	-3.5893	-9.09	-0.92
672	161	Shell-Thick	INVSLU	-7.9474	-3.0737	-8.76	-0.92
672	161	Shell-Thick	INVSLU	-6.9183	-2.7326	-8.76	-0.99
672	161	Shell-Thick	INVSLU	-7.5858	-3.2777	-9.09	-0.99
673	162	Shell-Thick	INVSLE	-1.9056	-0.9629	-2.86	1.38
673	162	Shell-Thick	INVSLE	-1.8428	-1.0667	-2.80	1.38
673	162	Shell-Thick	INVSLE	-1.5119	-0.9468	-2.80	1.20
673	162	Shell-Thick	INVSLE	-1.5694	-0.8464	-2.86	1.20
673	162	Shell-Thick	INVSLE	-4.6725	-2.0484	-6.53	-0.73
673	162	Shell-Thick	INVSLE	-4.3527	-1.8838	-6.33	-0.73
673	162	Shell-Thick	INVSLE	-3.6094	-1.6306	-6.33	-0.79
673	162	Shell-Thick	INVSLE	-3.9015	-1.8137	-6.53	-0.79
673	162	Shell-Thick	INVSLU	-2.5725	-1.2999	-3.87	3.84
673	162	Shell-Thick	INVSLU	-2.4878	-1.4401	-3.78	3.84
673	162	Shell-Thick	INVSLU	-2.0411	-1.2781	-3.78	3.51
673	162	Shell-Thick	INVSLU	-2.1187	-1.1427	-3.87	3.51
673	162	Shell-Thick	INVSLU	-7.8810	-3.3071	-10.79	-0.99
673	162	Shell-Thick	INVSLU	-7.2633	-2.8312	-10.41	-0.99

673	162	Shell-Thick	INVSLU	-6.0417	-2.4237	-10.41	-1.06
673	162	Shell-Thick	INVSLU	-6.6058	-2.9353	-10.79	-1.06
674	163	Shell-Thick	INVSLE	-1.6812	-0.8651	-3.32	1.22
674	163	Shell-Thick	INVSLE	-1.6411	-0.9763	-3.26	1.22
674	163	Shell-Thick	INVSLE	-1.2564	-0.8405	-3.26	1.02
674	163	Shell-Thick	INVSLE	-1.2906	-0.7332	-3.32	1.02
674	163	Shell-Thick	INVSLE	-4.1119	-1.8368	-7.59	-0.78
674	163	Shell-Thick	INVSLE	-3.8427	-1.6963	-7.36	-0.78
674	163	Shell-Thick	INVSLE	-2.9777	-1.4101	-7.36	-0.84
674	163	Shell-Thick	INVSLE	-3.2153	-1.5716	-7.59	-0.84
674	163	Shell-Thick	INVSLU	-2.2697	-1.1679	-4.49	3.55
674	163	Shell-Thick	INVSLU	-2.2155	-1.3180	-4.40	3.55
674	163	Shell-Thick	INVSLU	-1.6962	-1.1347	-4.40	3.18
674	163	Shell-Thick	INVSLU	-1.7423	-0.9898	-4.49	3.18
674	163	Shell-Thick	INVSLU	-6.9305	-2.9635	-12.54	-1.06
674	163	Shell-Thick	INVSLU	-6.3957	-2.5312	-12.13	-1.06
674	163	Shell-Thick	INVSLU	-4.9737	-2.0707	-12.13	-1.14
674	163	Shell-Thick	INVSLU	-5.4472	-2.5438	-12.54	-1.14
675	164	Shell-Thick	INVSLE	-1.4040	-0.7527	-3.80	1.04
675	164	Shell-Thick	INVSLE	-1.3961	-0.8716	-3.74	1.04
675	164	Shell-Thick	INVSLE	-0.9559	-0.7173	-3.74	0.83
675	164	Shell-Thick	INVSLE	-0.9566	-0.6031	-3.80	0.83
675	164	Shell-Thick	INVSLE	-3.4198	-1.5931	-8.69	-0.84
675	164	Shell-Thick	INVSLE	-3.2289	-1.4798	-8.45	-0.84
675	164	Shell-Thick	INVSLE	-2.2381	-1.1516	-8.45	-0.90
675	164	Shell-Thick	INVSLE	-2.3917	-1.2897	-8.69	-0.90
675	164	Shell-Thick	INVSLU	-1.8954	-1.0161	-5.13	3.23
675	164	Shell-Thick	INVSLU	-1.8848	-1.1767	-5.04	3.23
675	164	Shell-Thick	INVSLU	-1.2905	-0.9683	-5.04	2.82
675	164	Shell-Thick	INVSLU	-1.2914	-0.8142	-5.13	2.82
675	164	Shell-Thick	INVSLU	-5.7573	-2.5677	-14.37	-1.13
675	164	Shell-Thick	INVSLU	-5.3542	-2.1849	-13.91	-1.13
675	164	Shell-Thick	INVSLU	-3.7249	-1.6552	-13.91	-1.21
675	164	Shell-Thick	INVSLU	-4.0559	-2.0860	-14.37	-1.21
676	165	Shell-Thick	INVSLE	-1.0755	-0.6229	-4.29	0.85
676	165	Shell-Thick	INVSLE	-1.0932	-0.7488	-4.23	0.85
676	165	Shell-Thick	INVSLE	-0.5951	-0.5799	-4.23	0.63
676	165	Shell-Thick	INVSLE	-0.5696	-0.4593	-4.29	0.63
676	165	Shell-Thick	INVSLE	-2.6032	-1.3081	-9.84	-0.89
676	165	Shell-Thick	INVSLE	-2.4726	-1.2224	-9.58	-0.89
676	165	Shell-Thick	INVSLE	-1.3499	-0.8634	-9.58	-0.94
676	165	Shell-Thick	INVSLE	-1.4393	-0.9766	-9.84	-0.94
676	165	Shell-Thick	INVSLU	-1.4520	-0.8409	-5.79	2.88
676	165	Shell-Thick	INVSLU	-1.4759	-1.0108	-5.71	2.88
676	165	Shell-Thick	INVSLU	-0.8034	-0.7829	-5.71	2.44
676	165	Shell-Thick	INVSLU	-0.7690	-0.6201	-5.79	2.44
676	165	Shell-Thick	INVSLU	-4.3748	-2.1027	-16.27	-1.20
676	165	Shell-Thick	INVSLU	-4.0722	-1.7716	-15.78	-1.20
676	165	Shell-Thick	INVSLU	-2.2252	-1.2081	-15.78	-1.27
676	165	Shell-Thick	INVSLU	-2.4479	-1.5765	-16.27	-1.27
677	166	Shell-Thick	INVSLE	-0.6786	-0.4785	-4.80	0.65
677	166	Shell-Thick	INVSLE	-0.7356	-0.6107	-4.75	0.65
677	166	Shell-Thick	INVSLE	-0.1779	-0.4243	-4.75	0.42
677	166	Shell-Thick	INVSLE	-0.1115	-0.2985	-4.80	0.42
677	166	Shell-Thick	INVSLE	-1.6149	-0.9892	-11.03	-0.94
677	166	Shell-Thick	INVSLE	-1.5878	-0.9335	-10.76	-0.94
677	166	Shell-Thick	INVSLE	-0.3288	-0.5330	-10.76	-0.98
677	166	Shell-Thick	INVSLE	-0.3077	-0.6210	-11.03	-0.98
677	166	Shell-Thick	INVSLU	-0.9162	-0.6459	-6.48	2.50
677	166	Shell-Thick	INVSLU	-0.9931	-0.8244	-6.42	2.50
677	166	Shell-Thick	INVSLU	-0.2402	-0.5728	-6.42	2.04
677	166	Shell-Thick	INVSLU	-0.1505	-0.4029	-6.48	2.04
677	166	Shell-Thick	INVSLU	-2.7007	-1.5815	-18.25	-1.27
677	166	Shell-Thick	INVSLU	-2.5759	-1.3086	-17.73	-1.27
677	166	Shell-Thick	INVSLU	-0.5038	-0.7358	-17.73	-1.32
677	166	Shell-Thick	INVSLU	-0.5353	-0.9950	-18.25	-1.32
678	167	Shell-Thick	INVSLE	-0.2210	-0.3165	-5.32	0.45
678	167	Shell-Thick	INVSLE	-0.3002	-0.4526	-5.29	0.45
678	167	Shell-Thick	INVSLE	0.8910	-0.1697	-5.29	0.22
678	167	Shell-Thick	INVSLE	0.9762	-0.1241	-5.32	0.22
678	167	Shell-Thick	INVSLE	-0.4789	-0.6263	-12.26	-0.98
678	167	Shell-Thick	INVSLE	-0.5118	-0.5986	-12.00	-0.98
678	167	Shell-Thick	INVSLE	0.3199	-0.2535	-12.00	-1.00
678	167	Shell-Thick	INVSLE	0.4091	-0.2323	-12.26	-1.00
678	167	Shell-Thick	INVSLU	-0.2984	-0.4273	-7.18	2.10
678	167	Shell-Thick	INVSLU	-0.4053	-0.6110	-7.15	2.10
678	167	Shell-Thick	INVSLU	1.5533	-0.0726	-7.15	1.64
678	167	Shell-Thick	INVSLU	1.6338	-0.1676	-7.18	1.64

678	167	Shell-Thick	INVSLU	-0.7779	-0.9854	-20.31	-1.32	
678	167	Shell-Thick	INVSLU	-0.7571	-0.8300	-19.78	-1.32	
678	167	Shell-Thick	INVSLU	0.4319	-0.3423	-19.78	-1.35	
678	167	Shell-Thick	INVSLU	0.5522	-0.3578	-20.31	-1.35	
679	168	Shell-Thick	INVSLE	0.8880	-0.1398	-5.86	0.25	
679	168	Shell-Thick	INVSLE	0.7199	-0.2280	-5.86	0.25	
679	168	Shell-Thick	INVSLE	2.2702	0.2328	-5.86	2.906E-02	
679	168	Shell-Thick	INVSLE	2.5002	0.1934	-5.86	2.906E-02	
679	168	Shell-Thick	INVSLE	0.3265	-0.2260	-13.55	-1.00	
679	168	Shell-Thick	INVSLE	0.2029	-0.2778	-13.30	-1.00	
679	168	Shell-Thick	INVSLE	0.8867	-0.0657	-13.30	-1.00	
679	168	Shell-Thick	INVSLE	1.0226	0.0642	-13.55	-1.00	
679	168	Shell-Thick	INVSLU	1.5391	-0.1887	-7.91	1.69	
679	168	Shell-Thick	INVSLU	1.3195	-0.1702	-7.91	1.69	
679	168	Shell-Thick	INVSLU	3.8746	0.5789	-7.91	1.22	
679	168	Shell-Thick	INVSLU	4.2137	0.3433	-7.91	1.22	
679	168	Shell-Thick	INVSLU	0.4408	-0.3259	-22.47	-1.35	
679	168	Shell-Thick	INVSLU	0.2739	-0.3751	-21.93	-1.35	
679	168	Shell-Thick	INVSLU	1.1971	-0.0887	-21.93	-1.34	
679	168	Shell-Thick	INVSLU	1.3805	0.0866	-22.47	-1.34	
680	169	Shell-Thick	INVSLE	2.4198	0.2119	-6.40	6.777E-02	
680	169	Shell-Thick	INVSLE	2.2099	0.1862	-6.45	6.777E-02	
680	169	Shell-Thick	INVSLE	3.9170	0.6781	-6.45	-0.12	
680	169	Shell-Thick	INVSLE	4.1927	0.6599	-6.40	-0.12	
680	169	Shell-Thick	INVSLE	0.9413	0.0510	-14.88	-0.99	
680	169	Shell-Thick	INVSLE	0.8112	-0.0839	-14.66	-0.99	
680	169	Shell-Thick	INVSLE	1.5618	0.1409	-14.66	-0.95	
680	169	Shell-Thick	INVSLE	1.7043	0.2675	-14.88	-0.95	
680	169	Shell-Thick	INVSLU	4.1344	0.3985	-8.65	1.30	
680	169	Shell-Thick	INVSLU	3.8319	0.4994	-8.71	1.30	
680	169	Shell-Thick	INVSLU	6.6482	1.3011	-8.71	0.84	
680	169	Shell-Thick	INVSLU	7.0783	1.1150	-8.65	0.84	
680	169	Shell-Thick	INVSLU	1.2707	0.0689	-24.72	-1.34	
680	169	Shell-Thick	INVSLU	1.0951	-0.1133	-24.19	-1.34	
680	169	Shell-Thick	INVSLU	2.1085	0.1902	-24.19	-1.29	
680	169	Shell-Thick	INVSLU	2.3008	0.3611	-24.72	-1.29	
681	170	Shell-Thick	INVSLE	4.2719	0.6989	-6.96	-9.629E-02	
681	170	Shell-Thick	INVSLE	3.8864	0.6489	-7.06	-9.629E-02	
681	170	Shell-Thick	INVSLE	5.7514	1.1216	-7.06	-0.25	
681	170	Shell-Thick	INVSLE	6.2170	1.1180	-6.96	-0.25	
681	170	Shell-Thick	INVSLE	1.6769	0.2595	-16.26	-0.95	
681	170	Shell-Thick	INVSLE	1.5030	0.1316	-16.09	-0.95	
681	170	Shell-Thick	INVSLE	2.3206	0.3499	-16.09	-0.87	
681	170	Shell-Thick	INVSLE	2.5103	0.4671	-16.26	-0.87	
681	170	Shell-Thick	INVSLU	7.2811	1.2084	-9.40	0.90	
681	170	Shell-Thick	INVSLU	6.6503	1.2487	-9.53	0.90	
681	170	Shell-Thick	INVSLU	9.7299	2.0165	-9.53	0.47	
681	170	Shell-Thick	INVSLU	10.5153	1.8728	-9.40	0.47	
681	170	Shell-Thick	INVSLU	2.2638	0.3503	-27.05	-1.29	
681	170	Shell-Thick	INVSLU	2.0290	0.1776	-26.56	-1.29	
681	170	Shell-Thick	INVSLU	3.1328	0.4723	-26.56	-1.17	
681	170	Shell-Thick	INVSLU	3.3889	0.6306	-27.05	-1.17	
682	171	Shell-Thick	INVSLE	14.0953	2.7126	21.39	-1.326E-02	
682	171	Shell-Thick	INVSLE	13.1616	2.7387	21.45	-1.326E-02	
682	171	Shell-Thick	INVSLE	10.7055	2.1967	21.45	-0.17	
682	171	Shell-Thick	INVSLE	11.5054	2.2603	21.39	-0.17	
682	171	Shell-Thick	INVSLE	5.8385	1.1555	9.28	-0.11	
682	171	Shell-Thick	INVSLE	5.6338	1.1390	9.68	-0.11	
682	171	Shell-Thick	INVSLE	4.5305	0.9020	9.68	-0.37	
682	171	Shell-Thick	INVSLE	4.7085	0.9366	9.28	-0.37	
682	171	Shell-Thick	INVSLU	23.6701	4.5183	35.44	-1.790E-02	
682	171	Shell-Thick	INVSLU	21.8910	4.5939	35.10	-1.790E-02	
682	171	Shell-Thick	INVSLU	17.8663	3.6980	35.10	6.814E-02	
682	171	Shell-Thick	INVSLU	19.3873	3.7953	35.44	6.814E-02	
682	171	Shell-Thick	INVSLU	7.8820	1.5599	12.53	-0.23	
682	171	Shell-Thick	INVSLU	7.6056	1.5376	13.07	-0.23	
682	171	Shell-Thick	INVSLU	6.1161	1.2176	13.07	-0.50	
682	171	Shell-Thick	INVSLU	6.3565	1.2644	12.53	-0.50	
683	172	Shell-Thick	INVSLE	11.3304	2.1869	19.77	-0.21	
683	172	Shell-Thick	INVSLE	10.5283	2.1996	19.70	-0.21	
683	172	Shell-Thick	INVSLE	8.2587	1.6302	19.70	-0.15	
683	172	Shell-Thick	INVSLE	8.9510	1.6912	19.77	-0.15	
683	172	Shell-Thick	INVSLE	4.6678	0.9355	8.61	-0.36	
683	172	Shell-Thick	INVSLE	4.4443	0.8777	8.89	-0.36	
683	172	Shell-Thick	INVSLE	3.4243	0.6211	8.89	-0.61	
683	172	Shell-Thick	INVSLE	3.6267	0.6932	8.61	-0.61	
683	172	Shell-Thick	INVSLU	19.0566	3.6381	32.72	-3.687E-02	
683	172	Shell-Thick	INVSLU	17.5835	3.7325	32.24	-3.687E-02	

683	172	Shell-Thick	INVSLU	13.8649	2.8005	32.24	0.38	
683	172	Shell-Thick	INVSLU	15.1252	2.8485	32.72	0.38	
683	172	Shell-Thick	INVSLU	6.3015	1.2629	11.62	-0.49	
683	172	Shell-Thick	INVSLU	5.9998	1.1848	12.00	-0.49	
683	172	Shell-Thick	INVSLU	4.6228	0.8385	12.00	-0.82	
683	172	Shell-Thick	INVSLU	4.8961	0.9358	11.62	-0.82	
684	173	Shell-Thick	INVSLE	8.8408	1.6302	18.20	-0.19	
684	173	Shell-Thick	INVSLE	8.1501	1.6475	18.03	-0.19	
684	173	Shell-Thick	INVSLE	6.0671	1.1491	18.03	-4.861E-02	
684	173	Shell-Thick	INVSLE	6.6573	1.1990	18.20	-4.861E-02	
684	173	Shell-Thick	INVSLE	3.6225	0.6959	7.95	-0.60	
684	173	Shell-Thick	INVSLE	3.3918	0.6110	8.13	-0.60	
684	173	Shell-Thick	INVSLE	2.4546	0.3721	8.13	-0.76	
684	173	Shell-Thick	INVSLE	2.6654	0.4705	7.95	-0.76	
684	173	Shell-Thick	INVSLU	14.8921	2.7135	30.07	0.28	
684	173	Shell-Thick	INVSLU	13.6680	2.8494	29.51	0.28	
684	173	Shell-Thick	INVSLU	10.2562	2.0501	29.51	0.78	
684	173	Shell-Thick	INVSLU	11.2865	2.0438	30.07	0.78	
684	173	Shell-Thick	INVSLU	4.8904	0.9395	10.74	-0.81	
684	173	Shell-Thick	INVSLU	4.5789	0.8249	10.98	-0.81	
684	173	Shell-Thick	INVSLU	3.3137	0.5024	10.98	-1.03	
684	173	Shell-Thick	INVSLU	3.5983	0.6352	10.74	-1.03	
685	174	Shell-Thick	INVSLE	6.5678	1.1507	16.69	-8.422E-02	
685	174	Shell-Thick	INVSLE	6.0740	1.1809	16.45	-8.422E-02	
685	174	Shell-Thick	INVSLE	4.1631	0.6486	16.45	0.13	
685	174	Shell-Thick	INVSLE	4.5752	0.6730	16.69	0.13	
685	174	Shell-Thick	INVSLE	2.6794	0.4770	7.32	-0.76	
685	174	Shell-Thick	INVSLE	2.4851	0.3745	7.42	-0.76	
685	174	Shell-Thick	INVSLE	1.6252	0.1202	7.42	-0.84	
685	174	Shell-Thick	INVSLE	1.8043	0.2329	7.32	-0.84	
685	174	Shell-Thick	INVSLU	11.0769	1.9319	27.56	0.70	
685	174	Shell-Thick	INVSLU	10.2357	2.1159	26.93	0.70	
685	174	Shell-Thick	INVSLU	7.1061	1.2612	26.93	1.25	
685	174	Shell-Thick	INVSLU	7.7885	1.1834	27.56	1.25	
685	174	Shell-Thick	INVSLU	3.6172	0.6440	9.88	-1.02	
685	174	Shell-Thick	INVSLU	3.3549	0.5056	10.01	-1.02	
685	174	Shell-Thick	INVSLU	2.1940	0.1623	10.01	-1.14	
685	174	Shell-Thick	INVSLU	2.4358	0.3145	9.88	-1.14	
686	175	Shell-Thick	INVSLE	4.6170	0.6434	15.24	8.356E-02	
686	175	Shell-Thick	INVSLE	4.2144	0.6968	14.95	8.356E-02	
686	175	Shell-Thick	INVSLE	2.4735	0.2013	14.95	0.34	
686	175	Shell-Thick	INVSLE	2.8017	0.1978	15.24	0.34	
686	175	Shell-Thick	INVSLE	1.8704	0.2450	6.70	-0.85	
686	175	Shell-Thick	INVSLE	1.6883	0.1340	6.73	-0.85	
686	175	Shell-Thick	INVSLE	0.9042	-0.1079	6.73	-0.88	
686	175	Shell-Thick	INVSLE	1.0723	0.0125	6.70	-0.88	
686	175	Shell-Thick	INVSLU	7.8021	1.1055	25.15	1.16	
686	175	Shell-Thick	INVSLU	7.1438	1.3493	24.48	1.16	
686	175	Shell-Thick	INVSLU	4.2933	0.5599	24.48	1.75	
686	175	Shell-Thick	INVSLU	4.8072	0.4125	25.15	1.75	
686	175	Shell-Thick	INVSLU	2.5251	0.3307	9.04	-1.14	
686	175	Shell-Thick	INVSLU	2.2792	0.1809	9.09	-1.14	
686	175	Shell-Thick	INVSLU	1.2207	-0.1457	9.09	-1.18	
686	175	Shell-Thick	INVSLU	1.4476	0.0169	9.04	-1.18	
687	176	Shell-Thick	INVSLE	2.8664	0.1819	13.86	0.31	
687	176	Shell-Thick	INVSLE	2.6357	0.2625	13.54	0.31	
687	176	Shell-Thick	INVSLE	1.0530	-0.2265	13.54	0.59	
687	176	Shell-Thick	INVSLE	1.2225	-0.2029	13.86	0.59	
687	176	Shell-Thick	INVSLE	1.1504	0.0282	6.10	-0.88	
687	176	Shell-Thick	INVSLE	1.0169	-0.0854	6.09	-0.88	
687	176	Shell-Thick	INVSLE	0.3040	-0.3237	6.09	-0.87	
687	176	Shell-Thick	INVSLE	0.4268	-0.2663	6.10	-0.87	
687	176	Shell-Thick	INVSLU	4.8563	0.3602	22.85	1.68	
687	176	Shell-Thick	INVSLU	4.5130	0.6660	22.17	1.68	
687	176	Shell-Thick	INVSLU	1.9215	-0.1137	22.17	2.28	
687	176	Shell-Thick	INVSLU	2.1452	-0.2739	22.85	2.28	
687	176	Shell-Thick	INVSLU	1.5530	0.0380	8.24	-1.18	
687	176	Shell-Thick	INVSLU	1.3727	-0.1153	8.22	-1.18	
687	176	Shell-Thick	INVSLU	0.4104	-0.4370	8.22	-1.17	
687	176	Shell-Thick	INVSLU	0.5761	-0.3689	8.24	-1.17	
688	177	Shell-Thick	INVSLE	1.3893	-0.1835	12.54	0.55	
688	177	Shell-Thick	INVSLE	1.2403	-0.1546	12.20	0.55	
688	177	Shell-Thick	INVSLE	-0.1888	-0.5193	12.20	0.85	
688	177	Shell-Thick	INVSLE	-0.0950	-0.4017	12.54	0.85	
688	177	Shell-Thick	INVSLE	0.5415	-0.2673	5.53	-0.87	
688	177	Shell-Thick	INVSLE	0.4322	-0.2946	5.49	-0.87	
688	177	Shell-Thick	INVSLE	-0.2117	-0.6143	5.49	-0.83	
688	177	Shell-Thick	INVSLE	-0.1121	-0.6900	5.53	-0.83	

688	177	Shell-Thick	INVSLU	2.3723	-0.2477	20.67	2.20
688	177	Shell-Thick	INVSLU	2.1773	0.0076	19.98	2.20
688	177	Shell-Thick	INVSLU	-0.1622	-0.7011	19.98	2.80
688	177	Shell-Thick	INVSLU	-0.0753	-0.5424	20.67	2.80
688	177	Shell-Thick	INVSLU	0.7311	-0.3734	7.47	-1.18
688	177	Shell-Thick	INVSLU	0.5835	-0.3976	7.40	-1.18
688	177	Shell-Thick	INVSLU	-0.2858	-0.8435	7.40	-1.12
688	177	Shell-Thick	INVSLU	-0.1513	-1.0243	7.47	-1.12
689	178	Shell-Thick	INVSLE	0.0842	-0.3803	11.28	0.82
689	178	Shell-Thick	INVSLE	0.0694	-0.4858	10.93	0.82
689	178	Shell-Thick	INVSLE	-0.6348	-0.6951	10.93	1.12
689	178	Shell-Thick	INVSLE	-0.5793	-0.5848	11.28	1.12
689	178	Shell-Thick	INVSLE	0.0069	-0.6813	4.98	-0.83
689	178	Shell-Thick	INVSLE	-0.0559	-0.5356	4.91	-0.83
689	178	Shell-Thick	INVSLE	-1.2155	-0.9623	4.91	-0.77
689	178	Shell-Thick	INVSLE	-1.2465	-1.0775	4.98	-0.77
689	178	Shell-Thick	INVSLU	0.1737	-0.5135	18.58	2.74
689	178	Shell-Thick	INVSLU	0.2147	-0.5933	17.91	2.74
689	178	Shell-Thick	INVSLU	-0.8570	-0.9384	17.91	3.32
689	178	Shell-Thick	INVSLU	-0.7821	-0.7895	18.58	3.32
689	178	Shell-Thick	INVSLU	0.0094	-1.0302	6.72	-1.12
689	178	Shell-Thick	INVSLU	-0.0755	-0.7305	6.63	-1.12
689	178	Shell-Thick	INVSLU	-1.8890	-1.3391	6.63	-1.04
689	178	Shell-Thick	INVSLU	-2.0202	-1.6488	6.72	-1.04
690	179	Shell-Thick	INVSLE	-0.4436	-0.5619	10.07	1.09
690	179	Shell-Thick	INVSLE	-0.4766	-0.6592	9.73	1.09
690	179	Shell-Thick	INVSLE	-0.9929	-0.8522	9.73	1.38
690	179	Shell-Thick	INVSLE	-0.9664	-0.7506	10.07	1.38
690	179	Shell-Thick	INVSLE	-1.0147	-1.0602	4.45	-0.78
690	179	Shell-Thick	INVSLE	-0.9515	-0.8804	4.37	-0.78
690	179	Shell-Thick	INVSLE	-2.0974	-1.2741	4.37	-0.70
690	179	Shell-Thick	INVSLE	-2.2015	-1.4267	4.45	-0.70
690	179	Shell-Thick	INVSLU	-0.5988	-0.7585	16.59	3.25
690	179	Shell-Thick	INVSLU	-0.6434	-0.8900	15.96	3.25
690	179	Shell-Thick	INVSLU	-1.3404	-1.1505	15.96	3.80
690	179	Shell-Thick	INVSLU	-1.3047	-1.0133	16.59	3.80
690	179	Shell-Thick	INVSLU	-1.6771	-1.6380	6.01	-1.05
690	179	Shell-Thick	INVSLU	-1.5022	-1.2217	5.90	-1.05
690	179	Shell-Thick	INVSLU	-3.3783	-1.7833	5.90	-0.95
690	179	Shell-Thick	INVSLU	-3.6337	-2.2108	6.01	-0.95
691	180	Shell-Thick	INVSLE	-0.8334	-0.7274	8.92	1.36
691	180	Shell-Thick	INVSLE	-0.8262	-0.8155	8.60	1.36
691	180	Shell-Thick	INVSLE	-1.2833	-0.9891	8.60	1.64
691	180	Shell-Thick	INVSLE	-1.2954	-0.8978	8.92	1.64
691	180	Shell-Thick	INVSLE	-1.9708	-1.4043	3.95	-0.71
691	180	Shell-Thick	INVSLE	-1.8034	-1.1916	3.86	-0.71
691	180	Shell-Thick	INVSLE	-2.8181	-1.5442	3.86	-0.63
691	180	Shell-Thick	INVSLE	-3.0194	-1.7344	3.95	-0.63
691	180	Shell-Thick	INVSLU	-1.1251	-0.9820	14.69	3.75
691	180	Shell-Thick	INVSLU	-1.1153	-1.1009	14.10	3.75
691	180	Shell-Thick	INVSLU	-1.7324	-1.3353	14.10	4.27
691	180	Shell-Thick	INVSLU	-1.7489	-1.2120	14.69	4.27
691	180	Shell-Thick	INVSLU	-3.2898	-2.1893	5.33	-0.95
691	180	Shell-Thick	INVSLU	-2.9365	-1.6650	5.21	-0.95
691	180	Shell-Thick	INVSLU	-4.5979	-2.1879	5.21	-0.85
691	180	Shell-Thick	INVSLU	-5.0186	-2.7046	5.33	-0.85
692	181	Shell-Thick	INVSLE	-1.1597	-0.8748	7.82	1.61
692	181	Shell-Thick	INVSLE	-1.1241	-0.9531	7.52	1.61
692	181	Shell-Thick	INVSLE	-1.5243	-1.1087	7.52	1.87
692	181	Shell-Thick	INVSLE	-1.5641	-1.0277	7.82	1.87
692	181	Shell-Thick	INVSLE	-2.7712	-1.7084	3.46	-0.63
692	181	Shell-Thick	INVSLE	-2.5359	-1.4641	3.37	-0.63
692	181	Shell-Thick	INVSLE	-3.4244	-1.7810	3.37	-0.55
692	181	Shell-Thick	INVSLE	-3.6893	-2.0056	3.46	-0.55
692	181	Shell-Thick	INVSLU	-1.5656	-1.1810	12.87	4.22
692	181	Shell-Thick	INVSLU	-1.5175	-1.2866	12.33	4.22
692	181	Shell-Thick	INVSLU	-2.0578	-1.4968	12.33	4.69
692	181	Shell-Thick	INVSLU	-2.1116	-1.3874	12.87	4.69
692	181	Shell-Thick	INVSLU	-4.6399	-2.6750	4.67	-0.85
692	181	Shell-Thick	INVSLU	-4.1731	-2.0567	4.55	-0.85
692	181	Shell-Thick	INVSLU	-5.6277	-2.5607	4.55	-0.74
692	181	Shell-Thick	INVSLU	-6.1537	-3.1396	4.67	-0.74
693	182	Shell-Thick	INVSLE	-1.4376	-1.0059	6.76	1.85
693	182	Shell-Thick	INVSLE	-1.3698	-1.0743	6.49	1.85
693	182	Shell-Thick	INVSLE	-1.7159	-1.2097	6.49	2.09
693	182	Shell-Thick	INVSLE	-1.7868	-1.1393	6.76	2.09
693	182	Shell-Thick	INVSLE	-3.4561	-1.9784	3.00	-0.56
693	182	Shell-Thick	INVSLE	-3.1418	-1.7052	2.91	-0.56

693	182	Shell-Thick	INVSLE	-3.9102	-1.9798	2.91	-0.48
693	182	Shell-Thick	INVSLE	-4.2487	-2.2369	3.00	-0.48
693	182	Shell-Thick	INVSLU	-1.9408	-1.3579	11.13	4.65
693	182	Shell-Thick	INVSLU	-1.8493	-1.4504	10.65	4.65
693	182	Shell-Thick	INVSLU	-2.3164	-1.6332	10.65	5.07
693	182	Shell-Thick	INVSLU	-2.4121	-1.5380	11.13	5.07
693	182	Shell-Thick	INVSLU	-5.7968	-3.1061	4.04	-0.75
693	182	Shell-Thick	INVSLU	-5.1967	-2.4367	3.92	-0.75
693	182	Shell-Thick	INVSLU	-6.4548	-2.8728	3.92	-0.65
693	182	Shell-Thick	INVSLU	-7.1037	-3.5097	4.04	-0.65
694	183	Shell-Thick	INVSLE	-1.6672	-1.1190	5.75	2.07
694	183	Shell-Thick	INVSLE	-1.5763	-1.1782	5.51	2.07
694	183	Shell-Thick	INVSLE	-1.8700	-1.2950	5.51	2.28
694	183	Shell-Thick	INVSLE	-1.9635	-1.2342	5.75	2.28
694	183	Shell-Thick	INVSLE	-4.0218	-2.2097	2.55	-0.48
694	183	Shell-Thick	INVSLE	-3.6541	-1.9104	2.46	-0.48
694	183	Shell-Thick	INVSLE	-4.3065	-2.1482	2.46	-0.41
694	183	Shell-Thick	INVSLE	-4.6948	-2.4339	2.55	-0.41
694	183	Shell-Thick	INVSLU	-2.2507	-1.5107	9.46	5.03
694	183	Shell-Thick	INVSLU	-2.1279	-1.5905	9.04	5.03
694	183	Shell-Thick	INVSLU	-2.5246	-1.7483	9.04	5.40
694	183	Shell-Thick	INVSLU	-2.6507	-1.6662	9.46	5.40
694	183	Shell-Thick	INVSLU	-6.7524	-3.4745	3.44	-0.65
694	183	Shell-Thick	INVSLU	-6.0637	-2.7595	3.33	-0.65
694	183	Shell-Thick	INVSLU	-7.1320	-3.1376	3.33	-0.55
694	183	Shell-Thick	INVSLU	-7.8621	-3.8250	3.44	-0.55
695	184	Shell-Thick	INVSLE	-1.8584	-1.2161	4.76	2.26
695	184	Shell-Thick	INVSLE	-1.7439	-1.2669	4.56	2.26
695	184	Shell-Thick	INVSLE	-1.9874	-1.3638	4.56	2.44
695	184	Shell-Thick	INVSLE	-2.1038	-1.3119	4.76	2.44
695	184	Shell-Thick	INVSLE	-4.4949	-2.4084	2.11	-0.41
695	184	Shell-Thick	INVSLE	-4.0704	-2.0865	2.04	-0.41
695	184	Shell-Thick	INVSLE	-4.6114	-2.2831	2.04	-0.35
695	184	Shell-Thick	INVSLE	-5.0522	-2.5942	2.11	-0.35
695	184	Shell-Thick	INVSLU	-2.5089	-1.6418	7.84	5.37
695	184	Shell-Thick	INVSLU	-2.3543	-1.7103	7.48	5.37
695	184	Shell-Thick	INVSLU	-2.6831	-1.8411	7.48	5.68
695	184	Shell-Thick	INVSLU	-2.8401	-1.7711	7.84	5.68
695	184	Shell-Thick	INVSLU	-7.5521	-3.7909	2.85	-0.56
695	184	Shell-Thick	INVSLU	-6.7682	-3.0369	2.75	-0.56
695	184	Shell-Thick	INVSLU	-7.6541	-3.3492	2.75	-0.47
695	184	Shell-Thick	INVSLU	-8.4712	-4.0811	2.85	-0.47
696	185	Shell-Thick	INVSLE	-2.0122	-1.2964	3.81	2.43
696	185	Shell-Thick	INVSLE	-1.8813	-1.3398	3.65	2.43
696	185	Shell-Thick	INVSLE	-2.0761	-1.4182	3.65	2.58
696	185	Shell-Thick	INVSLE	-2.2084	-1.3739	3.81	2.58
696	185	Shell-Thick	INVSLE	-4.8745	-2.5715	1.69	-0.35
696	185	Shell-Thick	INVSLE	-4.4127	-2.2306	1.63	-0.35
696	185	Shell-Thick	INVSLE	-4.8454	-2.3902	1.63	-0.30
696	185	Shell-Thick	INVSLE	-5.3203	-2.7224	1.69	-0.30
696	185	Shell-Thick	INVSLU	-2.7164	-1.7501	6.28	5.66
696	185	Shell-Thick	INVSLU	-2.5398	-1.8087	5.98	5.66
696	185	Shell-Thick	INVSLU	-2.8027	-1.9146	5.98	5.91
696	185	Shell-Thick	INVSLU	-2.9813	-1.8547	6.28	5.91
696	185	Shell-Thick	INVSLU	-8.1937	-4.0501	2.28	-0.48
696	185	Shell-Thick	INVSLU	-7.3481	-3.2635	2.20	-0.48
696	185	Shell-Thick	INVSLU	-8.0567	-3.5173	2.20	-0.40
696	185	Shell-Thick	INVSLU	-8.9289	-4.2862	2.28	-0.40
697	186	Shell-Thick	INVSLE	-2.1351	-1.3613	2.89	2.57
697	186	Shell-Thick	INVSLE	-1.9889	-1.3987	2.76	2.57
697	186	Shell-Thick	INVSLE	-2.1363	-1.4579	2.76	2.68
697	186	Shell-Thick	INVSLE	-2.2834	-1.4198	2.89	2.68
697	186	Shell-Thick	INVSLE	-5.1784	-2.7034	1.28	-0.30
697	186	Shell-Thick	INVSLE	-4.6796	-2.3476	1.23	-0.30
697	186	Shell-Thick	INVSLE	-5.0071	-2.4677	1.23	-0.26
697	186	Shell-Thick	INVSLE	-5.5154	-2.8172	1.28	-0.26
697	186	Shell-Thick	INVSLU	-2.8824	-1.8377	4.75	5.89
697	186	Shell-Thick	INVSLU	-2.6850	-1.8883	4.52	5.89
697	186	Shell-Thick	INVSLU	-2.8840	-1.9682	4.52	6.09
697	186	Shell-Thick	INVSLU	-3.0826	-1.9167	4.75	6.09
697	186	Shell-Thick	INVSLU	-8.7075	-4.2599	1.73	-0.41
697	186	Shell-Thick	INVSLU	-7.7998	-3.4480	1.66	-0.41
697	186	Shell-Thick	INVSLU	-8.3361	-3.6387	1.66	-0.35
697	186	Shell-Thick	INVSLU	-9.2632	-4.4377	1.73	-0.35
698	187	Shell-Thick	INVSLE	-2.2277	-1.4104	1.98	2.67
698	187	Shell-Thick	INVSLE	-2.0724	-1.4434	1.89	2.67
698	187	Shell-Thick	INVSLE	-2.1733	-1.4842	1.89	2.75
698	187	Shell-Thick	INVSLE	-2.3292	-1.4507	1.98	2.75

698	187	Shell-Thick	INVSLE	-5.4058	-2.8027	0.88	-0.26
698	187	Shell-Thick	INVSLE	-4.8861	-2.4361	0.84	-0.26
698	187	Shell-Thick	INVSLE	-5.1103	-2.5191	0.84	-0.23
698	187	Shell-Thick	INVSLE	-5.6365	-2.8815	0.88	-0.23
698	187	Shell-Thick	INVSLU	-3.0074	-1.9040	3.25	6.07
698	187	Shell-Thick	INVSLU	-2.7977	-1.9486	3.10	6.07
698	187	Shell-Thick	INVSLU	-2.9339	-2.0037	3.10	6.21
698	187	Shell-Thick	INVSLU	-3.1444	-1.9585	3.25	6.21
698	187	Shell-Thick	INVSLU	-9.0912	-4.4173	1.18	-0.35
698	187	Shell-Thick	INVSLU	-8.1489	-3.5872	1.14	-0.35
698	187	Shell-Thick	INVSLU	-8.5161	-3.7193	1.14	-0.31
698	187	Shell-Thick	INVSLU	-9.4717	-4.5406	1.18	-0.31
699	188	Shell-Thick	INVSLE	-2.2942	-1.4447	1.08	2.75
699	188	Shell-Thick	INVSLE	-2.1314	-1.4749	1.03	2.75
699	188	Shell-Thick	INVSLE	-2.1865	-1.4970	1.03	2.79
699	188	Shell-Thick	INVSLE	-2.3496	-1.4666	1.08	2.79
699	188	Shell-Thick	INVSLE	-5.5683	-2.8720	0.48	-0.23
699	188	Shell-Thick	INVSLE	-5.0297	-2.4988	0.46	-0.23
699	188	Shell-Thick	INVSLE	-5.1522	-2.5438	0.46	-0.22
699	188	Shell-Thick	INVSLE	-5.6941	-2.9147	0.48	-0.22
699	188	Shell-Thick	INVSLU	-3.0972	-1.9503	1.78	6.20
699	188	Shell-Thick	INVSLU	-2.8774	-1.9911	1.69	6.20
699	188	Shell-Thick	INVSLU	-2.9518	-2.0210	1.69	6.27
699	188	Shell-Thick	INVSLU	-3.1720	-1.9799	1.78	6.27
699	188	Shell-Thick	INVSLU	-9.3649	-4.5272	0.65	-0.32
699	188	Shell-Thick	INVSLU	-8.3906	-3.6862	0.62	-0.32
699	188	Shell-Thick	INVSLU	-8.5912	-3.7576	0.62	-0.29
699	188	Shell-Thick	INVSLU	-9.5725	-4.5940	0.65	-0.29
700	189	Shell-Thick	INVSLE	-2.3341	-1.4640	0.19	2.79
700	189	Shell-Thick	INVSLE	-2.1695	-1.4931	0.18	2.79
700	189	Shell-Thick	INVSLE	-2.1792	-1.4969	0.18	2.79
700	189	Shell-Thick	INVSLE	-2.3438	-1.4678	0.19	2.79
700	189	Shell-Thick	INVSLE	-5.6631	-2.9106	8.387E-02	-0.22
700	189	Shell-Thick	INVSLE	-5.1201	-2.5353	8.059E-02	-0.22
700	189	Shell-Thick	INVSLE	-5.1416	-2.5429	8.059E-02	-0.22
700	189	Shell-Thick	INVSLE	-5.6850	-2.9180	8.387E-02	-0.22
700	189	Shell-Thick	INVSLU	-3.1511	-1.9764	0.31	6.27
700	189	Shell-Thick	INVSLU	-2.9289	-2.0157	0.30	6.27
700	189	Shell-Thick	INVSLU	-2.9420	-2.0208	0.30	6.28
700	189	Shell-Thick	INVSLU	-3.1641	-1.9815	0.31	6.28
700	189	Shell-Thick	INVSLU	-9.5235	-4.5881	0.11	-0.29
700	189	Shell-Thick	INVSLU	-8.5416	-3.7438	0.11	-0.29
700	189	Shell-Thick	INVSLU	-8.5769	-3.7560	0.11	-0.29
700	189	Shell-Thick	INVSLU	-9.5597	-4.5997	0.11	-0.29
701	190	Shell-Thick	INVSLE	-2.3499	-1.4687	-0.31	2.80
701	190	Shell-Thick	INVSLE	-2.1854	-1.4984	-0.30	2.80
701	190	Shell-Thick	INVSLE	-2.1497	-1.4838	-0.30	2.77
701	190	Shell-Thick	INVSLE	-2.3140	-1.4544	-0.31	2.77
701	190	Shell-Thick	INVSLE	-5.6975	-2.9194	-0.70	-0.21
701	190	Shell-Thick	INVSLE	-5.1526	-2.5463	-0.67	-0.21
701	190	Shell-Thick	INVSLE	-5.0733	-2.5167	-0.67	-0.23
701	190	Shell-Thick	INVSLE	-5.6157	-2.8916	-0.70	-0.23
701	190	Shell-Thick	INVSLU	-3.1724	-1.9828	-0.42	6.29
701	190	Shell-Thick	INVSLU	-2.9502	-2.0229	-0.40	6.29
701	190	Shell-Thick	INVSLU	-2.9021	-2.0032	-0.40	6.24
701	190	Shell-Thick	INVSLU	-3.1239	-1.9634	-0.42	6.24
701	190	Shell-Thick	INVSLU	-9.5794	-4.6016	-1.15	-0.29
701	190	Shell-Thick	INVSLU	-8.5934	-3.7614	-1.10	-0.29
701	190	Shell-Thick	INVSLU	-8.4637	-3.7144	-1.10	-0.30
701	190	Shell-Thick	INVSLU	-9.4445	-4.5582	-1.15	-0.30
702	191	Shell-Thick	INVSLE	-2.3398	-1.4588	-0.71	2.77
702	191	Shell-Thick	INVSLE	-2.1809	-1.4908	-0.68	2.77
702	191	Shell-Thick	INVSLE	-2.0996	-1.4576	-0.68	2.71
702	191	Shell-Thick	INVSLE	-2.2579	-1.4260	-0.71	2.71
702	191	Shell-Thick	INVSLE	-5.6657	-2.8983	-1.59	-0.22
702	191	Shell-Thick	INVSLE	-5.1331	-2.5319	-1.52	-0.22
702	191	Shell-Thick	INVSLE	-4.9527	-2.4643	-1.52	-0.25
702	191	Shell-Thick	INVSLE	-5.4795	-2.8345	-1.59	-0.25
702	191	Shell-Thick	INVSLU	-3.1587	-1.9694	-0.95	6.24
702	191	Shell-Thick	INVSLU	-2.9442	-2.0126	-0.92	6.24
702	191	Shell-Thick	INVSLU	-2.8345	-1.9678	-0.92	6.13
702	191	Shell-Thick	INVSLU	-3.0482	-1.9251	-0.95	6.13
702	191	Shell-Thick	INVSLU	-9.5225	-4.5676	-2.62	-0.30
702	191	Shell-Thick	INVSLU	-8.5567	-3.7392	-2.50	-0.30
702	191	Shell-Thick	INVSLU	-8.2611	-3.6317	-2.50	-0.34
702	191	Shell-Thick	INVSLU	-9.2154	-4.4678	-2.62	-0.34
703	192	Shell-Thick	INVSLE	-2.3048	-1.4339	-1.11	2.71
703	192	Shell-Thick	INVSLE	-2.1531	-1.4698	-1.06	2.71

703	192 Shell-Thick	INVSLE	-2.0257	-1.4183	-1.06	2.62
703	192 Shell-Thick	INVSLE	-2.1765	-1.3830	-1.11	2.62
703	192 Shell-Thick	INVSLE	-5.5717	-2.8464	-2.50	-0.25
703	192 Shell-Thick	INVSLE	-5.0536	-2.4910	-2.38	-0.25
703	192 Shell-Thick	INVSLE	-4.7706	-2.3865	-2.38	-0.28
703	192 Shell-Thick	INVSLE	-5.2800	-2.7477	-2.50	-0.28
703	192 Shell-Thick	INVSLU	-3.1115	-1.9358	-1.49	6.15
703	192 Shell-Thick	INVSLU	-2.9067	-1.9843	-1.44	6.15
703	192 Shell-Thick	INVSLU	-2.7347	-1.9148	-1.44	5.98
703	192 Shell-Thick	INVSLU	-2.9382	-1.8671	-1.49	5.98
703	192 Shell-Thick	INVSLU	-9.3601	-4.4845	-4.11	-0.33
703	192 Shell-Thick	INVSLU	-8.4170	-3.6751	-3.91	-0.33
703	192 Shell-Thick	INVSLU	-7.9535	-3.5092	-3.91	-0.38
703	192 Shell-Thick	INVSLU	-8.8790	-4.3303	-4.11	-0.38
704	193 Shell-Thick	INVSLE	-2.2413	-1.3941	-1.51	2.63
704	193 Shell-Thick	INVSLE	-2.1030	-1.4357	-1.46	2.63
704	193 Shell-Thick	INVSLE	-1.9287	-1.3650	-1.46	2.49
704	193 Shell-Thick	INVSLE	-2.0655	-1.3244	-1.51	2.49
704	193 Shell-Thick	INVSLE	-5.4055	-2.7644	-3.42	-0.28
704	193 Shell-Thick	INVSLE	-4.9174	-2.4244	-3.26	-0.28
704	193 Shell-Thick	INVSLE	-4.5302	-2.2805	-3.26	-0.33
704	193 Shell-Thick	INVSLE	-5.0061	-2.6286	-3.42	-0.33
704	193 Shell-Thick	INVSLU	-3.0257	-1.8821	-2.04	6.00
704	193 Shell-Thick	INVSLU	-2.8390	-1.9381	-1.97	6.00
704	193 Shell-Thick	INVSLU	-2.6037	-1.8427	-1.97	5.76
704	193 Shell-Thick	INVSLU	-2.7885	-1.7879	-2.04	5.76
704	193 Shell-Thick	INVSLU	-9.0749	-4.3533	-5.62	-0.38
704	193 Shell-Thick	INVSLU	-8.1811	-3.5709	-5.36	-0.38
704	193 Shell-Thick	INVSLU	-7.5470	-3.3422	-5.36	-0.44
704	193 Shell-Thick	INVSLU	-8.4161	-4.1410	-5.62	-0.44
705	194 Shell-Thick	INVSLE	-2.1495	-1.3385	-1.93	2.51
705	194 Shell-Thick	INVSLE	-2.0255	-1.3870	-1.86	2.51
705	194 Shell-Thick	INVSLE	-1.8030	-1.2979	-1.86	2.34
705	194 Shell-Thick	INVSLE	-1.9252	-1.2506	-1.93	2.34
705	194 Shell-Thick	INVSLE	-5.1691	-2.6493	-4.36	-0.33
705	194 Shell-Thick	INVSLE	-4.7114	-2.3286	-4.17	-0.33
705	194 Shell-Thick	INVSLE	-4.2172	-2.1480	-4.17	-0.39
705	194 Shell-Thick	INVSLE	-4.6596	-2.4788	-4.36	-0.39
705	194 Shell-Thick	INVSLU	-2.9018	-1.8070	-2.61	5.79
705	194 Shell-Thick	INVSLU	-2.7344	-1.8725	-2.52	5.79
705	194 Shell-Thick	INVSLU	-2.4341	-1.7522	-2.52	5.50
705	194 Shell-Thick	INVSLU	-2.5990	-1.6883	-2.61	5.50
705	194 Shell-Thick	INVSLU	-8.6708	-4.1693	-7.17	-0.44
705	194 Shell-Thick	INVSLU	-7.8261	-3.4206	-6.84	-0.44
705	194 Shell-Thick	INVSLU	-7.0168	-3.1337	-6.84	-0.52
705	194 Shell-Thick	INVSLU	-7.8305	-3.9031	-7.17	-0.52
706	195 Shell-Thick	INVSLE	-2.0233	-1.2674	-2.36	2.35
706	195 Shell-Thick	INVSLE	-1.9208	-1.3243	-2.28	2.35
706	195 Shell-Thick	INVSLE	-1.6488	-1.2153	-2.28	2.16
706	195 Shell-Thick	INVSLE	-1.7488	-1.1600	-2.36	2.16
706	195 Shell-Thick	INVSLE	-4.8467	-2.5026	-5.32	-0.38
706	195 Shell-Thick	INVSLE	-4.4381	-2.2057	-5.10	-0.38
706	195 Shell-Thick	INVSLE	-3.8341	-1.9840	-5.10	-0.45
706	195 Shell-Thick	INVSLE	-4.2231	-2.2939	-5.32	-0.45
706	195 Shell-Thick	INVSLU	-2.7314	-1.7110	-3.18	5.53
706	195 Shell-Thick	INVSLU	-2.5931	-1.7878	-3.08	5.53
706	195 Shell-Thick	INVSLU	-2.2259	-1.6407	-3.08	5.18
706	195 Shell-Thick	INVSLU	-2.3608	-1.5661	-3.18	5.18
706	195 Shell-Thick	INVSLU	-8.1207	-3.9350	-8.76	-0.52
706	195 Shell-Thick	INVSLU	-7.3572	-3.2279	-8.37	-0.52
706	195 Shell-Thick	INVSLU	-6.3682	-2.8754	-8.37	-0.61
706	195 Shell-Thick	INVSLU	-7.0925	-3.6087	-8.76	-0.61
707	196 Shell-Thick	INVSLE	-1.8625	-1.1792	-2.80	2.18
707	196 Shell-Thick	INVSLE	-1.7810	-1.2454	-2.72	2.18
707	196 Shell-Thick	INVSLE	-1.4576	-1.1179	-2.72	1.95
707	196 Shell-Thick	INVSLE	-1.5361	-1.0537	-2.80	1.95
707	196 Shell-Thick	INVSLE	-4.4398	-2.3198	-6.32	-0.45
707	196 Shell-Thick	INVSLE	-4.0771	-2.0500	-6.07	-0.45
707	196 Shell-Thick	INVSLE	-3.3590	-1.7915	-6.07	-0.52
707	196 Shell-Thick	INVSLE	-3.6987	-2.0767	-6.32	-0.52
707	196 Shell-Thick	INVSLU	-2.5144	-1.5919	-3.78	5.22
707	196 Shell-Thick	INVSLU	-2.4044	-1.6813	-3.67	5.22
707	196 Shell-Thick	INVSLU	-1.9678	-1.5092	-3.67	4.82
707	196 Shell-Thick	INVSLU	-2.0737	-1.4224	-3.78	4.82
707	196 Shell-Thick	INVSLU	-7.4286	-3.6426	-10.41	-0.60
707	196 Shell-Thick	INVSLU	-6.7396	-2.9830	-9.95	-0.60
707	196 Shell-Thick	INVSLU	-5.5638	-2.5727	-9.95	-0.71
707	196 Shell-Thick	INVSLU	-6.2065	-3.2630	-10.41	-0.71

708	197	Shell-Thick	INVSLE	-1.6578	-1.0746	-3.26	1.97
708	197	Shell-Thick	INVSLE	-1.6063	-1.1511	-3.17	1.97
708	197	Shell-Thick	INVSLE	-1.2296	-1.0033	-3.17	1.72
708	197	Shell-Thick	INVSLE	-1.2772	-0.9295	-3.26	1.72
708	197	Shell-Thick	INVSLE	-3.9242	-2.1033	-7.36	-0.52
708	197	Shell-Thick	INVSLE	-3.6318	-1.8646	-7.07	-0.52
708	197	Shell-Thick	INVSLE	-2.7958	-1.5639	-7.07	-0.60
708	197	Shell-Thick	INVSLE	-3.0599	-1.8214	-7.36	-0.60
708	197	Shell-Thick	INVSLU	-2.2381	-1.4507	-4.40	4.86
708	197	Shell-Thick	INVSLU	-2.1684	-1.5539	-4.28	4.86
708	197	Shell-Thick	INVSLU	-1.6600	-1.3545	-4.28	4.41
708	197	Shell-Thick	INVSLU	-1.7242	-1.2548	-4.40	4.41
708	197	Shell-Thick	INVSLU	-6.5523	-3.2963	-12.12	-0.70
708	197	Shell-Thick	INVSLU	-5.9807	-2.6920	-11.60	-0.70
708	197	Shell-Thick	INVSLU	-4.6119	-2.2139	-11.60	-0.81
708	197	Shell-Thick	INVSLU	-5.1271	-2.8557	-12.12	-0.81
709	198	Shell-Thick	INVSLE	-1.4097	-0.9517	-3.74	1.74
709	198	Shell-Thick	INVSLE	-1.3844	-1.0386	-3.65	1.74
709	198	Shell-Thick	INVSLE	-0.9520	-0.8727	-3.65	1.47
709	198	Shell-Thick	INVSLE	-0.9726	-0.7889	-3.74	1.47
709	198	Shell-Thick	INVSLE	-3.3044	-1.8474	-8.44	-0.59
709	198	Shell-Thick	INVSLE	-3.0714	-1.6419	-8.13	-0.59
709	198	Shell-Thick	INVSLE	-2.1115	-1.3052	-8.13	-0.67
709	198	Shell-Thick	INVSLE	-2.3122	-1.5321	-8.44	-0.67
709	198	Shell-Thick	INVSLU	-1.9032	-1.2848	-5.05	4.46
709	198	Shell-Thick	INVSLU	-1.8690	-1.4021	-4.92	4.46
709	198	Shell-Thick	INVSLU	-1.2852	-1.1781	-4.92	3.96
709	198	Shell-Thick	INVSLU	-1.3130	-1.0650	-5.05	3.96
709	198	Shell-Thick	INVSLU	-5.5014	-2.8861	-13.90	-0.80
709	198	Shell-Thick	INVSLU	-5.0276	-2.3415	-13.33	-0.80
709	198	Shell-Thick	INVSLU	-3.4560	-1.8268	-13.33	-0.91
709	198	Shell-Thick	INVSLU	-3.8656	-2.3940	-13.90	-0.91
710	199	Shell-Thick	INVSLE	-1.1039	-0.8117	-4.23	1.50
710	199	Shell-Thick	INVSLE	-1.1166	-0.9091	-4.15	1.50
710	199	Shell-Thick	INVSLE	-0.6262	-0.7236	-4.15	1.21
710	199	Shell-Thick	INVSLE	-0.6072	-0.6303	-4.23	1.21
710	199	Shell-Thick	INVSLE	-2.5423	-1.5553	-9.57	-0.67
710	199	Shell-Thick	INVSLE	-2.4039	-1.3865	-9.24	-0.67
710	199	Shell-Thick	INVSLE	-1.3155	-1.0084	-9.24	-0.75
710	199	Shell-Thick	INVSLE	-1.4148	-1.2032	-9.57	-0.75
710	199	Shell-Thick	INVSLU	-1.4902	-1.0958	-5.72	4.01
710	199	Shell-Thick	INVSLU	-1.5074	-1.2273	-5.60	4.01
710	199	Shell-Thick	INVSLU	-0.8453	-0.9769	-5.60	3.47
710	199	Shell-Thick	INVSLU	-0.8197	-0.8509	-5.72	3.47
710	199	Shell-Thick	INVSLU	-4.2103	-2.4176	-15.76	-0.91
710	199	Shell-Thick	INVSLU	-3.8967	-1.9434	-15.15	-0.91
710	199	Shell-Thick	INVSLU	-2.1149	-1.4041	-15.15	-1.01
710	199	Shell-Thick	INVSLU	-2.3514	-1.8675	-15.76	-1.01
711	200	Shell-Thick	INVSLE	-0.7435	-0.6531	-4.75	1.24
711	200	Shell-Thick	INVSLE	-0.7843	-0.7598	-4.68	1.24
711	200	Shell-Thick	INVSLE	-0.2326	-0.5572	-4.68	0.94
711	200	Shell-Thick	INVSLE	-0.1847	-0.4552	-4.75	0.94
711	200	Shell-Thick	INVSLE	-1.6518	-1.2221	-10.75	-0.74
711	200	Shell-Thick	INVSLE	-1.5819	-1.0902	-10.41	-0.74
711	200	Shell-Thick	INVSLE	-0.3574	-0.6776	-10.41	-0.81
711	200	Shell-Thick	INVSLE	-0.3836	-0.8385	-10.75	-0.81
711	200	Shell-Thick	INVSLU	-1.0037	-0.8816	-6.42	3.54
711	200	Shell-Thick	INVSLU	-1.0589	-1.0257	-6.31	3.54
711	200	Shell-Thick	INVSLU	-0.3141	-0.7522	-6.31	2.97
711	200	Shell-Thick	INVSLU	-0.2494	-0.6145	-6.42	2.97
711	200	Shell-Thick	INVSLU	-2.7050	-1.8819	-17.71	-1.00
711	200	Shell-Thick	INVSLU	-2.5068	-1.5214	-17.06	-1.00
711	200	Shell-Thick	INVSLU	-0.5021	-0.9328	-17.06	-1.09
711	200	Shell-Thick	INVSLU	-0.6142	-1.2830	-17.71	-1.09
712	201	Shell-Thick	INVSLE	-0.3060	-0.4767	-5.29	0.97
712	201	Shell-Thick	INVSLE	-0.3916	-0.5916	-5.24	0.97
712	201	Shell-Thick	INVSLE	0.7409	-0.3112	-5.24	0.67
712	201	Shell-Thick	INVSLE	0.8468	-0.2644	-5.29	0.67
712	201	Shell-Thick	INVSLE	-0.5716	-0.8497	-11.99	-0.81
712	201	Shell-Thick	INVSLE	-0.6246	-0.7574	-11.65	-0.81
712	201	Shell-Thick	INVSLE	0.2237	-0.3732	-11.65	-0.86
712	201	Shell-Thick	INVSLE	0.3187	-0.4388	-11.99	-0.86
712	201	Shell-Thick	INVSLU	-0.4130	-0.6436	-7.15	3.03
712	201	Shell-Thick	INVSLU	-0.5286	-0.7987	-7.07	3.03
712	201	Shell-Thick	INVSLU	1.3406	-0.2395	-7.07	2.43
712	201	Shell-Thick	INVSLU	1.4591	-0.3570	-7.15	2.43
712	201	Shell-Thick	INVSLU	-0.8796	-1.2823	-19.76	-1.09
712	201	Shell-Thick	INVSLU	-0.8948	-1.0473	-19.08	-1.09

712	201	Shell-Thick	INVSLU	0.3020	-0.5038	-19.08	-1.16
712	201	Shell-Thick	INVSLU	0.4302	-0.6411	-19.76	-1.16
713	202	Shell-Thick	INVSLE	0.6634	-0.2844	-5.86	0.70
713	202	Shell-Thick	INVSLE	0.5397	-0.3856	-5.83	0.70
713	202	Shell-Thick	INVSLE	2.0557	0.0945	-5.83	0.41
713	202	Shell-Thick	INVSLE	2.2375	-1.139E-04	-5.86	0.41
713	202	Shell-Thick	INVSLE	0.1984	-0.4414	-13.28	-0.85
713	202	Shell-Thick	INVSLE	0.0895	-0.4041	-12.95	-0.85
713	202	Shell-Thick	INVSLE	0.7724	-0.1700	-12.95	-0.88
713	202	Shell-Thick	INVSLE	0.8915	-0.0572	-13.28	-0.88
713	202	Shell-Thick	INVSLU	1.2025	-0.3840	-7.91	2.51
713	202	Shell-Thick	INVSLU	1.0617	-0.3642	-7.87	2.51
713	202	Shell-Thick	INVSLU	3.5438	0.4013	-7.87	1.91
713	202	Shell-Thick	INVSLU	3.7984	0.0661	-7.91	1.91
713	202	Shell-Thick	INVSLU	0.2679	-0.6235	-21.90	-1.15
713	202	Shell-Thick	INVSLU	0.1208	-0.5455	-21.22	-1.15
713	202	Shell-Thick	INVSLU	1.0427	-0.2295	-21.22	-1.18
713	202	Shell-Thick	INVSLU	1.2036	-0.0772	-21.90	-1.18
714	203	Shell-Thick	INVSLE	2.1523	0.0113	-6.44	0.45
714	203	Shell-Thick	INVSLE	1.8732	0.0295	-6.45	0.45
714	203	Shell-Thick	INVSLE	3.5438	0.5156	-6.45	0.18
714	203	Shell-Thick	INVSLE	3.8940	0.4499	-6.44	0.18
714	203	Shell-Thick	INVSLE	0.8059	-0.0737	-14.64	-0.88
714	203	Shell-Thick	INVSLE	0.6500	-0.1951	-14.33	-0.88
714	203	Shell-Thick	INVSLE	1.4026	0.0431	-14.33	-0.86
714	203	Shell-Thick	INVSLE	1.5720	0.1555	-14.64	-0.86
714	203	Shell-Thick	INVSLU	3.7136	0.1099	-8.70	1.98
714	203	Shell-Thick	INVSLU	3.2916	0.2901	-8.71	1.98
714	203	Shell-Thick	INVSLU	6.0268	1.0636	-8.71	1.39
714	203	Shell-Thick	INVSLU	6.5867	0.7913	-8.70	1.39
714	203	Shell-Thick	INVSLU	1.0880	-0.0994	-24.15	-1.18
714	203	Shell-Thick	INVSLU	0.8774	-0.2634	-23.47	-1.18
714	203	Shell-Thick	INVSLU	1.8935	0.0581	-23.47	-1.17
714	203	Shell-Thick	INVSLU	2.1223	0.2099	-24.15	-1.17
715	204	Shell-Thick	INVSLE	3.8271	0.4743	-7.05	0.22
715	204	Shell-Thick	INVSLE	3.4669	0.4624	-7.12	0.22
715	204	Shell-Thick	INVSLE	5.3042	0.9917	-7.12	-1.199E-02
715	204	Shell-Thick	INVSLE	5.7419	0.9518	-7.05	-1.199E-02
715	204	Shell-Thick	INVSLE	1.4958	0.1423	-16.06	-0.86
715	204	Shell-Thick	INVSLE	1.3259	0.0257	-15.80	-0.86
715	204	Shell-Thick	INVSLE	2.1530	0.2794	-15.80	-0.80
715	204	Shell-Thick	INVSLE	2.3372	0.3864	-16.06	-0.80
715	204	Shell-Thick	INVSLU	6.5306	0.8594	-9.52	1.47
715	204	Shell-Thick	INVSLU	5.9497	0.9688	-9.61	1.47
715	204	Shell-Thick	INVSLU	8.9584	1.8177	-9.61	0.90
715	204	Shell-Thick	INVSLU	9.6900	1.6075	-9.52	0.90
715	204	Shell-Thick	INVSLU	2.0193	0.1921	-26.51	-1.16
715	204	Shell-Thick	INVSLU	1.7900	0.0347	-25.86	-1.16
715	204	Shell-Thick	INVSLU	2.9066	0.3773	-25.86	-1.08
715	204	Shell-Thick	INVSLU	3.1553	0.5216	-26.51	-1.08
716	205	Shell-Thick	INVSLE	13.1862	2.5244	21.38	-1.822E-02
716	205	Shell-Thick	INVSLE	12.2177	2.5564	21.32	-1.822E-02
716	205	Shell-Thick	INVSLE	9.7693	1.9739	21.32	-6.588E-02
716	205	Shell-Thick	INVSLE	10.6050	2.0309	21.38	-6.588E-02
716	205	Shell-Thick	INVSLE	5.6622	1.1155	9.65	-0.12
716	205	Shell-Thick	INVSLE	5.4229	1.1016	10.00	-0.12
716	205	Shell-Thick	INVSLE	4.2791	0.8386	10.00	-0.33
716	205	Shell-Thick	INVSLE	4.4911	0.8710	9.65	-0.33
716	205	Shell-Thick	INVSLU	21.9111	4.1582	34.99	-2.460E-02
716	205	Shell-Thick	INVSLU	20.0972	4.2434	34.45	-2.460E-02
716	205	Shell-Thick	INVSLU	16.1358	3.2905	34.45	0.24
716	205	Shell-Thick	INVSLU	17.6947	3.3760	34.99	0.24
716	205	Shell-Thick	INVSLU	7.6440	1.5059	13.03	-0.24
716	205	Shell-Thick	INVSLU	7.3209	1.4871	13.50	-0.24
716	205	Shell-Thick	INVSLU	5.7768	1.1321	13.50	-0.44
716	205	Shell-Thick	INVSLU	6.0630	1.1758	13.03	-0.44
717	206	Shell-Thick	INVSLE	10.5398	1.9694	19.64	-0.12
717	206	Shell-Thick	INVSLE	9.6778	2.0040	19.46	-0.12
717	206	Shell-Thick	INVSLE	7.4350	1.4671	19.46	4.231E-02
717	206	Shell-Thick	INVSLE	8.1777	1.5124	19.64	4.231E-02
717	206	Shell-Thick	INVSLE	4.4690	0.8697	8.86	-0.32
717	206	Shell-Thick	INVSLE	4.2078	0.8211	9.09	-0.32
717	206	Shell-Thick	INVSLE	3.1627	0.5613	9.09	-0.52
717	206	Shell-Thick	INVSLE	3.3991	0.6267	8.86	-0.52
717	206	Shell-Thick	INVSLU	17.5796	3.2447	32.14	0.11
717	206	Shell-Thick	INVSLU	16.0209	3.3757	31.47	0.11
717	206	Shell-Thick	INVSLU	12.3893	2.5174	31.47	0.70
717	206	Shell-Thick	INVSLU	13.7190	2.5395	32.14	0.70

717	206	Shell-Thick	INVSLU	6.0331	1.1741	11.97	-0.44
717	206	Shell-Thick	INVSLU	5.6805	1.1085	12.28	-0.44
717	206	Shell-Thick	INVSLU	4.2696	0.7578	12.28	-0.71
717	206	Shell-Thick	INVSLU	4.5888	0.8460	11.97	-0.71
718	207	Shell-Thick	INVSLE	8.1473	1.4644	17.99	-6.059E-03
718	207	Shell-Thick	INVSLE	7.4557	1.5132	17.71	-6.059E-03
718	207	Shell-Thick	INVSLE	5.4021	0.9460	17.71	0.25
718	207	Shell-Thick	INVSLE	5.9960	0.9626	17.99	0.25
718	207	Shell-Thick	INVSLE	3.4111	0.6314	8.12	-0.52
718	207	Shell-Thick	INVSLE	3.1685	0.5602	8.24	-0.52
718	207	Shell-Thick	INVSLE	2.2146	0.2817	8.24	-0.63
718	207	Shell-Thick	INVSLE	2.4381	0.3658	8.12	-0.63
718	207	Shell-Thick	INVSLU	13.6394	2.4303	29.45	0.59
718	207	Shell-Thick	INVSLU	12.4272	2.6182	28.68	0.59
718	207	Shell-Thick	INVSLU	9.0985	1.7164	28.68	1.26
718	207	Shell-Thick	INVSLU	10.1219	1.6547	29.45	1.26
718	207	Shell-Thick	INVSLU	4.6050	0.8524	10.96	-0.70
718	207	Shell-Thick	INVSLU	4.2775	0.7563	11.13	-0.70
718	207	Shell-Thick	INVSLU	2.9896	0.3804	11.13	-0.85
718	207	Shell-Thick	INVSLU	3.2914	0.4938	10.96	-0.85
719	208	Shell-Thick	INVSLE	6.0541	0.9306	16.42	0.20
719	208	Shell-Thick	INVSLE	5.4894	1.0071	16.06	0.20
719	208	Shell-Thick	INVSLE	3.6201	0.4896	16.06	0.51
719	208	Shell-Thick	INVSLE	4.0975	0.4714	16.42	0.51
719	208	Shell-Thick	INVSLE	2.4973	0.3767	7.40	-0.63
719	208	Shell-Thick	INVSLE	2.2728	0.2943	7.45	-0.63
719	208	Shell-Thick	INVSLE	1.4064	0.0294	7.45	-0.68
719	208	Shell-Thick	INVSLE	1.6141	0.1232	7.40	-0.68
719	208	Shell-Thick	INVSLU	10.1786	1.5730	26.87	1.16
719	208	Shell-Thick	INVSLU	9.2195	1.8336	26.05	1.16
719	208	Shell-Thick	INVSLU	6.1872	1.0231	26.05	1.88
719	208	Shell-Thick	INVSLU	6.9774	0.8752	26.87	1.88
719	208	Shell-Thick	INVSLU	3.3713	0.5086	10.00	-0.86
719	208	Shell-Thick	INVSLU	3.0682	0.3973	10.06	-0.86
719	208	Shell-Thick	INVSLU	1.8987	0.0397	10.06	-0.91
719	208	Shell-Thick	INVSLU	2.1790	0.1663	10.00	-0.91
720	209	Shell-Thick	INVSLE	4.1823	0.4525	14.93	0.47
720	209	Shell-Thick	INVSLE	3.8059	0.5625	14.53	0.47
720	209	Shell-Thick	INVSLE	2.1062	0.0403	14.53	0.82
720	209	Shell-Thick	INVSLE	2.4120	-0.0226	14.93	0.82
720	209	Shell-Thick	INVSLE	1.6945	0.1387	6.73	-0.68
720	209	Shell-Thick	INVSLE	1.5196	0.0526	6.71	-0.68
720	209	Shell-Thick	INVSLE	0.7341	-0.2142	6.71	-0.66
720	209	Shell-Thick	INVSLE	0.8966	-0.1199	6.73	-0.66
720	209	Shell-Thick	INVSLU	7.0673	0.8165	24.45	1.79
720	209	Shell-Thick	INVSLU	6.4572	1.1538	23.59	1.79
720	209	Shell-Thick	INVSLU	3.6973	0.3355	23.59	2.54
720	209	Shell-Thick	INVSLU	4.1694	0.0903	24.45	2.54
720	209	Shell-Thick	INVSLU	2.2875	0.1872	9.08	-0.91
720	209	Shell-Thick	INVSLU	2.0514	0.0711	9.07	-0.91
720	209	Shell-Thick	INVSLU	0.9910	-0.2892	9.07	-0.90
720	209	Shell-Thick	INVSLU	1.2104	-0.1619	9.08	-0.90
721	210	Shell-Thick	INVSLE	2.5904	-0.0267	13.52	0.77
721	210	Shell-Thick	INVSLE	2.3243	0.1236	13.09	0.77
721	210	Shell-Thick	INVSLE	0.7882	-0.3606	13.09	1.15
721	210	Shell-Thick	INVSLE	0.9919	-0.3436	13.52	1.15
721	210	Shell-Thick	INVSLE	1.0165	-0.0998	6.09	-0.67
721	210	Shell-Thick	INVSLE	0.8725	-0.1827	6.03	-0.67
721	210	Shell-Thick	INVSLE	0.1641	-0.4336	6.03	-0.62
721	210	Shell-Thick	INVSLE	0.2975	-0.4693	6.09	-0.62
721	210	Shell-Thick	INVSLU	4.4156	0.0582	22.14	2.45
721	210	Shell-Thick	INVSLU	4.0077	0.4789	21.28	2.45
721	210	Shell-Thick	INVSLU	1.5118	-0.2761	21.28	3.20
721	210	Shell-Thick	INVSLU	1.7971	-0.4639	22.14	3.20
721	210	Shell-Thick	INVSLU	1.3722	-0.1347	8.22	-0.90
721	210	Shell-Thick	INVSLU	1.1779	-0.2466	8.14	-0.90
721	210	Shell-Thick	INVSLU	0.2216	-0.5853	8.14	-0.83
721	210	Shell-Thick	INVSLU	0.4016	-0.6524	8.22	-0.83
722	211	Shell-Thick	INVSLE	1.1846	-0.3208	12.19	1.12
722	211	Shell-Thick	INVSLE	1.0780	-0.2705	11.75	1.12
722	211	Shell-Thick	INVSLE	-0.3015	-0.6351	11.75	1.50
722	211	Shell-Thick	INVSLE	-0.2181	-0.5547	12.19	1.50
722	211	Shell-Thick	INVSLE	0.4262	-0.4630	5.49	-0.62
722	211	Shell-Thick	INVSLE	0.3355	-0.3964	5.39	-0.62
722	211	Shell-Thick	INVSLE	-0.3066	-0.7325	5.39	-0.54
722	211	Shell-Thick	INVSLE	-0.2503	-0.8916	5.49	-0.54
722	211	Shell-Thick	INVSLU	2.0641	-0.4331	19.96	3.13
722	211	Shell-Thick	INVSLU	1.9389	-0.1245	19.12	3.13

722	211	Shell-Thick	INVSLU	-0.3126	-0.8455	19.12	3.86	
722	211	Shell-Thick	INVSLU	-0.2876	-0.7488	19.96	3.86	
722	211	Shell-Thick	INVSLU	0.5754	-0.6464	7.41	-0.84	
722	211	Shell-Thick	INVSLU	0.4529	-0.5351	7.28	-0.84	
722	211	Shell-Thick	INVSLU	-0.4147	-1.0035	7.28	-0.73	
722	211	Shell-Thick	INVSLU	-0.3427	-1.2822	7.41	-0.73	
723	212	Shell-Thick	INVSLE	0.0037	-0.5296	10.93	1.46	
723	212	Shell-Thick	INVSLE	-0.0081	-0.5944	10.49	1.46	
723	212	Shell-Thick	INVSLE	-0.6924	-0.8145	10.49	1.84	
723	212	Shell-Thick	INVSLE	-0.6424	-0.7458	10.93	1.84	
723	212	Shell-Thick	INVSLE	-0.0672	-0.8752	4.91	-0.55	
723	212	Shell-Thick	INVSLE	-0.1233	-0.6384	4.80	-0.55	
723	212	Shell-Thick	INVSLE	-1.2475	-1.0641	4.80	-0.45	
723	212	Shell-Thick	INVSLE	-1.2797	-1.2716	4.91	-0.45	
723	212	Shell-Thick	INVSLU	0.0860	-0.7149	17.90	3.79	
723	212	Shell-Thick	INVSLU	0.1253	-0.6894	17.09	3.79	
723	212	Shell-Thick	INVSLU	-0.9348	-1.0996	17.09	4.50	
723	212	Shell-Thick	INVSLU	-0.8672	-1.0068	17.90	4.50	
723	212	Shell-Thick	INVSLU	-0.0908	-1.2760	6.63	-0.74	
723	212	Shell-Thick	INVSLU	-0.1664	-0.8684	6.48	-0.74	
723	212	Shell-Thick	INVSLU	-1.8913	-1.4740	6.48	-0.60	
723	212	Shell-Thick	INVSLU	-2.0187	-1.8814	6.63	-0.60	
724	213	Shell-Thick	INVSLE	-0.4925	-0.7199	9.73	1.81	
724	213	Shell-Thick	INVSLE	-0.5014	-0.7723	9.31	1.81	
724	213	Shell-Thick	INVSLE	-1.0073	-0.9731	9.31	2.18	
724	213	Shell-Thick	INVSLE	-1.0022	-0.9182	9.73	2.18	
724	213	Shell-Thick	INVSLE	-1.0257	-1.2490	4.37	-0.45	
724	213	Shell-Thick	INVSLE	-0.9125	-0.9689	4.25	-0.45	
724	213	Shell-Thick	INVSLE	-2.0164	-1.3576	4.25	-0.35	
724	213	Shell-Thick	INVSLE	-2.1649	-1.6142	4.37	-0.35	
724	213	Shell-Thick	INVSLU	-0.6649	-0.9718	15.95	4.44	
724	213	Shell-Thick	INVSLU	-0.6769	-1.0426	15.18	4.44	
724	213	Shell-Thick	INVSLU	-1.3599	-1.3136	15.18	5.11	
724	213	Shell-Thick	INVSLU	-1.3530	-1.2396	15.95	5.11	
724	213	Shell-Thick	INVSLU	-1.6440	-1.8626	5.90	-0.61	
724	213	Shell-Thick	INVSLU	-1.3891	-1.3376	5.74	-0.61	
724	213	Shell-Thick	INVSLU	-3.1865	-1.8904	5.74	-0.47	
724	213	Shell-Thick	INVSLU	-3.5132	-2.4213	5.90	-0.47	
725	214	Shell-Thick	INVSLE	-0.8462	-0.8921	8.60	2.15	
725	214	Shell-Thick	INVSLE	-0.8221	-0.9309	8.20	2.15	
725	214	Shell-Thick	INVSLE	-1.2680	-1.1116	8.20	2.50	
725	214	Shell-Thick	INVSLE	-1.2949	-1.0709	8.60	2.50	
725	214	Shell-Thick	INVSLE	-1.8852	-1.5866	3.86	-0.35	
725	214	Shell-Thick	INVSLE	-1.6916	-1.2643	3.74	-0.35	
725	214	Shell-Thick	INVSLE	-2.6660	-1.6151	3.74	-0.24	
725	214	Shell-Thick	INVSLE	-2.8899	-1.9173	3.86	-0.24	
725	214	Shell-Thick	INVSLU	-1.1424	-1.2043	14.10	5.05	
725	214	Shell-Thick	INVSLU	-1.1099	-1.2568	13.39	5.05	
725	214	Shell-Thick	INVSLU	-1.7118	-1.5006	13.39	5.67	
725	214	Shell-Thick	INVSLU	-1.7482	-1.4457	14.10	5.67	
725	214	Shell-Thick	INVSLU	-3.0900	-2.3920	5.21	-0.47	
725	214	Shell-Thick	INVSLU	-2.6999	-1.7568	5.04	-0.47	
725	214	Shell-Thick	INVSLU	-4.2871	-2.2559	5.04	-0.32	
725	214	Shell-Thick	INVSLU	-4.7394	-2.8989	5.21	-0.32	
726	215	Shell-Thick	INVSLE	-1.1475	-1.0456	7.52	2.47	
726	215	Shell-Thick	INVSLE	-1.0851	-1.0708	7.16	2.47	
726	215	Shell-Thick	INVSLE	-1.4746	-1.2300	7.16	2.79	
726	215	Shell-Thick	INVSLE	-1.5384	-1.2038	7.52	2.79	
726	215	Shell-Thick	INVSLE	-2.6242	-1.8874	3.37	-0.25	
726	215	Shell-Thick	INVSLE	-2.3352	-1.5257	3.25	-0.25	
726	215	Shell-Thick	INVSLE	-3.1875	-1.8350	3.25	-0.14	
726	215	Shell-Thick	INVSLE	-3.5007	-2.1807	3.37	-0.14	
726	215	Shell-Thick	INVSLU	-1.5491	-1.4115	12.33	5.62	
726	215	Shell-Thick	INVSLU	-1.4649	-1.4456	11.69	5.62	
726	215	Shell-Thick	INVSLU	-1.9907	-1.6606	11.69	6.19	
726	215	Shell-Thick	INVSLU	-2.0769	-1.6252	12.33	6.19	
726	215	Shell-Thick	INVSLU	-4.3366	-2.8636	4.56	-0.33	
726	215	Shell-Thick	INVSLU	-3.7847	-2.1279	4.39	-0.33	
726	215	Shell-Thick	INVSLU	-5.1739	-2.5680	4.39	-0.19	
726	215	Shell-Thick	INVSLU	-5.7761	-3.3135	4.56	-0.19	
727	216	Shell-Thick	INVSLE	-1.3960	-1.1799	6.49	2.77	
727	216	Shell-Thick	INVSLE	-1.3062	-1.1919	6.17	2.77	
727	216	Shell-Thick	INVSLE	-1.6418	-1.3308	6.17	3.05	
727	216	Shell-Thick	INVSLE	-1.7325	-1.3182	6.49	3.05	
727	216	Shell-Thick	INVSLE	-3.2354	-2.1499	2.91	-0.14	
727	216	Shell-Thick	INVSLE	-2.8825	-1.7518	2.80	-0.14	
727	216	Shell-Thick	INVSLE	-3.6179	-2.0229	2.80	-4.075E-02	
727	216	Shell-Thick	INVSLE	-3.9911	-2.4076	2.91	-4.075E-02	

727	216	Shell-Thick	INVSLU	-1.8846	-1.5928	10.65	6.14
727	216	Shell-Thick	INVSLU	-1.7634	-1.6090	10.07	6.14
727	216	Shell-Thick	INVSLU	-2.2165	-1.7966	10.07	6.64
727	216	Shell-Thick	INVSLU	-2.3389	-1.7796	10.65	6.64
727	216	Shell-Thick	INVSLU	-5.3685	-3.2747	3.93	-0.19
727	216	Shell-Thick	INVSLU	-4.7104	-2.4489	3.77	-0.19
727	216	Shell-Thick	INVSLU	-5.9094	-2.8348	3.77	-5.501E-02
727	216	Shell-Thick	INVSLU	-6.6102	-3.6709	3.93	-5.501E-02
728	217	Shell-Thick	INVSLE	-1.6045	-1.2962	5.51	3.04
728	217	Shell-Thick	INVSLE	-1.4859	-1.2960	5.22	3.04
728	217	Shell-Thick	INVSLE	-1.7703	-1.4138	5.22	3.29
728	217	Shell-Thick	INVSLE	-1.8892	-1.4140	5.51	3.29
728	217	Shell-Thick	INVSLE	-3.7521	-2.3777	2.47	-4.453E-02
728	217	Shell-Thick	INVSLE	-3.3292	-1.9473	2.36	-4.453E-02
728	217	Shell-Thick	INVSLE	-3.9532	-2.1772	2.36	4.749E-02
728	217	Shell-Thick	INVSLE	-4.3919	-2.5971	2.47	4.749E-02
728	217	Shell-Thick	INVSLU	-2.1661	-1.7499	9.04	6.61
728	217	Shell-Thick	INVSLU	-2.0060	-1.7496	8.53	6.61
728	217	Shell-Thick	INVSLU	-2.3900	-1.9087	8.53	7.05
728	217	Shell-Thick	INVSLU	-2.5504	-1.9089	9.04	7.05
728	217	Shell-Thick	INVSLU	-6.2424	-3.6318	3.33	-6.012E-02
728	217	Shell-Thick	INVSLU	-5.4666	-2.7266	3.19	-6.012E-02
728	217	Shell-Thick	INVSLU	-6.4845	-3.0623	3.19	6.411E-02
728	217	Shell-Thick	INVSLU	-7.2940	-3.9692	3.33	6.411E-02
729	218	Shell-Thick	INVSLE	-1.7737	-1.3944	4.56	3.27
729	218	Shell-Thick	INVSLE	-1.6348	-1.3832	4.32	3.27
729	218	Shell-Thick	INVSLE	-1.8701	-1.4814	4.32	3.49
729	218	Shell-Thick	INVSLE	-2.0089	-1.4927	4.56	3.49
729	218	Shell-Thick	INVSLE	-4.1715	-2.5693	2.04	4.380E-02
729	218	Shell-Thick	INVSLE	-3.7021	-2.1107	1.95	4.380E-02
729	218	Shell-Thick	INVSLE	-4.2186	-2.3032	1.95	0.12
729	218	Shell-Thick	INVSLE	-4.7009	-2.7533	2.04	0.12
729	218	Shell-Thick	INVSLU	-2.3945	-1.8825	7.49	7.01
729	218	Shell-Thick	INVSLU	-2.2070	-1.8673	7.06	7.01
729	218	Shell-Thick	INVSLU	-2.5246	-1.9998	7.06	7.39
729	218	Shell-Thick	INVSLU	-2.7121	-2.0151	7.49	7.39
729	218	Shell-Thick	INVSLU	-6.9520	-3.9317	2.76	5.913E-02
729	218	Shell-Thick	INVSLU	-6.0993	-2.9586	2.63	5.913E-02
729	218	Shell-Thick	INVSLU	-6.9421	-3.2562	2.63	0.17
729	218	Shell-Thick	INVSLU	-7.8225	-4.2152	2.76	0.17
730	219	Shell-Thick	INVSLE	-1.9121	-1.4760	3.65	3.47
730	219	Shell-Thick	INVSLE	-1.7534	-1.4553	3.45	3.47
730	219	Shell-Thick	INVSLE	-1.9414	-1.5335	3.45	3.65
730	219	Shell-Thick	INVSLE	-2.0998	-1.5544	3.65	3.65
730	219	Shell-Thick	INVSLE	-4.5161	-2.7288	1.63	0.12
730	219	Shell-Thick	INVSLE	-3.9989	-2.2468	1.56	0.12
730	219	Shell-Thick	INVSLE	-4.4120	-2.3998	1.56	0.19
730	219	Shell-Thick	INVSLE	-4.9387	-2.8757	1.63	0.19
730	219	Shell-Thick	INVSLU	-2.5814	-1.9926	5.99	7.36
730	219	Shell-Thick	INVSLU	-2.3672	-1.9647	5.64	7.36
730	219	Shell-Thick	INVSLU	-2.6209	-2.0702	5.64	7.66
730	219	Shell-Thick	INVSLU	-2.8347	-2.0985	5.99	7.66
730	219	Shell-Thick	INVSLU	-7.5357	-4.1816	2.20	0.16
730	219	Shell-Thick	INVSLU	-6.6027	-3.1646	2.10	0.16
730	219	Shell-Thick	INVSLU	-7.2769	-3.4045	2.10	0.25
730	219	Shell-Thick	INVSLU	-8.2307	-4.4078	2.20	0.25
731	220	Shell-Thick	INVSLE	-2.0202	-1.5409	2.76	3.64
731	220	Shell-Thick	INVSLE	-1.8489	-1.5126	2.60	3.64
731	220	Shell-Thick	INVSLE	-1.9909	-1.5719	2.60	3.77
731	220	Shell-Thick	INVSLE	-2.1619	-1.6005	2.76	3.77
731	220	Shell-Thick	INVSLE	-4.7844	-2.8553	1.23	0.19
731	220	Shell-Thick	INVSLE	-4.2380	-2.3546	1.17	0.19
731	220	Shell-Thick	INVSLE	-4.5502	-2.4713	1.17	0.24
731	220	Shell-Thick	INVSLE	-5.1037	-2.9673	1.23	0.24
731	220	Shell-Thick	INVSLU	-2.7273	-2.0802	4.53	7.64
731	220	Shell-Thick	INVSLU	-2.4960	-2.0420	4.26	7.64
731	220	Shell-Thick	INVSLU	-2.6877	-2.1220	4.26	7.88
731	220	Shell-Thick	INVSLU	-2.9186	-2.1606	4.53	7.88
731	220	Shell-Thick	INVSLU	-7.9898	-4.3795	1.67	0.25
731	220	Shell-Thick	INVSLU	-7.0084	-3.3310	1.59	0.25
731	220	Shell-Thick	INVSLU	-7.5181	-3.5142	1.59	0.32
731	220	Shell-Thick	INVSLU	-8.5151	-4.5524	1.67	0.32
732	221	Shell-Thick	INVSLE	-2.1038	-1.5904	1.89	3.77
732	221	Shell-Thick	INVSLE	-1.9210	-1.5563	1.78	3.77
732	221	Shell-Thick	INVSLE	-2.0182	-1.5967	1.78	3.86
732	221	Shell-Thick	INVSLE	-2.2006	-1.6310	1.89	3.86
732	221	Shell-Thick	INVSLE	-4.9915	-2.9519	0.84	0.24
732	221	Shell-Thick	INVSLE	-4.4169	-2.4376	0.80	0.24

732	221 Shell-Thick	INVSLE	-4.6307	-2.5169	0.80	0.27
732	221 Shell-Thick	INVSLE	-5.2098	-3.0282	0.84	0.27
732	221 Shell-Thick	INVSLU	-2.8401	-2.1470	3.10	7.86
732	221 Shell-Thick	INVSLU	-2.5933	-2.1010	2.91	7.86
732	221 Shell-Thick	INVSLU	-2.7245	-2.1555	2.91	8.02
732	221 Shell-Thick	INVSLU	-2.9708	-2.2018	3.10	8.02
732	221 Shell-Thick	INVSLU	-8.3402	-4.5307	1.14	0.32
732	221 Shell-Thick	INVSLU	-7.3112	-3.4595	1.08	0.32
732	221 Shell-Thick	INVSLU	-7.6602	-3.5839	1.08	0.37
732	221 Shell-Thick	INVSLU	-8.6993	-4.6484	1.14	0.37
733	222 Shell-Thick	INVSLE	-2.1625	-1.6245	1.03	3.86
733	222 Shell-Thick	INVSLE	-1.9745	-1.5868	0.97	3.86
733	222 Shell-Thick	INVSLE	-2.0275	-1.6088	0.97	3.91
733	222 Shell-Thick	INVSLE	-2.2153	-1.6467	1.03	3.91
733	222 Shell-Thick	INVSLE	-5.1349	-3.0181	0.46	0.27
733	222 Shell-Thick	INVSLE	-4.5481	-2.4954	0.44	0.27
733	222 Shell-Thick	INVSLE	-4.6648	-2.5389	0.44	0.29
733	222 Shell-Thick	INVSLE	-5.2540	-3.0600	0.46	0.29
733	222 Shell-Thick	INVSLU	-2.9194	-2.1931	1.69	8.01
733	222 Shell-Thick	INVSLU	-2.6656	-2.1421	1.59	8.01
733	222 Shell-Thick	INVSLU	-2.7372	-2.1719	1.59	8.10
733	222 Shell-Thick	INVSLU	-2.9907	-2.2231	1.69	8.10
733	222 Shell-Thick	INVSLU	-8.5818	-4.6341	0.62	0.37
733	222 Shell-Thick	INVSLU	-7.5324	-3.5492	0.59	0.37
733	222 Shell-Thick	INVSLU	-7.7230	-3.6174	0.59	0.39
733	222 Shell-Thick	INVSLU	-8.7778	-4.6988	0.62	0.39
734	223 Shell-Thick	INVSLE	-2.2000	-1.6440	0.18	3.91
734	223 Shell-Thick	INVSLE	-2.0083	-1.6046	0.17	3.91
734	223 Shell-Thick	INVSLE	-2.0176	-1.6084	0.17	3.91
734	223 Shell-Thick	INVSLE	-2.2092	-1.6478	0.18	3.91
734	223 Shell-Thick	INVSLE	-5.2245	-3.0556	8.082E-02	0.29
734	223 Shell-Thick	INVSLE	-4.6274	-2.5298	7.676E-02	0.29
734	223 Shell-Thick	INVSLE	-4.6479	-2.5372	7.676E-02	0.29
734	223 Shell-Thick	INVSLE	-5.2453	-3.0629	8.082E-02	0.29
734	223 Shell-Thick	INVSLU	-2.9699	-2.2194	0.30	8.10
734	223 Shell-Thick	INVSLU	-2.7112	-2.1663	0.28	8.10
734	223 Shell-Thick	INVSLU	-2.7238	-2.1713	0.28	8.11
734	223 Shell-Thick	INVSLU	-2.9824	-2.2245	0.30	8.11
734	223 Shell-Thick	INVSLU	-8.7318	-4.6926	0.11	0.39
734	223 Shell-Thick	INVSLU	-7.6645	-3.6027	0.10	0.39
734	223 Shell-Thick	INVSLU	-7.6981	-3.6143	0.10	0.40
734	223 Shell-Thick	INVSLU	-8.7660	-4.7039	0.11	0.40
735	224 Shell-Thick	INVSLE	-2.2148	-1.6488	-0.30	3.92
735	224 Shell-Thick	INVSLE	-2.0253	-1.6100	-0.28	3.92
735	224 Shell-Thick	INVSLE	-1.9911	-1.5955	-0.28	3.88
735	224 Shell-Thick	INVSLE	-2.1805	-1.6342	-0.30	3.88
735	224 Shell-Thick	INVSLE	-5.2555	-3.0643	-0.67	0.29
735	224 Shell-Thick	INVSLE	-4.6630	-2.5408	-0.63	0.29
735	224 Shell-Thick	INVSLE	-4.5876	-2.5121	-0.63	0.28
735	224 Shell-Thick	INVSLE	-5.1781	-3.0370	-0.67	0.28
735	224 Shell-Thick	INVSLU	-2.9899	-2.2259	-0.40	8.11
735	224 Shell-Thick	INVSLU	-2.7342	-2.1735	-0.38	8.11
735	224 Shell-Thick	INVSLU	-2.6879	-2.1539	-0.38	8.06
735	224 Shell-Thick	INVSLU	-2.9436	-2.2062	-0.40	8.06
735	224 Shell-Thick	INVSLU	-8.7816	-4.7058	-1.10	0.40
735	224 Shell-Thick	INVSLU	-7.7217	-3.6202	-1.03	0.40
735	224 Shell-Thick	INVSLU	-7.5986	-3.5751	-1.03	0.38
735	224 Shell-Thick	INVSLU	-8.6542	-4.6636	-1.10	0.38
736	225 Shell-Thick	INVSLE	-2.2090	-1.6390	-0.68	3.89
736	225 Shell-Thick	INVSLE	-2.0233	-1.6029	-0.65	3.89
736	225 Shell-Thick	INVSLE	-1.9451	-1.5701	-0.65	3.81
736	225 Shell-Thick	INVSLE	-2.1309	-1.6061	-0.68	3.81
736	225 Shell-Thick	INVSLE	-5.2340	-3.0442	-1.52	0.28
736	225 Shell-Thick	INVSLE	-4.6482	-2.5282	-1.43	0.28
736	225 Shell-Thick	INVSLE	-4.4761	-2.4638	-1.43	0.25
736	225 Shell-Thick	INVSLE	-5.0579	-2.9826	-1.52	0.25
736	225 Shell-Thick	INVSLU	-2.9821	-2.2126	-0.92	8.06
736	225 Shell-Thick	INVSLU	-2.7315	-2.1639	-0.87	8.06
736	225 Shell-Thick	INVSLU	-2.6259	-2.1196	-0.87	7.93
736	225 Shell-Thick	INVSLU	-2.8767	-2.1682	-0.92	7.93
736	225 Shell-Thick	INVSLU	-8.7420	-4.6738	-2.50	0.38
736	225 Shell-Thick	INVSLU	-7.6920	-3.6011	-2.35	0.38
736	225 Shell-Thick	INVSLU	-7.4111	-3.5002	-2.35	0.34
736	225 Shell-Thick	INVSLU	-8.4522	-4.5787	-2.50	0.34
737	226 Shell-Thick	INVSLE	-2.1796	-1.6145	-1.07	3.82
737	226 Shell-Thick	INVSLE	-2.0039	-1.5832	-1.02	3.82
737	226 Shell-Thick	INVSLE	-1.8812	-1.5316	-1.02	3.70
737	226 Shell-Thick	INVSLE	-2.0571	-1.5628	-1.07	3.70

737	226	Shell-Thick	INVSLE	-5.1518	-2.9953	-2.39	0.25
737	226	Shell-Thick	INVSLE	-4.5881	-2.4922	-2.25	0.25
737	226	Shell-Thick	INVSLE	-4.3184	-2.3907	-2.25	0.21
737	226	Shell-Thick	INVSLE	-4.8755	-2.8981	-2.39	0.21
737	226	Shell-Thick	INVSLU	-2.9425	-2.1796	-1.44	7.95
737	226	Shell-Thick	INVSLU	-2.7053	-2.1374	-1.37	7.95
737	226	Shell-Thick	INVSLU	-2.5397	-2.0677	-1.37	7.75
737	226	Shell-Thick	INVSLU	-2.7770	-2.1098	-1.44	7.75
737	226	Shell-Thick	INVSLU	-8.5985	-4.5966	-3.91	0.34
737	226	Shell-Thick	INVSLU	-7.5849	-3.5463	-3.68	0.34
737	226	Shell-Thick	INVSLU	-7.1446	-3.3868	-3.68	0.28
737	226	Shell-Thick	INVSLU	-8.1438	-4.4466	-3.91	0.28
738	227	Shell-Thick	INVSLE	-2.1276	-1.5747	-1.46	3.71
738	227	Shell-Thick	INVSLE	-1.9630	-1.5502	-1.39	3.71
738	227	Shell-Thick	INVSLE	-1.7949	-1.4800	-1.39	3.55
738	227	Shell-Thick	INVSLE	-1.9597	-1.5043	-1.46	3.55
738	227	Shell-Thick	INVSLE	-5.0125	-2.9160	-3.27	0.21
738	227	Shell-Thick	INVSLE	-4.4720	-2.4309	-3.08	0.21
738	227	Shell-Thick	INVSLE	-4.1024	-2.2933	-3.08	0.15
738	227	Shell-Thick	INVSLE	-4.6341	-2.7842	-3.27	0.15
738	227	Shell-Thick	INVSLU	-2.8723	-2.1258	-1.97	7.76
738	227	Shell-Thick	INVSLU	-2.6501	-2.0928	-1.88	7.76
738	227	Shell-Thick	INVSLU	-2.4231	-1.9979	-1.88	7.49
738	227	Shell-Thick	INVSLU	-2.6456	-2.0308	-1.97	7.49
738	227	Shell-Thick	INVSLU	-8.3579	-4.4715	-5.36	0.29
738	227	Shell-Thick	INVSLU	-7.3814	-3.4522	-5.05	0.29
738	227	Shell-Thick	INVSLU	-6.7783	-3.2364	-5.05	0.20
738	227	Shell-Thick	INVSLU	-7.7355	-4.2685	-5.36	0.20
739	228	Shell-Thick	INVSLE	-2.0481	-1.5194	-1.87	3.56
739	228	Shell-Thick	INVSLE	-1.9014	-1.5038	-1.78	3.56
739	228	Shell-Thick	INVSLE	-1.6867	-1.4137	-1.78	3.36
739	228	Shell-Thick	INVSLE	-1.8332	-1.4293	-1.87	3.36
739	228	Shell-Thick	INVSLE	-4.8030	-2.8065	-4.17	0.15
739	228	Shell-Thick	INVSLE	-4.3033	-2.3449	-3.94	0.15
739	228	Shell-Thick	INVSLE	-3.8317	-2.1681	-3.94	7.883E-02
739	228	Shell-Thick	INVSLE	-4.3192	-2.6378	-4.17	7.883E-02
739	228	Shell-Thick	INVSLU	-2.7649	-2.0512	-2.52	7.52
739	228	Shell-Thick	INVSLU	-2.5669	-2.0301	-2.40	7.52
739	228	Shell-Thick	INVSLU	-2.2770	-1.9085	-2.40	7.17
739	228	Shell-Thick	INVSLU	-2.4748	-1.9296	-2.52	7.17
739	228	Shell-Thick	INVSLU	-7.9976	-4.2991	-6.84	0.21
739	228	Shell-Thick	INVSLU	-7.0886	-3.3202	-6.45	0.21
739	228	Shell-Thick	INVSLU	-6.3191	-3.0430	-6.45	0.11
739	228	Shell-Thick	INVSLU	-7.2020	-4.0391	-6.84	0.11
740	229	Shell-Thick	INVSLE	-1.9411	-1.4475	-2.28	3.38
740	229	Shell-Thick	INVSLE	-1.8128	-1.4423	-2.19	3.38
740	229	Shell-Thick	INVSLE	-1.5497	-1.3328	-2.19	3.14
740	229	Shell-Thick	INVSLE	-1.6777	-1.3381	-2.28	3.14
740	229	Shell-Thick	INVSLE	-4.5256	-2.6638	-5.10	8.240E-02
740	229	Shell-Thick	INVSLE	-4.0656	-2.2302	-4.83	8.240E-02
740	229	Shell-Thick	INVSLE	-3.4881	-2.0164	-4.83	-4.850E-03
740	229	Shell-Thick	INVSLE	-3.9333	-2.4598	-5.10	-4.850E-03
740	229	Shell-Thick	INVSLU	-2.6205	-1.9541	-3.08	7.20
740	229	Shell-Thick	INVSLU	-2.4473	-1.9472	-2.95	7.20
740	229	Shell-Thick	INVSLU	-2.0921	-1.7993	-2.95	6.79
740	229	Shell-Thick	INVSLU	-2.2649	-1.8064	-3.08	6.79
740	229	Shell-Thick	INVSLU	-7.5227	-4.0742	-8.37	0.11
740	229	Shell-Thick	INVSLU	-6.6780	-3.1438	-7.90	0.11
740	229	Shell-Thick	INVSLU	-5.7360	-2.8246	-7.90	-6.548E-03
740	229	Shell-Thick	INVSLU	-6.5490	-3.7606	-8.37	-6.548E-03
741	230	Shell-Thick	INVSLE	-1.7989	-1.3588	-2.72	3.16
741	230	Shell-Thick	INVSLE	-1.6973	-1.3658	-2.61	3.16
741	230	Shell-Thick	INVSLE	-1.3840	-1.2353	-2.61	2.89
741	230	Shell-Thick	INVSLE	-1.4847	-1.2289	-2.72	2.89
741	230	Shell-Thick	INVSLE	-4.1603	-2.4883	-6.07	-1.171E-03
741	230	Shell-Thick	INVSLE	-3.7621	-2.0881	-5.76	-1.171E-03
741	230	Shell-Thick	INVSLE	-3.0753	-1.8332	-5.76	-9.898E-02
741	230	Shell-Thick	INVSLE	-3.4543	-2.2462	-6.07	-9.898E-02
741	230	Shell-Thick	INVSLU	-2.4285	-1.8344	-3.67	6.83
741	230	Shell-Thick	INVSLU	-2.2913	-1.8439	-3.52	6.83
741	230	Shell-Thick	INVSLU	-1.8684	-1.6677	-3.52	6.35
741	230	Shell-Thick	INVSLU	-2.0043	-1.6590	-3.67	6.35
741	230	Shell-Thick	INVSLU	-6.8987	-3.7981	-9.95	-1.580E-03
741	230	Shell-Thick	INVSLU	-6.1565	-2.9272	-9.41	-1.580E-03
741	230	Shell-Thick	INVSLU	-5.0367	-2.5645	-9.41	-0.13
741	230	Shell-Thick	INVSLU	-5.7384	-3.4259	-9.95	-0.13
742	231	Shell-Thick	INVSLE	-1.6216	-1.2518	-3.17	2.91
742	231	Shell-Thick	INVSLE	-1.5451	-1.2720	-3.05	2.91

742	231 Shell-Thick	INVSLE	-1.1791	-1.1213	-3.05	2.60	
742	231 Shell-Thick	INVSLE	-1.2542	-1.1020	-3.17	2.60	
742	231 Shell-Thick	INVSLE	-3.7105	-2.2762	-7.08	-9.430E-02	
742	231 Shell-Thick	INVSLE	-3.3680	-1.9130	-6.73	-9.430E-02	
742	231 Shell-Thick	INVSLE	-2.5666	-1.6201	-6.73	-0.20	
742	231 Shell-Thick	INVSLE	-2.8863	-1.9983	-7.08	-0.20	
742	231 Shell-Thick	INVSLU	-2.1891	-1.6900	-4.28	6.39	
742	231 Shell-Thick	INVSLU	-2.0859	-1.7173	-4.12	6.39	
742	231 Shell-Thick	INVSLU	-1.5918	-1.5138	-4.12	5.85	
742	231 Shell-Thick	INVSLU	-1.6932	-1.4877	-4.28	5.85	
742	231 Shell-Thick	INVSLU	-6.1329	-3.4640	-11.60	-0.13	
742	231 Shell-Thick	INVSLU	-5.4819	-2.6788	-10.99	-0.13	
742	231 Shell-Thick	INVSLU	-4.1754	-2.2620	-10.99	-0.27	
742	231 Shell-Thick	INVSLU	-4.7789	-3.0377	-11.60	-0.27	
743	232 Shell-Thick	INVSLE	-1.3973	-1.1265	-3.65	2.63	
743	232 Shell-Thick	INVSLE	-1.3565	-1.1610	-3.52	2.63	
743	232 Shell-Thick	INVSLE	-0.9354	-0.9889	-3.52	2.29	
743	232 Shell-Thick	INVSLE	-0.9735	-0.9561	-3.65	2.29	
743	232 Shell-Thick	INVSLE	-3.1456	-2.0279	-8.13	-0.20	
743	232 Shell-Thick	INVSLE	-2.8887	-1.7068	-7.75	-0.20	
743	232 Shell-Thick	INVSLE	-1.9679	-1.3724	-7.75	-0.30	
743	232 Shell-Thick	INVSLE	-2.1960	-1.7127	-8.13	-0.30	
743	232 Shell-Thick	INVSLU	-1.8863	-1.5207	-4.93	5.90	
743	232 Shell-Thick	INVSLU	-1.8313	-1.5673	-4.76	5.90	
743	232 Shell-Thick	INVSLU	-1.2628	-1.3350	-4.76	5.30	
743	232 Shell-Thick	INVSLU	-1.3142	-1.2908	-4.93	5.30	
743	232 Shell-Thick	INVSLU	-5.1730	-3.0733	-13.33	-0.26	
743	232 Shell-Thick	INVSLU	-4.6654	-2.3860	-12.65	-0.26	
743	232 Shell-Thick	INVSLU	-3.1652	-1.9103	-12.65	-0.41	
743	232 Shell-Thick	INVSLU	-3.6137	-2.5900	-13.33	-0.41	
744	233 Shell-Thick	INVSLE	-1.1270	-0.9817	-4.15	2.32	
744	233 Shell-Thick	INVSLE	-1.1168	-1.0304	-4.03	2.32	
744	233 Shell-Thick	INVSLE	-0.6371	-0.8378	-4.03	1.96	
744	233 Shell-Thick	INVSLE	-0.6438	-0.7913	-4.15	1.96	
744	233 Shell-Thick	INVSLE	-2.4737	-1.7407	-9.24	-0.30	
744	233 Shell-Thick	INVSLE	-2.2873	-1.4638	-8.83	-0.30	
744	233 Shell-Thick	INVSLE	-1.2399	-1.0908	-8.83	-0.41	
744	233 Shell-Thick	INVSLE	-1.3929	-1.3899	-9.24	-0.41	
744	233 Shell-Thick	INVSLU	-1.5215	-1.3252	-5.60	5.36	
744	233 Shell-Thick	INVSLU	-1.5077	-1.3910	-5.43	5.36	
744	233 Shell-Thick	INVSLU	-0.8601	-1.1310	-5.43	4.71	
744	233 Shell-Thick	INVSLU	-0.8691	-1.0683	-5.60	4.71	
744	233 Shell-Thick	INVSLU	-4.0352	-2.6209	-15.14	-0.40	
744	233 Shell-Thick	INVSLU	-3.6447	-2.0412	-14.40	-0.40	
744	233 Shell-Thick	INVSLU	-1.9389	-1.5105	-14.40	-0.55	
744	233 Shell-Thick	INVSLU	-2.2615	-2.0839	-15.14	-0.55	
745	234 Shell-Thick	INVSLE	-0.7928	-0.8169	-4.68	1.99	
745	234 Shell-Thick	INVSLE	-0.8269	-0.8800	-4.56	1.99	
745	234 Shell-Thick	INVSLE	-0.2856	-0.6678	-4.56	1.62	
745	234 Shell-Thick	INVSLE	-0.2459	-0.6084	-4.68	1.62	
745	234 Shell-Thick	INVSLE	-1.6480	-1.4136	-10.41	-0.40	
745	234 Shell-Thick	INVSLE	-1.5746	-1.1850	-9.98	-0.40	
745	234 Shell-Thick	INVSLE	-0.3950	-0.7747	-9.98	-0.51	
745	234 Shell-Thick	INVSLE	-0.4267	-1.0311	-10.41	-0.51	
745	234 Shell-Thick	INVSLU	-1.0702	-1.1029	-6.32	4.77	
745	234 Shell-Thick	INVSLU	-1.1163	-1.1879	-6.16	4.77	
745	234 Shell-Thick	INVSLU	-0.3855	-0.8988	-6.16	4.08	
745	234 Shell-Thick	INVSLU	-0.3320	-0.8214	-6.32	4.08	
745	234 Shell-Thick	INVSLU	-2.6398	-2.1056	-17.05	-0.55	
745	234 Shell-Thick	INVSLU	-2.4417	-1.6455	-16.26	-0.55	
745	234 Shell-Thick	INVSLU	-0.5497	-1.0619	-16.26	-0.68	
745	234 Shell-Thick	INVSLU	-0.6363	-1.5213	-17.05	-0.68	
746	235 Shell-Thick	INVSLE	-0.3985	-0.6336	-5.24	1.65	
746	235 Shell-Thick	INVSLE	-0.4652	-0.7091	-5.14	1.65	
746	235 Shell-Thick	INVSLE	0.6237	-0.4198	-5.14	1.27	
746	235 Shell-Thick	INVSLE	0.6812	-0.4060	-5.24	1.27	
746	235 Shell-Thick	INVSLE	-0.6875	-1.0495	-11.64	-0.50	
746	235 Shell-Thick	INVSLE	-0.6975	-0.8690	-11.20	-0.50	
746	235 Shell-Thick	INVSLE	0.1422	-0.4771	-11.20	-0.59	
746	235 Shell-Thick	INVSLE	0.2156	-0.6320	-11.64	-0.59	
746	235 Shell-Thick	INVSLU	-0.5379	-0.8554	-7.07	4.15	
746	235 Shell-Thick	INVSLU	-0.6280	-0.9573	-6.93	4.15	
746	235 Shell-Thick	INVSLU	1.1822	-0.3534	-6.93	3.42	
746	235 Shell-Thick	INVSLU	1.2211	-0.5482	-7.07	3.42	
746	235 Shell-Thick	INVSLU	-1.0227	-1.5319	-19.06	-0.68	
746	235 Shell-Thick	INVSLU	-0.9765	-1.1971	-18.24	-0.68	
746	235 Shell-Thick	INVSLU	0.1919	-0.6440	-18.24	-0.80	
746	235 Shell-Thick	INVSLU	0.2911	-0.8940	-19.06	-0.80	

747	236	Shell-Thick	INVSLE	0.4777	-0.4292	-5.83	1.30
747	236	Shell-Thick	INVSLE	0.3244	-0.5112	-5.75	1.30
747	236	Shell-Thick	INVSLE	1.7931	-0.0397	-5.75	0.92
747	236	Shell-Thick	INVSLE	2.0058	-0.1911	-5.83	0.92
747	236	Shell-Thick	INVSLE	0.0830	-0.6411	-12.94	-0.59
747	236	Shell-Thick	INVSLE	-0.0340	-0.5156	-12.50	-0.59
747	236	Shell-Thick	INVSLE	0.6428	-0.2709	-12.50	-0.65
747	236	Shell-Thick	INVSLE	0.7697	-0.2091	-12.94	-0.65
747	236	Shell-Thick	INVSLU	0.9355	-0.5795	-7.86	3.49
747	236	Shell-Thick	INVSLU	0.7400	-0.5061	-7.76	3.49
747	236	Shell-Thick	INVSLU	3.1271	0.2283	-7.76	2.75
747	236	Shell-Thick	INVSLU	3.4392	-0.2301	-7.86	2.75
747	236	Shell-Thick	INVSLU	0.1120	-0.8973	-21.19	-0.79
747	236	Shell-Thick	INVSLU	-0.0459	-0.6961	-20.34	-0.79
747	236	Shell-Thick	INVSLU	0.8677	-0.3657	-20.34	-0.88
747	236	Shell-Thick	INVSLU	1.0390	-0.2850	-21.19	-0.88
748	237	Shell-Thick	INVSLE	1.8117	-0.2087	-6.45	0.97
748	237	Shell-Thick	INVSLE	1.5601	-0.1256	-6.41	0.97
748	237	Shell-Thick	INVSLE	3.1884	0.3884	-6.41	0.60
748	237	Shell-Thick	INVSLE	3.5067	0.2608	-6.45	0.60
748	237	Shell-Thick	INVSLE	0.6430	-0.2120	-14.32	-0.65
748	237	Shell-Thick	INVSLE	0.4957	-0.3048	-13.90	-0.65
748	237	Shell-Thick	INVSLE	1.2475	-0.0416	-13.90	-0.68
748	237	Shell-Thick	INVSLE	1.4063	0.0435	-14.32	-0.68
748	237	Shell-Thick	INVSLU	3.1669	-0.2050	-8.71	2.83
748	237	Shell-Thick	INVSLU	2.7943	0.0822	-8.66	2.83
748	237	Shell-Thick	INVSLU	5.4391	0.8870	-8.66	2.08
748	237	Shell-Thick	INVSLU	5.9423	0.5127	-8.71	2.08
748	237	Shell-Thick	INVSLU	0.8680	-0.2862	-23.44	-0.87
748	237	Shell-Thick	INVSLU	0.6692	-0.4114	-22.58	-0.87
748	237	Shell-Thick	INVSLU	1.6842	-0.0561	-22.58	-0.91
748	237	Shell-Thick	INVSLU	1.8985	0.0587	-23.44	-0.91
749	238	Shell-Thick	INVSLE	3.4024	0.2755	-7.11	0.64
749	238	Shell-Thick	INVSLE	2.9836	0.3119	-7.13	0.64
749	238	Shell-Thick	INVSLE	4.7771	0.8204	-7.13	0.31
749	238	Shell-Thick	INVSLE	5.2787	0.7286	-7.11	0.31
749	238	Shell-Thick	INVSLE	1.3164	0.0269	-15.77	-0.68
749	238	Shell-Thick	INVSLE	1.1220	-0.0681	-15.39	-0.68
749	238	Shell-Thick	INVSLE	1.9524	0.1941	-15.39	-0.66
749	238	Shell-Thick	INVSLE	2.1626	0.2784	-15.77	-0.66
749	238	Shell-Thick	INVSLU	5.8215	0.5637	-9.60	2.17
749	238	Shell-Thick	INVSLU	5.1424	0.7526	-9.62	2.17
749	238	Shell-Thick	INVSLU	8.0526	1.5468	-9.62	1.44
749	238	Shell-Thick	INVSLU	8.8921	1.2508	-9.60	1.44
749	238	Shell-Thick	INVSLU	1.7771	0.0363	-25.81	-0.91
749	238	Shell-Thick	INVSLU	1.5147	-0.0919	-24.97	-0.91
749	238	Shell-Thick	INVSLU	2.6357	0.2620	-24.97	-0.89
749	238	Shell-Thick	INVSLU	2.9195	0.3758	-25.81	-0.89
750	239	Shell-Thick	INVSLE	12.2380	2.3225	21.25	-2.669E-02
750	239	Shell-Thick	INVSLE	11.1974	2.3646	21.03	-2.669E-02
750	239	Shell-Thick	INVSLE	8.7774	1.7985	21.03	5.921E-02
750	239	Shell-Thick	INVSLE	9.6775	1.8505	21.25	5.921E-02
750	239	Shell-Thick	INVSLE	5.4482	1.0646	9.97	-0.13
750	239	Shell-Thick	INVSLE	5.1537	1.0558	10.24	-0.13
750	239	Shell-Thick	INVSLE	3.9792	0.7868	10.24	-0.26
750	239	Shell-Thick	INVSLE	4.2421	0.8168	9.97	-0.26
750	239	Shell-Thick	INVSLU	20.1118	3.7812	34.34	-3.604E-02
750	239	Shell-Thick	INVSLU	18.2057	3.8823	33.55	-3.604E-02
750	239	Shell-Thick	INVSLU	14.3416	2.9717	33.55	0.43
750	239	Shell-Thick	INVSLU	15.9805	3.0492	34.34	0.43
750	239	Shell-Thick	INVSLU	7.3550	1.4372	13.46	-0.26
750	239	Shell-Thick	INVSLU	6.9575	1.4253	13.83	-0.26
750	239	Shell-Thick	INVSLU	5.3719	1.0621	13.83	-0.35
750	239	Shell-Thick	INVSLU	5.7268	1.1027	13.46	-0.35
751	240	Shell-Thick	INVSLE	9.6791	1.7961	19.41	-3.360E-03
751	240	Shell-Thick	INVSLE	8.7852	1.8548	19.07	-3.360E-03
751	240	Shell-Thick	INVSLE	6.5775	1.2637	19.07	0.30
751	240	Shell-Thick	INVSLE	7.3552	1.2827	19.41	0.30
751	240	Shell-Thick	INVSLE	4.2268	0.8135	9.07	-0.26
751	240	Shell-Thick	INVSLE	3.9332	0.7778	9.22	-0.26
751	240	Shell-Thick	INVSLE	2.8683	0.4847	9.22	-0.39
751	240	Shell-Thick	INVSLE	3.1373	0.5371	9.07	-0.39
751	240	Shell-Thick	INVSLU	16.0017	2.9354	31.40	0.30
751	240	Shell-Thick	INVSLU	14.4117	3.1037	30.48	0.30
751	240	Shell-Thick	INVSLU	10.8788	2.1670	30.48	1.10
751	240	Shell-Thick	INVSLU	12.2464	2.1474	31.40	1.10
751	240	Shell-Thick	INVSLU	5.7062	1.0982	12.25	-0.36
751	240	Shell-Thick	INVSLU	5.3098	1.0501	12.45	-0.36

751	240 Shell-Thick	INVSLU	3.8723	0.6544	12.45	-0.53	
751	240 Shell-Thick	INVSLU	4.2353	0.7250	12.25	-0.53	
752	241 Shell-Thick	INVSLE	7.4381	1.2471	17.67	0.24	
752	241 Shell-Thick	INVSLE	6.6937	1.3391	17.23	0.24	
752	241 Shell-Thick	INVSLE	4.6893	0.7952	17.23	0.62	
752	241 Shell-Thick	INVSLE	5.3316	0.7714	17.67	0.62	
752	241 Shell-Thick	INVSLE	3.1801	0.5434	8.23	-0.39	
752	241 Shell-Thick	INVSLE	2.9064	0.4946	8.28	-0.39	
752	241 Shell-Thick	INVSLE	1.9449	0.2091	8.28	-0.44	
752	241 Shell-Thick	INVSLE	2.1976	0.2721	8.23	-0.44	
752	241 Shell-Thick	INVSLU	12.3757	2.0632	28.62	0.97	
752	241 Shell-Thick	INVSLU	11.0856	2.3184	27.62	0.97	
752	241 Shell-Thick	INVSLU	7.8718	1.4747	27.62	1.85	
752	241 Shell-Thick	INVSLU	8.9658	1.3505	28.62	1.85	
752	241 Shell-Thick	INVSLU	4.2932	0.7336	11.11	-0.53	
752	241 Shell-Thick	INVSLU	3.9236	0.6677	11.17	-0.53	
752	241 Shell-Thick	INVSLU	2.6256	0.2823	11.17	-0.59	
752	241 Shell-Thick	INVSLU	2.9668	0.3673	11.11	-0.59	
753	242 Shell-Thick	INVSLE	5.4564	0.7506	16.04	0.57	
753	242 Shell-Thick	INVSLE	4.9048	0.8840	15.54	0.57	
753	242 Shell-Thick	INVSLE	3.0859	0.3347	15.54	1.01	
753	242 Shell-Thick	INVSLE	3.5552	0.2562	16.04	1.01	
753	242 Shell-Thick	INVSLE	2.2776	0.2855	7.44	-0.44	
753	242 Shell-Thick	INVSLE	2.0515	0.2330	7.42	-0.44	
753	242 Shell-Thick	INVSLE	1.1841	-0.0579	7.42	-0.42	
753	242 Shell-Thick	INVSLE	1.3949	0.0047	7.44	-0.42	
753	242 Shell-Thick	INVSLU	9.1426	1.2900	26.02	1.74	
753	242 Shell-Thick	INVSLU	8.2136	1.6389	24.97	1.74	
753	242 Shell-Thick	INVSLU	5.2914	0.7899	24.97	2.66	
753	242 Shell-Thick	INVSLU	6.0603	0.5478	26.02	2.66	
753	242 Shell-Thick	INVSLU	3.0747	0.3854	10.05	-0.59	
753	242 Shell-Thick	INVSLU	2.7695	0.3146	10.01	-0.59	
753	242 Shell-Thick	INVSLU	1.5985	-0.0782	10.01	-0.56	
753	242 Shell-Thick	INVSLU	1.8831	0.0063	10.05	-0.56	
754	243 Shell-Thick	INVSLE	3.7571	0.2499	14.51	0.96	
754	243 Shell-Thick	INVSLE	3.3483	0.4338	13.98	0.96	
754	243 Shell-Thick	INVSLE	1.7063	-0.0680	13.98	1.43	
754	243 Shell-Thick	INVSLE	2.0436	-0.2043	14.51	1.43	
754	243 Shell-Thick	INVSLE	1.5171	0.0241	6.71	-0.42	
754	243 Shell-Thick	INVSLE	1.3312	-0.0234	6.63	-0.42	
754	243 Shell-Thick	INVSLE	0.5519	-0.2968	6.63	-0.35	
754	243 Shell-Thick	INVSLE	0.7255	-0.2411	6.71	-0.35	
754	243 Shell-Thick	INVSLU	6.3546	0.5118	23.56	2.55	
754	243 Shell-Thick	INVSLU	5.6875	0.9640	22.50	2.55	
754	243 Shell-Thick	INVSLU	3.0450	0.1973	22.50	3.48	
754	243 Shell-Thick	INVSLU	3.5721	-0.1617	23.56	3.48	
754	243 Shell-Thick	INVSLU	2.0481	0.0325	9.06	-0.57	
754	243 Shell-Thick	INVSLU	1.7971	-0.0316	8.95	-0.57	
754	243 Shell-Thick	INVSLU	0.7451	-0.4007	8.95	-0.47	
754	243 Shell-Thick	INVSLU	0.9794	-0.3254	9.06	-0.47	
755	244 Shell-Thick	INVSLE	2.2636	-0.1998	13.09	1.38	
755	244 Shell-Thick	INVSLE	2.0363	0.0375	12.53	1.38	
755	244 Shell-Thick	INVSLE	0.5559	-0.4469	12.53	1.87	
755	244 Shell-Thick	INVSLE	0.7269	-0.4759	13.09	1.87	
755	244 Shell-Thick	INVSLE	0.8640	-0.2178	6.03	-0.35	
755	244 Shell-Thick	INVSLE	0.7377	-0.2551	5.91	-0.35	
755	244 Shell-Thick	INVSLE	0.0388	-0.5185	5.91	-0.24	
755	244 Shell-Thick	INVSLE	0.1571	-0.6466	6.03	-0.24	
755	244 Shell-Thick	INVSLU	3.8866	-0.1788	21.27	3.39	
755	244 Shell-Thick	INVSLU	3.5422	0.3768	20.21	3.39	
755	244 Shell-Thick	INVSLU	1.1556	-0.3639	20.21	4.31	
755	244 Shell-Thick	INVSLU	1.3876	-0.6424	21.27	4.31	
755	244 Shell-Thick	INVSLU	1.1664	-0.2941	8.14	-0.47	
755	244 Shell-Thick	INVSLU	0.9959	-0.3444	7.97	-0.47	
755	244 Shell-Thick	INVSLU	0.0524	-0.6999	7.97	-0.33	
755	244 Shell-Thick	INVSLU	0.2121	-0.8986	8.14	-0.33	
756	245 Shell-Thick	INVSLE	1.0062	-0.4495	11.75	1.82	
756	245 Shell-Thick	INVSLE	0.8988	-0.3376	11.19	1.82	
756	245 Shell-Thick	INVSLE	-0.3858	-0.7141	11.19	2.31	
756	245 Shell-Thick	INVSLE	-0.3084	-0.6875	11.75	2.31	
756	245 Shell-Thick	INVSLE	0.3213	-0.6314	5.40	-0.25	
756	245 Shell-Thick	INVSLE	0.2380	-0.4722	5.25	-0.25	
756	245 Shell-Thick	INVSLE	-0.4280	-0.7789	5.25	-0.12	
756	245 Shell-Thick	INVSLE	-0.3687	-1.0407	5.40	-0.12	
756	245 Shell-Thick	INVSLU	1.8005	-0.6068	19.11	4.23	
756	245 Shell-Thick	INVSLU	1.6652	-0.1816	18.09	4.23	
756	245 Shell-Thick	INVSLU	-0.4769	-0.8540	18.09	5.12	
756	245 Shell-Thick	INVSLU	-0.4163	-0.9281	19.11	5.12	

756	245	Shell-Thick	INVSLU	0.4338	-0.8797	7.29	-0.34	
756	245	Shell-Thick	INVSLU	0.3213	-0.6375	7.08	-0.34	
756	245	Shell-Thick	INVSLU	-0.5841	-1.0612	7.08	-0.16	
756	245	Shell-Thick	INVSLU	-0.5069	-1.4579	7.29	-0.16	
757	246	Shell-Thick	INVSLE	-0.0882	-0.6596	10.49	2.27	
757	246	Shell-Thick	INVSLE	-0.0474	-0.6655	9.95	2.27	
757	246	Shell-Thick	INVSLE	-0.7253	-0.8884	9.95	2.74	
757	246	Shell-Thick	INVSLE	-0.6999	-0.8806	10.49	2.74	
757	246	Shell-Thick	INVSLE	-0.1420	-1.0184	4.81	-0.12	
757	246	Shell-Thick	INVSLE	-0.1703	-0.6689	4.64	-0.12	
757	246	Shell-Thick	INVSLE	-1.2330	-1.0771	4.64	2.131E-02	
757	246	Shell-Thick	INVSLE	-1.3110	-1.4020	4.81	2.131E-02	
757	246	Shell-Thick	INVSLU	-0.0259	-0.8905	17.09	5.05	
757	246	Shell-Thick	INVSLU	0.0950	-0.6728	16.11	5.05	
757	246	Shell-Thick	INVSLU	-0.9791	-1.1993	16.11	5.90	
757	246	Shell-Thick	INVSLU	-0.9449	-1.1888	17.09	5.90	
757	246	Shell-Thick	INVSLU	-0.1917	-1.4346	6.49	-0.17	
757	246	Shell-Thick	INVSLU	-0.2299	-0.9035	6.27	-0.17	
757	246	Shell-Thick	INVSLU	-1.8217	-1.4824	6.27	2.877E-02	
757	246	Shell-Thick	INVSLU	-2.0197	-2.0065	6.49	2.877E-02	
758	247	Shell-Thick	INVSLE	-0.5241	-0.8519	9.32	2.71	
758	247	Shell-Thick	INVSLE	-0.5131	-0.8395	8.80	2.71	
758	247	Shell-Thick	INVSLE	-1.0037	-1.0396	8.80	3.16	
758	247	Shell-Thick	INVSLE	-1.0162	-1.0511	9.32	3.16	
758	247	Shell-Thick	INVSLE	-0.9998	-1.3736	4.26	1.451E-02	
758	247	Shell-Thick	INVSLE	-0.8614	-0.9690	4.09	1.451E-02	
758	247	Shell-Thick	INVSLE	-1.9129	-1.3362	4.09	0.16	
758	247	Shell-Thick	INVSLE	-2.0825	-1.7202	4.26	0.16	
758	247	Shell-Thick	INVSLU	-0.7075	-1.1501	15.19	5.83	
758	247	Shell-Thick	INVSLU	-0.6927	-1.1191	14.27	5.83	
758	247	Shell-Thick	INVSLU	-1.3550	-1.4035	14.27	6.63	
758	247	Shell-Thick	INVSLU	-1.3719	-1.4190	15.19	6.63	
758	247	Shell-Thick	INVSLU	-1.5515	-1.9785	5.75	1.959E-02	
758	247	Shell-Thick	INVSLU	-1.2653	-1.3275	5.52	1.959E-02	
758	247	Shell-Thick	INVSLU	-2.9672	-1.8484	5.52	0.22	
758	247	Shell-Thick	INVSLU	-3.3190	-2.4960	5.75	0.22	
759	248	Shell-Thick	INVSLE	-0.8479	-1.0228	8.21	3.13	
759	248	Shell-Thick	INVSLE	-0.7916	-0.9919	7.73	3.13	
759	248	Shell-Thick	INVSLE	-1.2226	-1.1698	7.73	3.55	
759	248	Shell-Thick	INVSLE	-1.2786	-1.2011	8.21	3.55	
759	248	Shell-Thick	INVSLE	-1.7845	-1.6885	3.74	0.16	
759	248	Shell-Thick	INVSLE	-1.5318	-1.2321	3.57	0.16	
759	248	Shell-Thick	INVSLE	-2.4587	-1.5598	3.57	0.30	
759	248	Shell-Thick	INVSLE	-2.7350	-2.0006	3.74	0.30	
759	248	Shell-Thick	INVSLU	-1.1447	-1.3808	13.39	6.57	
759	248	Shell-Thick	INVSLU	-1.0687	-1.3390	12.55	6.57	
759	248	Shell-Thick	INVSLU	-1.6505	-1.5793	12.55	7.31	
759	248	Shell-Thick	INVSLU	-1.7261	-1.6214	13.39	7.31	
759	248	Shell-Thick	INVSLU	-2.8706	-2.4605	5.05	0.21	
759	248	Shell-Thick	INVSLU	-2.3902	-1.6993	4.83	0.21	
759	248	Shell-Thick	INVSLU	-3.8921	-2.1642	4.83	0.41	
759	248	Shell-Thick	INVSLU	-4.4240	-2.9277	5.05	0.41	
760	249	Shell-Thick	INVSLE	-1.1133	-1.1737	7.16	3.52	
760	249	Shell-Thick	INVSLE	-1.0245	-1.1245	6.73	3.52	
760	249	Shell-Thick	INVSLE	-1.3993	-1.2803	6.73	3.90	
760	249	Shell-Thick	INVSLE	-1.4871	-1.3303	7.16	3.90	
760	249	Shell-Thick	INVSLE	-2.4324	-1.9669	3.26	0.30	
760	249	Shell-Thick	INVSLE	-2.1030	-1.4618	3.10	0.30	
760	249	Shell-Thick	INVSLE	-2.9112	-1.7502	3.10	0.44	
760	249	Shell-Thick	INVSLE	-3.2600	-2.2426	3.26	0.44	
760	249	Shell-Thick	INVSLU	-1.5029	-1.5845	11.69	7.25	
760	249	Shell-Thick	INVSLU	-1.3831	-1.5181	10.93	7.25	
760	249	Shell-Thick	INVSLU	-1.8891	-1.7284	10.93	7.92	
760	249	Shell-Thick	INVSLU	-2.0076	-1.7958	11.69	7.92	
760	249	Shell-Thick	INVSLU	-3.9622	-2.8867	4.40	0.40	
760	249	Shell-Thick	INVSLU	-3.3536	-2.0240	4.18	0.40	
760	249	Shell-Thick	INVSLU	-4.6644	-2.4332	4.18	0.59	
760	249	Shell-Thick	INVSLU	-5.3160	-3.3005	4.40	0.59	
761	250	Shell-Thick	INVSLE	-1.3360	-1.3047	6.17	3.88	
761	250	Shell-Thick	INVSLE	-1.2127	-1.2383	5.78	3.88	
761	250	Shell-Thick	INVSLE	-1.5350	-1.3722	5.78	4.22	
761	250	Shell-Thick	INVSLE	-1.6564	-1.4399	6.17	4.22	
761	250	Shell-Thick	INVSLE	-2.9829	-2.2090	2.80	0.43	
761	250	Shell-Thick	INVSLE	-2.5687	-1.6599	2.65	0.43	
761	250	Shell-Thick	INVSLE	-3.2655	-1.9082	2.65	0.56	
761	250	Shell-Thick	INVSLE	-3.6939	-2.4480	2.80	0.56	
761	250	Shell-Thick	INVSLU	-1.8036	-1.7613	10.08	7.87	
761	250	Shell-Thick	INVSLU	-1.6371	-1.6718	9.41	7.87	

761	250	Shell-Thick	INVSLU	-2.0722	-1.8524	9.41	8.46
761	250	Shell-Thick	INVSLU	-2.2361	-1.9438	10.08	8.46
761	250	Shell-Thick	INVSLU	-4.8927	-3.2576	3.78	0.59
761	250	Shell-Thick	INVSLU	-4.1412	-2.3040	3.58	0.59
761	250	Shell-Thick	INVSLU	-5.2722	-2.6565	3.58	0.76
761	250	Shell-Thick	INVSLU	-6.0567	-3.6171	3.78	0.76
762	251	Shell-Thick	INVSLE	-1.5168	-1.4165	5.23	4.20
762	251	Shell-Thick	INVSLE	-1.3690	-1.3344	4.89	4.20
762	251	Shell-Thick	INVSLE	-1.6413	-1.4476	4.89	4.50
762	251	Shell-Thick	INVSLE	-1.7871	-1.5312	5.23	4.50
762	251	Shell-Thick	INVSLE	-3.4317	-2.4157	2.37	0.56
762	251	Shell-Thick	INVSLE	-2.9606	-1.8271	2.24	0.56
762	251	Shell-Thick	INVSLE	-3.5505	-2.0385	2.24	0.67
762	251	Shell-Thick	INVSLE	-4.0329	-2.6196	2.37	0.67
762	251	Shell-Thick	INVSLU	-2.0476	-1.9123	8.54	8.42
762	251	Shell-Thick	INVSLU	-1.8481	-1.8015	7.96	8.42
762	251	Shell-Thick	INVSLU	-2.2158	-1.9543	7.96	8.94
762	251	Shell-Thick	INVSLU	-2.4125	-2.0671	8.54	8.94
762	251	Shell-Thick	INVSLU	-5.6522	-3.5743	3.20	0.75
762	251	Shell-Thick	INVSLU	-4.8062	-2.5406	3.02	0.75
762	251	Shell-Thick	INVSLU	-5.7644	-2.8407	3.02	0.91
762	251	Shell-Thick	INVSLU	-6.6372	-3.8819	3.20	0.91
763	252	Shell-Thick	INVSLE	-1.6662	-1.5106	4.32	4.48
763	252	Shell-Thick	INVSLE	-1.4939	-1.4146	4.03	4.48
763	252	Shell-Thick	INVSLE	-1.7189	-1.5074	4.03	4.74
763	252	Shell-Thick	INVSLE	-1.8889	-1.6050	4.32	4.74
763	252	Shell-Thick	INVSLE	-3.8058	-2.5900	1.96	0.67
763	252	Shell-Thick	INVSLE	-3.2751	-1.9676	1.84	0.67
763	252	Shell-Thick	INVSLE	-3.7633	-2.1412	1.84	0.77
763	252	Shell-Thick	INVSLE	-4.3019	-2.7584	1.96	0.77
763	252	Shell-Thick	INVSLU	-2.2494	-2.0393	7.07	8.90
763	252	Shell-Thick	INVSLU	-2.0168	-1.9097	6.57	8.90
763	252	Shell-Thick	INVSLU	-2.3205	-2.0350	6.57	9.34
763	252	Shell-Thick	INVSLU	-2.5500	-2.1668	7.07	9.34
763	252	Shell-Thick	INVSLU	-6.2868	-3.8418	2.64	0.90
763	252	Shell-Thick	INVSLU	-5.3406	-2.7393	2.49	0.90
763	252	Shell-Thick	INVSLU	-6.1339	-2.9857	2.49	1.04
763	252	Shell-Thick	INVSLU	-7.1000	-4.0960	2.64	1.04
764	253	Shell-Thick	INVSLE	-1.7849	-1.5875	3.45	4.72
764	253	Shell-Thick	INVSLE	-1.5963	-1.4797	3.22	4.72
764	253	Shell-Thick	INVSLE	-1.7756	-1.5536	3.22	4.93
764	253	Shell-Thick	INVSLE	-1.9622	-1.6629	3.45	4.93
764	253	Shell-Thick	INVSLE	-4.1029	-2.7324	1.56	0.77
764	253	Shell-Thick	INVSLE	-3.5342	-2.0817	1.47	0.77
764	253	Shell-Thick	INVSLE	-3.9240	-2.2207	1.47	0.85
764	253	Shell-Thick	INVSLE	-4.4986	-2.8676	1.56	0.85
764	253	Shell-Thick	INVSLU	-2.4097	-2.1431	5.65	9.31
764	253	Shell-Thick	INVSLU	-2.1550	-1.9975	5.24	9.31
764	253	Shell-Thick	INVSLU	-2.3971	-2.0974	5.24	9.66
764	253	Shell-Thick	INVSLU	-2.6490	-2.2449	5.65	9.66
764	253	Shell-Thick	INVSLU	-6.7908	-4.0601	2.11	1.03
764	253	Shell-Thick	INVSLU	-5.7815	-2.9005	1.98	1.03
764	253	Shell-Thick	INVSLU	-6.4152	-3.0980	1.98	1.15
764	253	Shell-Thick	INVSLU	-7.4399	-4.2646	2.11	1.15
765	254	Shell-Thick	INVSLE	-1.8800	-1.6487	2.61	4.92
765	254	Shell-Thick	INVSLE	-1.6760	-1.5314	2.43	4.92
765	254	Shell-Thick	INVSLE	-1.8114	-1.5867	2.43	5.08
765	254	Shell-Thick	INVSLE	-2.0136	-1.7053	2.61	5.08
765	254	Shell-Thick	INVSLE	-4.3417	-2.8462	1.18	0.85
765	254	Shell-Thick	INVSLE	-3.7351	-2.1729	1.11	0.85
765	254	Shell-Thick	INVSLE	-4.0297	-2.2770	1.11	0.91
765	254	Shell-Thick	INVSLE	-4.6401	-2.9478	1.18	0.91
765	254	Shell-Thick	INVSLU	-2.5381	-2.2258	4.27	9.64
765	254	Shell-Thick	INVSLU	-2.2626	-2.0673	3.96	9.64
765	254	Shell-Thick	INVSLU	-2.4454	-2.1420	3.96	9.91
765	254	Shell-Thick	INVSLU	-2.7184	-2.3022	4.27	9.91
765	254	Shell-Thick	INVSLU	-7.1962	-4.2348	1.59	1.14
765	254	Shell-Thick	INVSLU	-6.1228	-3.0297	1.49	1.14
765	254	Shell-Thick	INVSLU	-6.6020	-3.1775	1.49	1.23
765	254	Shell-Thick	INVSLU	-7.6859	-4.3885	1.59	1.23
766	255	Shell-Thick	INVSLE	-1.9515	-1.6948	1.78	5.07
766	255	Shell-Thick	INVSLE	-1.7388	-1.5703	1.66	5.07
766	255	Shell-Thick	INVSLE	-1.8314	-1.6081	1.66	5.18
766	255	Shell-Thick	INVSLE	-2.0427	-1.7335	1.78	5.18
766	255	Shell-Thick	INVSLE	-4.5196	-2.9315	0.81	0.91
766	255	Shell-Thick	INVSLE	-3.8928	-2.2418	0.75	0.91
766	255	Shell-Thick	INVSLE	-4.0943	-2.3131	0.75	0.95
766	255	Shell-Thick	INVSLE	-4.7236	-3.0013	0.81	0.95

766	255	Shell-Thick	INVSLU	-2.6345	-2.2880	2.92	9.89
766	255	Shell-Thick	INVSLU	-2.3474	-2.1199	2.71	9.89
766	255	Shell-Thick	INVSLU	-2.4724	-2.1709	2.71	10.08
766	255	Shell-Thick	INVSLU	-2.7577	-2.3403	2.92	10.08
766	255	Shell-Thick	INVSLU	-7.4977	-4.3656	1.09	1.23
766	255	Shell-Thick	INVSLU	-6.3906	-3.1271	1.02	1.23
766	255	Shell-Thick	INVSLU	-6.7184	-3.2285	1.02	1.28
766	255	Shell-Thick	INVSLU	-7.8324	-4.4713	1.09	1.28
767	256	Shell-Thick	INVSLE	-2.0041	-1.7268	0.97	5.17
767	256	Shell-Thick	INVSLE	-1.7841	-1.5976	0.90	5.17
767	256	Shell-Thick	INVSLE	-1.8346	-1.6180	0.90	5.23
767	256	Shell-Thick	INVSLE	-2.0538	-1.7478	0.97	5.23
767	256	Shell-Thick	INVSLE	-4.6493	-2.9907	0.44	0.95
767	256	Shell-Thick	INVSLE	-4.0036	-2.2907	0.41	0.95
767	256	Shell-Thick	INVSLE	-4.1137	-2.3292	0.41	0.98
767	256	Shell-Thick	INVSLE	-4.7605	-3.0286	0.44	0.98
767	256	Shell-Thick	INVSLU	-2.7055	-2.3312	1.59	10.07
767	256	Shell-Thick	INVSLU	-2.4085	-2.1568	1.48	10.07
767	256	Shell-Thick	INVSLU	-2.4767	-2.1843	1.48	10.17
767	256	Shell-Thick	INVSLU	-2.7726	-2.3595	1.59	10.17
767	256	Shell-Thick	INVSLU	-7.7169	-4.4564	0.59	1.28
767	256	Shell-Thick	INVSLU	-6.5774	-3.1964	0.56	1.28
767	256	Shell-Thick	INVSLU	-6.7565	-3.2511	0.56	1.32
767	256	Shell-Thick	INVSLU	-7.8993	-4.5138	0.59	1.32
768	257	Shell-Thick	INVSLE	-2.0367	-1.7449	0.17	5.23
768	257	Shell-Thick	INVSLE	-1.8156	-1.6137	0.16	5.23
768	257	Shell-Thick	INVSLE	-1.8245	-1.6171	0.16	5.24
768	257	Shell-Thick	INVSLE	-2.0454	-1.7485	0.17	5.24
768	257	Shell-Thick	INVSLE	-4.7267	-3.0240	7.707E-02	0.97
768	257	Shell-Thick	INVSLE	-4.0778	-2.3198	7.215E-02	0.97
768	257	Shell-Thick	INVSLE	-4.0973	-2.3264	7.215E-02	0.98
768	257	Shell-Thick	INVSLE	-4.7461	-3.0306	7.707E-02	0.98
768	257	Shell-Thick	INVSLU	-2.7495	-2.3556	0.28	10.17
768	257	Shell-Thick	INVSLU	-2.4510	-2.1785	0.26	10.17
768	257	Shell-Thick	INVSLU	-2.4630	-2.1831	0.26	10.19
768	257	Shell-Thick	INVSLU	-2.7612	-2.3605	0.28	10.19
768	257	Shell-Thick	INVSLU	-7.8462	-4.5073	0.10	1.32
768	257	Shell-Thick	INVSLU	-6.7013	-3.2377	9.740E-02	1.32
768	257	Shell-Thick	INVSLU	-6.7329	-3.2470	9.740E-02	1.32
768	257	Shell-Thick	INVSLU	-7.8779	-4.5173	0.10	1.32
769	258	Shell-Thick	INVSLE	-2.0523	-1.7496	-0.28	5.24
769	258	Shell-Thick	INVSLE	-1.8315	-1.6189	-0.27	5.24
769	258	Shell-Thick	INVSLE	-1.7988	-1.6054	-0.27	5.20
769	258	Shell-Thick	INVSLE	-2.0201	-1.7359	-0.28	5.20
769	258	Shell-Thick	INVSLE	-4.7601	-3.0322	-0.63	0.98
769	258	Shell-Thick	INVSLE	-4.1097	-2.3301	-0.59	0.98
769	258	Shell-Thick	INVSLE	-4.0387	-2.3048	-0.59	0.96
769	258	Shell-Thick	INVSLE	-4.6879	-3.0076	-0.63	0.96
769	258	Shell-Thick	INVSLU	-2.7707	-2.3620	-0.38	10.19
769	258	Shell-Thick	INVSLU	-2.4725	-2.1855	-0.36	10.19
769	258	Shell-Thick	INVSLU	-2.4284	-2.1673	-0.36	10.12
769	258	Shell-Thick	INVSLU	-2.7271	-2.3434	-0.38	10.12
769	258	Shell-Thick	INVSLU	-7.9001	-4.5195	-1.03	1.32
769	258	Shell-Thick	INVSLU	-6.7517	-3.2524	-0.96	1.32
769	258	Shell-Thick	INVSLU	-6.6360	-3.2163	-0.96	1.30
769	258	Shell-Thick	INVSLU	-7.7815	-4.4823	-1.03	1.30
770	259	Shell-Thick	INVSLE	-2.0488	-1.7408	-0.65	5.21
770	259	Shell-Thick	INVSLE	-1.8342	-1.6133	-0.61	5.21
770	259	Shell-Thick	INVSLE	-1.7597	-1.5826	-0.61	5.12
770	259	Shell-Thick	INVSLE	-1.9752	-1.7095	-0.65	5.12
770	259	Shell-Thick	INVSLE	-4.7427	-3.0152	-1.44	0.96
770	259	Shell-Thick	INVSLE	-4.1063	-2.3217	-1.34	0.96
770	259	Shell-Thick	INVSLE	-3.9443	-2.2637	-1.34	0.93
770	259	Shell-Thick	INVSLE	-4.5781	-2.9589	-1.44	0.93
770	259	Shell-Thick	INVSLU	-2.7658	-2.3501	-0.88	10.13
770	259	Shell-Thick	INVSLU	-2.4761	-2.1779	-0.82	10.13
770	259	Shell-Thick	INVSLU	-2.3756	-2.1365	-0.82	9.98
770	259	Shell-Thick	INVSLU	-2.6665	-2.3079	-0.88	9.98
770	259	Shell-Thick	INVSLU	-7.8666	-4.4930	-2.35	1.30
770	259	Shell-Thick	INVSLU	-6.7412	-3.2405	-2.18	1.30
770	259	Shell-Thick	INVSLU	-6.4776	-3.1582	-2.18	1.25
770	259	Shell-Thick	INVSLU	-7.5964	-4.4077	-2.35	1.25
771	260	Shell-Thick	INVSLE	-2.0276	-1.7183	-1.02	5.13
771	260	Shell-Thick	INVSLE	-1.8205	-1.5964	-0.95	5.13
771	260	Shell-Thick	INVSLE	-1.7036	-1.5484	-0.95	4.99
771	260	Shell-Thick	INVSLE	-1.9121	-1.6693	-1.02	4.99
771	260	Shell-Thick	INVSLE	-4.6797	-2.9723	-2.25	0.93
771	260	Shell-Thick	INVSLE	-4.0587	-2.2934	-2.10	0.93

771	260 Shell-Thick	INVSLE	-3.8043	-2.2031	-2.10	0.87
771	260 Shell-Thick	INVSLE	-4.4216	-2.8845	-2.25	0.87
771	260 Shell-Thick	INVSLU	-2.7372	-2.3197	-1.37	9.99
771	260 Shell-Thick	INVSLU	-2.4577	-2.1552	-1.29	9.99
771	260 Shell-Thick	INVSLU	-2.2999	-2.0904	-1.29	9.76
771	260 Shell-Thick	INVSLU	-2.5813	-2.2535	-1.37	9.76
771	260 Shell-Thick	INVSLU	-7.7552	-4.4266	-3.69	1.26
771	260 Shell-Thick	INVSLU	-6.6541	-3.2007	-3.42	1.26
771	260 Shell-Thick	INVSLU	-6.2403	-3.0724	-3.42	1.18
771	260 Shell-Thick	INVSLU	-7.3316	-4.2936	-3.69	1.18
772	261 Shell-Thick	INVSLE	-1.9848	-1.6817	-1.40	5.00
772	261 Shell-Thick	INVSLE	-1.7919	-1.5682	-1.31	5.00
772	261 Shell-Thick	INVSLE	-1.6316	-1.5018	-1.31	4.81
772	261 Shell-Thick	INVSLE	-1.8262	-1.6142	-1.40	4.81
772	261 Shell-Thick	INVSLE	-4.5605	-2.9033	-3.09	0.88
772	261 Shell-Thick	INVSLE	-3.9716	-2.2455	-2.88	0.88
772	261 Shell-Thick	INVSLE	-3.6232	-2.1207	-2.88	0.80
772	261 Shell-Thick	INVSLE	-4.2062	-2.7822	-3.09	0.80
772	261 Shell-Thick	INVSLU	-2.6795	-2.2703	-1.88	9.78
772	261 Shell-Thick	INVSLU	-2.4190	-2.1171	-1.77	9.78
772	261 Shell-Thick	INVSLU	-2.2026	-2.0275	-1.77	9.46
772	261 Shell-Thick	INVSLU	-2.4654	-2.1791	-1.88	9.46
772	261 Shell-Thick	INVSLU	-7.5472	-4.3198	-5.05	1.18
772	261 Shell-Thick	INVSLU	-6.4994	-3.1331	-4.69	1.18
772	261 Shell-Thick	INVSLU	-5.9327	-2.9557	-4.69	1.08
772	261 Shell-Thick	INVSLU	-6.9661	-4.1366	-5.05	1.08
773	262 Shell-Thick	INVSLE	-1.9213	-1.6301	-1.79	4.83
773	262 Shell-Thick	INVSLE	-1.7433	-1.5272	-1.68	4.83
773	262 Shell-Thick	INVSLE	-1.5381	-1.4423	-1.68	4.59
773	262 Shell-Thick	INVSLE	-1.7181	-1.5438	-1.79	4.59
773	262 Shell-Thick	INVSLE	-4.3885	-2.8059	-3.95	0.81
773	262 Shell-Thick	INVSLE	-3.8318	-2.1752	-3.68	0.81
773	262 Shell-Thick	INVSLE	-3.3863	-2.0162	-3.68	0.71
773	262 Shell-Thick	INVSLE	-3.9355	-2.6519	-3.95	0.71
773	262 Shell-Thick	INVSLU	-2.5937	-2.2006	-2.41	9.49
773	262 Shell-Thick	INVSLU	-2.3534	-2.0618	-2.27	9.49
773	262 Shell-Thick	INVSLU	-2.0764	-1.9471	-2.27	9.09
773	262 Shell-Thick	INVSLU	-2.3195	-2.0841	-2.41	9.09
773	262 Shell-Thick	INVSLU	-7.2496	-4.1693	-6.46	1.09
773	262 Shell-Thick	INVSLU	-6.2537	-3.0336	-6.00	1.09
773	262 Shell-Thick	INVSLU	-5.5296	-2.8080	-6.00	0.96
773	262 Shell-Thick	INVSLU	-6.5067	-3.9368	-6.46	0.96
774	263 Shell-Thick	INVSLE	-1.8306	-1.5629	-2.19	4.61
774	263 Shell-Thick	INVSLE	-1.6752	-1.4731	-2.07	4.61
774	263 Shell-Thick	INVSLE	-1.4235	-1.3682	-2.07	4.33
774	263 Shell-Thick	INVSLE	-1.5808	-1.4566	-2.19	4.33
774	263 Shell-Thick	INVSLE	-4.1473	-2.6795	-4.84	0.72
774	263 Shell-Thick	INVSLE	-3.6430	-2.0823	-4.52	0.72
774	263 Shell-Thick	INVSLE	-3.0975	-1.8861	-4.52	0.61
774	263 Shell-Thick	INVSLE	-3.5911	-2.4904	-4.84	0.61
774	263 Shell-Thick	INVSLU	-2.4713	-2.1099	-2.96	9.12
774	263 Shell-Thick	INVSLU	-2.2615	-1.9887	-2.79	9.12
774	263 Shell-Thick	INVSLU	-1.9218	-1.8470	-2.79	8.64
774	263 Shell-Thick	INVSLU	-2.1340	-1.9665	-2.96	8.64
774	263 Shell-Thick	INVSLU	-6.8338	-3.9743	-7.91	0.97
774	263 Shell-Thick	INVSLU	-5.9249	-2.9025	-7.36	0.97
774	263 Shell-Thick	INVSLU	-5.0387	-2.6240	-7.36	0.82
774	263 Shell-Thick	INVSLU	-5.9223	-3.6891	-7.91	0.82
775	264 Shell-Thick	INVSLE	-1.7129	-1.4787	-2.61	4.35
775	264 Shell-Thick	INVSLE	-1.5801	-1.4039	-2.47	4.35
775	264 Shell-Thick	INVSLE	-1.2796	-1.2787	-2.47	4.02
775	264 Shell-Thick	INVSLE	-1.4142	-1.3522	-2.61	4.02
775	264 Shell-Thick	INVSLE	-3.8402	-2.5211	-5.76	0.61
775	264 Shell-Thick	INVSLE	-3.3855	-1.9628	-5.39	0.61
775	264 Shell-Thick	INVSLE	-2.7352	-1.7301	-5.39	0.49
775	264 Shell-Thick	INVSLE	-3.1766	-2.2972	-5.76	0.49
775	264 Shell-Thick	INVSLU	-2.3125	-1.9962	-3.53	8.68
775	264 Shell-Thick	INVSLU	-2.1331	-1.8953	-3.34	8.68
775	264 Shell-Thick	INVSLU	-1.7274	-1.7262	-3.34	8.12
775	264 Shell-Thick	INVSLU	-1.9092	-1.8254	-3.53	8.12
775	264 Shell-Thick	INVSLU	-6.3071	-3.7300	-9.41	0.83
775	264 Shell-Thick	INVSLU	-5.4791	-2.7336	-8.78	0.83
775	264 Shell-Thick	INVSLU	-4.4233	-2.4033	-8.78	0.66
775	264 Shell-Thick	INVSLU	-5.2203	-3.3931	-9.41	0.66
776	265 Shell-Thick	INVSLE	-1.5587	-1.3765	-3.06	4.05
776	265 Shell-Thick	INVSLE	-1.4579	-1.3189	-2.91	4.05
776	265 Shell-Thick	INVSLE	-1.1061	-1.1720	-2.91	3.68
776	265 Shell-Thick	INVSLE	-1.2080	-1.2290	-3.06	3.68

776	265	Shell-Thick	INVSLE	-3.4426	-2.3297	-6.73	0.49
776	265	Shell-Thick	INVSLE	-3.0634	-1.8164	-6.31	0.49
776	265	Shell-Thick	INVSLE	-2.3041	-1.5443	-6.31	0.36
776	265	Shell-Thick	INVSLE	-2.6651	-2.0695	-6.73	0.36
776	265	Shell-Thick	INVSLU	-2.1043	-1.8583	-4.13	8.16
776	265	Shell-Thick	INVSLU	-1.9681	-1.7805	-3.92	8.16
776	265	Shell-Thick	INVSLU	-1.4933	-1.5822	-3.92	7.53
776	265	Shell-Thick	INVSLU	-1.6307	-1.6591	-4.13	7.53
776	265	Shell-Thick	INVSLU	-5.6273	-3.4350	-10.99	0.67
776	265	Shell-Thick	INVSLU	-4.9252	-2.5268	-10.27	0.67
776	265	Shell-Thick	INVSLU	-3.6934	-2.1406	-10.27	0.48
776	265	Shell-Thick	INVSLU	-4.3549	-3.0442	-10.99	0.48
777	266	Shell-Thick	INVSLE	-1.3681	-1.2553	-3.53	3.71
777	266	Shell-Thick	INVSLE	-1.2972	-1.2159	-3.37	3.71
777	266	Shell-Thick	INVSLE	-0.8908	-1.0470	-3.37	3.30
777	266	Shell-Thick	INVSLE	-0.9621	-1.0861	-3.53	3.30
777	266	Shell-Thick	INVSLE	-2.9598	-2.1027	-7.75	0.36
777	266	Shell-Thick	INVSLE	-2.6481	-1.6388	-7.29	0.36
777	266	Shell-Thick	INVSLE	-1.7731	-1.3273	-7.29	0.22
777	266	Shell-Thick	INVSLE	-2.0626	-1.8058	-7.75	0.22
777	266	Shell-Thick	INVSLU	-1.8469	-1.6947	-4.77	7.58
777	266	Shell-Thick	INVSLU	-1.7512	-1.6414	-4.54	7.58
777	266	Shell-Thick	INVSLU	-1.2026	-1.4134	-4.54	6.88
777	266	Shell-Thick	INVSLU	-1.2989	-1.4662	-4.77	6.88
777	266	Shell-Thick	INVSLU	-4.8056	-3.0852	-12.65	0.49
777	266	Shell-Thick	INVSLU	-4.2147	-2.2759	-11.85	0.49
777	266	Shell-Thick	INVSLU	-2.7962	-1.8339	-11.85	0.30
777	266	Shell-Thick	INVSLU	-3.3388	-2.6403	-12.65	0.30
778	267	Shell-Thick	INVSLE	-1.1266	-1.1136	-4.03	3.33
778	267	Shell-Thick	INVSLE	-1.0977	-1.0937	-3.86	3.33
778	267	Shell-Thick	INVSLE	-0.6335	-0.9027	-3.86	2.89
778	267	Shell-Thick	INVSLE	-0.6611	-0.9234	-4.03	2.89
778	267	Shell-Thick	INVSLE	-2.3554	-1.8375	-8.83	0.23
778	267	Shell-Thick	INVSLE	-2.1460	-1.4288	-8.33	0.23
778	267	Shell-Thick	INVSLE	-1.1496	-1.0781	-8.33	7.675E-02
778	267	Shell-Thick	INVSLE	-1.3297	-1.5062	-8.83	7.675E-02
778	267	Shell-Thick	INVSLU	-1.5209	-1.5034	-5.44	6.93
778	267	Shell-Thick	INVSLU	-1.4819	-1.4765	-5.21	6.93
778	267	Shell-Thick	INVSLU	-0.8552	-1.2187	-5.21	6.16
778	267	Shell-Thick	INVSLU	-0.8925	-1.2467	-5.44	6.16
778	267	Shell-Thick	INVSLU	-3.7803	-2.6769	-14.40	0.30
778	267	Shell-Thick	INVSLU	-3.3616	-1.9791	-13.52	0.30
778	267	Shell-Thick	INVSLU	-1.7482	-1.4817	-13.52	0.10
778	267	Shell-Thick	INVSLU	-2.1050	-2.1820	-14.40	0.10
779	268	Shell-Thick	INVSLE	-0.8351	-0.9517	-4.57	2.93
779	268	Shell-Thick	INVSLE	-0.8426	-0.9511	-4.40	2.93
779	268	Shell-Thick	INVSLE	-0.3158	-0.7370	-4.40	2.47
779	268	Shell-Thick	INVSLE	-0.3060	-0.7391	-4.57	2.47
779	268	Shell-Thick	INVSLE	-1.6398	-1.5354	-9.98	8.362E-02
779	268	Shell-Thick	INVSLE	-1.5166	-1.1843	-9.45	8.362E-02
779	268	Shell-Thick	INVSLE	-0.3898	-0.7916	-9.45	-6.354E-02
779	268	Shell-Thick	INVSLE	-0.4781	-1.1658	-9.98	-6.354E-02
779	268	Shell-Thick	INVSLU	-1.1274	-1.2848	-6.16	6.23
779	268	Shell-Thick	INVSLU	-1.1374	-1.2840	-5.94	6.23
779	268	Shell-Thick	INVSLU	-0.4264	-0.8549	-5.94	5.40
779	268	Shell-Thick	INVSLU	-0.4131	-0.9978	-6.16	5.40
779	268	Shell-Thick	INVSLU	-2.5730	-2.2123	-16.26	0.11
779	268	Shell-Thick	INVSLU	-2.2982	-1.6338	-15.31	0.11
779	268	Shell-Thick	INVSLU	-0.5373	-1.0768	-15.31	-8.579E-02
779	268	Shell-Thick	INVSLU	-0.6778	-1.6606	-16.26	-8.579E-02
780	269	Shell-Thick	INVSLE	-0.4725	-0.7668	-5.14	2.50
780	269	Shell-Thick	INVSLE	-0.5311	-0.7856	-4.98	2.50
780	269	Shell-Thick	INVSLE	0.4938	-0.4751	-4.98	2.02
780	269	Shell-Thick	INVSLE	0.5483	-0.5369	-5.14	2.02
780	269	Shell-Thick	INVSLE	-0.7610	-1.1895	-11.20	-5.759E-02
780	269	Shell-Thick	INVSLE	-0.7702	-0.9006	-10.65	-5.759E-02
780	269	Shell-Thick	INVSLE	0.0622	-0.5522	-10.65	-0.20
780	269	Shell-Thick	INVSLE	0.1260	-0.7941	-11.20	-0.20
780	269	Shell-Thick	INVSLU	-0.6379	-1.0352	-6.94	5.47
780	269	Shell-Thick	INVSLU	-0.7170	-1.0339	-6.72	5.47
780	269	Shell-Thick	INVSLU	0.9942	-0.3857	-6.72	4.59
780	269	Shell-Thick	INVSLU	1.0380	-0.7248	-6.94	4.59
780	269	Shell-Thick	INVSLU	-1.0955	-1.6796	-18.23	-7.775E-02
780	269	Shell-Thick	INVSLU	-1.0757	-1.2330	-17.22	-7.775E-02
780	269	Shell-Thick	INVSLU	0.0839	-0.7455	-17.22	-0.26
780	269	Shell-Thick	INVSLU	0.1701	-1.1107	-18.23	-0.26
781	270	Shell-Thick	INVSLE	0.2622	-0.5635	-5.75	2.06
781	270	Shell-Thick	INVSLE	0.1463	-0.5844	-5.62	2.06

781	270	Shell-Thick	INVSLE	1.5593	-0.1133	-5.62	1.58
781	270	Shell-Thick	INVSLE	1.7281	-0.3119	-5.75	1.58
781	270	Shell-Thick	INVSLE	-0.0410	-0.8116	-12.50	-0.19
781	270	Shell-Thick	INVSLE	-0.1400	-0.5994	-11.94	-0.19
781	270	Shell-Thick	INVSLE	0.5259	-0.3430	-11.94	-0.31
781	270	Shell-Thick	INVSLE	0.6320	-0.3756	-12.50	-0.31
781	270	Shell-Thick	INVSLU	0.6138	-0.7608	-7.77	4.68
781	270	Shell-Thick	INVSLU	0.4783	-0.5670	-7.58	4.68
781	270	Shell-Thick	INVSLU	2.7577	0.1532	-7.58	3.76
781	270	Shell-Thick	INVSLU	2.9991	-0.4211	-7.77	3.76
781	270	Shell-Thick	INVSLU	-0.0554	-1.1328	-20.32	-0.25
781	270	Shell-Thick	INVSLU	-0.1890	-0.8092	-19.28	-0.25
781	270	Shell-Thick	INVSLU	0.7100	-0.4631	-19.28	-0.42
781	270	Shell-Thick	INVSLU	0.8532	-0.5166	-20.32	-0.42
782	271	Shell-Thick	INVSLE	1.4972	-0.3358	-6.41	1.62
782	271	Shell-Thick	INVSLE	1.2202	-0.2199	-6.31	1.62
782	271	Shell-Thick	INVSLE	2.7899	0.2684	-6.31	1.14
782	271	Shell-Thick	INVSLE	3.1342	0.0603	-6.41	1.14
782	271	Shell-Thick	INVSLE	0.4877	-0.3830	-13.89	-0.30
782	271	Shell-Thick	INVSLE	0.3333	-0.3865	-13.34	-0.30
782	271	Shell-Thick	INVSLE	1.0767	-0.1193	-13.34	-0.39
782	271	Shell-Thick	INVSLE	1.2424	-0.0761	-13.89	-0.39
782	271	Shell-Thick	INVSLU	2.6678	-0.4378	-8.66	3.85
782	271	Shell-Thick	INVSLU	2.2486	-0.0266	-8.52	3.85
782	271	Shell-Thick	INVSLU	4.7765	0.7179	-8.52	2.92
782	271	Shell-Thick	INVSLU	5.3279	0.2185	-8.66	2.92
782	271	Shell-Thick	INVSLU	0.6584	-0.5242	-22.56	-0.41
782	271	Shell-Thick	INVSLU	0.4500	-0.5218	-21.50	-0.41
782	271	Shell-Thick	INVSLU	1.4536	-0.1610	-21.50	-0.53
782	271	Shell-Thick	INVSLU	1.6773	-0.1027	-22.56	-0.53
783	272	Shell-Thick	INVSLE	2.9191	0.0631	-7.12	1.19
783	272	Shell-Thick	INVSLE	2.5114	0.1669	-7.07	1.19
783	272	Shell-Thick	INVSLE	4.2527	0.7060	-7.07	0.74
783	272	Shell-Thick	INVSLE	4.7378	0.5505	-7.12	0.74
783	272	Shell-Thick	INVSLE	1.1118	-0.0966	-15.37	-0.39
783	272	Shell-Thick	INVSLE	0.9177	-0.1567	-14.85	-0.39
783	272	Shell-Thick	INVSLE	1.7463	0.1307	-14.85	-0.44
783	272	Shell-Thick	INVSLE	1.9544	0.1815	-15.37	-0.44
783	272	Shell-Thick	INVSLU	5.0149	0.2482	-9.62	3.02
783	272	Shell-Thick	INVSLU	4.3595	0.5422	-9.54	3.02
783	272	Shell-Thick	INVSLU	7.1592	1.3731	-9.54	2.10
783	272	Shell-Thick	INVSLU	7.9655	0.9784	-9.62	2.10
783	272	Shell-Thick	INVSLU	1.5009	-0.1304	-24.94	-0.52
783	272	Shell-Thick	INVSLU	1.2389	-0.2116	-23.88	-0.52
783	272	Shell-Thick	INVSLU	2.3575	0.1764	-23.88	-0.59
783	272	Shell-Thick	INVSLU	2.6384	0.2450	-24.94	-0.59
784	273	Shell-Thick	INVSLE	11.2005	2.1025	20.98	-3.651E-02
784	273	Shell-Thick	INVSLE	10.0790	2.1534	20.56	-3.651E-02
784	273	Shell-Thick	INVSLE	7.7019	1.5755	20.56	0.22
784	273	Shell-Thick	INVSLE	8.6855	1.6167	20.98	0.22
784	273	Shell-Thick	INVSLE	5.1701	0.9995	10.21	-0.15
784	273	Shell-Thick	INVSLE	4.8099	0.9965	10.37	-0.15
784	273	Shell-Thick	INVSLE	3.6142	0.7123	10.37	-0.17
784	273	Shell-Thick	INVSLE	3.9416	0.7373	10.21	-0.17
784	273	Shell-Thick	INVSLU	18.1935	3.3815	33.46	-4.929E-02
784	273	Shell-Thick	INVSLU	16.1891	3.4951	32.38	-4.929E-02
784	273	Shell-Thick	INVSLU	12.4421	2.5765	32.38	0.67
784	273	Shell-Thick	INVSLU	14.1866	2.6365	33.46	0.67
784	273	Shell-Thick	INVSLU	6.9796	1.3493	13.79	-0.27
784	273	Shell-Thick	INVSLU	6.4934	1.3453	14.00	-0.27
784	273	Shell-Thick	INVSLU	4.8791	0.9616	14.00	-0.23
784	273	Shell-Thick	INVSLU	5.3212	0.9954	13.79	-0.23
785	274	Shell-Thick	INVSLE	8.7699	1.5708	19.02	0.15
785	274	Shell-Thick	INVSLE	7.8199	1.6620	18.49	0.15
785	274	Shell-Thick	INVSLE	5.6707	1.1028	18.49	0.62
785	274	Shell-Thick	INVSLE	6.5015	1.0913	19.02	0.62
785	274	Shell-Thick	INVSLE	3.9429	0.7325	9.20	-0.18
785	274	Shell-Thick	INVSLE	3.6050	0.7155	9.24	-0.18
785	274	Shell-Thick	INVSLE	2.5328	0.4207	9.24	-0.21
785	274	Shell-Thick	INVSLE	2.8438	0.4558	9.20	-0.21
785	274	Shell-Thick	INVSLU	14.3674	2.5428	30.41	0.53
785	274	Shell-Thick	INVSLU	12.7076	2.7595	29.21	0.53
785	274	Shell-Thick	INVSLU	9.3096	1.8939	29.21	1.57
785	274	Shell-Thick	INVSLU	10.7431	1.8282	30.41	1.57
785	274	Shell-Thick	INVSLU	5.3229	0.9889	12.42	-0.24
785	274	Shell-Thick	INVSLU	4.8667	0.9660	12.47	-0.24
785	274	Shell-Thick	INVSLU	3.4193	0.5679	12.47	-0.28
785	274	Shell-Thick	INVSLU	3.8391	0.6153	12.42	-0.28

786	275	Shell-Thick	INVSLE	6.6602	1.0654	17.21	0.55	
786	275	Shell-Thick	INVSLE	5.9103	1.2083	16.59	0.55	
786	275	Shell-Thick	INVSLE	3.9681	0.6419	16.59	1.10	
786	275	Shell-Thick	INVSLE	4.6217	0.5632	17.21	1.10	
786	275	Shell-Thick	INVSLE	2.9085	0.4628	8.27	-0.22	
786	275	Shell-Thick	INVSLE	2.6188	0.4438	8.21	-0.22	
786	275	Shell-Thick	INVSLE	1.6583	0.1371	8.21	-0.16	
786	275	Shell-Thick	INVSLE	1.9284	0.1692	8.27	-0.16	
786	275	Shell-Thick	INVSLU	11.0106	1.7642	27.58	1.44	
786	275	Shell-Thick	INVSLU	9.7273	2.0949	26.31	1.44	
786	275	Shell-Thick	INVSLU	6.6466	1.2273	26.31	2.56	
786	275	Shell-Thick	INVSLU	7.7450	1.0200	27.58	2.56	
786	275	Shell-Thick	INVSLU	3.9265	0.6248	11.16	-0.29	
786	275	Shell-Thick	INVSLU	3.5354	0.5992	11.08	-0.29	
786	275	Shell-Thick	INVSLU	2.2387	0.1851	11.08	-0.22	
786	275	Shell-Thick	INVSLU	2.6033	0.2284	11.16	-0.22	
787	276	Shell-Thick	INVSLE	4.8532	0.5538	15.53	1.03	
787	276	Shell-Thick	INVSLE	4.2789	0.7598	14.85	1.03	
787	276	Shell-Thick	INVSLE	2.5310	0.2446	14.85	1.62	
787	276	Shell-Thick	INVSLE	3.0233	0.0932	15.53	1.62	
787	276	Shell-Thick	INVSLE	2.0457	0.1851	7.41	-0.17	
787	276	Shell-Thick	INVSLE	1.8072	0.1745	7.28	-0.17	
787	276	Shell-Thick	INVSLE	0.9495	-0.1167	7.28	-6.056E-02	
787	276	Shell-Thick	INVSLE	1.1727	-0.0959	7.41	-6.056E-02	
787	276	Shell-Thick	INVSLU	8.1088	0.9813	24.94	2.43	
787	276	Shell-Thick	INVSLU	7.1453	1.4385	23.63	2.43	
787	276	Shell-Thick	INVSLU	4.3649	0.6635	23.63	3.58	
787	276	Shell-Thick	INVSLU	5.1692	0.3124	24.94	3.58	
787	276	Shell-Thick	INVSLU	2.7617	0.2499	10.01	-0.23	
787	276	Shell-Thick	INVSLU	2.4397	0.2355	9.83	-0.23	
787	276	Shell-Thick	INVSLU	1.2818	-0.1575	9.83	-8.176E-02	
787	276	Shell-Thick	INVSLU	1.5832	-0.1295	10.01	-8.176E-02	
788	277	Shell-Thick	INVSLE	3.2827	0.0959	13.97	1.57	
788	277	Shell-Thick	INVSLE	2.9086	0.3693	13.27	1.57	
788	277	Shell-Thick	INVSLE	1.3362	-0.1272	13.27	2.18	
788	277	Shell-Thick	INVSLE	1.6464	-0.3501	13.97	2.18	
788	277	Shell-Thick	INVSLE	1.3186	-0.0741	6.63	-6.878E-02	
788	277	Shell-Thick	INVSLE	1.1468	-0.0698	6.45	-6.878E-02	
788	277	Shell-Thick	INVSLE	0.3814	-0.3520	6.45	8.618E-02	
788	277	Shell-Thick	INVSLE	0.5437	-0.3581	6.63	8.618E-02	
788	277	Shell-Thick	INVSLU	5.5602	0.2930	22.49	3.47	
788	277	Shell-Thick	INVSLU	4.9516	0.8784	21.18	3.47	
788	277	Shell-Thick	INVSLU	2.4434	0.1335	21.18	4.61	
788	277	Shell-Thick	INVSLU	2.9251	-0.3674	22.49	4.61	
788	277	Shell-Thick	INVSLU	1.7801	-0.1000	8.95	-9.286E-02	
788	277	Shell-Thick	INVSLU	1.5482	-0.0942	8.71	-9.286E-02	
788	277	Shell-Thick	INVSLU	0.5149	-0.4753	8.71	0.12	
788	277	Shell-Thick	INVSLU	0.7339	-0.4847	8.95	0.12	
789	278	Shell-Thick	INVSLE	1.9578	-0.3238	12.53	2.13	
789	278	Shell-Thick	INVSLE	1.7337	7.942E-04	11.83	2.13	
789	278	Shell-Thick	INVSLE	0.3259	-0.4439	11.83	2.74	
789	278	Shell-Thick	INVSLE	0.4967	-0.5776	12.53	2.74	
789	278	Shell-Thick	INVSLE	0.7189	-0.3443	5.91	7.668E-02	
789	278	Shell-Thick	INVSLE	0.6016	-0.2992	5.70	7.668E-02	
789	278	Shell-Thick	INVSLE	-0.0790	-0.5572	5.70	0.26	
789	278	Shell-Thick	INVSLE	0.0320	-0.7537	5.91	0.26	
789	278	Shell-Thick	INVSLU	3.3944	-0.3681	20.21	4.51	
789	278	Shell-Thick	INVSLU	3.0466	0.3487	18.93	4.51	
789	278	Shell-Thick	INVSLU	0.7954	-0.3126	18.93	5.62	
789	278	Shell-Thick	INVSLU	1.0356	-0.7798	20.21	5.62	
789	278	Shell-Thick	INVSLU	0.9706	-0.4679	7.98	0.10	
789	278	Shell-Thick	INVSLU	0.8122	-0.4039	7.70	0.10	
789	278	Shell-Thick	INVSLU	-0.1067	-0.7522	7.70	0.35	
789	278	Shell-Thick	INVSLU	0.0432	-1.0439	7.98	0.35	
790	279	Shell-Thick	INVSLE	0.8113	-0.5489	11.20	2.70	
790	279	Shell-Thick	INVSLE	0.7583	-0.3160	10.51	2.70	
790	279	Shell-Thick	INVSLE	-0.4431	-0.7283	10.51	3.30	
790	279	Shell-Thick	INVSLE	-0.3921	-0.7860	11.20	3.30	
790	279	Shell-Thick	INVSLE	0.2145	-0.7322	5.25	0.25	
790	279	Shell-Thick	INVSLE	0.1612	-0.5013	5.03	0.25	
790	279	Shell-Thick	INVSLE	-0.5003	-0.7399	5.03	0.45	
790	279	Shell-Thick	INVSLE	-0.4872	-1.1181	5.25	0.45	
790	279	Shell-Thick	INVSLU	1.5033	-0.7411	18.09	5.53	
790	279	Shell-Thick	INVSLU	1.4507	-0.1011	16.87	5.53	
790	279	Shell-Thick	INVSLU	-0.5665	-0.7149	16.87	6.60	
790	279	Shell-Thick	INVSLU	-0.5294	-1.0612	18.09	6.60	
790	279	Shell-Thick	INVSLU	0.2896	-1.0160	7.09	0.34	
790	279	Shell-Thick	INVSLU	0.2176	-0.6768	6.79	0.34	

790	279	Shell-Thick	INVSLU	-0.6839	-0.9988	6.79	0.60
790	279	Shell-Thick	INVSLU	-0.6720	-1.5593	7.09	0.60
791	280	Shell-Thick	INVSLE	-0.1426	-0.7557	9.96	3.25
791	280	Shell-Thick	INVSLE	-0.0755	-0.6028	9.31	3.25
791	280	Shell-Thick	INVSLE	-0.7369	-0.8959	9.31	3.83
791	280	Shell-Thick	INVSLE	-0.7319	-0.9684	9.96	3.83
791	280	Shell-Thick	INVSLE	-0.1976	-1.0897	4.65	0.44
791	280	Shell-Thick	INVSLE	-0.2029	-0.6832	4.42	0.44
791	280	Shell-Thick	INVSLE	-1.1940	-0.9685	4.42	0.64
791	280	Shell-Thick	INVSLE	-1.2934	-1.4341	4.65	0.64
791	280	Shell-Thick	INVSLU	-0.0787	-1.0202	16.12	6.52
791	280	Shell-Thick	INVSLU	0.0722	-0.5096	14.97	6.52
791	280	Shell-Thick	INVSLU	-0.9948	-1.0527	14.97	7.53
791	280	Shell-Thick	INVSLU	-0.9881	-1.3073	16.12	7.53
791	280	Shell-Thick	INVSLU	-0.2668	-1.5212	6.28	0.59
791	280	Shell-Thick	INVSLU	-0.2739	-0.9223	5.97	0.59
791	280	Shell-Thick	INVSLU	-1.7241	-1.3184	5.97	0.86
791	280	Shell-Thick	INVSLU	-1.9444	-2.0059	6.28	0.86
792	281	Shell-Thick	INVSLE	-0.5432	-0.9379	8.81	3.79
792	281	Shell-Thick	INVSLE	-0.4952	-0.8403	8.20	3.79
792	281	Shell-Thick	INVSLE	-0.9654	-1.0298	8.20	4.33
792	281	Shell-Thick	INVSLE	-1.0111	-1.1290	8.81	4.33
792	281	Shell-Thick	INVSLE	-0.9615	-1.4016	4.10	0.63
792	281	Shell-Thick	INVSLE	-0.7597	-0.8478	3.87	0.63
792	281	Shell-Thick	INVSLE	-1.7500	-1.1752	3.87	0.83
792	281	Shell-Thick	INVSLE	-1.9748	-1.7140	4.10	0.83
792	281	Shell-Thick	INVSLU	-0.7333	-1.2661	14.29	7.46
792	281	Shell-Thick	INVSLU	-0.6685	-0.8564	13.22	7.46
792	281	Shell-Thick	INVSLU	-1.3032	-1.3438	13.22	8.39
792	281	Shell-Thick	INVSLU	-1.3650	-1.5242	14.29	8.39
792	281	Shell-Thick	INVSLU	-1.4467	-1.9618	5.53	0.85
792	281	Shell-Thick	INVSLU	-1.0664	-1.1456	5.22	0.85
792	281	Shell-Thick	INVSLU	-2.6598	-1.6084	5.22	1.12
792	281	Shell-Thick	INVSLU	-3.0923	-2.4016	5.53	1.12
793	282	Shell-Thick	INVSLE	-0.8236	-1.0990	7.74	4.30
793	282	Shell-Thick	INVSLE	-0.7368	-0.9767	7.17	4.30
793	282	Shell-Thick	INVSLE	-1.1477	-1.1418	7.17	4.80
793	282	Shell-Thick	INVSLE	-1.2313	-1.2664	7.74	4.80
793	282	Shell-Thick	INVSLE	-1.6356	-1.6784	3.58	0.82
793	282	Shell-Thick	INVSLE	-1.3409	-1.0611	3.37	0.82
793	282	Shell-Thick	INVSLE	-2.2103	-1.3471	3.37	1.01
793	282	Shell-Thick	INVSLE	-2.5228	-1.9528	3.58	1.01
793	282	Shell-Thick	INVSLU	-1.1119	-1.4836	12.57	8.33
793	282	Shell-Thick	INVSLU	-0.9947	-1.1590	11.59	8.33
793	282	Shell-Thick	INVSLU	-1.5494	-1.5415	11.59	9.18
793	282	Shell-Thick	INVSLU	-1.6623	-1.7097	12.57	9.18
793	282	Shell-Thick	INVSLU	-2.5771	-2.3528	4.84	1.11
793	282	Shell-Thick	INVSLU	-2.0414	-1.4452	4.55	1.11
793	282	Shell-Thick	INVSLU	-3.4425	-1.8494	4.55	1.37
793	282	Shell-Thick	INVSLU	-4.0205	-2.7487	4.84	1.37
794	283	Shell-Thick	INVSLE	-1.0576	-1.2378	6.74	4.77
794	283	Shell-Thick	INVSLE	-0.9299	-1.0921	6.22	4.77
794	283	Shell-Thick	INVSLE	-1.2863	-1.2346	6.22	5.22
794	283	Shell-Thick	INVSLE	-1.4095	-1.3834	6.74	5.22
794	283	Shell-Thick	INVSLE	-2.2086	-1.9165	3.11	1.01
794	283	Shell-Thick	INVSLE	-1.8129	-1.2411	2.91	1.01
794	283	Shell-Thick	INVSLE	-2.5703	-1.4889	2.91	1.18
794	283	Shell-Thick	INVSLE	-2.9778	-2.1566	3.11	1.18
794	283	Shell-Thick	INVSLU	-1.4278	-1.6711	10.95	9.13
794	283	Shell-Thick	INVSLU	-1.2553	-1.4139	10.07	9.13
794	283	Shell-Thick	INVSLU	-1.7365	-1.6667	10.07	9.90
794	283	Shell-Thick	INVSLU	-1.9029	-1.8676	10.95	9.90
794	283	Shell-Thick	INVSLU	-3.5434	-2.7035	4.20	1.36
794	283	Shell-Thick	INVSLU	-2.8369	-1.6978	3.92	1.36
794	283	Shell-Thick	INVSLU	-4.0592	-2.0481	3.92	1.60
794	283	Shell-Thick	INVSLU	-4.7963	-3.0532	4.20	1.60
795	284	Shell-Thick	INVSLE	-1.2462	-1.3567	5.79	5.19
795	284	Shell-Thick	INVSLE	-1.0893	-1.1892	5.33	5.19
795	284	Shell-Thick	INVSLE	-1.3946	-1.3100	5.33	5.60
795	284	Shell-Thick	INVSLE	-1.5468	-1.4808	5.79	5.60
795	284	Shell-Thick	INVSLE	-2.6752	-2.1206	2.66	1.18
795	284	Shell-Thick	INVSLE	-2.2107	-1.3924	2.48	1.18
795	284	Shell-Thick	INVSLE	-2.8617	-1.6036	2.48	1.34
795	284	Shell-Thick	INVSLE	-3.3348	-2.3263	2.66	1.34
795	284	Shell-Thick	INVSLU	-1.6824	-1.8315	9.42	9.85
795	284	Shell-Thick	INVSLU	-1.4705	-1.6055	8.64	9.85
795	284	Shell-Thick	INVSLU	-1.8827	-1.7686	8.64	10.53
795	284	Shell-Thick	INVSLU	-2.0882	-1.9990	9.42	10.53

795	284	Shell-Thick	INVSLU	-4.3323	-3.0065	3.60	1.59
795	284	Shell-Thick	INVSLU	-3.5112	-1.9103	3.35	1.59
795	284	Shell-Thick	INVSLU	-4.5630	-2.2090	3.35	1.81
795	284	Shell-Thick	INVSLU	-5.4081	-3.3068	3.60	1.81
796	285	Shell-Thick	INVSLE	-1.4024	-1.4566	4.90	5.57
796	285	Shell-Thick	INVSLE	-1.2160	-1.2696	4.50	5.57
796	285	Shell-Thick	INVSLE	-1.4736	-1.3701	4.50	5.92
796	285	Shell-Thick	INVSLE	-1.6549	-1.5605	4.90	5.92
796	285	Shell-Thick	INVSLE	-3.0668	-2.2923	2.25	1.33
796	285	Shell-Thick	INVSLE	-2.5301	-1.5177	2.09	1.33
796	285	Shell-Thick	INVSLE	-3.0809	-1.6938	2.09	1.47
796	285	Shell-Thick	INVSLE	-3.6226	-2.4653	2.25	1.47
796	285	Shell-Thick	INVSLU	-1.8932	-1.9664	7.97	10.49
796	285	Shell-Thick	INVSLU	-1.6416	-1.7140	7.30	10.49
796	285	Shell-Thick	INVSLU	-1.9893	-1.8496	7.30	11.08
796	285	Shell-Thick	INVSLU	-2.2341	-2.1066	7.97	11.08
796	285	Shell-Thick	INVSLU	-4.9970	-3.2615	3.03	1.80
796	285	Shell-Thick	INVSLU	-4.0539	-2.0861	2.81	1.80
796	285	Shell-Thick	INVSLU	-4.9449	-2.3352	2.81	1.99
796	285	Shell-Thick	INVSLU	-5.9045	-3.5145	3.03	1.99
797	286	Shell-Thick	INVSLE	-1.5268	-1.5392	4.04	5.91
797	286	Shell-Thick	INVSLE	-1.3203	-1.3351	3.71	5.91
797	286	Shell-Thick	INVSLE	-1.5325	-1.4168	3.71	6.20
797	286	Shell-Thick	INVSLE	-1.7343	-1.6241	4.04	6.20
797	286	Shell-Thick	INVSLE	-3.3803	-2.4342	1.85	1.47
797	286	Shell-Thick	INVSLE	-2.7961	-1.6194	1.71	1.47
797	286	Shell-Thick	INVSLE	-3.2510	-1.7636	1.71	1.59
797	286	Shell-Thick	INVSLE	-3.8384	-2.5764	1.85	1.59
797	286	Shell-Thick	INVSLU	-2.0611	-2.0779	6.59	11.05
797	286	Shell-Thick	INVSLU	-1.7824	-1.8023	6.02	11.05
797	286	Shell-Thick	INVSLU	-2.0688	-1.9127	6.02	11.54
797	286	Shell-Thick	INVSLU	-2.3413	-2.1925	6.59	11.54
797	286	Shell-Thick	INVSLU	-5.5297	-3.4721	2.50	1.98
797	286	Shell-Thick	INVSLU	-4.5075	-2.2289	2.31	1.98
797	286	Shell-Thick	INVSLU	-5.2438	-2.4329	2.31	2.15
797	286	Shell-Thick	INVSLU	-6.2784	-3.6806	2.50	2.15
798	287	Shell-Thick	INVSLE	-1.6281	-1.6061	3.23	6.19
798	287	Shell-Thick	INVSLE	-1.4023	-1.3875	2.95	6.19
798	287	Shell-Thick	INVSLE	-1.5713	-1.4516	2.95	6.42
798	287	Shell-Thick	INVSLE	-1.7929	-1.6730	3.23	6.42
798	287	Shell-Thick	INVSLE	-3.6377	-2.5494	1.47	1.59
798	287	Shell-Thick	INVSLE	-3.0054	-1.7013	1.36	1.59
798	287	Shell-Thick	INVSLE	-3.3685	-1.8143	1.36	1.69
798	287	Shell-Thick	INVSLE	-4.0022	-2.6617	1.47	1.69
798	287	Shell-Thick	INVSLU	-2.1980	-2.1682	5.26	11.52
798	287	Shell-Thick	INVSLU	-1.8931	-1.8732	4.80	11.52
798	287	Shell-Thick	INVSLU	-2.1212	-1.9597	4.80	11.92
798	287	Shell-Thick	INVSLU	-2.4205	-2.2586	5.26	11.92
798	287	Shell-Thick	INVSLU	-5.9681	-3.6433	1.99	2.14
798	287	Shell-Thick	INVSLU	-4.8644	-2.3438	1.84	2.14
798	287	Shell-Thick	INVSLU	-5.4527	-2.5038	1.84	2.28
798	287	Shell-Thick	INVSLU	-6.5642	-3.8081	1.99	2.28
799	288	Shell-Thick	INVSLE	-1.7066	-1.6585	2.43	6.41
799	288	Shell-Thick	INVSLE	-1.4689	-1.4283	2.23	6.41
799	288	Shell-Thick	INVSLE	-1.5962	-1.4761	2.23	6.59
799	288	Shell-Thick	INVSLE	-1.8306	-1.7086	2.43	6.59
799	288	Shell-Thick	INVSLE	-3.8363	-2.6395	1.11	1.68
799	288	Shell-Thick	INVSLE	-3.1757	-1.7648	1.02	1.68
799	288	Shell-Thick	INVSLE	-3.4498	-1.8496	1.02	1.76
799	288	Shell-Thick	INVSLE	-4.1111	-2.7239	1.11	1.76
799	288	Shell-Thick	INVSLU	-2.3039	-2.2390	3.97	11.90
799	288	Shell-Thick	INVSLU	-1.9829	-1.9282	3.62	11.90
799	288	Shell-Thick	INVSLU	-2.1549	-1.9928	3.62	12.20
799	288	Shell-Thick	INVSLU	-2.4713	-2.3067	3.97	12.20
799	288	Shell-Thick	INVSLU	-6.3060	-3.7770	1.50	2.27
799	288	Shell-Thick	INVSLU	-5.1550	-2.4330	1.38	2.27
799	288	Shell-Thick	INVSLU	-5.5992	-2.5530	1.38	2.37
799	288	Shell-Thick	INVSLU	-6.7556	-3.9013	1.50	2.37
800	289	Shell-Thick	INVSLE	-1.7680	-1.6979	1.66	6.59
800	289	Shell-Thick	INVSLE	-1.5195	-1.4590	1.52	6.59
800	289	Shell-Thick	INVSLE	-1.6065	-1.4912	1.52	6.71
800	289	Shell-Thick	INVSLE	-1.8525	-1.7318	1.66	6.71
800	289	Shell-Thick	INVSLE	-3.9915	-2.7072	0.76	1.76
800	289	Shell-Thick	INVSLE	-3.3032	-1.8131	0.70	1.76
800	289	Shell-Thick	INVSLE	-3.4907	-1.8702	0.70	1.81
800	289	Shell-Thick	INVSLE	-4.1790	-2.7644	0.76	1.81
800	289	Shell-Thick	INVSLU	-2.3868	-2.2922	2.71	12.19
800	289	Shell-Thick	INVSLU	-2.0513	-1.9697	2.47	12.19

800	289	Shell-Thick	INVSLU	-2.1688	-2.0131	2.47	12.40
800	289	Shell-Thick	INVSLU	-2.5009	-2.3380	2.71	12.40
800	289	Shell-Thick	INVSLU	-6.5699	-3.8777	1.02	2.37
800	289	Shell-Thick	INVSLU	-5.3716	-2.5008	0.94	2.37
800	289	Shell-Thick	INVSLU	-5.6756	-2.5816	0.94	2.44
800	289	Shell-Thick	INVSLU	-6.8768	-3.9619	1.02	2.44
801	290	Shell-Thick	INVSLE	-1.8116	-1.7249	0.91	6.71
801	290	Shell-Thick	INVSLE	-1.5587	-1.4804	0.83	6.71
801	290	Shell-Thick	INVSLE	-1.6062	-1.4978	0.83	6.78
801	290	Shell-Thick	INVSLE	-1.8576	-1.7434	0.91	6.78
801	290	Shell-Thick	INVSLE	-4.0994	-2.7536	0.41	1.81
801	290	Shell-Thick	INVSLE	-3.4003	-1.8471	0.38	1.81
801	290	Shell-Thick	INVSLE	-3.5027	-1.8781	0.38	1.84
801	290	Shell-Thick	INVSLE	-4.2016	-2.7848	0.41	1.84
801	290	Shell-Thick	INVSLU	-2.4457	-2.3287	1.48	12.39
801	290	Shell-Thick	INVSLU	-2.1043	-1.9985	1.35	12.39
801	290	Shell-Thick	INVSLU	-2.1684	-2.0220	1.35	12.51
801	290	Shell-Thick	INVSLU	-2.5078	-2.3535	1.48	12.51
801	290	Shell-Thick	INVSLU	-6.7523	-3.9464	0.56	2.44
801	290	Shell-Thick	INVSLU	-5.5359	-2.5485	0.51	2.44
801	290	Shell-Thick	INVSLU	-5.7018	-2.5925	0.51	2.48
801	290	Shell-Thick	INVSLU	-6.9196	-3.9924	0.56	2.48
802	291	Shell-Thick	INVSLE	-1.8413	-1.7405	0.16	6.78
802	291	Shell-Thick	INVSLE	-1.5853	-1.4933	0.15	6.78
802	291	Shell-Thick	INVSLE	-1.5937	-1.4962	0.15	6.79
802	291	Shell-Thick	INVSLE	-1.8494	-1.7436	0.16	6.79
802	291	Shell-Thick	INVSLE	-4.1706	-2.7801	7.255E-02	1.84
802	291	Shell-Thick	INVSLE	-3.4619	-1.8684	6.671E-02	1.84
802	291	Shell-Thick	INVSLE	-3.4800	-1.8737	6.671E-02	1.84
802	291	Shell-Thick	INVSLE	-4.1884	-2.7856	7.255E-02	1.84
802	291	Shell-Thick	INVSLU	-2.4858	-2.3496	0.26	12.50
802	291	Shell-Thick	INVSLU	-2.1401	-2.0159	0.24	12.50
802	291	Shell-Thick	INVSLU	-2.1514	-2.0199	0.24	12.52
802	291	Shell-Thick	INVSLU	-2.4966	-2.3539	0.26	12.52
802	291	Shell-Thick	INVSLU	-6.8717	-3.9858	9.794E-02	2.48
802	291	Shell-Thick	INVSLU	-5.6381	-2.5786	9.006E-02	2.48
802	291	Shell-Thick	INVSLU	-5.6674	-2.5861	9.006E-02	2.49
802	291	Shell-Thick	INVSLU	-6.9008	-3.9939	9.794E-02	2.49
803	292	Shell-Thick	INVSLE	-1.8554	-1.7447	-0.27	6.79
803	292	Shell-Thick	INVSLE	-1.6022	-1.4981	-0.25	6.79
803	292	Shell-Thick	INVSLE	-1.5715	-1.4866	-0.25	6.74
803	292	Shell-Thick	INVSLE	-1.8255	-1.7327	-0.27	6.74
803	292	Shell-Thick	INVSLE	-4.1994	-2.7872	-0.59	1.84
803	292	Shell-Thick	INVSLE	-3.4967	-1.8776	-0.54	1.84
803	292	Shell-Thick	INVSLE	-3.4307	-1.8571	-0.54	1.82
803	292	Shell-Thick	INVSLE	-4.1329	-2.7670	-0.59	1.82
803	292	Shell-Thick	INVSLU	-2.5048	-2.3554	-0.36	12.52
803	292	Shell-Thick	INVSLU	-2.1629	-2.0224	-0.33	12.52
803	292	Shell-Thick	INVSLU	-2.1216	-2.0068	-0.33	12.45
803	292	Shell-Thick	INVSLU	-2.4644	-2.3392	-0.36	12.45
803	292	Shell-Thick	INVSLU	-6.9175	-3.9961	-0.96	2.49
803	292	Shell-Thick	INVSLU	-5.6937	-2.5917	-0.87	2.49
803	292	Shell-Thick	INVSLU	-5.5867	-2.5627	-0.87	2.46
803	292	Shell-Thick	INVSLU	-6.8086	-3.9664	-0.96	2.46
804	293	Shell-Thick	INVSLE	-1.8562	-1.7378	-0.61	6.75
804	293	Shell-Thick	INVSLE	-1.6069	-1.4947	-0.56	6.75
804	293	Shell-Thick	INVSLE	-1.5370	-1.4686	-0.56	6.65
804	293	Shell-Thick	INVSLE	-1.7881	-1.7104	-0.61	6.65
804	293	Shell-Thick	INVSLE	-4.1928	-2.7749	-1.34	1.82
804	293	Shell-Thick	INVSLE	-3.4973	-1.8745	-1.22	1.82
804	293	Shell-Thick	INVSLE	-3.3466	-1.8283	-1.22	1.78
804	293	Shell-Thick	INVSLE	-4.0416	-2.7289	-1.34	1.78
804	293	Shell-Thick	INVSLU	-2.5059	-2.3460	-0.82	12.46
804	293	Shell-Thick	INVSLU	-2.1694	-2.0179	-0.76	12.46
804	293	Shell-Thick	INVSLU	-2.0749	-1.9826	-0.76	12.29
804	293	Shell-Thick	INVSLU	-2.4140	-2.3091	-0.82	12.29
804	293	Shell-Thick	INVSLU	-6.9023	-3.9776	-2.19	2.46
804	293	Shell-Thick	INVSLU	-5.6894	-2.5876	-1.99	2.46
804	293	Shell-Thick	INVSLU	-5.4450	-2.5222	-1.99	2.41
804	293	Shell-Thick	INVSLU	-6.6547	-3.9100	-2.19	2.41
805	294	Shell-Thick	INVSLE	-1.8407	-1.7194	-0.96	6.65
805	294	Shell-Thick	INVSLE	-1.6016	-1.4831	-0.88	6.65
805	294	Shell-Thick	INVSLE	-1.4917	-1.4417	-0.88	6.49
805	294	Shell-Thick	INVSLE	-1.7336	-1.6761	-0.96	6.49
805	294	Shell-Thick	INVSLE	-4.1419	-2.7428	-2.10	1.78
805	294	Shell-Thick	INVSLE	-3.4699	-1.8592	-1.92	1.78
805	294	Shell-Thick	INVSLE	-3.2334	-1.7858	-1.92	1.72
805	294	Shell-Thick	INVSLE	-3.9043	-2.6700	-2.10	1.72

805	294	Shell-Thick	INVSLU	-2.4850	-2.3212	-1.29	12.30
805	294	Shell-Thick	INVSLU	-2.1621	-2.0022	-1.19	12.30
805	294	Shell-Thick	INVSLU	-2.0138	-1.9463	-1.19	12.03
805	294	Shell-Thick	INVSLU	-2.3403	-2.2628	-1.29	12.03
805	294	Shell-Thick	INVSLU	-6.8104	-3.9295	-3.43	2.41
805	294	Shell-Thick	INVSLU	-5.6364	-2.5664	-3.13	2.41
805	294	Shell-Thick	INVSLU	-5.2531	-2.4624	-3.13	2.32
805	294	Shell-Thick	INVSLU	-6.4215	-3.8225	-3.43	2.32
806	295	Shell-Thick	INVSLE	-1.8102	-1.6889	-1.32	6.50
806	295	Shell-Thick	INVSLE	-1.5822	-1.4624	-1.22	6.50
806	295	Shell-Thick	INVSLE	-1.4312	-1.4051	-1.22	6.29
806	295	Shell-Thick	INVSLE	-1.6629	-1.6292	-1.32	6.29
806	295	Shell-Thick	INVSLE	-4.0517	-2.6895	-2.88	1.72
806	295	Shell-Thick	INVSLE	-3.4036	-1.8298	-2.64	1.72
806	295	Shell-Thick	INVSLE	-3.0791	-1.7287	-2.64	1.63
806	295	Shell-Thick	INVSLE	-3.7256	-2.5894	-2.88	1.63
806	295	Shell-Thick	INVSLU	-2.4438	-2.2800	-1.78	12.05
806	295	Shell-Thick	INVSLU	-2.1359	-1.9742	-1.64	12.05
806	295	Shell-Thick	INVSLU	-1.9322	-1.8969	-1.64	11.69
806	295	Shell-Thick	INVSLU	-2.2449	-2.1994	-1.78	11.69
806	295	Shell-Thick	INVSLU	-6.6511	-3.8499	-4.70	2.32
806	295	Shell-Thick	INVSLU	-5.5157	-2.5253	-4.29	2.32
806	295	Shell-Thick	INVSLU	-4.9900	-2.3822	-4.29	2.20
806	295	Shell-Thick	INVSLU	-6.1177	-3.7029	-4.70	2.20
807	296	Shell-Thick	INVSLE	-1.7597	-1.6455	-1.69	6.30
807	296	Shell-Thick	INVSLE	-1.5498	-1.4319	-1.56	6.30
807	296	Shell-Thick	INVSLE	-1.3565	-1.3574	-1.56	6.03
807	296	Shell-Thick	INVSLE	-1.5705	-1.5682	-1.69	6.03
807	296	Shell-Thick	INVSLE	-3.9088	-2.6139	-3.69	1.63
807	296	Shell-Thick	INVSLE	-3.3031	-1.7856	-3.38	1.63
807	296	Shell-Thick	INVSLE	-2.8883	-1.6542	-3.38	1.52
807	296	Shell-Thick	INVSLE	-3.4907	-2.4846	-3.69	1.52
807	296	Shell-Thick	INVSLU	-2.3756	-2.2214	-2.28	11.72
807	296	Shell-Thick	INVSLU	-2.0923	-1.9330	-2.11	11.72
807	296	Shell-Thick	INVSLU	-1.8313	-1.8325	-2.11	11.26
807	296	Shell-Thick	INVSLU	-2.1202	-2.1171	-2.28	11.26
807	296	Shell-Thick	INVSLU	-6.4010	-3.7369	-6.01	2.21
807	296	Shell-Thick	INVSLU	-5.3363	-2.4636	-5.49	2.21
807	296	Shell-Thick	INVSLU	-4.6646	-2.2776	-5.49	2.06
807	296	Shell-Thick	INVSLU	-5.7175	-3.5472	-6.01	2.06
808	297	Shell-Thick	INVSLE	-1.6898	-1.5880	-2.07	6.05
808	297	Shell-Thick	INVSLE	-1.4987	-1.3900	-1.92	6.05
808	297	Shell-Thick	INVSLE	-1.2609	-1.2973	-1.92	5.72
808	297	Shell-Thick	INVSLE	-1.4567	-1.4922	-2.07	5.72
808	297	Shell-Thick	INVSLE	-3.7170	-2.5135	-4.53	1.53
808	297	Shell-Thick	INVSLE	-3.1528	-1.7234	-4.16	1.53
808	297	Shell-Thick	INVSLE	-2.6437	-1.5608	-4.16	1.39
808	297	Shell-Thick	INVSLE	-3.2033	-2.3539	-4.53	1.39
808	297	Shell-Thick	INVSLU	-2.2812	-2.1438	-2.80	11.30
808	297	Shell-Thick	INVSLU	-2.0232	-1.8764	-2.60	11.30
808	297	Shell-Thick	INVSLU	-1.7022	-1.7514	-2.60	10.75
808	297	Shell-Thick	INVSLU	-1.9665	-2.0144	-2.80	10.75
808	297	Shell-Thick	INVSLU	-6.0678	-3.5868	-7.37	2.06
808	297	Shell-Thick	INVSLU	-5.0709	-2.3765	-6.75	2.06
808	297	Shell-Thick	INVSLU	-4.2473	-2.1466	-6.75	1.88
808	297	Shell-Thick	INVSLU	-5.2287	-3.3532	-7.37	1.88
809	298	Shell-Thick	INVSLE	-1.5929	-1.5149	-2.48	5.74
809	298	Shell-Thick	INVSLE	-1.4291	-1.3355	-2.31	5.74
809	298	Shell-Thick	INVSLE	-1.1448	-1.2231	-2.31	5.37
809	298	Shell-Thick	INVSLE	-1.3131	-1.3994	-2.48	5.37
809	298	Shell-Thick	INVSLE	-3.4566	-2.3862	-5.40	1.40
809	298	Shell-Thick	INVSLE	-2.9568	-1.6418	-4.97	1.40
809	298	Shell-Thick	INVSLE	-2.3498	-1.4451	-4.97	1.25
809	298	Shell-Thick	INVSLE	-2.8416	-2.1946	-5.40	1.25
809	298	Shell-Thick	INVSLU	-2.1504	-2.0451	-3.35	10.78
809	298	Shell-Thick	INVSLU	-1.9293	-1.8029	-3.12	10.78
809	298	Shell-Thick	INVSLU	-1.5454	-1.6512	-3.12	10.14
809	298	Shell-Thick	INVSLU	-1.7726	-1.8892	-3.35	10.14
809	298	Shell-Thick	INVSLU	-5.6179	-3.3965	-8.79	1.89
809	298	Shell-Thick	INVSLU	-4.7283	-2.2624	-8.06	1.89
809	298	Shell-Thick	INVSLU	-3.7472	-1.9842	-8.06	1.68
809	298	Shell-Thick	INVSLU	-4.6142	-3.1167	-8.79	1.68
810	299	Shell-Thick	INVSLE	-1.4690	-1.4249	-2.91	5.39
810	299	Shell-Thick	INVSLE	-1.3322	-1.2663	-2.72	5.39
810	299	Shell-Thick	INVSLE	-0.9982	-1.1328	-2.72	4.96
810	299	Shell-Thick	INVSLE	-1.1394	-1.2883	-2.91	4.96
810	299	Shell-Thick	INVSLE	-3.1318	-2.2293	-6.33	1.25
810	299	Shell-Thick	INVSLE	-2.6926	-1.5370	-5.84	1.25

810	299 Shell-Thick	INVSLE	-1.9818	-1.3044	-5.84	1.08
810	299 Shell-Thick	INVSLE	-2.4102	-2.0037	-6.33	1.08
810	299 Shell-Thick	INVSLU	-1.9832	-1.9236	-3.93	10.19
810	299 Shell-Thick	INVSLU	-1.7985	-1.7096	-3.67	10.19
810	299 Shell-Thick	INVSLU	-1.3476	-1.5033	-3.67	9.46
810	299 Shell-Thick	INVSLU	-1.5382	-1.7392	-3.93	9.46
810	299 Shell-Thick	INVSLU	-5.0600	-3.1622	-10.28	1.69
810	299 Shell-Thick	INVSLU	-4.2702	-2.1155	-9.45	1.69
810	299 Shell-Thick	INVSLU	-3.1225	-1.7866	-9.45	1.46
810	299 Shell-Thick	INVSLU	-3.8838	-2.8334	-10.28	1.46
811	300 Shell-Thick	INVSLE	-1.3068	-1.3158	-3.38	4.99
811	300 Shell-Thick	INVSLE	-1.2077	-1.1807	-3.16	4.99
811	300 Shell-Thick	INVSLE	-0.8209	-1.0250	-3.16	4.51
811	300 Shell-Thick	INVSLE	-0.9233	-1.1578	-3.38	4.51
811	300 Shell-Thick	INVSLE	-2.7141	-2.0393	-7.30	1.09
811	300 Shell-Thick	INVSLE	-2.3650	-1.4063	-6.76	1.09
811	300 Shell-Thick	INVSLE	-1.5452	-1.1364	-6.76	0.90
811	300 Shell-Thick	INVSLE	-1.8778	-1.7802	-7.30	0.90
811	300 Shell-Thick	INVSLU	-1.7642	-1.7764	-4.56	9.51
811	300 Shell-Thick	INVSLU	-1.6304	-1.5939	-4.27	9.51
811	300 Shell-Thick	INVSLU	-1.1082	-1.2656	-4.27	8.69
811	300 Shell-Thick	INVSLU	-1.2465	-1.5631	-4.56	8.69
811	300 Shell-Thick	INVSLU	-4.3460	-2.8781	-11.86	1.47
811	300 Shell-Thick	INVSLU	-3.7071	-1.9323	-10.92	1.47
811	300 Shell-Thick	INVSLU	-2.3851	-1.5509	-10.92	1.22
811	300 Shell-Thick	INVSLU	-2.9845	-2.5018	-11.86	1.22
812	301 Shell-Thick	INVSLE	-1.1060	-1.1870	-3.87	4.54
812	301 Shell-Thick	INVSLE	-1.0426	-1.0767	-3.65	4.54
812	301 Shell-Thick	INVSLE	-0.5985	-0.8968	-3.65	4.02
812	301 Shell-Thick	INVSLE	-0.6644	-1.0054	-3.87	4.02
812	301 Shell-Thick	INVSLE	-2.2097	-1.8155	-8.35	0.91
812	301 Shell-Thick	INVSLE	-1.9427	-1.2470	-7.75	0.91
812	301 Shell-Thick	INVSLE	-1.0055	-0.9358	-7.75	0.72
812	301 Shell-Thick	INVSLE	-1.2513	-1.5182	-8.35	0.72
812	301 Shell-Thick	INVSLU	-1.4931	-1.6025	-5.23	8.75
812	301 Shell-Thick	INVSLU	-1.4075	-1.4444	-4.93	8.75
812	301 Shell-Thick	INVSLU	-0.8080	-0.9810	-4.93	7.85
812	301 Shell-Thick	INVSLU	-0.8969	-1.3573	-5.23	7.85
812	301 Shell-Thick	INVSLU	-3.4896	-2.5452	-13.53	1.23
812	301 Shell-Thick	INVSLU	-2.9864	-1.7089	-12.50	1.23
812	301 Shell-Thick	INVSLU	-1.4774	-1.2692	-12.50	0.97
812	301 Shell-Thick	INVSLU	-1.9320	-2.1265	-13.53	0.97
813	302 Shell-Thick	INVSLE	-0.8499	-1.0353	-4.41	4.05
813	302 Shell-Thick	INVSLE	-0.8354	-0.9514	-4.18	4.05
813	302 Shell-Thick	INVSLE	-0.3298	-0.7051	-4.18	3.49
813	302 Shell-Thick	INVSLE	-0.3444	-0.8324	-4.41	3.49
813	302 Shell-Thick	INVSLE	-1.5786	-1.5511	-9.46	0.72
813	302 Shell-Thick	INVSLE	-1.4315	-1.0536	-8.82	0.72
813	302 Shell-Thick	INVSLE	-0.3702	-0.7487	-8.82	0.52
813	302 Shell-Thick	INVSLE	-0.4873	-1.2224	-9.46	0.52
813	302 Shell-Thick	INVSLU	-1.1473	-1.3976	-5.95	7.91
813	302 Shell-Thick	INVSLU	-1.1277	-1.1721	-5.64	7.91
813	302 Shell-Thick	INVSLU	-0.4170	-0.6547	-5.64	6.94
813	302 Shell-Thick	INVSLU	-0.4650	-1.1237	-5.95	6.94
813	302 Shell-Thick	INVSLU	-2.4237	-2.1713	-15.32	0.98
813	302 Shell-Thick	INVSLU	-2.1229	-1.4377	-14.20	0.98
813	302 Shell-Thick	INVSLU	-0.5058	-1.0107	-14.20	0.71
813	302 Shell-Thick	INVSLU	-0.6792	-1.7087	-15.32	0.71
814	303 Shell-Thick	INVSLE	-0.5378	-0.8624	-4.99	3.53
814	303 Shell-Thick	INVSLE	-0.5676	-0.8048	-4.76	3.53
814	303 Shell-Thick	INVSLE	0.4066	-0.4326	-4.76	2.94
814	303 Shell-Thick	INVSLE	0.4030	-0.6343	-4.99	2.94
814	303 Shell-Thick	INVSLE	-0.8308	-1.2518	-10.66	0.53
814	303 Shell-Thick	INVSLE	-0.7903	-0.8284	-9.98	0.53
814	303 Shell-Thick	INVSLE	0.0056	-0.5758	-9.98	0.33
814	303 Shell-Thick	INVSLE	0.0371	-0.8804	-10.66	0.33
814	303 Shell-Thick	INVSLU	-0.7260	-1.1643	-6.73	7.02
814	303 Shell-Thick	INVSLU	-0.7662	-0.8557	-6.43	7.02
814	303 Shell-Thick	INVSLU	0.8715	-0.2665	-6.43	5.97
814	303 Shell-Thick	INVSLU	0.8274	-0.8563	-6.73	5.97
814	303 Shell-Thick	INVSLU	-1.1706	-1.7483	-17.23	0.72
814	303 Shell-Thick	INVSLU	-1.1003	-1.1219	-16.04	0.72
814	303 Shell-Thick	INVSLU	0.0076	-0.7773	-16.04	0.45
814	303 Shell-Thick	INVSLU	0.0500	-1.2254	-17.23	0.45
815	304 Shell-Thick	INVSLE	0.0861	-0.6631	-5.62	2.99
815	304 Shell-Thick	INVSLE	-0.0250	-0.5592	-5.40	2.99
815	304 Shell-Thick	INVSLE	1.3159	-0.1317	-5.40	2.38
815	304 Shell-Thick	INVSLE	1.4766	-0.4178	-5.62	2.38

815	304	Shell-Thick	INVSLE	-0.1468	-0.9035	-11.94	0.34	
815	304	Shell-Thick	INVSLE	-0.2352	-0.6319	-11.25	0.34	
815	304	Shell-Thick	INVSLE	0.4112	-0.3831	-11.25	0.15	
815	304	Shell-Thick	INVSLE	0.5050	-0.5089	-11.94	0.15	
815	304	Shell-Thick	INVSLU	0.3561	-0.8952	-7.59	6.06	
815	304	Shell-Thick	INVSLU	0.2187	-0.4749	-7.29	6.06	
815	304	Shell-Thick	INVSLU	2.3650	0.1598	-7.29	4.96	
815	304	Shell-Thick	INVSLU	2.6033	-0.5641	-7.59	4.96	
815	304	Shell-Thick	INVSLU	-0.1982	-1.2558	-19.28	0.46	
815	304	Shell-Thick	INVSLU	-0.3176	-0.8531	-18.03	0.46	
815	304	Shell-Thick	INVSLU	0.5552	-0.5172	-18.03	0.20	
815	304	Shell-Thick	INVSLU	0.6818	-0.7007	-19.28	0.20	
816	305	Shell-Thick	INVSLE	1.1597	-0.4447	-6.31	2.43	
816	305	Shell-Thick	INVSLE	0.9137	-0.2594	-6.12	2.43	
816	305	Shell-Thick	INVSLE	2.4135	0.2219	-6.12	1.82	
816	305	Shell-Thick	INVSLE	2.7190	-0.0833	-6.31	1.82	
816	305	Shell-Thick	INVSLE	0.3255	-0.5250	-13.34	0.16	
816	305	Shell-Thick	INVSLE	0.1861	-0.4372	-12.64	0.16	
816	305	Shell-Thick	INVSLE	0.9139	-0.1624	-12.64	-8.013E-03	
816	305	Shell-Thick	INVSLE	1.0617	-0.1753	-13.34	-8.013E-03	
816	305	Shell-Thick	INVSLU	2.1270	-0.6003	-8.52	5.06	
816	305	Shell-Thick	INVSLU	1.7575	-0.0533	-8.26	5.06	
816	305	Shell-Thick	INVSLU	4.1524	0.6674	-8.26	3.93	
816	305	Shell-Thick	INVSLU	4.6408	0.0233	-8.52	3.93	
816	305	Shell-Thick	INVSLU	0.4395	-0.7209	-21.49	0.22	
816	305	Shell-Thick	INVSLU	0.2512	-0.5902	-20.19	0.22	
816	305	Shell-Thick	INVSLU	1.2338	-0.2192	-20.19	-1.082E-02	
816	305	Shell-Thick	INVSLU	1.4333	-0.2367	-21.49	-1.082E-02	
817	306	Shell-Thick	INVSLE	2.4490	-0.0891	-7.06	1.87	
817	306	Shell-Thick	INVSLE	2.0264	0.0962	-6.91	1.87	
817	306	Shell-Thick	INVSLE	3.6954	0.5968	-6.91	1.27	
817	306	Shell-Thick	INVSLE	4.1948	0.3604	-7.06	1.27	
817	306	Shell-Thick	INVSLE	0.9076	-0.1983	-14.84	6.438E-04	
817	306	Shell-Thick	INVSLE	0.7068	-0.2117	-14.15	6.438E-04	
817	306	Shell-Thick	INVSLE	1.5231	0.0738	-14.15	-0.13	
817	306	Shell-Thick	INVSLE	1.7376	0.0781	-14.84	-0.13	
817	306	Shell-Thick	INVSLU	4.2365	0.0375	-9.54	4.03	
817	306	Shell-Thick	INVSLU	3.5566	0.4532	-9.33	4.03	
817	306	Shell-Thick	INVSLU	6.2144	1.2033	-9.33	2.89	
817	306	Shell-Thick	INVSLU	7.0442	0.6878	-9.54	2.89	
817	306	Shell-Thick	INVSLU	1.2252	-0.2677	-23.86	8.691E-04	
817	306	Shell-Thick	INVSLU	0.9541	-0.2857	-22.55	8.691E-04	
817	306	Shell-Thick	INVSLU	2.0561	0.0996	-22.55	-0.18	
817	306	Shell-Thick	INVSLU	2.3457	0.1054	-23.86	-0.18	
818	307	Shell-Thick	INVSLE	10.0670	1.8601	20.51	-4.871E-02	
818	307	Shell-Thick	INVSLE	8.8525	1.9238	19.85	-4.871E-02	
818	307	Shell-Thick	INVSLE	6.5454	1.3714	19.85	0.42	
818	307	Shell-Thick	INVSLE	7.6203	1.4010	20.51	0.42	
818	307	Shell-Thick	INVSLE	4.8168	0.9172	10.35	-0.16	
818	307	Shell-Thick	INVSLE	4.3802	0.9222	10.35	-0.16	
818	307	Shell-Thick	INVSLE	3.1792	0.6378	10.35	-5.288E-02	
818	307	Shell-Thick	INVSLE	3.5802	0.6566	10.35	-5.288E-02	
818	307	Shell-Thick	INVSLU	16.1551	2.9536	32.30	-6.575E-02	
818	307	Shell-Thick	INVSLU	14.0386	3.0851	30.87	-6.575E-02	
818	307	Shell-Thick	INVSLU	10.4489	2.2220	30.87	0.96	
818	307	Shell-Thick	INVSLU	12.3053	2.2642	32.30	0.96	
818	307	Shell-Thick	INVSLU	6.5027	1.2382	13.97	-0.29	
818	307	Shell-Thick	INVSLU	5.9133	1.2450	13.97	-0.29	
818	307	Shell-Thick	INVSLU	4.2919	0.8611	13.97	-7.138E-02	
818	307	Shell-Thick	INVSLU	4.8333	0.8864	13.97	-7.138E-02	
819	308	Shell-Thick	INVSLE	7.7849	1.3638	18.46	0.34	
819	308	Shell-Thick	INVSLE	6.7987	1.4921	17.69	0.34	
819	308	Shell-Thick	INVSLE	4.7266	0.9273	17.69	1.01	
819	308	Shell-Thick	INVSLE	5.6003	0.8741	18.46	1.01	
819	308	Shell-Thick	INVSLE	3.6028	0.6508	9.22	-6.498E-02	
819	308	Shell-Thick	INVSLE	3.2248	0.6573	9.11	-6.498E-02	
819	308	Shell-Thick	INVSLE	2.1581	0.3497	9.11	3.220E-02	
819	308	Shell-Thick	INVSLE	2.5100	0.3606	9.22	3.220E-02	
819	308	Shell-Thick	INVSLU	12.6346	2.1907	29.17	0.80	
819	308	Shell-Thick	INVSLU	10.9430	2.4602	27.63	0.80	
819	308	Shell-Thick	INVSLU	7.7051	1.5971	27.63	2.15	
819	308	Shell-Thick	INVSLU	9.1839	1.4695	29.17	2.15	
819	308	Shell-Thick	INVSLU	4.8638	0.8785	12.45	-8.773E-02	
819	308	Shell-Thick	INVSLU	4.3535	0.8874	12.30	-8.773E-02	
819	308	Shell-Thick	INVSLU	2.9134	0.4721	12.30	4.348E-02	
819	308	Shell-Thick	INVSLU	3.3884	0.4868	12.45	4.348E-02	
820	309	Shell-Thick	INVSLE	5.8548	0.8583	16.57	0.94	
820	309	Shell-Thick	INVSLE	5.0847	1.0656	15.73	0.94	

820	309 Shell-Thick	INVSLE	3.2298	0.5468	15.73	1.68	
820	309 Shell-Thick	INVSLE	3.9057	0.4023	16.57	1.68	
820	309 Shell-Thick	INVSLE	2.6078	0.3686	8.20	1.915E-02	
820	309 Shell-Thick	INVSLE	2.2978	0.3892	8.01	1.915E-02	
820	309 Shell-Thick	INVSLE	1.3529	0.0897	8.01	0.19	
820	309 Shell-Thick	INVSLE	1.6433	0.0821	8.20	0.19	
820	309 Shell-Thick	INVSLU	9.6200	1.4262	26.27	2.01	
820	309 Shell-Thick	INVSLU	8.3164	1.8499	24.68	2.01	
820	309 Shell-Thick	INVSLU	5.4063	1.0769	24.68	3.40	
820	309 Shell-Thick	INVSLU	6.5293	0.7735	26.27	3.40	
820	309 Shell-Thick	INVSLU	3.5206	0.4976	11.08	2.586E-02	
820	309 Shell-Thick	INVSLU	3.1021	0.5255	10.81	2.586E-02	
820	309 Shell-Thick	INVSLU	1.8264	0.1211	10.81	0.26	
820	309 Shell-Thick	INVSLU	2.2184	0.1108	11.08	0.26	
821	310 Shell-Thick	INVSLE	4.2067	0.4015	14.85	1.61	
821	310 Shell-Thick	INVSLE	3.6606	0.6940	13.97	1.61	
821	310 Shell-Thick	INVSLE	2.0000	0.1974	13.97	2.38	
821	310 Shell-Thick	INVSLE	2.4732	-0.0467	14.85	2.38	
821	310 Shell-Thick	INVSLE	1.7885	0.0994	7.29	0.18	
821	310 Shell-Thick	INVSLE	1.5571	0.1423	7.03	0.18	
821	310 Shell-Thick	INVSLE	0.7201	-0.1504	7.03	0.40	
821	310 Shell-Thick	INVSLE	0.9393	-0.1853	7.29	0.40	
821	310 Shell-Thick	INVSLU	7.0110	0.7518	23.62	3.27	
821	310 Shell-Thick	INVSLU	6.0999	1.3337	22.02	3.27	
821	310 Shell-Thick	INVSLU	3.4841	0.6008	22.02	4.68	
821	310 Shell-Thick	INVSLU	4.2520	0.1140	23.62	4.68	
821	310 Shell-Thick	INVSLU	2.4145	0.1341	9.84	0.24	
821	310 Shell-Thick	INVSLU	2.1020	0.1921	9.49	0.24	
821	310 Shell-Thick	INVSLU	0.9721	-0.2031	9.49	0.54	
821	310 Shell-Thick	INVSLU	1.2681	-0.2502	9.84	0.54	
822	311 Shell-Thick	INVSLE	2.8217	-0.0354	13.27	2.32	
822	311 Shell-Thick	INVSLE	2.4601	0.3479	12.39	2.32	
822	311 Shell-Thick	INVSLE	0.9784	-0.0891	12.39	3.09	
822	311 Shell-Thick	INVSLE	1.2809	-0.4235	13.27	3.09	
822	311 Shell-Thick	INVSLE	1.1214	-0.1615	6.46	0.39	
822	311 Shell-Thick	INVSLE	0.9599	-0.0899	6.17	0.39	
822	311 Shell-Thick	INVSLE	0.2203	-0.3567	6.17	0.64	
822	311 Shell-Thick	INVSLE	0.3742	-0.4332	6.46	0.64	
822	311 Shell-Thick	INVSLU	4.7935	0.1107	21.18	4.56	
822	311 Shell-Thick	INVSLU	4.1997	0.8555	19.60	4.56	
822	311 Shell-Thick	INVSLU	1.8575	0.2212	19.60	5.94	
822	311 Shell-Thick	INVSLU	2.3323	-0.4446	21.18	5.94	
822	311 Shell-Thick	INVSLU	1.5138	-0.2180	8.72	0.52	
822	311 Shell-Thick	INVSLU	1.2958	-0.1213	8.32	0.52	
822	311 Shell-Thick	INVSLU	0.2974	-0.4816	8.32	0.87	
822	311 Shell-Thick	INVSLU	0.5052	-0.5864	8.72	0.87	
823	312 Shell-Thick	INVSLE	1.6366	-0.3957	11.84	3.04	
823	312 Shell-Thick	INVSLE	1.4692	0.0604	10.97	3.04	
823	312 Shell-Thick	INVSLE	0.1475	-0.3403	10.97	3.80	
823	312 Shell-Thick	INVSLE	0.2718	-0.6404	11.84	3.80	
823	312 Shell-Thick	INVSLE	0.5711	-0.4134	5.71	0.63	
823	312 Shell-Thick	INVSLE	0.4847	-0.2922	5.40	0.63	
823	312 Shell-Thick	INVSLE	-0.1687	-0.5383	5.40	0.90	
823	312 Shell-Thick	INVSLE	-0.0845	-0.7857	5.71	0.90	
823	312 Shell-Thick	INVSLU	2.8722	-0.4340	18.95	5.83	
823	312 Shell-Thick	INVSLU	2.6107	0.4693	17.43	5.83	
823	312 Shell-Thick	INVSLU	0.5142	-0.1108	17.43	7.16	
823	312 Shell-Thick	INVSLU	0.6850	-0.8646	18.95	7.16	
823	312 Shell-Thick	INVSLU	0.7710	-0.5608	7.71	0.85	
823	312 Shell-Thick	INVSLU	0.6544	-0.3945	7.29	0.85	
823	312 Shell-Thick	INVSLU	-0.2277	-0.7267	7.29	1.21	
823	312 Shell-Thick	INVSLU	-0.1141	-1.0824	7.71	1.21	
824	313 Shell-Thick	INVSLE	0.6530	-0.6100	10.53	3.75	
824	313 Shell-Thick	INVSLE	0.6322	-0.1945	9.69	3.75	
824	313 Shell-Thick	INVSLE	-0.4753	-0.5409	9.69	4.48	
824	313 Shell-Thick	INVSLE	-0.4480	-0.8273	10.53	4.48	
824	313 Shell-Thick	INVSLE	0.1268	-0.7583	5.04	0.89	
824	313 Shell-Thick	INVSLE	0.1003	-0.4726	4.73	0.89	
824	313 Shell-Thick	INVSLE	-0.5417	-0.6892	4.73	1.16	
824	313 Shell-Thick	INVSLE	-0.5543	-1.0827	5.04	1.16	
824	313 Shell-Thick	INVSLU	1.2632	-0.8235	16.89	7.06	
824	313 Shell-Thick	INVSLU	1.2489	0.1279	15.45	7.06	
824	313 Shell-Thick	INVSLU	-0.6187	-0.3689	15.45	8.32	
824	313 Shell-Thick	INVSLU	-0.6048	-1.1169	16.89	8.32	
824	313 Shell-Thick	INVSLU	0.1712	-1.0460	6.80	1.20	
824	313 Shell-Thick	INVSLU	0.1354	-0.6380	6.38	1.20	
824	313 Shell-Thick	INVSLU	-0.7413	-0.9305	6.38	1.57	
824	313 Shell-Thick	INVSLU	-0.7642	-1.5000	6.80	1.57	

825	314 Shell-Thick	INVSLE	-0.1856	-0.7959	9.32	4.43
825	314 Shell-Thick	INVSLE	-0.0505	-0.4011	8.54	4.43
825	314 Shell-Thick	INVSLE	-0.7099	-0.7081	8.54	5.12
825	314 Shell-Thick	INVSLE	-0.7417	-0.9907	9.32	5.12
825	314 Shell-Thick	INVSLE	-0.2397	-1.0505	4.43	1.15
825	314 Shell-Thick	INVSLE	-0.2037	-0.6247	4.13	1.15
825	314 Shell-Thick	INVSLE	-1.0911	-0.8165	4.13	1.42
825	314 Shell-Thick	INVSLE	-1.2484	-1.3430	4.43	1.42
825	314 Shell-Thick	INVSLU	-0.1229	-1.0745	14.99	8.24
825	314 Shell-Thick	INVSLU	0.1272	-0.1419	13.65	8.24
825	314 Shell-Thick	INVSLU	-0.9584	-0.5823	13.65	9.41
825	314 Shell-Thick	INVSLU	-1.0013	-1.3374	14.99	9.41
825	314 Shell-Thick	INVSLU	-0.3235	-1.4564	5.99	1.55
825	314 Shell-Thick	INVSLU	-0.2750	-0.8433	5.57	1.55
825	314 Shell-Thick	INVSLU	-1.5332	-1.1022	5.57	1.92
825	314 Shell-Thick	INVSLU	-1.8360	-1.8659	5.99	1.92
826	315 Shell-Thick	INVSLE	-0.5334	-0.9591	8.22	5.08
826	315 Shell-Thick	INVSLE	-0.4504	-0.5760	7.49	5.08
826	315 Shell-Thick	INVSLE	-0.8934	-0.8375	7.49	5.72
826	315 Shell-Thick	INVSLE	-0.9705	-1.1278	8.22	5.72
826	315 Shell-Thick	INVSLE	-0.8728	-1.3069	3.88	1.41
826	315 Shell-Thick	INVSLE	-0.6255	-0.7545	3.59	1.41
826	315 Shell-Thick	INVSLE	-1.5424	-0.9192	3.59	1.66
826	315 Shell-Thick	INVSLE	-1.8053	-1.5582	3.88	1.66
826	315 Shell-Thick	INVSLU	-0.7200	-1.2948	13.24	9.33
826	315 Shell-Thick	INVSLU	-0.6080	-0.3689	12.00	9.33
826	315 Shell-Thick	INVSLU	-1.2060	-0.7428	12.00	10.42
826	315 Shell-Thick	INVSLU	-1.3102	-1.5225	13.24	10.42
826	315 Shell-Thick	INVSLU	-1.2664	-1.8164	5.24	1.90
826	315 Shell-Thick	INVSLU	-0.8707	-1.0186	4.85	1.90
826	315 Shell-Thick	INVSLU	-2.2950	-1.2409	4.85	2.25
826	315 Shell-Thick	INVSLU	-2.7733	-2.1682	5.24	2.25
827	316 Shell-Thick	INVSLE	-0.7753	-1.0971	7.19	5.68
827	316 Shell-Thick	INVSLE	-0.6443	-0.7145	6.53	5.68
827	316 Shell-Thick	INVSLE	-1.0303	-0.9387	6.53	6.27
827	316 Shell-Thick	INVSLE	-1.1536	-1.2433	7.19	6.27
827	316 Shell-Thick	INVSLE	-1.4547	-1.5204	3.38	1.66
827	316 Shell-Thick	INVSLE	-1.0890	-0.8611	3.11	1.66
827	316 Shell-Thick	INVSLE	-1.8928	-1.0020	3.11	1.89
827	316 Shell-Thick	INVSLE	-2.2668	-1.7394	3.38	1.89
827	316 Shell-Thick	INVSLU	-1.0466	-1.4810	11.61	10.35
827	316 Shell-Thick	INVSLU	-0.8699	-0.5446	10.49	10.35
827	316 Shell-Thick	INVSLU	-1.3909	-0.8653	10.49	11.33
827	316 Shell-Thick	INVSLU	-1.5574	-1.6784	11.61	11.33
827	316 Shell-Thick	INVSLU	-2.2426	-2.1161	4.56	2.24
827	316 Shell-Thick	INVSLU	-1.6047	-1.1624	4.20	2.24
827	316 Shell-Thick	INVSLU	-2.8931	-1.3528	4.20	2.56
827	316 Shell-Thick	INVSLU	-3.5577	-2.4226	4.56	2.56
828	317 Shell-Thick	INVSLE	-0.9680	-1.2140	6.24	6.23
828	317 Shell-Thick	INVSLE	-0.8023	-0.8261	5.64	6.23
828	317 Shell-Thick	INVSLE	-1.1355	-1.0136	5.64	6.76
828	317 Shell-Thick	INVSLE	-1.2932	-1.3376	6.24	6.76
828	317 Shell-Thick	INVSLE	-1.9262	-1.7009	2.92	1.89
828	317 Shell-Thick	INVSLE	-1.4779	-0.9486	2.67	1.89
828	317 Shell-Thick	INVSLE	-2.1756	-1.0667	2.67	2.10
828	317 Shell-Thick	INVSLE	-2.6283	-1.8856	2.92	2.10
828	317 Shell-Thick	INVSLU	-1.3068	-1.6389	10.09	11.28
828	317 Shell-Thick	INVSLU	-1.0831	-0.6841	9.09	11.28
828	317 Shell-Thick	INVSLU	-1.5330	-0.9519	9.09	12.15
828	317 Shell-Thick	INVSLU	-1.7458	-1.8058	10.09	12.15
828	317 Shell-Thick	INVSLU	-3.0373	-2.3692	3.94	2.55
828	317 Shell-Thick	INVSLU	-2.2614	-1.2806	3.61	2.55
828	317 Shell-Thick	INVSLU	-3.3817	-1.4401	3.61	2.84
828	317 Shell-Thick	INVSLU	-4.1766	-2.6278	3.94	2.84
829	318 Shell-Thick	INVSLE	-1.1263	-1.3106	5.35	6.73
829	318 Shell-Thick	INVSLE	-0.9261	-0.9121	4.83	6.73
829	318 Shell-Thick	INVSLE	-1.2110	-1.0674	4.83	7.19
829	318 Shell-Thick	INVSLE	-1.4026	-1.4143	5.35	7.19
829	318 Shell-Thick	INVSLE	-2.3220	-1.8483	2.49	2.10
829	318 Shell-Thick	INVSLE	-1.7881	-1.0185	2.27	2.10
829	318 Shell-Thick	INVSLE	-2.3873	-1.1164	2.27	2.29
829	318 Shell-Thick	INVSLE	-2.9216	-2.0036	2.49	2.29
829	318 Shell-Thick	INVSLU	-1.5205	-1.7693	8.67	12.11
829	318 Shell-Thick	INVSLU	-1.2502	-0.7887	7.79	12.11
829	318 Shell-Thick	INVSLU	-1.6348	-1.0105	7.79	12.88
829	318 Shell-Thick	INVSLU	-1.8936	-1.9093	8.67	12.88
829	318 Shell-Thick	INVSLU	-3.7086	-2.5759	3.37	2.83
829	318 Shell-Thick	INVSLU	-2.7877	-1.3750	3.07	2.83

829	318	Shell-Thick	INVSLU	-3.7515	-1.5072	3.07	3.09
829	318	Shell-Thick	INVSLU	-4.6829	-2.7933	3.37	3.09
830	319	Shell-Thick	INVSLE	-1.2516	-1.3898	4.52	7.17
830	319	Shell-Thick	INVSLE	-1.0273	-0.9780	4.06	7.17
830	319	Shell-Thick	INVSLE	-1.2669	-1.1042	4.06	7.57
830	319	Shell-Thick	INVSLE	-1.4830	-1.4749	4.52	7.57
830	319	Shell-Thick	INVSLE	-2.6386	-1.9684	2.10	2.28
830	319	Shell-Thick	INVSLE	-2.0471	-1.0740	1.90	2.28
830	319	Shell-Thick	INVSLE	-2.5529	-1.1535	1.90	2.45
830	319	Shell-Thick	INVSLE	-3.1430	-2.0958	2.10	2.45
830	319	Shell-Thick	INVSLU	-1.6896	-1.8762	7.32	12.84
830	319	Shell-Thick	INVSLU	-1.3869	-0.8666	6.56	12.84
830	319	Shell-Thick	INVSLU	-1.7103	-1.0469	6.56	13.50
830	319	Shell-Thick	INVSLU	-2.0021	-1.9910	7.32	13.50
830	319	Shell-Thick	INVSLU	-4.2470	-2.7442	2.83	3.08
830	319	Shell-Thick	INVSLU	-3.2297	-1.4499	2.57	3.08
830	319	Shell-Thick	INVSLU	-4.0442	-1.5573	2.57	3.31
830	319	Shell-Thick	INVSLU	-5.0679	-2.9225	2.83	3.31
831	320	Shell-Thick	INVSLE	-1.3540	-1.4534	3.72	7.55
831	320	Shell-Thick	INVSLE	-1.1064	-1.0272	3.34	7.55
831	320	Shell-Thick	INVSLE	-1.3035	-1.1272	3.34	7.89
831	320	Shell-Thick	INVSLE	-1.5435	-1.5218	3.72	7.89
831	320	Shell-Thick	INVSLE	-2.9011	-2.0640	1.72	2.45
831	320	Shell-Thick	INVSLE	-2.2510	-1.1171	1.56	2.45
831	320	Shell-Thick	INVSLE	-2.6686	-1.1803	1.56	2.59
831	320	Shell-Thick	INVSLE	-3.3155	-2.1664	1.72	2.59
831	320	Shell-Thick	INVSLU	-1.8279	-1.9621	6.04	13.47
831	320	Shell-Thick	INVSLU	-1.4937	-0.9230	5.41	13.47
831	320	Shell-Thick	INVSLU	-1.7597	-1.0657	5.41	14.03
831	320	Shell-Thick	INVSLU	-2.0837	-2.0544	6.04	14.03
831	320	Shell-Thick	INVSLU	-4.6952	-2.8780	2.33	3.31
831	320	Shell-Thick	INVSLU	-3.5784	-1.5081	2.11	3.31
831	320	Shell-Thick	INVSLU	-4.2516	-1.5934	2.11	3.50
831	320	Shell-Thick	INVSLU	-5.3703	-3.0213	2.33	3.50
832	321	Shell-Thick	INVSLE	-1.4338	-1.5037	2.97	7.87
832	321	Shell-Thick	INVSLE	-1.1713	-1.0633	2.66	7.87
832	321	Shell-Thick	INVSLE	-1.3280	-1.1405	2.66	8.14
832	321	Shell-Thick	INVSLE	-1.5840	-1.5568	2.97	8.14
832	321	Shell-Thick	INVSLE	-3.1064	-2.1388	1.37	2.59
832	321	Shell-Thick	INVSLE	-2.4200	-1.1500	1.24	2.59
832	321	Shell-Thick	INVSLE	-2.7527	-1.1988	1.24	2.70
832	321	Shell-Thick	INVSLE	-3.4358	-2.2184	1.37	2.70
832	321	Shell-Thick	INVSLU	-1.9357	-2.0299	4.82	14.00
832	321	Shell-Thick	INVSLU	-1.5813	-0.9626	4.30	14.00
832	321	Shell-Thick	INVSLU	-1.7927	-1.0729	4.30	14.45
832	321	Shell-Thick	INVSLU	-2.1384	-2.1017	4.82	14.45
832	321	Shell-Thick	INVSLU	-5.0460	-2.9826	1.85	3.49
832	321	Shell-Thick	INVSLU	-3.8679	-1.5526	1.67	3.49
832	321	Shell-Thick	INVSLU	-4.4048	-1.6184	1.67	3.65
832	321	Shell-Thick	INVSLU	-5.5832	-3.0940	1.85	3.65
833	322	Shell-Thick	INVSLE	-1.4981	-1.5423	2.24	8.13
833	322	Shell-Thick	INVSLE	-1.2216	-1.0898	2.00	8.13
833	322	Shell-Thick	INVSLE	-1.3396	-1.1460	2.00	8.34
833	322	Shell-Thick	INVSLE	-1.6108	-1.5815	2.24	8.34
833	322	Shell-Thick	INVSLE	-3.2725	-2.1959	1.03	2.70
833	322	Shell-Thick	INVSLE	-2.5497	-1.1749	0.93	2.70
833	322	Shell-Thick	INVSLE	-2.8009	-1.2105	0.93	2.79
833	322	Shell-Thick	INVSLE	-3.5202	-2.2545	1.03	2.79
833	322	Shell-Thick	INVSLU	-2.0225	-2.0821	3.63	14.43
833	322	Shell-Thick	INVSLU	-1.6491	-0.9910	3.24	14.43
833	322	Shell-Thick	INVSLU	-1.8084	-1.0711	3.24	14.77
833	322	Shell-Thick	INVSLU	-2.1746	-2.1351	3.63	14.77
833	322	Shell-Thick	INVSLU	-5.3301	-3.0624	1.39	3.65
833	322	Shell-Thick	INVSLU	-4.0898	-1.5861	1.25	3.65
833	322	Shell-Thick	INVSLU	-4.4954	-1.6342	1.25	3.77
833	322	Shell-Thick	INVSLU	-5.7343	-3.1445	1.39	3.77
834	323	Shell-Thick	INVSLE	-1.5464	-1.5708	1.53	8.33
834	323	Shell-Thick	INVSLE	-1.2626	-1.1088	1.36	8.33
834	323	Shell-Thick	INVSLE	-1.3431	-1.1465	1.36	8.47
834	323	Shell-Thick	INVSLE	-1.6231	-1.5971	1.53	8.47
834	323	Shell-Thick	INVSLE	-3.3956	-2.2375	0.70	2.79
834	323	Shell-Thick	INVSLE	-2.6547	-1.1930	0.63	2.79
834	323	Shell-Thick	INVSLE	-2.8263	-1.2168	0.63	2.85
834	323	Shell-Thick	INVSLE	-3.5646	-2.2770	0.70	2.85
834	323	Shell-Thick	INVSLU	-2.0876	-2.1205	2.48	14.76
834	323	Shell-Thick	INVSLU	-1.7045	-1.0112	2.21	14.76
834	323	Shell-Thick	INVSLU	-1.8132	-1.0649	2.21	14.99
834	323	Shell-Thick	INVSLU	-2.1912	-2.1561	2.48	14.99

834	323	Shell-Thick	INVSLU	-5.5399	-3.1206	0.95	3.76
834	323	Shell-Thick	INVSLU	-4.2690	-1.6105	0.85	3.76
834	323	Shell-Thick	INVSLU	-4.5463	-1.6427	0.85	3.85
834	323	Shell-Thick	INVSLU	-5.8159	-3.1760	0.95	3.85
835	324	Shell-Thick	INVSLE	-1.5833	-1.5903	0.83	8.47
835	324	Shell-Thick	INVSLE	-1.2932	-1.1229	0.74	8.47
835	324	Shell-Thick	INVSLE	-1.3371	-1.1430	0.74	8.55
835	324	Shell-Thick	INVSLE	-1.6250	-1.6045	0.83	8.55
835	324	Shell-Thick	INVSLE	-3.4883	-2.2661	0.38	2.85
835	324	Shell-Thick	INVSLE	-2.7299	-1.2057	0.34	2.85
835	324	Shell-Thick	INVSLE	-2.8237	-1.2185	0.34	2.88
835	324	Shell-Thick	INVSLE	-3.5803	-2.2874	0.38	2.88
835	324	Shell-Thick	INVSLU	-2.1374	-2.1469	1.35	14.98
835	324	Shell-Thick	INVSLU	-1.7458	-1.0268	1.21	14.98
835	324	Shell-Thick	INVSLU	-1.8051	-1.0554	1.21	15.11
835	324	Shell-Thick	INVSLU	-2.1937	-2.1661	1.35	15.11
835	324	Shell-Thick	INVSLU	-5.6975	-3.1606	0.52	3.85
835	324	Shell-Thick	INVSLU	-4.3961	-1.6277	0.47	3.85
835	324	Shell-Thick	INVSLU	-4.5475	-1.6449	0.47	3.89
835	324	Shell-Thick	INVSLU	-5.8477	-3.1904	0.52	3.89
836	325	Shell-Thick	INVSLE	-1.6074	-1.6016	0.15	8.54
836	325	Shell-Thick	INVSLE	-1.3171	-1.1332	0.13	8.54
836	325	Shell-Thick	INVSLE	-1.3248	-1.1366	0.13	8.56
836	325	Shell-Thick	INVSLE	-1.6147	-1.6041	0.15	8.56
836	325	Shell-Thick	INVSLE	-3.5456	-2.2827	6.720E-02	2.88
836	325	Shell-Thick	INVSLE	-2.7859	-1.2139	6.042E-02	2.88
836	325	Shell-Thick	INVSLE	-2.8024	-1.2160	6.042E-02	2.89
836	325	Shell-Thick	INVSLE	-3.5616	-2.2865	6.720E-02	2.89
836	325	Shell-Thick	INVSLU	-2.1701	-2.1621	0.24	15.11
836	325	Shell-Thick	INVSLU	-1.7780	-1.0396	0.21	15.11
836	325	Shell-Thick	INVSLU	-1.7885	-1.0445	0.21	15.13
836	325	Shell-Thick	INVSLU	-2.1799	-2.1655	0.24	15.13
836	325	Shell-Thick	INVSLU	-5.7932	-3.1837	9.072E-02	3.89
836	325	Shell-Thick	INVSLU	-4.4891	-1.6387	8.156E-02	3.89
836	325	Shell-Thick	INVSLU	-4.5159	-1.6416	8.156E-02	3.90
836	325	Shell-Thick	INVSLU	-5.8194	-3.1891	9.072E-02	3.90
837	326	Shell-Thick	INVSLE	-1.6221	-1.6052	-0.25	8.56
837	326	Shell-Thick	INVSLE	-1.3323	-1.1406	-0.22	8.56
837	326	Shell-Thick	INVSLE	-1.3040	-1.1275	-0.22	8.51
837	326	Shell-Thick	INVSLE	-1.5949	-1.5960	-0.25	8.51
837	326	Shell-Thick	INVSLE	-3.5764	-2.2882	-0.54	2.89
837	326	Shell-Thick	INVSLE	-2.8159	-1.2179	-0.48	2.89
837	326	Shell-Thick	INVSLE	-2.7555	-1.2095	-0.48	2.87
837	326	Shell-Thick	INVSLE	-3.5166	-2.2746	-0.54	2.87
837	326	Shell-Thick	INVSLU	-2.1898	-2.1670	-0.33	15.13
837	326	Shell-Thick	INVSLU	-1.7986	-1.0509	-0.30	15.13
837	326	Shell-Thick	INVSLU	-1.7603	-1.0323	-0.30	15.05
837	326	Shell-Thick	INVSLU	-2.1532	-2.1546	-0.33	15.05
837	326	Shell-Thick	INVSLU	-5.8428	-3.1915	-0.88	3.90
837	326	Shell-Thick	INVSLU	-4.5363	-1.6441	-0.78	3.90
837	326	Shell-Thick	INVSLU	-4.4387	-1.6329	-0.78	3.87
837	326	Shell-Thick	INVSLU	-5.7451	-3.1725	-0.88	3.87
838	327	Shell-Thick	INVSLE	-1.6246	-1.6010	-0.57	8.51
838	327	Shell-Thick	INVSLE	-1.3414	-1.1452	-0.51	8.51
838	327	Shell-Thick	INVSLE	-1.2767	-1.1149	-0.51	8.40
838	327	Shell-Thick	INVSLE	-1.5628	-1.5799	-0.57	8.40
838	327	Shell-Thick	INVSLE	-3.5732	-2.2826	-1.23	2.87
838	327	Shell-Thick	INVSLE	-2.8276	-1.2179	-1.10	2.87
838	327	Shell-Thick	INVSLE	-2.6898	-1.1987	-1.10	2.82
838	327	Shell-Thick	INVSLE	-3.4369	-2.2511	-1.23	2.82
838	327	Shell-Thick	INVSLU	-2.1933	-2.1614	-0.76	15.06
838	327	Shell-Thick	INVSLU	-1.8108	-1.0610	-0.69	15.06
838	327	Shell-Thick	INVSLU	-1.7235	-1.0178	-0.69	14.87
838	327	Shell-Thick	INVSLU	-2.1098	-2.1328	-0.76	14.87
838	327	Shell-Thick	INVSLU	-5.8327	-3.1837	-2.00	3.87
838	327	Shell-Thick	INVSLU	-4.5512	-1.6441	-1.78	3.87
838	327	Shell-Thick	INVSLU	-4.3284	-1.6182	-1.78	3.80
838	327	Shell-Thick	INVSLU	-5.6101	-3.1397	-2.00	3.80
839	328	Shell-Thick	INVSLE	-1.6172	-1.5889	-0.89	8.40
839	328	Shell-Thick	INVSLE	-1.3412	-1.1463	-0.80	8.40
839	328	Shell-Thick	INVSLE	-1.2395	-1.0980	-0.80	8.23
839	328	Shell-Thick	INVSLE	-1.5199	-1.5552	-0.89	8.23
839	328	Shell-Thick	INVSLE	-3.5422	-2.2653	-1.93	2.82
839	328	Shell-Thick	INVSLE	-2.8121	-1.2135	-1.73	2.82
839	328	Shell-Thick	INVSLE	-2.5955	-1.1828	-1.73	2.74
839	328	Shell-Thick	INVSLE	-3.3281	-2.2152	-1.93	2.74
839	328	Shell-Thick	INVSLU	-2.1832	-2.1450	-1.20	14.88
839	328	Shell-Thick	INVSLU	-1.8107	-1.0685	-1.08	14.88

839	328	Shell-Thick	INVSLU	-1.6733	-0.9998	-1.08	14.58
839	328	Shell-Thick	INVSLU	-2.0519	-2.0996	-1.20	14.58
839	328	Shell-Thick	INVSLU	-5.7745	-3.1595	-3.14	3.81
839	328	Shell-Thick	INVSLU	-4.5178	-1.6382	-2.80	3.81
839	328	Shell-Thick	INVSLU	-4.1679	-1.5968	-2.80	3.70
839	328	Shell-Thick	INVSLU	-5.4250	-3.0895	-3.14	3.70
840	329	Shell-Thick	INVSLE	-1.5959	-1.5680	-1.22	8.23
840	329	Shell-Thick	INVSLE	-1.3336	-1.1431	-1.10	8.23
840	329	Shell-Thick	INVSLE	-1.1938	-1.0747	-1.10	7.99
840	329	Shell-Thick	INVSLE	-1.4618	-1.5209	-1.22	7.99
840	329	Shell-Thick	INVSLE	-3.4727	-2.2350	-2.65	2.74
840	329	Shell-Thick	INVSLE	-2.7752	-1.2040	-2.37	2.74
840	329	Shell-Thick	INVSLE	-2.4780	-1.1608	-2.37	2.64
840	329	Shell-Thick	INVSLE	-3.1782	-2.1647	-2.65	2.64
840	329	Shell-Thick	INVSLU	-2.1545	-2.1168	-1.65	14.60
840	329	Shell-Thick	INVSLU	-1.8004	-1.0724	-1.49	14.60
840	329	Shell-Thick	INVSLU	-1.6117	-0.9748	-1.49	14.20
840	329	Shell-Thick	INVSLU	-1.9734	-2.0532	-1.65	14.20
840	329	Shell-Thick	INVSLU	-5.6491	-3.1173	-4.31	3.71
840	329	Shell-Thick	INVSLU	-4.4468	-1.6255	-3.85	3.71
840	329	Shell-Thick	INVSLU	-3.9672	-1.5670	-3.85	3.56
840	329	Shell-Thick	INVSLU	-5.1686	-3.0189	-4.31	3.56
841	330	Shell-Thick	INVSLE	-1.5618	-1.5374	-1.57	8.01
841	330	Shell-Thick	INVSLE	-1.3140	-1.1330	-1.42	8.01
841	330	Shell-Thick	INVSLE	-1.1345	-1.0428	-1.42	7.70
841	330	Shell-Thick	INVSLE	-1.3893	-1.4756	-1.57	7.70
841	330	Shell-Thick	INVSLE	-3.3694	-2.1898	-3.39	2.64
841	330	Shell-Thick	INVSLE	-2.7042	-1.1883	-3.04	2.64
841	330	Shell-Thick	INVSLE	-2.3236	-1.1312	-3.04	2.51
841	330	Shell-Thick	INVSLE	-2.9916	-2.0976	-3.39	2.51
841	330	Shell-Thick	INVSLU	-2.1084	-2.0754	-2.12	14.22
841	330	Shell-Thick	INVSLU	-1.7738	-1.0688	-1.92	14.22
841	330	Shell-Thick	INVSLU	-1.5316	-0.9402	-1.92	13.71
841	330	Shell-Thick	INVSLU	-1.8755	-1.9920	-2.12	13.71
841	330	Shell-Thick	INVSLU	-5.4655	-3.0541	-5.51	3.57
841	330	Shell-Thick	INVSLU	-4.3163	-1.6043	-4.93	3.57
841	330	Shell-Thick	INVSLU	-3.7025	-1.5272	-4.93	3.39
841	330	Shell-Thick	INVSLU	-4.8496	-2.9250	-5.51	3.39
842	331	Shell-Thick	INVSLE	-1.5091	-1.4954	-1.93	7.71
842	331	Shell-Thick	INVSLE	-1.2832	-1.1143	-1.75	7.71
842	331	Shell-Thick	INVSLE	-1.0624	-0.9991	-1.75	7.34
842	331	Shell-Thick	INVSLE	-1.2957	-1.4176	-1.93	7.34
842	331	Shell-Thick	INVSLE	-3.2166	-2.1272	-4.17	2.52
842	331	Shell-Thick	INVSLE	-2.6040	-1.1651	-3.75	2.52
842	331	Shell-Thick	INVSLE	-2.1370	-1.0924	-3.75	2.36
842	331	Shell-Thick	INVSLE	-2.7508	-2.0110	-4.17	2.36
842	331	Shell-Thick	INVSLU	-2.0372	-2.0188	-2.61	13.74
842	331	Shell-Thick	INVSLU	-1.7324	-1.0553	-2.37	13.74
842	331	Shell-Thick	INVSLU	-1.4342	-0.8909	-2.37	13.12
842	331	Shell-Thick	INVSLU	-1.7492	-1.9138	-2.61	13.12
842	331	Shell-Thick	INVSLU	-5.1966	-2.9664	-6.77	3.40
842	331	Shell-Thick	INVSLU	-4.1355	-1.5729	-6.06	3.40
842	331	Shell-Thick	INVSLU	-3.3831	-1.4747	-6.06	3.18
842	331	Shell-Thick	INVSLU	-4.4381	-2.8038	-6.77	3.18
843	332	Shell-Thick	INVSLE	-1.4380	-1.4407	-2.32	7.36
843	332	Shell-Thick	INVSLE	-1.2347	-1.0832	-2.11	7.36
843	332	Shell-Thick	INVSLE	-0.9698	-0.9401	-2.11	6.93
843	332	Shell-Thick	INVSLE	-1.1812	-1.3449	-2.32	6.93
843	332	Shell-Thick	INVSLE	-3.0183	-2.0444	-4.99	2.36
843	332	Shell-Thick	INVSLE	-2.4569	-1.1323	-4.49	2.36
843	332	Shell-Thick	INVSLE	-1.8986	-1.0421	-4.49	2.18
843	332	Shell-Thick	INVSLE	-2.4600	-1.9011	-4.99	2.18
843	332	Shell-Thick	INVSLU	-1.9413	-1.9449	-3.13	13.16
843	332	Shell-Thick	INVSLU	-1.6669	-1.0262	-2.85	13.16
843	332	Shell-Thick	INVSLU	-1.3092	-0.8219	-2.85	12.44
843	332	Shell-Thick	INVSLU	-1.5946	-1.8156	-3.13	12.44
843	332	Shell-Thick	INVSLU	-4.8509	-2.8505	-8.08	3.19
843	332	Shell-Thick	INVSLU	-3.8742	-1.5286	-7.26	3.19
843	332	Shell-Thick	INVSLU	-2.9758	-1.4068	-7.26	2.94
843	332	Shell-Thick	INVSLU	-3.9429	-2.6500	-8.08	2.94
844	333	Shell-Thick	INVSLE	-1.3399	-1.3707	-2.73	6.95
844	333	Shell-Thick	INVSLE	-1.1686	-1.0365	-2.50	6.95
844	333	Shell-Thick	INVSLE	-0.8568	-0.8628	-2.50	6.46
844	333	Shell-Thick	INVSLE	-1.0359	-1.2558	-2.73	6.46
844	333	Shell-Thick	INVSLE	-2.7523	-1.9370	-5.85	2.19
844	333	Shell-Thick	INVSLE	-2.2676	-1.0878	-5.29	2.19
844	333	Shell-Thick	INVSLE	-1.6135	-0.9783	-5.29	1.98
844	333	Shell-Thick	INVSLE	-2.0944	-1.7657	-5.85	1.98

844	333 Shell-Thick	INVSLU	-1.8089	-1.8504	-3.69	12.48
844	333 Shell-Thick	INVSLU	-1.5777	-0.9770	-3.37	12.48
844	333 Shell-Thick	INVSLU	-1.1567	-0.7289	-3.37	11.65
844	333 Shell-Thick	INVSLU	-1.3985	-1.6953	-3.69	11.65
844	333 Shell-Thick	INVSLU	-4.3902	-2.7000	-9.47	2.95
844	333 Shell-Thick	INVSLU	-3.5419	-1.4686	-8.52	2.95
844	333 Shell-Thick	INVSLU	-2.4909	-1.3207	-8.52	2.67
844	333 Shell-Thick	INVSLU	-3.3218	-2.4601	-9.47	2.67
845	334 Shell-Thick	INVSLE	-1.2144	-1.2839	-3.18	6.49
845	334 Shell-Thick	INVSLE	-1.0751	-0.9706	-2.92	6.49
845	334 Shell-Thick	INVSLE	-0.7124	-0.7613	-2.92	5.93
845	334 Shell-Thick	INVSLE	-0.8593	-1.1470	-3.18	5.93
845	334 Shell-Thick	INVSLE	-2.4231	-1.8032	-6.78	1.99
845	334 Shell-Thick	INVSLE	-2.0115	-1.0295	-6.14	1.99
845	334 Shell-Thick	INVSLE	-1.2544	-0.8978	-6.14	1.76
845	334 Shell-Thick	INVSLE	-1.6589	-1.5983	-6.78	1.76
845	334 Shell-Thick	INVSLU	-1.6394	-1.7333	-4.29	11.70
845	334 Shell-Thick	INVSLU	-1.4513	-0.9024	-3.94	11.70
845	334 Shell-Thick	INVSLU	-0.9618	-0.6030	-3.94	10.77
845	334 Shell-Thick	INVSLU	-1.1601	-1.5485	-4.29	10.77
845	334 Shell-Thick	INVSLU	-3.8248	-2.5123	-10.95	2.68
845	334 Shell-Thick	INVSLU	-3.0975	-1.3898	-9.88	2.68
845	334 Shell-Thick	INVSLU	-1.8830	-1.2121	-9.88	2.37
845	334 Shell-Thick	INVSLU	-2.5861	-2.2255	-10.95	2.37
846	335 Shell-Thick	INVSLE	-1.0485	-1.1768	-3.66	5.96
846	335 Shell-Thick	INVSLE	-0.9529	-0.8798	-3.38	5.96
846	335 Shell-Thick	INVSLE	-0.5354	-0.6349	-3.38	5.35
846	335 Shell-Thick	INVSLE	-0.6370	-1.0182	-3.66	5.35
846	335 Shell-Thick	INVSLE	-1.9996	-1.6357	-7.77	1.77
846	335 Shell-Thick	INVSLE	-1.6933	-0.9540	-7.07	1.77
846	335 Shell-Thick	INVSLE	-0.8268	-0.7995	-7.07	1.52
846	335 Shell-Thick	INVSLE	-1.1192	-1.3998	-7.77	1.52
846	335 Shell-Thick	INVSLU	-1.4154	-1.5887	-4.94	10.83
846	335 Shell-Thick	INVSLU	-1.2865	-0.7938	-4.56	10.83
846	335 Shell-Thick	INVSLU	-0.7228	-0.4440	-4.56	9.79
846	335 Shell-Thick	INVSLU	-0.8599	-1.3745	-4.94	9.79
846	335 Shell-Thick	INVSLU	-3.1025	-2.2771	-12.53	2.38
846	335 Shell-Thick	INVSLU	-2.5517	-1.2878	-11.34	2.38
846	335 Shell-Thick	INVSLU	-1.1647	-1.0793	-11.34	2.05
846	335 Shell-Thick	INVSLU	-1.6784	-1.9470	-12.53	2.05
847	336 Shell-Thick	INVSLE	-0.8407	-1.0491	-4.19	5.39
847	336 Shell-Thick	INVSLE	-0.7881	-0.7630	-3.89	5.39
847	336 Shell-Thick	INVSLE	-0.2945	-0.4732	-3.89	4.72
847	336 Shell-Thick	INVSLE	-0.3672	-0.8646	-4.19	4.72
847	336 Shell-Thick	INVSLE	-1.4874	-1.4361	-8.84	1.53
847	336 Shell-Thick	INVSLE	-1.2805	-0.8598	-8.07	1.53
847	336 Shell-Thick	INVSLE	-0.3100	-0.6785	-8.07	1.26
847	336 Shell-Thick	INVSLE	-0.4816	-1.1592	-8.84	1.26
847	336 Shell-Thick	INVSLU	-1.1349	-1.4163	-5.66	9.86
847	336 Shell-Thick	INVSLU	-1.0639	-0.6507	-5.25	9.86
847	336 Shell-Thick	INVSLU	-0.2766	-0.2352	-5.25	8.73
847	336 Shell-Thick	INVSLU	-0.4957	-1.1672	-5.66	8.73
847	336 Shell-Thick	INVSLU	-2.2373	-1.9967	-14.22	2.06
847	336 Shell-Thick	INVSLU	-1.8514	-1.1607	-12.93	2.06
847	336 Shell-Thick	INVSLU	-0.4184	-0.9160	-12.93	1.71
847	336 Shell-Thick	INVSLU	-0.6674	-1.6092	-14.22	1.71
848	337 Shell-Thick	INVSLE	-0.5728	-0.8956	-4.77	4.76
848	337 Shell-Thick	INVSLE	-0.5768	-0.6096	-4.46	4.76
848	337 Shell-Thick	INVSLE	0.3375	-0.2820	-4.46	4.05
848	337 Shell-Thick	INVSLE	0.2988	-0.6888	-4.77	4.05
848	337 Shell-Thick	INVSLE	-0.8457	-1.1921	-10.00	1.27
848	337 Shell-Thick	INVSLE	-0.7766	-0.7420	-9.18	1.27
848	337 Shell-Thick	INVSLE	-0.0324	-0.5364	-9.18	1.00
848	337 Shell-Thick	INVSLE	-0.0299	-0.8845	-10.00	1.00
848	337 Shell-Thick	INVSLU	-0.7733	-1.2091	-6.44	8.81
848	337 Shell-Thick	INVSLU	-0.7787	-0.4561	-6.02	8.81
848	337 Shell-Thick	INVSLU	0.7663	0.0129	-6.02	7.58
848	337 Shell-Thick	INVSLU	0.6801	-0.9299	-6.44	7.58
848	337 Shell-Thick	INVSLU	-1.1826	-1.6538	-16.05	1.72
848	337 Shell-Thick	INVSLU	-1.0784	-1.0016	-14.66	1.72
848	337 Shell-Thick	INVSLU	-0.0437	-0.7241	-14.66	1.35
848	337 Shell-Thick	INVSLU	-0.0404	-1.2235	-16.05	1.35
849	338 Shell-Thick	INVSLE	-0.0802	-0.7193	-5.41	4.10
849	338 Shell-Thick	INVSLE	-0.1418	-0.4251	-5.10	4.10
849	338 Shell-Thick	INVSLE	1.1142	-0.0431	-5.10	3.35
849	338 Shell-Thick	INVSLE	1.2153	-0.4844	-5.41	3.35
849	338 Shell-Thick	INVSLE	-0.2408	-0.9131	-11.26	1.01
849	338 Shell-Thick	INVSLE	-0.2996	-0.6015	-10.40	1.01

849	338	Shell-Thick	INVSLE	0.3191	-0.3660	-10.40	0.74	
849	338	Shell-Thick	INVSLE	0.3791	-0.5571	-11.26	0.74	
849	338	Shell-Thick	INVSLU	0.1060	-0.9710	-7.31	7.68	
849	338	Shell-Thick	INVSLU	0.0412	-0.2206	-6.89	7.68	
849	338	Shell-Thick	INVSLU	2.0363	0.3313	-6.89	6.38	
849	338	Shell-Thick	INVSLU	2.1849	-0.6414	-7.31	6.38	
849	338	Shell-Thick	INVSLU	-0.3251	-1.2618	-18.04	1.37	
849	338	Shell-Thick	INVSLU	-0.4045	-0.8121	-16.55	1.37	
849	338	Shell-Thick	INVSLU	0.4308	-0.4941	-16.55	1.00	
849	338	Shell-Thick	INVSLU	0.5117	-0.7630	-18.04	1.00	
850	339	Shell-Thick	INVSLE	0.8577	-0.5127	-6.13	3.41	
850	339	Shell-Thick	INVSLE	0.6253	-0.1908	-5.83	3.41	
850	339	Shell-Thick	INVSLE	2.0348	0.2267	-5.83	2.63	
850	339	Shell-Thick	INVSLE	2.3218	-0.1974	-6.13	2.63	
850	339	Shell-Thick	INVSLE	0.1793	-0.5787	-12.64	0.75	
850	339	Shell-Thick	INVSLE	0.0527	-0.4309	-11.76	0.75	
850	339	Shell-Thick	INVSLE	0.7535	-0.1740	-11.76	0.49	
850	339	Shell-Thick	INVSLE	0.8862	-0.2596	-12.64	0.49	
850	339	Shell-Thick	INVSLU	1.6443	-0.6554	-8.27	6.48	
850	339	Shell-Thick	INVSLU	1.2894	0.0877	-7.87	6.48	
850	339	Shell-Thick	INVSLU	3.5207	0.6913	-7.87	5.12	
850	339	Shell-Thick	INVSLU	3.9866	-0.1253	-8.27	5.12	
850	339	Shell-Thick	INVSLU	0.2420	-0.7912	-20.19	1.02	
850	339	Shell-Thick	INVSLU	0.0712	-0.5818	-18.64	1.02	
850	339	Shell-Thick	INVSLU	1.0172	-0.2348	-18.64	0.66	
850	339	Shell-Thick	INVSLU	1.1964	-0.3505	-20.19	0.66	
851	340	Shell-Thick	INVSLE	1.9685	-0.2112	-6.92	2.70	
851	340	Shell-Thick	INVSLE	1.5701	0.0768	-6.65	2.70	
851	340	Shell-Thick	INVSLE	3.1511	0.5555	-6.65	1.92	
851	340	Shell-Thick	INVSLE	3.6170	0.2227	-6.92	1.92	
851	340	Shell-Thick	INVSLE	0.6976	-0.2846	-14.15	0.50	
851	340	Shell-Thick	INVSLE	0.5062	-0.2362	-13.27	0.50	
851	340	Shell-Thick	INVSLE	1.2996	0.0488	-13.27	0.27	
851	340	Shell-Thick	INVSLE	1.5016	-0.0064	-14.15	0.27	
851	340	Shell-Thick	INVSLU	3.4422	-0.1261	-9.34	5.24	
851	340	Shell-Thick	INVSLU	2.8038	0.4398	-8.97	5.24	
851	340	Shell-Thick	INVSLU	5.2981	1.1430	-8.97	3.84	
851	340	Shell-Thick	INVSLU	6.0701	0.4883	-9.34	3.84	
851	340	Shell-Thick	INVSLU	0.9418	-0.3842	-22.54	0.68	
851	340	Shell-Thick	INVSLU	0.6833	-0.3189	-20.95	0.68	
851	340	Shell-Thick	INVSLU	1.7545	0.0659	-20.95	0.36	
851	340	Shell-Thick	INVSLU	2.0271	-0.0087	-22.54	0.36	
852	341	Shell-Thick	INVSLE	8.8157	1.5952	19.82	-6.161E-02	
852	341	Shell-Thick	INVSLE	7.5189	1.6717	18.86	-6.161E-02	
852	341	Shell-Thick	INVSLE	5.3071	1.1366	18.86	0.66	
852	341	Shell-Thick	INVSLE	6.4718	1.1482	19.82	0.66	
852	341	Shell-Thick	INVSLE	4.3728	0.8159	10.34	-0.18	
852	341	Shell-Thick	INVSLE	3.8585	0.8304	10.15	-0.18	
852	341	Shell-Thick	INVSLE	2.6697	0.5450	10.15	0.10	
852	341	Shell-Thick	INVSLE	3.1486	0.5541	10.34	0.10	
852	341	Shell-Thick	INVSLU	13.9678	2.4990	30.81	-8.318E-02	
852	341	Shell-Thick	INVSLU	11.7637	2.6473	28.97	-8.318E-02	
852	341	Shell-Thick	INVSLU	8.3655	1.8227	28.97	1.31	
852	341	Shell-Thick	INVSLU	10.3255	1.8371	30.81	1.31	
852	341	Shell-Thick	INVSLU	5.9032	1.1015	13.95	-0.31	
852	341	Shell-Thick	INVSLU	5.2089	1.1210	13.70	-0.31	
852	341	Shell-Thick	INVSLU	3.6041	0.7358	13.70	0.14	
852	341	Shell-Thick	INVSLU	4.2507	0.7481	13.95	0.14	
853	342	Shell-Thick	INVSLE	6.7381	1.1227	17.67	0.57	
853	342	Shell-Thick	INVSLE	5.7197	1.2980	16.61	0.57	
853	342	Shell-Thick	INVSLE	3.7554	0.7908	16.61	1.50	
853	342	Shell-Thick	INVSLE	4.6654	0.6877	17.67	1.50	
853	342	Shell-Thick	INVSLE	3.2071	0.5490	9.11	8.232E-02	
853	342	Shell-Thick	INVSLE	2.7902	0.5860	8.81	8.232E-02	
853	342	Shell-Thick	INVSLE	1.7478	0.2925	8.81	0.34	
853	342	Shell-Thick	INVSLE	2.1388	0.2727	9.11	0.34	
853	342	Shell-Thick	INVSLU	10.8328	1.7880	27.59	1.14	
853	342	Shell-Thick	INVSLU	9.1169	2.1236	25.65	1.14	
853	342	Shell-Thick	INVSLU	6.0835	1.3687	25.65	2.84	
853	342	Shell-Thick	INVSLU	7.5953	1.1689	27.59	2.84	
853	342	Shell-Thick	INVSLU	4.3296	0.7411	12.30	0.11	
853	342	Shell-Thick	INVSLU	3.7667	0.7911	11.90	0.11	
853	342	Shell-Thick	INVSLU	2.3595	0.3949	11.90	0.46	
853	342	Shell-Thick	INVSLU	2.8873	0.3682	12.30	0.46	
854	343	Shell-Thick	INVSLE	5.0038	0.6809	15.73	1.42	
854	343	Shell-Thick	INVSLE	4.2509	0.9644	14.62	1.42	
854	343	Shell-Thick	INVSLE	2.5057	0.4827	14.62	2.39	
854	343	Shell-Thick	INVSLE	3.1753	0.2545	15.73	2.39	

854	343 Shell-Thick	INVSLE	2.2709	0.2815	8.01	0.32
854	343 Shell-Thick	INVSLE	1.9554	0.3517	7.65	0.32
854	343 Shell-Thick	INVSLE	1.0415	0.0604	7.65	0.64
854	343 Shell-Thick	INVSLE	1.3406	0.0010	8.01	0.64
854	343 Shell-Thick	INVSLU	8.1730	1.1441	24.67	2.69
854	343 Shell-Thick	INVSLU	6.9128	1.6749	22.70	2.69
854	343 Shell-Thick	INVSLU	4.2037	0.9723	22.70	4.41
854	343 Shell-Thick	INVSLU	5.3029	0.5484	24.67	4.41
854	343 Shell-Thick	INVSLU	3.0657	0.3800	10.82	0.43
854	343 Shell-Thick	INVSLU	2.6398	0.4747	10.32	0.43
854	343 Shell-Thick	INVSLU	1.4060	0.0816	10.32	0.87
854	343 Shell-Thick	INVSLU	1.8098	0.0014	10.82	0.87
855	344 Shell-Thick	INVSLE	3.5626	0.2612	13.98	2.31
855	344 Shell-Thick	INVSLE	3.0381	0.6599	12.85	2.31
855	344 Shell-Thick	INVSLE	1.4911	0.2441	12.85	3.29
855	344 Shell-Thick	INVSLE	1.9497	-0.1110	13.98	3.29
855	344 Shell-Thick	INVSLE	1.5222	0.0192	7.04	0.62
855	344 Shell-Thick	INVSLE	1.2999	0.1302	6.63	0.62
855	344 Shell-Thick	INVSLE	0.4997	-0.1353	6.63	0.98
855	344 Shell-Thick	INVSLE	0.7124	-0.2400	7.04	0.98
855	344 Shell-Thick	INVSLU	5.9287	0.5418	22.02	4.27
855	344 Shell-Thick	INVSLU	5.0538	1.2742	20.07	4.27
855	344 Shell-Thick	INVSLU	2.6407	0.6841	20.07	5.98
855	344 Shell-Thick	INVSLU	3.3845	0.0387	22.02	5.98
855	344 Shell-Thick	INVSLU	2.0550	0.0260	9.50	0.84
855	344 Shell-Thick	INVSLU	1.7548	0.1758	8.95	0.84
855	344 Shell-Thick	INVSLU	0.6746	-0.1827	8.95	1.32
855	344 Shell-Thick	INVSLU	0.9617	-0.3241	9.50	1.32
856	345 Shell-Thick	INVSLE	2.3502	-0.0947	12.41	3.23
856	345 Shell-Thick	INVSLE	2.0476	0.4192	11.30	3.23
856	345 Shell-Thick	INVSLE	0.6749	0.0477	11.30	4.19
856	345 Shell-Thick	INVSLE	0.9305	-0.4354	12.41	4.19
856	345 Shell-Thick	INVSLE	0.9195	-0.2158	6.18	0.96
856	345 Shell-Thick	INVSLE	0.7883	-0.0604	5.75	0.96
856	345 Shell-Thick	INVSLE	0.0870	-0.3031	5.75	1.34
856	345 Shell-Thick	INVSLE	0.2154	-0.4569	6.18	1.34
856	345 Shell-Thick	INVSLU	4.0092	0.0457	19.63	5.85
856	345 Shell-Thick	INVSLU	3.5080	0.9755	17.74	5.85
856	345 Shell-Thick	INVSLU	1.3566	0.4545	17.74	7.50
856	345 Shell-Thick	INVSLU	1.7598	-0.4105	19.63	7.50
856	345 Shell-Thick	INVSLU	1.2413	-0.2914	8.34	1.30
856	345 Shell-Thick	INVSLU	1.0642	-0.0815	7.77	1.30
856	345 Shell-Thick	INVSLU	0.1175	-0.4091	7.77	1.80
856	345 Shell-Thick	INVSLU	0.2908	-0.6168	8.34	1.80
857	346 Shell-Thick	INVSLE	1.3503	-0.4110	10.99	4.13
857	346 Shell-Thick	INVSLE	1.2253	0.2174	9.93	4.13
857	346 Shell-Thick	INVSLE	0.0104	-0.0906	9.93	5.05
857	346 Shell-Thick	INVSLE	0.1009	-0.6394	10.99	5.05
857	346 Shell-Thick	INVSLE	0.4404	-0.4286	5.42	1.32
857	346 Shell-Thick	INVSLE	0.3850	-0.2267	4.99	1.32
857	346 Shell-Thick	INVSLE	-0.2289	-0.4362	4.99	1.69
857	346 Shell-Thick	INVSLE	-0.1718	-0.6964	5.42	1.69
857	346 Shell-Thick	INVSLU	2.4055	-0.3906	17.45	7.38
857	346 Shell-Thick	INVSLU	2.1997	0.7324	15.66	7.38
857	346 Shell-Thick	INVSLU	0.2879	0.3101	15.66	8.95
857	346 Shell-Thick	INVSLU	0.4171	-0.7625	17.45	8.95
857	346 Shell-Thick	INVSLU	0.5945	-0.5786	7.32	1.78
857	346 Shell-Thick	INVSLU	0.5198	-0.3061	6.74	1.78
857	346 Shell-Thick	INVSLU	-0.3090	-0.5889	6.74	2.29
857	346 Shell-Thick	INVSLU	-0.2320	-0.9487	7.32	2.29
858	347 Shell-Thick	INVSLE	0.5086	-0.6090	9.72	5.00
858	347 Shell-Thick	INVSLE	0.5617	0.0711	8.72	5.00
858	347 Shell-Thick	INVSLE	-0.4651	-0.1926	8.72	5.87
858	347 Shell-Thick	INVSLE	-0.4775	-0.7953	9.72	5.87
858	347 Shell-Thick	INVSLE	0.0539	-0.6663	4.74	1.68
858	347 Shell-Thick	INVSLE	0.0725	-0.3612	4.33	1.68
858	347 Shell-Thick	INVSLE	-0.5136	-0.5432	4.33	2.04
858	347 Shell-Thick	INVSLE	-0.5876	-0.9165	4.74	2.04
858	347 Shell-Thick	INVSLU	1.0358	-0.7328	15.48	8.85
858	347 Shell-Thick	INVSLU	1.1290	0.5724	13.81	8.85
858	347 Shell-Thick	INVSLU	-0.5699	0.2138	13.81	10.31
858	347 Shell-Thick	INVSLU	-0.6446	-1.0571	15.48	10.31
858	347 Shell-Thick	INVSLU	0.0728	-0.9081	6.41	2.27
858	347 Shell-Thick	INVSLU	0.0979	-0.4876	5.85	2.27
858	347 Shell-Thick	INVSLU	-0.7006	-0.7333	5.85	2.75
858	347 Shell-Thick	INVSLU	-0.8098	-1.2555	6.41	2.75
859	348 Shell-Thick	INVSLE	-0.1764	-0.7637	8.56	5.82
859	348 Shell-Thick	INVSLE	0.0110	-0.0405	7.64	5.82

859	348	Shell-Thick	INVSLE	-0.6442	-0.2529	7.64	6.63
859	348	Shell-Thick	INVSLE	-0.7116	-0.9213	8.56	6.63
859	348	Shell-Thick	INVSLE	-0.2508	-0.8816	4.15	2.03
859	348	Shell-Thick	INVSLE	-0.1747	-0.4713	3.75	2.03
859	348	Shell-Thick	INVSLE	-0.9367	-0.6228	3.75	2.37
859	348	Shell-Thick	INVSLE	-1.1368	-1.0859	4.15	2.37
859	348	Shell-Thick	INVSLU	-0.0902	-1.0182	13.69	10.22
859	348	Shell-Thick	INVSLU	0.2264	0.4591	12.14	10.22
859	348	Shell-Thick	INVSLU	-0.8697	0.1762	12.14	11.57
859	348	Shell-Thick	INVSLU	-0.9606	-1.2437	13.69	11.57
859	348	Shell-Thick	INVSLU	-0.3386	-1.2078	5.60	2.73
859	348	Shell-Thick	INVSLU	-0.2358	-0.6363	5.07	2.73
859	348	Shell-Thick	INVSLU	-1.3085	-0.8408	5.07	3.20
859	348	Shell-Thick	INVSLU	-1.6299	-1.4907	5.60	3.20
860	349	Shell-Thick	INVSLE	-0.4968	-0.8898	7.51	6.59
860	349	Shell-Thick	INVSLE	-0.3648	-0.1114	6.67	6.59
860	349	Shell-Thick	INVSLE	-0.7740	-0.2855	6.67	7.33
860	349	Shell-Thick	INVSLE	-0.8949	-1.0239	7.51	7.33
860	349	Shell-Thick	INVSLE	-0.7510	-1.0482	3.61	2.36
860	349	Shell-Thick	INVSLE	-0.4271	-0.5554	3.25	2.36
860	349	Shell-Thick	INVSLE	-1.2604	-0.6818	3.25	2.67
860	349	Shell-Thick	INVSLE	-1.5880	-1.2203	3.61	2.67
860	349	Shell-Thick	INVSLU	-0.6707	-1.2013	12.04	11.50
860	349	Shell-Thick	INVSLU	-0.4924	0.4034	10.64	11.50
860	349	Shell-Thick	INVSLU	-1.0449	0.1739	10.64	12.73
860	349	Shell-Thick	INVSLU	-1.2081	-1.3822	12.04	12.73
860	349	Shell-Thick	INVSLU	-1.0519	-1.4389	4.87	3.18
860	349	Shell-Thick	INVSLU	-0.5859	-0.7498	4.38	3.18
860	349	Shell-Thick	INVSLU	-1.8245	-0.9204	4.38	3.61
860	349	Shell-Thick	INVSLU	-2.3917	-1.6769	4.87	3.61
861	350	Shell-Thick	INVSLE	-0.6894	-0.9932	6.55	7.29
861	350	Shell-Thick	INVSLE	-0.5159	-0.1558	5.79	7.29
861	350	Shell-Thick	INVSLE	-0.8706	-0.2917	5.79	7.96
861	350	Shell-Thick	INVSLE	-1.0320	-1.1034	6.55	7.96
861	350	Shell-Thick	INVSLE	-1.2123	-1.1809	3.13	2.66
861	350	Shell-Thick	INVSLE	-0.7903	-0.6196	2.79	2.66
861	350	Shell-Thick	INVSLE	-1.5178	-0.7216	2.79	2.95
861	350	Shell-Thick	INVSLE	-1.9387	-1.3179	3.13	2.95
861	350	Shell-Thick	INVSLU	-0.9306	-1.3409	10.53	12.66
861	350	Shell-Thick	INVSLU	-0.6965	0.3821	9.26	12.66
861	350	Shell-Thick	INVSLU	-1.1754	0.2069	9.26	13.77
861	350	Shell-Thick	INVSLU	-1.3932	-1.4897	10.53	13.77
861	350	Shell-Thick	INVSLU	-1.8187	-1.6224	4.22	3.60
861	350	Shell-Thick	INVSLU	-1.1085	-0.8365	3.77	3.60
861	350	Shell-Thick	INVSLU	-2.2683	-0.9741	3.77	3.99
861	350	Shell-Thick	INVSLU	-2.9901	-1.8113	4.22	3.99
862	351	Shell-Thick	INVSLE	-0.8450	-1.0745	5.67	7.93
862	351	Shell-Thick	INVSLE	-0.6316	-0.1742	4.99	7.93
862	351	Shell-Thick	INVSLE	-0.9371	-0.2802	4.99	8.53
862	351	Shell-Thick	INVSLE	-1.1377	-1.1651	5.67	8.53
862	351	Shell-Thick	INVSLE	-1.5973	-1.2786	2.69	2.95
862	351	Shell-Thick	INVSLE	-1.0758	-0.6653	2.39	2.95
862	351	Shell-Thick	INVSLE	-1.7066	-0.7471	2.39	3.21
862	351	Shell-Thick	INVSLE	-2.2219	-1.3892	2.69	3.21
862	351	Shell-Thick	INVSLU	-1.1408	-1.4506	9.13	13.72
862	351	Shell-Thick	INVSLU	-0.8526	0.3953	8.00	13.72
862	351	Shell-Thick	INVSLU	-1.2651	0.2612	8.00	14.70
862	351	Shell-Thick	INVSLU	-1.5358	-1.5729	9.13	14.70
862	351	Shell-Thick	INVSLU	-2.4696	-1.7568	3.63	3.98
862	351	Shell-Thick	INVSLU	-1.5908	-0.8982	3.23	3.98
862	351	Shell-Thick	INVSLU	-2.5989	-1.0086	3.23	4.33
862	351	Shell-Thick	INVSLU	-3.4793	-1.9090	3.63	4.33
863	352	Shell-Thick	INVSLE	-0.9661	-1.1383	4.85	8.50
863	352	Shell-Thick	INVSLE	-0.7245	-0.1756	4.25	8.50
863	352	Shell-Thick	INVSLE	-0.9847	-0.2553	4.25	9.02
863	352	Shell-Thick	INVSLE	-1.2138	-1.2108	4.85	9.02
863	352	Shell-Thick	INVSLE	-1.9025	-1.3511	2.29	3.20
863	352	Shell-Thick	INVSLE	-1.3126	-0.6971	2.03	3.20
863	352	Shell-Thick	INVSLE	-1.8528	-0.7610	2.03	3.43
863	352	Shell-Thick	INVSLE	-2.4346	-1.4364	2.29	3.43
863	352	Shell-Thick	INVSLU	-1.3042	-1.5367	7.82	14.65
863	352	Shell-Thick	INVSLU	-0.9780	0.4290	6.84	14.65
863	352	Shell-Thick	INVSLU	-1.3293	0.3311	6.84	15.51
863	352	Shell-Thick	INVSLU	-1.6386	-1.6346	7.82	15.51
863	352	Shell-Thick	INVSLU	-2.9883	-1.8559	3.09	4.32
863	352	Shell-Thick	INVSLU	-1.9946	-0.9411	2.73	4.32
863	352	Shell-Thick	INVSLU	-2.8594	-1.0274	2.73	4.63
863	352	Shell-Thick	INVSLU	-3.8502	-1.9730	3.09	4.63

864	353	Shell-Thick	INVSLE	-1.0642	-1.1867	4.08	9.00
864	353	Shell-Thick	INVSLE	-0.7955	-0.1638	3.57	9.00
864	353	Shell-Thick	INVSLE	-1.0140	-0.2226	3.57	9.45
864	353	Shell-Thick	INVSLE	-1.2706	-1.2442	4.08	9.45
864	353	Shell-Thick	INVSLE	-2.1557	-1.4010	1.92	3.42
864	353	Shell-Thick	INVSLE	-1.4968	-0.7174	1.69	3.42
864	353	Shell-Thick	INVSLE	-1.9526	-0.7667	1.69	3.62
864	353	Shell-Thick	INVSLE	-2.6014	-1.4668	1.92	3.62
864	353	Shell-Thick	INVSLU	-1.4367	-1.6020	6.60	15.48
864	353	Shell-Thick	INVSLU	-1.0739	0.4782	5.75	15.48
864	353	Shell-Thick	INVSLU	-1.3688	0.4083	5.75	16.21
864	353	Shell-Thick	INVSLU	-1.7154	-1.6797	6.60	16.21
864	353	Shell-Thick	INVSLU	-3.4214	-1.9235	2.59	4.62
864	353	Shell-Thick	INVSLU	-2.3100	-0.9685	2.28	4.62
864	353	Shell-Thick	INVSLU	-3.0410	-1.0350	2.28	4.89
864	353	Shell-Thick	INVSLU	-4.1446	-2.0135	2.59	4.89
865	354	Shell-Thick	INVSLE	-1.1400	-1.2231	3.36	9.43
865	354	Shell-Thick	INVSLE	-0.8534	-0.1445	2.93	9.43
865	354	Shell-Thick	INVSLE	-1.0327	-0.1866	2.93	9.81
865	354	Shell-Thick	INVSLE	-1.3086	-1.2674	3.36	9.81
865	354	Shell-Thick	INVSLE	-2.3534	-1.4347	1.57	3.61
865	354	Shell-Thick	INVSLE	-1.6500	-0.7295	1.38	3.61
865	354	Shell-Thick	INVSLE	-2.0255	-0.7666	1.38	3.78
865	354	Shell-Thick	INVSLE	-2.7190	-1.4836	1.57	3.78
865	354	Shell-Thick	INVSLU	-1.5390	-1.6512	5.43	16.18
865	354	Shell-Thick	INVSLU	-1.1520	0.5339	4.73	16.18
865	354	Shell-Thick	INVSLU	-1.3941	0.4859	4.73	16.80
865	354	Shell-Thick	INVSLU	-1.7666	-1.7110	5.43	16.80
865	354	Shell-Thick	INVSLU	-3.7605	-1.9686	2.12	4.88
865	354	Shell-Thick	INVSLU	-2.5739	-0.9849	1.87	4.88
865	354	Shell-Thick	INVSLU	-3.1768	-1.0350	1.87	5.10
865	354	Shell-Thick	INVSLU	-4.3547	-2.0353	2.12	5.10
866	355	Shell-Thick	INVSLE	-1.2015	-1.2497	2.67	9.79
866	355	Shell-Thick	INVSLE	-0.8979	-0.1220	2.33	9.79
866	355	Shell-Thick	INVSLE	-1.0403	-0.1510	2.33	10.10
866	355	Shell-Thick	INVSLE	-1.3346	-1.2830	2.67	10.10
866	355	Shell-Thick	INVSLE	-2.5158	-1.4560	1.25	3.78
866	355	Shell-Thick	INVSLE	-1.7679	-0.7360	1.09	3.78
866	355	Shell-Thick	INVSLE	-2.0671	-0.7631	1.09	3.91
866	355	Shell-Thick	INVSLE	-2.8055	-1.4915	1.25	3.91
866	355	Shell-Thick	INVSLU	-1.6220	-1.6871	4.33	16.77
866	355	Shell-Thick	INVSLU	-1.2121	0.5899	3.76	16.77
866	355	Shell-Thick	INVSLU	-1.4044	0.5587	3.76	17.27
866	355	Shell-Thick	INVSLU	-1.8017	-1.7321	4.33	17.27
866	355	Shell-Thick	INVSLU	-4.0400	-1.9966	1.68	5.10
866	355	Shell-Thick	INVSLU	-2.7768	-0.9936	1.48	5.10
866	355	Shell-Thick	INVSLU	-3.2578	-1.0302	1.48	5.28
866	355	Shell-Thick	INVSLU	-4.5113	-2.0449	1.68	5.28
867	356	Shell-Thick	INVSLE	-1.2483	-1.2688	2.01	10.09
867	356	Shell-Thick	INVSLE	-0.9350	-0.1001	1.75	10.09
867	356	Shell-Thick	INVSLE	-1.0421	-0.1194	1.75	10.31
867	356	Shell-Thick	INVSLE	-1.3481	-1.2927	2.01	10.31
867	356	Shell-Thick	INVSLE	-2.6391	-1.4690	0.94	3.91
867	356	Shell-Thick	INVSLE	-1.8663	-0.7390	0.82	3.91
867	356	Shell-Thick	INVSLE	-2.0918	-0.7580	0.82	4.01
867	356	Shell-Thick	INVSLE	-2.8568	-1.4936	0.94	4.01
867	356	Shell-Thick	INVSLU	-1.6852	-1.7011	3.26	17.25
867	356	Shell-Thick	INVSLU	-1.2623	0.6407	2.83	17.25
867	356	Shell-Thick	INVSLU	-1.4068	0.6211	2.83	17.63
867	356	Shell-Thick	INVSLU	-1.8199	-1.7265	3.26	17.63
867	356	Shell-Thick	INVSLU	-4.2519	-2.0131	1.26	5.28
867	356	Shell-Thick	INVSLU	-2.9462	-0.9977	1.11	5.28
867	356	Shell-Thick	INVSLU	-3.3090	-1.0232	1.11	5.41
867	356	Shell-Thick	INVSLU	-4.6065	-2.0465	1.26	5.41
868	357	Shell-Thick	INVSLE	-1.2860	-1.2822	1.37	10.31
868	357	Shell-Thick	INVSLE	-0.9637	-0.0822	1.19	10.31
868	357	Shell-Thick	INVSLE	-1.0368	-0.0938	1.19	10.47
868	357	Shell-Thick	INVSLE	-1.3537	-1.2979	1.37	10.47
868	357	Shell-Thick	INVSLE	-2.7378	-1.4767	0.64	4.01
868	357	Shell-Thick	INVSLE	-1.9402	-0.7404	0.56	4.01
868	357	Shell-Thick	INVSLE	-2.0943	-0.7525	0.56	4.08
868	357	Shell-Thick	INVSLE	-2.8860	-1.4924	0.64	4.08
868	357	Shell-Thick	INVSLU	-1.7360	-1.7022	2.23	17.61
868	357	Shell-Thick	INVSLU	-1.3010	0.6811	1.93	17.61
868	357	Shell-Thick	INVSLU	-1.3997	0.6701	1.93	17.87
868	357	Shell-Thick	INVSLU	-1.8276	-1.7180	2.23	17.87
868	357	Shell-Thick	INVSLU	-4.4213	-2.0227	0.86	5.41
868	357	Shell-Thick	INVSLU	-3.0725	-0.9995	0.75	5.41

868	357	Shell-Thick	INVSLU	-3.3207	-1.0159	0.75	5.50
868	357	Shell-Thick	INVSLU	-4.6628	-2.0439	0.86	5.50
869	358	Shell-Thick	INVSLE	-1.3134	-1.2911	0.75	10.46
869	358	Shell-Thick	INVSLE	-0.9882	-0.0703	0.65	10.46
869	358	Shell-Thick	INVSLE	-1.0281	-0.0763	0.65	10.55
869	358	Shell-Thick	INVSLE	-1.3502	-1.2995	0.75	10.55
869	358	Shell-Thick	INVSLE	-2.8070	-1.4815	0.35	4.08
869	358	Shell-Thick	INVSLE	-2.0013	-0.7415	0.30	4.08
869	358	Shell-Thick	INVSLE	-2.0854	-0.7478	0.30	4.11
869	358	Shell-Thick	INVSLE	-2.8877	-1.4898	0.35	4.11
869	358	Shell-Thick	INVSLU	-1.7730	-1.7022	1.21	17.86
869	358	Shell-Thick	INVSLU	-1.3341	0.7079	1.05	17.86
869	358	Shell-Thick	INVSLU	-1.3879	0.7025	1.05	18.01
869	358	Shell-Thick	INVSLU	-1.8228	-1.7104	1.21	18.01
869	358	Shell-Thick	INVSLU	-4.5391	-2.0285	0.47	5.50
869	358	Shell-Thick	INVSLU	-3.1760	-1.0010	0.41	5.50
869	358	Shell-Thick	INVSLU	-3.3115	-1.0096	0.41	5.55
869	358	Shell-Thick	INVSLU	-4.6706	-2.0397	0.47	5.55
870	359	Shell-Thick	INVSLE	-1.3342	-1.2967	0.13	10.55
870	359	Shell-Thick	INVSLE	-1.0069	-0.0665	0.11	10.55
870	359	Shell-Thick	INVSLE	-1.0139	-0.0675	0.11	10.56
870	359	Shell-Thick	INVSLE	-1.3407	-1.2982	0.13	10.56
870	359	Shell-Thick	INVSLE	-2.8573	-1.4851	6.100E-02	4.11
870	359	Shell-Thick	INVSLE	-2.0436	-0.7432	5.327E-02	4.11
870	359	Shell-Thick	INVSLE	-2.0585	-0.7443	5.327E-02	4.12
870	359	Shell-Thick	INVSLE	-2.8714	-1.4868	6.100E-02	4.12
870	359	Shell-Thick	INVSLU	-1.8012	-1.7037	0.21	18.00
870	359	Shell-Thick	INVSLU	-1.3593	0.7183	0.18	18.00
870	359	Shell-Thick	INVSLU	-1.3688	0.7173	0.18	18.03
870	359	Shell-Thick	INVSLU	-1.8099	-1.7054	0.21	18.03
870	359	Shell-Thick	INVSLU	-4.6236	-2.0332	8.235E-02	5.55
870	359	Shell-Thick	INVSLU	-3.2459	-1.0034	7.192E-02	5.55
870	359	Shell-Thick	INVSLU	-3.2699	-1.0048	7.192E-02	5.56
870	359	Shell-Thick	INVSLU	-4.6464	-2.0354	8.235E-02	5.56
871	360	Shell-Thick	INVSLE	-1.3467	-1.2993	-0.22	10.56
871	360	Shell-Thick	INVSLE	-1.0226	-0.0715	-0.20	10.56
871	360	Shell-Thick	INVSLE	-0.9970	-0.0678	-0.20	10.51
871	360	Shell-Thick	INVSLE	-1.3227	-1.2940	-0.22	10.51
871	360	Shell-Thick	INVSLE	-2.8823	-1.4884	-0.48	4.12
871	360	Shell-Thick	INVSLE	-2.0760	-0.7462	-0.42	4.12
871	360	Shell-Thick	INVSLE	-2.0218	-0.7421	-0.42	4.10
871	360	Shell-Thick	INVSLE	-2.8298	-1.4835	-0.48	4.10
871	360	Shell-Thick	INVSLU	-1.8180	-1.7078	-0.30	18.03
871	360	Shell-Thick	INVSLU	-1.3806	0.7108	-0.27	18.03
871	360	Shell-Thick	INVSLU	-1.3459	0.7141	-0.27	17.94
871	360	Shell-Thick	INVSLU	-1.7857	-1.7033	-0.30	17.94
871	360	Shell-Thick	INVSLU	-4.6630	-2.0377	-0.79	5.56
871	360	Shell-Thick	INVSLU	-3.2975	-1.0073	-0.68	5.56
871	360	Shell-Thick	INVSLU	-3.2103	-1.0018	-0.68	5.53
871	360	Shell-Thick	INVSLU	-4.5775	-2.0312	-0.79	5.53
872	361	Shell-Thick	INVSLE	-1.3532	-1.2989	-0.51	10.51
872	361	Shell-Thick	INVSLE	-1.0331	-0.0855	-0.45	10.51
872	361	Shell-Thick	INVSLE	-0.9744	-0.0765	-0.45	10.38
872	361	Shell-Thick	INVSLE	-1.2986	-1.2866	-0.51	10.38
872	361	Shell-Thick	INVSLE	-2.8896	-1.4915	-1.11	4.10
872	361	Shell-Thick	INVSLE	-2.0907	-0.7504	-0.96	4.10
872	361	Shell-Thick	INVSLE	-1.9669	-0.7408	-0.96	4.04
872	361	Shell-Thick	INVSLE	-2.7701	-1.4796	-1.11	4.04
872	361	Shell-Thick	INVSLU	-1.8268	-1.7149	-0.69	17.94
872	361	Shell-Thick	INVSLU	-1.3946	0.6855	-0.61	17.94
872	361	Shell-Thick	INVSLU	-1.3155	0.6938	-0.61	17.74
872	361	Shell-Thick	INVSLU	-1.7531	-1.7034	-0.69	17.74
872	361	Shell-Thick	INVSLU	-4.6711	-2.0425	-1.79	5.53
872	361	Shell-Thick	INVSLU	-3.3171	-1.0130	-1.55	5.53
872	361	Shell-Thick	INVSLU	-3.1177	-1.0000	-1.55	5.46
872	361	Shell-Thick	INVSLU	-4.4764	-2.0264	-1.79	5.46
873	362	Shell-Thick	INVSLE	-1.3508	-1.2954	-0.81	10.39
873	362	Shell-Thick	INVSLE	-1.0404	-0.1080	-0.71	10.39
873	362	Shell-Thick	INVSLE	-0.9481	-0.0922	-0.71	10.19
873	362	Shell-Thick	INVSLE	-1.2647	-1.2752	-0.81	10.19
873	362	Shell-Thick	INVSLE	-2.8702	-1.4937	-1.74	4.04
873	362	Shell-Thick	INVSLE	-2.0945	-0.7556	-1.51	4.04
873	362	Shell-Thick	INVSLE	-1.9001	-0.7396	-1.51	3.95
873	362	Shell-Thick	INVSLE	-2.6820	-1.4735	-1.74	3.95
873	362	Shell-Thick	INVSLU	-1.8236	-1.7236	-1.09	17.75
873	362	Shell-Thick	INVSLU	-1.4045	0.6430	-0.95	17.75
873	362	Shell-Thick	INVSLU	-1.2799	0.6586	-0.95	17.42
873	362	Shell-Thick	INVSLU	-1.7074	-1.7035	-1.09	17.42

873	362	Shell-Thick	INVSLU	-4.6320	-2.0462	-2.82	5.46
873	362	Shell-Thick	INVSLU	-3.3170	-1.0201	-2.44	5.46
873	362	Shell-Thick	INVSLU	-3.0041	-0.9985	-2.44	5.34
873	362	Shell-Thick	INVSLU	-4.3255	-2.0190	-2.82	5.34
874	363	Shell-Thick	INVSLE	-1.3413	-1.2877	-1.11	10.20
874	363	Shell-Thick	INVSLE	-1.0410	-0.1373	-0.98	10.20
874	363	Shell-Thick	INVSLE	-0.9140	-0.1128	-0.98	9.93
874	363	Shell-Thick	INVSLE	-1.2225	-1.2586	-1.11	9.93
874	363	Shell-Thick	INVSLE	-2.8299	-1.4934	-2.39	3.96
874	363	Shell-Thick	INVSLE	-2.0774	-0.7609	-2.08	3.96
874	363	Shell-Thick	INVSLE	-1.8103	-0.7374	-2.08	3.84
874	363	Shell-Thick	INVSLE	-2.5711	-1.4632	-2.39	3.84
874	363	Shell-Thick	INVSLU	-1.8107	-1.7319	-1.50	17.44
874	363	Shell-Thick	INVSLU	-1.4053	0.5859	-1.32	17.44
874	363	Shell-Thick	INVSLU	-1.2339	0.6115	-1.32	16.99
874	363	Shell-Thick	INVSLU	-1.6504	-1.6992	-1.50	16.99
874	363	Shell-Thick	INVSLU	-4.5562	-2.0470	-3.87	5.34
874	363	Shell-Thick	INVSLU	-3.2792	-1.0273	-3.36	5.34
874	363	Shell-Thick	INVSLU	-2.8496	-0.9955	-3.36	5.18
874	363	Shell-Thick	INVSLU	-4.1349	-2.0061	-3.87	5.18
875	364	Shell-Thick	INVSLE	-1.3200	-1.2748	-1.43	9.94
875	364	Shell-Thick	INVSLE	-1.0365	-0.1716	-1.26	9.94
875	364	Shell-Thick	INVSLE	-0.8734	-0.1354	-1.26	9.60
875	364	Shell-Thick	INVSLE	-1.1666	-1.2354	-1.43	9.60
875	364	Shell-Thick	INVSLE	-2.7563	-1.4884	-3.06	3.84
875	364	Shell-Thick	INVSLE	-2.0448	-0.7653	-2.67	3.84
875	364	Shell-Thick	INVSLE	-1.7029	-0.7325	-2.67	3.69
875	364	Shell-Thick	INVSLE	-2.4232	-1.4460	-3.06	3.69
875	364	Shell-Thick	INVSLU	-1.7820	-1.7209	-1.93	17.02
875	364	Shell-Thick	INVSLU	-1.3993	0.5167	-1.70	17.02
875	364	Shell-Thick	INVSLU	-1.1791	0.5571	-1.70	16.45
875	364	Shell-Thick	INVSLU	-1.5750	-1.6678	-1.93	16.45
875	364	Shell-Thick	INVSLU	-4.4220	-2.0413	-4.95	5.18
875	364	Shell-Thick	INVSLU	-3.2141	-1.0331	-4.31	5.18
875	364	Shell-Thick	INVSLU	-2.6647	-0.9889	-4.31	4.98
875	364	Shell-Thick	INVSLU	-3.8803	-1.9837	-4.95	4.98
876	365	Shell-Thick	INVSLE	-1.2879	-1.2550	-1.77	9.61
876	365	Shell-Thick	INVSLE	-1.0219	-0.2077	-1.56	9.61
876	365	Shell-Thick	INVSLE	-0.8206	-0.1563	-1.56	9.20
876	365	Shell-Thick	INVSLE	-1.0979	-1.2033	-1.77	9.20
876	365	Shell-Thick	INVSLE	-2.6541	-1.4759	-3.77	3.69
876	365	Shell-Thick	INVSLE	-1.9831	-0.7669	-3.29	3.69
876	365	Shell-Thick	INVSLE	-1.5625	-0.7229	-3.29	3.51
876	365	Shell-Thick	INVSLE	-2.2429	-1.4178	-3.77	3.51
876	365	Shell-Thick	INVSLU	-1.7387	-1.6942	-2.38	16.48
876	365	Shell-Thick	INVSLU	-1.3796	0.4407	-2.10	16.48
876	365	Shell-Thick	INVSLU	-1.1078	0.5008	-2.10	15.80
876	365	Shell-Thick	INVSLU	-1.4821	-1.6244	-2.38	15.80
876	365	Shell-Thick	INVSLU	-4.2384	-2.0256	-6.09	4.99
876	365	Shell-Thick	INVSLU	-3.0977	-1.0353	-5.31	4.99
876	365	Shell-Thick	INVSLU	-2.4228	-0.9759	-5.31	4.74
876	365	Shell-Thick	INVSLU	-3.5708	-1.9463	-6.09	4.74
877	366	Shell-Thick	INVSLE	-1.2383	-1.2259	-2.12	9.22
877	366	Shell-Thick	INVSLE	-0.9980	-0.2421	-1.88	9.22
877	366	Shell-Thick	INVSLE	-0.7562	-0.1717	-1.88	8.73
877	366	Shell-Thick	INVSLE	-1.0085	-1.1602	-2.12	8.73
877	366	Shell-Thick	INVSLE	-2.5056	-1.4514	-4.52	3.51
877	366	Shell-Thick	INVSLE	-1.8971	-0.7638	-3.96	3.51
877	366	Shell-Thick	INVSLE	-1.3943	-0.7062	-3.96	3.30
877	366	Shell-Thick	INVSLE	-2.0107	-1.3755	-4.52	3.30
877	366	Shell-Thick	INVSLU	-1.6718	-1.6550	-2.87	15.83
877	366	Shell-Thick	INVSLU	-1.3473	0.3628	-2.54	15.83
877	366	Shell-Thick	INVSLU	-1.0209	0.4480	-2.54	15.02
877	366	Shell-Thick	INVSLU	-1.3615	-1.5663	-2.87	15.02
877	366	Shell-Thick	INVSLU	-3.9752	-1.9933	-7.29	4.74
877	366	Shell-Thick	INVSLU	-2.9397	-1.0311	-6.36	4.74
877	366	Shell-Thick	INVSLU	-2.1341	-0.9533	-6.36	4.45
877	366	Shell-Thick	INVSLU	-3.1728	-1.8892	-7.29	4.45
878	367	Shell-Thick	INVSLE	-1.1715	-1.1857	-2.51	8.75
878	367	Shell-Thick	INVSLE	-0.9575	-0.2708	-2.23	8.75
878	367	Shell-Thick	INVSLE	-0.6720	-0.1757	-2.23	8.19
878	367	Shell-Thick	INVSLE	-0.8985	-1.1028	-2.51	8.19
878	367	Shell-Thick	INVSLE	-2.3152	-1.4121	-5.31	3.31
878	367	Shell-Thick	INVSLE	-1.7680	-0.7535	-4.67	3.31
878	367	Shell-Thick	INVSLE	-1.1771	-0.6792	-4.67	3.06
878	367	Shell-Thick	INVSLE	-1.7308	-1.3124	-5.31	3.06
878	367	Shell-Thick	INVSLU	-1.5815	-1.6007	-3.39	15.07
878	367	Shell-Thick	INVSLU	-1.2926	0.2891	-3.01	15.07

878	367	Shell-Thick	INVSLU	-0.9071	0.4081	-3.01	14.14
878	367	Shell-Thick	INVSLU	-1.2130	-1.4888	-3.39	14.14
878	367	Shell-Thick	INVSLU	-3.6416	-1.9403	-8.56	4.46
878	367	Shell-Thick	INVSLU	-2.7079	-1.0172	-7.49	4.46
878	367	Shell-Thick	INVSLU	-1.7629	-0.9169	-7.49	4.13
878	367	Shell-Thick	INVSLU	-2.6960	-1.8032	-8.56	4.13
879	368	Shell-Thick	INVSLE	-1.0774	-1.1306	-2.93	8.22
879	368	Shell-Thick	INVSLE	-0.9001	-0.2878	-2.62	8.22
879	368	Shell-Thick	INVSLE	-0.5674	-0.1653	-2.62	7.58
879	368	Shell-Thick	INVSLE	-0.7566	-1.0293	-2.93	7.58
879	368	Shell-Thick	INVSLE	-2.0587	-1.3506	-6.17	3.07
879	368	Shell-Thick	INVSLE	-1.6002	-0.7328	-5.44	3.07
879	368	Shell-Thick	INVSLE	-0.9159	-0.6396	-5.44	2.79
879	368	Shell-Thick	INVSLE	-1.3763	-1.2265	-6.17	2.79
879	368	Shell-Thick	INVSLU	-1.4545	-1.5264	-3.96	14.19
879	368	Shell-Thick	INVSLU	-1.2152	0.2283	-3.53	14.19
879	368	Shell-Thick	INVSLU	-0.7660	0.3848	-3.53	13.13
879	368	Shell-Thick	INVSLU	-1.0214	-1.3896	-3.96	13.13
879	368	Shell-Thick	INVSLU	-3.1966	-1.8563	-9.92	4.14
879	368	Shell-Thick	INVSLU	-2.4120	-0.9893	-8.71	4.14
879	368	Shell-Thick	INVSLU	-1.3200	-0.8635	-8.71	3.77
879	368	Shell-Thick	INVSLU	-2.0949	-1.6854	-9.92	3.77
880	369	Shell-Thick	INVSLE	-0.9550	-1.0590	-3.40	7.61
880	369	Shell-Thick	INVSLE	-0.8155	-0.2898	-3.05	7.61
880	369	Shell-Thick	INVSLE	-0.4305	-0.1308	-3.05	6.90
880	369	Shell-Thick	INVSLE	-0.5814	-0.9348	-3.40	6.90
880	369	Shell-Thick	INVSLE	-1.7401	-1.2654	-7.09	2.80
880	369	Shell-Thick	INVSLE	-1.3687	-0.6992	-6.28	2.80
880	369	Shell-Thick	INVSLE	-0.5823	-0.5828	-6.28	2.49
880	369	Shell-Thick	INVSLE	-0.9516	-1.1075	-7.09	2.49
880	369	Shell-Thick	INVSLU	-1.2893	-1.4297	-4.58	13.20
880	369	Shell-Thick	INVSLU	-1.1009	0.1851	-4.11	13.20
880	369	Shell-Thick	INVSLU	-0.5812	0.3932	-4.11	12.02
880	369	Shell-Thick	INVSLU	-0.7849	-1.2619	-4.58	12.02
880	369	Shell-Thick	INVSLU	-2.6506	-1.7392	-11.38	3.78
880	369	Shell-Thick	INVSLU	-2.0103	-0.9440	-10.03	3.78
880	369	Shell-Thick	INVSLU	-0.8089	-0.7867	-10.03	3.37
880	369	Shell-Thick	INVSLU	-1.3808	-1.5210	-11.38	3.37
881	370	Shell-Thick	INVSLE	-0.7903	-0.9655	-3.91	6.94
881	370	Shell-Thick	INVSLE	-0.7011	-0.2672	-3.53	6.94
881	370	Shell-Thick	INVSLE	-0.1803	-0.0726	-3.53	6.16
881	370	Shell-Thick	INVSLE	-0.3570	-0.8188	-3.91	6.16
881	370	Shell-Thick	INVSLE	-1.3275	-1.1451	-8.10	2.50
881	370	Shell-Thick	INVSLE	-1.0766	-0.6479	-7.21	2.50
881	370	Shell-Thick	INVSLE	-0.2588	-0.5075	-7.21	2.17
881	370	Shell-Thick	INVSLE	-0.4207	-0.9570	-8.10	2.17
881	370	Shell-Thick	INVSLU	-1.0668	-1.3034	-5.27	12.09
881	370	Shell-Thick	INVSLU	-0.9465	0.1742	-4.76	12.09
881	370	Shell-Thick	INVSLU	-0.0893	0.4318	-4.76	10.79
881	370	Shell-Thick	INVSLU	-0.4819	-1.1053	-5.27	10.79
881	370	Shell-Thick	INVSLU	-1.9504	-1.5728	-12.96	3.38
881	370	Shell-Thick	INVSLU	-1.5119	-0.8747	-11.48	3.38
881	370	Shell-Thick	INVSLU	-0.3493	-0.6851	-11.48	2.93
881	370	Shell-Thick	INVSLU	-0.5775	-1.3127	-12.96	2.93
882	371	Shell-Thick	INVSLE	-0.5793	-0.8500	-4.48	6.21
882	371	Shell-Thick	INVSLE	-0.5422	-0.2201	-4.07	6.21
882	371	Shell-Thick	INVSLE	0.3265	0.0245	-4.07	5.36
882	371	Shell-Thick	INVSLE	0.2126	-0.6748	-4.48	5.36
882	371	Shell-Thick	INVSLE	-0.8238	-0.9925	-9.21	2.19
882	371	Shell-Thick	INVSLE	-0.6920	-0.5774	-8.24	2.19
882	371	Shell-Thick	INVSLE	-0.0351	-0.4071	-8.24	1.83
882	371	Shell-Thick	INVSLE	-0.0792	-0.7595	-9.21	1.83
882	371	Shell-Thick	INVSLU	-0.7821	-1.1474	-6.05	10.88
882	371	Shell-Thick	INVSLU	-0.7320	0.1944	-5.50	10.88
882	371	Shell-Thick	INVSLU	0.7457	0.5250	-5.50	9.46
882	371	Shell-Thick	INVSLU	0.5509	-0.8576	-6.05	9.46
882	371	Shell-Thick	INVSLU	-1.1488	-1.3612	-14.69	2.95
882	371	Shell-Thick	INVSLU	-0.9567	-0.7795	-13.07	2.95
882	371	Shell-Thick	INVSLU	-0.0474	-0.5496	-13.07	2.47
882	371	Shell-Thick	INVSLU	-0.1069	-1.0380	-14.69	2.47
883	372	Shell-Thick	INVSLE	-0.1897	-0.7052	-5.12	5.42
883	372	Shell-Thick	INVSLE	-0.2141	-0.1330	-4.70	5.42
883	372	Shell-Thick	INVSLE	0.9376	0.1535	-4.70	4.51
883	372	Shell-Thick	INVSLE	0.9928	-0.5060	-5.12	4.51
883	372	Shell-Thick	INVSLE	-0.3029	-0.7905	-10.43	1.85
883	372	Shell-Thick	INVSLE	-0.3317	-0.4808	-9.39	1.85
883	372	Shell-Thick	INVSLE	0.2476	-0.2836	-9.39	1.48
883	372	Shell-Thick	INVSLE	0.2736	-0.5241	-10.43	1.48

883	372	Shell-Thick	INVSLU	-0.0584	-0.8894	-6.91	9.56	
883	372	Shell-Thick	INVSLU	-0.0776	0.2703	-6.34	9.56	
883	372	Shell-Thick	INVSLU	1.7378	0.6605	-6.34	8.03	
883	372	Shell-Thick	INVSLU	1.8268	-0.5451	-6.91	8.03	
883	372	Shell-Thick	INVSLU	-0.4089	-1.0800	-16.58	2.49	
883	372	Shell-Thick	INVSLU	-0.4478	-0.6491	-14.84	2.49	
883	372	Shell-Thick	INVSLU	0.3343	-0.3829	-14.84	1.99	
883	372	Shell-Thick	INVSLU	0.3694	-0.7102	-16.58	1.99	
884	373	Shell-Thick	INVSLE	0.5765	-0.5347	-5.84	4.57	
884	373	Shell-Thick	INVSLE	0.3942	-0.0126	-5.41	4.57	
884	373	Shell-Thick	INVSLE	1.6963	0.3368	-5.41	3.62	
884	373	Shell-Thick	INVSLE	1.9209	-0.2283	-5.84	3.62	
884	373	Shell-Thick	INVSLE	0.0481	-0.5499	-11.78	1.49	
884	373	Shell-Thick	INVSLE	-0.0492	-0.3594	-10.69	1.49	
884	373	Shell-Thick	INVSLE	0.6127	-0.1285	-10.69	1.12	
884	373	Shell-Thick	INVSLE	0.7113	-0.3044	-11.78	1.12	
884	373	Shell-Thick	INVSLU	1.1893	-0.5675	-7.88	8.15	
884	373	Shell-Thick	INVSLU	0.9085	0.3896	-7.31	8.15	
884	373	Shell-Thick	INVSLU	2.9529	0.8765	-7.31	6.53	
884	373	Shell-Thick	INVSLU	3.3236	-0.1399	-7.88	6.53	
884	373	Shell-Thick	INVSLU	0.0649	-0.7446	-18.66	2.02	
884	373	Shell-Thick	INVSLU	-0.0665	-0.4852	-16.82	2.02	
884	373	Shell-Thick	INVSLU	0.8272	-0.1735	-16.82	1.51	
884	373	Shell-Thick	INVSLU	0.9602	-0.4110	-18.66	1.51	
885	374	Shell-Thick	INVSLE	1.5193	-0.2465	-6.66	3.69	
885	374	Shell-Thick	INVSLE	1.1436	0.1642	-6.24	3.69	
885	374	Shell-Thick	INVSLE	2.6115	0.5576	-6.24	2.71	
885	374	Shell-Thick	INVSLE	3.0475	0.1070	-6.66	2.71	
885	374	Shell-Thick	INVSLE	0.4992	-0.3297	-13.28	1.14	
885	374	Shell-Thick	INVSLE	0.3208	-0.2040	-12.16	1.14	
885	374	Shell-Thick	INVSLE	1.0762	0.0511	-12.16	0.77	
885	374	Shell-Thick	INVSLE	1.2622	-0.0795	-13.28	0.77	
885	374	Shell-Thick	INVSLU	2.7022	-0.1500	-8.98	6.65	
885	374	Shell-Thick	INVSLU	2.0977	0.5913	-8.42	6.65	
885	374	Shell-Thick	INVSLU	4.3919	1.1450	-8.42	4.97	
885	374	Shell-Thick	INVSLU	5.1178	0.3233	-8.98	4.97	
885	374	Shell-Thick	INVSLU	0.6739	-0.4451	-20.96	1.53	
885	374	Shell-Thick	INVSLU	0.4331	-0.2754	-19.03	1.53	
885	374	Shell-Thick	INVSLU	1.4528	0.0690	-19.03	1.04	
885	374	Shell-Thick	INVSLU	1.7040	-0.1073	-20.96	1.04	
886	375	Shell-Thick	INVSLE	7.4559	1.3085	18.85	-7.544E-02	
886	375	Shell-Thick	INVSLE	6.0964	1.4020	17.53	-7.544E-02	
886	375	Shell-Thick	INVSLE	4.0170	0.9160	17.53	0.96	
886	375	Shell-Thick	INVSLE	5.2513	0.9057	18.85	0.96	
886	375	Shell-Thick	INVSLE	3.8344	0.6949	10.15	-0.19	
886	375	Shell-Thick	INVSLE	3.2473	0.7215	9.72	-0.19	
886	375	Shell-Thick	INVSLE	2.0950	0.4505	9.72	0.30	
886	375	Shell-Thick	INVSLE	2.6471	0.4471	10.15	0.30	
886	375	Shell-Thick	INVSLU	11.6555	2.0200	28.94	-0.10	
886	375	Shell-Thick	INVSLU	9.4003	2.1911	26.58	-0.10	
886	375	Shell-Thick	INVSLU	6.2459	1.4558	26.58	1.74	
886	375	Shell-Thick	INVSLU	8.2712	1.4376	28.94	1.74	
886	375	Shell-Thick	INVSLU	5.1764	0.9381	13.70	-0.33	
886	375	Shell-Thick	INVSLU	4.3839	0.9740	13.12	-0.33	
886	375	Shell-Thick	INVSLU	2.8282	0.6082	13.12	0.40	
886	375	Shell-Thick	INVSLU	3.5736	0.6036	13.70	0.40	
887	376	Shell-Thick	INVSLE	5.6289	0.8928	16.61	0.87	
887	376	Shell-Thick	INVSLE	4.6128	1.1237	15.21	0.87	
887	376	Shell-Thick	INVSLE	2.7864	0.6690	15.21	2.10	
887	376	Shell-Thick	INVSLE	3.7072	0.5013	16.61	2.10	
887	376	Shell-Thick	INVSLE	2.7533	0.4437	8.82	0.27	
887	376	Shell-Thick	INVSLE	2.3115	0.5185	8.30	0.27	
887	376	Shell-Thick	INVSLE	1.3148	0.2424	8.30	0.73	
887	376	Shell-Thick	INVSLE	1.7342	0.1823	8.82	0.73	
887	376	Shell-Thick	INVSLU	8.9636	1.4135	25.65	1.56	
887	376	Shell-Thick	INVSLU	7.2814	1.8254	23.23	1.56	
887	376	Shell-Thick	INVSLU	4.4930	1.1637	23.23	3.68	
887	376	Shell-Thick	INVSLU	5.9953	0.8712	25.65	3.68	
887	376	Shell-Thick	INVSLU	3.7169	0.5990	11.91	0.37	
887	376	Shell-Thick	INVSLU	3.1205	0.7000	11.20	0.37	
887	376	Shell-Thick	INVSLU	1.7749	0.3273	11.20	0.99	
887	376	Shell-Thick	INVSLU	2.3411	0.2461	11.91	0.99	
888	377	Shell-Thick	INVSLE	4.1387	0.5022	14.63	2.00	
888	377	Shell-Thick	INVSLE	3.4152	0.8802	13.20	2.00	
888	377	Shell-Thick	INVSLE	1.8130	0.4994	13.20	3.25	
888	377	Shell-Thick	INVSLE	2.4630	0.1701	14.63	3.25	
888	377	Shell-Thick	INVSLE	1.9085	0.1916	7.66	0.70	
888	377	Shell-Thick	INVSLE	1.5971	0.3245	7.08	0.70	

888	377	Shell-Thick	INVSLE	0.7356	0.0728	7.08	1.21
888	377	Shell-Thick	INVSLE	1.0340	-0.0516	7.66	1.21
888	377	Shell-Thick	INVSLU	6.7250	0.8624	22.71	3.51
888	377	Shell-Thick	INVSLU	5.5235	1.5246	20.30	3.51
888	377	Shell-Thick	INVSLU	3.0623	0.9941	20.30	5.63
888	377	Shell-Thick	INVSLU	4.1200	0.4272	22.71	5.63
888	377	Shell-Thick	INVSLU	2.5765	0.2587	10.34	0.95
888	377	Shell-Thick	INVSLU	2.1561	0.4380	9.56	0.95
888	377	Shell-Thick	INVSLU	0.9931	0.0982	9.56	1.63
888	377	Shell-Thick	INVSLU	1.3959	-0.0697	10.34	1.63
889	378	Shell-Thick	INVSLE	2.9112	0.1804	12.88	3.17
889	378	Shell-Thick	INVSLE	2.4498	0.7060	11.48	3.17
889	378	Shell-Thick	INVSLE	1.0411	0.3829	11.48	4.40
889	378	Shell-Thick	INVSLE	1.4514	-0.1092	12.88	4.40
889	378	Shell-Thick	INVSLE	1.2462	-0.0342	6.65	1.18
889	378	Shell-Thick	INVSLE	1.0520	0.1610	6.06	1.18
889	378	Shell-Thick	INVSLE	0.3059	-0.0647	6.06	1.70
889	378	Shell-Thick	INVSLE	0.4960	-0.2574	6.65	1.70
889	378	Shell-Thick	INVSLU	4.8420	0.4293	20.10	5.47
889	378	Shell-Thick	INVSLU	4.0706	1.3380	17.76	5.47
889	378	Shell-Thick	INVSLU	1.8935	0.9018	17.76	7.53
889	378	Shell-Thick	INVSLU	2.5593	0.0627	20.10	7.53
889	378	Shell-Thick	INVSLU	1.6824	-0.0461	8.98	1.60
889	378	Shell-Thick	INVSLU	1.4203	0.2174	8.17	1.60
889	378	Shell-Thick	INVSLU	0.4130	-0.0873	8.17	2.30
889	378	Shell-Thick	INVSLU	0.6697	-0.3475	8.98	2.30
890	379	Shell-Thick	INVSLE	1.9106	-0.0908	11.33	4.32
890	379	Shell-Thick	INVSLE	1.6643	0.5809	9.99	4.32
890	379	Shell-Thick	INVSLE	0.4265	0.3328	9.99	5.50
890	379	Shell-Thick	INVSLE	0.6372	-0.3157	11.33	5.50
890	379	Shell-Thick	INVSLE	0.7304	-0.2343	5.77	1.68
890	379	Shell-Thick	INVSLE	0.6346	0.0249	5.19	1.68
890	379	Shell-Thick	INVSLE	-0.0121	-0.1633	5.19	2.19
890	379	Shell-Thick	INVSLE	0.0859	-0.4242	5.77	2.19
890	379	Shell-Thick	INVSLU	3.2792	0.0757	17.78	7.39
890	379	Shell-Thick	INVSLU	2.8585	1.2258	15.56	7.39
890	379	Shell-Thick	INVSLU	0.9351	0.9081	15.56	9.33
890	379	Shell-Thick	INVSLU	1.2765	-0.1899	17.78	9.33
890	379	Shell-Thick	INVSLU	0.9860	-0.3164	7.79	2.27
890	379	Shell-Thick	INVSLU	0.8566	0.0336	7.00	2.27
890	379	Shell-Thick	INVSLU	-0.0163	-0.2204	7.00	2.96
890	379	Shell-Thick	INVSLU	0.1160	-0.5727	7.79	2.96
891	380	Shell-Thick	INVSLE	1.0834	-0.2908	9.97	5.43
891	380	Shell-Thick	INVSLE	1.0402	0.5199	8.70	5.43
891	380	Shell-Thick	INVSLE	-0.0498	0.3253	8.70	6.54
891	380	Shell-Thick	INVSLE	-0.0258	-0.4732	9.97	6.54
891	380	Shell-Thick	INVSLE	0.3254	-0.3975	5.02	2.17
891	380	Shell-Thick	INVSLE	0.3189	-0.0758	4.46	2.17
891	380	Shell-Thick	INVSLE	-0.2429	-0.2324	4.46	2.66
891	380	Shell-Thick	INVSLE	-0.2282	-0.5599	5.02	2.66
891	380	Shell-Thick	INVSLU	1.9623	-0.1670	15.71	9.21
891	380	Shell-Thick	INVSLU	1.8767	1.2107	13.63	9.21
891	380	Shell-Thick	INVSLU	0.1741	0.9719	13.63	11.03
891	380	Shell-Thick	INVSLU	0.2088	-0.3727	15.71	11.03
891	380	Shell-Thick	INVSLU	0.4394	-0.5367	6.77	2.93
891	380	Shell-Thick	INVSLU	0.4306	-0.1024	6.01	2.93
891	380	Shell-Thick	INVSLU	-0.3279	-0.3137	6.01	3.59
891	380	Shell-Thick	INVSLU	-0.3080	-0.7558	6.77	3.59
892	381	Shell-Thick	INVSLE	0.4181	-0.4423	8.76	6.48
892	381	Shell-Thick	INVSLE	0.5345	0.5000	7.59	6.48
892	381	Shell-Thick	INVSLE	-0.4103	0.3647	7.59	7.50
892	381	Shell-Thick	INVSLE	-0.4631	-0.5724	8.76	7.50
892	381	Shell-Thick	INVSLE	0.0130	-0.5308	4.36	2.64
892	381	Shell-Thick	INVSLE	0.0777	-0.1491	3.83	2.64
892	381	Shell-Thick	INVSLE	-0.4236	-0.2713	3.83	3.10
892	381	Shell-Thick	INVSLE	-0.5487	-0.6612	4.36	3.10
892	381	Shell-Thick	INVSLU	0.8879	-0.3397	13.86	10.93
892	381	Shell-Thick	INVSLU	1.0642	1.2528	11.94	10.93
892	381	Shell-Thick	INVSLU	-0.4389	1.1022	11.94	12.61
892	381	Shell-Thick	INVSLU	-0.6252	-0.4693	13.86	12.61
892	381	Shell-Thick	INVSLU	0.0176	-0.7166	5.88	3.56
892	381	Shell-Thick	INVSLU	0.1048	-0.2013	5.17	3.56
892	381	Shell-Thick	INVSLU	-0.5738	-0.3663	5.17	4.18
892	381	Shell-Thick	INVSLU	-0.7535	-0.8926	5.88	4.18
893	382	Shell-Thick	INVSLE	-0.1306	-0.5374	7.68	7.45
893	382	Shell-Thick	INVSLE	0.1409	0.5263	6.61	7.45
893	382	Shell-Thick	INVSLE	-0.5263	0.4331	6.61	8.39
893	382	Shell-Thick	INVSLE	-0.6412	-0.6327	7.68	8.39

893	382 Shell-Thick	INVSLE	-0.2323	-0.6312	3.78	3.08
893	382 Shell-Thick	INVSLE	-0.1021	-0.1935	3.30	3.08
893	382 Shell-Thick	INVSLE	-0.7013	-0.2883	3.30	3.50
893	382 Shell-Thick	INVSLE	-0.9705	-0.7364	3.78	3.50
893	382 Shell-Thick	INVSLU	-0.0125	-0.4287	12.20	12.51
893	382 Shell-Thick	INVSLU	0.4228	1.3610	10.45	12.51
893	382 Shell-Thick	INVSLU	-0.7105	1.2695	10.45	14.05
893	382 Shell-Thick	INVSLU	-0.8656	-0.5124	12.20	14.05
893	382 Shell-Thick	INVSLU	-0.3137	-0.8521	5.10	4.16
893	382 Shell-Thick	INVSLU	-0.1378	-0.2613	4.45	4.16
893	382 Shell-Thick	INVSLU	-0.9729	-0.3891	4.45	4.73
893	382 Shell-Thick	INVSLU	-1.3596	-0.9941	5.10	4.73
894	383 Shell-Thick	INVSLE	-0.4195	-0.5947	6.71	8.34
894	383 Shell-Thick	INVSLE	-0.1778	0.5809	5.74	8.34
894	383 Shell-Thick	INVSLE	-0.6076	0.5291	5.74	9.19
894	383 Shell-Thick	INVSLE	-0.7703	-0.6526	6.71	9.19
894	383 Shell-Thick	INVSLE	-0.5645	-0.7062	3.27	3.49
894	383 Shell-Thick	INVSLE	-0.2399	-0.2168	2.83	3.49
894	383 Shell-Thick	INVSLE	-0.9147	-0.2853	2.83	3.87
894	383 Shell-Thick	INVSLE	-1.2931	-0.7862	3.27	3.87
894	383 Shell-Thick	INVSLU	-0.5664	-0.4653	10.69	13.97
894	383 Shell-Thick	INVSLU	-0.1059	1.5060	9.11	13.97
894	383 Shell-Thick	INVSLU	-0.8202	1.4734	9.11	15.35
894	383 Shell-Thick	INVSLU	-1.0399	-0.4976	10.69	15.35
894	383 Shell-Thick	INVSLU	-0.7838	-0.9534	4.41	4.71
894	383 Shell-Thick	INVSLU	-0.3238	-0.2927	3.82	4.71
894	383 Shell-Thick	INVSLU	-1.2810	-0.3851	3.82	5.23
894	383 Shell-Thick	INVSLU	-1.8993	-1.0614	4.41	5.23
895	384 Shell-Thick	INVSLE	-0.5669	-0.6135	5.83	9.15
895	384 Shell-Thick	INVSLE	-0.3413	0.6630	4.96	9.15
895	384 Shell-Thick	INVSLE	-0.6590	0.6398	4.96	9.91
895	384 Shell-Thick	INVSLE	-0.8664	-0.6469	5.83	9.91
895	384 Shell-Thick	INVSLE	-0.9214	-0.7570	2.82	3.86
895	384 Shell-Thick	INVSLE	-0.4213	-0.2206	2.42	3.86
895	384 Shell-Thick	INVSLE	-1.0640	-0.2689	2.42	4.21
895	384 Shell-Thick	INVSLE	-1.5493	-0.8177	2.82	4.21
895	384 Shell-Thick	INVSLU	-0.7653	-0.4471	9.32	15.29
895	384 Shell-Thick	INVSLU	-0.4607	1.6876	7.90	15.29
895	384 Shell-Thick	INVSLU	-0.8897	1.6937	7.90	16.52
895	384 Shell-Thick	INVSLU	-1.1696	-0.4488	9.32	16.52
895	384 Shell-Thick	INVSLU	-1.3325	-1.0219	3.80	5.22
895	384 Shell-Thick	INVSLU	-0.5808	-0.2978	3.27	5.22
895	384 Shell-Thick	INVSLU	-1.5335	-0.3630	3.27	5.68
895	384 Shell-Thick	INVSLU	-2.3413	-1.1039	3.80	5.68
896	385 Shell-Thick	INVSLE	-0.6782	-0.6077	5.02	9.88
896	385 Shell-Thick	INVSLE	-0.4198	0.7596	4.26	9.88
896	385 Shell-Thick	INVSLE	-0.6924	0.7609	4.26	10.55
896	385 Shell-Thick	INVSLE	-0.9327	-0.6182	5.02	10.55
896	385 Shell-Thick	INVSLE	-1.1992	-0.7899	2.41	4.20
896	385 Shell-Thick	INVSLE	-0.6195	-0.2112	2.06	4.20
896	385 Shell-Thick	INVSLE	-1.1748	-0.2422	2.06	4.50
896	385 Shell-Thick	INVSLE	-1.7375	-0.8332	2.41	4.50
896	385 Shell-Thick	INVSLU	-0.9155	-0.3963	8.05	16.47
896	385 Shell-Thick	INVSLU	-0.5667	1.8853	6.81	16.47
896	385 Shell-Thick	INVSLU	-0.9348	1.9241	6.81	17.56
896	385 Shell-Thick	INVSLU	-1.2591	-0.3689	8.05	17.56
896	385 Shell-Thick	INVSLU	-1.8035	-1.0664	3.26	5.67
896	385 Shell-Thick	INVSLU	-0.8662	-0.2851	2.79	5.67
896	385 Shell-Thick	INVSLU	-1.7342	-0.3270	2.79	6.08
896	385 Shell-Thick	INVSLU	-2.6707	-1.1249	3.26	6.08
897	386 Shell-Thick	INVSLE	-0.7663	-0.5806	4.29	10.52
897	386 Shell-Thick	INVSLE	-0.4771	0.8665	3.62	10.52
897	386 Shell-Thick	INVSLE	-0.7090	0.8833	3.62	11.10
897	386 Shell-Thick	INVSLE	-0.9804	-0.5772	4.29	11.10
897	386 Shell-Thick	INVSLE	-1.4274	-0.8076	2.04	4.49
897	386 Shell-Thick	INVSLE	-0.7686	-0.1915	1.74	4.49
897	386 Shell-Thick	INVSLE	-1.2440	-0.2100	1.74	4.76
897	386 Shell-Thick	INVSLE	-1.8833	-0.8381	2.04	4.76
897	386 Shell-Thick	INVSLU	-1.0345	-0.3174	6.88	17.51
897	386 Shell-Thick	INVSLU	-0.6441	2.0934	5.80	17.51
897	386 Shell-Thick	INVSLU	-0.9571	2.1512	5.80	18.46
897	386 Shell-Thick	INVSLU	-1.3235	-0.2746	6.88	18.46
897	386 Shell-Thick	INVSLU	-2.1941	-1.0902	2.76	6.07
897	386 Shell-Thick	INVSLU	-1.1066	-0.2586	2.35	6.07
897	386 Shell-Thick	INVSLU	-1.8645	-0.2835	2.35	6.42
897	386 Shell-Thick	INVSLU	-2.9304	-1.1314	2.76	6.42
898	387 Shell-Thick	INVSLE	-0.8324	-0.5420	3.60	11.08
898	387 Shell-Thick	INVSLE	-0.5226	0.9748	3.03	11.08

898	387 Shell-Thick	INVSLE	-0.7167	1.0020	3.03	11.58
898	387 Shell-Thick	INVSLE	-1.0102	-0.5279	3.60	11.58
898	387 Shell-Thick	INVSLE	-1.6025	-0.8149	1.71	4.75
898	387 Shell-Thick	INVSLE	-0.8915	-0.1663	1.45	4.75
898	387 Shell-Thick	INVSLE	-1.2916	-0.1752	1.45	4.98
898	387 Shell-Thick	INVSLE	-1.9836	-0.8349	1.71	4.98
898	387 Shell-Thick	INVSLU	-1.1237	-0.2255	5.79	18.42
898	387 Shell-Thick	INVSLU	-0.7055	2.2981	4.87	18.42
898	387 Shell-Thick	INVSLU	-0.9676	2.3670	4.87	19.23
898	387 Shell-Thick	INVSLU	-1.3638	-0.1719	5.79	19.23
898	387 Shell-Thick	INVSLU	-2.4955	-1.1001	2.31	6.42
898	387 Shell-Thick	INVSLU	-1.3192	-0.2244	1.96	6.42
898	387 Shell-Thick	INVSLU	-1.9583	-0.2365	1.96	6.72
898	387 Shell-Thick	INVSLU	-3.1123	-1.1271	2.31	6.72
899	388 Shell-Thick	INVSLE	-0.8853	-0.4964	2.96	11.56
899	388 Shell-Thick	INVSLE	-0.5561	1.0796	2.49	11.56
899	388 Shell-Thick	INVSLE	-0.7153	1.1111	2.49	11.97
899	388 Shell-Thick	INVSLE	-1.0299	-0.4775	2.96	11.97
899	388 Shell-Thick	INVSLE	-1.7464	-0.8147	1.40	4.97
899	388 Shell-Thick	INVSLE	-0.9832	-0.1383	1.18	4.97
899	388 Shell-Thick	INVSLE	-1.3130	-0.1410	1.18	5.16
899	388 Shell-Thick	INVSLE	-2.0577	-0.8274	1.40	5.16
899	388 Shell-Thick	INVSLU	-1.1952	-0.1273	4.77	19.20
899	388 Shell-Thick	INVSLU	-0.7507	2.4918	4.00	19.20
899	388 Shell-Thick	INVSLU	-0.9656	2.5630	4.00	19.87
899	388 Shell-Thick	INVSLU	-1.3903	-0.0719	4.77	19.87
899	388 Shell-Thick	INVSLU	-2.7449	-1.0999	1.89	6.71
899	388 Shell-Thick	INVSLU	-1.4785	-0.1867	1.60	6.71
899	388 Shell-Thick	INVSLU	-2.0061	-0.1903	1.60	6.97
899	388 Shell-Thick	INVSLU	-3.2495	-1.1169	1.89	6.97
900	389 Shell-Thick	INVSLE	-0.9250	-0.4503	2.35	11.96
900	389 Shell-Thick	INVSLE	-0.5841	1.1748	1.97	11.96
900	389 Shell-Thick	INVSLE	-0.7103	1.2061	1.97	12.29
900	389 Shell-Thick	INVSLE	-1.0389	-0.4299	2.35	12.29
900	389 Shell-Thick	INVSLE	-1.8550	-0.8103	1.11	5.16
900	389 Shell-Thick	INVSLE	-1.0609	-0.1108	0.93	5.16
900	389 Shell-Thick	INVSLE	-1.3233	-0.1097	0.93	5.31
900	389 Shell-Thick	INVSLE	-2.1014	-0.8176	1.11	5.31
900	389 Shell-Thick	INVSLU	-1.2488	-0.0328	3.79	19.85
900	389 Shell-Thick	INVSLU	-0.7885	2.6656	3.17	19.85
900	389 Shell-Thick	INVSLU	-0.9589	2.7320	3.17	20.39
900	389 Shell-Thick	INVSLU	-1.4025	0.0197	3.79	20.39
900	389 Shell-Thick	INVSLU	-2.9335	-1.0939	1.49	6.96
900	389 Shell-Thick	INVSLU	-1.6140	-0.1496	1.26	6.96
900	389 Shell-Thick	INVSLU	-2.0341	-0.1482	1.26	7.17
900	389 Shell-Thick	INVSLU	-3.3334	-1.1038	1.49	7.17
901	390 Shell-Thick	INVSLE	-0.9575	-0.4078	1.77	12.28
901	390 Shell-Thick	INVSLE	-0.6055	1.2561	1.48	12.28
901	390 Shell-Thick	INVSLE	-0.7004	1.2836	1.48	12.53
901	390 Shell-Thick	INVSLE	-1.0426	-0.3894	1.77	12.53
901	390 Shell-Thick	INVSLE	-1.9445	-0.8040	0.83	5.31
901	390 Shell-Thick	INVSLE	-1.1193	-0.0861	0.70	5.31
901	390 Shell-Thick	INVSLE	-1.3171	-0.0834	0.70	5.42
901	390 Shell-Thick	INVSLE	-2.1291	-0.8079	0.83	5.42
901	390 Shell-Thick	INVSLU	-1.2926	0.0517	2.85	20.37
901	390 Shell-Thick	INVSLU	-0.8174	2.8127	2.39	20.37
901	390 Shell-Thick	INVSLU	-0.9455	2.8688	2.39	20.78
901	390 Shell-Thick	INVSLU	-1.4075	0.0960	2.85	20.78
901	390 Shell-Thick	INVSLU	-3.0891	-1.0854	1.12	7.16
901	390 Shell-Thick	INVSLU	-1.7150	-0.1163	0.94	7.16
901	390 Shell-Thick	INVSLU	-2.0323	-0.1126	0.94	7.32
901	390 Shell-Thick	INVSLU	-3.3890	-1.0907	1.12	7.32
902	391 Shell-Thick	INVSLE	-0.9818	-0.3727	1.20	12.53
902	391 Shell-Thick	INVSLE	-0.6250	1.3200	1.01	12.53
902	391 Shell-Thick	INVSLE	-0.6897	1.3406	1.01	12.70
902	391 Shell-Thick	INVSLE	-1.0396	-0.3586	1.20	12.70
902	391 Shell-Thick	INVSLE	-2.0100	-0.7978	0.56	5.42
902	391 Shell-Thick	INVSLE	-1.1710	-0.0663	0.47	5.42
902	391 Shell-Thick	INVSLE	-1.3060	-0.0635	0.47	5.50
902	391 Shell-Thick	INVSLE	-2.1356	-0.7997	0.56	5.50
902	391 Shell-Thick	INVSLU	-1.3255	0.1202	1.95	20.77
902	391 Shell-Thick	INVSLU	-0.8437	2.9276	1.63	20.77
902	391 Shell-Thick	INVSLU	-0.9310	2.9687	1.63	21.05
902	391 Shell-Thick	INVSLU	-1.4034	0.1529	1.95	21.05
902	391 Shell-Thick	INVSLU	-3.2023	-1.0771	0.76	7.32
902	391 Shell-Thick	INVSLU	-1.8041	-0.0895	0.64	7.32
902	391 Shell-Thick	INVSLU	-2.0208	-0.0857	0.64	7.42
902	391 Shell-Thick	INVSLU	-3.4065	-1.0796	0.76	7.42

903	392 Shell-Thick	INVSLE	-1.0023	-0.3480	0.66	12.70
903	392 Shell-Thick	INVSLE	-0.6409	1.3635	0.55	12.70
903	392 Shell-Thick	INVSLE	-0.6762	1.3754	0.55	12.79
903	392 Shell-Thick	INVSLE	-1.0336	-0.3399	0.66	12.79
903	392 Shell-Thick	INVSLE	-2.0634	-0.7933	0.31	5.50
903	392 Shell-Thick	INVSLE	-1.2101	-0.0527	0.26	5.50
903	392 Shell-Thick	INVSLE	-1.2839	-0.0508	0.26	5.54
903	392 Shell-Thick	INVSLE	-2.1316	-0.7941	0.31	5.54
903	392 Shell-Thick	INVSLU	-1.3531	0.1685	1.06	21.04
903	392 Shell-Thick	INVSLU	-0.8653	3.0058	0.89	21.04
903	392 Shell-Thick	INVSLU	-0.9129	3.0292	0.89	21.20
903	392 Shell-Thick	INVSLU	-1.3954	0.1868	1.06	21.20
903	392 Shell-Thick	INVSLU	-3.2938	-1.0710	0.41	7.42
903	392 Shell-Thick	INVSLU	-1.8701	-0.0711	0.35	7.42
903	392 Shell-Thick	INVSLU	-1.9885	-0.0686	0.35	7.48
903	392 Shell-Thick	INVSLU	-3.4048	-1.0720	0.41	7.48
904	393 Shell-Thick	INVSLE	-1.0172	-0.3353	0.12	12.79
904	393 Shell-Thick	INVSLE	-0.6568	1.3848	9.636E-02	12.79
904	393 Shell-Thick	INVSLE	-0.6630	1.3868	9.636E-02	12.80
904	393 Shell-Thick	INVSLE	-1.0227	-0.3342	0.12	12.80
904	393 Shell-Thick	INVSLE	-2.0987	-0.7914	5.396E-02	5.54
904	393 Shell-Thick	INVSLE	-1.2464	-0.0464	4.532E-02	5.54
904	393 Shell-Thick	INVSLE	-1.2595	-0.0461	4.532E-02	5.55
904	393 Shell-Thick	INVSLE	-2.1106	-0.7916	5.396E-02	5.55
904	393 Shell-Thick	INVSLU	-1.3732	0.1935	0.19	21.19
904	393 Shell-Thick	INVSLU	-0.8866	3.0445	0.16	21.19
904	393 Shell-Thick	INVSLU	-0.8951	3.0484	0.16	21.22
904	393 Shell-Thick	INVSLU	-1.3806	0.1962	0.19	21.22
904	393 Shell-Thick	INVSLU	-3.3528	-1.0684	7.285E-02	7.48
904	393 Shell-Thick	INVSLU	-1.9303	-0.0626	6.119E-02	7.48
904	393 Shell-Thick	INVSLU	-1.9513	-0.0622	6.119E-02	7.49
904	393 Shell-Thick	INVSLU	-3.3721	-1.0687	7.285E-02	7.49
905	394 Shell-Thick	INVSLE	-1.0297	-0.3359	-0.20	12.81
905	394 Shell-Thick	INVSLE	-0.6703	1.3829	-0.17	12.81
905	394 Shell-Thick	INVSLE	-0.6476	1.3748	-0.17	12.74
905	394 Shell-Thick	INVSLE	-1.0093	-0.3419	-0.20	12.74
905	394 Shell-Thick	INVSLE	-2.1249	-0.7927	-0.42	5.55
905	394 Shell-Thick	INVSLE	-1.2731	-0.0479	-0.36	5.55
905	394 Shell-Thick	INVSLE	-1.2256	-0.0492	-0.36	5.52
905	394 Shell-Thick	INVSLE	-2.0806	-0.7924	-0.42	5.52
905	394 Shell-Thick	INVSLU	-1.3901	0.1937	-0.27	21.22
905	394 Shell-Thick	INVSLU	-0.9049	3.0421	-0.23	21.22
905	394 Shell-Thick	INVSLU	-0.8743	3.0262	-0.23	21.12
905	394 Shell-Thick	INVSLU	-1.3626	0.1805	-0.27	21.12
905	394 Shell-Thick	INVSLU	-3.3950	-1.0701	-0.69	7.49
905	394 Shell-Thick	INVSLU	-1.9720	-0.0647	-0.57	7.49
905	394 Shell-Thick	INVSLU	-1.8958	-0.0665	-0.57	7.45
905	394 Shell-Thick	INVSLU	-3.3228	-1.0698	-0.69	7.45
906	395 Shell-Thick	INVSLE	-1.0372	-0.3497	-0.45	12.75
906	395 Shell-Thick	INVSLE	-0.6842	1.3575	-0.38	12.75
906	395 Shell-Thick	INVSLE	-0.6323	1.3401	-0.38	12.61
906	395 Shell-Thick	INVSLE	-0.9907	-0.3622	-0.45	12.61
906	395 Shell-Thick	INVSLE	-2.1344	-0.7972	-0.97	5.52
906	395 Shell-Thick	INVSLE	-1.2977	-0.0574	-0.81	5.52
906	395 Shell-Thick	INVSLE	-1.1894	-0.0600	-0.81	5.46
906	395 Shell-Thick	INVSLE	-2.0331	-0.7961	-0.97	5.46
906	395 Shell-Thick	INVSLU	-1.4002	0.1691	-0.61	21.13
906	395 Shell-Thick	INVSLU	-0.9237	2.9981	-0.52	21.13
906	395 Shell-Thick	INVSLU	-0.8536	2.9636	-0.52	20.90
906	395 Shell-Thick	INVSLU	-1.3375	0.1409	-0.61	20.90
906	395 Shell-Thick	INVSLU	-3.4067	-1.0762	-1.57	7.45
906	395 Shell-Thick	INVSLU	-2.0092	-0.0775	-1.31	7.45
906	395 Shell-Thick	INVSLU	-1.8353	-0.0810	-1.31	7.37
906	395 Shell-Thick	INVSLU	-3.2420	-1.0748	-1.57	7.37
907	396 Shell-Thick	INVSLE	-1.0420	-0.3762	-0.71	12.62
907	396 Shell-Thick	INVSLE	-0.6956	1.3093	-0.60	12.62
907	396 Shell-Thick	INVSLE	-0.6138	1.2842	-0.60	12.40
907	396 Shell-Thick	INVSLE	-0.9687	-0.3937	-0.71	12.40
907	396 Shell-Thick	INVSLE	-2.1340	-0.8046	-1.52	5.46
907	396 Shell-Thick	INVSLE	-1.3118	-0.0744	-1.28	5.46
907	396 Shell-Thick	INVSLE	-1.1413	-0.0774	-1.28	5.36
907	396 Shell-Thick	INVSLE	-1.9746	-0.8019	-1.52	5.36
907	396 Shell-Thick	INVSLU	-1.4067	0.1206	-0.96	20.91
907	396 Shell-Thick	INVSLU	-0.9390	2.9139	-0.81	20.91
907	396 Shell-Thick	INVSLU	-0.8287	2.8631	-0.81	20.56
907	396 Shell-Thick	INVSLU	-1.3077	0.0796	-0.96	20.56
907	396 Shell-Thick	INVSLU	-3.4002	-1.0862	-2.46	7.37
907	396 Shell-Thick	INVSLU	-2.0265	-0.1005	-2.06	7.37

907	396 Shell-Thick	INVSLU	-1.7530	-0.1045	-2.06	7.24
907	396 Shell-Thick	INVSLU	-3.1411	-1.0825	-2.46	7.24
908	397 Shell-Thick	INVSLE	-1.0406	-0.4132	-0.99	12.41
908	397 Shell-Thick	INVSLE	-0.7065	1.2398	-0.83	12.41
908	397 Shell-Thick	INVSLE	-0.5940	1.2095	-0.83	12.11
908	397 Shell-Thick	INVSLE	-0.9391	-0.4340	-0.99	12.11
908	397 Shell-Thick	INVSLE	-2.1135	-0.8139	-2.10	5.36
908	397 Shell-Thick	INVSLE	-1.3219	-0.0983	-1.76	5.36
908	397 Shell-Thick	INVSLE	-1.0879	-0.1004	-1.76	5.23
908	397 Shell-Thick	INVSLE	-1.8935	-0.8085	-2.10	5.23
908	397 Shell-Thick	INVSLU	-1.4049	0.0514	-1.33	20.58
908	397 Shell-Thick	INVSLU	-0.9537	2.7915	-1.12	20.58
908	397 Shell-Thick	INVSLU	-0.8019	2.7284	-1.12	20.09
908	397 Shell-Thick	INVSLU	-1.2678	3.687E-04	-1.33	20.09
908	397 Shell-Thick	INVSLU	-3.3576	-1.0988	-3.39	7.24
908	397 Shell-Thick	INVSLU	-2.0356	-0.1327	-2.83	7.24
908	397 Shell-Thick	INVSLU	-1.6606	-0.1355	-2.83	7.06
908	397 Shell-Thick	INVSLU	-3.0003	-1.0915	-3.39	7.06
909	398 Shell-Thick	INVSLE	-1.0346	-0.4588	-1.27	12.12
909	398 Shell-Thick	INVSLE	-0.7130	1.1515	-1.07	12.12
909	398 Shell-Thick	INVSLE	-0.5683	1.1195	-1.07	11.74
909	398 Shell-Thick	INVSLE	-0.9034	-0.4793	-1.27	11.74
909	398 Shell-Thick	INVSLE	-2.0786	-0.8240	-2.69	5.23
909	398 Shell-Thick	INVSLE	-1.3168	-0.1278	-2.26	5.23
909	398 Shell-Thick	INVSLE	-1.0166	-0.1269	-2.26	5.06
909	398 Shell-Thick	INVSLE	-1.7953	-0.8140	-2.69	5.06
909	398 Shell-Thick	INVSLU	-1.3967	-0.0353	-1.71	20.11
909	398 Shell-Thick	INVSLU	-0.9625	2.6350	-1.45	20.11
909	398 Shell-Thick	INVSLU	-0.7672	2.5648	-1.45	19.50
909	398 Shell-Thick	INVSLU	-1.2195	-0.0912	-1.71	19.50
909	398 Shell-Thick	INVSLU	-3.2892	-1.1124	-4.34	7.06
909	398 Shell-Thick	INVSLU	-2.0169	-0.1725	-3.64	7.06
909	398 Shell-Thick	INVSLU	-1.5364	-0.1713	-3.64	6.83
909	398 Shell-Thick	INVSLU	-2.8297	-1.0989	-4.34	6.83
910	399 Shell-Thick	INVSLE	-1.0189	-0.5087	-1.57	11.76
910	399 Shell-Thick	INVSLE	-0.7167	1.0477	-1.33	11.76
910	399 Shell-Thick	INVSLE	-0.5381	1.0179	-1.33	11.30
910	399 Shell-Thick	INVSLE	-0.8555	-0.5262	-1.57	11.30
910	399 Shell-Thick	INVSLE	-2.0154	-0.8327	-3.32	5.06
910	399 Shell-Thick	INVSLE	-1.3023	-0.1610	-2.79	5.06
910	399 Shell-Thick	INVSLE	-0.9333	-0.1550	-2.79	4.85
910	399 Shell-Thick	INVSLE	-1.6643	-0.8164	-3.32	4.85
910	399 Shell-Thick	INVSLU	-1.3755	-0.1329	-2.12	19.52
910	399 Shell-Thick	INVSLU	-0.9676	2.4493	-1.80	19.52
910	399 Shell-Thick	INVSLU	-0.7264	2.3781	-1.80	18.78
910	399 Shell-Thick	INVSLU	-1.1549	-0.1896	-2.12	18.78
910	399 Shell-Thick	INVSLU	-3.1710	-1.1242	-5.35	6.83
910	399 Shell-Thick	INVSLU	-1.9813	-0.2173	-4.49	6.83
910	399 Shell-Thick	INVSLU	-1.3916	-0.2093	-4.49	6.55
910	399 Shell-Thick	INVSLU	-2.6023	-1.1022	-5.35	6.55
911	400 Shell-Thick	INVSLE	-0.9943	-0.5596	-1.90	11.32
911	400 Shell-Thick	INVSLE	-0.7123	0.9323	-1.61	11.32
911	400 Shell-Thick	INVSLE	-0.4971	0.9107	-1.61	10.78
911	400 Shell-Thick	INVSLE	-0.7960	-0.5683	-1.90	10.78
911	400 Shell-Thick	INVSLE	-1.9288	-0.8382	-3.99	4.86
911	400 Shell-Thick	INVSLE	-1.2637	-0.1958	-3.36	4.86
911	400 Shell-Thick	INVSLE	-0.8215	-0.1816	-3.36	4.61
911	400 Shell-Thick	INVSLE	-1.5054	-0.8125	-3.99	4.61
911	400 Shell-Thick	INVSLU	-1.3423	-0.2364	-2.56	18.81
911	400 Shell-Thick	INVSLU	-0.9616	2.2405	-2.18	18.81
911	400 Shell-Thick	INVSLU	-0.6711	2.1773	-2.18	17.92
911	400 Shell-Thick	INVSLU	-1.0747	-0.2851	-2.56	17.92
911	400 Shell-Thick	INVSLU	-3.0124	-1.1316	-6.41	6.56
911	400 Shell-Thick	INVSLU	-1.9032	-0.2644	-5.39	6.56
911	400 Shell-Thick	INVSLU	-1.1976	-0.2452	-5.39	6.22
911	400 Shell-Thick	INVSLU	-2.3279	-1.0969	-6.41	6.22
912	401 Shell-Thick	INVSLE	-0.9536	-0.6044	-2.25	10.80
912	401 Shell-Thick	INVSLE	-0.7004	0.8110	-1.92	10.80
912	401 Shell-Thick	INVSLE	-0.4460	0.8021	-1.92	10.17
912	401 Shell-Thick	INVSLE	-0.7166	-0.6016	-2.25	10.17
912	401 Shell-Thick	INVSLE	-1.7998	-0.8369	-4.70	4.62
912	401 Shell-Thick	INVSLE	-1.2063	-0.2294	-3.98	4.62
912	401 Shell-Thick	INVSLE	-0.6866	-0.2041	-3.98	4.33
912	401 Shell-Thick	INVSLE	-1.2971	-0.7997	-4.70	4.33
912	401 Shell-Thick	INVSLU	-1.2873	-0.3349	-3.04	17.97
912	401 Shell-Thick	INVSLU	-0.9456	2.0174	-2.59	17.97
912	401 Shell-Thick	INVSLU	-0.6021	1.9689	-2.59	16.94
912	401 Shell-Thick	INVSLU	-0.9675	-0.3718	-3.04	16.94

912	401 Shell-Thick	INVSLU	-2.7812	-1.1298	-7.54	6.23
912	401 Shell-Thick	INVSLU	-1.7929	-0.3096	-6.37	6.23
912	401 Shell-Thick	INVSLU	-0.9657	-0.2755	-6.37	5.85
912	401 Shell-Thick	INVSLU	-1.9703	-1.0796	-7.54	5.85
913	402 Shell-Thick	INVSLE	-0.8963	-0.6398	-2.64	10.20
913	402 Shell-Thick	INVSLE	-0.6736	0.6884	-2.26	10.20
913	402 Shell-Thick	INVSLE	-0.3759	0.7013	-2.26	9.48
913	402 Shell-Thick	INVSLE	-0.6166	-0.6163	-2.64	9.48
913	402 Shell-Thick	INVSLE	-1.6327	-0.8264	-5.47	4.34
913	402 Shell-Thick	INVSLE	-1.1106	-0.2588	-4.65	4.34
913	402 Shell-Thick	INVSLE	-0.5068	-0.2177	-4.65	4.01
913	402 Shell-Thick	INVSLE	-1.0440	-0.7732	-5.47	4.01
913	402 Shell-Thick	INVSLU	-1.2101	-0.4233	-3.56	16.99
913	402 Shell-Thick	INVSLU	-0.9093	1.7868	-3.06	16.99
913	402 Shell-Thick	INVSLU	-0.5075	1.7671	-3.06	15.82
913	402 Shell-Thick	INVSLU	-0.8324	-0.4343	-3.56	15.82
913	402 Shell-Thick	INVSLU	-2.4866	-1.1157	-8.76	5.86
913	402 Shell-Thick	INVSLU	-1.6175	-0.3493	-7.42	5.86
913	402 Shell-Thick	INVSLU	-0.7038	-0.2939	-7.42	5.42
913	402 Shell-Thick	INVSLU	-1.5396	-1.0438	-8.76	5.42
914	403 Shell-Thick	INVSLE	-0.8122	-0.6549	-3.07	9.51
914	403 Shell-Thick	INVSLE	-0.6309	0.5734	-2.65	9.51
914	403 Shell-Thick	INVSLE	-0.2857	0.6118	-2.65	8.71
914	403 Shell-Thick	INVSLE	-0.4839	-0.6097	-3.07	8.71
914	403 Shell-Thick	INVSLE	-1.4024	-0.8016	-6.32	4.02
914	403 Shell-Thick	INVSLE	-0.9807	-0.2794	-5.39	4.02
914	403 Shell-Thick	INVSLE	-0.2863	-0.2200	-5.39	3.66
914	403 Shell-Thick	INVSLE	-0.7175	-0.7306	-6.32	3.66
914	403 Shell-Thick	INVSLU	-1.0964	-0.4847	-4.14	15.88
914	403 Shell-Thick	INVSLU	-0.8517	1.5624	-3.58	15.88
914	403 Shell-Thick	INVSLU	-0.2869	1.5763	-3.58	14.56
914	403 Shell-Thick	INVSLU	-0.6533	-0.4694	-4.14	14.56
914	403 Shell-Thick	INVSLU	-2.0868	-1.0822	-10.08	5.43
914	403 Shell-Thick	INVSLU	-1.3863	-0.3772	-8.58	5.43
914	403 Shell-Thick	INVSLU	-0.3865	-0.2970	-8.58	4.94
914	403 Shell-Thick	INVSLU	-1.0036	-0.9864	-10.08	4.94
915	404 Shell-Thick	INVSLE	-0.6985	-0.6477	-3.55	8.75
915	404 Shell-Thick	INVSLE	-0.5617	0.4699	-3.09	8.75
915	404 Shell-Thick	INVSLE	0.0034	0.5468	-3.09	7.85
915	404 Shell-Thick	INVSLE	-0.3154	-0.5675	-3.55	7.85
915	404 Shell-Thick	INVSLE	-1.1114	-0.7602	-7.25	3.67
915	404 Shell-Thick	INVSLE	-0.7917	-0.2886	-6.22	3.67
915	404 Shell-Thick	INVSLE	-0.1629	-0.2044	-6.22	3.26
915	404 Shell-Thick	INVSLE	-0.3205	-0.6653	-7.25	3.26
915	404 Shell-Thick	INVSLU	-0.9430	-0.5172	-4.79	14.64
915	404 Shell-Thick	INVSLU	-0.7583	1.3493	-4.17	14.64
915	404 Shell-Thick	INVSLU	0.1963	1.4178	-4.17	13.17
915	404 Shell-Thick	INVSLU	-0.3264	-0.4540	-4.79	13.17
915	404 Shell-Thick	INVSLU	-1.5902	-1.0263	-11.53	4.96
915	404 Shell-Thick	INVSLU	-1.1033	-0.3895	-9.85	4.96
915	404 Shell-Thick	INVSLU	-0.2200	-0.2760	-9.85	4.41
915	404 Shell-Thick	INVSLU	-0.4334	-0.8982	-11.53	4.41
916	405 Shell-Thick	INVSLE	-0.5405	-0.6029	-4.10	7.90
916	405 Shell-Thick	INVSLE	-0.4619	0.3910	-3.59	7.90
916	405 Shell-Thick	INVSLE	0.3610	0.5066	-3.59	6.91
916	405 Shell-Thick	INVSLE	0.1831	-0.4908	-4.10	6.91
916	405 Shell-Thick	INVSLE	-0.7282	-0.6950	-8.28	3.28
916	405 Shell-Thick	INVSLE	-0.5444	-0.2795	-7.15	3.28
916	405 Shell-Thick	INVSLE	-0.0029	-0.1695	-7.15	2.84
916	405 Shell-Thick	INVSLE	-0.0941	-0.5764	-8.28	2.84
916	405 Shell-Thick	INVSLU	-0.7297	-0.4959	-5.53	13.25
916	405 Shell-Thick	INVSLU	-0.6235	1.1686	-4.85	13.25
916	405 Shell-Thick	INVSLU	0.7830	1.2906	-4.85	11.64
916	405 Shell-Thick	INVSLU	0.5046	-0.3915	-5.53	11.64
916	405 Shell-Thick	INVSLU	-1.0113	-0.9383	-13.12	4.43
916	405 Shell-Thick	INVSLU	-0.7473	-0.3773	-11.28	4.43
916	405 Shell-Thick	INVSLU	-0.0039	-0.2288	-11.28	3.83
916	405 Shell-Thick	INVSLU	-0.1271	-0.7781	-13.12	3.83
917	406 Shell-Thick	INVSLE	-0.2516	-0.5226	-4.72	6.97
917	406 Shell-Thick	INVSLE	-0.2086	0.3375	-4.17	6.97
917	406 Shell-Thick	INVSLE	0.8220	0.5097	-4.17	5.90
917	406 Shell-Thick	INVSLE	0.7945	-0.3601	-4.72	5.90
917	406 Shell-Thick	INVSLE	-0.3312	-0.6055	-9.43	2.85
917	406 Shell-Thick	INVSLE	-0.3160	-0.2504	-8.20	2.85
917	406 Shell-Thick	INVSLE	0.2124	-0.1071	-8.20	2.38
917	406 Shell-Thick	INVSLE	0.1878	-0.4556	-9.43	2.38
917	406 Shell-Thick	INVSLU	-0.1593	-0.4264	-6.37	11.74
917	406 Shell-Thick	INVSLU	-0.0842	1.0193	-5.64	11.74

917	406	Shell-Thick	INVSLU	1.5288	1.2251	-5.64	9.98	
917	406	Shell-Thick	INVSLU	1.4981	-0.2493	-6.37	9.98	
917	406	Shell-Thick	INVSLU	-0.4472	-0.8174	-14.89	3.85	
917	406	Shell-Thick	INVSLU	-0.4266	-0.3381	-12.88	3.85	
917	406	Shell-Thick	INVSLU	0.2868	-0.1446	-12.88	3.21	
917	406	Shell-Thick	INVSLU	0.2535	-0.6151	-14.89	3.21	
918	407	Shell-Thick	INVSLE	0.3552	-0.3863	-5.43	5.96	
918	407	Shell-Thick	INVSLE	0.2217	0.3280	-4.86	5.96	
918	407	Shell-Thick	INVSLE	1.3920	0.5508	-4.86	4.81	
918	407	Shell-Thick	INVSLE	1.5564	-0.1837	-5.43	4.81	
918	407	Shell-Thick	INVSLE	-0.0503	-0.4828	-10.72	2.40	
918	407	Shell-Thick	INVSLE	-0.1134	-0.1928	-9.41	2.40	
918	407	Shell-Thick	INVSLE	0.4945	-0.0186	-9.41	1.89	
918	407	Shell-Thick	INVSLE	0.5537	-0.3058	-10.72	1.89	
918	407	Shell-Thick	INVSLU	0.8256	-0.2745	-7.33	10.09	
918	407	Shell-Thick	INVSLU	0.6104	0.9320	-6.56	10.09	
918	407	Shell-Thick	INVSLU	2.4329	1.2111	-6.56	8.20	
918	407	Shell-Thick	INVSLU	2.7192	-0.0421	-7.33	8.20	
918	407	Shell-Thick	INVSLU	-0.0680	-0.6517	-16.86	3.24	
918	407	Shell-Thick	INVSLU	-0.1531	-0.2602	-14.69	3.24	
918	407	Shell-Thick	INVSLU	0.6675	-0.0252	-14.69	2.56	
918	407	Shell-Thick	INVSLU	0.7475	-0.4128	-16.86	2.56	
919	408	Shell-Thick	INVSLE	1.1028	-0.2036	-6.26	4.89	
919	408	Shell-Thick	INVSLE	0.7796	0.3575	-5.66	4.89	
919	408	Shell-Thick	INVSLE	2.1111	0.6535	-5.66	3.68	
919	408	Shell-Thick	INVSLE	2.4797	0.0626	-6.26	3.68	
919	408	Shell-Thick	INVSLE	0.3175	-0.3298	-12.19	1.92	
919	408	Shell-Thick	INVSLE	0.1672	-0.1073	-10.81	1.92	
919	408	Shell-Thick	INVSLE	0.8681	0.1049	-10.81	1.40	
919	408	Shell-Thick	INVSLE	1.0204	-0.1186	-12.19	1.40	
919	408	Shell-Thick	INVSLU	2.0134	-0.0573	-8.45	8.33	
919	408	Shell-Thick	INVSLU	1.4899	0.8965	-7.65	8.33	
919	408	Shell-Thick	INVSLU	3.5525	1.2897	-7.65	6.32	
919	408	Shell-Thick	INVSLU	4.1720	0.2728	-8.45	6.32	
919	408	Shell-Thick	INVSLU	0.4287	-0.4453	-19.07	2.59	
919	408	Shell-Thick	INVSLU	0.2257	-0.1449	-16.77	2.59	
919	408	Shell-Thick	INVSLU	1.1720	0.1416	-16.77	1.89	
919	408	Shell-Thick	INVSLU	1.3775	-0.1601	-19.07	1.89	
920	409	Shell-Thick	INVSLE	5.9981	1.0056	17.54	-8.857E-02	
920	409	Shell-Thick	INVSLE	4.6237	1.1187	15.76	-8.857E-02	
920	409	Shell-Thick	INVSLE	2.7169	0.6902	15.76	1.35	
920	409	Shell-Thick	INVSLE	3.9827	0.6490	17.54	1.35	
920	409	Shell-Thick	INVSLE	3.2010	0.5554	9.73	-0.20	
920	409	Shell-Thick	INVSLE	2.5603	0.5968	8.99	-0.20	
920	409	Shell-Thick	INVSLE	1.4730	0.3478	8.99	0.56	
920	409	Shell-Thick	INVSLE	2.0833	0.3265	9.73	0.56	
920	409	Shell-Thick	INVSLU	9.2416	1.5277	26.59	-0.12	
920	409	Shell-Thick	INVSLU	7.0163	1.7239	23.61	-0.12	
920	409	Shell-Thick	INVSLU	4.1594	1.0871	23.61	2.27	
920	409	Shell-Thick	INVSLU	6.1854	1.0230	26.59	2.27	
920	409	Shell-Thick	INVSLU	4.3214	0.7499	13.13	-0.34	
920	409	Shell-Thick	INVSLU	3.4565	0.8057	12.14	-0.34	
920	409	Shell-Thick	INVSLU	1.9886	0.4695	12.14	0.75	
920	409	Shell-Thick	INVSLU	2.8124	0.4407	13.13	0.75	
921	410	Shell-Thick	INVSLE	4.4850	0.6481	15.23	1.24	
921	410	Shell-Thick	INVSLE	3.5083	0.9497	13.41	1.24	
921	410	Shell-Thick	INVSLE	1.8628	0.6082	13.41	2.84	
921	410	Shell-Thick	INVSLE	2.7575	0.3606	15.23	2.84	
921	410	Shell-Thick	INVSLE	2.2507	0.3254	8.31	0.52	
921	410	Shell-Thick	INVSLE	1.8044	0.4486	7.50	0.52	
921	410	Shell-Thick	INVSLE	0.8819	0.2216	7.50	1.23	
921	410	Shell-Thick	INVSLE	1.3104	0.1099	8.31	1.23	
921	410	Shell-Thick	INVSLU	7.0758	1.0224	23.26	2.08	
921	410	Shell-Thick	INVSLU	5.4842	1.5308	20.25	2.08	
921	410	Shell-Thick	INVSLU	3.0003	1.0566	20.25	4.72	
921	410	Shell-Thick	INVSLU	4.4356	0.6513	23.26	4.72	
921	410	Shell-Thick	INVSLU	3.0385	0.4393	11.22	0.70	
921	410	Shell-Thick	INVSLU	2.4360	0.6056	10.13	0.70	
921	410	Shell-Thick	INVSLU	1.1905	0.2992	10.13	1.66	
921	410	Shell-Thick	INVSLU	1.7690	0.1484	11.22	1.66	
922	411	Shell-Thick	INVSLE	3.2671	0.3644	13.24	2.74	
922	411	Shell-Thick	INVSLE	2.6167	0.8571	11.43	2.74	
922	411	Shell-Thick	INVSLE	1.1915	0.5973	11.43	4.32	
922	411	Shell-Thick	INVSLE	1.7863	0.1410	13.24	4.32	
922	411	Shell-Thick	INVSLE	1.5268	0.1179	7.11	1.19	
922	411	Shell-Thick	INVSLE	1.2416	0.3289	6.28	1.19	
922	411	Shell-Thick	INVSLE	0.4566	0.1342	6.28	1.92	
922	411	Shell-Thick	INVSLE	0.7355	-0.0732	7.11	1.92	

922	411 Shell-Thick	INVSLU	5.2852	0.6504	20.35	4.53
922	411 Shell-Thick	INVSLU	4.2114	1.4697	17.42	4.53
922	411 Shell-Thick	INVSLU	2.0438	1.1344	17.42	7.10
922	411 Shell-Thick	INVSLU	3.0048	0.3893	20.35	7.10
922	411 Shell-Thick	INVSLU	2.0611	0.1591	9.60	1.61
922	411 Shell-Thick	INVSLU	1.6761	0.4441	8.47	1.61
922	411 Shell-Thick	INVSLU	0.6163	0.1811	8.47	2.59
922	411 Shell-Thick	INVSLU	0.9929	-0.0988	9.60	2.59
923	412 Shell-Thick	INVSLE	2.2889	0.1499	11.52	4.22
923	412 Shell-Thick	INVSLE	1.9025	0.8311	9.79	4.22
923	412 Shell-Thick	INVSLE	0.6658	0.6651	9.79	5.73
923	412 Shell-Thick	INVSLE	1.0156	0.0075	11.52	5.73
923	412 Shell-Thick	INVSLE	0.9762	-0.0589	6.08	1.88
923	412 Shell-Thick	INVSLE	0.8226	0.2413	5.27	1.88
923	412 Shell-Thick	INVSLE	0.1526	0.0913	5.27	2.59
923	412 Shell-Thick	INVSLE	0.3085	-0.2108	6.08	2.59
923	412 Shell-Thick	INVSLU	3.8110	0.3920	17.82	6.93
923	412 Shell-Thick	INVSLU	3.1548	1.5152	15.03	6.93
923	412 Shell-Thick	INVSLU	1.2609	1.3305	15.03	9.38
923	412 Shell-Thick	INVSLU	1.8356	0.2606	17.82	9.38
923	412 Shell-Thick	INVSLU	1.3179	-0.0795	8.21	2.54
923	412 Shell-Thick	INVSLU	1.1105	0.3257	7.12	2.54
923	412 Shell-Thick	INVSLU	0.2061	0.1233	7.12	3.50
923	412 Shell-Thick	INVSLU	0.4165	-0.2845	8.21	3.50
924	413 Shell-Thick	INVSLE	1.4977	0.0225	10.04	5.65
924	413 Shell-Thick	INVSLE	1.3449	0.8823	8.42	5.65
924	413 Shell-Thick	INVSLE	0.2663	0.7855	8.42	7.06
924	413 Shell-Thick	INVSLE	0.4021	-0.0637	10.04	7.06
924	413 Shell-Thick	INVSLE	0.5572	-0.1917	5.22	2.56
924	413 Shell-Thick	INVSLE	0.5146	0.1944	4.46	2.56
924	413 Shell-Thick	INVSLE	-0.0602	0.0825	4.46	3.23
924	413 Shell-Thick	INVSLE	-0.0075	-0.3107	5.22	3.23
924	413 Shell-Thick	INVSLU	2.5884	0.2708	15.62	9.23
924	413 Shell-Thick	INVSLU	2.3077	1.6801	13.02	9.23
924	413 Shell-Thick	INVSLU	0.6449	1.6008	13.02	11.50
924	413 Shell-Thick	INVSLU	0.8771	0.2228	15.62	11.50
924	413 Shell-Thick	INVSLU	0.7522	-0.2588	7.05	3.46
924	413 Shell-Thick	INVSLU	0.6947	0.2624	6.01	3.46
924	413 Shell-Thick	INVSLU	-0.0813	0.1114	6.01	4.36
924	413 Shell-Thick	INVSLU	-0.0101	-0.4194	7.05	4.36
925	414 Shell-Thick	INVSLE	0.8727	-0.0417	8.75	6.99
925	414 Shell-Thick	INVSLE	0.9081	0.9860	7.27	6.99
925	414 Shell-Thick	INVSLE	-0.0335	0.9595	7.27	8.29
925	414 Shell-Thick	INVSLE	-0.0729	-0.0663	8.75	8.29
925	414 Shell-Thick	INVSLE	0.2426	-0.2877	4.49	3.20
925	414 Shell-Thick	INVSLE	0.2893	0.1794	3.78	3.20
925	414 Shell-Thick	INVSLE	-0.2053	0.1069	3.78	3.82
925	414 Shell-Thick	INVSLE	-0.2366	-0.3708	4.49	3.82
925	414 Shell-Thick	INVSLU	1.6034	0.2436	13.70	11.37
925	414 Shell-Thick	INVSLU	1.6258	1.9213	11.32	11.37
925	414 Shell-Thick	INVSLU	0.1656	1.9481	11.32	13.46
925	414 Shell-Thick	INVSLU	0.1170	0.2868	13.70	13.46
925	414 Shell-Thick	INVSLU	0.3276	-0.3883	6.06	4.33
925	414 Shell-Thick	INVSLU	0.3905	0.2422	5.11	4.33
925	414 Shell-Thick	INVSLU	-0.2771	0.1443	5.11	5.16
925	414 Shell-Thick	INVSLU	-0.3194	-0.5006	6.06	5.16
926	415 Shell-Thick	INVSLE	0.3706	-0.0383	7.64	8.22
926	415 Shell-Thick	INVSLE	0.5815	1.1432	6.29	8.22
926	415 Shell-Thick	INVSLE	-0.2434	1.1665	6.29	9.40
926	415 Shell-Thick	INVSLE	-0.4024	-0.0220	7.64	9.40
926	415 Shell-Thick	INVSLE	0.0047	-0.3452	3.86	3.80
926	415 Shell-Thick	INVSLE	0.1292	0.1965	3.22	3.80
926	415 Shell-Thick	INVSLE	-0.2979	0.1550	3.22	4.36
926	415 Shell-Thick	INVSLE	-0.4447	-0.4004	3.86	4.36
926	415 Shell-Thick	INVSLU	0.7949	0.3176	12.02	13.35
926	415 Shell-Thick	INVSLU	1.1059	2.2410	9.85	13.35
926	415 Shell-Thick	INVSLU	-0.1801	2.3396	9.85	15.25
926	415 Shell-Thick	INVSLU	-0.4938	0.4169	12.02	15.25
926	415 Shell-Thick	INVSLU	0.0064	-0.4660	5.21	5.13
926	415 Shell-Thick	INVSLU	0.1745	0.2652	4.35	5.13
926	415 Shell-Thick	INVSLU	-0.4022	0.2092	4.35	5.89
926	415 Shell-Thick	INVSLU	-0.6067	-0.5406	5.21	5.89
927	416 Shell-Thick	INVSLE	-0.0163	0.0111	6.66	9.35
927	416 Shell-Thick	INVSLE	0.3283	1.3335	5.44	9.35
927	416 Shell-Thick	INVSLE	-0.3555	1.4035	5.44	10.41
927	416 Shell-Thick	INVSLE	-0.5168	0.0688	6.66	10.41
927	416 Shell-Thick	INVSLE	-0.1703	-0.3733	3.33	4.34
927	416 Shell-Thick	INVSLE	0.0135	0.2366	2.75	4.34

927	416	Shell-Thick	INVSLE	-0.3929	0.2235	2.75	4.85
927	416	Shell-Thick	INVSLE	-0.7199	-0.4018	3.33	4.85
927	416	Shell-Thick	INVSLU	0.1623	0.4568	10.52	15.16
927	416	Shell-Thick	INVSLU	0.6933	2.6056	8.56	15.16
927	416	Shell-Thick	INVSLU	-0.4361	2.7718	8.56	16.87
927	416	Shell-Thick	INVSLU	-0.6976	0.6144	10.52	16.87
927	416	Shell-Thick	INVSLU	-0.2298	-0.5040	4.49	5.86
927	416	Shell-Thick	INVSLU	0.0182	0.3194	3.71	5.86
927	416	Shell-Thick	INVSLU	-0.5360	0.3018	3.71	6.54
927	416	Shell-Thick	INVSLU	-1.0024	-0.5424	4.49	6.54
928	417	Shell-Thick	INVSLE	-0.3021	0.1048	5.79	10.37
928	417	Shell-Thick	INVSLE	0.1459	1.5541	4.70	10.37
928	417	Shell-Thick	INVSLE	-0.3848	1.6539	4.70	11.32
928	417	Shell-Thick	INVSLE	-0.5965	0.1871	5.79	11.32
928	417	Shell-Thick	INVSLE	-0.3256	-0.3743	2.86	4.83
928	417	Shell-Thick	INVSLE	-0.0658	0.2970	2.35	4.83
928	417	Shell-Thick	INVSLE	-0.4845	0.3044	2.35	5.28
928	417	Shell-Thick	INVSLE	-0.9306	-0.3836	2.86	5.28
928	417	Shell-Thick	INVSLU	-0.3528	0.6604	9.18	16.79
928	417	Shell-Thick	INVSLU	0.3913	3.0119	7.43	16.79
928	417	Shell-Thick	INVSLU	-0.5194	3.2187	7.43	18.32
928	417	Shell-Thick	INVSLU	-0.8052	0.8488	9.18	18.32
928	417	Shell-Thick	INVSLU	-0.4431	-0.5053	3.86	6.52
928	417	Shell-Thick	INVSLU	-0.0888	0.4009	3.17	6.52
928	417	Shell-Thick	INVSLU	-0.6690	0.4109	3.17	7.13
928	417	Shell-Thick	INVSLU	-1.3181	-0.5179	3.86	7.13
929	418	Shell-Thick	INVSLE	-0.3970	0.2248	5.01	11.28
929	418	Shell-Thick	INVSLE	0.0044	1.7884	4.05	11.28
929	418	Shell-Thick	INVSLE	-0.3974	1.9115	4.05	12.12
929	418	Shell-Thick	INVSLE	-0.6467	0.3282	5.01	12.12
929	418	Shell-Thick	INVSLE	-0.5582	-0.3567	2.45	5.27
929	418	Shell-Thick	INVSLE	-0.1229	0.3697	2.00	5.27
929	418	Shell-Thick	INVSLE	-0.5433	0.3936	2.00	5.66
929	418	Shell-Thick	INVSLE	-1.0771	-0.3497	2.45	5.66
929	418	Shell-Thick	INVSLU	-0.5360	0.8991	7.97	18.26
929	418	Shell-Thick	INVSLU	0.1520	3.4335	6.42	18.26
929	418	Shell-Thick	INVSLU	-0.5365	3.6718	6.42	19.61
929	418	Shell-Thick	INVSLU	-0.8730	1.1144	7.97	19.61
929	418	Shell-Thick	INVSLU	-0.7777	-0.4815	3.31	7.11
929	418	Shell-Thick	INVSLU	-0.1659	0.4991	2.70	7.11
929	418	Shell-Thick	INVSLU	-0.7553	0.5313	2.70	7.65
929	418	Shell-Thick	INVSLU	-1.5762	-0.4722	3.31	7.65
930	419	Shell-Thick	INVSLE	-0.4686	0.3659	4.30	12.09
930	419	Shell-Thick	INVSLE	-0.0933	2.0305	3.46	12.09
930	419	Shell-Thick	INVSLE	-0.3954	2.1643	3.46	12.83
930	419	Shell-Thick	INVSLE	-0.6791	0.4779	4.30	12.83
930	419	Shell-Thick	INVSLE	-0.7441	-0.3241	2.09	5.65
930	419	Shell-Thick	INVSLE	-0.1602	0.4510	1.69	5.65
930	419	Shell-Thick	INVSLE	-0.5667	0.4849	1.69	6.00
930	419	Shell-Thick	INVSLE	-1.1856	-0.3070	2.09	6.00
930	419	Shell-Thick	INVSLU	-0.6327	1.1660	6.87	19.56
930	419	Shell-Thick	INVSLU	-0.0157	3.8621	5.52	19.56
930	419	Shell-Thick	INVSLU	-0.5338	4.1118	5.52	20.75
930	419	Shell-Thick	INVSLU	-0.9168	1.3882	6.87	20.75
930	419	Shell-Thick	INVSLU	-1.0634	-0.4375	2.82	7.63
930	419	Shell-Thick	INVSLU	-0.2162	0.6088	2.29	7.63
930	419	Shell-Thick	INVSLU	-0.7907	0.6546	2.29	8.10
930	419	Shell-Thick	INVSLU	-1.7729	-0.4145	2.82	8.10
931	420	Shell-Thick	INVSLE	-0.5190	0.5144	3.66	12.80
931	420	Shell-Thick	INVSLE	-0.1704	2.2681	2.94	12.80
931	420	Shell-Thick	INVSLE	-0.3869	2.4057	2.94	13.44
931	420	Shell-Thick	INVSLE	-0.6952	0.6305	3.66	13.44
931	420	Shell-Thick	INVSLE	-0.8805	-0.2832	1.76	5.99
931	420	Shell-Thick	INVSLE	-0.1874	0.5347	1.42	5.99
931	420	Shell-Thick	INVSLE	-0.5746	0.5747	1.42	6.29
931	420	Shell-Thick	INVSLE	-1.2531	-0.2590	1.76	6.29
931	420	Shell-Thick	INVSLU	-0.7007	1.4394	5.86	20.70
931	420	Shell-Thick	INVSLU	-0.1507	4.2782	4.69	20.70
931	420	Shell-Thick	INVSLU	-0.5223	4.5289	4.69	21.73
931	420	Shell-Thick	INVSLU	-0.9385	1.6620	5.86	21.73
931	420	Shell-Thick	INVSLU	-1.2996	-0.3823	2.38	8.09
931	420	Shell-Thick	INVSLU	-0.2530	0.7218	1.92	8.09
931	420	Shell-Thick	INVSLU	-0.8039	0.7758	1.92	8.49
931	420	Shell-Thick	INVSLU	-1.9002	-0.3496	2.38	8.49
932	421	Shell-Thick	INVSLE	-0.5576	0.6644	3.07	13.42
932	421	Shell-Thick	INVSLE	-0.2044	2.4949	2.45	13.42
932	421	Shell-Thick	INVSLE	-0.3714	2.6274	2.45	13.96
932	421	Shell-Thick	INVSLE	-0.7030	0.7759	3.07	13.96

932	421	Shell-Thick	INVSLE	-0.9904	-0.2375	1.47	6.28
932	421	Shell-Thick	INVSLE	-0.2217	0.6172	1.18	6.28
932	421	Shell-Thick	INVSLE	-0.5622	0.6589	1.18	6.54
932	421	Shell-Thick	INVSLE	-1.3000	-0.2105	1.47	6.54
932	421	Shell-Thick	INVSLU	-0.7528	1.7103	4.92	21.70
932	421	Shell-Thick	INVSLU	-0.2417	4.6723	3.93	21.70
932	421	Shell-Thick	INVSLU	-0.5014	4.9101	3.93	22.57
932	421	Shell-Thick	INVSLU	-0.9490	1.9197	4.92	22.57
932	421	Shell-Thick	INVSLU	-1.4922	-0.3206	1.98	8.48
932	421	Shell-Thick	INVSLU	-0.3019	0.8332	1.60	8.48
932	421	Shell-Thick	INVSLU	-0.7877	0.8895	1.60	8.83
932	421	Shell-Thick	INVSLU	-1.9923	-0.2842	1.98	8.83
933	422	Shell-Thick	INVSLE	-0.5845	0.8065	2.52	13.95
933	422	Shell-Thick	INVSLE	-0.2180	2.7024	2.01	13.95
933	422	Shell-Thick	INVSLE	-0.3547	2.8238	2.01	14.39
933	422	Shell-Thick	INVSLE	-0.7022	0.9091	2.52	14.39
933	422	Shell-Thick	INVSLE	-1.0694	-0.1916	1.20	6.53
933	422	Shell-Thick	INVSLE	-0.2649	0.6944	0.96	6.53
933	422	Shell-Thick	INVSLE	-0.5450	0.7346	0.96	6.74
933	422	Shell-Thick	INVSLE	-1.3218	-0.1643	1.20	6.74
933	422	Shell-Thick	INVSLU	-0.7891	1.9639	4.04	22.54
933	422	Shell-Thick	INVSLU	-0.2943	5.0308	3.22	22.54
933	422	Shell-Thick	INVSLU	-0.4789	5.2465	3.22	23.27
933	422	Shell-Thick	INVSLU	-0.9480	2.1538	4.04	23.27
933	422	Shell-Thick	INVSLU	-1.6318	-0.2587	1.62	8.82
933	422	Shell-Thick	INVSLU	-0.3646	0.9374	1.30	8.82
933	422	Shell-Thick	INVSLU	-0.7656	0.9917	1.30	9.10
933	422	Shell-Thick	INVSLU	-2.0403	-0.2218	1.62	9.10
934	423	Shell-Thick	INVSLE	-0.6061	0.9353	2.00	14.38
934	423	Shell-Thick	INVSLE	-0.2270	2.8851	1.59	14.38
934	423	Shell-Thick	INVSLE	-0.3355	2.9898	1.59	14.74
934	423	Shell-Thick	INVSLE	-0.6985	1.0235	2.00	14.74
934	423	Shell-Thick	INVSLE	-1.1349	-0.1484	0.95	6.74
934	423	Shell-Thick	INVSLE	-0.2940	0.7634	0.76	6.74
934	423	Shell-Thick	INVSLE	-0.5171	0.7992	0.76	6.91
934	423	Shell-Thick	INVSLE	-1.3337	-0.1235	0.95	6.91
934	423	Shell-Thick	INVSLU	-0.8183	2.1921	3.21	23.25
934	423	Shell-Thick	INVSLU	-0.3065	5.3454	2.55	23.25
934	423	Shell-Thick	INVSLU	-0.4529	5.5300	2.55	23.83
934	423	Shell-Thick	INVSLU	-0.9429	2.3537	3.21	23.83
934	423	Shell-Thick	INVSLU	-1.7481	-0.2004	1.28	9.10
934	423	Shell-Thick	INVSLU	-0.4070	1.0306	1.02	9.10
934	423	Shell-Thick	INVSLU	-0.7278	1.0789	1.02	9.32
934	423	Shell-Thick	INVSLU	-2.0703	-0.1668	1.28	9.32
935	424	Shell-Thick	INVSLE	-0.6216	1.0450	1.50	14.73
935	424	Shell-Thick	INVSLE	-0.2364	3.0376	1.19	14.73
935	424	Shell-Thick	INVSLE	-0.3178	3.1213	1.19	15.00
935	424	Shell-Thick	INVSLE	-0.6905	1.1157	1.50	15.00
935	424	Shell-Thick	INVSLE	-1.1817	-0.1108	0.71	6.90
935	424	Shell-Thick	INVSLE	-0.3226	0.8216	0.57	6.90
935	424	Shell-Thick	INVSLE	-0.4907	0.8509	0.57	7.03
935	424	Shell-Thick	INVSLE	-1.3305	-0.0900	0.71	7.03
935	424	Shell-Thick	INVSLU	-0.8392	2.3853	2.42	23.81
935	424	Shell-Thick	INVSLU	-0.3191	5.6073	1.91	23.81
935	424	Shell-Thick	INVSLU	-0.4290	5.7542	1.91	24.25
935	424	Shell-Thick	INVSLU	-0.9321	2.5139	2.42	24.25
935	424	Shell-Thick	INVSLU	-1.8312	-0.1496	0.96	9.32
935	424	Shell-Thick	INVSLU	-0.4485	1.1092	0.76	9.32
935	424	Shell-Thick	INVSLU	-0.6911	1.1487	0.76	9.49
935	424	Shell-Thick	INVSLU	-2.0726	-0.1216	0.96	9.49
936	425	Shell-Thick	INVSLE	-0.6357	1.1317	1.02	15.00
936	425	Shell-Thick	INVSLE	-0.2443	3.1561	0.81	15.00
936	425	Shell-Thick	INVSLE	-0.2998	3.2156	0.81	15.18
936	425	Shell-Thick	INVSLE	-0.6822	1.1818	1.02	15.18
936	425	Shell-Thick	INVSLE	-1.2228	-0.0806	0.48	7.03
936	425	Shell-Thick	INVSLE	-0.3445	0.8671	0.38	7.03
936	425	Shell-Thick	INVSLE	-0.4594	0.8882	0.38	7.11
936	425	Shell-Thick	INVSLE	-1.3236	-0.0656	0.48	7.11
936	425	Shell-Thick	INVSLU	-0.8582	2.5376	1.65	24.24
936	425	Shell-Thick	INVSLU	-0.3298	5.8104	1.30	24.24
936	425	Shell-Thick	INVSLU	-0.4048	5.9146	1.30	24.54
936	425	Shell-Thick	INVSLU	-0.9210	2.6284	1.65	24.54
936	425	Shell-Thick	INVSLU	-1.9035	-0.1088	0.65	9.49
936	425	Shell-Thick	INVSLU	-0.4801	1.1706	0.52	9.49
936	425	Shell-Thick	INVSLU	-0.6444	1.1991	0.52	9.60
936	425	Shell-Thick	INVSLU	-2.0674	-0.0885	0.65	9.60
937	426	Shell-Thick	INVSLE	-0.6467	1.1922	0.56	15.18
937	426	Shell-Thick	INVSLE	-0.2546	3.2374	0.44	15.18

937	426	Shell-Thick	INVSLE	-0.2848	3.2705	0.44	15.28
937	426	Shell-Thick	INVSLE	-0.6719	1.2200	0.56	15.28
937	426	Shell-Thick	INVSLE	-1.2522	-0.0596	0.26	7.11
937	426	Shell-Thick	INVSLE	-0.3701	0.8983	0.21	7.11
937	426	Shell-Thick	INVSLE	-0.4328	0.9102	0.21	7.16
937	426	Shell-Thick	INVSLE	-1.3070	-0.0511	0.26	7.16
937	426	Shell-Thick	INVSLU	-0.8730	2.6438	0.90	24.53
937	426	Shell-Thick	INVSLU	-0.3437	5.9498	0.71	24.53
937	426	Shell-Thick	INVSLU	-0.3845	6.0076	0.71	24.70
937	426	Shell-Thick	INVSLU	-0.9071	2.6940	0.90	24.70
937	426	Shell-Thick	INVSLU	-1.9545	-0.0804	0.35	9.60
937	426	Shell-Thick	INVSLU	-0.5170	1.2128	0.28	9.60
937	426	Shell-Thick	INVSLU	-0.6065	1.2287	0.28	9.67
937	426	Shell-Thick	INVSLU	-2.0436	-0.0690	0.35	9.67
938	427	Shell-Thick	INVSLE	-0.6580	1.2244	9.785E-02	15.28
938	427	Shell-Thick	INVSLE	-0.2650	3.2795	7.744E-02	15.28
938	427	Shell-Thick	INVSLE	-0.2704	3.2851	7.744E-02	15.30
938	427	Shell-Thick	INVSLE	-0.6624	1.2288	9.785E-02	15.30
938	427	Shell-Thick	INVSLE	-1.2801	-0.0486	4.613E-02	7.16
938	427	Shell-Thick	INVSLE	-0.3927	0.9144	3.667E-02	7.16
938	427	Shell-Thick	INVSLE	-0.4039	0.9163	3.667E-02	7.17
938	427	Shell-Thick	INVSLE	-1.2896	-0.0473	4.613E-02	7.17
938	427	Shell-Thick	INVSLU	-0.8884	2.7006	0.16	24.70
938	427	Shell-Thick	INVSLU	-0.3578	6.0223	0.12	24.70
938	427	Shell-Thick	INVSLU	-0.3651	6.0319	0.12	24.72
938	427	Shell-Thick	INVSLU	-0.8943	2.7086	0.16	24.72
938	427	Shell-Thick	INVSLU	-2.0014	-0.0656	6.227E-02	9.67
938	427	Shell-Thick	INVSLU	-0.5494	1.2344	4.950E-02	9.67
938	427	Shell-Thick	INVSLU	-0.5653	1.2371	4.950E-02	9.68
938	427	Shell-Thick	INVSLU	-2.0169	-0.0638	6.227E-02	9.68
939	428	Shell-Thick	INVSLE	-0.6677	1.2272	-0.17	15.30
939	428	Shell-Thick	INVSLE	-0.2787	3.2813	-0.13	15.30
939	428	Shell-Thick	INVSLE	-0.2592	3.2591	-0.13	15.23
939	428	Shell-Thick	INVSLE	-0.6513	1.2080	-0.17	15.23
939	428	Shell-Thick	INVSLE	-1.2994	-0.0482	-0.36	7.17
939	428	Shell-Thick	INVSLE	-0.4209	0.9146	-0.29	7.17
939	428	Shell-Thick	INVSLE	-0.3807	0.9066	-0.29	7.14
939	428	Shell-Thick	INVSLE	-1.2637	-0.0541	-0.36	7.14
939	428	Shell-Thick	INVSLU	-0.9014	2.7062	-0.23	24.72
939	428	Shell-Thick	INVSLU	-0.3762	6.0258	-0.18	24.72
939	428	Shell-Thick	INVSLU	-0.3499	5.9870	-0.18	24.62
939	428	Shell-Thick	INVSLU	-0.8792	2.6717	-0.23	24.62
939	428	Shell-Thick	INVSLU	-2.0320	-0.0651	-0.58	9.68
939	428	Shell-Thick	INVSLU	-0.5896	1.2347	-0.46	9.68
939	428	Shell-Thick	INVSLU	-0.5321	1.2239	-0.46	9.64
939	428	Shell-Thick	INVSLU	-1.9740	-0.0731	-0.58	9.64
940	429	Shell-Thick	INVSLE	-0.6783	1.2004	-0.39	15.24
940	429	Shell-Thick	INVSLE	-0.2929	3.2426	-0.31	15.24
940	429	Shell-Thick	INVSLE	-0.2484	3.1933	-0.31	15.09
940	429	Shell-Thick	INVSLE	-0.6408	1.1584	-0.39	15.09
940	429	Shell-Thick	INVSLE	-1.3181	-0.0586	-0.82	7.14
940	429	Shell-Thick	INVSLE	-0.4469	0.8990	-0.65	7.14
940	429	Shell-Thick	INVSLE	-0.3548	0.8814	-0.65	7.07
940	429	Shell-Thick	INVSLE	-1.2368	-0.0714	-0.82	7.07
940	429	Shell-Thick	INVSLU	-0.9157	2.6604	-0.52	24.62
940	429	Shell-Thick	INVSLU	-0.3955	5.9604	-0.42	24.62
940	429	Shell-Thick	INVSLU	-0.3354	5.8743	-0.42	24.38
940	429	Shell-Thick	INVSLU	-0.8651	2.5846	-0.52	24.38
940	429	Shell-Thick	INVSLU	-2.0600	-0.0791	-1.32	9.64
940	429	Shell-Thick	INVSLU	-0.6264	1.2136	-1.05	9.64
940	429	Shell-Thick	INVSLU	-0.4949	1.1899	-1.05	9.54
940	429	Shell-Thick	INVSLU	-1.9279	-0.0964	-1.32	9.54
941	430	Shell-Thick	INVSLE	-0.6869	1.1450	-0.61	15.09
941	430	Shell-Thick	INVSLE	-0.3103	3.1640	-0.49	15.09
941	430	Shell-Thick	INVSLE	-0.2402	3.0895	-0.49	14.86
941	430	Shell-Thick	INVSLE	-0.6276	1.0816	-0.61	14.86
941	430	Shell-Thick	INVSLE	-1.3275	-0.0793	-1.29	7.07
941	430	Shell-Thick	INVSLE	-0.4780	0.8677	-1.03	7.07
941	430	Shell-Thick	INVSLE	-0.3333	0.8415	-1.03	6.96
941	430	Shell-Thick	INVSLE	-1.1991	-0.0982	-1.29	6.96
941	430	Shell-Thick	INVSLU	-0.9273	2.5647	-0.83	24.39
941	430	Shell-Thick	INVSLU	-0.4189	5.8267	-0.66	24.39
941	430	Shell-Thick	INVSLU	-0.3243	5.6963	-0.66	24.01
941	430	Shell-Thick	INVSLU	-0.8473	2.4497	-0.83	24.01
941	430	Shell-Thick	INVSLU	-2.0703	-0.1070	-2.08	9.54
941	430	Shell-Thick	INVSLU	-0.6725	1.1715	-1.65	9.54
941	430	Shell-Thick	INVSLU	-0.4639	1.1361	-1.65	9.40
941	430	Shell-Thick	INVSLU	-1.8617	-0.1326	-2.08	9.40

942	431 Shell-Thick	INVSLE	-0.6957	1.0626	-0.84	14.86
942	431 Shell-Thick	INVSLE	-0.3276	3.0472	-0.67	14.86
942	431 Shell-Thick	INVSLE	-0.2310	2.9503	-0.67	14.54
942	431 Shell-Thick	INVSLE	-0.6135	0.9804	-0.84	14.54
942	431 Shell-Thick	INVSLE	-1.3342	-0.1095	-1.78	6.96
942	431 Shell-Thick	INVSLE	-0.5050	0.8217	-1.41	6.96
942	431 Shell-Thick	INVSLE	-0.3060	0.7883	-1.41	6.81
942	431 Shell-Thick	INVSLE	-1.1569	-0.1332	-1.78	6.81
942	431 Shell-Thick	INVSLU	-0.9392	2.4217	-1.14	24.03
942	431 Shell-Thick	INVSLU	-0.4422	5.6278	-0.91	24.03
942	431 Shell-Thick	INVSLU	-0.3119	5.4574	-0.91	23.51
942	431 Shell-Thick	INVSLU	-0.8283	2.2718	-1.14	23.51
942	431 Shell-Thick	INVSLU	-2.0746	-0.1478	-2.87	9.40
942	431 Shell-Thick	INVSLU	-0.7106	1.1093	-2.27	9.40
942	431 Shell-Thick	INVSLU	-0.4243	1.0642	-2.27	9.20
942	431 Shell-Thick	INVSLU	-1.7869	-0.1798	-2.87	9.20
943	432 Shell-Thick	INVSLE	-0.7008	0.9564	-1.09	14.55
943	432 Shell-Thick	INVSLE	-0.3469	2.8946	-0.87	14.55
943	432 Shell-Thick	INVSLE	-0.2227	2.7791	-0.87	14.15
943	432 Shell-Thick	INVSLE	-0.5940	0.8582	-1.09	14.15
943	432 Shell-Thick	INVSLE	-1.3270	-0.1476	-2.29	6.82
943	432 Shell-Thick	INVSLE	-0.5343	0.7621	-1.82	6.82
943	432 Shell-Thick	INVSLE	-0.2794	0.7233	-1.82	6.63
943	432 Shell-Thick	INVSLE	-1.0976	-0.1747	-2.29	6.63
943	432 Shell-Thick	INVSLU	-0.9461	2.2367	-1.47	23.53
943	432 Shell-Thick	INVSLU	-0.4683	5.3675	-1.18	23.53
943	432 Shell-Thick	INVSLU	-0.3006	5.1631	-1.18	22.87
943	432 Shell-Thick	INVSLU	-0.8019	2.0559	-1.47	22.87
943	432 Shell-Thick	INVSLU	-2.0532	-0.1993	-3.68	9.20
943	432 Shell-Thick	INVSLU	-0.7515	1.0289	-2.93	9.20
943	432 Shell-Thick	INVSLU	-0.3857	0.9765	-2.93	8.95
943	432 Shell-Thick	INVSLU	-1.6816	-0.2358	-3.68	8.95
944	433 Shell-Thick	INVSLE	-0.7037	0.8296	-1.35	14.16
944	433 Shell-Thick	INVSLE	-0.3642	2.7099	-1.08	14.16
944	433 Shell-Thick	INVSLE	-0.2106	2.5811	-1.08	13.66
944	433 Shell-Thick	INVSLE	-0.5703	0.7206	-1.35	13.66
944	433 Shell-Thick	INVSLE	-1.3117	-0.1922	-2.83	6.63
944	433 Shell-Thick	INVSLE	-0.5543	0.6906	-2.26	6.63
944	433 Shell-Thick	INVSLE	-0.2404	0.6492	-2.26	6.40
944	433 Shell-Thick	INVSLE	-1.0269	-0.2199	-2.83	6.40
944	433 Shell-Thick	INVSLU	-0.9499	2.0145	-1.82	22.89
944	433 Shell-Thick	INVSLU	-0.4916	5.0515	-1.46	22.89
944	433 Shell-Thick	INVSLU	-0.2750	4.8215	-1.46	22.08
944	433 Shell-Thick	INVSLU	-0.7700	1.8112	-1.82	22.08
944	433 Shell-Thick	INVSLU	-2.0169	-0.2594	-4.54	8.95
944	433 Shell-Thick	INVSLU	-0.7768	0.9324	-3.62	8.95
944	433 Shell-Thick	INVSLU	-0.3290	0.8764	-3.62	8.64
944	433 Shell-Thick	INVSLU	-1.5564	-0.2968	-4.54	8.64
945	434 Shell-Thick	INVSLE	-0.6990	0.6884	-1.63	13.68
945	434 Shell-Thick	INVSLE	-0.3810	2.4979	-1.32	13.68
945	434 Shell-Thick	INVSLE	-0.1953	2.3611	-1.32	13.08
945	434 Shell-Thick	INVSLE	-0.5362	0.5723	-1.63	13.08
945	434 Shell-Thick	INVSLE	-1.2736	-0.2401	-3.40	6.40
945	434 Shell-Thick	INVSLE	-0.5711	0.6096	-2.72	6.40
945	434 Shell-Thick	INVSLE	-0.1960	0.5683	-2.72	6.12
945	434 Shell-Thick	INVSLE	-0.9281	-0.2664	-3.40	6.12
945	434 Shell-Thick	INVSLU	-0.9436	1.7651	-2.21	22.11
945	434 Shell-Thick	INVSLU	-0.5143	4.6875	-1.78	22.11
945	434 Shell-Thick	INVSLU	-0.1945	4.4401	-1.78	21.15
945	434 Shell-Thick	INVSLU	-0.7239	1.5448	-2.21	21.15
945	434 Shell-Thick	INVSLU	-1.9400	-0.3242	-5.45	8.64
945	434 Shell-Thick	INVSLU	-0.7995	0.8230	-4.35	8.64
945	434 Shell-Thick	INVSLU	-0.2646	0.7672	-4.35	8.27
945	434 Shell-Thick	INVSLU	-1.3825	-0.3596	-5.45	8.27
946	435 Shell-Thick	INVSLE	-0.6874	0.5371	-1.95	13.11
946	435 Shell-Thick	INVSLE	-0.3919	2.2635	-1.57	13.11
946	435 Shell-Thick	INVSLE	-0.1271	2.1274	-1.57	12.41
946	435 Shell-Thick	INVSLE	-0.4921	0.4223	-1.95	12.41
946	435 Shell-Thick	INVSLE	-1.2176	-0.2891	-4.02	6.13
946	435 Shell-Thick	INVSLE	-0.5698	0.5216	-3.23	6.13
946	435 Shell-Thick	INVSLE	-0.1726	0.4848	-3.23	5.81
946	435 Shell-Thick	INVSLE	-0.8061	-0.3097	-4.02	5.81
946	435 Shell-Thick	INVSLU	-0.9280	1.4952	-2.63	21.19
946	435 Shell-Thick	INVSLU	-0.5291	4.2834	-2.13	21.19
946	435 Shell-Thick	INVSLU	-0.0743	4.0322	-2.13	20.08
946	435 Shell-Thick	INVSLU	-0.6643	1.2711	-2.63	20.08
946	435 Shell-Thick	INVSLU	-1.8323	-0.3903	-6.43	8.28
946	435 Shell-Thick	INVSLU	-0.7959	0.7042	-5.15	8.28

946	435	Shell-Thick	INVSLU	-0.2331	0.6545	-5.15	7.84
946	435	Shell-Thick	INVSLU	-1.1702	-0.4181	-6.43	7.84
947	436	Shell-Thick	INVSLE	-0.6614	0.3855	-2.29	12.44
947	436	Shell-Thick	INVSLE	-0.3977	2.0148	-1.86	12.44
947	436	Shell-Thick	INVSLE	-0.0415	1.8856	-1.86	11.65
947	436	Shell-Thick	INVSLE	-0.4290	0.2760	-2.29	11.65
947	436	Shell-Thick	INVSLE	-1.1242	-0.3344	-4.70	5.81
947	436	Shell-Thick	INVSLE	-0.5556	0.4306	-3.79	5.81
947	436	Shell-Thick	INVSLE	-0.1409	0.4019	-3.79	5.44
947	436	Shell-Thick	INVSLE	-0.6388	-0.3466	-4.70	5.44
947	436	Shell-Thick	INVSLU	-0.8929	1.2204	-3.09	20.12
947	436	Shell-Thick	INVSLU	-0.5369	3.8519	-2.52	20.12
947	436	Shell-Thick	INVSLU	0.0738	3.6062	-2.52	18.84
947	436	Shell-Thick	INVSLU	-0.5791	0.9980	-3.09	18.84
947	436	Shell-Thick	INVSLU	-1.6609	-0.4514	-7.49	7.85
947	436	Shell-Thick	INVSLU	-0.7738	0.5814	-6.02	7.85
947	436	Shell-Thick	INVSLU	-0.1902	0.5425	-6.02	7.35
947	436	Shell-Thick	INVSLU	-0.8939	-0.4679	-7.49	7.35
948	437	Shell-Thick	INVSLE	-0.6200	0.2386	-2.68	11.68
948	437	Shell-Thick	INVSLE	-0.3908	1.7577	-2.19	11.68
948	437	Shell-Thick	INVSLE	0.0837	1.6480	-2.19	10.78
948	437	Shell-Thick	INVSLE	-0.3455	0.1470	-2.68	10.78
948	437	Shell-Thick	INVSLE	-0.9970	-0.3729	-5.44	5.45
948	437	Shell-Thick	INVSLE	-0.5096	0.3399	-4.41	5.45
948	437	Shell-Thick	INVSLE	-0.0918	0.3255	-4.41	5.03
948	437	Shell-Thick	INVSLE	-0.4299	-0.3707	-5.44	5.03
948	437	Shell-Thick	INVSLU	-0.8370	0.9478	-3.62	18.90
948	437	Shell-Thick	INVSLU	-0.5275	3.4018	-2.96	18.90
948	437	Shell-Thick	INVSLU	0.2872	3.1816	-2.96	17.45
948	437	Shell-Thick	INVSLU	-0.4664	0.7473	-3.62	17.45
948	437	Shell-Thick	INVSLU	-1.4342	-0.5034	-8.65	7.36
948	437	Shell-Thick	INVSLU	-0.7058	0.4589	-6.99	7.36
948	437	Shell-Thick	INVSLU	-0.1239	0.4394	-6.99	6.79
948	437	Shell-Thick	INVSLU	-0.5930	-0.5004	-8.65	6.79
949	438	Shell-Thick	INVSLE	-0.5524	0.1108	-3.12	10.82
949	438	Shell-Thick	INVSLE	-0.3697	1.5042	-2.57	10.82
949	438	Shell-Thick	INVSLE	0.2449	1.4198	-2.57	9.81
949	438	Shell-Thick	INVSLE	-0.1505	0.0397	-3.12	9.81
949	438	Shell-Thick	INVSLE	-0.8111	-0.3977	-6.27	5.04
949	438	Shell-Thick	INVSLE	-0.4348	0.2555	-5.11	5.04
949	438	Shell-Thick	INVSLE	-0.0235	0.2592	-5.11	4.56
949	438	Shell-Thick	INVSLE	-0.2289	-0.3785	-6.27	4.56
949	438	Shell-Thick	INVSLU	-0.7457	0.7004	-4.21	17.52
949	438	Shell-Thick	INVSLU	-0.4991	2.9523	-3.47	17.52
949	438	Shell-Thick	INVSLU	0.5561	2.7657	-3.47	15.89
949	438	Shell-Thick	INVSLU	-0.0595	0.5247	-4.21	15.89
949	438	Shell-Thick	INVSLU	-1.1338	-0.5369	-9.92	6.80
949	438	Shell-Thick	INVSLU	-0.5968	0.3449	-8.06	6.80
949	438	Shell-Thick	INVSLU	-0.0317	0.3499	-8.06	6.16
949	438	Shell-Thick	INVSLU	-0.3091	-0.5110	-9.92	6.16
950	439	Shell-Thick	INVSLE	-0.4542	0.0059	-3.62	9.86
950	439	Shell-Thick	INVSLE	-0.3077	1.2598	-3.01	9.86
950	439	Shell-Thick	INVSLE	0.4702	1.2178	-3.01	8.73
950	439	Shell-Thick	INVSLE	0.1993	-0.0274	-3.62	8.73
950	439	Shell-Thick	INVSLE	-0.5665	-0.4055	-7.20	4.58
950	439	Shell-Thick	INVSLE	-0.3239	0.1810	-5.91	4.58
950	439	Shell-Thick	INVSLE	0.0769	0.2110	-5.91	4.04
950	439	Shell-Thick	INVSLE	-0.0741	-0.3614	-7.20	4.04
950	439	Shell-Thick	INVSLU	-0.6132	0.4831	-4.89	15.98
950	439	Shell-Thick	INVSLU	-0.2890	2.5108	-4.06	15.98
950	439	Shell-Thick	INVSLU	0.9264	2.3854	-4.06	14.16
950	439	Shell-Thick	INVSLU	0.5165	0.3601	-4.89	14.16
950	439	Shell-Thick	INVSLU	-0.7817	-0.5475	-11.35	6.18
950	439	Shell-Thick	INVSLU	-0.4373	0.2444	-9.27	6.18
950	439	Shell-Thick	INVSLU	0.1038	0.2848	-9.27	5.46
950	439	Shell-Thick	INVSLU	-0.1001	-0.4880	-11.35	5.46
951	440	Shell-Thick	INVSLE	-0.2331	-0.0566	-4.21	8.79
951	440	Shell-Thick	INVSLE	-0.1263	1.0413	-3.53	8.79
951	440	Shell-Thick	INVSLE	0.7617	1.0446	-3.53	7.54
951	440	Shell-Thick	INVSLE	0.6551	-0.0528	-4.21	7.54
951	440	Shell-Thick	INVSLE	-0.3100	-0.3873	-8.25	4.06
951	440	Shell-Thick	INVSLE	-0.2474	0.1248	-6.83	4.06
951	440	Shell-Thick	INVSLE	0.2162	0.1835	-6.83	3.47
951	440	Shell-Thick	INVSLE	0.1371	-0.3172	-8.25	3.47
951	440	Shell-Thick	INVSLU	-0.1440	0.3269	-5.68	14.27
951	440	Shell-Thick	INVSLU	0.0143	2.1040	-4.76	14.27
951	440	Shell-Thick	INVSLU	1.3943	2.0430	-4.76	12.26
951	440	Shell-Thick	INVSLU	1.2559	0.2537	-5.68	12.26

951	440	Shell-Thick	INVSLU	-0.4185	-0.5229	-12.95	5.48
951	440	Shell-Thick	INVSLU	-0.3340	0.1685	-10.66	5.48
951	440	Shell-Thick	INVSLU	0.2918	0.2478	-10.66	4.68
951	440	Shell-Thick	INVSLU	0.1851	-0.4282	-12.95	4.68
952	441	Shell-Thick	INVSLE	0.1956	-0.0764	-4.89	7.61
952	441	Shell-Thick	INVSLE	0.1373	0.8513	-4.15	7.61
952	441	Shell-Thick	INVSLE	1.1535	0.9208	-4.15	6.25
952	441	Shell-Thick	INVSLE	1.2242	-0.0146	-4.89	6.25
952	441	Shell-Thick	INVSLE	-0.1092	-0.3409	-9.46	3.50
952	441	Shell-Thick	INVSLE	-0.1248	0.0897	-7.90	3.50
952	441	Shell-Thick	INVSLE	0.4132	0.1862	-7.90	2.85
952	441	Shell-Thick	INVSLE	0.4171	-0.2362	-9.46	2.85
952	441	Shell-Thick	INVSLU	0.5489	0.2302	-6.60	12.38
952	441	Shell-Thick	INVSLU	0.4412	1.7345	-5.60	12.38
952	441	Shell-Thick	INVSLU	2.0119	1.7726	-5.60	10.19
952	441	Shell-Thick	INVSLU	2.1602	0.2423	-6.60	10.19
952	441	Shell-Thick	INVSLU	-0.1474	-0.4602	-14.76	4.72
952	441	Shell-Thick	INVSLU	-0.1685	0.1212	-12.25	4.72
952	441	Shell-Thick	INVSLU	0.5578	0.2513	-12.25	3.84
952	441	Shell-Thick	INVSLU	0.5631	-0.3188	-14.76	3.84
953	442	Shell-Thick	INVSLE	0.7522	-0.0311	-5.69	6.33
953	442	Shell-Thick	INVSLE	0.4935	0.7109	-4.90	6.33
953	442	Shell-Thick	INVSLE	1.6571	0.8451	-4.90	4.86
953	442	Shell-Thick	INVSLE	1.9467	0.0833	-5.69	4.86
953	442	Shell-Thick	INVSLE	0.1696	-0.2563	-10.85	2.88
953	442	Shell-Thick	INVSLE	0.0583	0.0858	-9.17	2.88
953	442	Shell-Thick	INVSLE	0.6843	0.2191	-9.17	2.18
953	442	Shell-Thick	INVSLE	0.7910	-0.1195	-10.85	2.18
953	442	Shell-Thick	INVSLU	1.4279	0.2300	-7.68	10.33
953	442	Shell-Thick	INVSLU	0.9982	1.4357	-6.61	10.33
953	442	Shell-Thick	INVSLU	2.7852	1.5710	-6.61	7.96
953	442	Shell-Thick	INVSLU	3.2869	0.3184	-7.68	7.96
953	442	Shell-Thick	INVSLU	0.2289	-0.3460	-16.83	3.89
953	442	Shell-Thick	INVSLU	0.0786	0.1158	-14.12	3.89
953	442	Shell-Thick	INVSLU	0.9238	0.2958	-14.12	2.95
953	442	Shell-Thick	INVSLU	1.0679	-0.1614	-16.83	2.95
954	443	Shell-Thick	INVSLE	4.4848	0.6955	15.81	-0.10
954	443	Shell-Thick	INVSLE	3.1705	0.8356	13.45	-0.10
954	443	Shell-Thick	INVSLE	1.4927	0.5017	13.45	1.86
954	443	Shell-Thick	INVSLE	2.7172	0.4207	15.81	1.86
954	443	Shell-Thick	INVSLE	2.4873	0.4012	9.02	-0.21
954	443	Shell-Thick	INVSLE	1.8300	0.4623	7.89	-0.21
954	443	Shell-Thick	INVSLE	0.8460	0.2574	7.89	0.89
954	443	Shell-Thick	INVSLE	1.4797	0.2117	9.02	0.89
954	443	Shell-Thick	INVSLU	6.8012	1.0368	23.67	-0.14
954	443	Shell-Thick	INVSLU	4.7250	1.2684	19.90	-0.14
954	443	Shell-Thick	INVSLU	2.2425	0.7850	19.90	2.97
954	443	Shell-Thick	INVSLU	4.1523	0.6630	23.67	2.97
954	443	Shell-Thick	INVSLU	3.3579	0.5416	12.18	-0.34
954	443	Shell-Thick	INVSLU	2.4705	0.6240	10.65	-0.34
954	443	Shell-Thick	INVSLU	1.1422	0.3475	10.65	1.21
954	443	Shell-Thick	INVSLU	1.9976	0.2858	12.18	1.21
955	444	Shell-Thick	INVSLE	3.3366	0.4248	13.46	1.73
955	444	Shell-Thick	INVSLE	2.4626	0.8154	11.10	1.73
955	444	Shell-Thick	INVSLE	1.0460	0.6138	11.10	3.79
955	444	Shell-Thick	INVSLE	1.8603	0.2620	13.46	3.79
955	444	Shell-Thick	INVSLE	1.7148	0.2105	7.54	0.84
955	444	Shell-Thick	INVSLE	1.2978	0.3959	6.36	0.84
955	444	Shell-Thick	INVSLE	0.4836	0.2388	6.36	1.87
955	444	Shell-Thick	INVSLE	0.8914	0.0590	7.54	1.87
955	444	Shell-Thick	INVSLU	5.2173	0.6733	20.33	2.75
955	444	Shell-Thick	INVSLU	3.8134	1.3019	16.59	2.75
955	444	Shell-Thick	INVSLU	1.6982	1.0486	16.59	6.02
955	444	Shell-Thick	INVSLU	2.9838	0.4974	20.33	6.02
955	444	Shell-Thick	INVSLU	2.3149	0.2841	10.18	1.14
955	444	Shell-Thick	INVSLU	1.7520	0.5345	8.59	1.14
955	444	Shell-Thick	INVSLU	0.6528	0.3224	8.59	2.53
955	444	Shell-Thick	INVSLU	1.2034	0.0796	10.18	2.53
956	445	Shell-Thick	INVSLE	2.4258	0.2590	11.50	3.67
956	445	Shell-Thick	INVSLE	1.8832	0.8974	9.24	3.67
956	445	Shell-Thick	INVSLE	0.6806	0.8286	9.24	5.65
956	445	Shell-Thick	INVSLE	1.1861	0.2140	11.50	5.65
956	445	Shell-Thick	INVSLE	1.1432	0.0610	6.32	1.82
956	445	Shell-Thick	INVSLE	0.9088	0.3722	5.18	1.82
956	445	Shell-Thick	INVSLE	0.2310	0.2767	5.18	2.82
956	445	Shell-Thick	INVSLE	0.4673	-0.0364	6.32	2.82
956	445	Shell-Thick	INVSLU	3.9132	0.4886	17.50	5.82
956	445	Shell-Thick	INVSLU	3.0132	1.5063	13.95	5.82

956	445	Shell-Thick	INVSLU	1.2020	1.4686	13.95	8.92
956	445	Shell-Thick	INVSLU	2.0197	0.5043	17.50	8.92
956	445	Shell-Thick	INVSLU	1.5433	0.0823	8.53	2.46
956	445	Shell-Thick	INVSLU	1.2269	0.5025	6.99	2.46
956	445	Shell-Thick	INVSLU	0.3118	0.3735	6.99	3.81
956	445	Shell-Thick	INVSLU	0.6308	-0.0492	8.53	3.81
957	446	Shell-Thick	INVSLE	1.7034	0.2121	9.86	5.54
957	446	Shell-Thick	INVSLE	1.4303	1.0838	7.77	5.54
957	446	Shell-Thick	INVSLE	0.3994	1.1128	7.77	7.37
957	446	Shell-Thick	INVSLE	0.6580	0.2497	9.86	7.37
957	446	Shell-Thick	INVSLE	0.7219	-0.0302	5.32	2.77
957	446	Shell-Thick	INVSLE	0.6287	0.4009	4.26	2.77
957	446	Shell-Thick	INVSLE	0.0589	0.3557	4.26	3.70
957	446	Shell-Thick	INVSLE	0.1640	-0.0839	5.32	3.70
957	446	Shell-Thick	INVSLU	2.8416	0.4930	15.13	8.74
957	446	Shell-Thick	INVSLU	2.3599	1.8758	11.84	8.74
957	446	Shell-Thick	INVSLU	0.7943	1.9907	11.84	11.62
957	446	Shell-Thick	INVSLU	1.2309	0.6365	15.13	11.62
957	446	Shell-Thick	INVSLU	0.9746	-0.0407	7.18	3.75
957	446	Shell-Thick	INVSLU	0.8487	0.5412	5.75	3.75
957	446	Shell-Thick	INVSLU	0.0795	0.4802	5.75	5.00
957	446	Shell-Thick	INVSLU	0.2214	-0.1132	7.18	5.00
958	447	Shell-Thick	INVSLE	1.1449	0.2552	8.49	7.27
958	447	Shell-Thick	INVSLE	1.0929	1.3434	6.59	7.27
958	447	Shell-Thick	INVSLE	0.2038	1.4596	6.59	8.93
958	447	Shell-Thick	INVSLE	0.2576	0.3693	8.49	8.93
958	447	Shell-Thick	INVSLE	0.4158	-0.0722	4.50	3.66
958	447	Shell-Thick	INVSLE	0.4360	0.4698	3.54	3.66
958	447	Shell-Thick	INVSLE	-0.0468	0.4715	3.54	4.50
958	447	Shell-Thick	INVSLE	-0.0480	-0.0836	4.50	4.50
958	447	Shell-Thick	INVSLU	1.9904	0.6348	13.12	11.46
958	447	Shell-Thick	INVSLU	1.8548	2.3564	10.13	11.46
958	447	Shell-Thick	INVSLU	0.4944	2.6054	10.13	14.07
958	447	Shell-Thick	INVSLU	0.6119	0.8945	13.12	14.07
958	447	Shell-Thick	INVSLU	0.5614	-0.0974	6.07	4.94
958	447	Shell-Thick	INVSLU	0.5886	0.6342	4.78	4.94
958	447	Shell-Thick	INVSLU	-0.0632	0.6365	4.78	6.07
958	447	Shell-Thick	INVSLU	-0.0648	-0.1129	6.07	6.07
959	448	Shell-Thick	INVSLE	0.7136	0.3836	7.34	8.85
959	448	Shell-Thick	INVSLE	0.8599	1.6677	5.63	8.85
959	448	Shell-Thick	INVSLE	0.0870	1.8482	5.63	10.34
959	448	Shell-Thick	INVSLE	-0.0412	0.5512	7.34	10.34
959	448	Shell-Thick	INVSLE	0.1958	-0.0670	3.82	4.47
959	448	Shell-Thick	INVSLE	0.3099	0.5750	2.97	4.47
959	448	Shell-Thick	INVSLE	-0.1028	0.6137	2.97	5.21
959	448	Shell-Thick	INVSLE	-0.1916	-0.0457	3.82	5.21
959	448	Shell-Thick	INVSLU	1.3142	0.9061	11.41	13.94
959	448	Shell-Thick	INVSLU	1.4977	2.9348	8.72	13.94
959	448	Shell-Thick	INVSLU	0.3071	3.2798	8.72	16.30
959	448	Shell-Thick	INVSLU	0.1332	1.2433	11.41	16.30
959	448	Shell-Thick	INVSLU	0.2643	-0.0905	5.16	6.03
959	448	Shell-Thick	INVSLU	0.4183	0.7762	4.01	6.03
959	448	Shell-Thick	INVSLU	-0.1388	0.8284	4.01	7.04
959	448	Shell-Thick	INVSLU	-0.2586	-0.0617	5.16	7.04
960	449	Shell-Thick	INVSLE	0.3967	0.5736	6.35	10.28
960	449	Shell-Thick	INVSLE	0.6962	2.0352	4.83	10.28
960	449	Shell-Thick	INVSLE	0.0232	2.2712	4.83	11.61
960	449	Shell-Thick	INVSLE	-0.2479	0.7898	6.35	11.61
960	449	Shell-Thick	INVSLE	0.0430	-0.0254	3.26	5.19
960	449	Shell-Thick	INVSLE	0.2284	0.7065	2.51	5.19
960	449	Shell-Thick	INVSLE	-0.1257	0.7768	2.51	5.85
960	449	Shell-Thick	INVSLE	-0.2820	0.0250	3.26	5.85
960	449	Shell-Thick	INVSLU	0.8069	1.2681	9.94	16.18
960	449	Shell-Thick	INVSLU	1.2387	3.5760	7.53	16.18
960	449	Shell-Thick	INVSLU	0.1960	4.0042	7.53	18.29
960	449	Shell-Thick	INVSLU	-0.2082	1.6767	9.94	18.29
960	449	Shell-Thick	INVSLU	0.0580	-0.0343	4.40	7.00
960	449	Shell-Thick	INVSLU	0.3083	0.9538	3.38	7.00
960	449	Shell-Thick	INVSLU	-0.1698	1.0486	3.38	7.89
960	449	Shell-Thick	INVSLU	-0.3808	0.0338	4.40	7.89
961	450	Shell-Thick	INVSLE	0.1569	0.8182	5.51	11.56
961	450	Shell-Thick	INVSLE	0.5963	2.4384	4.15	11.56
961	450	Shell-Thick	INVSLE	0.0082	2.7086	4.15	12.74
961	450	Shell-Thick	INVSLE	-0.3371	1.0620	5.51	12.74
961	450	Shell-Thick	INVSLE	-0.0640	0.0475	2.79	5.83
961	450	Shell-Thick	INVSLE	0.1814	0.8593	2.12	5.83
961	450	Shell-Thick	INVSLE	-0.1238	0.9508	2.12	6.41
961	450	Shell-Thick	INVSLE	-0.3928	0.1171	2.79	6.41

961	450	Shell-Thick	INVSLU	0.4130	1.7118	8.66	18.20
961	450	Shell-Thick	INVSLU	1.0774	4.2696	6.51	18.20
961	450	Shell-Thick	INVSLU	0.1613	4.7471	6.51	20.08
961	450	Shell-Thick	INVSLU	-0.4550	2.1578	8.66	20.08
961	450	Shell-Thick	INVSLU	-0.0865	0.0642	3.76	7.87
961	450	Shell-Thick	INVSLU	0.2449	1.1600	2.86	7.87
961	450	Shell-Thick	INVSLU	-0.1671	1.2835	2.86	8.65
961	450	Shell-Thick	INVSLU	-0.5386	0.1581	3.76	8.65
962	451	Shell-Thick	INVSLE	-0.0102	1.0947	4.76	12.70
962	451	Shell-Thick	INVSLE	0.5310	2.8571	3.57	12.70
962	451	Shell-Thick	INVSLE	0.0187	3.1509	3.57	13.74
962	451	Shell-Thick	INVSLE	-0.3637	1.3590	4.76	13.74
962	451	Shell-Thick	INVSLE	-0.1340	0.1407	2.38	6.39
962	451	Shell-Thick	INVSLE	0.1546	1.0235	1.80	6.39
962	451	Shell-Thick	INVSLE	-0.1082	1.1300	1.80	6.90
962	451	Shell-Thick	INVSLE	-0.4793	0.2248	2.38	6.90
962	451	Shell-Thick	INVSLU	0.1334	2.2009	7.52	20.00
962	451	Shell-Thick	INVSLU	0.9674	4.9834	5.62	20.00
962	451	Shell-Thick	INVSLU	0.1658	5.4945	5.62	21.66
962	451	Shell-Thick	INVSLU	-0.4910	2.6742	7.52	21.66
962	451	Shell-Thick	INVSLU	-0.1809	0.1900	3.22	8.63
962	451	Shell-Thick	INVSLU	0.2088	1.3817	2.43	8.63
962	451	Shell-Thick	INVSLU	-0.1460	1.5255	2.43	9.32
962	451	Shell-Thick	INVSLU	-0.6644	0.3034	3.22	9.32
963	452	Shell-Thick	INVSLE	-0.1348	1.3937	4.11	13.71
963	452	Shell-Thick	INVSLE	0.5020	3.2818	3.06	13.71
963	452	Shell-Thick	INVSLE	0.0563	3.5824	3.06	14.62
963	452	Shell-Thick	INVSLE	-0.3741	1.6619	4.11	14.62
963	452	Shell-Thick	INVSLE	-0.1814	0.2483	2.03	6.89
963	452	Shell-Thick	INVSLE	0.1449	1.1935	1.52	6.89
963	452	Shell-Thick	INVSLE	-0.0812	1.3069	1.52	7.34
963	452	Shell-Thick	INVSLE	-0.5330	0.3390	2.03	7.34
963	452	Shell-Thick	INVSLU	-0.0807	2.7218	6.51	21.61
963	452	Shell-Thick	INVSLU	0.9162	5.7035	4.84	21.61
963	452	Shell-Thick	INVSLU	0.2159	6.2211	4.84	23.07
963	452	Shell-Thick	INVSLU	-0.5050	3.1959	6.51	23.07
963	452	Shell-Thick	INVSLU	-0.2449	0.3352	2.74	9.30
963	452	Shell-Thick	INVSLU	0.1956	1.6113	2.06	9.30
963	452	Shell-Thick	INVSLU	-0.1097	1.7643	2.06	9.90
963	452	Shell-Thick	INVSLU	-0.7433	0.4576	2.74	9.90
964	453	Shell-Thick	INVSLE	-0.2091	1.6972	3.52	14.59
964	453	Shell-Thick	INVSLE	0.4868	3.6967	2.61	14.59
964	453	Shell-Thick	INVSLE	0.1023	3.9940	2.61	15.39
964	453	Shell-Thick	INVSLE	-0.3703	1.9622	3.52	15.39
964	453	Shell-Thick	INVSLE	-0.2151	0.3618	1.72	7.33
964	453	Shell-Thick	INVSLE	0.1427	1.3618	1.29	7.33
964	453	Shell-Thick	INVSLE	-0.0507	1.4768	1.29	7.71
964	453	Shell-Thick	INVSLE	-0.5520	0.4549	1.72	7.71
964	453	Shell-Thick	INVSLU	-0.2220	3.2458	5.59	23.02
964	453	Shell-Thick	INVSLU	0.8858	6.4042	4.14	23.02
964	453	Shell-Thick	INVSLU	0.2797	6.9130	4.14	24.29
964	453	Shell-Thick	INVSLU	-0.4999	3.7100	5.59	24.29
964	453	Shell-Thick	INVSLU	-0.2913	0.4884	2.33	9.89
964	453	Shell-Thick	INVSLU	0.1927	1.8385	1.74	9.89
964	453	Shell-Thick	INVSLU	-0.0684	1.9937	1.74	10.41
964	453	Shell-Thick	INVSLU	-0.7724	0.6141	2.33	10.41
965	454	Shell-Thick	INVSLE	-0.2270	1.9965	2.98	15.37
965	454	Shell-Thick	INVSLE	0.4906	4.0928	2.20	15.37
965	454	Shell-Thick	INVSLE	0.1616	4.3749	2.20	16.05
965	454	Shell-Thick	INVSLE	-0.3606	2.2466	2.98	16.05
965	454	Shell-Thick	INVSLE	-0.2747	0.4762	1.45	7.70
965	454	Shell-Thick	INVSLE	0.1481	1.5239	1.08	7.70
965	454	Shell-Thick	INVSLE	-0.0161	1.6347	1.08	8.03
965	454	Shell-Thick	INVSLE	-0.5565	0.5664	1.45	8.03
965	454	Shell-Thick	INVSLU	-0.3064	3.7594	4.76	24.26
965	454	Shell-Thick	INVSLU	0.8878	7.0718	3.51	24.26
965	454	Shell-Thick	INVSLU	0.3676	7.5525	3.51	25.35
965	454	Shell-Thick	INVSLU	-0.4869	4.1949	4.76	25.35
965	454	Shell-Thick	INVSLU	-0.3779	0.6429	1.96	10.40
965	454	Shell-Thick	INVSLU	0.1999	2.0572	1.45	10.40
965	454	Shell-Thick	INVSLU	-0.0217	2.2068	1.45	10.84
965	454	Shell-Thick	INVSLU	-0.7836	0.7647	1.96	10.84
966	455	Shell-Thick	INVSLE	-0.2351	2.2789	2.49	16.03
966	455	Shell-Thick	INVSLE	0.4958	4.4590	1.84	16.03
966	455	Shell-Thick	INVSLE	0.2190	4.7179	1.84	16.61
966	455	Shell-Thick	INVSLE	-0.3448	2.5083	2.49	16.61
966	455	Shell-Thick	INVSLE	-0.3089	0.5859	1.21	8.03
966	455	Shell-Thick	INVSLE	0.1543	1.6744	0.89	8.03

966	455	Shell-Thick	INVSLE	0.0170	1.7772	0.89	8.30
966	455	Shell-Thick	INVSLE	-0.5421	0.6701	1.21	8.30
966	455	Shell-Thick	INVSLU	-0.3173	4.2421	3.99	25.32
966	455	Shell-Thick	INVSLU	0.8918	7.6880	2.93	25.32
966	455	Shell-Thick	INVSLU	0.4532	8.1280	2.93	26.25
966	455	Shell-Thick	INVSLU	-0.4654	4.6399	3.99	26.25
966	455	Shell-Thick	INVSLU	-0.4281	0.7909	1.63	10.84
966	455	Shell-Thick	INVSLU	0.2082	2.2605	1.20	10.84
966	455	Shell-Thick	INVSLU	0.0230	2.3993	1.20	11.21
966	455	Shell-Thick	INVSLU	-0.7709	0.9046	1.63	11.21
967	456	Shell-Thick	INVSLE	-0.2403	2.5373	2.04	16.60
967	456	Shell-Thick	INVSLE	0.5089	4.7881	1.50	16.60
967	456	Shell-Thick	INVSLE	0.2808	5.0160	1.50	17.08
967	456	Shell-Thick	INVSLE	-0.3285	2.7385	2.04	17.08
967	456	Shell-Thick	INVSLE	-0.3356	0.6872	0.98	8.30
967	456	Shell-Thick	INVSLE	0.1627	1.8102	0.72	8.30
967	456	Shell-Thick	INVSLE	0.0502	1.9013	0.72	8.53
967	456	Shell-Thick	INVSLE	-0.5243	0.7619	0.98	8.53
967	456	Shell-Thick	INVSLU	-0.3244	4.6828	3.27	26.23
967	456	Shell-Thick	INVSLU	0.9104	8.2414	2.40	26.23
967	456	Shell-Thick	INVSLU	0.5481	8.6280	2.40	26.99
967	456	Shell-Thick	INVSLU	-0.4434	5.0306	3.27	26.99
967	456	Shell-Thick	INVSLU	-0.4674	0.9277	1.32	11.20
967	456	Shell-Thick	INVSLU	0.2196	2.4437	0.98	11.20
967	456	Shell-Thick	INVSLU	0.0678	2.5668	0.98	11.51
967	456	Shell-Thick	INVSLU	-0.7514	1.0285	1.32	11.51
968	457	Shell-Thick	INVSLE	-0.2415	2.7637	1.62	17.07
968	457	Shell-Thick	INVSLE	0.5162	5.0730	1.18	17.07
968	457	Shell-Thick	INVSLE	0.3348	5.2642	1.18	17.45
968	457	Shell-Thick	INVSLE	-0.3104	2.9324	1.62	17.45
968	457	Shell-Thick	INVSLE	-0.3493	0.7764	0.77	8.52
968	457	Shell-Thick	INVSLE	0.1684	1.9278	0.57	8.52
968	457	Shell-Thick	INVSLE	0.0793	2.0047	0.57	8.70
968	457	Shell-Thick	INVSLE	-0.4976	0.8396	0.77	8.70
968	457	Shell-Thick	INVSLU	-0.3260	5.0681	2.59	26.98
968	457	Shell-Thick	INVSLU	0.9196	8.7201	1.90	26.98
968	457	Shell-Thick	INVSLU	0.6310	9.0440	1.90	27.59
968	457	Shell-Thick	INVSLU	-0.4190	5.3593	2.59	27.59
968	457	Shell-Thick	INVSLU	-0.4878	1.0481	1.04	11.51
968	457	Shell-Thick	INVSLU	0.2274	2.6026	0.77	11.51
968	457	Shell-Thick	INVSLU	0.1071	2.7063	0.77	11.75
968	457	Shell-Thick	INVSLU	-0.7146	1.1334	1.04	11.75
969	458	Shell-Thick	INVSLE	-0.2436	2.9529	1.21	17.44
969	458	Shell-Thick	INVSLE	0.5245	5.3085	0.89	17.44
969	458	Shell-Thick	INVSLE	0.3876	5.4584	0.89	17.73
969	458	Shell-Thick	INVSLE	-0.2947	3.0847	1.21	17.73
969	458	Shell-Thick	INVSLE	-0.3636	0.8512	0.58	8.70
969	458	Shell-Thick	INVSLE	0.1733	2.0252	0.42	8.70
969	458	Shell-Thick	INVSLE	0.1064	2.0856	0.42	8.84
969	458	Shell-Thick	INVSLE	-0.4740	0.9009	0.58	8.84
969	458	Shell-Thick	INVSLU	-0.3288	5.3900	1.95	27.58
969	458	Shell-Thick	INVSLU	0.9318	9.1159	1.42	27.58
969	458	Shell-Thick	INVSLU	0.7137	9.3695	1.42	28.04
969	458	Shell-Thick	INVSLU	-0.3978	5.6171	1.95	28.04
969	458	Shell-Thick	INVSLU	-0.5089	1.1491	0.78	11.75
969	458	Shell-Thick	INVSLU	0.2340	2.7340	0.57	11.75
969	458	Shell-Thick	INVSLU	0.1436	2.8156	0.57	11.93
969	458	Shell-Thick	INVSLU	-0.6819	1.2162	0.78	11.93
970	459	Shell-Thick	INVSLE	-0.2450	3.1001	0.83	17.73
970	459	Shell-Thick	INVSLE	0.5228	5.4903	0.60	17.73
970	459	Shell-Thick	INVSLE	0.4293	5.5954	0.60	17.92
970	459	Shell-Thick	INVSLE	-0.2795	3.1925	0.83	17.92
970	459	Shell-Thick	INVSLE	-0.3725	0.9095	0.39	8.84
970	459	Shell-Thick	INVSLE	0.1737	2.1004	0.29	8.84
970	459	Shell-Thick	INVSLE	0.1280	2.1428	0.29	8.93
970	459	Shell-Thick	INVSLE	-0.4472	0.9445	0.39	8.93
970	459	Shell-Thick	INVSLU	-0.3307	5.6403	1.33	28.03
970	459	Shell-Thick	INVSLU	0.9278	9.4214	0.97	28.03
970	459	Shell-Thick	INVSLU	0.7787	9.5991	0.97	28.35
970	459	Shell-Thick	INVSLU	-0.3773	5.7994	1.33	28.35
970	459	Shell-Thick	INVSLU	-0.5220	1.2279	0.53	11.93
970	459	Shell-Thick	INVSLU	0.2344	2.8355	0.39	11.93
970	459	Shell-Thick	INVSLU	0.1728	2.8928	0.39	12.06
970	459	Shell-Thick	INVSLU	-0.6418	1.2750	0.53	12.06
971	460	Shell-Thick	INVSLE	-0.2493	3.2024	0.45	17.92
971	460	Shell-Thick	INVSLE	0.5181	5.6154	0.33	17.92
971	460	Shell-Thick	INVSLE	0.4669	5.6734	0.33	18.03
971	460	Shell-Thick	INVSLE	-0.2679	3.2532	0.45	18.03

971	460	Shell-Thick	INVSLE	-0.3865	0.9500	0.21	8.93
971	460	Shell-Thick	INVSLE	0.1715	2.1520	0.16	8.93
971	460	Shell-Thick	INVSLE	0.1466	2.1755	0.16	8.98
971	460	Shell-Thick	INVSLE	-0.4269	0.9692	0.21	8.98
971	460	Shell-Thick	INVSLU	-0.3365	5.8143	0.72	28.34
971	460	Shell-Thick	INVSLU	0.9199	9.6317	0.53	28.34
971	460	Shell-Thick	INVSLU	0.8384	9.7298	0.53	28.52
971	460	Shell-Thick	INVSLU	-0.3617	5.9017	0.72	28.52
971	460	Shell-Thick	INVSLU	-0.5455	1.2825	0.29	12.06
971	460	Shell-Thick	INVSLU	0.2315	2.9052	0.21	12.06
971	460	Shell-Thick	INVSLU	0.1979	2.9369	0.21	12.12
971	460	Shell-Thick	INVSLU	-0.6113	1.3084	0.29	12.12
972	461	Shell-Thick	INVSLE	-0.2546	3.2574	7.919E-02	18.03
972	461	Shell-Thick	INVSLE	0.5012	5.6817	5.761E-02	18.03
972	461	Shell-Thick	INVSLE	0.4921	5.6914	5.761E-02	18.04
972	461	Shell-Thick	INVSLE	-0.2578	3.2657	7.919E-02	18.04
972	461	Shell-Thick	INVSLE	-0.3990	0.9715	3.759E-02	8.98
972	461	Shell-Thick	INVSLE	0.1638	2.1793	2.743E-02	8.98
972	461	Shell-Thick	INVSLE	0.1594	2.1832	2.743E-02	8.99
972	461	Shell-Thick	INVSLE	-0.4060	0.9747	3.759E-02	8.99
972	461	Shell-Thick	INVSLU	-0.3437	5.9081	0.13	28.51
972	461	Shell-Thick	INVSLU	0.8925	9.7431	9.260E-02	28.51
972	461	Shell-Thick	INVSLU	0.8779	9.7595	9.260E-02	28.54
972	461	Shell-Thick	INVSLU	-0.3480	5.9224	0.13	28.54
972	461	Shell-Thick	INVSLU	-0.5665	1.3116	5.075E-02	12.12
972	461	Shell-Thick	INVSLU	0.2211	2.9420	3.703E-02	12.12
972	461	Shell-Thick	INVSLU	0.2151	2.9473	3.703E-02	12.14
972	461	Shell-Thick	INVSLU	-0.5778	1.3158	5.075E-02	12.14
973	462	Shell-Thick	INVSLE	-0.2637	3.2640	-0.14	18.04
973	462	Shell-Thick	INVSLE	0.4796	5.6879	-0.10	18.04
973	462	Shell-Thick	INVSLE	0.5124	5.6492	-0.10	17.98
973	462	Shell-Thick	INVSLE	-0.2516	3.2296	-0.14	17.98
973	462	Shell-Thick	INVSLE	-0.4186	0.9738	-0.29	8.99
973	462	Shell-Thick	INVSLE	0.1529	2.1816	-0.21	8.99
973	462	Shell-Thick	INVSLE	0.1688	2.1659	-0.21	8.96
973	462	Shell-Thick	INVSLE	-0.3923	0.9607	-0.29	8.96
973	462	Shell-Thick	INVSLU	-0.3560	5.9199	-0.19	28.55
973	462	Shell-Thick	INVSLU	0.8584	9.7540	-0.14	28.55
973	462	Shell-Thick	INVSLU	0.9107	9.6884	-0.14	28.43
973	462	Shell-Thick	INVSLU	-0.3396	5.8607	-0.19	28.43
973	462	Shell-Thick	INVSLU	-0.5983	1.3146	-0.47	12.14
973	462	Shell-Thick	INVSLU	0.2064	2.9452	-0.34	12.14
973	462	Shell-Thick	INVSLU	0.2279	2.9240	-0.34	12.09
973	462	Shell-Thick	INVSLU	-0.5555	1.2969	-0.47	12.09
974	463	Shell-Thick	INVSLE	-0.2742	3.2223	-0.32	17.98
974	463	Shell-Thick	INVSLE	0.4454	5.6340	-0.23	17.98
974	463	Shell-Thick	INVSLE	0.5203	5.5475	-0.23	17.82
974	463	Shell-Thick	INVSLE	-0.2464	3.1457	-0.32	17.82
974	463	Shell-Thick	INVSLE	-0.4378	0.9566	-0.66	8.96
974	463	Shell-Thick	INVSLE	0.1361	2.1589	-0.48	8.96
974	463	Shell-Thick	INVSLE	0.1727	2.1240	-0.48	8.88
974	463	Shell-Thick	INVSLE	-0.3775	0.9276	-0.66	8.88
974	463	Shell-Thick	INVSLU	-0.3702	5.8497	-0.43	28.44
974	463	Shell-Thick	INVSLU	0.8040	9.6637	-0.31	28.44
974	463	Shell-Thick	INVSLU	0.9234	9.5174	-0.31	28.18
974	463	Shell-Thick	INVSLU	-0.3327	5.7180	-0.43	28.18
974	463	Shell-Thick	INVSLU	-0.6275	1.2914	-1.07	12.09
974	463	Shell-Thick	INVSLU	0.1838	2.9146	-0.78	12.09
974	463	Shell-Thick	INVSLU	0.2331	2.8674	-0.78	11.99
974	463	Shell-Thick	INVSLU	-0.5295	1.2522	-1.07	11.99
975	464	Shell-Thick	INVSLE	-0.2885	3.1328	-0.50	17.82
975	464	Shell-Thick	INVSLE	0.4068	5.5205	-0.36	17.82
975	464	Shell-Thick	INVSLE	0.5247	5.3882	-0.36	17.58
975	464	Shell-Thick	INVSLE	-0.2445	3.0159	-0.50	17.58
975	464	Shell-Thick	INVSLE	-0.4637	0.9203	-1.05	8.88
975	464	Shell-Thick	INVSLE	0.1162	2.1115	-0.76	8.88
975	464	Shell-Thick	INVSLE	0.1738	2.0582	-0.76	8.77
975	464	Shell-Thick	INVSLE	-0.3686	0.8761	-1.05	8.77
975	464	Shell-Thick	INVSLU	-0.3895	5.6985	-0.67	28.19
975	464	Shell-Thick	INVSLU	0.7438	9.4735	-0.49	28.19
975	464	Shell-Thick	INVSLU	0.9316	9.2497	-0.49	27.79
975	464	Shell-Thick	INVSLU	-0.3301	5.4972	-0.67	27.79
975	464	Shell-Thick	INVSLU	-0.6669	1.2424	-1.68	11.99
975	464	Shell-Thick	INVSLU	0.1568	2.8506	-1.23	11.99
975	464	Shell-Thick	INVSLU	0.2346	2.7785	-1.23	11.84
975	464	Shell-Thick	INVSLU	-0.5162	1.1828	-1.68	11.84
976	465	Shell-Thick	INVSLE	-0.3036	2.9978	-0.69	17.58
976	465	Shell-Thick	INVSLE	0.3567	5.3490	-0.51	17.58

976	465	Shell-Thick	INVSLE	0.5185	5.1737	-0.51	17.24
976	465	Shell-Thick	INVSLE	-0.2423	2.8426	-0.69	17.24
976	465	Shell-Thick	INVSLE	-0.4872	0.8658	-1.44	8.77
976	465	Shell-Thick	INVSLE	0.0907	2.0400	-1.05	8.77
976	465	Shell-Thick	INVSLE	0.1701	1.9695	-1.05	8.61
976	465	Shell-Thick	INVSLE	-0.3551	0.8075	-1.44	8.61
976	465	Shell-Thick	INVSLU	-0.4099	5.4700	-0.93	27.80
976	465	Shell-Thick	INVSLU	0.6650	9.1861	-0.68	27.80
976	465	Shell-Thick	INVSLU	0.9225	8.8894	-0.68	27.25
976	465	Shell-Thick	INVSLU	-0.3272	5.2026	-0.93	27.25
976	465	Shell-Thick	INVSLU	-0.7001	1.1689	-2.31	11.84
976	465	Shell-Thick	INVSLU	0.1225	2.7540	-1.69	11.84
976	465	Shell-Thick	INVSLU	0.2296	2.6589	-1.69	11.62
976	465	Shell-Thick	INVSLU	-0.4964	1.0901	-2.31	11.62
977	466	Shell-Thick	INVSLE	-0.3214	2.8196	-0.89	17.25
977	466	Shell-Thick	INVSLE	0.3047	5.1221	-0.65	17.25
977	466	Shell-Thick	INVSLE	0.5122	4.9082	-0.65	16.82
977	466	Shell-Thick	INVSLE	-0.2416	2.6303	-0.89	16.82
977	466	Shell-Thick	INVSLE	-0.5148	0.7943	-1.86	8.61
977	466	Shell-Thick	INVSLE	0.0630	1.9455	-1.36	8.61
977	466	Shell-Thick	INVSLE	0.1651	1.8598	-1.36	8.40
977	466	Shell-Thick	INVSLE	-0.3436	0.7237	-1.86	8.40
977	466	Shell-Thick	INVSLU	-0.4340	5.1682	-1.20	27.27
977	466	Shell-Thick	INVSLU	0.5850	8.8057	-0.88	27.27
977	466	Shell-Thick	INVSLU	0.9148	8.4433	-0.88	26.57
977	466	Shell-Thick	INVSLU	-0.3262	4.8414	-1.20	26.57
977	466	Shell-Thick	INVSLU	-0.7390	1.0723	-2.98	11.62
977	466	Shell-Thick	INVSLU	0.0850	2.6264	-2.18	11.62
977	466	Shell-Thick	INVSLU	0.2229	2.5108	-2.18	11.34
977	466	Shell-Thick	INVSLU	-0.4792	0.9769	-2.98	11.34
978	467	Shell-Thick	INVSLE	-0.3381	2.6031	-1.11	16.83
978	467	Shell-Thick	INVSLE	0.2440	4.8435	-0.82	16.83
978	467	Shell-Thick	INVSLE	0.4990	4.5960	-0.82	16.29
978	467	Shell-Thick	INVSLE	-0.2377	2.3834	-1.11	16.29
978	467	Shell-Thick	INVSLE	-0.5348	0.7078	-2.30	8.41
978	467	Shell-Thick	INVSLE	0.0307	1.8296	-1.69	8.41
978	467	Shell-Thick	INVSLE	0.1569	1.7310	-1.69	8.15
978	467	Shell-Thick	INVSLE	-0.3207	0.6266	-2.30	8.15
978	467	Shell-Thick	INVSLU	-0.4564	4.8011	-1.49	26.59
978	467	Shell-Thick	INVSLU	0.4913	8.3386	-1.10	26.59
978	467	Shell-Thick	INVSLU	0.8957	7.9185	-1.10	25.73
978	467	Shell-Thick	INVSLU	-0.3209	4.4206	-1.49	25.73
978	467	Shell-Thick	INVSLU	-0.7630	0.9555	-3.67	11.35
978	467	Shell-Thick	INVSLU	0.0415	2.4699	-2.70	11.35
978	467	Shell-Thick	INVSLU	0.2118	2.3368	-2.70	11.00
978	467	Shell-Thick	INVSLU	-0.4455	0.8459	-3.67	11.00
979	468	Shell-Thick	INVSLE	-0.3551	2.3526	-1.34	16.31
979	468	Shell-Thick	INVSLE	0.1864	4.5178	-0.99	16.31
979	468	Shell-Thick	INVSLE	0.4922	4.2441	-0.99	15.67
979	468	Shell-Thick	INVSLE	-0.2319	2.1095	-1.34	15.67
979	468	Shell-Thick	INVSLE	-0.5532	0.6082	-2.77	8.16
979	468	Shell-Thick	INVSLE	-0.0019	1.6941	-2.04	8.16
979	468	Shell-Thick	INVSLE	0.1502	1.5861	-2.04	7.85
979	468	Shell-Thick	INVSLE	-0.2926	0.5198	-2.77	7.85
979	468	Shell-Thick	INVSLU	-0.4793	4.3755	-1.81	25.76
979	468	Shell-Thick	INVSLU	0.4048	7.7922	-1.34	25.76
979	468	Shell-Thick	INVSLU	0.8887	7.3264	-1.34	24.74
979	468	Shell-Thick	INVSLU	-0.3131	3.9531	-1.81	24.74
979	468	Shell-Thick	INVSLU	-0.7830	0.8211	-4.42	11.01
979	468	Shell-Thick	INVSLU	-0.0026	2.2871	-3.26	11.01
979	468	Shell-Thick	INVSLU	0.2028	2.1412	-3.26	10.60
979	468	Shell-Thick	INVSLU	-0.4040	0.7017	-4.42	10.60
980	469	Shell-Thick	INVSLE	-0.3669	2.0764	-1.60	15.69
980	469	Shell-Thick	INVSLE	0.1254	4.1515	-1.19	15.69
980	469	Shell-Thick	INVSLE	0.4848	3.8587	-1.19	14.94
980	469	Shell-Thick	INVSLE	-0.2178	1.8150	-1.60	14.94
980	469	Shell-Thick	INVSLE	-0.5550	0.4994	-3.28	7.86
980	469	Shell-Thick	INVSLE	-0.0368	1.5421	-2.43	7.86
980	469	Shell-Thick	INVSLE	0.1434	1.4281	-2.43	7.50
980	469	Shell-Thick	INVSLE	-0.2419	0.4063	-3.28	7.50
980	469	Shell-Thick	INVSLU	-0.4954	3.9051	-2.16	24.77
980	469	Shell-Thick	INVSLU	0.3136	7.1774	-1.61	24.77
980	469	Shell-Thick	INVSLU	0.8807	6.6773	-1.61	23.58
980	469	Shell-Thick	INVSLU	-0.2698	3.4486	-2.16	23.58
980	469	Shell-Thick	INVSLU	-0.7774	0.6742	-5.23	10.61
980	469	Shell-Thick	INVSLU	-0.0496	2.0818	-3.86	10.61
980	469	Shell-Thick	INVSLU	0.1936	1.9279	-3.86	10.12
980	469	Shell-Thick	INVSLU	-0.3301	0.5486	-5.23	10.12

981	470	Shell-Thick	INVSLE	-0.3743	1.7803	-1.89	14.97
981	470	Shell-Thick	INVSLE	0.0757	3.7510	-1.42	14.97
981	470	Shell-Thick	INVSLE	0.4939	3.4507	-1.42	14.11
981	470	Shell-Thick	INVSLE	-0.1737	1.5120	-1.89	14.11
981	470	Shell-Thick	INVSLE	-0.5450	0.3842	-3.84	7.51
981	470	Shell-Thick	INVSLE	-0.0686	1.3764	-2.86	7.51
981	470	Shell-Thick	INVSLE	0.1428	1.2619	-2.86	7.09
981	470	Shell-Thick	INVSLE	-0.1956	0.2918	-3.84	7.09
981	470	Shell-Thick	INVSLU	-0.5053	3.3992	-2.56	23.62
981	470	Shell-Thick	INVSLU	0.2430	6.5045	-1.91	23.62
981	470	Shell-Thick	INVSLU	0.9010	5.9889	-1.91	22.24
981	470	Shell-Thick	INVSLU	-0.1484	2.9269	-2.56	22.24
981	470	Shell-Thick	INVSLU	-0.7613	0.5187	-6.10	10.13
981	470	Shell-Thick	INVSLU	-0.0926	1.8582	-4.53	10.13
981	470	Shell-Thick	INVSLU	0.1928	1.7035	-4.53	9.57
981	470	Shell-Thick	INVSLU	-0.2640	0.3939	-6.10	9.57
982	471	Shell-Thick	INVSLE	-0.3696	1.4774	-2.23	14.14
982	471	Shell-Thick	INVSLE	0.0318	3.3268	-1.68	14.14
982	471	Shell-Thick	INVSLE	0.5136	3.0279	-1.68	13.15
982	471	Shell-Thick	INVSLE	-0.0659	1.2083	-2.23	13.15
982	471	Shell-Thick	INVSLE	-0.5041	0.2687	-4.47	7.10
982	471	Shell-Thick	INVSLE	-0.0980	1.2020	-3.34	7.10
982	471	Shell-Thick	INVSLE	0.1480	1.0916	-3.34	6.62
982	471	Shell-Thick	INVSLE	-0.1562	0.1805	-4.47	6.62
982	471	Shell-Thick	INVSLU	-0.4989	2.8790	-3.00	22.30
982	471	Shell-Thick	INVSLU	0.1823	5.7907	-2.26	22.30
982	471	Shell-Thick	INVSLU	0.9376	5.2734	-2.26	20.73
982	471	Shell-Thick	INVSLU	0.0389	2.4001	-3.00	20.73
982	471	Shell-Thick	INVSLU	-0.7007	0.3628	-7.07	9.58
982	471	Shell-Thick	INVSLU	-0.1323	1.6227	-5.28	9.58
982	471	Shell-Thick	INVSLU	0.1999	1.4737	-5.28	8.93
982	471	Shell-Thick	INVSLU	-0.2109	0.2437	-7.07	8.93
983	472	Shell-Thick	INVSLE	-0.3511	1.1751	-2.60	13.19
983	472	Shell-Thick	INVSLE	0.0117	2.8870	-1.98	13.19
983	472	Shell-Thick	INVSLE	0.5654	2.6063	-1.98	12.07
983	472	Shell-Thick	INVSLE	0.0793	0.9216	-2.60	12.07
983	472	Shell-Thick	INVSLE	-0.4347	0.1571	-5.17	6.63
983	472	Shell-Thick	INVSLE	-0.1181	1.0229	-3.89	6.63
983	472	Shell-Thick	INVSLE	0.1678	0.9247	-3.89	6.08
983	472	Shell-Thick	INVSLE	-0.0975	0.0808	-5.17	6.08
983	472	Shell-Thick	INVSLU	-0.4740	2.3556	-3.52	20.80
983	472	Shell-Thick	INVSLU	0.1621	5.0487	-2.67	20.80
983	472	Shell-Thick	INVSLU	1.0265	4.5563	-2.67	19.01
983	472	Shell-Thick	INVSLU	0.2843	1.8966	-3.52	19.01
983	472	Shell-Thick	INVSLU	-0.5994	0.2121	-8.15	8.95
983	472	Shell-Thick	INVSLU	-0.1594	1.3809	-6.12	8.95
983	472	Shell-Thick	INVSLU	0.2265	1.2483	-6.12	8.21
983	472	Shell-Thick	INVSLU	-0.1316	0.1091	-8.15	8.21
984	473	Shell-Thick	INVSLE	-0.3080	0.8920	-3.05	12.12
984	473	Shell-Thick	INVSLE	0.0131	2.4471	-2.33	12.12
984	473	Shell-Thick	INVSLE	0.6468	2.1943	-2.33	10.85
984	473	Shell-Thick	INVSLE	0.2902	0.6605	-3.05	10.85
984	473	Shell-Thick	INVSLE	-0.3127	0.0580	-5.97	6.10
984	473	Shell-Thick	INVSLE	-0.1269	0.8464	-4.53	6.10
984	473	Shell-Thick	INVSLE	0.2046	0.7661	-4.53	5.47
984	473	Shell-Thick	INVSLE	-0.0062	-0.0020	-5.97	5.47
984	473	Shell-Thick	INVSLU	-0.3182	1.8590	-4.11	19.10
984	473	Shell-Thick	INVSLU	0.1756	4.3033	-3.15	19.10
984	473	Shell-Thick	INVSLU	1.1597	3.8504	-3.15	17.09
984	473	Shell-Thick	INVSLU	0.6339	1.4288	-4.11	17.09
984	473	Shell-Thick	INVSLU	-0.4229	0.0784	-9.37	8.24
984	473	Shell-Thick	INVSLU	-0.1714	1.1426	-7.07	8.24
984	473	Shell-Thick	INVSLU	0.2762	1.0343	-7.07	7.39
984	473	Shell-Thick	INVSLU	-0.0083	-0.0027	-9.37	7.39
985	474	Shell-Thick	INVSLE	-0.1353	0.6361	-3.57	10.92
985	474	Shell-Thick	INVSLE	0.0578	2.0158	-2.76	10.92
985	474	Shell-Thick	INVSLE	0.7848	1.8124	-2.76	9.49
985	474	Shell-Thick	INVSLE	0.5703	0.4479	-3.57	9.49
985	474	Shell-Thick	INVSLE	-0.2341	-0.0230	-6.89	5.50
985	474	Shell-Thick	INVSLE	-0.1146	0.6778	-5.27	5.50
985	474	Shell-Thick	INVSLE	0.2711	0.6259	-5.27	4.79
985	474	Shell-Thick	INVSLE	0.1252	-0.0567	-6.89	4.79
985	474	Shell-Thick	INVSLU	-0.0207	1.4004	-4.82	17.20
985	474	Shell-Thick	INVSLU	0.2576	3.5674	-3.72	17.20
985	474	Shell-Thick	INVSLU	1.3806	3.1884	-3.72	14.95
985	474	Shell-Thick	INVSLU	1.0865	1.0332	-4.82	14.95
985	474	Shell-Thick	INVSLU	-0.3160	-0.0310	-10.75	7.42
985	474	Shell-Thick	INVSLU	-0.1547	0.9150	-8.18	7.42

985	474	Shell-Thick	INVSLU	0.3660	0.8449	-8.18	6.47
985	474	Shell-Thick	INVSLU	0.1690	-0.0766	-10.75	6.47
986	475	Shell-Thick	INVSLE	0.1261	0.4311	-4.19	9.57
986	475	Shell-Thick	INVSLE	0.1496	1.6134	-3.28	9.57
986	475	Shell-Thick	INVSLE	0.9845	1.4681	-3.28	7.98
986	475	Shell-Thick	INVSLE	0.9546	0.2909	-4.19	7.98
986	475	Shell-Thick	INVSLE	-0.1134	-0.0746	-7.97	4.82
986	475	Shell-Thick	INVSLE	-0.0739	0.5270	-6.15	4.82
986	475	Shell-Thick	INVSLE	0.3762	0.5090	-6.15	4.02
986	475	Shell-Thick	INVSLE	0.3160	-0.0783	-7.97	4.02
986	475	Shell-Thick	INVSLU	0.4038	1.0175	-5.66	15.07
986	475	Shell-Thick	INVSLU	0.4089	2.8732	-4.43	15.07
986	475	Shell-Thick	INVSLU	1.6898	2.5803	-4.43	12.57
986	475	Shell-Thick	INVSLU	1.6951	0.7189	-5.66	12.57
986	475	Shell-Thick	INVSLU	-0.1531	-0.1007	-12.35	6.51
986	475	Shell-Thick	INVSLU	-0.0998	0.7114	-9.49	6.51
986	475	Shell-Thick	INVSLU	0.5079	0.6871	-9.49	5.43
986	475	Shell-Thick	INVSLU	0.4266	-0.1056	-12.35	5.43
987	476	Shell-Thick	INVSLE	0.4822	0.2830	-4.94	8.07
987	476	Shell-Thick	INVSLE	0.3134	1.2473	-3.93	8.07
987	476	Shell-Thick	INVSLE	1.2786	1.1826	-3.93	6.31
987	476	Shell-Thick	INVSLE	1.4564	0.2132	-4.94	6.31
987	476	Shell-Thick	INVSLE	0.0685	-0.0915	-9.24	4.06
987	476	Shell-Thick	INVSLE	0.0101	0.3995	-7.23	4.06
987	476	Shell-Thick	INVSLE	0.5394	0.4256	-7.23	3.17
987	476	Shell-Thick	INVSLE	0.5837	-0.0554	-9.24	3.17
987	476	Shell-Thick	INVSLU	0.9620	0.7172	-6.67	12.72
987	476	Shell-Thick	INVSLU	0.6652	2.2305	-5.30	12.72
987	476	Shell-Thick	INVSLU	2.1358	2.0604	-5.30	9.95
987	476	Shell-Thick	INVSLU	2.4684	0.5246	-6.67	9.95
987	476	Shell-Thick	INVSLU	0.0925	-0.1235	-14.22	5.48
987	476	Shell-Thick	INVSLU	0.0136	0.5393	-11.06	5.48
987	476	Shell-Thick	INVSLU	0.7282	0.5745	-11.06	4.28
987	476	Shell-Thick	INVSLU	0.7880	-0.0747	-14.22	4.28
988	477	Shell-Thick	INVSLE	2.9794	0.3943	13.54	-0.11
988	477	Shell-Thick	INVSLE	1.8482	0.5712	10.39	-0.11
988	477	Shell-Thick	INVSLE	0.4700	0.3609	10.39	2.55
988	477	Shell-Thick	INVSLE	1.5399	0.2236	13.54	2.55
988	477	Shell-Thick	INVSLE	1.7219	0.2395	7.94	-0.21
988	477	Shell-Thick	INVSLE	1.1142	0.3277	6.26	-0.21
988	477	Shell-Thick	INVSLE	0.2839	0.1874	6.26	1.37
988	477	Shell-Thick	INVSLE	0.8794	0.1066	7.94	1.37
988	477	Shell-Thick	INVSLU	4.4377	0.5738	20.02	-0.15
988	477	Shell-Thick	INVSLU	2.6993	0.8536	15.17	-0.15
988	477	Shell-Thick	INVSLU	0.6858	0.5620	15.17	3.92
988	477	Shell-Thick	INVSLU	2.3058	0.3593	20.02	3.92
988	477	Shell-Thick	INVSLU	2.3246	0.3234	10.72	-0.33
988	477	Shell-Thick	INVSLU	1.5042	0.4424	8.45	-0.33
988	477	Shell-Thick	INVSLU	0.3833	0.2530	8.45	1.84
988	477	Shell-Thick	INVSLU	1.1872	0.1439	10.72	1.84
989	478	Shell-Thick	INVSLE	2.2367	0.2134	11.19	2.39
989	478	Shell-Thick	INVSLE	1.5429	0.7250	8.15	2.39
989	478	Shell-Thick	INVSLE	0.4216	0.7401	8.15	5.05
989	478	Shell-Thick	INVSLE	1.0790	0.2513	11.19	5.05
989	478	Shell-Thick	INVSLE	1.1721	0.0963	6.42	1.29
989	478	Shell-Thick	INVSLE	0.8345	0.3663	4.78	1.29
989	478	Shell-Thick	INVSLE	0.1741	0.3302	4.78	2.74
989	478	Shell-Thick	INVSLE	0.5133	0.0584	6.42	2.74
989	478	Shell-Thick	INVSLU	3.4712	0.3491	16.73	3.66
989	478	Shell-Thick	INVSLU	2.3643	1.1410	12.07	3.66
989	478	Shell-Thick	INVSLU	0.7086	1.2154	12.07	7.74
989	478	Shell-Thick	INVSLU	1.7351	0.4750	16.73	7.74
989	478	Shell-Thick	INVSLU	1.5823	0.1300	8.67	1.75
989	478	Shell-Thick	INVSLU	1.1265	0.4945	6.45	1.75
989	478	Shell-Thick	INVSLU	0.2351	0.4458	6.45	3.69
989	478	Shell-Thick	INVSLU	0.6929	0.0789	8.67	3.69
990	479	Shell-Thick	INVSLE	1.6420	0.2219	9.34	4.90
990	479	Shell-Thick	INVSLE	1.2514	1.0481	6.55	4.90
990	479	Shell-Thick	INVSLE	0.3215	1.2186	6.55	7.34
990	479	Shell-Thick	INVSLE	0.7008	0.3986	9.34	7.34
990	479	Shell-Thick	INVSLE	0.7778	0.0442	5.24	2.67
990	479	Shell-Thick	INVSLE	0.6195	0.4863	3.73	2.67
990	479	Shell-Thick	INVSLE	0.0845	0.5278	3.73	3.98
990	479	Shell-Thick	INVSLE	0.2563	0.0758	5.24	3.98
990	479	Shell-Thick	INVSLU	2.6442	0.4278	14.09	7.50
990	479	Shell-Thick	INVSLU	1.9841	1.6994	9.82	7.50
990	479	Shell-Thick	INVSLU	0.5963	2.0196	9.82	11.23
990	479	Shell-Thick	INVSLU	1.2162	0.7729	14.09	11.23

990	479	Shell-Thick	INVSLU	1.0500	0.0597	7.07	3.60
990	479	Shell-Thick	INVSLU	0.8363	0.6566	5.04	3.60
990	479	Shell-Thick	INVSLU	0.1140	0.7125	5.04	5.38
990	479	Shell-Thick	INVSLU	0.3460	0.1024	7.07	5.38
991	480	Shell-Thick	INVSLE	1.1865	0.3741	7.86	7.21
991	480	Shell-Thick	INVSLE	1.0509	1.4861	5.39	7.21
991	480	Shell-Thick	INVSLE	0.2664	1.7747	5.39	9.38
991	480	Shell-Thick	INVSLE	0.4100	0.6561	7.86	9.38
991	480	Shell-Thick	INVSLE	0.5000	0.0676	4.32	3.92
991	480	Shell-Thick	INVSLE	0.4859	0.6650	3.00	3.92
991	480	Shell-Thick	INVSLE	0.0438	0.7680	3.00	5.08
991	480	Shell-Thick	INVSLE	0.0807	0.1547	4.32	5.08
991	480	Shell-Thick	INVSLU	1.9825	0.7294	11.97	11.03
991	480	Shell-Thick	INVSLU	1.7062	2.4383	8.17	11.03
991	480	Shell-Thick	INVSLU	0.5244	2.9422	8.17	14.36
991	480	Shell-Thick	INVSLU	0.7917	1.2375	11.97	14.36
991	480	Shell-Thick	INVSLU	0.6749	0.0913	5.83	5.30
991	480	Shell-Thick	INVSLU	0.6559	0.8977	4.05	5.30
991	480	Shell-Thick	INVSLU	0.0591	1.0367	4.05	6.86
991	480	Shell-Thick	INVSLU	0.1090	0.2088	5.83	6.86
992	481	Shell-Thick	INVSLE	0.8558	0.6452	6.68	9.27
992	481	Shell-Thick	INVSLE	0.9435	2.0102	4.51	9.27
992	481	Shell-Thick	INVSLE	0.2705	2.3909	4.51	11.18
992	481	Shell-Thick	INVSLE	0.2106	1.0062	6.68	11.18
992	481	Shell-Thick	INVSLE	0.3147	0.1552	3.60	5.03
992	481	Shell-Thick	INVSLE	0.4150	0.8885	2.45	5.03
992	481	Shell-Thick	INVSLE	0.0433	1.0402	2.45	6.03
992	481	Shell-Thick	INVSLE	-0.0257	0.2854	3.60	6.03
992	481	Shell-Thick	INVSLU	1.4833	1.2135	10.26	14.19
992	481	Shell-Thick	INVSLU	1.5563	3.3110	6.90	14.19
992	481	Shell-Thick	INVSLU	0.5339	3.9572	6.90	17.14
992	481	Shell-Thick	INVSLU	0.4847	1.8422	10.26	17.14
992	481	Shell-Thick	INVSLU	0.4249	0.2095	4.85	6.79
992	481	Shell-Thick	INVSLU	0.5602	1.1995	3.31	6.79
992	481	Shell-Thick	INVSLU	0.0585	1.4042	3.31	8.15
992	481	Shell-Thick	INVSLU	-0.0347	0.3853	4.85	8.15
993	482	Shell-Thick	INVSLE	0.6364	1.0090	5.72	11.09
993	482	Shell-Thick	INVSLE	0.8963	2.5984	3.81	11.09
993	482	Shell-Thick	INVSLE	0.3146	3.0518	3.81	12.76
993	482	Shell-Thick	INVSLE	0.0958	1.4338	5.72	12.76
993	482	Shell-Thick	INVSLE	0.1992	0.2933	3.02	6.00
993	482	Shell-Thick	INVSLE	0.3847	1.1456	2.03	6.00
993	482	Shell-Thick	INVSLE	0.0690	1.3345	2.03	6.87
993	482	Shell-Thick	INVSLE	-0.0798	0.4572	3.02	6.87
993	482	Shell-Thick	INVSLU	1.1433	1.8390	8.85	17.00
993	482	Shell-Thick	INVSLU	1.4895	4.2832	5.88	17.00
993	482	Shell-Thick	INVSLU	0.5993	5.0431	5.88	19.60
993	482	Shell-Thick	INVSLU	0.2996	2.5663	8.85	19.60
993	482	Shell-Thick	INVSLU	0.2690	0.3959	4.08	8.10
993	482	Shell-Thick	INVSLU	0.5193	1.5465	2.74	8.10
993	482	Shell-Thick	INVSLU	0.0931	1.8016	2.74	9.27
993	482	Shell-Thick	INVSLU	-0.1078	0.6172	4.08	9.27
994	483	Shell-Thick	INVSLE	0.4913	1.4475	4.91	12.70
994	483	Shell-Thick	INVSLE	0.9021	3.2347	3.24	12.70
994	483	Shell-Thick	INVSLE	0.3949	3.7326	3.24	14.16
994	483	Shell-Thick	INVSLE	0.0380	1.9085	4.91	14.16
994	483	Shell-Thick	INVSLE	0.1303	0.4704	2.55	6.84
994	483	Shell-Thick	INVSLE	0.3837	1.4263	1.70	6.84
994	483	Shell-Thick	INVSLE	0.1129	1.6382	1.70	7.59
994	483	Shell-Thick	INVSLE	-0.0994	0.6544	2.55	7.59
994	483	Shell-Thick	INVSLU	0.9100	2.5806	7.65	19.49
994	483	Shell-Thick	INVSLU	1.5033	5.3317	5.03	19.49
994	483	Shell-Thick	INVSLU	0.7218	6.1614	5.03	21.78
994	483	Shell-Thick	INVSLU	0.1974	3.3628	7.65	21.78
994	483	Shell-Thick	INVSLU	0.1759	0.6350	3.45	9.23
994	483	Shell-Thick	INVSLU	0.5179	1.9255	2.29	9.23
994	483	Shell-Thick	INVSLU	0.1525	2.2116	2.29	10.24
994	483	Shell-Thick	INVSLU	-0.1342	0.8834	3.45	10.24
995	484	Shell-Thick	INVSLE	0.4128	1.9305	4.23	14.11
995	484	Shell-Thick	INVSLE	0.9333	3.8932	2.77	14.11
995	484	Shell-Thick	INVSLE	0.4908	4.4173	2.77	15.39
995	484	Shell-Thick	INVSLE	0.0311	2.4131	4.23	15.39
995	484	Shell-Thick	INVSLE	0.0966	0.6711	2.17	7.57
995	484	Shell-Thick	INVSLE	0.3984	1.7178	1.42	7.57
995	484	Shell-Thick	INVSLE	0.1655	1.9427	1.42	8.22
995	484	Shell-Thick	INVSLE	-0.0934	0.8668	2.17	8.22
995	484	Shell-Thick	INVSLU	0.7794	3.3909	6.63	21.70
995	484	Shell-Thick	INVSLU	1.5535	6.4159	4.32	21.70

995	484	Shell-Thick	INVSLU	0.8680	7.2870	4.32	23.71
995	484	Shell-Thick	INVSLU	0.1754	4.2062	6.63	23.71
995	484	Shell-Thick	INVSLU	0.1304	0.9060	2.93	10.22
995	484	Shell-Thick	INVSLU	0.5378	2.3190	1.92	10.22
995	484	Shell-Thick	INVSLU	0.2234	2.6226	1.92	11.09
995	484	Shell-Thick	INVSLU	-0.1261	1.1702	2.93	11.09
996	485	Shell-Thick	INVSLE	0.3705	2.4406	3.64	15.35
996	485	Shell-Thick	INVSLE	0.9910	4.5578	2.36	15.35
996	485	Shell-Thick	INVSLE	0.6040	5.0855	2.36	16.48
996	485	Shell-Thick	INVSLE	0.0502	2.9229	3.64	16.48
996	485	Shell-Thick	INVSLE	0.0833	0.8855	1.84	8.20
996	485	Shell-Thick	INVSLE	0.4255	2.0113	1.20	8.20
996	485	Shell-Thick	INVSLE	0.2244	2.2384	1.20	8.76
996	485	Shell-Thick	INVSLE	-0.0738	1.0828	1.84	8.76
996	485	Shell-Thick	INVSLU	0.7037	4.2438	5.73	23.65
996	485	Shell-Thick	INVSLU	1.6468	7.5108	3.71	23.65
996	485	Shell-Thick	INVSLU	1.0442	8.3870	3.71	25.42
996	485	Shell-Thick	INVSLU	0.1940	5.0568	5.73	25.42
996	485	Shell-Thick	INVSLU	0.1124	1.1955	2.49	11.07
996	485	Shell-Thick	INVSLU	0.5744	2.7153	1.62	11.07
996	485	Shell-Thick	INVSLU	0.3030	3.0218	1.62	11.83
996	485	Shell-Thick	INVSLU	-0.0997	1.4618	2.49	11.83
997	486	Shell-Thick	INVSLE	0.3651	2.9538	3.13	16.44
997	486	Shell-Thick	INVSLE	1.0538	5.2076	2.01	16.44
997	486	Shell-Thick	INVSLE	0.7172	5.7243	2.01	17.42
997	486	Shell-Thick	INVSLE	0.0961	3.4246	3.13	17.42
997	486	Shell-Thick	INVSLE	0.0866	1.1024	1.56	8.75
997	486	Shell-Thick	INVSLE	0.4561	2.2973	1.01	8.75
997	486	Shell-Thick	INVSLE	0.2831	2.5195	1.01	9.24
997	486	Shell-Thick	INVSLE	-0.0434	1.2955	1.56	9.24
997	486	Shell-Thick	INVSLU	0.6880	5.1007	4.94	25.36
997	486	Shell-Thick	INVSLU	1.7469	8.5825	3.18	25.36
997	486	Shell-Thick	INVSLU	1.2205	9.4407	3.18	26.91
997	486	Shell-Thick	INVSLU	0.2580	5.8935	4.94	26.91
997	486	Shell-Thick	INVSLU	0.1169	1.4882	2.11	11.82
997	486	Shell-Thick	INVSLU	0.6157	3.1013	1.36	11.82
997	486	Shell-Thick	INVSLU	0.3822	3.4013	1.36	12.47
997	486	Shell-Thick	INVSLU	-0.0586	1.7489	2.11	12.47
998	487	Shell-Thick	INVSLE	0.3733	3.4566	2.67	17.40
998	487	Shell-Thick	INVSLE	1.1274	5.8298	1.71	17.40
998	487	Shell-Thick	INVSLE	0.8356	6.3199	1.71	18.24
998	487	Shell-Thick	INVSLE	0.1492	3.9008	2.67	18.24
998	487	Shell-Thick	INVSLE	0.0969	1.3148	1.32	9.23
998	487	Shell-Thick	INVSLE	0.4906	2.5697	0.85	9.23
998	487	Shell-Thick	INVSLE	0.3421	2.7801	0.85	9.64
998	487	Shell-Thick	INVSLE	-0.0102	1.4973	1.32	9.64
998	487	Shell-Thick	INVSLU	0.6937	5.9402	4.24	26.87
998	487	Shell-Thick	INVSLU	1.8658	9.6102	2.71	26.87
998	487	Shell-Thick	INVSLU	1.4078	10.4246	2.71	28.21
998	487	Shell-Thick	INVSLU	0.3340	6.6880	4.24	28.21
998	487	Shell-Thick	INVSLU	0.1308	1.7750	1.78	12.46
998	487	Shell-Thick	INVSLU	0.6623	3.4691	1.15	12.46
998	487	Shell-Thick	INVSLU	0.4619	3.7532	1.15	13.02
998	487	Shell-Thick	INVSLU	-0.0137	2.0214	1.78	13.02
999	488	Shell-Thick	INVSLE	0.3997	3.9327	2.26	18.22
999	488	Shell-Thick	INVSLE	1.1946	6.4100	1.44	18.22
999	488	Shell-Thick	INVSLE	0.9449	6.8629	1.44	18.94
999	488	Shell-Thick	INVSLE	0.2139	4.3423	2.26	18.94
999	488	Shell-Thick	INVSLE	0.1140	1.5158	1.11	9.64
999	488	Shell-Thick	INVSLE	0.5226	2.8226	0.71	9.64
999	488	Shell-Thick	INVSLE	0.3966	3.0165	0.71	9.99
999	488	Shell-Thick	INVSLE	0.0262	1.6839	1.11	9.99
999	488	Shell-Thick	INVSLU	0.7310	6.7353	3.59	28.18
999	488	Shell-Thick	INVSLU	1.9739	10.5700	2.28	28.18
999	488	Shell-Thick	INVSLU	1.5808	11.3232	2.28	29.33
999	488	Shell-Thick	INVSLU	0.4316	7.4251	3.59	29.33
999	488	Shell-Thick	INVSLU	0.1539	2.0463	1.50	13.01
999	488	Shell-Thick	INVSLU	0.7055	3.8105	0.95	13.01
999	488	Shell-Thick	INVSLU	0.5354	4.0723	0.95	13.49
999	488	Shell-Thick	INVSLU	0.0354	2.2733	1.50	13.49
1000	489	Shell-Thick	INVSLE	0.4265	4.3724	1.89	18.93
1000	489	Shell-Thick	INVSLE	1.2629	6.9389	1.19	18.93
1000	489	Shell-Thick	INVSLE	1.0519	7.3446	1.19	19.54
1000	489	Shell-Thick	INVSLE	0.2749	4.7378	1.89	19.54
1000	489	Shell-Thick	INVSLE	0.1312	1.7010	0.92	9.99
1000	489	Shell-Thick	INVSLE	0.5539	3.0520	0.58	9.99
1000	489	Shell-Thick	INVSLE	0.4482	3.2252	0.58	10.28
1000	489	Shell-Thick	INVSLE	0.0601	1.8508	0.92	10.28

1000	489	Shell-Thick	INVSLU	0.7690	7.4702	3.01	29.31
1000	489	Shell-Thick	INVSLU	2.0851	11.4464	1.90	29.31
1000	489	Shell-Thick	INVSLU	1.7519	12.1215	1.90	30.28
1000	489	Shell-Thick	INVSLU	0.5240	8.0857	3.01	30.28
1000	489	Shell-Thick	INVSLU	0.1771	2.2963	1.24	13.48
1000	489	Shell-Thick	INVSLU	0.7478	4.1201	0.79	13.48
1000	489	Shell-Thick	INVSLU	0.6051	4.3540	0.79	13.88
1000	489	Shell-Thick	INVSLU	0.0812	2.4986	1.24	13.88
1001	490	Shell-Thick	INVSLE	0.4600	4.7653	1.54	19.53
1001	490	Shell-Thick	INVSLE	1.3185	7.4075	0.97	19.53
1001	490	Shell-Thick	INVSLE	1.1445	7.7586	0.97	20.03
1001	490	Shell-Thick	INVSLE	0.3382	5.0812	1.54	20.03
1001	490	Shell-Thick	INVSLE	0.1498	1.8660	0.75	10.28
1001	490	Shell-Thick	INVSLE	0.5798	3.2542	0.47	10.28
1001	490	Shell-Thick	INVSLE	0.4931	3.4038	0.47	10.52
1001	490	Shell-Thick	INVSLE	0.0931	1.9953	0.75	10.52
1001	490	Shell-Thick	INVSLU	0.8197	8.1274	2.46	30.26
1001	490	Shell-Thick	INVSLU	2.1752	12.2236	1.55	30.26
1001	490	Shell-Thick	INVSLU	1.9000	12.8085	1.55	31.06
1001	490	Shell-Thick	INVSLU	0.6223	8.6596	2.46	31.06
1001	490	Shell-Thick	INVSLU	0.2022	2.5191	1.01	13.88
1001	490	Shell-Thick	INVSLU	0.7827	4.3932	0.64	13.88
1001	490	Shell-Thick	INVSLU	0.6656	4.5951	0.64	14.20
1001	490	Shell-Thick	INVSLU	0.1257	2.6937	1.01	14.20
1002	491	Shell-Thick	INVSLE	0.4862	5.1049	1.22	20.03
1002	491	Shell-Thick	INVSLE	1.3690	7.8094	0.77	20.03
1002	491	Shell-Thick	INVSLE	1.2300	8.0998	0.77	20.42
1002	491	Shell-Thick	INVSLE	0.3915	5.3655	1.22	20.42
1002	491	Shell-Thick	INVSLE	0.1648	2.0082	0.59	10.52
1002	491	Shell-Thick	INVSLE	0.6023	3.4271	0.37	10.52
1002	491	Shell-Thick	INVSLE	0.5334	3.5505	0.37	10.71
1002	491	Shell-Thick	INVSLE	0.1210	2.1148	0.59	10.71
1002	491	Shell-Thick	INVSLU	0.8588	8.6959	1.95	31.05
1002	491	Shell-Thick	INVSLU	2.2580	12.8912	1.22	31.05
1002	491	Shell-Thick	INVSLU	2.0378	13.3753	1.22	31.68
1002	491	Shell-Thick	INVSLU	0.7051	9.1351	1.95	31.68
1002	491	Shell-Thick	INVSLU	0.2225	2.7111	0.79	14.20
1002	491	Shell-Thick	INVSLU	0.8131	4.6265	0.50	14.20
1002	491	Shell-Thick	INVSLU	0.7201	4.7932	0.50	14.46
1002	491	Shell-Thick	INVSLU	0.1634	2.8549	0.79	14.46
1003	492	Shell-Thick	INVSLE	0.5117	5.3850	0.91	20.42
1003	492	Shell-Thick	INVSLE	1.4032	8.1390	0.57	20.42
1003	492	Shell-Thick	INVSLE	1.2984	8.3643	0.57	20.72
1003	492	Shell-Thick	INVSLE	0.4415	5.5870	0.91	20.72
1003	492	Shell-Thick	INVSLE	0.1782	2.1252	0.44	10.71
1003	492	Shell-Thick	INVSLE	0.6178	3.5684	0.28	10.71
1003	492	Shell-Thick	INVSLE	0.5661	3.6640	0.28	10.85
1003	492	Shell-Thick	INVSLE	0.1459	2.2077	0.44	10.85
1003	492	Shell-Thick	INVSLU	0.8983	9.1651	1.46	31.68
1003	492	Shell-Thick	INVSLU	2.3139	13.4392	0.92	31.68
1003	492	Shell-Thick	INVSLU	2.1476	13.8150	0.92	32.16
1003	492	Shell-Thick	INVSLU	0.7842	9.5057	1.46	32.16
1003	492	Shell-Thick	INVSLU	0.2406	2.8691	0.59	14.46
1003	492	Shell-Thick	INVSLU	0.8341	4.8173	0.37	14.46
1003	492	Shell-Thick	INVSLU	0.7642	4.9463	0.37	14.65
1003	492	Shell-Thick	INVSLU	0.1970	2.9804	0.59	14.65
1004	493	Shell-Thick	INVSLE	0.5254	5.6016	0.62	20.72
1004	493	Shell-Thick	INVSLE	1.4285	8.3926	0.39	20.72
1004	493	Shell-Thick	INVSLE	1.3567	8.5495	0.39	20.92
1004	493	Shell-Thick	INVSLE	0.4783	5.7419	0.62	20.92
1004	493	Shell-Thick	INVSLE	0.1862	2.2155	0.30	10.85
1004	493	Shell-Thick	INVSLE	0.6287	3.6767	0.19	10.85
1004	493	Shell-Thick	INVSLE	0.5933	3.7432	0.19	10.95
1004	493	Shell-Thick	INVSLE	0.1645	2.2727	0.30	10.95
1004	493	Shell-Thick	INVSLU	0.9189	9.5282	1.00	32.15
1004	493	Shell-Thick	INVSLU	2.3560	13.8612	0.62	32.15
1004	493	Shell-Thick	INVSLU	2.2420	14.1230	0.62	32.48
1004	493	Shell-Thick	INVSLU	0.8421	9.7648	1.00	32.48
1004	493	Shell-Thick	INVSLU	0.2513	2.9909	0.40	14.65
1004	493	Shell-Thick	INVSLU	0.8487	4.9636	0.25	14.65
1004	493	Shell-Thick	INVSLU	0.8009	5.0533	0.25	14.78
1004	493	Shell-Thick	INVSLU	0.2221	3.0681	0.40	14.78
1005	494	Shell-Thick	INVSLE	0.5343	5.7513	0.34	20.92
1005	494	Shell-Thick	INVSLE	1.4357	8.5670	0.21	20.92
1005	494	Shell-Thick	INVSLE	1.3965	8.6533	0.21	21.03
1005	494	Shell-Thick	INVSLE	0.5088	5.8283	0.34	21.03
1005	494	Shell-Thick	INVSLE	0.1908	2.2777	0.16	10.95
1005	494	Shell-Thick	INVSLE	0.6317	3.7512	0.10	10.95

1005	494 Shell-Thick	INVSLE	0.6124	3.7877	0.10	11.00
1005	494 Shell-Thick	INVSLE	0.1791	2.3091	0.16	11.00
1005	494 Shell-Thick	INVSLU	0.9327	9.7794	0.54	32.48
1005	494 Shell-Thick	INVSLU	2.3681	14.1517	0.34	32.48
1005	494 Shell-Thick	INVSLU	2.3058	14.2956	0.34	32.66
1005	494 Shell-Thick	INVSLU	0.8911	9.9093	0.54	32.66
1005	494 Shell-Thick	INVSLU	0.2576	3.0749	0.22	14.78
1005	494 Shell-Thick	INVSLU	0.8528	5.0641	0.14	14.78
1005	494 Shell-Thick	INVSLU	0.8267	5.1133	0.14	14.86
1005	494 Shell-Thick	INVSLU	0.2418	3.1172	0.22	14.86
1006	495 Shell-Thick	INVSLE	0.5293	5.8323	5.962E-02	21.03
1006	495 Shell-Thick	INVSLE	1.4321	8.6606	3.719E-02	21.03
1006	495 Shell-Thick	INVSLE	1.4251	8.6750	3.719E-02	21.05
1006	495 Shell-Thick	INVSLE	0.5249	5.8449	5.962E-02	21.05
1006	495 Shell-Thick	INVSLE	0.1891	2.3112	2.849E-02	11.00
1006	495 Shell-Thick	INVSLE	0.6292	3.7909	1.781E-02	11.00
1006	495 Shell-Thick	INVSLE	0.6258	3.7971	1.781E-02	11.01
1006	495 Shell-Thick	INVSLE	0.1871	2.3163	2.849E-02	11.01
1006	495 Shell-Thick	INVSLU	0.9237	9.9155	9.573E-02	32.66
1006	495 Shell-Thick	INVSLU	2.3631	14.3075	5.968E-02	32.66
1006	495 Shell-Thick	INVSLU	2.3519	14.3316	5.968E-02	32.69
1006	495 Shell-Thick	INVSLU	0.9166	9.9368	9.573E-02	32.69
1006	495 Shell-Thick	INVSLU	0.2553	3.1201	3.846E-02	14.86
1006	495 Shell-Thick	INVSLU	0.8494	5.1178	2.404E-02	14.86
1006	495 Shell-Thick	INVSLU	0.8448	5.1260	2.404E-02	14.87
1006	495 Shell-Thick	INVSLU	0.2525	3.1270	3.846E-02	14.87
1007	496 Shell-Thick	INVSLE	0.5174	5.8434	-0.10	21.05
1007	496 Shell-Thick	INVSLE	1.4096	8.6719	-6.525E-02	21.05
1007	496 Shell-Thick	INVSLE	1.4347	8.6144	-6.525E-02	20.98
1007	496 Shell-Thick	INVSLE	0.5341	5.7915	-0.10	20.98
1007	496 Shell-Thick	INVSLE	0.1833	2.3155	-0.22	11.01
1007	496 Shell-Thick	INVSLE	0.6186	3.7957	-0.14	11.01
1007	496 Shell-Thick	INVSLE	0.6310	3.7713	-0.14	10.98
1007	496 Shell-Thick	INVSLE	0.1909	2.2943	-0.22	10.98
1007	496 Shell-Thick	INVSLU	0.9049	9.9345	-0.14	32.69
1007	496 Shell-Thick	INVSLU	2.3269	14.3266	-8.809E-02	32.69
1007	496 Shell-Thick	INVSLU	2.3667	14.2305	-8.809E-02	32.57
1007	496 Shell-Thick	INVSLU	0.9321	9.8470	-0.14	32.57
1007	496 Shell-Thick	INVSLU	0.2474	3.1259	-0.35	14.87
1007	496 Shell-Thick	INVSLU	0.8351	5.1242	-0.22	14.87
1007	496 Shell-Thick	INVSLU	0.8518	5.0913	-0.22	14.82
1007	496 Shell-Thick	INVSLU	0.2577	3.0974	-0.35	14.82
1008	497 Shell-Thick	INVSLE	0.4910	5.7845	-0.24	20.98
1008	497 Shell-Thick	INVSLE	1.3758	8.6010	-0.15	20.98
1008	497 Shell-Thick	INVSLE	1.4333	8.4722	-0.15	20.82
1008	497 Shell-Thick	INVSLE	0.5290	5.6688	-0.24	20.82
1008	497 Shell-Thick	INVSLE	0.1708	2.2906	-0.50	10.98
1008	497 Shell-Thick	INVSLE	0.6023	3.7653	-0.31	10.98
1008	497 Shell-Thick	INVSLE	0.6306	3.7108	-0.31	10.90
1008	497 Shell-Thick	INVSLE	0.1882	2.2434	-0.50	10.90
1008	497 Shell-Thick	INVSLU	0.8624	9.8361	-0.32	32.58
1008	497 Shell-Thick	INVSLU	2.2728	14.2087	-0.20	32.58
1008	497 Shell-Thick	INVSLU	2.3641	13.9938	-0.20	32.31
1008	497 Shell-Thick	INVSLU	0.9243	9.6410	-0.32	32.31
1008	497 Shell-Thick	INVSLU	0.2306	3.0923	-0.80	14.82
1008	497 Shell-Thick	INVSLU	0.8131	5.0832	-0.50	14.82
1008	497 Shell-Thick	INVSLU	0.8514	5.0095	-0.50	14.72
1008	497 Shell-Thick	INVSLU	0.2541	3.0286	-0.80	14.72
1009	498 Shell-Thick	INVSLE	0.4581	5.6565	-0.38	20.82
1009	498 Shell-Thick	INVSLE	1.3233	8.4484	-0.24	20.82
1009	498 Shell-Thick	INVSLE	1.4135	8.2501	-0.24	20.56
1009	498 Shell-Thick	INVSLE	0.5186	5.4783	-0.38	20.56
1009	498 Shell-Thick	INVSLE	0.1542	2.2369	-0.79	10.90
1009	498 Shell-Thick	INVSLE	0.5778	3.7000	-0.49	10.90
1009	498 Shell-Thick	INVSLE	0.6224	3.6159	-0.49	10.78
1009	498 Shell-Thick	INVSLE	0.1820	2.1641	-0.79	10.78
1009	498 Shell-Thick	INVSLU	0.8105	9.6221	-0.51	32.32
1009	498 Shell-Thick	INVSLU	2.1878	13.9547	-0.32	32.32
1009	498 Shell-Thick	INVSLU	2.3310	13.6240	-0.32	31.90
1009	498 Shell-Thick	INVSLU	0.9089	9.3216	-0.51	31.90
1009	498 Shell-Thick	INVSLU	0.2082	3.0198	-1.26	14.72
1009	498 Shell-Thick	INVSLU	0.7801	4.9950	-0.79	14.72
1009	498 Shell-Thick	INVSLU	0.8402	4.8815	-0.79	14.55
1009	498 Shell-Thick	INVSLU	0.2457	2.9216	-1.26	14.55
1010	499 Shell-Thick	INVSLE	0.4116	5.4610	-0.52	20.56
1010	499 Shell-Thick	INVSLE	1.2605	8.2155	-0.33	20.56
1010	499 Shell-Thick	INVSLE	1.3844	7.9506	-0.33	20.21
1010	499 Shell-Thick	INVSLE	0.4958	5.2230	-0.52	20.21

1010	499 Shell-Thick	INVSLE	0.1313	2.1548	-1.09	10.78
1010	499 Shell-Thick	INVSLE	0.5479	3.6002	-0.68	10.78
1010	499 Shell-Thick	INVSLE	0.6092	3.4877	-0.68	10.61
1010	499 Shell-Thick	INVSLE	0.1701	2.0575	-1.09	10.61
1010	499 Shell-Thick	INVSLU	0.7367	9.2949	-0.70	31.91
1010	499 Shell-Thick	INVSLU	2.0869	13.5674	-0.44	31.91
1010	499 Shell-Thick	INVSLU	2.2833	13.1259	-0.44	31.34
1010	499 Shell-Thick	INVSLU	0.8734	8.8937	-0.70	31.34
1010	499 Shell-Thick	INVSLU	0.1772	2.9090	-1.74	14.55
1010	499 Shell-Thick	INVSLU	0.7396	4.8602	-1.09	14.55
1010	499 Shell-Thick	INVSLU	0.8225	4.7084	-1.09	14.32
1010	499 Shell-Thick	INVSLU	0.2296	2.7777	-1.74	14.32
1011	500 Shell-Thick	INVSLE	0.3610	5.2011	-0.68	20.21
1011	500 Shell-Thick	INVSLE	1.1802	7.9046	-0.43	20.21
1011	500 Shell-Thick	INVSLE	1.3385	7.5771	-0.43	19.76
1011	500 Shell-Thick	INVSLE	0.4713	4.9061	-0.68	19.76
1011	500 Shell-Thick	INVSLE	0.1050	2.0457	-1.40	10.61
1011	500 Shell-Thick	INVSLE	0.5101	3.4667	-0.88	10.61
1011	500 Shell-Thick	INVSLE	0.5888	3.3273	-0.88	10.39
1011	500 Shell-Thick	INVSLE	0.1561	1.9249	-1.40	10.39
1011	500 Shell-Thick	INVSLU	0.6579	8.8603	-0.91	31.35
1011	500 Shell-Thick	INVSLU	1.9572	13.0510	-0.58	31.35
1011	500 Shell-Thick	INVSLU	2.2078	12.5053	-0.58	30.62
1011	500 Shell-Thick	INVSLU	0.8368	8.3631	-0.91	30.62
1011	500 Shell-Thick	INVSLU	0.1418	2.7617	-2.24	14.32
1011	500 Shell-Thick	INVSLU	0.6886	4.6801	-1.41	14.32
1011	500 Shell-Thick	INVSLU	0.7949	4.4919	-1.41	14.03
1011	500 Shell-Thick	INVSLU	0.2108	2.5987	-2.24	14.03
1012	501 Shell-Thick	INVSLE	0.2996	4.8803	-0.84	19.77
1012	501 Shell-Thick	INVSLE	1.0920	7.5193	-0.53	19.77
1012	501 Shell-Thick	INVSLE	1.2865	7.1348	-0.53	19.21
1012	501 Shell-Thick	INVSLE	0.4383	4.5335	-0.84	19.21
1012	501 Shell-Thick	INVSLE	0.0733	1.9107	-1.73	10.39
1012	501 Shell-Thick	INVSLE	0.4675	3.3007	-1.10	10.39
1012	501 Shell-Thick	INVSLE	0.5648	3.1367	-1.10	10.12
1012	501 Shell-Thick	INVSLE	0.1381	1.7686	-1.73	10.12
1012	501 Shell-Thick	INVSLU	0.5620	8.3238	-1.14	30.64
1012	501 Shell-Thick	INVSLU	1.8161	12.4113	-0.72	30.64
1012	501 Shell-Thick	INVSLU	2.1235	11.7711	-0.72	29.74
1012	501 Shell-Thick	INVSLU	0.7864	7.7398	-1.14	29.74
1012	501 Shell-Thick	INVSLU	0.0990	2.5795	-2.77	14.03
1012	501 Shell-Thick	INVSLU	0.6312	4.4560	-1.75	14.03
1012	501 Shell-Thick	INVSLU	0.7624	4.2345	-1.75	13.66
1012	501 Shell-Thick	INVSLU	0.1864	2.3876	-2.77	13.66
1013	502 Shell-Thick	INVSLE	0.2391	4.5047	-1.02	19.22
1013	502 Shell-Thick	INVSLE	0.9887	7.0642	-0.65	19.22
1013	502 Shell-Thick	INVSLE	1.2209	6.6290	-0.65	18.55
1013	502 Shell-Thick	INVSLE	0.4102	4.1108	-1.02	18.55
1013	502 Shell-Thick	INVSLE	0.0402	1.7524	-2.09	10.12
1013	502 Shell-Thick	INVSLE	0.4180	3.1039	-1.33	10.12
1013	502 Shell-Thick	INVSLE	0.5348	2.9178	-1.33	9.80
1013	502 Shell-Thick	INVSLE	0.1207	1.5908	-2.09	9.80
1013	502 Shell-Thick	INVSLU	0.4698	7.6963	-1.38	29.76
1013	502 Shell-Thick	INVSLU	1.6506	11.6566	-0.88	29.76
1013	502 Shell-Thick	INVSLU	2.0165	10.9327	-0.88	28.69
1013	502 Shell-Thick	INVSLU	0.7459	7.0332	-1.38	28.69
1013	502 Shell-Thick	INVSLU	0.0542	2.3658	-3.34	13.67
1013	502 Shell-Thick	INVSLU	0.5643	4.1903	-2.12	13.67
1013	502 Shell-Thick	INVSLU	0.7220	3.9390	-2.12	13.23
1013	502 Shell-Thick	INVSLU	0.1630	2.1476	-3.34	13.23
1014	503 Shell-Thick	INVSLE	0.1732	4.0798	-1.23	18.56
1014	503 Shell-Thick	INVSLE	0.8820	6.5448	-0.79	18.56
1014	503 Shell-Thick	INVSLE	1.1549	6.0685	-0.79	17.77
1014	503 Shell-Thick	INVSLE	0.3805	3.6480	-1.23	17.77
1014	503 Shell-Thick	INVSLE	0.0039	1.5729	-2.49	9.80
1014	503 Shell-Thick	INVSLE	0.3652	2.8783	-1.59	9.80
1014	503 Shell-Thick	INVSLE	0.5035	2.6740	-1.59	9.41
1014	503 Shell-Thick	INVSLE	0.1024	1.3955	-2.49	9.41
1014	503 Shell-Thick	INVSLU	0.3697	6.9869	-1.66	28.72
1014	503 Shell-Thick	INVSLU	1.4813	10.7966	-1.06	28.72
1014	503 Shell-Thick	INVSLU	1.9102	10.0049	-1.06	27.47
1014	503 Shell-Thick	INVSLU	0.7031	6.2599	-1.66	27.47
1014	503 Shell-Thick	INVSLU	0.0052	2.1235	-3.95	13.23
1014	503 Shell-Thick	INVSLU	0.4930	3.8857	-2.52	13.23
1014	503 Shell-Thick	INVSLU	0.6798	3.6099	-2.52	12.71
1014	503 Shell-Thick	INVSLU	0.1383	1.8839	-3.95	12.71
1015	504 Shell-Thick	INVSLE	0.1168	3.6162	-1.45	17.79
1015	504 Shell-Thick	INVSLE	0.7649	5.9695	-0.94	17.79

1015	504 Shell-Thick	INVSLE	1.0809	5.4615	-0.94	16.88
1015	504 Shell-Thick	INVSLE	0.3664	3.1533	-1.45	16.88
1015	504 Shell-Thick	INVSLE	-0.0304	1.3766	-2.92	9.42
1015	504 Shell-Thick	INVSLE	0.3072	2.6271	-1.88	9.42
1015	504 Shell-Thick	INVSLE	0.4690	2.4087	-1.88	8.97
1015	504 Shell-Thick	INVSLE	0.0896	1.1865	-2.92	8.97
1015	504 Shell-Thick	INVSLU	0.2875	6.2133	-1.96	27.50
1015	504 Shell-Thick	INVSLU	1.2956	9.8455	-1.27	27.50
1015	504 Shell-Thick	INVSLU	1.7905	9.0016	-1.27	26.05
1015	504 Shell-Thick	INVSLU	0.6873	5.4340	-1.96	26.05
1015	504 Shell-Thick	INVSLU	-0.0410	1.8584	-4.63	12.72
1015	504 Shell-Thick	INVSLU	0.4148	3.5465	-2.97	12.72
1015	504 Shell-Thick	INVSLU	0.6331	3.2518	-2.97	12.11
1015	504 Shell-Thick	INVSLU	0.1209	1.6018	-4.63	12.11
1016	505 Shell-Thick	INVSLE	0.0649	3.1221	-1.72	16.90
1016	505 Shell-Thick	INVSLE	0.6512	5.3465	-1.11	16.90
1016	505 Shell-Thick	INVSLE	1.0153	4.8216	-1.11	15.85
1016	505 Shell-Thick	INVSLE	0.3625	2.6424	-1.72	15.85
1016	505 Shell-Thick	INVSLE	-0.0631	1.1671	-3.41	8.98
1016	505 Shell-Thick	INVSLE	0.2488	2.3535	-2.21	8.98
1016	505 Shell-Thick	INVSLE	0.4371	2.1276	-2.21	8.45
1016	505 Shell-Thick	INVSLE	0.0819	0.9705	-3.41	8.45
1016	505 Shell-Thick	INVSLU	0.2133	5.3891	-2.32	26.09
1016	505 Shell-Thick	INVSLU	1.1177	8.8172	-1.50	26.09
1016	505 Shell-Thick	INVSLU	1.6858	7.9457	-1.50	24.42
1016	505 Shell-Thick	INVSLU	0.6879	4.5812	-2.32	24.42
1016	505 Shell-Thick	INVSLU	-0.0852	1.5756	-5.38	12.12
1016	505 Shell-Thick	INVSLU	0.3359	3.1773	-3.47	12.12
1016	505 Shell-Thick	INVSLU	0.5900	2.8723	-3.47	11.41
1016	505 Shell-Thick	INVSLU	0.1106	1.3101	-5.38	11.41
1017	506 Shell-Thick	INVSLE	0.0358	2.6138	-2.02	15.88
1017	506 Shell-Thick	INVSLE	0.5354	4.6889	-1.32	15.88
1017	506 Shell-Thick	INVSLE	0.9520	4.1605	-1.32	14.67
1017	506 Shell-Thick	INVSLE	0.3908	2.1274	-2.02	14.67
1017	506 Shell-Thick	INVSLE	-0.0871	0.9515	-3.97	8.46
1017	506 Shell-Thick	INVSLE	0.1891	2.0631	-2.58	8.46
1017	506 Shell-Thick	INVSLE	0.4072	1.8360	-2.58	7.85
1017	506 Shell-Thick	INVSLE	0.0883	0.7533	-3.97	7.85
1017	506 Shell-Thick	INVSLU	0.1784	4.5414	-2.73	24.48
1017	506 Shell-Thick	INVSLU	0.9370	7.7339	-1.78	24.48
1017	506 Shell-Thick	INVSLU	1.5838	6.8561	-1.78	22.58
1017	506 Shell-Thick	INVSLU	0.7416	3.7208	-2.73	22.58
1017	506 Shell-Thick	INVSLU	-0.1176	1.2845	-6.23	11.43
1017	506 Shell-Thick	INVSLU	0.2552	2.7852	-4.05	11.43
1017	506 Shell-Thick	INVSLU	0.5497	2.4786	-4.05	10.60
1017	506 Shell-Thick	INVSLU	0.1192	1.0170	-6.23	10.60
1018	507 Shell-Thick	INVSLE	0.0286	2.1033	-2.38	14.72
1018	507 Shell-Thick	INVSLE	0.4336	4.0085	-1.57	14.72
1018	507 Shell-Thick	INVSLE	0.9110	3.4982	-1.57	13.34
1018	507 Shell-Thick	INVSLE	0.4500	1.6312	-2.38	13.34
1018	507 Shell-Thick	INVSLE	-0.1002	0.7359	-4.61	7.87
1018	507 Shell-Thick	INVSLE	0.1340	1.7612	-3.03	7.87
1018	507 Shell-Thick	INVSLE	0.3873	1.5429	-3.03	7.17
1018	507 Shell-Thick	INVSLE	0.1116	0.5458	-4.61	7.17
1018	507 Shell-Thick	INVSLU	0.1779	3.6890	-3.21	22.66
1018	507 Shell-Thick	INVSLU	0.7811	6.6146	-2.12	22.66
1018	507 Shell-Thick	INVSLU	1.5184	5.7655	-2.12	20.49
1018	507 Shell-Thick	INVSLU	0.8424	2.8899	-3.21	20.49
1018	507 Shell-Thick	INVSLU	-0.1353	0.9934	-7.19	10.63
1018	507 Shell-Thick	INVSLU	0.1809	2.3776	-4.71	10.63
1018	507 Shell-Thick	INVSLU	0.5228	2.0830	-4.71	9.68
1018	507 Shell-Thick	INVSLU	0.1507	0.7368	-7.19	9.68
1019	508 Shell-Thick	INVSLE	0.0659	1.6144	-2.81	13.40
1019	508 Shell-Thick	INVSLE	0.3442	3.3248	-1.88	13.40
1019	508 Shell-Thick	INVSLE	0.8907	2.8498	-1.88	11.82
1019	508 Shell-Thick	INVSLE	0.5679	1.1701	-2.81	11.82
1019	508 Shell-Thick	INVSLE	-0.0918	0.5312	-5.35	7.19
1019	508 Shell-Thick	INVSLE	0.0855	1.4565	-3.55	7.19
1019	508 Shell-Thick	INVSLE	0.3800	1.2564	-3.55	6.38
1019	508 Shell-Thick	INVSLE	0.1651	0.3568	-5.35	6.38
1019	508 Shell-Thick	INVSLU	0.2488	2.8704	-3.79	20.59
1019	508 Shell-Thick	INVSLU	0.6443	5.4914	-2.53	20.59
1019	508 Shell-Thick	INVSLU	1.4830	4.6976	-2.53	18.13
1019	508 Shell-Thick	INVSLU	1.0350	2.1131	-3.79	18.13
1019	508 Shell-Thick	INVSLU	-0.1239	0.7171	-8.30	9.71
1019	508 Shell-Thick	INVSLU	0.1154	1.9662	-5.49	9.71
1019	508 Shell-Thick	INVSLU	0.5130	1.6961	-5.49	8.61
1019	508 Shell-Thick	INVSLU	0.2229	0.4817	-8.30	8.61

1020	509 Shell-Thick	INVSLE	0.1536	1.1631	-3.33	11.89
1020	509 Shell-Thick	INVSLE	0.2858	2.6529	-2.25	11.89
1020	509 Shell-Thick	INVSLE	0.9160	2.2412	-2.25	10.10
1020	509 Shell-Thick	INVSLE	0.7516	0.7740	-3.33	10.10
1020	509 Shell-Thick	INVSLE	-0.0538	0.3468	-6.24	6.41
1020	509 Shell-Thick	INVSLE	0.0518	1.1569	-4.19	6.41
1020	509 Shell-Thick	INVSLE	0.3971	0.9890	-4.19	5.47
1020	509 Shell-Thick	INVSLE	0.2586	0.2015	-6.24	5.47
1020	509 Shell-Thick	INVSLU	0.3942	2.1097	-4.50	18.25
1020	509 Shell-Thick	INVSLU	0.5572	4.3877	-3.04	18.25
1020	509 Shell-Thick	INVSLU	1.5178	3.6932	-3.04	15.46
1020	509 Shell-Thick	INVSLU	1.3233	1.4379	-4.50	15.46
1020	509 Shell-Thick	INVSLU	-0.0727	0.4682	-9.62	8.66
1020	509 Shell-Thick	INVSLU	0.0699	1.5618	-6.43	8.66
1020	509 Shell-Thick	INVSLU	0.5361	1.3351	-6.43	7.38
1020	509 Shell-Thick	INVSLU	0.3491	0.2720	-9.62	7.38
1021	510 Shell-Thick	INVSLE	0.3185	0.7800	-3.98	10.19
1021	510 Shell-Thick	INVSLE	0.2623	2.0178	-2.74	10.19
1021	510 Shell-Thick	INVSLE	0.9934	1.6891	-2.74	8.14
1021	510 Shell-Thick	INVSLE	1.0359	0.4616	-3.98	8.14
1021	510 Shell-Thick	INVSLE	0.0296	0.1982	-7.32	5.51
1021	510 Shell-Thick	INVSLE	0.0399	0.8751	-4.98	5.51
1021	510 Shell-Thick	INVSLE	0.4484	0.7509	-4.98	4.42
1021	510 Shell-Thick	INVSLE	0.4129	0.0916	-7.32	4.42
1021	510 Shell-Thick	INVSLU	0.6535	1.4547	-5.38	15.62
1021	510 Shell-Thick	INVSLU	0.5203	3.3430	-3.70	15.62
1021	510 Shell-Thick	INVSLU	1.6254	2.7770	-3.70	12.46
1021	510 Shell-Thick	INVSLU	1.7584	0.8907	-5.38	12.46
1021	510 Shell-Thick	INVSLU	0.0400	0.2676	-11.19	7.44
1021	510 Shell-Thick	INVSLU	0.0539	1.1813	-7.58	7.44
1021	510 Shell-Thick	INVSLU	0.6053	1.0138	-7.58	5.97
1021	510 Shell-Thick	INVSLU	0.5574	0.1237	-11.19	5.97
1022	511 Shell-Thick	INVSLE	1.5914	0.1242	10.54	-0.11
1022	511 Shell-Thick	INVSLE	0.8343	0.3610	6.22	-0.11
1022	511 Shell-Thick	INVSLE	-0.0803	0.3372	6.22	3.58
1022	511 Shell-Thick	INVSLE	0.5891	0.1194	10.54	3.58
1022	511 Shell-Thick	INVSLE	0.9609	0.0829	6.35	-0.20
1022	511 Shell-Thick	INVSLE	0.5219	0.2136	3.85	-0.20
1022	511 Shell-Thick	INVSLE	-0.1364	0.1854	3.85	2.08
1022	511 Shell-Thick	INVSLE	0.3611	0.0518	6.35	2.08
1022	511 Shell-Thick	INVSLU	2.3225	0.1738	15.39	-0.15
1022	511 Shell-Thick	INVSLU	1.1965	0.5318	8.96	-0.15
1022	511 Shell-Thick	INVSLU	-0.1084	0.5132	8.96	5.33
1022	511 Shell-Thick	INVSLU	0.8534	0.1978	15.39	5.33
1022	511 Shell-Thick	INVSLU	1.2972	0.1120	8.58	-0.30
1022	511 Shell-Thick	INVSLU	0.7046	0.2884	5.20	-0.30
1022	511 Shell-Thick	INVSLU	-0.2016	0.2502	5.20	2.81
1022	511 Shell-Thick	INVSLU	0.4875	0.0700	8.58	2.81
1023	512 Shell-Thick	INVSLE	1.2471	0.0438	8.30	3.37
1023	512 Shell-Thick	INVSLE	0.7944	0.7305	4.35	3.37
1023	512 Shell-Thick	INVSLE	0.0534	1.0095	4.35	6.82
1023	512 Shell-Thick	INVSLE	0.4983	0.3260	8.30	6.82
1023	512 Shell-Thick	INVSLE	0.6630	0.0048	4.87	1.97
1023	512 Shell-Thick	INVSLE	0.4453	0.3978	2.59	1.97
1023	512 Shell-Thick	INVSLE	-0.0014	0.5251	2.59	3.96
1023	512 Shell-Thick	INVSLE	0.2314	0.1208	4.87	3.96
1023	512 Shell-Thick	INVSLU	1.9244	0.0890	12.28	4.99
1023	512 Shell-Thick	INVSLU	1.1991	1.1163	6.39	4.99
1023	512 Shell-Thick	INVSLU	0.1169	1.5712	6.39	10.14
1023	512 Shell-Thick	INVSLU	0.8078	0.5640	12.28	10.14
1023	512 Shell-Thick	INVSLU	0.8950	0.0065	6.57	2.66
1023	512 Shell-Thick	INVSLU	0.6012	0.5371	3.50	2.66
1023	512 Shell-Thick	INVSLU	-0.0019	0.7089	3.50	5.35
1023	512 Shell-Thick	INVSLU	0.3124	0.1631	6.57	5.35
1024	513 Shell-Thick	INVSLE	0.9459	0.2421	6.68	6.64
1024	513 Shell-Thick	INVSLE	0.7663	1.3255	3.36	6.64
1024	513 Shell-Thick	INVSLE	0.1680	1.7917	3.36	9.55
1024	513 Shell-Thick	INVSLE	0.3615	0.6973	6.68	9.55
1024	513 Shell-Thick	INVSLE	0.4489	0.0747	3.81	3.87
1024	513 Shell-Thick	INVSLE	0.4063	0.6963	1.94	3.87
1024	513 Shell-Thick	INVSLE	0.0544	0.9225	1.94	5.51
1024	513 Shell-Thick	INVSLE	0.1236	0.2822	3.81	5.51
1024	513 Shell-Thick	INVSLU	1.5222	0.4362	10.01	9.86
1024	513 Shell-Thick	INVSLU	1.1838	2.0552	5.01	9.86
1024	513 Shell-Thick	INVSLU	0.2997	2.7996	5.01	14.24
1024	513 Shell-Thick	INVSLU	0.6374	1.1786	10.01	14.24
1024	513 Shell-Thick	INVSLU	0.6061	0.1009	5.15	5.22
1024	513 Shell-Thick	INVSLU	0.5485	0.9400	2.61	5.22

1024	513 Shell-Thick	INVSLU	0.0734	1.2454	2.61	7.45
1024	513 Shell-Thick	INVSLU	0.1668	0.3810	5.15	7.45
1025	514 Shell-Thick	INVSLE	0.7522	0.6394	5.51	9.41
1025	514 Shell-Thick	INVSLE	0.8157	2.0573	2.70	9.41
1025	514 Shell-Thick	INVSLE	0.3133	2.6776	2.70	11.87
1025	514 Shell-Thick	INVSLE	0.2875	1.2331	5.51	11.87
1025	514 Shell-Thick	INVSLE	0.3256	0.2536	3.07	5.44
1025	514 Shell-Thick	INVSLE	0.4186	1.0644	1.51	5.44
1025	514 Shell-Thick	INVSLE	0.1300	1.3679	1.51	6.81
1025	514 Shell-Thick	INVSLE	0.0744	0.5312	3.07	6.81
1025	514 Shell-Thick	INVSLU	1.2468	1.0868	8.34	14.02
1025	514 Shell-Thick	INVSLU	1.2761	3.2087	4.08	14.02
1025	514 Shell-Thick	INVSLU	0.5258	4.1965	4.08	17.75
1025	514 Shell-Thick	INVSLU	0.5345	2.0470	8.34	17.75
1025	514 Shell-Thick	INVSLU	0.4396	0.3424	4.14	7.35
1025	514 Shell-Thick	INVSLU	0.5651	1.4369	2.04	7.35
1025	514 Shell-Thick	INVSLU	0.1755	1.8466	2.04	9.19
1025	514 Shell-Thick	INVSLU	0.1005	0.7171	4.14	9.19
1026	515 Shell-Thick	INVSLE	0.6637	1.2005	4.62	11.77
1026	515 Shell-Thick	INVSLE	0.9099	2.9048	2.22	11.77
1026	515 Shell-Thick	INVSLE	0.4796	3.6355	2.22	13.87
1026	515 Shell-Thick	INVSLE	0.2887	1.8931	4.62	13.87
1026	515 Shell-Thick	INVSLE	0.2707	0.5175	2.52	6.75
1026	515 Shell-Thick	INVSLE	0.4603	1.4869	1.21	6.75
1026	515 Shell-Thick	INVSLE	0.2181	1.8409	1.21	7.89
1026	515 Shell-Thick	INVSLE	0.0736	0.8407	2.52	7.89
1026	515 Shell-Thick	INVSLU	1.1195	1.9926	7.06	17.58
1026	515 Shell-Thick	INVSLU	1.4312	4.5489	3.38	17.58
1026	515 Shell-Thick	INVSLU	0.7829	5.7164	3.38	20.79
1026	515 Shell-Thick	INVSLU	0.5382	3.1134	7.06	20.79
1026	515 Shell-Thick	INVSLU	0.3654	0.6986	3.40	9.12
1026	515 Shell-Thick	INVSLU	0.6214	2.0073	1.64	9.12
1026	515 Shell-Thick	INVSLU	0.2944	2.4853	1.64	10.66
1026	515 Shell-Thick	INVSLU	0.0993	1.1349	3.40	10.66
1027	516 Shell-Thick	INVSLE	0.6430	1.8807	3.91	13.78
1027	516 Shell-Thick	INVSLE	1.0425	3.8312	1.85	13.78
1027	516 Shell-Thick	INVSLE	0.6674	4.6283	1.85	15.59
1027	516 Shell-Thick	INVSLE	0.3397	2.6287	3.91	15.59
1027	516 Shell-Thick	INVSLE	0.2588	0.8379	2.09	7.86
1027	516 Shell-Thick	INVSLE	0.5216	1.9414	0.99	7.86
1027	516 Shell-Thick	INVSLE	0.3146	2.3223	0.99	8.82
1027	516 Shell-Thick	INVSLE	0.1032	1.1838	2.09	8.82
1027	516 Shell-Thick	INVSLU	1.0885	3.0900	6.03	20.66
1027	516 Shell-Thick	INVSLU	1.6465	6.0227	2.84	20.66
1027	516 Shell-Thick	INVSLU	1.0766	7.3024	2.84	23.45
1027	516 Shell-Thick	INVSLU	0.6140	4.3042	6.03	23.45
1027	516 Shell-Thick	INVSLU	0.3494	1.1312	2.82	10.60
1027	516 Shell-Thick	INVSLU	0.7042	2.6209	1.34	10.60
1027	516 Shell-Thick	INVSLU	0.4247	3.1351	1.34	11.90
1027	516 Shell-Thick	INVSLU	0.1393	1.5981	2.82	11.90
1028	517 Shell-Thick	INVSLE	0.6790	2.6318	3.34	15.53
1028	517 Shell-Thick	INVSLE	1.1887	4.7973	1.55	15.53
1028	517 Shell-Thick	INVSLE	0.8601	5.6269	1.55	17.09
1028	517 Shell-Thick	INVSLE	0.4320	3.4058	3.34	17.09
1028	517 Shell-Thick	INVSLE	0.2769	1.1888	1.75	8.79
1028	517 Shell-Thick	INVSLE	0.5910	2.4073	0.82	8.79
1028	517 Shell-Thick	INVSLE	0.4125	2.7975	0.82	9.61
1028	517 Shell-Thick	INVSLE	0.1530	1.5420	1.75	9.61
1028	517 Shell-Thick	INVSLU	1.1454	4.3051	5.18	23.34
1028	517 Shell-Thick	INVSLU	1.8818	7.5689	2.40	23.34
1028	517 Shell-Thick	INVSLU	1.3792	8.9079	2.40	25.77
1028	517 Shell-Thick	INVSLU	0.7555	5.5671	5.18	25.77
1028	517 Shell-Thick	INVSLU	0.3738	1.6049	2.36	11.87
1028	517 Shell-Thick	INVSLU	0.7979	3.2498	1.10	11.87
1028	517 Shell-Thick	INVSLU	0.5569	3.7767	1.10	12.97
1028	517 Shell-Thick	INVSLU	0.2065	2.0818	2.36	12.97
1029	518 Shell-Thick	INVSLE	0.7421	3.4198	2.86	17.05
1029	518 Shell-Thick	INVSLE	1.3494	5.7728	1.31	17.05
1029	518 Shell-Thick	INVSLE	1.0592	6.6037	1.31	18.40
1029	518 Shell-Thick	INVSLE	0.5417	4.1898	2.86	18.40
1029	518 Shell-Thick	INVSLE	0.3103	1.5522	1.48	9.59
1029	518 Shell-Thick	INVSLE	0.6657	2.8695	0.68	9.59
1029	518 Shell-Thick	INVSLE	0.5105	3.2547	0.68	10.29
1029	518 Shell-Thick	INVSLE	0.2117	1.8992	1.48	10.29
1029	518 Shell-Thick	INVSLU	1.2429	5.5855	4.46	25.70
1029	518 Shell-Thick	INVSLU	2.1423	9.1396	2.04	25.70
1029	518 Shell-Thick	INVSLU	1.6955	10.4873	2.04	27.81
1029	518 Shell-Thick	INVSLU	0.9244	6.8460	4.46	27.81

1029	518	Shell-Thick	INVSLU	0.4189	2.0955	1.99	12.95
1029	518	Shell-Thick	INVSLU	0.8986	3.8738	0.91	12.95
1029	518	Shell-Thick	INVSLU	0.6892	4.3939	0.91	13.89
1029	518	Shell-Thick	INVSLU	0.2858	2.5639	1.99	13.89
1030	519	Shell-Thick	INVSLE	0.8318	4.2114	2.45	18.37
1030	519	Shell-Thick	INVSLE	1.5055	6.7294	1.11	18.37
1030	519	Shell-Thick	INVSLE	1.2501	7.5394	1.11	19.55
1030	519	Shell-Thick	INVSLE	0.6686	4.9591	2.45	19.55
1030	519	Shell-Thick	INVSLE	0.3551	1.9126	1.25	10.28
1030	519	Shell-Thick	INVSLE	0.7384	3.3155	0.56	10.28
1030	519	Shell-Thick	INVSLE	0.6036	3.6861	0.56	10.87
1030	519	Shell-Thick	INVSLE	0.2764	2.2452	1.25	10.87
1030	519	Shell-Thick	INVSLU	1.3846	6.8771	3.84	27.76
1030	519	Shell-Thick	INVSLU	2.3950	10.6881	1.73	27.76
1030	519	Shell-Thick	INVSLU	1.9999	12.0079	1.73	29.60
1030	519	Shell-Thick	INVSLU	1.1234	8.1061	3.84	29.60
1030	519	Shell-Thick	INVSLU	0.4794	2.5820	1.68	13.87
1030	519	Shell-Thick	INVSLU	0.9968	4.4760	0.76	13.87
1030	519	Shell-Thick	INVSLU	0.8148	4.9762	0.76	14.68
1030	519	Shell-Thick	INVSLU	0.3731	3.0310	1.68	14.68
1031	520	Shell-Thick	INVSLE	0.9258	4.9852	2.09	19.52
1031	520	Shell-Thick	INVSLE	1.6626	7.6472	0.93	19.52
1031	520	Shell-Thick	INVSLE	1.4377	8.4166	0.93	20.54
1031	520	Shell-Thick	INVSLE	0.7941	5.6916	2.09	20.54
1031	520	Shell-Thick	INVSLE	0.4024	2.2604	1.05	10.87
1031	520	Shell-Thick	INVSLE	0.8098	3.7373	0.47	10.87
1031	520	Shell-Thick	INVSLE	0.6926	4.0850	0.47	11.38
1031	520	Shell-Thick	INVSLE	0.3398	2.5712	1.05	11.38
1031	520	Shell-Thick	INVSLU	1.5329	8.1450	3.30	29.56
1031	520	Shell-Thick	INVSLU	2.6515	12.1812	1.47	29.56
1031	520	Shell-Thick	INVSLU	2.3017	13.4396	1.47	31.16
1031	520	Shell-Thick	INVSLU	1.3209	9.3102	3.30	31.16
1031	520	Shell-Thick	INVSLU	0.5432	3.0515	1.42	14.67
1031	520	Shell-Thick	INVSLU	1.0932	5.0454	0.64	14.67
1031	520	Shell-Thick	INVSLU	0.9350	5.5148	0.64	15.36
1031	520	Shell-Thick	INVSLU	0.4587	3.4711	1.42	15.36
1032	521	Shell-Thick	INVSLE	1.0292	5.7203	1.78	20.52
1032	521	Shell-Thick	INVSLE	1.8052	8.5085	0.79	20.52
1032	521	Shell-Thick	INVSLE	1.6092	9.2232	0.79	21.40
1032	521	Shell-Thick	INVSLE	0.9228	6.3745	1.78	21.40
1032	521	Shell-Thick	INVSLE	0.4521	2.5871	0.89	11.37
1032	521	Shell-Thick	INVSLE	0.8746	4.1280	0.39	11.37
1032	521	Shell-Thick	INVSLE	0.7735	4.4476	0.39	11.81
1032	521	Shell-Thick	INVSLE	0.4024	2.8719	0.89	11.81
1032	521	Shell-Thick	INVSLU	1.6984	9.3537	2.82	31.14
1032	521	Shell-Thick	INVSLU	2.8842	13.5881	1.24	31.14
1032	521	Shell-Thick	INVSLU	2.5783	14.7611	1.24	32.52
1032	521	Shell-Thick	INVSLU	1.5262	10.4363	2.82	32.52
1032	521	Shell-Thick	INVSLU	0.6104	3.4925	1.20	15.35
1032	521	Shell-Thick	INVSLU	1.1808	5.5728	0.53	15.35
1032	521	Shell-Thick	INVSLU	1.0442	6.0043	0.53	15.94
1032	521	Shell-Thick	INVSLU	0.5433	3.8771	1.20	15.94
1033	522	Shell-Thick	INVSLE	1.1247	6.4036	1.50	21.39
1033	522	Shell-Thick	INVSLE	1.9408	9.3009	0.66	21.39
1033	522	Shell-Thick	INVSLE	1.7712	9.9488	0.66	22.13
1033	522	Shell-Thick	INVSLE	1.0399	6.9942	1.50	22.13
1033	522	Shell-Thick	INVSLE	0.4983	2.8876	0.74	11.81
1033	522	Shell-Thick	INVSLE	0.9349	4.4835	0.33	11.81
1033	522	Shell-Thick	INVSLE	0.8482	4.7706	0.33	12.17
1033	522	Shell-Thick	INVSLE	0.4591	3.1425	0.74	12.17
1033	522	Shell-Thick	INVSLU	1.8511	10.4808	2.39	32.50
1033	522	Shell-Thick	INVSLU	3.1072	14.8873	1.04	32.50
1033	522	Shell-Thick	INVSLU	2.8414	15.9536	1.04	33.68
1033	522	Shell-Thick	INVSLU	1.7133	11.4607	2.39	33.68
1033	522	Shell-Thick	INVSLU	0.6726	3.8982	1.00	15.94
1033	522	Shell-Thick	INVSLU	1.2621	6.0527	0.44	15.94
1033	522	Shell-Thick	INVSLU	1.1451	6.4402	0.44	16.43
1033	522	Shell-Thick	INVSLU	0.6198	4.2424	1.00	16.43
1034	523	Shell-Thick	INVSLE	1.2192	7.0224	1.25	22.13
1034	523	Shell-Thick	INVSLE	2.0566	10.0136	0.54	22.13
1034	523	Shell-Thick	INVSLE	1.9127	10.5859	0.54	22.75
1034	523	Shell-Thick	INVSLE	1.1519	7.5430	1.25	22.75
1034	523	Shell-Thick	INVSLE	0.5424	3.1573	0.61	12.17
1034	523	Shell-Thick	INVSLE	0.9865	4.8001	0.27	12.17
1034	523	Shell-Thick	INVSLE	0.9134	5.0517	0.27	12.48
1034	523	Shell-Thick	INVSLE	0.5118	3.3803	0.61	12.48
1034	523	Shell-Thick	INVSLU	2.0041	11.5044	1.99	33.67
1034	523	Shell-Thick	INVSLU	3.2976	16.0593	0.86	33.67

1034	523 Shell-Thick	INVSLU	3.0715	17.0035	0.86	34.66
1034	523 Shell-Thick	INVSLU	1.8942	12.3701	1.99	34.66
1034	523 Shell-Thick	INVSLU	0.7323	4.2623	0.83	16.43
1034	523 Shell-Thick	INVSLU	1.3318	6.4802	0.36	16.43
1034	523 Shell-Thick	INVSLU	1.2331	6.8199	0.36	16.84
1034	523 Shell-Thick	INVSLU	0.6909	4.5634	0.83	16.84
1035	524 Shell-Thick	INVSLE	1.2991	7.5687	1.02	22.75
1035	524 Shell-Thick	INVSLE	2.1606	10.6392	0.44	22.75
1035	524 Shell-Thick	INVSLE	2.0409	11.1286	0.44	23.26
1035	524 Shell-Thick	INVSLE	1.2470	8.0126	1.02	23.26
1035	524 Shell-Thick	INVSLE	0.5800	3.3936	0.50	12.48
1035	524 Shell-Thick	INVSLE	1.0318	5.0758	0.21	12.48
1035	524 Shell-Thick	INVSLE	0.9714	5.2896	0.21	12.73
1035	524 Shell-Thick	INVSLE	0.5565	3.5826	0.50	12.73
1035	524 Shell-Thick	INVSLU	2.1330	12.4103	1.63	34.66
1035	524 Shell-Thick	INVSLU	3.4696	17.0907	0.70	34.66
1035	524 Shell-Thick	INVSLU	3.2810	17.8997	0.70	35.47
1035	524 Shell-Thick	INVSLU	2.0477	13.1497	1.63	35.47
1035	524 Shell-Thick	INVSLU	0.7830	4.5814	0.67	16.85
1035	524 Shell-Thick	INVSLU	1.3929	6.8523	0.29	16.85
1035	524 Shell-Thick	INVSLU	1.3114	7.1409	0.29	17.18
1035	524 Shell-Thick	INVSLU	0.7512	4.8365	0.67	17.18
1036	525 Shell-Thick	INVSLE	1.3718	8.0352	0.81	23.26
1036	525 Shell-Thick	INVSLE	2.2421	11.1712	0.34	23.26
1036	525 Shell-Thick	INVSLE	2.1463	11.5726	0.34	23.67
1036	525 Shell-Thick	INVSLE	1.3322	8.3987	0.81	23.67
1036	525 Shell-Thick	INVSLE	0.6132	3.5941	0.39	12.73
1036	525 Shell-Thick	INVSLE	1.0674	5.3086	0.17	12.73
1036	525 Shell-Thick	INVSLE	1.0193	5.4831	0.17	12.93
1036	525 Shell-Thick	INVSLE	0.5955	3.7481	0.39	12.93
1036	525 Shell-Thick	INVSLU	2.2515	13.1853	1.29	35.47
1036	525 Shell-Thick	INVSLU	3.6043	17.9696	0.55	35.47
1036	525 Shell-Thick	INVSLU	3.4531	18.6341	0.55	36.12
1036	525 Shell-Thick	INVSLU	2.1864	13.7917	1.29	36.12
1036	525 Shell-Thick	INVSLU	0.8278	4.8521	0.53	17.18
1036	525 Shell-Thick	INVSLU	1.4410	7.1666	0.23	17.18
1036	525 Shell-Thick	INVSLU	1.3761	7.4021	0.23	17.45
1036	525 Shell-Thick	INVSLU	0.8039	5.0599	0.53	17.45
1037	526 Shell-Thick	INVSLE	1.4261	8.4173	0.60	23.67
1037	526 Shell-Thick	INVSLE	2.3086	11.6053	0.26	23.67
1037	526 Shell-Thick	INVSLE	2.2358	11.9145	0.26	23.97
1037	526 Shell-Thick	INVSLE	1.3976	8.6967	0.60	23.97
1037	526 Shell-Thick	INVSLE	0.6383	3.7574	0.29	12.93
1037	526 Shell-Thick	INVSLE	1.0958	5.4976	0.12	12.93
1037	526 Shell-Thick	INVSLE	1.0594	5.6315	0.12	13.07
1037	526 Shell-Thick	INVSLE	0.6257	3.8753	0.29	13.07
1037	526 Shell-Thick	INVSLU	2.3396	13.8209	0.97	36.12
1037	526 Shell-Thick	INVSLU	3.7151	18.6880	0.41	36.12
1037	526 Shell-Thick	INVSLU	3.6000	19.2006	0.41	36.61
1037	526 Shell-Thick	INVSLU	2.2927	14.2876	0.97	36.61
1037	526 Shell-Thick	INVSLU	0.8617	5.0725	0.39	17.45
1037	526 Shell-Thick	INVSLU	1.4794	7.4217	0.17	17.45
1037	526 Shell-Thick	INVSLU	1.4302	7.6025	0.17	17.65
1037	526 Shell-Thick	INVSLU	0.8447	5.2317	0.39	17.65
1038	527 Shell-Thick	INVSLE	1.4693	8.7107	0.41	23.97
1038	527 Shell-Thick	INVSLE	2.3514	11.9379	0.17	23.97
1038	527 Shell-Thick	INVSLE	2.3015	12.1522	0.17	24.18
1038	527 Shell-Thick	INVSLE	1.4504	8.9042	0.41	24.18
1038	527 Shell-Thick	INVSLE	0.6578	3.8824	0.20	13.08
1038	527 Shell-Thick	INVSLE	1.1141	5.6418	8.378E-02	13.08
1038	527 Shell-Thick	INVSLE	1.0893	5.7343	8.378E-02	13.18
1038	527 Shell-Thick	INVSLE	0.6494	3.9637	0.20	13.18
1038	527 Shell-Thick	INVSLU	2.4105	14.3098	0.66	36.61
1038	527 Shell-Thick	INVSLU	3.7862	19.2391	0.28	36.61
1038	527 Shell-Thick	INVSLU	3.7073	19.5947	0.28	36.95
1038	527 Shell-Thick	INVSLU	2.3793	14.6332	0.66	36.95
1038	527 Shell-Thick	INVSLU	0.8880	5.2412	0.27	17.65
1038	527 Shell-Thick	INVSLU	1.5041	7.6164	0.11	17.65
1038	527 Shell-Thick	INVSLU	1.4705	7.7413	0.11	17.79
1038	527 Shell-Thick	INVSLU	0.8767	5.3511	0.27	17.79
1039	528 Shell-Thick	INVSLE	1.4923	8.9132	0.22	24.18
1039	528 Shell-Thick	INVSLE	2.3774	12.1668	9.407E-02	24.18
1039	528 Shell-Thick	INVSLE	2.3500	12.2843	9.407E-02	24.30
1039	528 Shell-Thick	INVSLE	1.4823	9.0189	0.22	24.30
1039	528 Shell-Thick	INVSLE	0.6684	3.9682	0.11	13.18
1039	528 Shell-Thick	INVSLE	1.1247	5.7407	4.540E-02	13.18
1039	528 Shell-Thick	INVSLE	1.1110	5.7913	4.540E-02	13.23
1039	528 Shell-Thick	INVSLE	0.6640	4.0127	0.11	13.23

1039	528 Shell-Thick	INVSLU	2.4477	14.6474	0.36	36.95
1039	528 Shell-Thick	INVSLU	3.8302	19.6187	0.15	36.95
1039	528 Shell-Thick	INVSLU	3.7868	19.8137	0.15	37.13
1039	528 Shell-Thick	INVSLU	2.4311	14.8243	0.36	37.13
1039	528 Shell-Thick	INVSLU	0.9024	5.3571	0.15	17.79
1039	528 Shell-Thick	INVSLU	1.5183	7.7499	6.129E-02	17.79
1039	528 Shell-Thick	INVSLU	1.4999	7.8183	6.129E-02	17.86
1039	528 Shell-Thick	INVSLU	0.8964	5.4171	0.15	17.86
1040	529 Shell-Thick	INVSLE	1.5022	9.0228	3.951E-02	24.30
1040	529 Shell-Thick	INVSLE	2.3791	12.2902	1.660E-02	24.30
1040	529 Shell-Thick	INVSLE	2.3742	12.3099	1.660E-02	24.32
1040	529 Shell-Thick	INVSLE	1.5005	9.0403	3.951E-02	24.32
1040	529 Shell-Thick	INVSLE	0.6727	4.0146	1.901E-02	13.23
1040	529 Shell-Thick	INVSLE	1.1249	5.7939	8.010E-03	13.23
1040	529 Shell-Thick	INVSLE	1.1225	5.8024	8.010E-03	13.24
1040	529 Shell-Thick	INVSLE	0.6720	4.0219	1.901E-02	13.24
1040	529 Shell-Thick	INVSLU	2.4640	14.8304	6.328E-02	37.13
1040	529 Shell-Thick	INVSLU	3.8336	19.8235	2.657E-02	37.13
1040	529 Shell-Thick	INVSLU	3.8257	19.8561	2.657E-02	37.16
1040	529 Shell-Thick	INVSLU	2.4613	14.8597	6.328E-02	37.16
1040	529 Shell-Thick	INVSLU	0.9082	5.4197	2.566E-02	17.86
1040	529 Shell-Thick	INVSLU	1.5186	7.8218	1.081E-02	17.86
1040	529 Shell-Thick	INVSLU	1.5153	7.8332	1.081E-02	17.88
1040	529 Shell-Thick	INVSLU	0.9072	5.4296	2.566E-02	17.88
1041	530 Shell-Thick	INVSLE	1.4909	9.0387	-6.933E-02	24.32
1041	530 Shell-Thick	INVSLE	2.3634	12.3073	-2.921E-02	24.32
1041	530 Shell-Thick	INVSLE	2.3809	12.2291	-2.921E-02	24.25
1041	530 Shell-Thick	INVSLE	1.4975	8.9677	-6.933E-02	24.25
1041	530 Shell-Thick	INVSLE	0.6679	4.0211	-0.14	13.24
1041	530 Shell-Thick	INVSLE	1.1172	5.8013	-6.056E-02	13.24
1041	530 Shell-Thick	INVSLE	1.1259	5.7676	-6.056E-02	13.21
1041	530 Shell-Thick	INVSLE	0.6708	3.9913	-0.14	13.21
1041	530 Shell-Thick	INVSLU	2.4452	14.8572	-9.360E-02	37.16
1041	530 Shell-Thick	INVSLU	3.8086	19.8520	-3.943E-02	37.16
1041	530 Shell-Thick	INVSLU	3.8362	19.7220	-3.943E-02	37.05
1041	530 Shell-Thick	INVSLU	2.4561	14.7385	-9.360E-02	37.05
1041	530 Shell-Thick	INVSLU	0.9017	5.4285	-0.23	17.88
1041	530 Shell-Thick	INVSLU	1.5082	7.8317	-9.691E-02	17.88
1041	530 Shell-Thick	INVSLU	1.5199	7.7862	-9.691E-02	17.83
1041	530 Shell-Thick	INVSLU	0.9056	5.3883	-0.23	17.83
1042	531 Shell-Thick	INVSLE	1.4659	8.9610	-0.16	24.24
1042	531 Shell-Thick	INVSLE	2.3232	12.2180	-6.706E-02	24.24
1042	531 Shell-Thick	INVSLE	2.3632	12.0424	-6.706E-02	24.08
1042	531 Shell-Thick	INVSLE	1.4812	8.8020	-0.16	24.08
1042	531 Shell-Thick	INVSLE	0.6564	3.9880	-0.33	13.21
1042	531 Shell-Thick	INVSLE	1.0991	5.7627	-0.14	13.21
1042	531 Shell-Thick	INVSLE	1.1190	5.6870	-0.14	13.13
1042	531 Shell-Thick	INVSLE	0.6631	3.9211	-0.33	13.13
1042	531 Shell-Thick	INVSLU	2.4046	14.7279	-0.21	37.04
1042	531 Shell-Thick	INVSLU	3.7428	19.7037	-9.053E-02	37.04
1042	531 Shell-Thick	INVSLU	3.8059	19.4122	-9.053E-02	36.78
1042	531 Shell-Thick	INVSLU	2.4298	14.4620	-0.21	36.78
1042	531 Shell-Thick	INVSLU	0.8862	5.3837	-0.53	17.83
1042	531 Shell-Thick	INVSLU	1.4838	7.7796	-0.22	17.83
1042	531 Shell-Thick	INVSLU	1.5106	7.6774	-0.22	17.72
1042	531 Shell-Thick	INVSLU	0.8952	5.2935	-0.53	17.72
1043	532 Shell-Thick	INVSLE	1.4198	8.7901	-0.25	24.08
1043	532 Shell-Thick	INVSLE	2.2658	12.0226	-0.11	24.08
1043	532 Shell-Thick	INVSLE	2.3285	11.7511	-0.11	23.81
1043	532 Shell-Thick	INVSLE	1.4443	8.5444	-0.25	23.81
1043	532 Shell-Thick	INVSLE	0.6358	3.9151	-0.52	13.12
1043	532 Shell-Thick	INVSLE	1.0730	5.6782	-0.22	13.12
1043	532 Shell-Thick	INVSLE	1.1043	5.5609	-0.22	13.00
1043	532 Shell-Thick	INVSLE	0.6466	3.8116	-0.52	13.00
1043	532 Shell-Thick	INVSLU	2.3290	14.4431	-0.34	36.78
1043	532 Shell-Thick	INVSLU	3.6491	19.3796	-0.14	36.78
1043	532 Shell-Thick	INVSLU	3.7482	18.9295	-0.14	36.35
1043	532 Shell-Thick	INVSLU	2.3693	14.0327	-0.34	36.35
1043	532 Shell-Thick	INVSLU	0.8583	5.2854	-0.83	17.72
1043	532 Shell-Thick	INVSLU	1.4485	7.6656	-0.35	17.72
1043	532 Shell-Thick	INVSLU	1.4908	7.5072	-0.35	17.55
1043	532 Shell-Thick	INVSLU	0.8729	5.1457	-0.83	17.55
1044	533 Shell-Thick	INVSLE	1.3609	8.5278	-0.35	23.81
1044	533 Shell-Thick	INVSLE	2.1844	11.7222	-0.15	23.81
1044	533 Shell-Thick	INVSLE	2.2699	11.3574	-0.15	23.45
1044	533 Shell-Thick	INVSLE	1.3958	8.1971	-0.35	23.45
1044	533 Shell-Thick	INVSLE	0.6087	3.8032	-0.72	13.00
1044	533 Shell-Thick	INVSLE	1.0365	5.5481	-0.31	13.00

1044	533 Shell-Thick	INVSLE	1.0794	5.3898	-0.31	12.82
1044	533 Shell-Thick	INVSLE	0.6242	3.6634	-0.72	12.82
1044	533 Shell-Thick	INVSLU	2.2331	14.0066	-0.47	36.35
1044	533 Shell-Thick	INVSLU	3.5155	18.8819	-0.20	36.35
1044	533 Shell-Thick	INVSLU	3.6504	18.2775	-0.20	35.77
1044	533 Shell-Thick	INVSLU	2.2907	13.4544	-0.47	35.77
1044	533 Shell-Thick	INVSLU	0.8217	5.1344	-1.15	17.54
1044	533 Shell-Thick	INVSLU	1.3993	7.4900	-0.49	17.54
1044	533 Shell-Thick	INVSLU	1.4572	7.2763	-0.49	17.31
1044	533 Shell-Thick	INVSLU	0.8427	4.9456	-1.15	17.31
1045	534 Shell-Thick	INVSLE	1.2817	8.1761	-0.45	23.45
1045	534 Shell-Thick	INVSLE	2.0868	11.3189	-0.19	23.45
1045	534 Shell-Thick	INVSLE	2.1959	10.8642	-0.19	22.98
1045	534 Shell-Thick	INVSLE	1.3285	7.7635	-0.45	22.98
1045	534 Shell-Thick	INVSLE	0.5726	3.6528	-0.93	12.82
1045	534 Shell-Thick	INVSLE	0.9922	5.3727	-0.40	12.82
1045	534 Shell-Thick	INVSLE	1.0472	5.1745	-0.40	12.59
1045	534 Shell-Thick	INVSLE	0.5935	3.4775	-0.93	12.59
1045	534 Shell-Thick	INVSLU	2.1041	13.4215	-0.61	35.78
1045	534 Shell-Thick	INVSLU	3.3560	18.2142	-0.26	35.78
1045	534 Shell-Thick	INVSLU	3.5280	17.4622	-0.26	35.03
1045	534 Shell-Thick	INVSLU	2.1807	12.7338	-0.61	35.03
1045	534 Shell-Thick	INVSLU	0.7730	4.9312	-1.48	17.31
1045	534 Shell-Thick	INVSLU	1.3395	7.2531	-0.63	17.31
1045	534 Shell-Thick	INVSLU	1.4137	6.9856	-0.63	17.00
1045	534 Shell-Thick	INVSLU	0.8013	4.6946	-1.48	17.00
1046	535 Shell-Thick	INVSLE	1.1921	7.7392	-0.56	22.98
1046	535 Shell-Thick	INVSLE	1.9661	10.8154	-0.24	22.98
1046	535 Shell-Thick	INVSLE	2.0990	10.2755	-0.24	22.41
1046	535 Shell-Thick	INVSLE	1.2530	7.2479	-0.56	22.41
1046	535 Shell-Thick	INVSLE	0.5306	3.4649	-1.15	12.59
1046	535 Shell-Thick	INVSLE	0.9378	5.1526	-0.50	12.59
1046	535 Shell-Thick	INVSLE	1.0051	4.9158	-0.50	12.31
1046	535 Shell-Thick	INVSLE	0.5582	3.2550	-1.15	12.31
1046	535 Shell-Thick	INVSLU	1.9591	12.6957	-0.76	35.04
1046	535 Shell-Thick	INVSLU	3.1586	17.3821	-0.33	35.04
1046	535 Shell-Thick	INVSLU	3.3675	16.4908	-0.33	34.12
1046	535 Shell-Thick	INVSLU	2.0587	11.8781	-0.76	34.12
1046	535 Shell-Thick	INVSLU	0.7163	4.6776	-1.83	17.00
1046	535 Shell-Thick	INVSLU	1.2660	6.9560	-0.79	17.00
1046	535 Shell-Thick	INVSLU	1.3569	6.6364	-0.79	16.62
1046	535 Shell-Thick	INVSLU	0.7536	4.3942	-1.83	16.62
1047	536 Shell-Thick	INVSLE	1.0847	7.2207	-0.69	22.41
1047	536 Shell-Thick	INVSLE	1.8314	10.2155	-0.30	22.41
1047	536 Shell-Thick	INVSLE	1.9895	9.5970	-0.30	21.72
1047	536 Shell-Thick	INVSLE	1.1619	6.6569	-0.69	21.72
1047	536 Shell-Thick	INVSLE	0.4804	3.2408	-1.39	12.31
1047	536 Shell-Thick	INVSLE	0.8760	4.8886	-0.61	12.31
1047	536 Shell-Thick	INVSLE	0.9566	4.6155	-0.61	11.97
1047	536 Shell-Thick	INVSLE	0.5158	2.9982	-1.39	11.97
1047	536 Shell-Thick	INVSLU	1.7853	11.8359	-0.93	34.13
1047	536 Shell-Thick	INVSLU	2.9394	16.3927	-0.40	34.13
1047	536 Shell-Thick	INVSLU	3.1874	15.3738	-0.40	33.03
1047	536 Shell-Thick	INVSLU	1.9110	10.8996	-0.93	33.03
1047	536 Shell-Thick	INVSLU	0.6486	4.3751	-2.21	16.62
1047	536 Shell-Thick	INVSLU	1.1825	6.5996	-0.96	16.62
1047	536 Shell-Thick	INVSLU	1.2913	6.2309	-0.96	16.16
1047	536 Shell-Thick	INVSLU	0.6964	4.0475	-2.21	16.16
1048	537 Shell-Thick	INVSLE	0.9710	6.6283	-0.82	21.73
1048	537 Shell-Thick	INVSLE	1.6758	9.5247	-0.36	21.73
1048	537 Shell-Thick	INVSLE	1.8596	8.8354	-0.36	20.92
1048	537 Shell-Thick	INVSLE	1.0683	5.9974	-0.82	20.92
1048	537 Shell-Thick	INVSLE	0.4258	2.9829	-1.66	11.97
1048	537 Shell-Thick	INVSLE	0.8045	4.5823	-0.73	11.97
1048	537 Shell-Thick	INVSLE	0.8990	4.2752	-0.73	11.57
1048	537 Shell-Thick	INVSLE	0.4709	2.7092	-1.66	11.57
1048	537 Shell-Thick	INVSLU	1.6033	10.8555	-1.11	33.05
1048	537 Shell-Thick	INVSLU	2.6862	15.2561	-0.49	33.05
1048	537 Shell-Thick	INVSLU	2.9734	14.1235	-0.49	31.76
1048	537 Shell-Thick	INVSLU	1.7611	9.8105	-1.11	31.76
1048	537 Shell-Thick	INVSLU	0.5748	4.0269	-2.63	16.16
1048	537 Shell-Thick	INVSLU	1.0860	6.1861	-1.15	16.16
1048	537 Shell-Thick	INVSLU	1.2137	5.7716	-1.15	15.62
1048	537 Shell-Thick	INVSLU	0.6357	3.6574	-2.63	15.62
1049	538 Shell-Thick	INVSLE	0.8445	5.9686	-0.98	20.93
1049	538 Shell-Thick	INVSLE	1.5096	8.7495	-0.44	20.93
1049	538 Shell-Thick	INVSLE	1.7214	8.0006	-0.44	19.98
1049	538 Shell-Thick	INVSLE	0.9651	5.2812	-0.98	19.98

1049	538	Shell-Thick	INVSLE	0.3647	2.6934	-1.95	11.57
1049	538	Shell-Thick	INVSLE	0.7265	4.2353	-0.87	11.57
1049	538	Shell-Thick	INVSLE	0.8365	3.8983	-0.87	11.10
1049	538	Shell-Thick	INVSLE	0.4215	2.3922	-1.95	11.10
1049	538	Shell-Thick	INVSLU	1.4009	9.7665	-1.32	31.78
1049	538	Shell-Thick	INVSLU	2.4177	13.9843	-0.59	31.78
1049	538	Shell-Thick	INVSLU	2.7476	12.7577	-0.59	30.28
1049	538	Shell-Thick	INVSLU	1.5955	8.6313	-1.32	30.28
1049	538	Shell-Thick	INVSLU	0.4923	3.6361	-3.08	15.62
1049	538	Shell-Thick	INVSLU	0.9808	5.7176	-1.37	15.62
1049	538	Shell-Thick	INVSLU	1.1292	5.2626	-1.37	14.98
1049	538	Shell-Thick	INVSLU	0.5691	3.2295	-3.08	14.98
1050	539	Shell-Thick	INVSLE	0.7189	5.2541	-1.16	20.00
1050	539	Shell-Thick	INVSLE	1.3265	7.8995	-0.52	20.00
1050	539	Shell-Thick	INVSLE	1.5675	7.1034	-0.52	18.89
1050	539	Shell-Thick	INVSLE	0.8687	4.5198	-1.16	18.89
1050	539	Shell-Thick	INVSLE	0.3018	2.3768	-2.29	11.10
1050	539	Shell-Thick	INVSLE	0.6402	3.8505	-1.03	11.10
1050	539	Shell-Thick	INVSLE	0.7668	3.4882	-1.03	10.54
1050	539	Shell-Thick	INVSLE	0.3735	2.0516	-2.29	10.54
1050	539	Shell-Thick	INVSLU	1.2026	8.5907	-1.57	30.31
1050	539	Shell-Thick	INVSLU	2.1223	12.5947	-0.71	30.31
1050	539	Shell-Thick	INVSLU	2.4960	11.2957	-0.71	28.57
1050	539	Shell-Thick	INVSLU	1.4429	7.3820	-1.57	28.57
1050	539	Shell-Thick	INVSLU	0.4075	3.2086	-3.60	14.99
1050	539	Shell-Thick	INVSLU	0.8642	5.1982	-1.62	14.99
1050	539	Shell-Thick	INVSLU	1.0352	4.7091	-1.62	14.23
1050	539	Shell-Thick	INVSLU	0.5042	2.7696	-3.60	14.23
1051	540	Shell-Thick	INVSLE	0.5896	4.4962	-1.37	18.92
1051	540	Shell-Thick	INVSLE	1.1383	6.9853	-0.63	18.92
1051	540	Shell-Thick	INVSLE	1.4124	6.1604	-0.63	17.65
1051	540	Shell-Thick	INVSLE	0.7736	3.7324	-1.37	17.65
1051	540	Shell-Thick	INVSLE	0.2366	2.0374	-2.67	10.55
1051	540	Shell-Thick	INVSLE	0.5492	3.4315	-1.22	10.55
1051	540	Shell-Thick	INVSLE	0.6949	3.0511	-1.22	9.90
1051	540	Shell-Thick	INVSLE	0.3263	1.6948	-2.67	9.90
1051	540	Shell-Thick	INVSLU	0.9990	7.3476	-1.85	28.62
1051	540	Shell-Thick	INVSLU	1.8216	11.1064	-0.85	28.62
1051	540	Shell-Thick	INVSLU	2.2445	9.7661	-0.85	26.63
1051	540	Shell-Thick	INVSLU	1.2923	6.0952	-1.85	26.63
1051	540	Shell-Thick	INVSLU	0.3194	2.7504	-4.18	14.25
1051	540	Shell-Thick	INVSLU	0.7414	4.6326	-1.90	14.25
1051	540	Shell-Thick	INVSLU	0.9381	4.1190	-1.90	13.37
1051	540	Shell-Thick	INVSLU	0.4405	2.2880	-4.18	13.37
1052	541	Shell-Thick	INVSLE	0.4736	3.7153	-1.63	17.69
1052	541	Shell-Thick	INVSLE	0.9404	6.0231	-0.75	17.69
1052	541	Shell-Thick	INVSLE	1.2505	5.1893	-0.75	16.22
1052	541	Shell-Thick	INVSLE	0.7004	2.9381	-1.63	16.22
1052	541	Shell-Thick	INVSLE	0.1753	1.6833	-3.12	9.92
1052	541	Shell-Thick	INVSLE	0.4525	2.9840	-1.44	9.92
1052	541	Shell-Thick	INVSLE	0.6199	2.5940	-1.44	9.15
1052	541	Shell-Thick	INVSLE	0.2879	1.3304	-3.12	9.15
1052	541	Shell-Thick	INVSLU	0.8195	6.0716	-2.19	26.70
1052	541	Shell-Thick	INVSLU	1.5061	9.5474	-1.02	26.70
1052	541	Shell-Thick	INVSLU	1.9817	8.1989	-1.02	24.41
1052	541	Shell-Thick	INVSLU	1.1788	4.8024	-2.19	24.41
1052	541	Shell-Thick	INVSLU	0.2366	2.2724	-4.85	13.39
1052	541	Shell-Thick	INVSLU	0.6108	4.0284	-2.24	13.39
1052	541	Shell-Thick	INVSLU	0.8368	3.5019	-2.24	12.36
1052	541	Shell-Thick	INVSLU	0.3887	1.7960	-4.85	12.36
1053	542	Shell-Thick	INVSLE	0.3707	2.9304	-1.93	16.28
1053	542	Shell-Thick	INVSLE	0.7461	5.0302	-0.91	16.28
1053	542	Shell-Thick	INVSLE	1.0991	4.2163	-0.91	14.58
1053	542	Shell-Thick	INVSLE	0.6489	2.1676	-1.93	14.58
1053	542	Shell-Thick	INVSLE	0.1203	1.3231	-3.65	9.18
1053	542	Shell-Thick	INVSLE	0.3546	2.5147	-1.71	9.18
1053	542	Shell-Thick	INVSLE	0.5482	2.1280	-1.71	8.28
1053	542	Shell-Thick	INVSLE	0.2616	0.9719	-3.65	8.28
1053	542	Shell-Thick	INVSLU	0.6611	4.7942	-2.61	24.50
1053	542	Shell-Thick	INVSLU	1.2000	7.9473	-1.23	24.50
1053	542	Shell-Thick	INVSLU	1.7380	6.6379	-1.23	21.88
1053	542	Shell-Thick	INVSLU	1.0980	3.5540	-2.61	21.88
1053	542	Shell-Thick	INVSLU	0.1624	1.7862	-5.64	12.39
1053	542	Shell-Thick	INVSLU	0.4787	3.3948	-2.64	12.39
1053	542	Shell-Thick	INVSLU	0.7400	2.8728	-2.64	11.18
1053	542	Shell-Thick	INVSLU	0.3532	1.3121	-5.64	11.18
1054	543	Shell-Thick	INVSLE	0.3025	2.1735	-2.32	14.65
1054	543	Shell-Thick	INVSLE	0.5541	4.0321	-1.11	14.65

1054	543 Shell-Thick	INVSLE	0.9572	3.2691	-1.11	12.69
1054	543 Shell-Thick	INVSLE	0.6457	1.4517	-2.32	12.69
1054	543 Shell-Thick	INVSLE	0.0814	0.9713	-4.29	8.32
1054	543 Shell-Thick	INVSLE	0.2568	2.0343	-2.04	8.32
1054	543 Shell-Thick	INVSLE	0.4820	1.6665	-2.04	7.26
1054	543 Shell-Thick	INVSLE	0.2597	0.6355	-4.29	7.26
1054	543 Shell-Thick	INVSLU	0.5588	3.5675	-3.13	22.00
1054	543 Shell-Thick	INVSLU	0.8989	6.3487	-1.50	22.00
1054	543 Shell-Thick	INVSLU	1.5083	5.1276	-1.50	18.98
1054	543 Shell-Thick	INVSLU	1.0932	2.3983	-3.13	18.98
1054	543 Shell-Thick	INVSLU	0.1099	1.3113	-6.58	11.23
1054	543 Shell-Thick	INVSLU	0.3467	2.7463	-3.13	11.23
1054	543 Shell-Thick	INVSLU	0.6506	2.2498	-3.13	9.80
1054	543 Shell-Thick	INVSLU	0.3506	0.8579	-6.58	9.80
1055	544 Shell-Thick	INVSLE	0.2767	1.4758	-2.81	12.78
1055	544 Shell-Thick	INVSLE	0.3793	3.0557	-1.37	12.78
1055	544 Shell-Thick	INVSLE	0.8463	2.3862	-1.37	10.49
1055	544 Shell-Thick	INVSLE	0.7002	0.8369	-2.81	10.49
1055	544 Shell-Thick	INVSLE	0.0675	0.6444	-5.09	7.30
1055	544 Shell-Thick	INVSLE	0.1649	1.5556	-2.47	7.30
1055	544 Shell-Thick	INVSLE	0.4308	1.2288	-2.47	6.04
1055	544 Shell-Thick	INVSLE	0.2935	0.3451	-5.09	6.04
1055	544 Shell-Thick	INVSLU	0.5193	2.4399	-3.79	19.14
1055	544 Shell-Thick	INVSLU	0.6279	4.7951	-1.85	19.14
1055	544 Shell-Thick	INVSLU	1.3281	3.7285	-1.85	15.64
1055	544 Shell-Thick	INVSLU	1.1718	1.4072	-3.79	15.64
1055	544 Shell-Thick	INVSLU	0.0911	0.8700	-7.74	9.86
1055	544 Shell-Thick	INVSLU	0.2226	2.1001	-3.74	9.86
1055	544 Shell-Thick	INVSLU	0.5816	1.6589	-3.74	8.16
1055	544 Shell-Thick	INVSLU	0.3962	0.4658	-7.74	8.16
1056	545 Shell-Thick	INVSLE	0.4574	-0.0653	6.47	-0.13
1056	545 Shell-Thick	INVSLE	0.2485	0.2522	-0.12	-0.13
1056	545 Shell-Thick	INVSLE	-0.0786	0.3929	-0.12	5.61
1056	545 Shell-Thick	INVSLE	0.0845	0.0297	6.47	5.61
1056	545 Shell-Thick	INVSLE	0.2866	-0.1110	4.01	-0.21
1056	545 Shell-Thick	INVSLE	0.1591	0.1544	-0.18	-0.21
1056	545 Shell-Thick	INVSLE	-0.1195	0.2480	-0.18	3.49
1056	545 Shell-Thick	INVSLE	0.0652	0.0154	4.01	3.49
1056	545 Shell-Thick	INVSLU	0.6555	-0.0881	9.32	-0.17
1056	545 Shell-Thick	INVSLU	0.3522	0.3656	-0.16	-0.17
1056	545 Shell-Thick	INVSLU	-0.1061	0.5609	-0.16	8.07
1056	545 Shell-Thick	INVSLU	0.1170	0.0463	9.32	8.07
1056	545 Shell-Thick	INVSLU	0.3870	-0.1641	5.42	-0.31
1056	545 Shell-Thick	INVSLU	0.2147	0.2085	-0.25	-0.31
1056	545 Shell-Thick	INVSLU	-0.1674	0.3348	-0.25	4.71
1056	545 Shell-Thick	INVSLU	0.0880	0.0208	5.42	4.71
1057	546 Shell-Thick	INVSLE	0.3895	-0.1257	4.55	5.31
1057	546 Shell-Thick	INVSLE	0.3459	0.7809	-0.11	5.31
1057	546 Shell-Thick	INVSLE	0.0802	1.3496	-0.11	9.44
1057	546 Shell-Thick	INVSLE	0.1397	0.3517	4.55	9.44
1057	546 Shell-Thick	INVSLE	0.2066	-0.2041	2.71	3.32
1057	546 Shell-Thick	INVSLE	0.2137	0.4759	-0.17	3.32
1057	546 Shell-Thick	INVSLE	0.0460	0.8228	-0.17	5.79
1057	546 Shell-Thick	INVSLE	0.0677	0.2006	2.71	5.79
1057	546 Shell-Thick	INVSLU	0.6015	-0.1697	6.68	7.62
1057	546 Shell-Thick	INVSLU	0.4991	1.1345	-0.15	7.62
1057	546 Shell-Thick	INVSLU	0.1199	1.9606	-0.15	13.68
1057	546 Shell-Thick	INVSLU	0.2233	0.5269	6.68	13.68
1057	546 Shell-Thick	INVSLU	0.2790	-0.2951	3.66	4.48
1057	546 Shell-Thick	INVSLU	0.2885	0.6425	-0.25	4.48
1057	546 Shell-Thick	INVSLU	0.0621	1.1108	-0.25	7.81
1057	546 Shell-Thick	INVSLU	0.0914	0.2708	3.66	7.81
1058	547 Shell-Thick	INVSLE	0.3676	0.1965	3.52	9.23
1058	547 Shell-Thick	INVSLE	0.5267	1.6397	-0.11	9.23
1058	547 Shell-Thick	INVSLE	0.3076	2.5317	-0.11	12.47
1058	547 Shell-Thick	INVSLE	0.1938	1.0563	3.52	12.47
1058	547 Shell-Thick	INVSLE	0.1847	0.1135	2.03	5.67
1058	547 Shell-Thick	INVSLE	0.3156	0.9873	-0.18	5.67
1058	547 Shell-Thick	INVSLE	0.1807	1.4942	-0.18	7.55
1058	547 Shell-Thick	INVSLE	0.0930	0.5904	2.03	7.55
1058	547 Shell-Thick	INVSLU	0.5797	0.2927	5.24	13.36
1058	547 Shell-Thick	INVSLU	0.7715	2.3963	-0.15	13.36
1058	547 Shell-Thick	INVSLU	0.4547	3.7349	-0.15	18.18
1058	547 Shell-Thick	INVSLU	0.3107	1.5965	5.24	18.18
1058	547 Shell-Thick	INVSLU	0.2494	0.1532	2.74	7.66
1058	547 Shell-Thick	INVSLU	0.4261	1.3328	-0.27	7.66
1058	547 Shell-Thick	INVSLU	0.2439	2.0172	-0.27	10.19
1058	547 Shell-Thick	INVSLU	0.1255	0.7971	2.74	10.19

1059	548	Shell-Thick	INVSLE	0.4477	0.9590	2.84	12.32
1059	548	Shell-Thick	INVSLE	0.7582	2.7700	-0.11	12.32
1059	548	Shell-Thick	INVSLE	0.5676	3.8592	-0.11	14.97
1059	548	Shell-Thick	INVSLE	0.3261	2.0005	2.84	14.97
1059	548	Shell-Thick	INVSLE	0.2242	0.5385	1.60	7.47
1059	548	Shell-Thick	INVSLE	0.4412	1.6245	-0.19	7.47
1059	548	Shell-Thick	INVSLE	0.3263	2.2129	-0.19	8.96
1059	548	Shell-Thick	INVSLE	0.1636	1.0898	1.60	8.96
1059	548	Shell-Thick	INVSLU	0.7069	1.4465	4.28	17.95
1059	548	Shell-Thick	INVSLU	1.1258	4.0983	-0.14	17.95
1059	548	Shell-Thick	INVSLU	0.8475	5.7683	-0.14	21.94
1059	548	Shell-Thick	INVSLU	0.5146	3.0566	4.28	21.94
1059	548	Shell-Thick	INVSLU	0.3026	0.7270	2.16	10.08
1059	548	Shell-Thick	INVSLU	0.5956	2.1930	-0.28	10.08
1059	548	Shell-Thick	INVSLU	0.4405	2.9874	-0.28	12.10
1059	548	Shell-Thick	INVSLU	0.2208	1.4712	2.16	12.10
1060	549	Shell-Thick	INVSLE	0.5833	1.9425	2.34	14.86
1060	549	Shell-Thick	INVSLE	1.0175	4.0586	-0.10	14.86
1060	549	Shell-Thick	INVSLE	0.8452	5.2549	-0.10	17.08
1060	549	Shell-Thick	INVSLE	0.5020	3.0766	2.34	17.08
1060	549	Shell-Thick	INVSLE	0.2954	1.0606	1.29	8.91
1060	549	Shell-Thick	INVSLE	0.5765	2.3185	-0.19	8.91
1060	549	Shell-Thick	INVSLE	0.4751	2.9394	-0.19	10.13
1060	549	Shell-Thick	INVSLE	0.2572	1.6384	1.29	10.13
1060	549	Shell-Thick	INVSLU	0.9172	2.9653	3.57	21.77
1060	549	Shell-Thick	INVSLU	1.5290	6.0765	-0.14	21.77
1060	549	Shell-Thick	INVSLU	1.2743	7.9401	-0.14	25.14
1060	549	Shell-Thick	INVSLU	0.7858	4.7444	3.57	25.14
1060	549	Shell-Thick	INVSLU	0.3988	1.4318	1.74	12.02
1060	549	Shell-Thick	INVSLU	0.7782	3.1300	-0.29	12.02
1060	549	Shell-Thick	INVSLU	0.6414	3.9682	-0.29	13.67
1060	549	Shell-Thick	INVSLU	0.3473	2.2118	1.74	13.67
1061	550	Shell-Thick	INVSLE	0.7613	3.0477	1.96	17.00
1061	550	Shell-Thick	INVSLE	1.2874	5.4241	-9.942E-02	17.00
1061	550	Shell-Thick	INVSLE	1.1301	6.6632	-9.942E-02	18.88
1061	550	Shell-Thick	INVSLE	0.7092	4.2152	1.96	18.88
1061	550	Shell-Thick	INVSLE	0.3854	1.6248	1.06	10.09
1061	550	Shell-Thick	INVSLE	0.7128	3.0262	-0.19	10.09
1061	550	Shell-Thick	INVSLE	0.6221	3.6483	-0.19	11.10
1061	550	Shell-Thick	INVSLE	0.3631	2.2006	1.06	11.10
1061	550	Shell-Thick	INVSLU	1.1972	4.6978	3.01	25.01
1061	550	Shell-Thick	INVSLU	1.9537	8.2049	-0.13	25.01
1061	550	Shell-Thick	INVSLU	1.7192	10.1593	-0.13	27.90
1061	550	Shell-Thick	INVSLU	1.1107	6.5514	3.01	27.90
1061	550	Shell-Thick	INVSLU	0.5203	2.1934	1.43	13.62
1061	550	Shell-Thick	INVSLU	0.9623	4.0853	-0.29	13.62
1061	550	Shell-Thick	INVSLU	0.8399	4.9252	-0.29	14.99
1061	550	Shell-Thick	INVSLU	0.4902	2.9708	1.43	14.99
1062	551	Shell-Thick	INVSLE	0.9533	4.2062	1.66	18.83
1062	551	Shell-Thick	INVSLE	1.5577	6.8065	-9.393E-02	18.83
1062	551	Shell-Thick	INVSLE	1.4121	8.0423	-9.393E-02	20.44
1062	551	Shell-Thick	INVSLE	0.9245	5.3627	1.66	20.44
1062	551	Shell-Thick	INVSLE	0.4815	2.1973	0.88	11.08
1062	551	Shell-Thick	INVSLE	0.8454	3.7199	-0.18	11.08
1062	551	Shell-Thick	INVSLE	0.7633	4.3234	-0.18	11.93
1062	551	Shell-Thick	INVSLE	0.4710	2.7524	0.88	11.93
1062	551	Shell-Thick	INVSLU	1.5003	6.5357	2.57	27.81
1062	551	Shell-Thick	INVSLU	2.3837	10.3858	-0.13	27.81
1062	551	Shell-Thick	INVSLU	2.1644	12.3548	-0.13	30.31
1062	551	Shell-Thick	INVSLU	1.4504	8.3898	2.57	30.31
1062	551	Shell-Thick	INVSLU	0.6500	2.9664	1.19	14.95
1062	551	Shell-Thick	INVSLU	1.1413	5.0219	-0.28	14.95
1062	551	Shell-Thick	INVSLU	1.0304	5.8366	-0.28	16.11
1062	551	Shell-Thick	INVSLU	0.6358	3.7157	1.19	16.11
1063	552	Shell-Thick	INVSLE	1.1583	5.3688	1.41	20.40
1063	552	Shell-Thick	INVSLE	1.8198	8.1646	-8.749E-02	20.40
1063	552	Shell-Thick	INVSLE	1.6859	9.3639	-8.749E-02	21.79
1063	552	Shell-Thick	INVSLE	1.1460	6.4859	1.41	21.79
1063	552	Shell-Thick	INVSLE	0.5805	2.7564	0.74	11.92
1063	552	Shell-Thick	INVSLE	0.9709	4.3828	-0.17	11.92
1063	552	Shell-Thick	INVSLE	0.8967	4.9549	-0.17	12.64
1063	552	Shell-Thick	INVSLE	0.5781	3.2799	0.74	12.64
1063	552	Shell-Thick	INVSLU	1.8284	8.3982	2.20	30.25
1063	552	Shell-Thick	INVSLU	2.8041	12.5500	-0.12	30.25
1063	552	Shell-Thick	INVSLU	2.6012	14.4766	-0.12	32.41
1063	552	Shell-Thick	INVSLU	1.8045	10.2035	2.20	32.41
1063	552	Shell-Thick	INVSLU	0.7837	3.7212	1.00	16.09
1063	552	Shell-Thick	INVSLU	1.3107	5.9168	-0.27	16.09

1063	552 Shell-Thick	INVSLU	1.2105	6.6892	-0.27	17.06	
1063	552 Shell-Thick	INVSLU	0.7805	4.4279	1.00	17.06	
1064	553 Shell-Thick	INVSLE	1.3563	6.5012	1.21	21.77	
1064	553 Shell-Thick	INVSLE	2.0690	9.4672	-8.068E-02	21.77	
1064	553 Shell-Thick	INVSLE	1.9456	10.6056	-8.068E-02	22.97	
1064	553 Shell-Thick	INVSLE	1.3569	7.5559	1.21	22.97	
1064	553 Shell-Thick	INVSLE	0.6751	3.2885	0.62	12.63	
1064	553 Shell-Thick	INVSLE	1.0877	5.0040	-0.16	12.63	
1064	553 Shell-Thick	INVSLE	1.0204	5.5364	-0.16	13.24	
1064	553 Shell-Thick	INVSLE	0.6788	3.7730	0.62	13.24	
1064	553 Shell-Thick	INVSLU	2.1462	10.2269	1.88	32.37	
1064	553 Shell-Thick	INVSLU	3.2070	14.6427	-0.11	32.37	
1064	553 Shell-Thick	INVSLU	3.0184	16.4841	-0.11	34.25	
1064	553 Shell-Thick	INVSLU	2.1434	11.9427	1.88	34.25	
1064	553 Shell-Thick	INVSLU	0.9114	4.4394	0.84	17.05	
1064	553 Shell-Thick	INVSLU	1.4683	6.7554	-0.26	17.05	
1064	553 Shell-Thick	INVSLU	1.3776	7.4741	-0.26	17.88	
1064	553 Shell-Thick	INVSLU	0.9163	5.0935	0.84	17.88	
1065	554 Shell-Thick	INVSLE	1.5527	7.5783	1.03	22.96	
1065	554 Shell-Thick	INVSLE	2.3007	10.6935	-7.334E-02	22.96	
1065	554 Shell-Thick	INVSLE	2.1886	11.7531	-7.334E-02	23.99	
1065	554 Shell-Thick	INVSLE	1.5616	8.5562	1.03	23.99	
1065	554 Shell-Thick	INVSLE	0.7663	3.7845	0.52	13.24	
1065	554 Shell-Thick	INVSLE	1.1943	5.5771	-0.15	13.24	
1065	554 Shell-Thick	INVSLE	1.1340	6.0643	-0.15	13.76	
1065	554 Shell-Thick	INVSLE	0.7737	4.2260	0.52	13.76	
1065	554 Shell-Thick	INVSLU	2.4647	11.9776	1.61	34.22	
1065	554 Shell-Thick	INVSLU	3.5838	16.6265	-9.900E-02	34.22	
1065	554 Shell-Thick	INVSLU	3.4115	18.3499	-9.900E-02	35.84	
1065	554 Shell-Thick	INVSLU	2.4754	13.5775	1.61	35.84	
1065	554 Shell-Thick	INVSLU	1.0345	5.1091	0.71	17.87	
1065	554 Shell-Thick	INVSLU	1.6123	7.5291	-0.24	17.87	
1065	554 Shell-Thick	INVSLU	1.5309	8.1868	-0.24	18.58	
1065	554 Shell-Thick	INVSLU	1.0445	5.7052	0.71	18.58	
1066	555 Shell-Thick	INVSLE	1.7317	8.5816	0.87	23.98	
1066	555 Shell-Thick	INVSLE	2.5128	11.8265	-6.585E-02	23.98	
1066	555 Shell-Thick	INVSLE	2.4113	12.7940	-6.585E-02	24.87	
1066	555 Shell-Thick	INVSLE	1.7467	9.4706	0.87	24.87	
1066	555 Shell-Thick	INVSLE	0.8489	4.2389	0.44	13.76	
1066	555 Shell-Thick	INVSLE	1.2903	6.0978	-0.14	13.76	
1066	555 Shell-Thick	INVSLE	1.2365	6.5363	-0.14	14.21	
1066	555 Shell-Thick	INVSLE	0.8587	4.6345	0.44	14.21	
1066	555 Shell-Thick	INVSLU	2.7555	13.6175	1.37	35.83	
1066	555 Shell-Thick	INVSLU	3.9304	18.4697	-8.890E-02	35.83	
1066	555 Shell-Thick	INVSLU	3.7737	20.0506	-8.890E-02	37.23	
1066	555 Shell-Thick	INVSLU	2.7764	15.0786	1.37	37.23	
1066	555 Shell-Thick	INVSLU	1.1460	5.7225	0.59	18.58	
1066	555 Shell-Thick	INVSLU	1.7419	8.2320	-0.22	18.58	
1066	555 Shell-Thick	INVSLU	1.6693	8.8240	-0.22	19.18	
1066	555 Shell-Thick	INVSLU	1.1593	6.2566	0.59	19.18	
1067	556 Shell-Thick	INVSLE	1.9010	9.4979	0.73	24.87	
1067	556 Shell-Thick	INVSLE	2.7025	12.8557	-5.805E-02	24.87	
1067	556 Shell-Thick	INVSLE	2.6128	13.7210	-5.805E-02	25.62	
1067	556 Shell-Thick	INVSLE	1.9187	10.2907	0.73	25.62	
1067	556 Shell-Thick	INVSLE	0.9252	4.6479	0.37	14.21	
1067	556 Shell-Thick	INVSLE	1.3751	6.5639	-0.12	14.21	
1067	556 Shell-Thick	INVSLE	1.3280	6.9514	-0.12	14.58	
1067	556 Shell-Thick	INVSLE	0.9360	4.9964	0.37	14.58	
1067	556 Shell-Thick	INVSLU	3.0325	15.1221	1.16	37.23	
1067	556 Shell-Thick	INVSLU	4.2419	20.1519	-7.837E-02	37.23	
1067	556 Shell-Thick	INVSLU	4.1027	21.5712	-7.837E-02	38.41	
1067	556 Shell-Thick	INVSLU	3.0584	16.4301	1.16	38.41	
1067	556 Shell-Thick	INVSLU	1.2490	6.2747	0.49	19.18	
1067	556 Shell-Thick	INVSLU	1.8563	8.8612	-0.20	19.18	
1067	556 Shell-Thick	INVSLU	1.7928	9.3844	-0.20	19.68	
1067	556 Shell-Thick	INVSLU	1.2636	6.7452	0.49	19.68	
1068	557 Shell-Thick	INVSLE	2.0476	10.3172	0.61	25.62	
1068	557 Shell-Thick	INVSLE	2.8690	13.7716	-5.022E-02	25.62	
1068	557 Shell-Thick	INVSLE	2.7907	14.5273	-5.022E-02	26.25	
1068	557 Shell-Thick	INVSLE	2.0667	11.0073	0.61	26.25	
1068	557 Shell-Thick	INVSLE	0.9912	5.0093	0.30	14.58	
1068	557 Shell-Thick	INVSLE	1.4486	6.9737	-0.11	14.58	
1068	557 Shell-Thick	INVSLE	1.4079	7.3088	-0.11	14.89	
1068	557 Shell-Thick	INVSLE	1.0022	5.3097	0.30	14.89	
1068	557 Shell-Thick	INVSLU	3.2727	16.4723	0.96	38.42	
1068	557 Shell-Thick	INVSLU	4.5162	21.6546	-6.780E-02	38.42	
1068	557 Shell-Thick	INVSLU	4.3943	22.8981	-6.780E-02	39.42	
1068	557 Shell-Thick	INVSLU	3.3013	17.6144	0.96	39.42	

1068	557 Shell-Thick	INVSLU	1.3381	6.7626	0.41	19.69
1068	557 Shell-Thick	INVSLU	1.9556	9.4145	-0.17	19.69
1068	557 Shell-Thick	INVSLU	1.9007	9.8669	-0.17	20.11
1068	557 Shell-Thick	INVSLU	1.3529	7.1680	0.41	20.11
1069	558 Shell-Thick	INVSLE	2.1797	11.0324	0.50	26.25
1069	558 Shell-Thick	INVSLE	3.0109	14.5688	-4.220E-02	26.25
1069	558 Shell-Thick	INVSLE	2.9448	15.2095	-4.220E-02	26.77
1069	558 Shell-Thick	INVSLE	2.1980	11.6163	0.50	26.77
1069	558 Shell-Thick	INVSLE	1.0495	5.3217	0.24	14.90
1069	558 Shell-Thick	INVSLE	1.5106	7.3268	-9.033E-02	14.90
1069	558 Shell-Thick	INVSLE	1.4765	7.6086	-9.033E-02	15.15
1069	558 Shell-Thick	INVSLE	1.0597	5.5737	0.24	15.15
1069	558 Shell-Thick	INVSLU	3.4903	17.6548	0.79	39.42
1069	558 Shell-Thick	INVSLU	4.7506	22.9668	-5.698E-02	39.42
1069	558 Shell-Thick	INVSLU	4.6475	24.0236	-5.698E-02	40.24
1069	558 Shell-Thick	INVSLU	3.5179	18.6235	0.79	40.24
1069	558 Shell-Thick	INVSLU	1.4168	7.1843	0.33	20.11
1069	558 Shell-Thick	INVSLU	2.0393	9.8912	-0.15	20.11
1069	558 Shell-Thick	INVSLU	1.9933	10.2716	-0.15	20.45
1069	558 Shell-Thick	INVSLU	1.4306	7.5244	0.33	20.45
1070	559 Shell-Thick	INVSLE	2.2866	11.6381	0.39	26.78
1070	559 Shell-Thick	INVSLE	3.1275	15.2420	-3.419E-02	26.78
1070	559 Shell-Thick	INVSLE	3.0736	15.7637	-3.419E-02	27.18
1070	559 Shell-Thick	INVSLE	2.3031	12.1123	0.39	27.18
1070	559 Shell-Thick	INVSLE	1.0968	5.5840	0.19	15.15
1070	559 Shell-Thick	INVSLE	1.5611	7.6226	-7.368E-02	15.15
1070	559 Shell-Thick	INVSLE	1.5335	7.8506	-7.368E-02	15.35
1070	559 Shell-Thick	INVSLE	1.1059	5.7874	0.19	15.35
1070	559 Shell-Thick	INVSLU	3.6662	18.6585	0.62	40.25
1070	559 Shell-Thick	INVSLU	4.9440	24.0776	-4.616E-02	40.25
1070	559 Shell-Thick	INVSLU	4.8595	24.9399	-4.616E-02	40.90
1070	559 Shell-Thick	INVSLU	3.6915	19.4469	0.62	40.90
1070	559 Shell-Thick	INVSLU	1.4807	7.5384	0.26	20.46
1070	559 Shell-Thick	INVSLU	2.1075	10.2905	-0.12	20.46
1070	559 Shell-Thick	INVSLU	2.0702	10.5984	-0.12	20.72
1070	559 Shell-Thick	INVSLU	1.4929	7.8130	0.26	20.72
1071	560 Shell-Thick	INVSLE	2.3760	12.1308	0.29	27.19
1071	560 Shell-Thick	INVSLE	3.2184	15.7888	-2.608E-02	27.19
1071	560 Shell-Thick	INVSLE	3.1771	16.1886	-2.608E-02	27.50
1071	560 Shell-Thick	INVSLE	2.3894	12.4937	0.29	27.50
1071	560 Shell-Thick	INVSLE	1.1358	5.7961	0.14	15.36
1071	560 Shell-Thick	INVSLE	1.6002	7.8613	-5.646E-02	15.36
1071	560 Shell-Thick	INVSLE	1.5791	8.0352	-5.646E-02	15.50
1071	560 Shell-Thick	INVSLE	1.1431	5.9509	0.14	15.50
1071	560 Shell-Thick	INVSLU	3.8141	19.4766	0.47	40.91
1071	560 Shell-Thick	INVSLU	5.0949	24.9817	-3.521E-02	40.91
1071	560 Shell-Thick	INVSLU	5.0302	25.6436	-3.521E-02	41.40
1071	560 Shell-Thick	INVSLU	3.8348	20.0809	0.47	41.40
1071	560 Shell-Thick	INVSLU	1.5333	7.8247	0.19	20.73
1071	560 Shell-Thick	INVSLU	2.1602	10.6127	-9.168E-02	20.73
1071	560 Shell-Thick	INVSLU	2.1318	10.8475	-9.168E-02	20.93
1071	560 Shell-Thick	INVSLU	1.5431	8.0337	0.19	20.93
1072	561 Shell-Thick	INVSLE	2.4390	12.5073	0.20	27.50
1072	561 Shell-Thick	INVSLE	3.2832	16.2062	-1.798E-02	27.50
1072	561 Shell-Thick	INVSLE	3.2545	16.4823	-1.798E-02	27.71
1072	561 Shell-Thick	INVSLE	2.4488	12.7574	0.20	27.71
1072	561 Shell-Thick	INVSLE	1.1636	5.9573	9.714E-02	15.51
1072	561 Shell-Thick	INVSLE	1.6278	8.0426	-3.907E-02	15.51
1072	561 Shell-Thick	INVSLE	1.6132	8.1623	-3.907E-02	15.61
1072	561 Shell-Thick	INVSLE	1.1688	6.0636	9.714E-02	15.61
1072	561 Shell-Thick	INVSLU	3.9180	20.1028	0.32	41.41
1072	561 Shell-Thick	INVSLU	5.2028	25.6729	-2.428E-02	41.41
1072	561 Shell-Thick	INVSLU	5.1578	26.1303	-2.428E-02	41.74
1072	561 Shell-Thick	INVSLU	3.9332	20.5197	0.32	41.74
1072	561 Shell-Thick	INVSLU	1.5708	8.0424	0.13	20.94
1072	561 Shell-Thick	INVSLU	2.1975	10.8575	-6.353E-02	20.94
1072	561 Shell-Thick	INVSLU	2.1778	11.0191	-6.353E-02	21.07
1072	561 Shell-Thick	INVSLU	1.5779	8.1859	0.13	21.07
1073	562 Shell-Thick	INVSLE	2.4828	12.7665	0.11	27.71
1073	562 Shell-Thick	INVSLE	3.3217	16.4934	-9.841E-03	27.71
1073	562 Shell-Thick	INVSLE	3.3059	16.6444	-9.841E-03	27.83
1073	562 Shell-Thick	INVSLE	2.4884	12.9032	0.11	27.83
1073	562 Shell-Thick	INVSLE	1.1825	6.0679	5.277E-02	15.61
1073	562 Shell-Thick	INVSLE	1.6439	8.1669	-2.142E-02	15.61
1073	562 Shell-Thick	INVSLE	1.6359	8.2322	-2.142E-02	15.67
1073	562 Shell-Thick	INVSLE	1.1855	6.1258	5.277E-02	15.67
1073	562 Shell-Thick	INVSLU	3.9907	20.5345	0.17	41.75
1073	562 Shell-Thick	INVSLU	5.2672	26.1489	-1.328E-02	41.75

1073	562	Shell-Thick	INVSLU	5.2424	26.3992	-1.328E-02	41.93
1073	562	Shell-Thick	INVSLU	3.9993	20.7623	0.17	41.93
1073	562	Shell-Thick	INVSLU	1.5964	8.1916	7.124E-02	21.07
1073	562	Shell-Thick	INVSLU	2.2193	11.0254	-3.485E-02	21.07
1073	562	Shell-Thick	INVSLU	2.2085	11.1135	-3.485E-02	21.15
1073	562	Shell-Thick	INVSLU	1.6004	8.2699	7.124E-02	21.15
1074	563	Shell-Thick	INVSLE	2.4997	12.9067	1.924E-02	27.83
1074	563	Shell-Thick	INVSLE	3.3337	16.6486	-1.702E-03	27.83
1074	563	Shell-Thick	INVSLE	3.3308	16.6739	-1.702E-03	27.85
1074	563	Shell-Thick	INVSLE	2.5008	12.9293	1.924E-02	27.85
1074	563	Shell-Thick	INVSLE	1.1903	6.1275	9.362E-03	15.67
1074	563	Shell-Thick	INVSLE	1.6486	8.2341	-3.707E-03	15.67
1074	563	Shell-Thick	INVSLE	1.6472	8.2450	-3.707E-03	15.68
1074	563	Shell-Thick	INVSLE	1.1908	6.1371	9.362E-03	15.68
1074	563	Shell-Thick	INVSLU	4.0183	20.7681	3.070E-02	41.93
1074	563	Shell-Thick	INVSLU	5.2877	26.4064	-2.297E-03	41.93
1074	563	Shell-Thick	INVSLU	5.2832	26.4483	-2.297E-03	41.96
1074	563	Shell-Thick	INVSLU	4.0199	20.8058	3.070E-02	41.96
1074	563	Shell-Thick	INVSLU	1.6069	8.2721	1.264E-02	21.15
1074	563	Shell-Thick	INVSLU	2.2256	11.1160	-6.033E-03	21.15
1074	563	Shell-Thick	INVSLU	2.2237	11.1307	-6.033E-03	21.16
1074	563	Shell-Thick	INVSLU	1.6076	8.2851	1.264E-02	21.16
1075	564	Shell-Thick	INVSLE	2.4967	12.9280	-3.388E-02	27.85
1075	564	Shell-Thick	INVSLE	3.3194	16.6721	1.402E-02	27.85
1075	564	Shell-Thick	INVSLE	3.3294	16.5716	1.402E-02	27.77
1075	564	Shell-Thick	INVSLE	2.4932	12.8366	-3.388E-02	27.77
1075	564	Shell-Thick	INVSLE	1.1890	6.1364	-6.951E-02	15.68
1075	564	Shell-Thick	INVSLE	1.6420	8.2442	6.437E-03	15.68
1075	564	Shell-Thick	INVSLE	1.6470	8.2008	6.437E-03	15.64
1075	564	Shell-Thick	INVSLE	1.1871	6.0977	-6.951E-02	15.64
1075	564	Shell-Thick	INVSLU	4.0132	20.8037	-4.574E-02	41.96
1075	564	Shell-Thick	INVSLU	5.2645	26.4453	2.281E-02	41.96
1075	564	Shell-Thick	INVSLU	5.2803	26.2786	2.281E-02	41.85
1075	564	Shell-Thick	INVSLU	4.0078	20.6512	-4.574E-02	41.85
1075	564	Shell-Thick	INVSLU	1.6051	8.2842	-0.11	21.16
1075	564	Shell-Thick	INVSLU	2.2166	11.1297	8.690E-03	21.16
1075	564	Shell-Thick	INVSLU	2.2235	11.0710	8.690E-03	21.11
1075	564	Shell-Thick	INVSLU	1.6026	8.2319	-0.11	21.11
1076	565	Shell-Thick	INVSLE	2.4665	12.8296	-7.773E-02	27.77
1076	565	Shell-Thick	INVSLE	3.2785	16.5631	3.172E-02	27.77
1076	565	Shell-Thick	INVSLE	3.3015	16.3371	3.172E-02	27.60
1076	565	Shell-Thick	INVSLE	2.4586	12.6245	-7.773E-02	27.60
1076	565	Shell-Thick	INVSLE	1.1764	6.0944	-0.16	15.64
1076	565	Shell-Thick	INVSLE	1.6238	8.1972	1.458E-02	15.64
1076	565	Shell-Thick	INVSLE	1.6355	8.0994	1.458E-02	15.56
1076	565	Shell-Thick	INVSLE	1.1721	6.0073	-0.16	15.56
1076	565	Shell-Thick	INVSLU	3.9626	20.6399	-0.10	41.84
1076	565	Shell-Thick	INVSLU	5.1974	26.2643	5.159E-02	41.84
1076	565	Shell-Thick	INVSLU	5.2334	25.8898	5.159E-02	41.57
1076	565	Shell-Thick	INVSLU	3.9505	20.2979	-0.10	41.57
1076	565	Shell-Thick	INVSLU	1.5881	8.2275	-0.25	21.11
1076	565	Shell-Thick	INVSLU	2.1922	11.0662	1.969E-02	21.11
1076	565	Shell-Thick	INVSLU	2.2079	10.9342	1.969E-02	21.00
1076	565	Shell-Thick	INVSLU	1.5824	8.1099	-0.25	21.00
1077	566	Shell-Thick	INVSLE	2.4164	12.6129	-0.12	27.60
1077	566	Shell-Thick	INVSLE	3.2116	16.3223	4.918E-02	27.60
1077	566	Shell-Thick	INVSLE	3.2472	15.9720	4.918E-02	27.34
1077	566	Shell-Thick	INVSLE	2.4047	12.2945	-0.12	27.34
1077	566	Shell-Thick	INVSLE	1.1547	6.0019	-0.25	15.56
1077	566	Shell-Thick	INVSLE	1.5943	8.0931	2.269E-02	15.56
1077	566	Shell-Thick	INVSLE	1.6125	7.9410	2.269E-02	15.43
1077	566	Shell-Thick	INVSLE	1.1483	5.8662	-0.25	15.43
1077	566	Shell-Thick	INVSLU	3.8796	20.2792	-0.17	41.57
1077	566	Shell-Thick	INVSLU	5.0871	25.8650	7.991E-02	41.57
1077	566	Shell-Thick	INVSLU	5.1429	25.2849	7.991E-02	41.15
1077	566	Shell-Thick	INVSLU	3.8615	19.7488	-0.17	41.15
1077	566	Shell-Thick	INVSLU	1.5588	8.1025	-0.40	21.00
1077	566	Shell-Thick	INVSLU	2.1523	10.9257	3.063E-02	21.00
1077	566	Shell-Thick	INVSLU	2.1769	10.7204	3.063E-02	20.83
1077	566	Shell-Thick	INVSLU	1.5503	7.9194	-0.40	20.83
1078	567	Shell-Thick	INVSLE	2.3393	12.2779	-0.17	27.33
1078	567	Shell-Thick	INVSLE	3.1185	15.9498	6.652E-02	27.33
1078	567	Shell-Thick	INVSLE	3.1668	15.4767	6.652E-02	26.97
1078	567	Shell-Thick	INVSLE	2.3241	11.8476	-0.17	26.97
1078	567	Shell-Thick	INVSLE	1.1216	5.8584	-0.35	15.42
1078	567	Shell-Thick	INVSLE	1.5533	7.9316	3.080E-02	15.42
1078	567	Shell-Thick	INVSLE	1.5781	7.7253	3.080E-02	15.25
1078	567	Shell-Thick	INVSLE	1.1133	5.6743	-0.35	15.25

1078	567	Shell-Thick	INVSLU	3.7514	19.7220	-0.23	41.14
1078	567	Shell-Thick	INVSLU	4.9335	25.2478	0.11	41.14
1078	567	Shell-Thick	INVSLU	5.0092	24.4654	0.11	40.56
1078	567	Shell-Thick	INVSLU	3.7282	19.0062	-0.23	40.56
1078	567	Shell-Thick	INVSLU	1.5141	7.9089	-0.55	20.82
1078	567	Shell-Thick	INVSLU	2.0970	10.7077	4.159E-02	20.82
1078	567	Shell-Thick	INVSLU	2.1304	10.4292	4.159E-02	20.58
1078	567	Shell-Thick	INVSLU	1.5030	7.6604	-0.55	20.58
1079	568	Shell-Thick	INVSLE	2.2431	11.8273	-0.22	26.96
1079	568	Shell-Thick	INVSLE	2.9999	15.4474	8.333E-02	26.96
1079	568	Shell-Thick	INVSLE	3.0604	14.8541	8.333E-02	26.49
1079	568	Shell-Thick	INVSLE	2.2257	11.2865	-0.22	26.49
1079	568	Shell-Thick	INVSLE	1.0795	5.6647	-0.45	15.24
1079	568	Shell-Thick	INVSLE	1.5009	7.7127	3.883E-02	15.24
1079	568	Shell-Thick	INVSLE	1.5321	7.4525	3.883E-02	15.02
1079	568	Shell-Thick	INVSLE	1.0698	5.4320	-0.45	15.02
1079	568	Shell-Thick	INVSLU	3.5924	18.9737	-0.30	40.55
1079	568	Shell-Thick	INVSLU	4.7381	24.4166	0.13	40.55
1079	568	Shell-Thick	INVSLU	4.8326	23.4371	0.13	39.80
1079	568	Shell-Thick	INVSLU	3.5661	18.0756	-0.30	39.80
1079	568	Shell-Thick	INVSLU	1.4573	7.6474	-0.71	20.58
1079	568	Shell-Thick	INVSLU	2.0263	10.4122	5.242E-02	20.58
1079	568	Shell-Thick	INVSLU	2.0683	10.0609	5.242E-02	20.27
1079	568	Shell-Thick	INVSLU	1.4442	7.3331	-0.71	20.27
1080	569	Shell-Thick	INVSLE	2.1205	11.2625	-0.28	26.49
1080	569	Shell-Thick	INVSLE	2.8558	14.8161	9.988E-02	26.49
1080	569	Shell-Thick	INVSLE	2.9286	14.1060	9.988E-02	25.91
1080	569	Shell-Thick	INVSLE	2.1017	10.6141	-0.28	25.91
1080	569	Shell-Thick	INVSLE	1.0259	5.4205	-0.56	15.01
1080	569	Shell-Thick	INVSLE	1.4370	7.4361	4.686E-02	15.01
1080	569	Shell-Thick	INVSLE	1.4747	7.1223	4.686E-02	14.73
1080	569	Shell-Thick	INVSLE	1.0153	5.1393	-0.56	14.73
1080	569	Shell-Thick	INVSLU	3.3898	18.0370	-0.37	39.80
1080	569	Shell-Thick	INVSLU	4.5011	23.3741	0.16	39.80
1080	569	Shell-Thick	INVSLU	4.6146	22.2044	0.16	38.88
1080	569	Shell-Thick	INVSLU	3.3617	16.9628	-0.37	38.88
1080	569	Shell-Thick	INVSLU	1.3850	7.3177	-0.89	20.26
1080	569	Shell-Thick	INVSLU	1.9399	10.0387	6.326E-02	20.26
1080	569	Shell-Thick	INVSLU	1.9908	9.6151	6.326E-02	19.88
1080	569	Shell-Thick	INVSLU	1.3706	6.9381	-0.89	19.88
1081	570	Shell-Thick	INVSLE	1.9806	10.5883	-0.34	25.90
1081	570	Shell-Thick	INVSLE	2.6875	14.0593	0.12	25.90
1081	570	Shell-Thick	INVSLE	2.7718	13.2373	0.12	25.21
1081	570	Shell-Thick	INVSLE	1.9625	9.8353	-0.34	25.21
1081	570	Shell-Thick	INVSLE	0.9636	5.1268	-0.68	14.72
1081	570	Shell-Thick	INVSLE	1.3617	7.1019	5.473E-02	14.72
1081	570	Shell-Thick	INVSLE	1.4058	6.7353	5.473E-02	14.38
1081	570	Shell-Thick	INVSLE	0.9529	4.7972	-0.68	14.38
1081	570	Shell-Thick	INVSLU	3.1600	16.9216	-0.46	38.87
1081	570	Shell-Thick	INVSLU	4.2250	22.1273	0.19	38.87
1081	570	Shell-Thick	INVSLU	4.3559	20.7772	0.19	37.77
1081	570	Shell-Thick	INVSLU	3.1334	15.6777	-0.46	37.77
1081	570	Shell-Thick	INVSLU	1.3009	6.9212	-1.07	19.88
1081	570	Shell-Thick	INVSLU	1.8382	9.5875	7.388E-02	19.88
1081	570	Shell-Thick	INVSLU	1.8978	9.0926	7.388E-02	19.41
1081	570	Shell-Thick	INVSLU	1.2864	6.4763	-1.07	19.41
1082	571	Shell-Thick	INVSLE	1.8162	9.8081	-0.41	25.21
1082	571	Shell-Thick	INVSLE	2.4952	13.1800	0.13	25.21
1082	571	Shell-Thick	INVSLE	2.5913	12.2525	0.13	24.38
1082	571	Shell-Thick	INVSLE	1.8000	8.9563	-0.41	24.38
1082	571	Shell-Thick	INVSLE	0.8902	4.7839	-0.81	14.38
1082	571	Shell-Thick	INVSLE	1.2748	6.7098	6.257E-02	14.38
1082	571	Shell-Thick	INVSLE	1.3255	6.2916	6.257E-02	13.97
1082	571	Shell-Thick	INVSLE	0.8799	4.4068	-0.81	13.97
1082	571	Shell-Thick	INVSLU	2.8900	15.6342	-0.55	37.77
1082	571	Shell-Thick	INVSLU	3.9105	20.6829	0.21	37.77
1082	571	Shell-Thick	INVSLU	4.0591	19.1649	0.21	36.47
1082	571	Shell-Thick	INVSLU	2.8669	14.2320	-0.55	36.47
1082	571	Shell-Thick	INVSLU	1.2017	6.4583	-1.28	19.41
1082	571	Shell-Thick	INVSLU	1.7210	9.0583	8.447E-02	19.41
1082	571	Shell-Thick	INVSLU	1.7894	8.4937	8.447E-02	18.85
1082	571	Shell-Thick	INVSLU	1.1879	5.9491	-1.28	18.85
1083	572	Shell-Thick	INVSLE	1.6377	8.9302	-0.48	24.39
1083	572	Shell-Thick	INVSLE	2.2810	12.1841	0.14	24.39
1083	572	Shell-Thick	INVSLE	2.3878	11.1601	0.14	23.42
1083	572	Shell-Thick	INVSLE	1.6265	7.9858	-0.48	23.42
1083	572	Shell-Thick	INVSLE	0.8087	4.3937	-0.96	13.96
1083	572	Shell-Thick	INVSLE	1.1768	6.2607	7.012E-02	13.96

1083	572	Shell-Thick	INVSLE	1.2339	5.7927	7.012E-02	13.48
1083	572	Shell-Thick	INVSLE	0.8003	3.9699	-0.96	13.48
1083	572	Shell-Thick	INVSLU	2.5991	14.1908	-0.65	36.47
1083	572	Shell-Thick	INVSLU	3.5616	19.0531	0.23	36.47
1083	572	Shell-Thick	INVSLU	3.7259	17.3843	0.23	34.95
1083	572	Shell-Thick	INVSLU	2.5846	12.6428	-0.65	34.95
1083	572	Shell-Thick	INVSLU	1.0917	5.9315	-1.50	18.85
1083	572	Shell-Thick	INVSLU	1.5886	8.4519	9.467E-02	18.85
1083	572	Shell-Thick	INVSLU	1.6658	7.8201	9.467E-02	18.19
1083	572	Shell-Thick	INVSLU	1.0805	5.3593	-1.50	18.19
1084	573	Shell-Thick	INVSLE	1.4385	7.9618	-0.58	23.43
1084	573	Shell-Thick	INVSLE	2.0457	11.0781	0.16	23.43
1084	573	Shell-Thick	INVSLE	2.1638	9.9694	0.16	22.31
1084	573	Shell-Thick	INVSLE	1.4343	6.9357	-0.58	22.31
1084	573	Shell-Thick	INVSLE	0.7170	3.9576	-1.12	13.48
1084	573	Shell-Thick	INVSLE	1.0675	5.7550	7.757E-02	13.48
1084	573	Shell-Thick	INVSLE	1.1315	5.2402	7.757E-02	12.91
1084	573	Shell-Thick	INVSLE	0.7117	3.4896	-1.12	12.91
1084	573	Shell-Thick	INVSLU	2.2753	12.6051	-0.78	34.97
1084	573	Shell-Thick	INVSLU	3.1800	17.2509	0.25	34.97
1084	573	Shell-Thick	INVSLU	3.3609	15.4535	0.25	33.21
1084	573	Shell-Thick	INVSLU	2.2723	10.9318	-0.78	33.21
1084	573	Shell-Thick	INVSLU	0.9679	5.3428	-1.76	18.20
1084	573	Shell-Thick	INVSLU	1.4412	7.7692	0.10	18.20
1084	573	Shell-Thick	INVSLU	1.5275	7.0742	0.10	17.42
1084	573	Shell-Thick	INVSLU	0.9608	4.7109	-1.76	17.42
1085	574	Shell-Thick	INVSLE	1.2311	6.9174	-0.68	22.33
1085	574	Shell-Thick	INVSLE	1.7926	9.8728	0.17	22.33
1085	574	Shell-Thick	INVSLE	1.9210	8.6953	0.17	21.02
1085	574	Shell-Thick	INVSLE	1.2383	5.8219	-0.68	21.02
1085	574	Shell-Thick	INVSLE	0.6188	3.4797	-1.32	12.91
1085	574	Shell-Thick	INVSLE	0.9479	5.1947	8.452E-02	12.91
1085	574	Shell-Thick	INVSLE	1.0186	4.6377	8.452E-02	12.24
1085	574	Shell-Thick	INVSLE	0.6187	2.9706	-1.32	12.24
1085	574	Shell-Thick	INVSLU	1.9412	10.9038	-0.92	33.24
1085	574	Shell-Thick	INVSLU	2.7723	15.2976	0.27	33.24
1085	574	Shell-Thick	INVSLU	2.9674	13.4006	0.27	31.21
1085	574	Shell-Thick	INVSLU	1.9568	9.1283	-0.92	31.21
1085	574	Shell-Thick	INVSLU	0.8354	4.6976	-2.05	17.43
1085	574	Shell-Thick	INVSLU	1.2796	7.0129	0.11	17.43
1085	574	Shell-Thick	INVSLU	1.3751	6.2609	0.11	16.52
1085	574	Shell-Thick	INVSLU	0.8353	4.0103	-2.05	16.52
1086	575	Shell-Thick	INVSLE	1.0112	5.8114	-0.81	21.05
1086	575	Shell-Thick	INVSLE	1.5238	8.5809	0.18	21.05
1086	575	Shell-Thick	INVSLE	1.6636	7.3562	0.18	19.54
1086	575	Shell-Thick	INVSLE	1.0328	4.6667	-0.81	19.54
1086	575	Shell-Thick	INVSLE	0.5134	2.9644	-1.55	12.25
1086	575	Shell-Thick	INVSLE	0.8182	4.5827	9.116E-02	12.25
1086	575	Shell-Thick	INVSLE	0.8964	3.9903	9.116E-02	11.46
1086	575	Shell-Thick	INVSLE	0.5203	2.4204	-1.55	11.46
1086	575	Shell-Thick	INVSLU	1.5884	9.1129	-1.10	31.26
1086	575	Shell-Thick	INVSLU	2.3421	13.2173	0.28	31.26
1086	575	Shell-Thick	INVSLU	2.5532	11.2592	0.28	28.92
1086	575	Shell-Thick	INVSLU	1.6271	7.2716	-1.10	28.92
1086	575	Shell-Thick	INVSLU	0.6931	4.0020	-2.40	16.54
1086	575	Shell-Thick	INVSLU	1.1045	6.1866	0.12	16.54
1086	575	Shell-Thick	INVSLU	1.2102	5.3870	0.12	15.47
1086	575	Shell-Thick	INVSLU	0.7024	3.2675	-2.40	15.47
1087	576	Shell-Thick	INVSLE	0.7936	4.6693	-0.98	19.59
1087	576	Shell-Thick	INVSLE	1.2448	7.2220	0.18	19.59
1087	576	Shell-Thick	INVSLE	1.3955	5.9792	0.18	17.83
1087	576	Shell-Thick	INVSLE	0.8361	3.5000	-0.98	17.83
1087	576	Shell-Thick	INVSLE	0.4055	2.4203	-1.82	11.48
1087	576	Shell-Thick	INVSLE	0.6800	3.9241	9.695E-02	11.48
1087	576	Shell-Thick	INVSLE	0.7662	3.3072	9.695E-02	10.54
1087	576	Shell-Thick	INVSLE	0.4228	1.8501	-1.82	10.54
1087	576	Shell-Thick	INVSLU	1.2437	7.2772	-1.32	29.00
1087	576	Shell-Thick	INVSLU	1.8997	11.0463	0.29	29.00
1087	576	Shell-Thick	INVSLU	2.1251	9.0778	0.29	26.29
1087	576	Shell-Thick	INVSLU	1.3154	5.4132	-1.32	26.29
1087	576	Shell-Thick	INVSLU	0.5474	3.2674	-2.81	15.50
1087	576	Shell-Thick	INVSLU	0.9180	5.2976	0.13	15.50
1087	576	Shell-Thick	INVSLU	1.0344	4.4647	0.13	14.23
1087	576	Shell-Thick	INVSLU	0.5708	2.4977	-2.81	14.23
1088	577	Shell-Thick	INVSLE	0.5797	3.5198	-1.18	17.90
1088	577	Shell-Thick	INVSLE	0.9600	5.8210	0.19	17.90
1088	577	Shell-Thick	INVSLE	1.1243	4.6004	0.19	15.84
1088	577	Shell-Thick	INVSLE	0.6482	2.3645	-1.18	15.84

1088	577	Shell-Thick	INVSLE	0.2974	1.8589	-2.17	10.57
1088	577	Shell-Thick	INVSLE	0.5350	3.2271	0.10	10.57
1088	577	Shell-Thick	INVSLE	0.6309	2.6021	0.10	9.45
1088	577	Shell-Thick	INVSLE	0.3285	1.2780	-2.17	9.45
1088	577	Shell-Thick	INVSLU	0.9071	5.4457	-1.59	26.40
1088	577	Shell-Thick	INVSLU	1.4528	8.8291	0.29	26.40
1088	577	Shell-Thick	INVSLU	1.6966	6.9177	0.29	23.25
1088	577	Shell-Thick	INVSLU	1.0190	3.6245	-1.59	23.25
1088	577	Shell-Thick	INVSLU	0.4015	2.5095	-3.31	14.27
1088	577	Shell-Thick	INVSLU	0.7222	4.3565	0.14	14.27
1088	577	Shell-Thick	INVSLU	0.8517	3.5128	0.14	12.76
1088	577	Shell-Thick	INVSLU	0.4435	1.7253	-3.31	12.76
1089	578	Shell-Thick	INVSLE	0.3893	2.4094	-1.45	15.94
1089	578	Shell-Thick	INVSLE	0.6787	4.4146	0.19	15.94
1089	578	Shell-Thick	INVSLE	0.8585	3.2714	0.19	13.50
1089	578	Shell-Thick	INVSLE	0.4934	1.3184	-1.45	13.50
1089	578	Shell-Thick	INVSLE	0.1973	1.2999	-2.60	9.50
1089	578	Shell-Thick	INVSLE	0.3865	2.5050	0.11	9.50
1089	578	Shell-Thick	INVSLE	0.4940	1.8976	0.11	8.14
1089	578	Shell-Thick	INVSLE	0.2478	0.7314	-2.60	8.14
1089	578	Shell-Thick	INVSLU	0.6120	3.6961	-1.95	23.41
1089	578	Shell-Thick	INVSLU	1.0175	6.6289	0.28	23.41
1089	578	Shell-Thick	INVSLU	1.2812	4.8646	0.28	19.72
1089	578	Shell-Thick	INVSLU	0.7783	1.9991	-1.95	19.72
1089	578	Shell-Thick	INVSLU	0.2663	1.7549	-3.93	12.82
1089	578	Shell-Thick	INVSLU	0.5218	3.3818	0.14	12.82
1089	578	Shell-Thick	INVSLU	0.6669	2.5617	0.14	10.99
1089	578	Shell-Thick	INVSLU	0.3345	0.9874	-3.93	10.99
1263	579	Shell-Thick	INVSLE	8.3512	0.5571	-7.11	-0.15
1263	579	Shell-Thick	INVSLE	7.7089	0.5223	-7.17	-0.15
1263	579	Shell-Thick	INVSLE	10.0853	0.5355	-7.17	-0.12
1263	579	Shell-Thick	INVSLE	10.7705	0.5401	-7.11	-0.12
1263	579	Shell-Thick	INVSLE	3.1837	0.2076	-17.95	-0.23
1263	579	Shell-Thick	INVSLE	2.9477	0.1743	-17.98	-0.23
1263	579	Shell-Thick	INVSLE	3.8968	0.1984	-17.98	-0.18
1263	579	Shell-Thick	INVSLE	4.1416	0.2255	-17.95	-0.18
1263	579	Shell-Thick	INVSLU	14.3434	0.9625	-9.60	-5.617E-02
1263	579	Shell-Thick	INVSLU	13.2300	0.9259	-9.68	-5.617E-02
1263	579	Shell-Thick	INVSLU	17.2615	0.9263	-9.68	-4.535E-02
1263	579	Shell-Thick	INVSLU	18.4575	0.9049	-9.60	-4.535E-02
1263	579	Shell-Thick	INVSLU	4.2981	0.2802	-30.51	-0.31
1263	579	Shell-Thick	INVSLU	3.9794	0.2353	-30.52	-0.31
1263	579	Shell-Thick	INVSLU	5.2607	0.2679	-30.52	-0.24
1263	579	Shell-Thick	INVSLU	5.5911	0.3045	-30.51	-0.24
1264	580	Shell-Thick	INVSLE	12.1387	0.7277	-7.53	-0.21
1264	580	Shell-Thick	INVSLE	10.3788	0.6802	-7.57	-0.21
1264	580	Shell-Thick	INVSLE	12.9569	1.6141	-7.57	-0.17
1264	580	Shell-Thick	INVSLE	14.7544	1.6352	-7.53	-0.17
1264	580	Shell-Thick	INVSLE	4.4546	0.2543	-19.47	-0.21
1264	580	Shell-Thick	INVSLE	3.8509	0.2231	-19.44	-0.21
1264	580	Shell-Thick	INVSLE	4.8554	0.5938	-19.44	-0.24
1264	580	Shell-Thick	INVSLE	5.4651	0.6208	-19.47	-0.24
1264	580	Shell-Thick	INVSLU	21.0493	1.2767	-10.16	-0.21
1264	580	Shell-Thick	INVSLU	17.9487	1.2103	-10.22	-0.21
1264	580	Shell-Thick	INVSLU	22.3517	2.7972	-10.22	-0.24
1264	580	Shell-Thick	INVSLU	25.5266	2.8114	-10.16	-0.24
1264	580	Shell-Thick	INVSLU	6.0137	0.3434	-33.33	-0.29
1264	580	Shell-Thick	INVSLU	5.1988	0.3011	-33.20	-0.29
1264	580	Shell-Thick	INVSLU	6.5548	0.8016	-33.20	-0.34
1264	580	Shell-Thick	INVSLU	7.3779	0.8381	-33.33	-0.34
1265	581	Shell-Thick	INVSLE	14.7325	1.8111	-7.76	-3.555E-02
1265	581	Shell-Thick	INVSLE	14.8761	1.8175	-7.90	-3.555E-02
1265	581	Shell-Thick	INVSLE	17.6745	3.5144	-7.90	4.139E-02
1265	581	Shell-Thick	INVSLE	17.5103	3.5225	-7.76	4.139E-02
1265	581	Shell-Thick	INVSLE	5.0378	0.6104	-20.86	-8.805E-02
1265	581	Shell-Thick	INVSLE	5.3267	0.6130	-20.92	-8.805E-02
1265	581	Shell-Thick	INVSLE	6.3803	1.2407	-20.92	2.423E-02
1265	581	Shell-Thick	INVSLE	6.0741	1.2502	-20.86	2.423E-02
1265	581	Shell-Thick	INVSLU	25.9747	3.2035	-10.47	2.532E-02
1265	581	Shell-Thick	INVSLU	25.9498	3.2144	-10.67	2.532E-02
1265	581	Shell-Thick	INVSLU	30.7716	6.1511	-10.67	5.587E-02
1265	581	Shell-Thick	INVSLU	30.7719	6.1576	-10.47	5.587E-02
1265	581	Shell-Thick	INVSLU	6.8010	0.8241	-36.05	-0.12
1265	581	Shell-Thick	INVSLU	7.1910	0.8275	-36.02	-0.12
1265	581	Shell-Thick	INVSLU	8.6134	1.6749	-36.02	4.345E-03
1265	581	Shell-Thick	INVSLU	8.2001	1.6878	-36.05	4.345E-03
1266	582	Shell-Thick	INVSLE	7.8620	1.1166	-7.18	-0.35
1266	582	Shell-Thick	INVSLE	7.1552	1.0397	-7.27	-0.35

1266	582	Shell-Thick	INVSLE	9.5294	1.6967	-7.27	-0.41
1266	582	Shell-Thick	INVSLE	10.2884	1.7226	-7.18	-0.41
1266	582	Shell-Thick	INVSLE	3.0108	0.4339	-18.02	-0.57
1266	582	Shell-Thick	INVSLE	2.7548	0.3585	-17.96	-0.57
1266	582	Shell-Thick	INVSLE	3.7141	0.6071	-17.96	-0.48
1266	582	Shell-Thick	INVSLE	3.9805	0.6722	-18.02	-0.48
1266	582	Shell-Thick	INVSLU	13.4876	1.9082	-9.70	-0.11
1266	582	Shell-Thick	INVSLU	12.2580	1.8295	-9.82	-0.11
1266	582	Shell-Thick	INVSLU	16.2731	2.9602	-9.82	-0.33
1266	582	Shell-Thick	INVSLU	17.6033	2.9407	-9.70	-0.33
1266	582	Shell-Thick	INVSLU	4.0645	0.5858	-30.58	-0.76
1266	582	Shell-Thick	INVSLU	3.7190	0.4840	-30.35	-0.76
1266	582	Shell-Thick	INVSLU	5.0140	0.8196	-30.35	-0.65
1266	582	Shell-Thick	INVSLU	5.3737	0.9075	-30.58	-0.65
1267	583	Shell-Thick	INVSLE	10.5928	1.8567	-7.56	-0.33
1267	583	Shell-Thick	INVSLE	10.4092	1.7995	-7.75	-0.33
1267	583	Shell-Thick	INVSLE	12.9871	2.7409	-7.75	-0.25
1267	583	Shell-Thick	INVSLE	13.2078	2.7617	-7.56	-0.25
1267	583	Shell-Thick	INVSLE	3.9323	0.6806	-19.41	-0.46
1267	583	Shell-Thick	INVSLE	3.9165	0.6296	-19.50	-0.46
1267	583	Shell-Thick	INVSLE	4.9361	0.9940	-19.50	-0.27
1267	583	Shell-Thick	INVSLE	4.9551	1.0418	-19.41	-0.27
1267	583	Shell-Thick	INVSLU	18.3165	3.2205	-10.21	-0.18
1267	583	Shell-Thick	INVSLU	17.9384	3.1561	-10.46	-0.18
1267	583	Shell-Thick	INVSLU	22.3231	4.7665	-10.46	-0.22
1267	583	Shell-Thick	INVSLU	22.7778	4.7561	-10.21	-0.22
1267	583	Shell-Thick	INVSLU	5.3086	0.9188	-33.16	-0.62
1267	583	Shell-Thick	INVSLU	5.2873	0.8500	-33.13	-0.62
1267	583	Shell-Thick	INVSLU	6.6638	1.3420	-33.13	-0.37
1267	583	Shell-Thick	INVSLU	6.6894	1.4064	-33.16	-0.37
1268	584	Shell-Thick	INVSLE	14.9842	3.0631	-7.85	-0.30
1268	584	Shell-Thick	INVSLE	14.0228	3.0019	-8.14	-0.30
1268	584	Shell-Thick	INVSLE	16.7738	3.4606	-8.14	-1.119E-02
1268	584	Shell-Thick	INVSLE	17.8036	3.4549	-7.85	-1.119E-02
1268	584	Shell-Thick	INVSLE	5.3698	1.0986	-20.78	-0.30
1268	584	Shell-Thick	INVSLE	5.1970	1.0723	-20.97	-0.30
1268	584	Shell-Thick	INVSLE	6.2583	1.2621	-20.97	-0.11
1268	584	Shell-Thick	INVSLE	6.4417	1.2779	-20.78	-0.11
1268	584	Shell-Thick	INVSLU	26.1333	5.3412	-10.59	-0.30
1268	584	Shell-Thick	INVSLU	24.2575	5.2394	-10.99	-0.30
1268	584	Shell-Thick	INVSLU	28.9679	6.0100	-10.99	-1.511E-02
1268	584	Shell-Thick	INVSLU	30.9792	5.9794	-10.59	-1.511E-02
1268	584	Shell-Thick	INVSLU	7.2492	1.4832	-35.77	-0.41
1268	584	Shell-Thick	INVSLU	7.0160	1.4476	-35.84	-0.41
1268	584	Shell-Thick	INVSLU	8.4487	1.7039	-35.84	-0.23
1268	584	Shell-Thick	INVSLU	8.6963	1.7251	-35.77	-0.23
1269	585	Shell-Thick	INVSLE	7.1964	1.3911	-7.26	-0.40
1269	585	Shell-Thick	INVSLE	6.9130	1.3097	-7.42	-0.40
1269	585	Shell-Thick	INVSLE	9.2775	1.9517	-7.42	-0.41
1269	585	Shell-Thick	INVSLE	9.6151	1.9800	-7.26	-0.41
1269	585	Shell-Thick	INVSLE	2.7798	0.5453	-17.93	-0.76
1269	585	Shell-Thick	INVSLE	2.6773	0.4492	-17.92	-0.76
1269	585	Shell-Thick	INVSLE	3.6518	0.7061	-17.92	-0.60
1269	585	Shell-Thick	INVSLE	3.7636	0.7931	-17.93	-0.60
1269	585	Shell-Thick	INVSLU	12.3180	2.3719	-9.80	7.101E-03
1269	585	Shell-Thick	INVSLU	11.8248	2.3076	-10.01	7.101E-03
1269	585	Shell-Thick	INVSLU	15.8012	3.3960	-10.01	-0.19
1269	585	Shell-Thick	INVSLU	16.4008	3.3564	-9.80	-0.19
1269	585	Shell-Thick	INVSLU	3.7528	0.7361	-30.30	-1.02
1269	585	Shell-Thick	INVSLU	3.6144	0.6064	-30.10	-1.02
1269	585	Shell-Thick	INVSLU	4.9299	0.9533	-30.10	-0.81
1269	585	Shell-Thick	INVSLU	5.0808	1.0707	-30.30	-0.81
1270	586	Shell-Thick	INVSLE	10.3909	2.1354	-7.71	-0.41
1270	586	Shell-Thick	INVSLE	9.7769	2.0513	-7.96	-0.41
1270	586	Shell-Thick	INVSLE	12.3366	2.4824	-7.96	-0.31
1270	586	Shell-Thick	INVSLE	13.0235	2.4953	-7.71	-0.31
1270	586	Shell-Thick	INVSLE	3.9175	0.8122	-19.41	-0.61
1270	586	Shell-Thick	INVSLE	3.7622	0.7400	-19.50	-0.61
1270	586	Shell-Thick	INVSLE	4.8012	0.9259	-19.50	-0.36
1270	586	Shell-Thick	INVSLE	4.9698	0.9850	-19.41	-0.36
1270	586	Shell-Thick	INVSLU	17.8977	3.6699	-10.41	-0.17
1270	586	Shell-Thick	INVSLU	16.7517	3.5720	-10.75	-0.17
1270	586	Shell-Thick	INVSLU	21.0749	4.2873	-10.75	-0.26
1270	586	Shell-Thick	INVSLU	22.3627	4.2467	-10.41	-0.26
1270	586	Shell-Thick	INVSLU	5.2886	1.0964	-32.97	-0.83
1270	586	Shell-Thick	INVSLU	5.0790	0.9989	-32.88	-0.83
1270	586	Shell-Thick	INVSLU	6.4816	1.2500	-32.88	-0.49
1270	586	Shell-Thick	INVSLU	6.7092	1.3297	-32.97	-0.49

1271	587	Shell-Thick	INVSLE	13.9242	2.6827	-8.12	-0.30
1271	587	Shell-Thick	INVSLE	13.0549	2.6188	-8.49	-0.30
1271	587	Shell-Thick	INVSLE	15.8232	3.2637	-8.49	-8.187E-03
1271	587	Shell-Thick	INVSLE	16.7674	3.2544	-8.12	-8.187E-03
1271	587	Shell-Thick	INVSLE	5.1633	1.0101	-20.93	-0.38
1271	587	Shell-Thick	INVSLE	4.9973	0.9788	-21.12	-0.38
1271	587	Shell-Thick	INVSLE	6.0995	1.2275	-21.12	-0.10
1271	587	Shell-Thick	INVSLE	6.2766	1.2478	-20.93	-0.10
1271	587	Shell-Thick	INVSLU	24.0835	4.6224	-10.96	-0.22
1271	587	Shell-Thick	INVSLU	22.3987	4.5205	-11.46	-0.22
1271	587	Shell-Thick	INVSLU	27.0991	5.6249	-11.46	-1.105E-02
1271	587	Shell-Thick	INVSLU	28.9327	5.5814	-10.96	-1.105E-02
1271	587	Shell-Thick	INVSLU	6.9705	1.3636	-35.78	-0.51
1271	587	Shell-Thick	INVSLU	6.7463	1.3213	-35.78	-0.51
1271	587	Shell-Thick	INVSLU	8.2344	1.6571	-35.78	-0.22
1271	587	Shell-Thick	INVSLU	8.4735	1.6845	-35.78	-0.22
1272	588	Shell-Thick	INVSLE	6.8803	1.3835	-7.39	-0.36
1272	588	Shell-Thick	INVSLE	6.3907	1.2970	-7.58	-0.36
1272	588	Shell-Thick	INVSLE	8.7363	1.7983	-7.58	-0.40
1272	588	Shell-Thick	INVSLE	9.2975	1.8148	-7.39	-0.40
1272	588	Shell-Thick	INVSLE	2.6757	0.5456	-17.87	-0.86
1272	588	Shell-Thick	INVSLE	2.5033	0.4352	-17.82	-0.86
1272	588	Shell-Thick	INVSLE	3.4951	0.6541	-17.82	-0.68
1272	588	Shell-Thick	INVSLE	3.6816	0.7507	-17.87	-0.68
1272	588	Shell-Thick	INVSLU	11.7561	2.3551	-9.98	0.21
1272	588	Shell-Thick	INVSLU	10.8987	2.2963	-10.23	0.21
1272	588	Shell-Thick	INVSLU	14.8140	3.1251	-10.23	-8.312E-02
1272	588	Shell-Thick	INVSLU	15.8100	3.0488	-9.98	-8.312E-02
1272	588	Shell-Thick	INVSLU	3.6123	0.7366	-30.01	-1.16
1272	588	Shell-Thick	INVSLU	3.3794	0.5876	-29.71	-1.16
1272	588	Shell-Thick	INVSLU	4.7184	0.8830	-29.71	-0.92
1272	588	Shell-Thick	INVSLU	4.9701	1.0134	-30.01	-0.92
1273	589	Shell-Thick	INVSLE	9.7242	1.9307	-7.94	-0.37
1273	589	Shell-Thick	INVSLE	9.1360	1.8477	-8.22	-0.37
1273	589	Shell-Thick	INVSLE	11.6994	2.4606	-8.22	-0.32
1273	589	Shell-Thick	INVSLE	12.3628	2.4701	-7.94	-0.32
1273	589	Shell-Thick	INVSLE	3.7484	0.7589	-19.47	-0.68
1273	589	Shell-Thick	INVSLE	3.5951	0.6792	-19.51	-0.68
1273	589	Shell-Thick	INVSLE	4.6674	0.9325	-19.51	-0.41
1273	589	Shell-Thick	INVSLE	4.8336	0.9994	-19.47	-0.41
1273	589	Shell-Thick	INVSLU	16.6539	3.2895	-10.72	1.911E-04
1273	589	Shell-Thick	INVSLU	15.5613	3.2027	-11.10	1.911E-04
1273	589	Shell-Thick	INVSLU	19.8539	4.2326	-11.10	-0.22
1273	589	Shell-Thick	INVSLU	21.0938	4.1756	-10.72	-0.22
1273	589	Shell-Thick	INVSLU	5.0603	1.0245	-32.83	-0.92
1273	589	Shell-Thick	INVSLU	4.8534	0.9170	-32.61	-0.92
1273	589	Shell-Thick	INVSLU	6.3010	1.2589	-32.61	-0.55
1273	589	Shell-Thick	INVSLU	6.5253	1.3492	-32.83	-0.55
1274	590	Shell-Thick	INVSLE	12.9831	2.6103	-8.45	-0.30
1274	590	Shell-Thick	INVSLE	12.1487	2.5343	-8.86	-0.30
1274	590	Shell-Thick	INVSLE	14.9205	3.0879	-8.86	-9.362E-03
1274	590	Shell-Thick	INVSLE	15.8540	3.0670	-8.45	-9.362E-03
1274	590	Shell-Thick	INVSLE	4.9686	1.0120	-21.05	-0.42
1274	590	Shell-Thick	INVSLE	4.8029	0.9741	-21.24	-0.42
1274	590	Shell-Thick	INVSLE	5.9489	1.1983	-21.24	-0.11
1274	590	Shell-Thick	INVSLE	6.1329	1.2181	-21.05	-0.11
1274	590	Shell-Thick	INVSLU	22.2768	4.4638	-11.41	-0.16
1274	590	Shell-Thick	INVSLU	20.6671	4.3436	-11.97	-0.16
1274	590	Shell-Thick	INVSLU	25.3242	5.2792	-11.97	-1.264E-02
1274	590	Shell-Thick	INVSLU	27.1268	5.2110	-11.41	-1.264E-02
1274	590	Shell-Thick	INVSLU	6.7077	1.3662	-35.66	-0.57
1274	590	Shell-Thick	INVSLU	6.4839	1.3150	-35.59	-0.57
1274	590	Shell-Thick	INVSLU	8.0310	1.6177	-35.59	-0.23
1274	590	Shell-Thick	INVSLU	8.2794	1.6444	-35.66	-0.23
1275	591	Shell-Thick	INVSLE	6.3414	1.1798	-7.56	-0.21
1275	591	Shell-Thick	INVSLE	5.8757	1.1095	-7.74	-0.21
1275	591	Shell-Thick	INVSLE	8.2069	1.7090	-7.74	-0.32
1275	591	Shell-Thick	INVSLE	8.7444	1.7092	-7.56	-0.32
1275	591	Shell-Thick	INVSLE	2.4946	0.4631	-17.79	-0.87
1275	591	Shell-Thick	INVSLE	2.3246	0.3515	-17.68	-0.87
1275	591	Shell-Thick	INVSLE	3.3386	0.6186	-17.68	-0.69
1275	591	Shell-Thick	INVSLE	3.5219	0.7170	-17.79	-0.69
1275	591	Shell-Thick	INVSLU	10.8021	2.0109	-10.21	0.56
1275	591	Shell-Thick	INVSLU	9.9937	1.9885	-10.44	0.56
1275	591	Shell-Thick	INVSLU	13.8523	2.9735	-10.44	0.12
1275	591	Shell-Thick	INVSLU	14.8004	2.8597	-10.21	0.12
1275	591	Shell-Thick	INVSLU	3.3677	0.6252	-29.66	-1.17
1275	591	Shell-Thick	INVSLU	3.1382	0.4745	-29.22	-1.17

1275	591	Shell-Thick	INVSLU	4.5071	0.8350	-29.22	-0.94
1275	591	Shell-Thick	INVSLU	4.7546	0.9680	-29.66	-0.94
1276	592	Shell-Thick	INVSLE	9.0708	1.8026	-8.19	-0.28
1276	592	Shell-Thick	INVSLE	8.4025	1.7201	-8.48	-0.28
1276	592	Shell-Thick	INVSLE	10.9527	2.2474	-8.48	-0.29
1276	592	Shell-Thick	INVSLE	11.7117	2.2413	-8.19	-0.29
1276	592	Shell-Thick	INVSLE	3.5752	0.7197	-19.45	-0.70
1276	592	Shell-Thick	INVSLE	3.3852	0.6358	-19.45	-0.70
1276	592	Shell-Thick	INVSLE	4.4888	0.8717	-19.45	-0.42
1276	592	Shell-Thick	INVSLE	4.6965	0.9381	-19.45	-0.42
1276	592	Shell-Thick	INVSLU	15.4437	3.0583	-11.06	0.20
1276	592	Shell-Thick	INVSLU	14.2207	2.9773	-11.45	0.20
1276	592	Shell-Thick	INVSLU	18.4484	3.8427	-11.45	-0.13
1276	592	Shell-Thick	INVSLU	19.8467	3.7526	-11.06	-0.13
1276	592	Shell-Thick	INVSLU	4.8265	0.9716	-32.51	-0.95
1276	592	Shell-Thick	INVSLU	4.5700	0.8584	-32.17	-0.95
1276	592	Shell-Thick	INVSLU	6.0599	1.1767	-32.17	-0.56
1276	592	Shell-Thick	INVSLU	6.3403	1.2665	-32.51	-0.56
1277	593	Shell-Thick	INVSLE	12.0533	2.3453	-8.83	-0.24
1277	593	Shell-Thick	INVSLE	11.2581	2.2728	-9.25	-0.24
1277	593	Shell-Thick	INVSLE	14.0424	2.9106	-9.25	-8.889E-03
1277	593	Shell-Thick	INVSLE	14.9376	2.8854	-8.83	-8.889E-03
1277	593	Shell-Thick	INVSLE	4.7640	0.9419	-21.17	-0.43
1277	593	Shell-Thick	INVSLE	4.6003	0.9037	-21.31	-0.43
1277	593	Shell-Thick	INVSLE	5.7974	1.1675	-21.31	-0.11
1277	593	Shell-Thick	INVSLE	5.9793	1.1878	-21.17	-0.11
1277	593	Shell-Thick	INVSLU	20.5062	3.9727	-11.92	-2.968E-02
1277	593	Shell-Thick	INVSLU	18.9787	3.8605	-12.49	-2.968E-02
1277	593	Shell-Thick	INVSLU	23.6035	4.9319	-12.49	-1.200E-02
1277	593	Shell-Thick	INVSLU	25.3258	4.8539	-11.92	-1.200E-02
1277	593	Shell-Thick	INVSLU	6.4314	1.2716	-35.48	-0.58
1277	593	Shell-Thick	INVSLU	6.2104	1.2199	-35.29	-0.58
1277	593	Shell-Thick	INVSLU	7.8266	1.5762	-35.29	-0.22
1277	593	Shell-Thick	INVSLU	8.0720	1.6035	-35.48	-0.22
1278	594	Shell-Thick	INVSLE	5.8176	1.0003	-7.72	2.678E-02
1278	594	Shell-Thick	INVSLE	5.2691	0.9514	-7.87	2.678E-02
1278	594	Shell-Thick	INVSLE	7.5696	1.5170	-7.87	-0.17
1278	594	Shell-Thick	INVSLE	8.1988	1.4873	-7.72	-0.17
1278	594	Shell-Thick	INVSLE	2.3120	0.3785	-17.64	-0.80
1278	594	Shell-Thick	INVSLE	2.1056	0.2727	-17.44	-0.80
1278	594	Shell-Thick	INVSLE	3.1374	0.5448	-17.44	-0.65
1278	594	Shell-Thick	INVSLE	3.3599	0.6349	-17.64	-0.65
1278	594	Shell-Thick	INVSLU	9.8828	1.7213	-10.42	0.99
1278	594	Shell-Thick	INVSLU	8.9376	1.7383	-10.62	0.99
1278	594	Shell-Thick	INVSLU	12.7093	2.6444	-10.62	0.39
1278	594	Shell-Thick	INVSLU	13.8102	2.4757	-10.42	0.39
1278	594	Shell-Thick	INVSLU	3.1212	0.5110	-29.15	-1.08
1278	594	Shell-Thick	INVSLU	2.8425	0.3682	-28.55	-1.08
1278	594	Shell-Thick	INVSLU	4.2355	0.7355	-28.55	-0.88
1278	594	Shell-Thick	INVSLU	4.5358	0.8572	-29.15	-0.88
1279	595	Shell-Thick	INVSLE	8.3332	1.5574	-8.46	-0.12
1279	595	Shell-Thick	INVSLE	7.6549	1.4908	-8.71	-0.12
1279	595	Shell-Thick	INVSLE	10.1928	2.1290	-8.71	-0.22
1279	595	Shell-Thick	INVSLE	10.9615	2.1074	-8.46	-0.22
1279	595	Shell-Thick	INVSLE	3.3627	0.6319	-19.41	-0.66
1279	595	Shell-Thick	INVSLE	3.1567	0.5522	-19.31	-0.66
1279	595	Shell-Thick	INVSLE	4.2936	0.8417	-19.31	-0.40
1279	595	Shell-Thick	INVSLE	4.5170	0.9042	-19.41	-0.40
1279	595	Shell-Thick	INVSLU	14.0972	2.6307	-11.42	0.50
1279	595	Shell-Thick	INVSLU	12.8711	2.5792	-11.76	0.50
1279	595	Shell-Thick	INVSLU	17.0337	3.6217	-11.76	-1.635E-03
1279	595	Shell-Thick	INVSLU	18.4347	3.5027	-11.42	-1.635E-03
1279	595	Shell-Thick	INVSLU	4.5396	0.8531	-32.10	-0.89
1279	595	Shell-Thick	INVSLU	4.2615	0.7455	-31.59	-0.89
1279	595	Shell-Thick	INVSLU	5.7964	1.1363	-31.59	-0.54
1279	595	Shell-Thick	INVSLU	6.0980	1.2206	-32.10	-0.54
1280	596	Shell-Thick	INVSLE	11.1757	2.1943	-9.21	-0.16
1280	596	Shell-Thick	INVSLE	10.3726	2.1209	-9.61	-0.16
1280	596	Shell-Thick	INVSLE	13.1533	2.7399	-9.61	-1.289E-02
1280	596	Shell-Thick	INVSLE	14.0679	2.7043	-9.21	-1.289E-02
1280	596	Shell-Thick	INVSLE	4.5644	0.9062	-21.23	-0.41
1280	596	Shell-Thick	INVSLE	4.3827	0.8670	-21.28	-0.41
1280	596	Shell-Thick	INVSLE	5.6272	1.1372	-21.28	-0.12
1280	596	Shell-Thick	INVSLE	5.8312	1.1545	-21.23	-0.12
1280	596	Shell-Thick	INVSLU	18.8423	3.6879	-12.43	0.12
1280	596	Shell-Thick	INVSLU	17.3187	3.5750	-12.97	0.12
1280	596	Shell-Thick	INVSLU	21.8807	4.5984	-12.97	-1.740E-02
1280	596	Shell-Thick	INVSLU	23.6193	4.5016	-12.43	-1.740E-02

1280	596	Shell-Thick	INVSLU	6.1620	1.2234	-35.17	-0.55	
1280	596	Shell-Thick	INVSLU	5.9166	1.1704	-34.81	-0.55	
1280	596	Shell-Thick	INVSLU	7.5967	1.5352	-34.81	-0.24	
1280	596	Shell-Thick	INVSLU	7.8721	1.5585	-35.17	-0.24	
1281	597	Shell-Thick	INVSLE	5.2096	0.7606	-7.85	0.36	
1281	597	Shell-Thick	INVSLE	4.6531	0.7498	-7.95	0.36	
1281	597	Shell-Thick	INVSLE	6.9165	1.3859	-7.95	4.551E-02	
1281	597	Shell-Thick	INVSLE	7.5516	1.3201	-7.85	4.551E-02	
1281	597	Shell-Thick	INVSLE	2.0918	0.2659	-17.42	-0.66	
1281	597	Shell-Thick	INVSLE	1.8730	0.1765	-17.10	-0.66	
1281	597	Shell-Thick	INVSLE	2.9198	0.4910	-17.10	-0.56	
1281	597	Shell-Thick	INVSLE	3.1539	0.5653	-17.42	-0.56	
1281	597	Shell-Thick	INVSLU	8.8250	1.3344	-10.60	1.55	
1281	597	Shell-Thick	INVSLU	7.8770	1.4146	-10.73	1.55	
1281	597	Shell-Thick	INVSLU	11.5512	2.4237	-10.73	0.75	
1281	597	Shell-Thick	INVSLU	12.6513	2.1955	-10.60	0.75	
1281	597	Shell-Thick	INVSLU	2.8239	0.3589	-28.50	-0.89	
1281	597	Shell-Thick	INVSLU	2.5285	0.2383	-27.70	-0.89	
1281	597	Shell-Thick	INVSLU	3.9417	0.6628	-27.70	-0.76	
1281	597	Shell-Thick	INVSLU	4.2578	0.7632	-28.50	-0.76	
1282	598	Shell-Thick	INVSLE	7.5866	1.3753	-8.69	0.10	
1282	598	Shell-Thick	INVSLE	6.8615	1.3268	-8.89	0.10	
1282	598	Shell-Thick	INVSLE	9.3680	1.9395	-8.89	-0.11	
1282	598	Shell-Thick	INVSLE	10.1907	1.8926	-8.69	-0.11	
1282	598	Shell-Thick	INVSLE	3.1338	0.5597	-19.26	-0.56	
1282	598	Shell-Thick	INVSLE	2.8961	0.4879	-19.04	-0.56	
1282	598	Shell-Thick	INVSLE	4.0590	0.7852	-19.04	-0.36	
1282	598	Shell-Thick	INVSLE	4.3170	0.8370	-19.26	-0.36	
1282	598	Shell-Thick	INVSLU	12.7502	2.3211	-11.73	0.87	
1282	598	Shell-Thick	INVSLU	11.4599	2.2996	-12.01	0.87	
1282	598	Shell-Thick	INVSLU	15.5244	3.2780	-12.01	0.17	
1282	598	Shell-Thick	INVSLU	17.0021	3.1168	-11.73	0.17	
1282	598	Shell-Thick	INVSLU	4.2306	0.7555	-31.51	-0.76	
1282	598	Shell-Thick	INVSLU	3.9097	0.6587	-30.81	-0.76	
1282	598	Shell-Thick	INVSLU	5.4797	1.0600	-30.81	-0.48	
1282	598	Shell-Thick	INVSLU	5.8280	1.1299	-31.51	-0.48	
1283	599	Shell-Thick	INVSLE	10.2845	1.9661	-9.57	-4.957E-02	
1283	599	Shell-Thick	INVSLE	9.4450	1.9001	-9.92	-4.957E-02	
1283	599	Shell-Thick	INVSLE	12.2151	2.5594	-9.92	-1.816E-02	
1283	599	Shell-Thick	INVSLE	13.1659	2.5168	-9.57	-1.816E-02	
1283	599	Shell-Thick	INVSLE	4.3440	0.8391	-21.21	-0.36	
1283	599	Shell-Thick	INVSLE	4.1283	0.8023	-21.14	-0.36	
1283	599	Shell-Thick	INVSLE	5.4171	1.1003	-21.14	-0.12	
1283	599	Shell-Thick	INVSLE	5.6558	1.1143	-21.21	-0.12	
1283	599	Shell-Thick	INVSLU	17.1732	3.2731	-12.92	0.31	
1283	599	Shell-Thick	INVSLU	15.6104	3.1732	-13.39	0.31	
1283	599	Shell-Thick	INVSLU	20.0983	4.2515	-13.39	-2.452E-02	
1283	599	Shell-Thick	INVSLU	21.8748	4.1431	-12.92	-2.452E-02	
1283	599	Shell-Thick	INVSLU	5.8643	1.1327	-34.71	-0.49	
1283	599	Shell-Thick	INVSLU	5.5731	1.0832	-34.15	-0.49	
1283	599	Shell-Thick	INVSLU	7.3131	1.4854	-34.15	-0.25	
1283	599	Shell-Thick	INVSLU	7.6353	1.5043	-34.71	-0.25	
1284	600	Shell-Thick	INVSLE	4.5951	0.5708	-7.94	0.79	
1284	600	Shell-Thick	INVSLE	3.9990	0.6064	-7.96	0.79	
1284	600	Shell-Thick	INVSLE	6.2046	1.2194	-7.96	0.33	
1284	600	Shell-Thick	INVSLE	6.8824	1.1043	-7.94	0.33	
1284	600	Shell-Thick	INVSLE	1.8592	0.1661	-17.07	-0.43	
1284	600	Shell-Thick	INVSLE	1.6166	0.1011	-16.60	-0.43	
1284	600	Shell-Thick	INVSLE	2.6686	0.4245	-16.60	-0.41	
1284	600	Shell-Thick	INVSLE	2.9279	0.4733	-17.07	-0.41	
1284	600	Shell-Thick	INVSLU	7.7677	1.0401	-10.71	2.21	
1284	600	Shell-Thick	INVSLU	6.7618	1.1923	-10.74	2.21	
1284	600	Shell-Thick	INVSLU	10.3051	2.1411	-10.74	1.19	
1284	600	Shell-Thick	INVSLU	11.4681	1.8360	-10.71	1.19	
1284	600	Shell-Thick	INVSLU	2.5100	0.2242	-27.66	-0.58	
1284	600	Shell-Thick	INVSLU	2.1824	0.1365	-26.63	-0.58	
1284	600	Shell-Thick	INVSLU	3.6026	0.5731	-26.63	-0.56	
1284	600	Shell-Thick	INVSLU	3.9527	0.6390	-27.66	-0.56	
1285	601	Shell-Thick	INVSLE	6.7951	1.1455	-8.87	0.39	
1285	601	Shell-Thick	INVSLE	6.0360	1.1271	-9.00	0.39	
1285	601	Shell-Thick	INVSLE	8.4993	1.7929	-9.00	2.386E-02	
1285	601	Shell-Thick	INVSLE	9.3539	1.7182	-8.87	2.386E-02	
1285	601	Shell-Thick	INVSLE	2.8734	0.4655	-19.00	-0.41	
1285	601	Shell-Thick	INVSLE	2.6050	0.4087	-18.63	-0.41	
1285	601	Shell-Thick	INVSLE	3.7873	0.7411	-18.63	-0.29	
1285	601	Shell-Thick	INVSLE	4.0759	0.7780	-19.00	-0.29	
1285	601	Shell-Thick	INVSLU	11.3428	1.9339	-11.98	1.33	
1285	601	Shell-Thick	INVSLU	10.0146	1.9601	-12.15	1.33	

1285	601	Shell-Thick	INVSLU	13.9636	3.0125	-12.15	0.38
1285	601	Shell-Thick	INVSLU	15.4745	2.8085	-11.98	0.38
1285	601	Shell-Thick	INVSLU	3.8790	0.6285	-30.75	-0.55
1285	601	Shell-Thick	INVSLU	3.5168	0.5518	-29.80	-0.55
1285	601	Shell-Thick	INVSLU	5.1128	1.0005	-29.80	-0.39
1285	601	Shell-Thick	INVSLU	5.5024	1.0504	-30.75	-0.39
1286	602	Shell-Thick	INVSLE	9.3663	1.7833	-9.88	9.523E-02
1286	602	Shell-Thick	INVSLE	8.4636	1.7232	-10.14	9.523E-02
1286	602	Shell-Thick	INVSLE	11.2015	2.3695	-10.14	-2.693E-02
1286	602	Shell-Thick	INVSLE	12.2216	2.3151	-9.88	-2.693E-02
1286	602	Shell-Thick	INVSLE	4.0923	0.7821	-21.07	-0.29
1286	602	Shell-Thick	INVSLE	3.8266	0.7482	-20.84	-0.29
1286	602	Shell-Thick	INVSLE	5.1495	1.0551	-20.84	-0.14
1286	602	Shell-Thick	INVSLE	5.4416	1.0631	-21.07	-0.14
1286	602	Shell-Thick	INVSLU	15.4821	2.9442	-13.34	0.54
1286	602	Shell-Thick	INVSLU	13.8408	2.8538	-13.69	0.54
1286	602	Shell-Thick	INVSLU	18.2196	3.8938	-13.69	-3.636E-02
1286	602	Shell-Thick	INVSLU	20.0838	3.7669	-13.34	-3.636E-02
1286	602	Shell-Thick	INVSLU	5.5246	1.0559	-34.05	-0.39
1286	602	Shell-Thick	INVSLU	5.1659	1.0100	-33.24	-0.39
1286	602	Shell-Thick	INVSLU	6.9518	1.4244	-33.24	-0.27
1286	602	Shell-Thick	INVSLU	7.3462	1.4352	-34.05	-0.27
1287	603	Shell-Thick	INVSLE	3.9445	0.3690	-7.95	1.33
1287	603	Shell-Thick	INVSLE	3.3409	0.4673	-7.86	1.33
1287	603	Shell-Thick	INVSLE	5.4726	1.0988	-7.86	0.69
1287	603	Shell-Thick	INVSLE	6.1530	0.9257	-7.95	0.69
1287	603	Shell-Thick	INVSLE	1.6037	0.0599	-16.59	-0.12
1287	603	Shell-Thick	INVSLE	1.3481	0.0302	-15.94	-0.12
1287	603	Shell-Thick	INVSLE	2.3953	0.3750	-15.94	-0.21
1287	603	Shell-Thick	INVSLE	2.6663	0.3898	-16.59	-0.21
1287	603	Shell-Thick	INVSLU	6.6589	0.7273	-10.73	3.02
1287	603	Shell-Thick	INVSLU	5.6518	0.9743	-10.61	3.02
1287	603	Shell-Thick	INVSLU	9.0410	1.9381	-10.61	1.72
1287	603	Shell-Thick	INVSLU	10.1962	1.5473	-10.73	1.72
1287	603	Shell-Thick	INVSLU	2.1650	0.0809	-26.61	-0.16
1287	603	Shell-Thick	INVSLU	1.8199	0.0407	-25.30	-0.16
1287	603	Shell-Thick	INVSLU	3.2337	0.5062	-25.30	-0.28
1287	603	Shell-Thick	INVSLU	3.5995	0.5262	-26.61	-0.28
1288	604	Shell-Thick	INVSLE	5.9745	0.9557	-8.98	0.76
1288	604	Shell-Thick	INVSLE	5.1695	0.9726	-8.99	0.76
1288	604	Shell-Thick	INVSLE	7.5647	1.6084	-8.99	0.20
1288	604	Shell-Thick	INVSLE	8.4673	1.4966	-8.98	0.20
1288	604	Shell-Thick	INVSLE	2.5839	0.3809	-18.60	-0.20
1288	604	Shell-Thick	INVSLE	2.2781	0.3440	-18.03	-0.20
1288	604	Shell-Thick	INVSLE	3.4661	0.6807	-18.03	-0.19
1288	604	Shell-Thick	INVSLE	3.7939	0.6962	-18.60	-0.19
1288	604	Shell-Thick	INVSLU	9.9065	1.6222	-12.12	1.87
1288	604	Shell-Thick	INVSLU	8.5224	1.7015	-12.14	1.87
1288	604	Shell-Thick	INVSLU	12.3175	2.6843	-12.14	0.65
1288	604	Shell-Thick	INVSLU	13.8867	2.4249	-12.12	0.65
1288	604	Shell-Thick	INVSLU	3.4882	0.5142	-29.75	-0.27
1288	604	Shell-Thick	INVSLU	3.0754	0.4643	-28.52	-0.27
1288	604	Shell-Thick	INVSLU	4.6793	0.9189	-28.52	-0.26
1288	604	Shell-Thick	INVSLU	5.1217	0.9398	-29.75	-0.26
1289	605	Shell-Thick	INVSLE	8.3866	1.5521	-10.11	0.28
1289	605	Shell-Thick	INVSLE	7.4028	1.5044	-10.26	0.28
1289	605	Shell-Thick	INVSLE	10.0902	2.1604	-10.26	-3.716E-02
1289	605	Shell-Thick	INVSLE	11.1896	2.0955	-10.11	-3.716E-02
1289	605	Shell-Thick	INVSLE	3.7911	0.7018	-20.79	-0.18
1289	605	Shell-Thick	INVSLE	3.4624	0.6737	-20.35	-0.18
1289	605	Shell-Thick	INVSLE	4.8080	0.9966	-20.35	-0.15
1289	605	Shell-Thick	INVSLE	5.1642	0.9978	-20.79	-0.15
1289	605	Shell-Thick	INVSLU	13.7155	2.5382	-13.65	0.81
1289	605	Shell-Thick	INVSLU	11.9722	2.4677	-13.85	0.81
1289	605	Shell-Thick	INVSLU	16.2156	3.5100	-13.85	-5.016E-02
1289	605	Shell-Thick	INVSLU	18.1767	3.3684	-13.65	-5.016E-02
1289	605	Shell-Thick	INVSLU	5.1180	0.9475	-33.17	-0.24
1289	605	Shell-Thick	INVSLU	4.6742	0.9095	-32.06	-0.24
1289	605	Shell-Thick	INVSLU	6.4907	1.3454	-32.06	-0.28
1289	605	Shell-Thick	INVSLU	6.9717	1.3470	-33.17	-0.28
1290	606	Shell-Thick	INVSLE	3.2925	0.2225	-7.86	1.99
1290	606	Shell-Thick	INVSLE	2.6775	0.3961	-7.64	1.99
1290	606	Shell-Thick	INVSLE	4.7081	0.9736	-7.64	1.13
1290	606	Shell-Thick	INVSLE	5.3978	0.7276	-7.86	1.13
1290	606	Shell-Thick	INVSLE	1.3373	-0.0261	-15.93	0.28
1290	606	Shell-Thick	INVSLE	1.0688	-0.0105	-15.06	0.28
1290	606	Shell-Thick	INVSLE	2.0954	0.3256	-15.06	5.951E-02
1290	606	Shell-Thick	INVSLE	2.3790	0.2955	-15.93	5.951E-02

1290	606 Shell-Thick	INVSLU	5.5598	0.5107	-10.61	3.98	
1290	606 Shell-Thick	INVSLU	4.5430	0.8676	-10.31	3.98	
1290	606 Shell-Thick	INVSLU	7.7378	1.7249	-10.31	2.37	
1290	606 Shell-Thick	INVSLU	8.8984	1.2287	-10.61	2.37	
1290	606 Shell-Thick	INVSLU	1.8054	-0.0352	-25.29	0.38	
1290	606 Shell-Thick	INVSLU	1.4429	-0.0142	-23.67	0.38	
1290	606 Shell-Thick	INVSLU	2.8288	0.4396	-23.67	8.033E-02	
1290	606 Shell-Thick	INVSLU	3.2116	0.3989	-25.29	8.033E-02	
1291	607 Shell-Thick	INVSLE	5.1144	0.7464	-8.98	1.21	
1291	607 Shell-Thick	INVSLE	4.2731	0.8111	-8.85	1.21	
1291	607 Shell-Thick	INVSLE	6.5777	1.4461	-8.85	0.42	
1291	607 Shell-Thick	INVSLE	7.5112	1.2919	-8.98	0.42	
1291	607 Shell-Thick	INVSLE	2.2594	0.2854	-18.02	7.495E-02	
1291	607 Shell-Thick	INVSLE	1.9177	0.2762	-17.21	7.495E-02	
1291	607 Shell-Thick	INVSLE	3.0968	0.6248	-17.21	-5.807E-02	
1291	607 Shell-Thick	INVSLE	3.4597	0.6133	-18.02	-5.807E-02	
1291	607 Shell-Thick	INVSLU	8.4253	1.2810	-12.13	2.53	
1291	607 Shell-Thick	INVSLU	7.0045	1.4313	-11.95	2.53	
1291	607 Shell-Thick	INVSLU	10.6142	2.3985	-11.95	0.97	
1291	607 Shell-Thick	INVSLU	12.2094	2.0789	-12.13	0.97	
1291	607 Shell-Thick	INVSLU	3.0501	0.3853	-28.49	0.10	
1291	607 Shell-Thick	INVSLU	2.5888	0.3729	-26.92	0.10	
1291	607 Shell-Thick	INVSLU	4.1807	0.8434	-26.92	-7.840E-02	
1291	607 Shell-Thick	INVSLU	4.6706	0.8280	-28.49	-7.840E-02	
1292	608 Shell-Thick	INVSLE	7.3371	1.3374	-10.24	0.51	
1292	608 Shell-Thick	INVSLE	6.2652	1.3033	-10.23	0.51	
1292	608 Shell-Thick	INVSLE	8.8724	1.9331	-10.23	-4.979E-02	
1292	608 Shell-Thick	INVSLE	10.0611	1.8536	-10.24	-4.979E-02	
1292	608 Shell-Thick	INVSLE	3.4314	0.6201	-20.31	-4.366E-02	
1292	608 Shell-Thick	INVSLE	3.0311	0.5992	-19.64	-4.366E-02	
1292	608 Shell-Thick	INVSLE	4.3818	0.9235	-19.64	-0.17	
1292	608 Shell-Thick	INVSLE	4.8119	0.9152	-20.31	-0.17	
1292	608 Shell-Thick	INVSLU	11.8663	2.1693	-13.82	1.14	
1292	608 Shell-Thick	INVSLU	10.0156	2.1198	-13.81	1.14	
1292	608 Shell-Thick	INVSLU	14.0799	3.1039	-13.81	-6.721E-02	
1292	608 Shell-Thick	INVSLU	16.1482	2.9418	-13.82	-6.721E-02	
1292	608 Shell-Thick	INVSLU	4.6324	0.8371	-32.00	-5.894E-02	
1292	608 Shell-Thick	INVSLU	4.0920	0.8090	-30.54	-5.894E-02	
1292	608 Shell-Thick	INVSLU	5.9154	1.2467	-30.54	-0.31	
1292	608 Shell-Thick	INVSLU	6.4961	1.2356	-32.00	-0.31	
1293	609 Shell-Thick	INVSLE	2.6375	0.0995	-7.65	2.80	
1293	609 Shell-Thick	INVSLE	2.0367	0.3682	-7.26	2.80	
1293	609 Shell-Thick	INVSLE	3.9402	0.8954	-7.26	1.67	
1293	609 Shell-Thick	INVSLE	4.6067	0.5633	-7.65	1.67	
1293	609 Shell-Thick	INVSLE	1.0614	-0.1000	-15.08	0.79	
1293	609 Shell-Thick	INVSLE	0.7913	-0.0256	-13.94	0.79	
1293	609 Shell-Thick	INVSLE	1.7798	0.2971	-13.94	0.40	
1293	609 Shell-Thick	INVSLE	2.0621	0.2110	-15.08	0.40	
1293	609 Shell-Thick	INVSLU	4.4653	0.3309	-10.32	5.12	
1293	609 Shell-Thick	INVSLU	3.4809	0.8247	-9.80	5.12	
1293	609 Shell-Thick	INVSLU	6.4455	1.5891	-9.80	3.14	
1293	609 Shell-Thick	INVSLU	7.5576	0.9719	-10.32	3.14	
1293	609 Shell-Thick	INVSLU	1.4328	-0.1350	-23.69	1.07	
1293	609 Shell-Thick	INVSLU	1.0682	-0.0345	-21.70	1.07	
1293	609 Shell-Thick	INVSLU	2.4027	0.4011	-21.70	0.54	
1293	609 Shell-Thick	INVSLU	2.7838	0.2849	-23.69	0.54	
1294	610 Shell-Thick	INVSLE	4.2284	0.5725	-8.85	1.76	
1294	610 Shell-Thick	INVSLE	3.3601	0.6945	-8.53	1.76	
1294	610 Shell-Thick	INVSLE	5.5404	1.2652	-8.53	0.69	
1294	610 Shell-Thick	INVSLE	6.4970	1.0577	-8.85	0.69	
1294	610 Shell-Thick	INVSLE	1.9034	0.2001	-17.21	0.43	
1294	610 Shell-Thick	INVSLE	1.5292	0.2262	-16.13	0.43	
1294	610 Shell-Thick	INVSLE	2.6784	0.5588	-16.13	0.11	
1294	610 Shell-Thick	INVSLE	3.0734	0.5126	-17.21	0.11	
1294	610 Shell-Thick	INVSLU	6.9245	1.0043	-11.94	3.32	
1294	610 Shell-Thick	INVSLU	5.4833	1.2376	-11.52	3.32	
1294	610 Shell-Thick	INVSLU	8.8593	2.0845	-11.52	1.35	
1294	610 Shell-Thick	INVSLU	10.4670	1.6898	-11.94	1.35	
1294	610 Shell-Thick	INVSLU	2.5696	0.2702	-26.91	0.58	
1294	610 Shell-Thick	INVSLU	2.0644	0.3054	-24.93	0.58	
1294	610 Shell-Thick	INVSLU	3.6158	0.7543	-24.93	0.15	
1294	610 Shell-Thick	INVSLU	4.1491	0.6920	-26.91	0.15	
1295	611 Shell-Thick	INVSLE	6.2093	1.0905	-10.22	0.79	
1295	611 Shell-Thick	INVSLE	5.0520	1.0772	-10.02	0.79	
1295	611 Shell-Thick	INVSLE	7.5489	1.6838	-10.02	-6.324E-02	
1295	611 Shell-Thick	INVSLE	8.8171	1.5894	-10.22	-6.324E-02	
1295	611 Shell-Thick	INVSLE	3.0049	0.5188	-19.61	0.13	
1295	611 Shell-Thick	INVSLE	2.5294	0.5091	-18.64	0.13	

1295	611 Shell-Thick	INVSLE	3.8648	0.8331	-18.64	-0.18	
1295	611 Shell-Thick	INVSLE	4.3700	0.8139	-19.61	-0.18	
1295	611 Shell-Thick	INVSLU	9.9253	1.7535	-13.79	1.54	
1295	611 Shell-Thick	INVSLU	7.9774	1.7361	-13.53	1.54	
1295	611 Shell-Thick	INVSLU	11.8211	2.6703	-13.53	-8.538E-02	
1295	611 Shell-Thick	INVSLU	13.9739	2.4888	-13.79	-8.538E-02	
1295	611 Shell-Thick	INVSLU	4.0566	0.7003	-30.51	0.18	
1295	611 Shell-Thick	INVSLU	3.4146	0.6872	-28.63	0.18	
1295	611 Shell-Thick	INVSLU	5.2175	1.1247	-28.63	-0.32	
1295	611 Shell-Thick	INVSLU	5.8995	1.0987	-30.51	-0.32	
1296	612 Shell-Thick	INVSLE	2.0090	0.0521	-7.28	3.77	
1296	612 Shell-Thick	INVSLE	1.4379	0.4353	-6.69	3.77	
1296	612 Shell-Thick	INVSLE	3.1784	0.8439	-6.69	2.34	
1296	612 Shell-Thick	INVSLE	3.8067	0.4058	-7.28	2.34	
1296	612 Shell-Thick	INVSLE	0.7893	-0.1380	-13.98	1.43	
1296	612 Shell-Thick	INVSLE	0.5281	0.0101	-12.54	1.43	
1296	612 Shell-Thick	INVSLE	1.4552	0.2850	-12.54	0.84	
1296	612 Shell-Thick	INVSLE	1.7256	0.1284	-13.98	0.84	
1296	612 Shell-Thick	INVSLU	3.4235	0.2725	-9.83	6.48	
1296	612 Shell-Thick	INVSLU	2.4929	0.9284	-9.03	6.48	
1296	612 Shell-Thick	INVSLU	5.1766	1.4921	-9.03	4.08	
1296	612 Shell-Thick	INVSLU	6.2201	0.7274	-9.83	4.08	
1296	612 Shell-Thick	INVSLU	1.0655	-0.1863	-21.74	1.93	
1296	612 Shell-Thick	INVSLU	0.7129	0.0136	-19.32	1.93	
1296	612 Shell-Thick	INVSLU	1.9646	0.3848	-19.32	1.13	
1296	612 Shell-Thick	INVSLU	2.3295	0.1734	-21.74	1.13	
1297	613 Shell-Thick	INVSLE	3.3294	0.4073	-8.54	2.44	
1297	613 Shell-Thick	INVSLE	2.4592	0.6031	-8.00	2.44	
1297	613 Shell-Thick	INVSLE	4.4799	1.1056	-8.00	1.02	
1297	613 Shell-Thick	INVSLE	5.4277	0.8349	-8.54	1.02	
1297	613 Shell-Thick	INVSLE	1.5216	0.1173	-16.15	0.87	
1297	613 Shell-Thick	INVSLE	1.1260	0.1895	-14.72	0.87	
1297	613 Shell-Thick	INVSLE	2.2210	0.4983	-14.72	0.33	
1297	613 Shell-Thick	INVSLE	2.6343	0.4091	-16.15	0.33	
1297	613 Shell-Thick	INVSLU	5.4258	0.7436	-11.54	4.27	
1297	613 Shell-Thick	INVSLU	4.0052	1.0828	-10.80	4.27	
1297	613 Shell-Thick	INVSLU	7.0995	1.8098	-10.80	1.83	
1297	613 Shell-Thick	INVSLU	8.6669	1.3287	-11.54	1.83	
1297	613 Shell-Thick	INVSLU	2.0541	0.1584	-24.97	1.17	
1297	613 Shell-Thick	INVSLU	1.5201	0.2558	-22.51	1.17	
1297	613 Shell-Thick	INVSLU	2.9983	0.6727	-22.51	0.44	
1297	613 Shell-Thick	INVSLU	3.5563	0.5523	-24.97	0.44	
1298	614 Shell-Thick	INVSLE	5.0152	0.8543	-10.02	1.14	
1298	614 Shell-Thick	INVSLE	3.7929	0.8664	-9.58	1.14	
1298	614 Shell-Thick	INVSLE	6.1379	1.4172	-9.58	-7.770E-02	
1298	614 Shell-Thick	INVSLE	7.4651	1.3034	-10.02	-7.770E-02	
1298	614 Shell-Thick	INVSLE	2.5124	0.4137	-18.64	0.36	
1298	614 Shell-Thick	INVSLE	1.9668	0.4185	-17.29	0.36	
1298	614 Shell-Thick	INVSLE	3.2598	0.7260	-17.29	-0.20	
1298	614 Shell-Thick	INVSLE	3.8346	0.6929	-18.64	-0.20	
1298	614 Shell-Thick	INVSLU	7.9175	1.3652	-13.53	2.03	
1298	614 Shell-Thick	INVSLU	5.9105	1.3857	-12.93	2.03	
1298	614 Shell-Thick	INVSLU	9.4755	2.2186	-12.93	-0.10	
1298	614 Shell-Thick	INVSLU	11.6750	2.0115	-13.53	-0.10	
1298	614 Shell-Thick	INVSLU	3.3917	0.5584	-28.63	0.49	
1298	614 Shell-Thick	INVSLU	2.6552	0.5650	-26.24	0.49	
1298	614 Shell-Thick	INVSLU	4.4007	0.9801	-26.24	-0.34	
1298	614 Shell-Thick	INVSLU	5.1768	0.9353	-28.63	-0.34	
1299	615 Shell-Thick	INVSLE	1.4264	0.0749	-6.72	4.96	
1299	615 Shell-Thick	INVSLE	0.9164	0.6012	-5.88	4.96	
1299	615 Shell-Thick	INVSLE	2.4558	0.8627	-5.88	3.17	
1299	615 Shell-Thick	INVSLE	3.0082	0.2962	-6.72	3.17	
1299	615 Shell-Thick	INVSLE	0.5339	-0.1352	-12.60	2.22	
1299	615 Shell-Thick	INVSLE	0.2990	0.1063	-10.79	2.22	
1299	615 Shell-Thick	INVSLE	1.1383	0.3111	-10.79	1.39	
1299	615 Shell-Thick	INVSLE	1.3767	0.0668	-12.60	1.39	
1299	615 Shell-Thick	INVSLU	2.4614	0.3186	-9.07	8.13	
1299	615 Shell-Thick	INVSLU	1.6323	1.1752	-7.94	8.13	
1299	615 Shell-Thick	INVSLU	3.9835	1.5024	-7.94	5.23	
1299	615 Shell-Thick	INVSLU	4.9001	0.5621	-9.07	5.23	
1299	615 Shell-Thick	INVSLU	0.7208	-0.1825	-19.41	3.00	
1299	615 Shell-Thick	INVSLU	0.4036	0.1435	-16.48	3.00	
1299	615 Shell-Thick	INVSLU	1.5368	0.4199	-16.48	1.88	
1299	615 Shell-Thick	INVSLU	1.8585	0.0902	-19.41	1.88	
1300	616 Shell-Thick	INVSLE	2.4485	0.2957	-8.03	3.29	
1300	616 Shell-Thick	INVSLE	1.6129	0.5826	-7.20	3.29	
1300	616 Shell-Thick	INVSLE	3.4268	0.9522	-7.20	1.45	
1300	616 Shell-Thick	INVSLE	4.3285	0.6020	-8.03	1.45	

1300	616 Shell-Thick	INVSLE	1.1286	0.0579	-14.77	1.43	
1300	616 Shell-Thick	INVSLE	0.7312	0.1889	-12.91	1.43	
1300	616 Shell-Thick	INVSLE	1.7403	0.4391	-12.91	0.61	
1300	616 Shell-Thick	INVSLE	2.1515	0.2952	-14.77	0.61	
1300	616 Shell-Thick	INVSLU	3.9790	0.5715	-10.84	5.44	
1300	616 Shell-Thick	INVSLU	2.6353	1.0392	-9.72	5.44	
1300	616 Shell-Thick	INVSLU	5.3825	1.5473	-9.72	2.43	
1300	616 Shell-Thick	INVSLU	6.8529	0.9577	-10.84	2.43	
1300	616 Shell-Thick	INVSLU	1.5236	0.0782	-22.58	1.93	
1300	616 Shell-Thick	INVSLU	0.9871	0.2550	-19.54	1.93	
1300	616 Shell-Thick	INVSLU	2.3494	0.5928	-19.54	0.82	
1300	616 Shell-Thick	INVSLU	2.9045	0.3986	-22.58	0.82	
1301	617 Shell-Thick	INVSLE	3.7793	0.6088	-9.60	1.58	
1301	617 Shell-Thick	INVSLE	2.5310	0.6564	-8.85	1.58	
1301	617 Shell-Thick	INVSLE	4.6770	1.1373	-8.85	-9.162E-02	
1301	617 Shell-Thick	INVSLE	6.0169	1.0015	-9.60	-9.162E-02	
1301	617 Shell-Thick	INVSLE	1.9623	0.2977	-17.33	0.65	
1301	617 Shell-Thick	INVSLE	1.3624	0.3232	-15.52	0.65	
1301	617 Shell-Thick	INVSLE	2.5800	0.6036	-15.52	-0.21	
1301	617 Shell-Thick	INVSLE	3.2056	0.5535	-17.33	-0.21	
1301	617 Shell-Thick	INVSLU	5.8864	0.9695	-12.96	2.65	
1301	617 Shell-Thick	INVSLU	3.8861	1.0428	-11.94	2.65	
1301	617 Shell-Thick	INVSLU	7.1088	1.7562	-11.94	-0.12	
1301	617 Shell-Thick	INVSLU	9.2769	1.5209	-12.96	-0.12	
1301	617 Shell-Thick	INVSLU	2.6491	0.4019	-26.29	0.88	
1301	617 Shell-Thick	INVSLU	1.8392	0.4363	-23.27	0.88	
1301	617 Shell-Thick	INVSLU	3.4831	0.8149	-23.27	-0.35	
1301	617 Shell-Thick	INVSLU	4.3276	0.7473	-26.29	-0.35	
1302	618 Shell-Thick	INVSLE	0.9258	0.2161	-5.94	6.43	
1302	618 Shell-Thick	INVSLE	0.5079	0.9194	-4.81	6.43	
1302	618 Shell-Thick	INVSLE	1.7978	0.9572	-4.81	4.22	
1302	618 Shell-Thick	INVSLE	2.2426	0.2292	-5.94	4.22	
1302	618 Shell-Thick	INVSLE	0.3159	-0.0626	-10.88	3.22	
1302	618 Shell-Thick	INVSLE	0.1284	0.2970	-8.65	3.22	
1302	618 Shell-Thick	INVSLE	0.8473	0.3846	-8.65	2.10	
1302	618 Shell-Thick	INVSLE	1.0312	0.0291	-10.88	2.10	
1302	618 Shell-Thick	INVSLU	1.6331	0.5393	-8.01	10.15	
1302	618 Shell-Thick	INVSLU	0.9479	1.6411	-6.49	10.15	
1302	618 Shell-Thick	INVSLU	2.9001	1.6213	-6.49	6.67	
1302	618 Shell-Thick	INVSLU	3.6473	0.4613	-8.01	6.67	
1302	618 Shell-Thick	INVSLU	0.4265	-0.0845	-16.61	4.34	
1302	618 Shell-Thick	INVSLU	0.1734	0.4010	-13.11	4.34	
1302	618 Shell-Thick	INVSLU	1.1438	0.5192	-13.11	2.84	
1302	618 Shell-Thick	INVSLU	1.3922	0.0393	-16.61	2.84	
1303	619 Shell-Thick	INVSLE	1.6290	0.2376	-7.25	4.36	
1303	619 Shell-Thick	INVSLE	0.8792	0.6425	-6.06	4.36	
1303	619 Shell-Thick	INVSLE	2.4317	0.8417	-6.06	2.00	
1303	619 Shell-Thick	INVSLE	3.2295	0.3915	-7.25	2.00	
1303	619 Shell-Thick	INVSLE	0.7485	0.0276	-13.00	2.16	
1303	619 Shell-Thick	INVSLE	0.3782	0.2357	-10.63	2.16	
1303	619 Shell-Thick	INVSLE	1.2631	0.4002	-10.63	0.98	
1303	619 Shell-Thick	INVSLE	1.6402	0.1863	-13.00	0.98	
1303	619 Shell-Thick	INVSLU	2.6501	0.4811	-9.79	6.90	
1303	619 Shell-Thick	INVSLU	1.4602	1.1141	-8.19	6.90	
1303	619 Shell-Thick	INVSLU	3.7868	1.3538	-8.19	3.19	
1303	619 Shell-Thick	INVSLU	5.0726	0.6296	-9.79	3.19	
1303	619 Shell-Thick	INVSLU	1.0105	0.0372	-19.67	2.91	
1303	619 Shell-Thick	INVSLU	0.5105	0.3182	-15.92	2.91	
1303	619 Shell-Thick	INVSLU	1.7052	0.5402	-15.92	1.32	
1303	619 Shell-Thick	INVSLU	2.2142	0.2514	-19.67	1.32	
1304	620 Shell-Thick	INVSLE	2.5535	0.3942	-8.89	2.15	
1304	620 Shell-Thick	INVSLE	1.3507	0.4877	-7.73	2.15	
1304	620 Shell-Thick	INVSLE	3.2346	0.8577	-7.73	-0.10	
1304	620 Shell-Thick	INVSLE	4.5130	0.6918	-8.89	-0.10	
1304	620 Shell-Thick	INVSLE	1.3779	0.1898	-15.60	1.04	
1304	620 Shell-Thick	INVSLE	0.7583	0.2432	-13.21	1.04	
1304	620 Shell-Thick	INVSLE	1.8573	0.4716	-13.21	-0.22	
1304	620 Shell-Thick	INVSLE	2.4970	0.3993	-15.60	-0.22	
1304	620 Shell-Thick	INVSLU	3.9166	0.6312	-12.00	3.44	
1304	620 Shell-Thick	INVSLU	2.0376	0.7712	-10.44	3.44	
1304	620 Shell-Thick	INVSLU	4.8317	1.3054	-10.44	-0.14	
1304	620 Shell-Thick	INVSLU	6.8509	1.0311	-12.00	-0.14	
1304	620 Shell-Thick	INVSLU	1.8602	0.2562	-23.37	1.40	
1304	620 Shell-Thick	INVSLU	1.0237	0.3284	-19.55	1.40	
1304	620 Shell-Thick	INVSLU	2.5073	0.6367	-19.55	-0.36	
1304	620 Shell-Thick	INVSLU	3.3709	0.5390	-23.37	-0.36	
1305	621 Shell-Thick	INVSLE	0.5411	0.4862	-4.88	8.27	
1305	621 Shell-Thick	INVSLE	0.2467	1.4162	-3.43	8.27	

1305	621	Shell-Thick	INVSLE	1.2346	1.1745	-3.43	5.59
1305	621	Shell-Thick	INVSLE	1.5346	0.2408	-4.88	5.59
1305	621	Shell-Thick	INVSLE	0.1595	0.0985	-8.78	4.48
1305	621	Shell-Thick	INVSLE	0.0381	0.6113	-6.07	4.48
1305	621	Shell-Thick	INVSLE	0.5993	0.5388	-6.07	3.04
1305	621	Shell-Thick	INVSLE	0.7076	0.0399	-8.78	3.04
1305	621	Shell-Thick	INVSLU	0.9837	0.9358	-6.59	12.66
1305	621	Shell-Thick	INVSLU	0.4886	2.3497	-4.63	12.66
1305	621	Shell-Thick	INVSLU	1.9712	1.9117	-4.63	8.54
1305	621	Shell-Thick	INVSLU	2.4937	0.4737	-6.59	8.54
1305	621	Shell-Thick	INVSLU	0.2153	0.1330	-13.29	6.05
1305	621	Shell-Thick	INVSLU	0.0514	0.8253	-9.14	6.05
1305	621	Shell-Thick	INVSLU	0.8091	0.7274	-9.14	4.10
1305	621	Shell-Thick	INVSLU	0.9552	0.0538	-13.29	4.10
1306	622	Shell-Thick	INVSLE	0.9307	0.2779	-6.14	5.75
1306	622	Shell-Thick	INVSLE	0.3351	0.8367	-4.50	5.75
1306	622	Shell-Thick	INVSLE	1.5541	0.7813	-4.50	2.75
1306	622	Shell-Thick	INVSLE	2.1783	0.1966	-6.14	2.75
1306	622	Shell-Thick	INVSLE	0.4163	0.0562	-10.75	3.12
1306	622	Shell-Thick	INVSLE	0.1164	0.3676	-7.73	3.12
1306	622	Shell-Thick	INVSLE	0.8276	0.3890	-7.73	1.49
1306	622	Shell-Thick	INVSLE	1.1252	0.0809	-10.75	1.49
1306	622	Shell-Thick	INVSLU	1.5272	0.5349	-8.29	8.81
1306	622	Shell-Thick	INVSLU	0.5887	1.3806	-6.08	8.81
1306	622	Shell-Thick	INVSLU	2.3966	1.2362	-6.08	4.21
1306	622	Shell-Thick	INVSLU	3.3994	0.3308	-8.29	4.21
1306	622	Shell-Thick	INVSLU	0.5620	0.0759	-16.11	4.21
1306	622	Shell-Thick	INVSLU	0.1572	0.4963	-11.47	4.21
1306	622	Shell-Thick	INVSLU	1.1172	0.5252	-11.47	2.01
1306	622	Shell-Thick	INVSLU	1.5191	0.1092	-16.11	2.01
1307	623	Shell-Thick	INVSLE	1.4222	0.2168	-7.81	2.93
1307	623	Shell-Thick	INVSLE	0.3768	0.3744	-6.11	2.93
1307	623	Shell-Thick	INVSLE	1.9175	0.5966	-6.11	-0.11
1307	623	Shell-Thick	INVSLE	3.0154	0.3899	-7.81	-0.11
1307	623	Shell-Thick	INVSLE	0.8026	0.0957	-13.33	1.57
1307	623	Shell-Thick	INVSLE	0.2243	0.1891	-10.15	1.57
1307	623	Shell-Thick	INVSLE	1.1476	0.3398	-10.15	-0.22
1307	623	Shell-Thick	INVSLE	1.7365	0.2371	-13.33	-0.22
1307	623	Shell-Thick	INVSLU	2.1406	0.3573	-10.54	4.51
1307	623	Shell-Thick	INVSLU	0.5535	0.5892	-8.25	4.51
1307	623	Shell-Thick	INVSLU	2.8104	0.8945	-8.25	-0.15
1307	623	Shell-Thick	INVSLU	4.4983	0.5672	-10.54	-0.15
1307	623	Shell-Thick	INVSLU	1.0835	0.1291	-19.74	2.12
1307	623	Shell-Thick	INVSLU	0.3028	0.2553	-14.84	2.12
1307	623	Shell-Thick	INVSLU	1.5493	0.4587	-14.84	-0.35
1307	623	Shell-Thick	INVSLU	2.3443	0.3200	-19.74	-0.35
1308	624	Shell-Thick	INVSLE	0.2964	0.8914	-3.52	10.63
1308	624	Shell-Thick	INVSLE	0.1825	2.1182	-1.75	10.63
1308	624	Shell-Thick	INVSLE	0.8108	1.5287	-1.75	7.49
1308	624	Shell-Thick	INVSLE	0.9089	0.3195	-3.52	7.49
1308	624	Shell-Thick	INVSLE	0.0816	0.3707	-6.23	6.11
1308	624	Shell-Thick	INVSLE	0.0608	1.0868	-3.07	6.11
1308	624	Shell-Thick	INVSLE	0.4248	0.7985	-3.07	4.35
1308	624	Shell-Thick	INVSLE	0.4214	0.1072	-6.23	4.35
1308	624	Shell-Thick	INVSLU	0.5456	1.4953	-4.76	15.86
1308	624	Shell-Thick	INVSLU	0.3235	3.3142	-2.36	15.86
1308	624	Shell-Thick	INVSLU	1.2584	2.3754	-2.36	11.12
1308	624	Shell-Thick	INVSLU	1.4742	0.5657	-4.76	11.12
1308	624	Shell-Thick	INVSLU	0.1102	0.5004	-9.37	8.25
1308	624	Shell-Thick	INVSLU	0.0821	1.4672	-4.60	8.25
1308	624	Shell-Thick	INVSLU	0.5735	1.0779	-4.60	5.88
1308	624	Shell-Thick	INVSLU	0.5688	0.1447	-9.37	5.88
1309	625	Shell-Thick	INVSLE	0.4279	0.4115	-4.61	7.68
1309	625	Shell-Thick	INVSLE	0.0371	1.1857	-2.39	7.68
1309	625	Shell-Thick	INVSLE	0.8326	0.8192	-2.39	3.85
1309	625	Shell-Thick	INVSLE	1.2286	0.0425	-4.61	3.85
1309	625	Shell-Thick	INVSLE	0.1815	0.1561	-7.91	4.45
1309	625	Shell-Thick	INVSLE	-0.0135	0.6140	-4.05	4.45
1309	625	Shell-Thick	INVSLE	0.4607	0.4428	-4.05	2.25
1309	625	Shell-Thick	INVSLE	0.6423	-4.907E-04	-7.91	2.25
1309	625	Shell-Thick	INVSLU	0.7135	0.7077	-6.23	11.43
1309	625	Shell-Thick	INVSLU	0.0958	1.8487	-3.23	11.43
1309	625	Shell-Thick	INVSLU	1.2640	1.2557	-3.23	5.71
1309	625	Shell-Thick	INVSLU	1.9084	0.0924	-6.23	5.71
1309	625	Shell-Thick	INVSLU	0.2451	0.2107	-11.74	6.01
1309	625	Shell-Thick	INVSLU	-0.0183	0.8289	-5.97	6.01
1309	625	Shell-Thick	INVSLU	0.6219	0.5978	-5.97	3.04
1309	625	Shell-Thick	INVSLU	0.8671	-6.625E-04	-11.74	3.04

1310	626	Shell-Thick	INVSLE	0.5225	0.1343	-6.23	4.09
1310	626	Shell-Thick	INVSLE	-0.1112	0.3827	-3.71	4.09
1310	626	Shell-Thick	INVSLE	0.8926	0.3883	-3.71	-0.12
1310	626	Shell-Thick	INVSLE	1.6276	0.1157	-6.23	-0.12
1310	626	Shell-Thick	INVSLE	0.3150	0.0547	-10.35	2.37
1310	626	Shell-Thick	INVSLE	-0.1849	0.2077	-6.01	2.37
1310	626	Shell-Thick	INVSLE	0.5530	0.2280	-6.01	-0.22
1310	626	Shell-Thick	INVSLE	0.9777	0.0781	-10.35	-0.22
1310	626	Shell-Thick	INVSLU	0.7631	0.2265	-8.41	6.09
1310	626	Shell-Thick	INVSLU	-0.1501	0.5856	-5.01	6.09
1310	626	Shell-Thick	INVSLU	1.2865	0.5742	-5.01	-0.16
1310	626	Shell-Thick	INVSLU	2.3813	0.1619	-8.41	-0.16
1310	626	Shell-Thick	INVSLU	0.4253	0.0739	-15.13	3.21
1310	626	Shell-Thick	INVSLU	-0.2704	0.2804	-8.66	3.21
1310	626	Shell-Thick	INVSLU	0.7465	0.3078	-8.66	-0.33
1310	626	Shell-Thick	INVSLU	1.3199	0.1054	-15.13	-0.33
1311	627	Shell-Thick	INVSLE	0.2179	1.4075	-1.86	13.65
1311	627	Shell-Thick	INVSLE	0.3850	3.0325	0.23	13.65
1311	627	Shell-Thick	INVSLE	0.6082	1.9334	0.23	10.19
1311	627	Shell-Thick	INVSLE	0.3981	0.3527	-1.86	10.19
1311	627	Shell-Thick	INVSLE	0.1043	0.7778	-3.25	8.21
1311	627	Shell-Thick	INVSLE	0.2251	1.7688	0.13	8.21
1311	627	Shell-Thick	INVSLE	0.3596	1.1544	0.13	6.23
1311	627	Shell-Thick	INVSLE	0.2003	0.2024	-3.25	6.23
1311	627	Shell-Thick	INVSLU	0.3495	2.1378	-2.51	19.95
1311	627	Shell-Thick	INVSLU	0.5704	4.4980	0.34	19.95
1311	627	Shell-Thick	INVSLU	0.8965	2.8366	0.34	14.78
1311	627	Shell-Thick	INVSLU	0.6274	0.5269	-2.51	14.78
1311	627	Shell-Thick	INVSLU	0.1409	1.0500	-4.87	11.09
1311	627	Shell-Thick	INVSLU	0.3039	2.3878	0.18	11.09
1311	627	Shell-Thick	INVSLU	0.4854	1.5585	0.18	8.42
1311	627	Shell-Thick	INVSLU	0.2704	0.2733	-4.87	8.42
1312	628	Shell-Thick	INVSLE	0.1345	0.5129	-2.54	10.41
1312	628	Shell-Thick	INVSLE	0.1123	1.6212	0.22	10.41
1312	628	Shell-Thick	INVSLE	0.3916	0.8981	0.22	5.94
1312	628	Shell-Thick	INVSLE	0.3984	-0.1182	-2.54	5.94
1312	628	Shell-Thick	INVSLE	0.0612	0.2905	-4.29	6.35
1312	628	Shell-Thick	INVSLE	0.0660	0.9798	0.13	6.35
1312	628	Shell-Thick	INVSLE	0.2389	0.5447	0.13	3.70
1312	628	Shell-Thick	INVSLE	0.2090	-0.1922	-4.29	3.70
1312	628	Shell-Thick	INVSLU	0.2194	0.7708	-3.43	15.12
1312	628	Shell-Thick	INVSLU	0.1660	2.3650	0.32	15.12
1312	628	Shell-Thick	INVSLU	0.5686	1.3079	0.32	8.53
1312	628	Shell-Thick	INVSLU	0.6180	-0.1596	-3.43	8.53
1312	628	Shell-Thick	INVSLU	0.0827	0.3922	-6.32	8.58
1312	628	Shell-Thick	INVSLU	0.0891	1.3227	0.18	8.58
1312	628	Shell-Thick	INVSLU	0.3225	0.7353	0.18	5.00
1312	628	Shell-Thick	INVSLU	0.2822	-0.2780	-6.32	5.00
1313	629	Shell-Thick	INVSLE	0.0655	0.0650	-3.92	6.27
1313	629	Shell-Thick	INVSLE	-0.0825	0.4706	0.23	6.27
1313	629	Shell-Thick	INVSLE	0.2770	0.2786	0.23	-0.14
1313	629	Shell-Thick	INVSLE	0.4754	-0.0752	-3.92	-0.14
1313	629	Shell-Thick	INVSLE	0.0508	0.0353	-6.33	3.89
1313	629	Shell-Thick	INVSLE	-0.1272	0.2953	0.15	3.89
1313	629	Shell-Thick	INVSLE	0.1755	0.1695	0.15	-0.23
1313	629	Shell-Thick	INVSLE	0.2959	-0.1282	-6.33	-0.23
1313	629	Shell-Thick	INVSLU	0.0907	0.0994	-5.29	9.03
1313	629	Shell-Thick	INVSLU	-0.1114	0.6740	0.32	9.03
1313	629	Shell-Thick	INVSLU	0.3948	0.4052	0.32	-0.19
1313	629	Shell-Thick	INVSLU	0.6835	-0.1015	-5.29	-0.19
1313	629	Shell-Thick	INVSLU	0.0686	0.0476	-9.12	5.25
1313	629	Shell-Thick	INVSLU	-0.1790	0.3986	0.20	5.25
1313	629	Shell-Thick	INVSLU	0.2369	0.2288	0.20	-0.34
1313	629	Shell-Thick	INVSLU	0.3994	-0.1896	-9.12	-0.34

Table: Joint Coordinates, Part 1 of 2

Joint	CoordSys	CoordType	XorR m	Y m	Z m	SpecialJt	GlobalX m
1	GLOBAL	Cartesian	0.00000	0.00000	0.00000	No	0.00000
2	GLOBAL	Cartesian	4.40000	0.00000	0.00000	No	4.40000
18	GLOBAL	Cartesian	4.40000	0.00000	2.30000	No	4.40000
19	GLOBAL	Cartesian	4.40000	0.00000	2.15002	No	4.40000
20	GLOBAL	Cartesian	4.40000	0.00000	2.01565	No	4.40000
21	GLOBAL	Cartesian	4.40000	0.00000	1.88127	No	4.40000
22	GLOBAL	Cartesian	4.40000	0.00000	1.74689	No	4.40000

23	GLOBAL	Cartesian	4.40000	0.00000	1.61252	No	4.40000
24	GLOBAL	Cartesian	4.40000	0.00000	1.47814	No	4.40000
25	GLOBAL	Cartesian	4.40000	0.00000	1.34376	No	4.40000
26	GLOBAL	Cartesian	4.40000	0.00000	1.20939	No	4.40000
27	GLOBAL	Cartesian	4.40000	0.00000	1.07501	No	4.40000
28	GLOBAL	Cartesian	4.40000	0.00000	0.94064	No	4.40000
29	GLOBAL	Cartesian	4.40000	0.00000	0.80626	No	4.40000
30	GLOBAL	Cartesian	4.40000	0.00000	0.67188	No	4.40000
31	GLOBAL	Cartesian	4.40000	0.00000	0.53751	No	4.40000
32	GLOBAL	Cartesian	4.40000	0.00000	0.40313	No	4.40000
33	GLOBAL	Cartesian	4.40000	0.00000	0.26875	No	4.40000
34	GLOBAL	Cartesian	4.40000	0.00000	0.13438	No	4.40000
193	GLOBAL	Cartesian	4.13333	0.00000	2.30000	No	4.13333
194	GLOBAL	Cartesian	4.26667	0.00000	2.30000	No	4.26667
195	GLOBAL	Cartesian	4.13333	0.00000	2.15002	No	4.13333
196	GLOBAL	Cartesian	4.26667	0.00000	2.15002	No	4.26667
197	GLOBAL	Cartesian	4.13333	0.00000	2.01565	No	4.13333
198	GLOBAL	Cartesian	4.26667	0.00000	2.01565	No	4.26667
199	GLOBAL	Cartesian	4.13333	0.00000	1.88127	No	4.13333
200	GLOBAL	Cartesian	4.26667	0.00000	1.88127	No	4.26667
201	GLOBAL	Cartesian	4.13333	0.00000	1.74689	No	4.13333
202	GLOBAL	Cartesian	4.26667	0.00000	1.74689	No	4.26667
203	GLOBAL	Cartesian	4.13333	0.00000	1.61252	No	4.13333
204	GLOBAL	Cartesian	4.26667	0.00000	1.61252	No	4.26667
205	GLOBAL	Cartesian	4.13333	0.00000	1.47814	No	4.13333
206	GLOBAL	Cartesian	4.26667	0.00000	1.47814	No	4.26667
207	GLOBAL	Cartesian	4.13333	0.00000	1.34376	No	4.13333
208	GLOBAL	Cartesian	4.26667	0.00000	1.34376	No	4.26667
209	GLOBAL	Cartesian	4.13333	0.00000	1.20939	No	4.13333
210	GLOBAL	Cartesian	4.26667	0.00000	1.20939	No	4.26667
211	GLOBAL	Cartesian	4.13333	0.00000	1.07501	No	4.13333
212	GLOBAL	Cartesian	4.26667	0.00000	1.07501	No	4.26667
213	GLOBAL	Cartesian	4.13333	0.00000	0.94064	No	4.13333
214	GLOBAL	Cartesian	4.26667	0.00000	0.94064	No	4.26667
215	GLOBAL	Cartesian	4.13333	0.00000	0.80626	No	4.13333
216	GLOBAL	Cartesian	4.26667	0.00000	0.80626	No	4.26667
217	GLOBAL	Cartesian	4.13333	0.00000	0.67188	No	4.13333
218	GLOBAL	Cartesian	4.26667	0.00000	0.67188	No	4.26667
219	GLOBAL	Cartesian	4.13333	0.00000	0.53751	No	4.13333
220	GLOBAL	Cartesian	4.26667	0.00000	0.53751	No	4.26667
221	GLOBAL	Cartesian	4.13333	0.00000	0.40313	No	4.13333
222	GLOBAL	Cartesian	4.26667	0.00000	0.40313	No	4.26667
223	GLOBAL	Cartesian	4.13333	0.00000	0.26875	No	4.13333
224	GLOBAL	Cartesian	4.26667	0.00000	0.26875	No	4.26667
225	GLOBAL	Cartesian	4.13333	0.00000	0.13438	No	4.13333
226	GLOBAL	Cartesian	4.26667	0.00000	0.13438	No	4.26667
227	GLOBAL	Cartesian	4.13333	0.00000	0.00000	No	4.13333
228	GLOBAL	Cartesian	4.26667	0.00000	0.00000	No	4.26667
443	GLOBAL	Cartesian	4.00000	0.00000	0.00000	No	4.00000
1015	GLOBAL	Cartesian	0.00000	0.00000	2.30000	No	0.00000
1016	GLOBAL	Cartesian	0.11765	0.00000	2.30000	No	0.11765
1017	GLOBAL	Cartesian	0.23529	0.00000	2.30000	No	0.23529
1018	GLOBAL	Cartesian	0.35294	0.00000	2.30000	No	0.35294
1019	GLOBAL	Cartesian	0.47059	0.00000	2.30000	No	0.47059
1020	GLOBAL	Cartesian	0.58824	0.00000	2.30000	No	0.58824
1021	GLOBAL	Cartesian	0.70588	0.00000	2.30000	No	0.70588
1022	GLOBAL	Cartesian	0.82353	0.00000	2.30000	No	0.82353
1023	GLOBAL	Cartesian	0.94118	0.00000	2.30000	No	0.94118
1024	GLOBAL	Cartesian	1.05882	0.00000	2.30000	No	1.05882
1025	GLOBAL	Cartesian	1.17647	0.00000	2.30000	No	1.17647
1026	GLOBAL	Cartesian	1.29412	0.00000	2.30000	No	1.29412
1027	GLOBAL	Cartesian	1.41176	0.00000	2.30000	No	1.41176
1028	GLOBAL	Cartesian	1.52941	0.00000	2.30000	No	1.52941
1029	GLOBAL	Cartesian	1.64706	0.00000	2.30000	No	1.64706
1030	GLOBAL	Cartesian	1.76471	0.00000	2.30000	No	1.76471
1031	GLOBAL	Cartesian	1.88235	0.00000	2.30000	No	1.88235
1032	GLOBAL	Cartesian	2.00000	0.00000	2.30000	No	2.00000
1033	GLOBAL	Cartesian	2.11765	0.00000	2.30000	No	2.11765
1034	GLOBAL	Cartesian	2.23529	0.00000	2.30000	No	2.23529
1035	GLOBAL	Cartesian	2.35294	0.00000	2.30000	No	2.35294
1036	GLOBAL	Cartesian	2.47059	0.00000	2.30000	No	2.47059
1037	GLOBAL	Cartesian	2.58824	0.00000	2.30000	No	2.58824
1038	GLOBAL	Cartesian	2.70588	0.00000	2.30000	No	2.70588
1039	GLOBAL	Cartesian	2.82353	0.00000	2.30000	No	2.82353
1040	GLOBAL	Cartesian	2.94118	0.00000	2.30000	No	2.94118
1041	GLOBAL	Cartesian	3.05882	0.00000	2.30000	No	3.05882
1042	GLOBAL	Cartesian	3.17647	0.00000	2.30000	No	3.17647
1043	GLOBAL	Cartesian	3.29412	0.00000	2.30000	No	3.29412

1044	GLOBAL	Cartesian	3.41176	0.00000	2.30000	No	3.41176
1045	GLOBAL	Cartesian	3.52941	0.00000	2.30000	No	3.52941
1046	GLOBAL	Cartesian	3.64706	0.00000	2.30000	No	3.64706
1047	GLOBAL	Cartesian	3.76471	0.00000	2.30000	No	3.76471
1048	GLOBAL	Cartesian	3.88235	0.00000	2.30000	No	3.88235
1049	GLOBAL	Cartesian	4.00000	0.00000	2.30000	No	4.00000
1050	GLOBAL	Cartesian	0.00000	0.00000	2.15002	No	0.00000
1051	GLOBAL	Cartesian	0.11765	0.00000	2.15002	No	0.11765
1052	GLOBAL	Cartesian	0.23529	0.00000	2.15002	No	0.23529
1053	GLOBAL	Cartesian	0.35294	0.00000	2.15002	No	0.35294
1054	GLOBAL	Cartesian	0.47059	0.00000	2.15002	No	0.47059
1055	GLOBAL	Cartesian	0.58824	0.00000	2.15002	No	0.58824
1056	GLOBAL	Cartesian	0.70588	0.00000	2.15002	No	0.70588
1057	GLOBAL	Cartesian	0.82353	0.00000	2.15002	No	0.82353
1058	GLOBAL	Cartesian	0.94118	0.00000	2.15002	No	0.94118
1059	GLOBAL	Cartesian	1.05882	0.00000	2.15002	No	1.05882
1060	GLOBAL	Cartesian	1.17647	0.00000	2.15002	No	1.17647
1061	GLOBAL	Cartesian	1.29412	0.00000	2.15002	No	1.29412
1062	GLOBAL	Cartesian	1.41176	0.00000	2.15002	No	1.41176
1063	GLOBAL	Cartesian	1.52941	0.00000	2.15002	No	1.52941
1064	GLOBAL	Cartesian	1.64706	0.00000	2.15002	No	1.64706
1065	GLOBAL	Cartesian	1.76471	0.00000	2.15002	No	1.76471
1066	GLOBAL	Cartesian	1.88235	0.00000	2.15002	No	1.88235
1067	GLOBAL	Cartesian	2.00000	0.00000	2.15002	No	2.00000
1068	GLOBAL	Cartesian	2.11765	0.00000	2.15002	No	2.11765
1069	GLOBAL	Cartesian	2.23529	0.00000	2.15002	No	2.23529
1070	GLOBAL	Cartesian	2.35294	0.00000	2.15002	No	2.35294
1071	GLOBAL	Cartesian	2.47059	0.00000	2.15002	No	2.47059
1072	GLOBAL	Cartesian	2.58824	0.00000	2.15002	No	2.58824
1073	GLOBAL	Cartesian	2.70588	0.00000	2.15002	No	2.70588
1074	GLOBAL	Cartesian	2.82353	0.00000	2.15002	No	2.82353
1075	GLOBAL	Cartesian	2.94118	0.00000	2.15002	No	2.94118
1076	GLOBAL	Cartesian	3.05882	0.00000	2.15002	No	3.05882
1077	GLOBAL	Cartesian	3.17647	0.00000	2.15002	No	3.17647
1078	GLOBAL	Cartesian	3.29412	0.00000	2.15002	No	3.29412
1079	GLOBAL	Cartesian	3.41176	0.00000	2.15002	No	3.41176
1080	GLOBAL	Cartesian	3.52941	0.00000	2.15002	No	3.52941
1081	GLOBAL	Cartesian	3.64706	0.00000	2.15002	No	3.64706
1082	GLOBAL	Cartesian	3.76471	0.00000	2.15002	No	3.76471
1083	GLOBAL	Cartesian	3.88235	0.00000	2.15002	No	3.88235
1084	GLOBAL	Cartesian	4.00000	0.00000	2.15002	No	4.00000
1085	GLOBAL	Cartesian	0.00000	0.00000	2.01565	No	0.00000
1086	GLOBAL	Cartesian	0.11765	0.00000	2.01565	No	0.11765
1087	GLOBAL	Cartesian	0.23529	0.00000	2.01565	No	0.23529
1088	GLOBAL	Cartesian	0.35294	0.00000	2.01565	No	0.35294
1089	GLOBAL	Cartesian	0.47059	0.00000	2.01565	No	0.47059
1090	GLOBAL	Cartesian	0.58824	0.00000	2.01565	No	0.58824
1091	GLOBAL	Cartesian	0.70588	0.00000	2.01565	No	0.70588
1092	GLOBAL	Cartesian	0.82353	0.00000	2.01565	No	0.82353
1093	GLOBAL	Cartesian	0.94118	0.00000	2.01565	No	0.94118
1094	GLOBAL	Cartesian	1.05882	0.00000	2.01565	No	1.05882
1095	GLOBAL	Cartesian	1.17647	0.00000	2.01565	No	1.17647
1096	GLOBAL	Cartesian	1.29412	0.00000	2.01565	No	1.29412
1097	GLOBAL	Cartesian	1.41176	0.00000	2.01565	No	1.41176
1098	GLOBAL	Cartesian	1.52941	0.00000	2.01565	No	1.52941
1099	GLOBAL	Cartesian	1.64706	0.00000	2.01565	No	1.64706
1100	GLOBAL	Cartesian	1.76471	0.00000	2.01565	No	1.76471
1101	GLOBAL	Cartesian	1.88235	0.00000	2.01565	No	1.88235
1102	GLOBAL	Cartesian	2.00000	0.00000	2.01565	No	2.00000
1103	GLOBAL	Cartesian	2.11765	0.00000	2.01565	No	2.11765
1104	GLOBAL	Cartesian	2.23529	0.00000	2.01565	No	2.23529
1105	GLOBAL	Cartesian	2.35294	0.00000	2.01565	No	2.35294
1106	GLOBAL	Cartesian	2.47059	0.00000	2.01565	No	2.47059
1107	GLOBAL	Cartesian	2.58824	0.00000	2.01565	No	2.58824
1108	GLOBAL	Cartesian	2.70588	0.00000	2.01565	No	2.70588
1109	GLOBAL	Cartesian	2.82353	0.00000	2.01565	No	2.82353
1110	GLOBAL	Cartesian	2.94118	0.00000	2.01565	No	2.94118
1111	GLOBAL	Cartesian	3.05882	0.00000	2.01565	No	3.05882
1112	GLOBAL	Cartesian	3.17647	0.00000	2.01565	No	3.17647
1113	GLOBAL	Cartesian	3.29412	0.00000	2.01565	No	3.29412
1114	GLOBAL	Cartesian	3.41176	0.00000	2.01565	No	3.41176
1115	GLOBAL	Cartesian	3.52941	0.00000	2.01565	No	3.52941
1116	GLOBAL	Cartesian	3.64706	0.00000	2.01565	No	3.64706
1117	GLOBAL	Cartesian	3.76471	0.00000	2.01565	No	3.76471
1118	GLOBAL	Cartesian	3.88235	0.00000	2.01565	No	3.88235
1119	GLOBAL	Cartesian	4.00000	0.00000	2.01565	No	4.00000
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1121	GLOBAL	Cartesian	0.11765	0.00000	1.88127	No	0.11765

1122	GLOBAL	Cartesian	0.23529	0.00000	1.88127	No	0.23529
1123	GLOBAL	Cartesian	0.35294	0.00000	1.88127	No	0.35294
1124	GLOBAL	Cartesian	0.47059	0.00000	1.88127	No	0.47059
1125	GLOBAL	Cartesian	0.58824	0.00000	1.88127	No	0.58824
1126	GLOBAL	Cartesian	0.70588	0.00000	1.88127	No	0.70588
1127	GLOBAL	Cartesian	0.82353	0.00000	1.88127	No	0.82353
1128	GLOBAL	Cartesian	0.94118	0.00000	1.88127	No	0.94118
1129	GLOBAL	Cartesian	1.05882	0.00000	1.88127	No	1.05882
1130	GLOBAL	Cartesian	1.17647	0.00000	1.88127	No	1.17647
1131	GLOBAL	Cartesian	1.29412	0.00000	1.88127	No	1.29412
1132	GLOBAL	Cartesian	1.41176	0.00000	1.88127	No	1.41176
1133	GLOBAL	Cartesian	1.52941	0.00000	1.88127	No	1.52941
1134	GLOBAL	Cartesian	1.64706	0.00000	1.88127	No	1.64706
1135	GLOBAL	Cartesian	1.76471	0.00000	1.88127	No	1.76471
1136	GLOBAL	Cartesian	1.88235	0.00000	1.88127	No	1.88235
1137	GLOBAL	Cartesian	2.00000	0.00000	1.88127	No	2.00000
1138	GLOBAL	Cartesian	2.11765	0.00000	1.88127	No	2.11765
1139	GLOBAL	Cartesian	2.23529	0.00000	1.88127	No	2.23529
1140	GLOBAL	Cartesian	2.35294	0.00000	1.88127	No	2.35294
1141	GLOBAL	Cartesian	2.47059	0.00000	1.88127	No	2.47059
1142	GLOBAL	Cartesian	2.58824	0.00000	1.88127	No	2.58824
1143	GLOBAL	Cartesian	2.70588	0.00000	1.88127	No	2.70588
1144	GLOBAL	Cartesian	2.82353	0.00000	1.88127	No	2.82353
1145	GLOBAL	Cartesian	2.94118	0.00000	1.88127	No	2.94118
1146	GLOBAL	Cartesian	3.05882	0.00000	1.88127	No	3.05882
1147	GLOBAL	Cartesian	3.17647	0.00000	1.88127	No	3.17647
1148	GLOBAL	Cartesian	3.29412	0.00000	1.88127	No	3.29412
1149	GLOBAL	Cartesian	3.41176	0.00000	1.88127	No	3.41176
1150	GLOBAL	Cartesian	3.52941	0.00000	1.88127	No	3.52941
1151	GLOBAL	Cartesian	3.64706	0.00000	1.88127	No	3.64706
1152	GLOBAL	Cartesian	3.76471	0.00000	1.88127	No	3.76471
1153	GLOBAL	Cartesian	3.88235	0.00000	1.88127	No	3.88235
1154	GLOBAL	Cartesian	4.00000	0.00000	1.88127	No	4.00000
1155	GLOBAL	Cartesian	0.00000	0.00000	1.74689	No	0.00000
1156	GLOBAL	Cartesian	0.11765	0.00000	1.74689	No	0.11765
1157	GLOBAL	Cartesian	0.23529	0.00000	1.74689	No	0.23529
1158	GLOBAL	Cartesian	0.35294	0.00000	1.74689	No	0.35294
1159	GLOBAL	Cartesian	0.47059	0.00000	1.74689	No	0.47059
1160	GLOBAL	Cartesian	0.58824	0.00000	1.74689	No	0.58824
1161	GLOBAL	Cartesian	0.70588	0.00000	1.74689	No	0.70588
1162	GLOBAL	Cartesian	0.82353	0.00000	1.74689	No	0.82353
1163	GLOBAL	Cartesian	0.94118	0.00000	1.74689	No	0.94118
1164	GLOBAL	Cartesian	1.05882	0.00000	1.74689	No	1.05882
1165	GLOBAL	Cartesian	1.17647	0.00000	1.74689	No	1.17647
1166	GLOBAL	Cartesian	1.29412	0.00000	1.74689	No	1.29412
1167	GLOBAL	Cartesian	1.41176	0.00000	1.74689	No	1.41176
1168	GLOBAL	Cartesian	1.52941	0.00000	1.74689	No	1.52941
1169	GLOBAL	Cartesian	1.64706	0.00000	1.74689	No	1.64706
1170	GLOBAL	Cartesian	1.76471	0.00000	1.74689	No	1.76471
1171	GLOBAL	Cartesian	1.88235	0.00000	1.74689	No	1.88235
1172	GLOBAL	Cartesian	2.00000	0.00000	1.74689	No	2.00000
1173	GLOBAL	Cartesian	2.11765	0.00000	1.74689	No	2.11765
1174	GLOBAL	Cartesian	2.23529	0.00000	1.74689	No	2.23529
1175	GLOBAL	Cartesian	2.35294	0.00000	1.74689	No	2.35294
1176	GLOBAL	Cartesian	2.47059	0.00000	1.74689	No	2.47059
1177	GLOBAL	Cartesian	2.58824	0.00000	1.74689	No	2.58824
1178	GLOBAL	Cartesian	2.70588	0.00000	1.74689	No	2.70588
1179	GLOBAL	Cartesian	2.82353	0.00000	1.74689	No	2.82353
1180	GLOBAL	Cartesian	2.94118	0.00000	1.74689	No	2.94118
1181	GLOBAL	Cartesian	3.05882	0.00000	1.74689	No	3.05882
1182	GLOBAL	Cartesian	3.17647	0.00000	1.74689	No	3.17647
1183	GLOBAL	Cartesian	3.29412	0.00000	1.74689	No	3.29412
1184	GLOBAL	Cartesian	3.41176	0.00000	1.74689	No	3.41176
1185	GLOBAL	Cartesian	3.52941	0.00000	1.74689	No	3.52941
1186	GLOBAL	Cartesian	3.64706	0.00000	1.74689	No	3.64706
1187	GLOBAL	Cartesian	3.76471	0.00000	1.74689	No	3.76471
1188	GLOBAL	Cartesian	3.88235	0.00000	1.74689	No	3.88235
1189	GLOBAL	Cartesian	4.00000	0.00000	1.74689	No	4.00000
1190	GLOBAL	Cartesian	0.00000	0.00000	1.61252	No	0.00000
1191	GLOBAL	Cartesian	0.11765	0.00000	1.61252	No	0.11765
1192	GLOBAL	Cartesian	0.23529	0.00000	1.61252	No	0.23529
1193	GLOBAL	Cartesian	0.35294	0.00000	1.61252	No	0.35294
1194	GLOBAL	Cartesian	0.47059	0.00000	1.61252	No	0.47059
1195	GLOBAL	Cartesian	0.58824	0.00000	1.61252	No	0.58824
1196	GLOBAL	Cartesian	0.70588	0.00000	1.61252	No	0.70588
1197	GLOBAL	Cartesian	0.82353	0.00000	1.61252	No	0.82353
1198	GLOBAL	Cartesian	0.94118	0.00000	1.61252	No	0.94118
1199	GLOBAL	Cartesian	1.05882	0.00000	1.61252	No	1.05882

1200	GLOBAL	Cartesian	1.17647	0.00000	1.61252	No	1.17647
1201	GLOBAL	Cartesian	1.29412	0.00000	1.61252	No	1.29412
1202	GLOBAL	Cartesian	1.41176	0.00000	1.61252	No	1.41176
1203	GLOBAL	Cartesian	1.52941	0.00000	1.61252	No	1.52941
1204	GLOBAL	Cartesian	1.64706	0.00000	1.61252	No	1.64706
1205	GLOBAL	Cartesian	1.76471	0.00000	1.61252	No	1.76471
1206	GLOBAL	Cartesian	1.88235	0.00000	1.61252	No	1.88235
1207	GLOBAL	Cartesian	2.00000	0.00000	1.61252	No	2.00000
1208	GLOBAL	Cartesian	2.11765	0.00000	1.61252	No	2.11765
1209	GLOBAL	Cartesian	2.23529	0.00000	1.61252	No	2.23529
1210	GLOBAL	Cartesian	2.35294	0.00000	1.61252	No	2.35294
1211	GLOBAL	Cartesian	2.47059	0.00000	1.61252	No	2.47059
1212	GLOBAL	Cartesian	2.58824	0.00000	1.61252	No	2.58824
1213	GLOBAL	Cartesian	2.70588	0.00000	1.61252	No	2.70588
1214	GLOBAL	Cartesian	2.82353	0.00000	1.61252	No	2.82353
1215	GLOBAL	Cartesian	2.94118	0.00000	1.61252	No	2.94118
1216	GLOBAL	Cartesian	3.05882	0.00000	1.61252	No	3.05882
1217	GLOBAL	Cartesian	3.17647	0.00000	1.61252	No	3.17647
1218	GLOBAL	Cartesian	3.29412	0.00000	1.61252	No	3.29412
1219	GLOBAL	Cartesian	3.41176	0.00000	1.61252	No	3.41176
1220	GLOBAL	Cartesian	3.52941	0.00000	1.61252	No	3.52941
1221	GLOBAL	Cartesian	3.64706	0.00000	1.61252	No	3.64706
1222	GLOBAL	Cartesian	3.76471	0.00000	1.61252	No	3.76471
1223	GLOBAL	Cartesian	3.88235	0.00000	1.61252	No	3.88235
1224	GLOBAL	Cartesian	4.00000	0.00000	1.61252	No	4.00000
1225	GLOBAL	Cartesian	0.00000	0.00000	1.47814	No	0.00000
1226	GLOBAL	Cartesian	0.11765	0.00000	1.47814	No	0.11765
1227	GLOBAL	Cartesian	0.23529	0.00000	1.47814	No	0.23529
1228	GLOBAL	Cartesian	0.35294	0.00000	1.47814	No	0.35294
1229	GLOBAL	Cartesian	0.47059	0.00000	1.47814	No	0.47059
1230	GLOBAL	Cartesian	0.58824	0.00000	1.47814	No	0.58824
1231	GLOBAL	Cartesian	0.70588	0.00000	1.47814	No	0.70588
1232	GLOBAL	Cartesian	0.82353	0.00000	1.47814	No	0.82353
1233	GLOBAL	Cartesian	0.94118	0.00000	1.47814	No	0.94118
1234	GLOBAL	Cartesian	1.05882	0.00000	1.47814	No	1.05882
1235	GLOBAL	Cartesian	1.17647	0.00000	1.47814	No	1.17647
1236	GLOBAL	Cartesian	1.29412	0.00000	1.47814	No	1.29412
1237	GLOBAL	Cartesian	1.41176	0.00000	1.47814	No	1.41176
1238	GLOBAL	Cartesian	1.52941	0.00000	1.47814	No	1.52941
1239	GLOBAL	Cartesian	1.64706	0.00000	1.47814	No	1.64706
1240	GLOBAL	Cartesian	1.76471	0.00000	1.47814	No	1.76471
1241	GLOBAL	Cartesian	1.88235	0.00000	1.47814	No	1.88235
1242	GLOBAL	Cartesian	2.00000	0.00000	1.47814	No	2.00000
1243	GLOBAL	Cartesian	2.11765	0.00000	1.47814	No	2.11765
1244	GLOBAL	Cartesian	2.23529	0.00000	1.47814	No	2.23529
1245	GLOBAL	Cartesian	2.35294	0.00000	1.47814	No	2.35294
1246	GLOBAL	Cartesian	2.47059	0.00000	1.47814	No	2.47059
1247	GLOBAL	Cartesian	2.58824	0.00000	1.47814	No	2.58824
1248	GLOBAL	Cartesian	2.70588	0.00000	1.47814	No	2.70588
1249	GLOBAL	Cartesian	2.82353	0.00000	1.47814	No	2.82353
1250	GLOBAL	Cartesian	2.94118	0.00000	1.47814	No	2.94118
1251	GLOBAL	Cartesian	3.05882	0.00000	1.47814	No	3.05882
1252	GLOBAL	Cartesian	3.17647	0.00000	1.47814	No	3.17647
1253	GLOBAL	Cartesian	3.29412	0.00000	1.47814	No	3.29412
1254	GLOBAL	Cartesian	3.41176	0.00000	1.47814	No	3.41176
1255	GLOBAL	Cartesian	3.52941	0.00000	1.47814	No	3.52941
1256	GLOBAL	Cartesian	3.64706	0.00000	1.47814	No	3.64706
1257	GLOBAL	Cartesian	3.76471	0.00000	1.47814	No	3.76471
1258	GLOBAL	Cartesian	3.88235	0.00000	1.47814	No	3.88235
1259	GLOBAL	Cartesian	4.00000	0.00000	1.47814	No	4.00000
1260	GLOBAL	Cartesian	0.00000	0.00000	1.34376	No	0.00000
1261	GLOBAL	Cartesian	0.11765	0.00000	1.34376	No	0.11765
1262	GLOBAL	Cartesian	0.23529	0.00000	1.34376	No	0.23529
1263	GLOBAL	Cartesian	0.35294	0.00000	1.34376	No	0.35294
1264	GLOBAL	Cartesian	0.47059	0.00000	1.34376	No	0.47059
1265	GLOBAL	Cartesian	0.58824	0.00000	1.34376	No	0.58824
1266	GLOBAL	Cartesian	0.70588	0.00000	1.34376	No	0.70588
1267	GLOBAL	Cartesian	0.82353	0.00000	1.34376	No	0.82353
1268	GLOBAL	Cartesian	0.94118	0.00000	1.34376	No	0.94118
1269	GLOBAL	Cartesian	1.05882	0.00000	1.34376	No	1.05882
1270	GLOBAL	Cartesian	1.17647	0.00000	1.34376	No	1.17647
1271	GLOBAL	Cartesian	1.29412	0.00000	1.34376	No	1.29412
1272	GLOBAL	Cartesian	1.41176	0.00000	1.34376	No	1.41176
1273	GLOBAL	Cartesian	1.52941	0.00000	1.34376	No	1.52941
1274	GLOBAL	Cartesian	1.64706	0.00000	1.34376	No	1.64706
1275	GLOBAL	Cartesian	1.76471	0.00000	1.34376	No	1.76471
1276	GLOBAL	Cartesian	1.88235	0.00000	1.34376	No	1.88235
1277	GLOBAL	Cartesian	2.00000	0.00000	1.34376	No	2.00000

1278	GLOBAL	Cartesian	2.11765	0.00000	1.34376	No	2.11765
1279	GLOBAL	Cartesian	2.23529	0.00000	1.34376	No	2.23529
1280	GLOBAL	Cartesian	2.35294	0.00000	1.34376	No	2.35294
1281	GLOBAL	Cartesian	2.47059	0.00000	1.34376	No	2.47059
1282	GLOBAL	Cartesian	2.58824	0.00000	1.34376	No	2.58824
1283	GLOBAL	Cartesian	2.70588	0.00000	1.34376	No	2.70588
1284	GLOBAL	Cartesian	2.82353	0.00000	1.34376	No	2.82353
1285	GLOBAL	Cartesian	2.94118	0.00000	1.34376	No	2.94118
1286	GLOBAL	Cartesian	3.05882	0.00000	1.34376	No	3.05882
1287	GLOBAL	Cartesian	3.17647	0.00000	1.34376	No	3.17647
1288	GLOBAL	Cartesian	3.29412	0.00000	1.34376	No	3.29412
1289	GLOBAL	Cartesian	3.41176	0.00000	1.34376	No	3.41176
1290	GLOBAL	Cartesian	3.52941	0.00000	1.34376	No	3.52941
1291	GLOBAL	Cartesian	3.64706	0.00000	1.34376	No	3.64706
1292	GLOBAL	Cartesian	3.76471	0.00000	1.34376	No	3.76471
1293	GLOBAL	Cartesian	3.88235	0.00000	1.34376	No	3.88235
1294	GLOBAL	Cartesian	4.00000	0.00000	1.34376	No	4.00000
1295	GLOBAL	Cartesian	0.00000	0.00000	1.20939	No	0.00000
1296	GLOBAL	Cartesian	0.11765	0.00000	1.20939	No	0.11765
1297	GLOBAL	Cartesian	0.23529	0.00000	1.20939	No	0.23529
1298	GLOBAL	Cartesian	0.35294	0.00000	1.20939	No	0.35294
1299	GLOBAL	Cartesian	0.47059	0.00000	1.20939	No	0.47059
1300	GLOBAL	Cartesian	0.58824	0.00000	1.20939	No	0.58824
1301	GLOBAL	Cartesian	0.70588	0.00000	1.20939	No	0.70588
1302	GLOBAL	Cartesian	0.82353	0.00000	1.20939	No	0.82353
1303	GLOBAL	Cartesian	0.94118	0.00000	1.20939	No	0.94118
1304	GLOBAL	Cartesian	1.05882	0.00000	1.20939	No	1.05882
1305	GLOBAL	Cartesian	1.17647	0.00000	1.20939	No	1.17647
1306	GLOBAL	Cartesian	1.29412	0.00000	1.20939	No	1.29412
1307	GLOBAL	Cartesian	1.41176	0.00000	1.20939	No	1.41176
1308	GLOBAL	Cartesian	1.52941	0.00000	1.20939	No	1.52941
1309	GLOBAL	Cartesian	1.64706	0.00000	1.20939	No	1.64706
1310	GLOBAL	Cartesian	1.76471	0.00000	1.20939	No	1.76471
1311	GLOBAL	Cartesian	1.88235	0.00000	1.20939	No	1.88235
1312	GLOBAL	Cartesian	2.00000	0.00000	1.20939	No	2.00000
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1315	GLOBAL	Cartesian	2.35294	0.00000	1.20939	No	2.35294
1316	GLOBAL	Cartesian	2.47059	0.00000	1.20939	No	2.47059
1317	GLOBAL	Cartesian	2.58824	0.00000	1.20939	No	2.58824
1318	GLOBAL	Cartesian	2.70588	0.00000	1.20939	No	2.70588
1319	GLOBAL	Cartesian	2.82353	0.00000	1.20939	No	2.82353
1320	GLOBAL	Cartesian	2.94118	0.00000	1.20939	No	2.94118
1321	GLOBAL	Cartesian	3.05882	0.00000	1.20939	No	3.05882
1322	GLOBAL	Cartesian	3.17647	0.00000	1.20939	No	3.17647
1323	GLOBAL	Cartesian	3.29412	0.00000	1.20939	No	3.29412
1324	GLOBAL	Cartesian	3.41176	0.00000	1.20939	No	3.41176
1325	GLOBAL	Cartesian	3.52941	0.00000	1.20939	No	3.52941
1326	GLOBAL	Cartesian	3.64706	0.00000	1.20939	No	3.64706
1327	GLOBAL	Cartesian	3.76471	0.00000	1.20939	No	3.76471
1328	GLOBAL	Cartesian	3.88235	0.00000	1.20939	No	3.88235
1329	GLOBAL	Cartesian	4.00000	0.00000	1.20939	No	4.00000
1330	GLOBAL	Cartesian	0.00000	0.00000	1.07501	No	0.00000
1331	GLOBAL	Cartesian	0.11765	0.00000	1.07501	No	0.11765
1332	GLOBAL	Cartesian	0.23529	0.00000	1.07501	No	0.23529
1333	GLOBAL	Cartesian	0.35294	0.00000	1.07501	No	0.35294
1334	GLOBAL	Cartesian	0.47059	0.00000	1.07501	No	0.47059
1335	GLOBAL	Cartesian	0.58824	0.00000	1.07501	No	0.58824
1336	GLOBAL	Cartesian	0.70588	0.00000	1.07501	No	0.70588
1337	GLOBAL	Cartesian	0.82353	0.00000	1.07501	No	0.82353
1338	GLOBAL	Cartesian	0.94118	0.00000	1.07501	No	0.94118
1339	GLOBAL	Cartesian	1.05882	0.00000	1.07501	No	1.05882
1340	GLOBAL	Cartesian	1.17647	0.00000	1.07501	No	1.17647
1341	GLOBAL	Cartesian	1.29412	0.00000	1.07501	No	1.29412
1342	GLOBAL	Cartesian	1.41176	0.00000	1.07501	No	1.41176
1343	GLOBAL	Cartesian	1.52941	0.00000	1.07501	No	1.52941
1344	GLOBAL	Cartesian	1.64706	0.00000	1.07501	No	1.64706
1345	GLOBAL	Cartesian	1.76471	0.00000	1.07501	No	1.76471
1346	GLOBAL	Cartesian	1.88235	0.00000	1.07501	No	1.88235
1347	GLOBAL	Cartesian	2.00000	0.00000	1.07501	No	2.00000
1348	GLOBAL	Cartesian	2.11765	0.00000	1.07501	No	2.11765
1349	GLOBAL	Cartesian	2.23529	0.00000	1.07501	No	2.23529
1350	GLOBAL	Cartesian	2.35294	0.00000	1.07501	No	2.35294
1351	GLOBAL	Cartesian	2.47059	0.00000	1.07501	No	2.47059
1352	GLOBAL	Cartesian	2.58824	0.00000	1.07501	No	2.58824
1353	GLOBAL	Cartesian	2.70588	0.00000	1.07501	No	2.70588
1354	GLOBAL	Cartesian	2.82353	0.00000	1.07501	No	2.82353
1355	GLOBAL	Cartesian	2.94118	0.00000	1.07501	No	2.94118

1356	GLOBAL	Cartesian	3.05882	0.00000	1.07501	No	3.05882
1357	GLOBAL	Cartesian	3.17647	0.00000	1.07501	No	3.17647
1358	GLOBAL	Cartesian	3.29412	0.00000	1.07501	No	3.29412
1359	GLOBAL	Cartesian	3.41176	0.00000	1.07501	No	3.41176
1360	GLOBAL	Cartesian	3.52941	0.00000	1.07501	No	3.52941
1361	GLOBAL	Cartesian	3.64706	0.00000	1.07501	No	3.64706
1362	GLOBAL	Cartesian	3.76471	0.00000	1.07501	No	3.76471
1363	GLOBAL	Cartesian	3.88235	0.00000	1.07501	No	3.88235
1364	GLOBAL	Cartesian	4.00000	0.00000	1.07501	No	4.00000
1365	GLOBAL	Cartesian	0.00000	0.00000	0.94064	No	0.00000
1366	GLOBAL	Cartesian	0.11765	0.00000	0.94064	No	0.11765
1367	GLOBAL	Cartesian	0.23529	0.00000	0.94064	No	0.23529
1368	GLOBAL	Cartesian	0.35294	0.00000	0.94064	No	0.35294
1369	GLOBAL	Cartesian	0.47059	0.00000	0.94064	No	0.47059
1370	GLOBAL	Cartesian	0.58824	0.00000	0.94064	No	0.58824
1371	GLOBAL	Cartesian	0.70588	0.00000	0.94064	No	0.70588
1372	GLOBAL	Cartesian	0.82353	0.00000	0.94064	No	0.82353
1373	GLOBAL	Cartesian	0.94118	0.00000	0.94064	No	0.94118
1374	GLOBAL	Cartesian	1.05882	0.00000	0.94064	No	1.05882
1375	GLOBAL	Cartesian	1.17647	0.00000	0.94064	No	1.17647
1376	GLOBAL	Cartesian	1.29412	0.00000	0.94064	No	1.29412
1377	GLOBAL	Cartesian	1.41176	0.00000	0.94064	No	1.41176
1378	GLOBAL	Cartesian	1.52941	0.00000	0.94064	No	1.52941
1379	GLOBAL	Cartesian	1.64706	0.00000	0.94064	No	1.64706
1380	GLOBAL	Cartesian	1.76471	0.00000	0.94064	No	1.76471
1381	GLOBAL	Cartesian	1.88235	0.00000	0.94064	No	1.88235
1382	GLOBAL	Cartesian	2.00000	0.00000	0.94064	No	2.00000
1383	GLOBAL	Cartesian	2.11765	0.00000	0.94064	No	2.11765
1384	GLOBAL	Cartesian	2.23529	0.00000	0.94064	No	2.23529
1385	GLOBAL	Cartesian	2.35294	0.00000	0.94064	No	2.35294
1386	GLOBAL	Cartesian	2.47059	0.00000	0.94064	No	2.47059
1387	GLOBAL	Cartesian	2.58824	0.00000	0.94064	No	2.58824
1388	GLOBAL	Cartesian	2.70588	0.00000	0.94064	No	2.70588
1389	GLOBAL	Cartesian	2.82353	0.00000	0.94064	No	2.82353
1390	GLOBAL	Cartesian	2.94118	0.00000	0.94064	No	2.94118
1391	GLOBAL	Cartesian	3.05882	0.00000	0.94064	No	3.05882
1392	GLOBAL	Cartesian	3.17647	0.00000	0.94064	No	3.17647
1393	GLOBAL	Cartesian	3.29412	0.00000	0.94064	No	3.29412
1394	GLOBAL	Cartesian	3.41176	0.00000	0.94064	No	3.41176
1395	GLOBAL	Cartesian	3.52941	0.00000	0.94064	No	3.52941
1396	GLOBAL	Cartesian	3.64706	0.00000	0.94064	No	3.64706
1397	GLOBAL	Cartesian	3.76471	0.00000	0.94064	No	3.76471
1398	GLOBAL	Cartesian	3.88235	0.00000	0.94064	No	3.88235
1399	GLOBAL	Cartesian	4.00000	0.00000	0.94064	No	4.00000
1400	GLOBAL	Cartesian	0.00000	0.00000	0.80626	No	0.00000
1401	GLOBAL	Cartesian	0.11765	0.00000	0.80626	No	0.11765
1402	GLOBAL	Cartesian	0.23529	0.00000	0.80626	No	0.23529
1403	GLOBAL	Cartesian	0.35294	0.00000	0.80626	No	0.35294
1404	GLOBAL	Cartesian	0.47059	0.00000	0.80626	No	0.47059
1405	GLOBAL	Cartesian	0.58824	0.00000	0.80626	No	0.58824
1406	GLOBAL	Cartesian	0.70588	0.00000	0.80626	No	0.70588
1407	GLOBAL	Cartesian	0.82353	0.00000	0.80626	No	0.82353
1408	GLOBAL	Cartesian	0.94118	0.00000	0.80626	No	0.94118
1409	GLOBAL	Cartesian	1.05882	0.00000	0.80626	No	1.05882
1410	GLOBAL	Cartesian	1.17647	0.00000	0.80626	No	1.17647
1411	GLOBAL	Cartesian	1.29412	0.00000	0.80626	No	1.29412
1412	GLOBAL	Cartesian	1.41176	0.00000	0.80626	No	1.41176
1413	GLOBAL	Cartesian	1.52941	0.00000	0.80626	No	1.52941
1414	GLOBAL	Cartesian	1.64706	0.00000	0.80626	No	1.64706
1415	GLOBAL	Cartesian	1.76471	0.00000	0.80626	No	1.76471
1416	GLOBAL	Cartesian	1.88235	0.00000	0.80626	No	1.88235
1417	GLOBAL	Cartesian	2.00000	0.00000	0.80626	No	2.00000
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1419	GLOBAL	Cartesian	2.23529	0.00000	0.80626	No	2.23529
1420	GLOBAL	Cartesian	2.35294	0.00000	0.80626	No	2.35294
1421	GLOBAL	Cartesian	2.47059	0.00000	0.80626	No	2.47059
1422	GLOBAL	Cartesian	2.58824	0.00000	0.80626	No	2.58824
1423	GLOBAL	Cartesian	2.70588	0.00000	0.80626	No	2.70588
1424	GLOBAL	Cartesian	2.82353	0.00000	0.80626	No	2.82353
1425	GLOBAL	Cartesian	2.94118	0.00000	0.80626	No	2.94118
1426	GLOBAL	Cartesian	3.05882	0.00000	0.80626	No	3.05882
1427	GLOBAL	Cartesian	3.17647	0.00000	0.80626	No	3.17647
1428	GLOBAL	Cartesian	3.29412	0.00000	0.80626	No	3.29412
1429	GLOBAL	Cartesian	3.41176	0.00000	0.80626	No	3.41176
1430	GLOBAL	Cartesian	3.52941	0.00000	0.80626	No	3.52941
1431	GLOBAL	Cartesian	3.64706	0.00000	0.80626	No	3.64706
1432	GLOBAL	Cartesian	3.76471	0.00000	0.80626	No	3.76471
1433	GLOBAL	Cartesian	3.88235	0.00000	0.80626	No	3.88235

1434	GLOBAL	Cartesian	4.00000	0.00000	0.80626	No	4.00000
1435	GLOBAL	Cartesian	0.00000	0.00000	0.67188	No	0.00000
1436	GLOBAL	Cartesian	0.11765	0.00000	0.67188	No	0.11765
1437	GLOBAL	Cartesian	0.23529	0.00000	0.67188	No	0.23529
1438	GLOBAL	Cartesian	0.35294	0.00000	0.67188	No	0.35294
1439	GLOBAL	Cartesian	0.47059	0.00000	0.67188	No	0.47059
1440	GLOBAL	Cartesian	0.58824	0.00000	0.67188	No	0.58824
1441	GLOBAL	Cartesian	0.70588	0.00000	0.67188	No	0.70588
1442	GLOBAL	Cartesian	0.82353	0.00000	0.67188	No	0.82353
1443	GLOBAL	Cartesian	0.94118	0.00000	0.67188	No	0.94118
1444	GLOBAL	Cartesian	1.05882	0.00000	0.67188	No	1.05882
1445	GLOBAL	Cartesian	1.17647	0.00000	0.67188	No	1.17647
1446	GLOBAL	Cartesian	1.29412	0.00000	0.67188	No	1.29412
1447	GLOBAL	Cartesian	1.41176	0.00000	0.67188	No	1.41176
1448	GLOBAL	Cartesian	1.52941	0.00000	0.67188	No	1.52941
1449	GLOBAL	Cartesian	1.64706	0.00000	0.67188	No	1.64706
1450	GLOBAL	Cartesian	1.76471	0.00000	0.67188	No	1.76471
1451	GLOBAL	Cartesian	1.88235	0.00000	0.67188	No	1.88235
1452	GLOBAL	Cartesian	2.00000	0.00000	0.67188	No	2.00000
1453	GLOBAL	Cartesian	2.11765	0.00000	0.67188	No	2.11765
1454	GLOBAL	Cartesian	2.23529	0.00000	0.67188	No	2.23529
1455	GLOBAL	Cartesian	2.35294	0.00000	0.67188	No	2.35294
1456	GLOBAL	Cartesian	2.47059	0.00000	0.67188	No	2.47059
1457	GLOBAL	Cartesian	2.58824	0.00000	0.67188	No	2.58824
1458	GLOBAL	Cartesian	2.70588	0.00000	0.67188	No	2.70588
1459	GLOBAL	Cartesian	2.82353	0.00000	0.67188	No	2.82353
1460	GLOBAL	Cartesian	2.94118	0.00000	0.67188	No	2.94118
1461	GLOBAL	Cartesian	3.05882	0.00000	0.67188	No	3.05882
1462	GLOBAL	Cartesian	3.17647	0.00000	0.67188	No	3.17647
1463	GLOBAL	Cartesian	3.29412	0.00000	0.67188	No	3.29412
1464	GLOBAL	Cartesian	3.41176	0.00000	0.67188	No	3.41176
1465	GLOBAL	Cartesian	3.52941	0.00000	0.67188	No	3.52941
1466	GLOBAL	Cartesian	3.64706	0.00000	0.67188	No	3.64706
1467	GLOBAL	Cartesian	3.76471	0.00000	0.67188	No	3.76471
1468	GLOBAL	Cartesian	3.88235	0.00000	0.67188	No	3.88235
1469	GLOBAL	Cartesian	4.00000	0.00000	0.67188	No	4.00000
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1472	GLOBAL	Cartesian	0.23529	0.00000	0.53751	No	0.23529
1473	GLOBAL	Cartesian	0.35294	0.00000	0.53751	No	0.35294
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1481	GLOBAL	Cartesian	1.29412	0.00000	0.53751	No	1.29412
1482	GLOBAL	Cartesian	1.41176	0.00000	0.53751	No	1.41176
1483	GLOBAL	Cartesian	1.52941	0.00000	0.53751	No	1.52941
1484	GLOBAL	Cartesian	1.64706	0.00000	0.53751	No	1.64706
1485	GLOBAL	Cartesian	1.76471	0.00000	0.53751	No	1.76471
1486	GLOBAL	Cartesian	1.88235	0.00000	0.53751	No	1.88235
1487	GLOBAL	Cartesian	2.00000	0.00000	0.53751	No	2.00000
1488	GLOBAL	Cartesian	2.11765	0.00000	0.53751	No	2.11765
1489	GLOBAL	Cartesian	2.23529	0.00000	0.53751	No	2.23529
1490	GLOBAL	Cartesian	2.35294	0.00000	0.53751	No	2.35294
1491	GLOBAL	Cartesian	2.47059	0.00000	0.53751	No	2.47059
1492	GLOBAL	Cartesian	2.58824	0.00000	0.53751	No	2.58824
1493	GLOBAL	Cartesian	2.70588	0.00000	0.53751	No	2.70588
1494	GLOBAL	Cartesian	2.82353	0.00000	0.53751	No	2.82353
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1497	GLOBAL	Cartesian	3.17647	0.00000	0.53751	No	3.17647
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1499	GLOBAL	Cartesian	3.41176	0.00000	0.53751	No	3.41176
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1501	GLOBAL	Cartesian	3.64706	0.00000	0.53751	No	3.64706
1502	GLOBAL	Cartesian	3.76471	0.00000	0.53751	No	3.76471
1503	GLOBAL	Cartesian	3.88235	0.00000	0.53751	No	3.88235
1504	GLOBAL	Cartesian	4.00000	0.00000	0.53751	No	4.00000
1505	GLOBAL	Cartesian	0.00000	0.00000	0.40313	No	0.00000
1506	GLOBAL	Cartesian	0.11765	0.00000	0.40313	No	0.11765
1507	GLOBAL	Cartesian	0.23529	0.00000	0.40313	No	0.23529
1508	GLOBAL	Cartesian	0.35294	0.00000	0.40313	No	0.35294
1509	GLOBAL	Cartesian	0.47059	0.00000	0.40313	No	0.47059
1510	GLOBAL	Cartesian	0.58824	0.00000	0.40313	No	0.58824
1511	GLOBAL	Cartesian	0.70588	0.00000	0.40313	No	0.70588

1512	GLOBAL	Cartesian	0.82353	0.00000	0.40313	No	0.82353
1513	GLOBAL	Cartesian	0.94118	0.00000	0.40313	No	0.94118
1514	GLOBAL	Cartesian	1.05882	0.00000	0.40313	No	1.05882
1515	GLOBAL	Cartesian	1.17647	0.00000	0.40313	No	1.17647
1516	GLOBAL	Cartesian	1.29412	0.00000	0.40313	No	1.29412
1517	GLOBAL	Cartesian	1.41176	0.00000	0.40313	No	1.41176
1518	GLOBAL	Cartesian	1.52941	0.00000	0.40313	No	1.52941
1519	GLOBAL	Cartesian	1.64706	0.00000	0.40313	No	1.64706
1520	GLOBAL	Cartesian	1.76471	0.00000	0.40313	No	1.76471
1521	GLOBAL	Cartesian	1.88235	0.00000	0.40313	No	1.88235
1522	GLOBAL	Cartesian	2.00000	0.00000	0.40313	No	2.00000
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1524	GLOBAL	Cartesian	2.23529	0.00000	0.40313	No	2.23529
1525	GLOBAL	Cartesian	2.35294	0.00000	0.40313	No	2.35294
1526	GLOBAL	Cartesian	2.47059	0.00000	0.40313	No	2.47059
1527	GLOBAL	Cartesian	2.58824	0.00000	0.40313	No	2.58824
1528	GLOBAL	Cartesian	2.70588	0.00000	0.40313	No	2.70588
1529	GLOBAL	Cartesian	2.82353	0.00000	0.40313	No	2.82353
1530	GLOBAL	Cartesian	2.94118	0.00000	0.40313	No	2.94118
1531	GLOBAL	Cartesian	3.05882	0.00000	0.40313	No	3.05882
1532	GLOBAL	Cartesian	3.17647	0.00000	0.40313	No	3.17647
1533	GLOBAL	Cartesian	3.29412	0.00000	0.40313	No	3.29412
1534	GLOBAL	Cartesian	3.41176	0.00000	0.40313	No	3.41176
1535	GLOBAL	Cartesian	3.52941	0.00000	0.40313	No	3.52941
1536	GLOBAL	Cartesian	3.64706	0.00000	0.40313	No	3.64706
1537	GLOBAL	Cartesian	3.76471	0.00000	0.40313	No	3.76471
1538	GLOBAL	Cartesian	3.88235	0.00000	0.40313	No	3.88235
1539	GLOBAL	Cartesian	4.00000	0.00000	0.40313	No	4.00000
1540	GLOBAL	Cartesian	0.00000	0.00000	0.26875	No	0.00000
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1542	GLOBAL	Cartesian	0.23529	0.00000	0.26875	No	0.23529
1543	GLOBAL	Cartesian	0.35294	0.00000	0.26875	No	0.35294
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1549	GLOBAL	Cartesian	1.05882	0.00000	0.26875	No	1.05882
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1552	GLOBAL	Cartesian	1.41176	0.00000	0.26875	No	1.41176
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1554	GLOBAL	Cartesian	1.64706	0.00000	0.26875	No	1.64706
1555	GLOBAL	Cartesian	1.76471	0.00000	0.26875	No	1.76471
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1557	GLOBAL	Cartesian	2.00000	0.00000	0.26875	No	2.00000
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1566	GLOBAL	Cartesian	3.05882	0.00000	0.26875	No	3.05882
1567	GLOBAL	Cartesian	3.17647	0.00000	0.26875	No	3.17647
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1569	GLOBAL	Cartesian	3.41176	0.00000	0.26875	No	3.41176
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1572	GLOBAL	Cartesian	3.76471	0.00000	0.26875	No	3.76471
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1574	GLOBAL	Cartesian	4.00000	0.00000	0.26875	No	4.00000
1575	GLOBAL	Cartesian	0.00000	0.00000	0.13438	No	0.00000
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1577	GLOBAL	Cartesian	0.23529	0.00000	0.13438	No	0.23529
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1584	GLOBAL	Cartesian	1.05882	0.00000	0.13438	No	1.05882
1585	GLOBAL	Cartesian	1.17647	0.00000	0.13438	No	1.17647
1586	GLOBAL	Cartesian	1.29412	0.00000	0.13438	No	1.29412
1587	GLOBAL	Cartesian	1.41176	0.00000	0.13438	No	1.41176
1588	GLOBAL	Cartesian	1.52941	0.00000	0.13438	No	1.52941
1589	GLOBAL	Cartesian	1.64706	0.00000	0.13438	No	1.64706

1590	GLOBAL	Cartesian	1.76471	0.00000	0.13438	No	1.76471
1591	GLOBAL	Cartesian	1.88235	0.00000	0.13438	No	1.88235
1592	GLOBAL	Cartesian	2.00000	0.00000	0.13438	No	2.00000
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1594	GLOBAL	Cartesian	2.23529	0.00000	0.13438	No	2.23529
1595	GLOBAL	Cartesian	2.35294	0.00000	0.13438	No	2.35294
1596	GLOBAL	Cartesian	2.47059	0.00000	0.13438	No	2.47059
1597	GLOBAL	Cartesian	2.58824	0.00000	0.13438	No	2.58824
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1599	GLOBAL	Cartesian	2.82353	0.00000	0.13438	No	2.82353
1600	GLOBAL	Cartesian	2.94118	0.00000	0.13438	No	2.94118
1601	GLOBAL	Cartesian	3.05882	0.00000	0.13438	No	3.05882
1602	GLOBAL	Cartesian	3.17647	0.00000	0.13438	No	3.17647
1603	GLOBAL	Cartesian	3.29412	0.00000	0.13438	No	3.29412
1604	GLOBAL	Cartesian	3.41176	0.00000	0.13438	No	3.41176
1605	GLOBAL	Cartesian	3.52941	0.00000	0.13438	No	3.52941
1606	GLOBAL	Cartesian	3.64706	0.00000	0.13438	No	3.64706
1607	GLOBAL	Cartesian	3.76471	0.00000	0.13438	No	3.76471
1608	GLOBAL	Cartesian	3.88235	0.00000	0.13438	No	3.88235
1609	GLOBAL	Cartesian	4.00000	0.00000	0.13438	No	4.00000
1610	GLOBAL	Cartesian	0.11765	0.00000	0.00000	No	0.11765
1611	GLOBAL	Cartesian	0.23529	0.00000	0.00000	No	0.23529
1612	GLOBAL	Cartesian	0.35294	0.00000	0.00000	No	0.35294
1613	GLOBAL	Cartesian	0.47059	0.00000	0.00000	No	0.47059
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1616	GLOBAL	Cartesian	0.82353	0.00000	0.00000	No	0.82353
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1618	GLOBAL	Cartesian	1.05882	0.00000	0.00000	No	1.05882
1619	GLOBAL	Cartesian	1.17647	0.00000	0.00000	No	1.17647
1620	GLOBAL	Cartesian	1.29412	0.00000	0.00000	No	1.29412
1621	GLOBAL	Cartesian	1.41176	0.00000	0.00000	No	1.41176
1622	GLOBAL	Cartesian	1.52941	0.00000	0.00000	No	1.52941
1623	GLOBAL	Cartesian	1.64706	0.00000	0.00000	No	1.64706
1624	GLOBAL	Cartesian	1.76471	0.00000	0.00000	No	1.76471
1625	GLOBAL	Cartesian	1.88235	0.00000	0.00000	No	1.88235
1626	GLOBAL	Cartesian	2.00000	0.00000	0.00000	No	2.00000
1627	GLOBAL	Cartesian	2.11765	0.00000	0.00000	No	2.11765
1628	GLOBAL	Cartesian	2.23529	0.00000	0.00000	No	2.23529
1629	GLOBAL	Cartesian	2.35294	0.00000	0.00000	No	2.35294
1630	GLOBAL	Cartesian	2.47059	0.00000	0.00000	No	2.47059
1631	GLOBAL	Cartesian	2.58824	0.00000	0.00000	No	2.58824
1632	GLOBAL	Cartesian	2.70588	0.00000	0.00000	No	2.70588
1633	GLOBAL	Cartesian	2.82353	0.00000	0.00000	No	2.82353
1634	GLOBAL	Cartesian	2.94118	0.00000	0.00000	No	2.94118
1635	GLOBAL	Cartesian	3.05882	0.00000	0.00000	No	3.05882
1636	GLOBAL	Cartesian	3.17647	0.00000	0.00000	No	3.17647
1637	GLOBAL	Cartesian	3.29412	0.00000	0.00000	No	3.29412
1638	GLOBAL	Cartesian	3.41176	0.00000	0.00000	No	3.41176
1639	GLOBAL	Cartesian	3.52941	0.00000	0.00000	No	3.52941
1640	GLOBAL	Cartesian	3.64706	0.00000	0.00000	No	3.64706
1641	GLOBAL	Cartesian	3.76471	0.00000	0.00000	No	3.76471
1642	GLOBAL	Cartesian	3.88235	0.00000	0.00000	No	3.88235

Table: Joint Coordinates, Part 2 of 2

Joint	GlobalY	GlobalZ	GUID
	m	m	
1	0.00000	0.00000	
2	0.00000	0.00000	
18	0.00000	2.30000	
19	0.00000	2.15002	
20	0.00000	2.01565	
21	0.00000	1.88127	
22	0.00000	1.74689	
23	0.00000	1.61252	
24	0.00000	1.47814	
25	0.00000	1.34376	
26	0.00000	1.20939	
27	0.00000	1.07501	
28	0.00000	0.94064	
29	0.00000	0.80626	
30	0.00000	0.67188	
31	0.00000	0.53751	
32	0.00000	0.40313	
33	0.00000	0.26875	

34	0.00000	0.13438
193	0.00000	2.30000
194	0.00000	2.30000
195	0.00000	2.15002
196	0.00000	2.15002
197	0.00000	2.01565
198	0.00000	2.01565
199	0.00000	1.88127
200	0.00000	1.88127
201	0.00000	1.74689
202	0.00000	1.74689
203	0.00000	1.61252
204	0.00000	1.61252
205	0.00000	1.47814
206	0.00000	1.47814
207	0.00000	1.34376
208	0.00000	1.34376
209	0.00000	1.20939
210	0.00000	1.20939
211	0.00000	1.07501
212	0.00000	1.07501
213	0.00000	0.94064
214	0.00000	0.94064
215	0.00000	0.80626
216	0.00000	0.80626
217	0.00000	0.67188
218	0.00000	0.67188
219	0.00000	0.53751
220	0.00000	0.53751
221	0.00000	0.40313
222	0.00000	0.40313
223	0.00000	0.26875
224	0.00000	0.26875
225	0.00000	0.13438
226	0.00000	0.13438
227	0.00000	0.00000
228	0.00000	0.00000
443	0.00000	0.00000
1015	0.00000	2.30000
1016	0.00000	2.30000
1017	0.00000	2.30000
1018	0.00000	2.30000
1019	0.00000	2.30000
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1021	0.00000	2.30000
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1638	0.00000	0.00000
1639	0.00000	0.00000
1640	0.00000	0.00000
1641	0.00000	0.00000
1642	0.00000	0.00000

Table: Joint Pattern Assignments

Joint	Pattern	Value
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1015	SISMICA	19.439063
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1016	SISMICA	18.867325
1017	STATICA	0.004004
1017	SISMICA	18.295588
1018	STATICA	0.004004
1018	SISMICA	17.723851
1019	STATICA	0.004004
1019	SISMICA	17.152114
1020	STATICA	0.004004
1020	SISMICA	16.580377
1021	STATICA	0.004004
1021	SISMICA	16.008640
1022	STATICA	0.004004
1022	SISMICA	15.436903
1023	STATICA	0.004004
1023	SISMICA	14.865165
1024	STATICA	0.004004
1024	SISMICA	14.293428
1025	STATICA	0.004004
1025	SISMICA	13.721691
1026	STATICA	0.004004
1026	SISMICA	13.149954
1027	STATICA	0.004004
1027	SISMICA	12.578217

1028	STATICA	0.004004
1028	SISMICA	12.006480
1029	STATICA	0.004004
1029	SISMICA	11.434743
1030	STATICA	0.004004
1030	SISMICA	10.863006
1031	STATICA	0.004004
1031	SISMICA	10.291268
1032	STATICA	0.004004
1032	SISMICA	9.719531
1033	STATICA	0.004004
1033	SISMICA	9.147794
1034	STATICA	0.004004
1034	SISMICA	8.576057
1035	STATICA	0.004004
1035	SISMICA	8.004320
1036	STATICA	0.004004
1036	SISMICA	7.432583
1037	STATICA	0.004004
1037	SISMICA	6.860846
1038	STATICA	0.004004
1038	SISMICA	6.289108
1039	STATICA	0.004004
1039	SISMICA	5.717371
1040	STATICA	0.004004
1040	SISMICA	5.145634
1041	STATICA	0.004004
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1042	STATICA	0.004004
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1045	SISMICA	2.286949
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1046	SISMICA	1.715211
1047	STATICA	0.004004
1047	SISMICA	1.143474
1048	STATICA	0.004004
1048	SISMICA	0.571737
1049	STATICA	0.004004
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1099	SISMICA	12.959375
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1100	SISMICA	12.311406
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1101	SISMICA	11.663438
1102	STATICA	2.426691
1102	SISMICA	11.015469
1103	STATICA	2.426691
1103	SISMICA	10.367500
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1124	SISMICA	20.582537
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1125	SISMICA	19.896452
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1594	STATICA	18.455113
1594	SISMICA	17.723851
1595	STATICA	18.455113
1595	SISMICA	16.542261
1596	STATICA	18.455113
1596	SISMICA	15.360671
1597	STATICA	18.455113
1597	SISMICA	14.179081
1598	STATICA	18.455113
1598	SISMICA	12.997491
1599	STATICA	18.455113
1599	SISMICA	11.815901
1600	STATICA	18.455113
1600	SISMICA	10.634311
1601	STATICA	18.455113
1601	SISMICA	9.452721
1602	STATICA	18.455113
1602	SISMICA	8.271131
1603	STATICA	18.455113
1603	SISMICA	7.089540
1604	STATICA	18.455113
1604	SISMICA	5.907950
1605	STATICA	18.455113
1605	SISMICA	4.726360
1606	STATICA	18.455113
1606	SISMICA	3.544770
1607	STATICA	18.455113
1607	SISMICA	2.363180
1608	STATICA	18.455113
1608	SISMICA	1.181590
1609	STATICA	18.455113
1610	STATICA	19.600000
1610	SISMICA	40.250294
1611	STATICA	19.600000
1611	SISMICA	39.030588
1612	STATICA	19.600000
1612	SISMICA	37.810882
1613	STATICA	19.600000
1613	SISMICA	36.591176
1614	STATICA	19.600000
1614	SISMICA	35.371471
1615	STATICA	19.600000
1615	SISMICA	34.151765
1616	STATICA	19.600000
1616	SISMICA	32.932059
1617	STATICA	19.600000
1617	SISMICA	31.712353
1618	STATICA	19.600000
1618	SISMICA	30.492647
1619	STATICA	19.600000
1619	SISMICA	29.272941
1620	STATICA	19.600000
1620	SISMICA	28.053235
1621	STATICA	19.600000

1621	SISMICA	26.833529
1622	STATICA	19.600000
1622	SISMICA	25.613824
1623	STATICA	19.600000
1623	SISMICA	24.394118
1624	STATICA	19.600000
1624	SISMICA	23.174412
1625	STATICA	19.600000
1625	SISMICA	21.954706
1626	STATICA	19.600000
1626	SISMICA	20.735000
1627	STATICA	19.600000
1627	SISMICA	19.515294
1628	STATICA	19.600000
1628	SISMICA	18.295588
1629	STATICA	19.600000
1629	SISMICA	17.075882
1630	STATICA	19.600000
1630	SISMICA	15.856176
1631	STATICA	19.600000
1631	SISMICA	14.636471
1632	STATICA	19.600000
1632	SISMICA	13.416765
1633	STATICA	19.600000
1633	SISMICA	12.197059
1634	STATICA	19.600000
1634	SISMICA	10.977353
1635	STATICA	19.600000
1635	SISMICA	9.757647
1636	STATICA	19.600000
1636	SISMICA	8.537941
1637	STATICA	19.600000
1637	SISMICA	7.318235
1638	STATICA	19.600000
1638	SISMICA	6.098529
1639	STATICA	19.600000
1639	SISMICA	4.878824
1640	STATICA	19.600000
1640	SISMICA	3.659118
1641	STATICA	19.600000
1641	SISMICA	2.439412
1642	STATICA	19.600000
1642	SISMICA	1.219706
2	STATICA	19.600000
18	STATICA	0.004004
19	STATICA	1.281803
20	STATICA	2.426691
21	STATICA	3.571578
22	STATICA	4.716465
23	STATICA	5.861353
24	STATICA	7.006240
25	STATICA	8.151127
26	STATICA	9.296014
27	STATICA	10.440902
28	STATICA	11.585789
29	STATICA	12.730676
30	STATICA	13.875564
31	STATICA	15.020451
32	STATICA	16.165338
33	STATICA	17.310225
34	STATICA	18.455113
193	STATICA	0.004004
194	STATICA	0.004004
195	STATICA	1.281803
196	STATICA	1.281803
197	STATICA	2.426691
198	STATICA	2.426691
199	STATICA	3.571578
200	STATICA	3.571578
201	STATICA	4.716465
202	STATICA	4.716465
203	STATICA	5.861353
204	STATICA	5.861353
205	STATICA	7.006240
206	STATICA	7.006240
207	STATICA	8.151127
208	STATICA	8.151127
209	STATICA	9.296014

210	STATICA	9.296014
211	STATICA	10.440902
212	STATICA	10.440902
213	STATICA	11.585789
214	STATICA	11.585789
215	STATICA	12.730676
216	STATICA	12.730676
217	STATICA	13.875564
218	STATICA	13.875564
219	STATICA	15.020451
220	STATICA	15.020451
221	STATICA	16.165338
222	STATICA	16.165338
223	STATICA	17.310225
224	STATICA	17.310225
225	STATICA	18.455113
226	STATICA	18.455113
227	STATICA	19.600000
228	STATICA	19.600000

Table: Joint Pattern Definitions

Pattern
DEFAULT
STATICA
SISMICA

Table: Joint Restraint Assignments

Joint	U1	U2	U3	R1	R2	R3
1	Yes	Yes	Yes	Yes	Yes	Yes
2	Yes	Yes	Yes	Yes	Yes	Yes
18	Yes	Yes	Yes	Yes	Yes	Yes
19	Yes	Yes	Yes	Yes	Yes	Yes
20	Yes	Yes	Yes	Yes	Yes	Yes
21	Yes	Yes	Yes	Yes	Yes	Yes
22	Yes	Yes	Yes	Yes	Yes	Yes
23	Yes	Yes	Yes	Yes	Yes	Yes
24	Yes	Yes	Yes	Yes	Yes	Yes
25	Yes	Yes	Yes	Yes	Yes	Yes
26	Yes	Yes	Yes	Yes	Yes	Yes
27	Yes	Yes	Yes	Yes	Yes	Yes
28	Yes	Yes	Yes	Yes	Yes	Yes
29	Yes	Yes	Yes	Yes	Yes	Yes
30	Yes	Yes	Yes	Yes	Yes	Yes
31	Yes	Yes	Yes	Yes	Yes	Yes
32	Yes	Yes	Yes	Yes	Yes	Yes
33	Yes	Yes	Yes	Yes	Yes	Yes
34	Yes	Yes	Yes	Yes	Yes	Yes
227	Yes	Yes	Yes	Yes	Yes	Yes
228	Yes	Yes	Yes	Yes	Yes	Yes
443	Yes	Yes	Yes	Yes	Yes	Yes
1015	Yes	Yes	Yes	Yes	Yes	Yes
1050	Yes	Yes	Yes	Yes	Yes	Yes
1085	Yes	Yes	Yes	Yes	Yes	Yes
1120	Yes	Yes	Yes	Yes	Yes	Yes
1155	Yes	Yes	Yes	Yes	Yes	Yes
1190	Yes	Yes	Yes	Yes	Yes	Yes
1225	Yes	Yes	Yes	Yes	Yes	Yes
1260	Yes	Yes	Yes	Yes	Yes	Yes
1295	Yes	Yes	Yes	Yes	Yes	Yes
1330	Yes	Yes	Yes	Yes	Yes	Yes
1365	Yes	Yes	Yes	Yes	Yes	Yes
1400	Yes	Yes	Yes	Yes	Yes	Yes
1435	Yes	Yes	Yes	Yes	Yes	Yes
1470	Yes	Yes	Yes	Yes	Yes	Yes
1505	Yes	Yes	Yes	Yes	Yes	Yes
1540	Yes	Yes	Yes	Yes	Yes	Yes
1575	Yes	Yes	Yes	Yes	Yes	Yes
1610	Yes	Yes	Yes	Yes	Yes	Yes
1611	Yes	Yes	Yes	Yes	Yes	Yes
1612	Yes	Yes	Yes	Yes	Yes	Yes

1613	Yes	Yes	Yes	Yes	Yes	Yes
1614	Yes	Yes	Yes	Yes	Yes	Yes
1615	Yes	Yes	Yes	Yes	Yes	Yes
1616	Yes	Yes	Yes	Yes	Yes	Yes
1617	Yes	Yes	Yes	Yes	Yes	Yes
1618	Yes	Yes	Yes	Yes	Yes	Yes
1619	Yes	Yes	Yes	Yes	Yes	Yes
1620	Yes	Yes	Yes	Yes	Yes	Yes
1621	Yes	Yes	Yes	Yes	Yes	Yes
1622	Yes	Yes	Yes	Yes	Yes	Yes
1623	Yes	Yes	Yes	Yes	Yes	Yes
1624	Yes	Yes	Yes	Yes	Yes	Yes
1625	Yes	Yes	Yes	Yes	Yes	Yes
1626	Yes	Yes	Yes	Yes	Yes	Yes
1627	Yes	Yes	Yes	Yes	Yes	Yes
1628	Yes	Yes	Yes	Yes	Yes	Yes
1629	Yes	Yes	Yes	Yes	Yes	Yes
1630	Yes	Yes	Yes	Yes	Yes	Yes
1631	Yes	Yes	Yes	Yes	Yes	Yes
1632	Yes	Yes	Yes	Yes	Yes	Yes
1633	Yes	Yes	Yes	Yes	Yes	Yes
1634	Yes	Yes	Yes	Yes	Yes	Yes
1635	Yes	Yes	Yes	Yes	Yes	Yes
1636	Yes	Yes	Yes	Yes	Yes	Yes
1637	Yes	Yes	Yes	Yes	Yes	Yes
1638	Yes	Yes	Yes	Yes	Yes	Yes
1639	Yes	Yes	Yes	Yes	Yes	Yes
1640	Yes	Yes	Yes	Yes	Yes	Yes
1641	Yes	Yes	Yes	Yes	Yes	Yes
1642	Yes	Yes	Yes	Yes	Yes	Yes

Table: Load Case Definitions, Part 1 of 2

Case	Type	InitialCond	ModalCase	BaseCase	DesTypeOpt	DesignType	AutoType
STATICA	LinStatic	Zero			Prog Det	DEAD	None
SISMICA	LinStatic	Zero			Prog Det	DEAD	None
LOAD	LinStatic	Zero			Prog Det	DEAD	None
SOVRAC	LinStatic	Zero			Prog Det	DEAD	None

Table: Load Case Definitions, Part 2 of 2

Case	RunCase	CaseStatus	GUID	Notes
STATICA	Yes	Finished		
SISMICA	Yes	Finished		
LOAD	Yes	Finished		
SOVRAC	Yes	Finished		

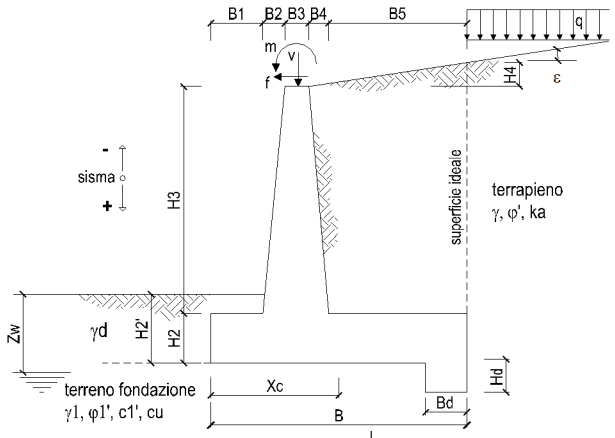
Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad	GUID	Notes
STATICA	DEAD	0.000000			
SISMICA	DEAD	0.000000			
LOAD	DEAD	1.000000			
SOVRAC	DEAD	0.000000			

Table: Material Properties 03b - Concrete Data

Material	Fc KN/m2	LtWtConc	SSCurveOpt	SSHysType	FAngle Degrees	DAngle Degrees
CONC	27579.00		No User Defined	Kinematic	0.000	0.000

ALLEGATO 2 : TABULATI DI CALCOLO DEL MURO DI SOSTEGNO SU FONDAZIONE DIRETTA



OPERA Hmuro = 1.90 m

DATI DI PROGETTO:

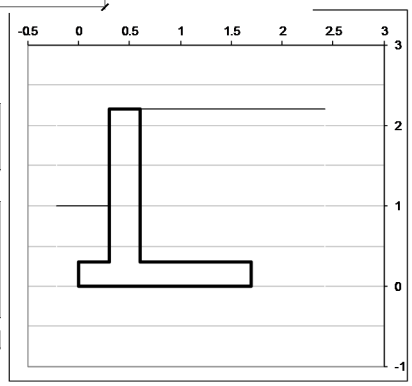
Geometria del Muro

Elevazione	H3 =	1.90	(m)
Aggetto Valle	B2 =	0.00	(m)
Spessore del Muro in Testa	B3 =	0.30	(m)
Aggetto monte	B4 =	0.00	(m)

Geometria della Fondazione

Larghezza Fondazione	B =	1.70	(m)
Spessore Fondazione	H2 =	0.30	(m)
Suola Lato Valle	B1 =	0.30	(m)
Suola Lato Monte	B5 =	1.10	(m)
Altezza dente	Hd =	0.00	(m)
Larghezza dente	Bd =	0.00	(m)
Mezzena Sezione	Xc =	0.85	(m)

Peso Specifico del Calcestruzzo	γcls =	25.00	(kN/m³)



Dati Geotecnici

Dati Terrapieno	Angolo di attrito del terrapieno	φ' =	35.00	(°)		
	Peso Unità di Volume del terrapieno	γ' =	20.00	(kN/m³)		
	Angolo di Inclinazione Piano di Campagna	ε =	0.00	(°)		
	Angolo di attrito terreno-paramento	δ_{muro} =	17.50	(°)		
	Angolo di attrito terreno-superficie ideale	$\delta_{sup\ id}$ =	17.50	(°)		
Dati Terreno Fondazione	Condizioni	drenate	Non Drenate			
	Coesione Terreno di Fondazione	c1' =	10.00	(kPa)		
	Angolo di attrito del Terreno di Fondazione	φ1' =	24.50	(°)		
	Peso Unità di Volume del Terreno di Fondazione	γ1 =	19.00	(kN/m³)		
	Peso Unità di Volume del Rinterro della Fondazione	γd =	20.00	(kN/m³)		
	Profondità Piano di Posa della Fondazione	H2' =	1.00	(m)		
	Profondità Falda	Zw =	100.00	(m)		
	Profondità "Significativa" (n.b.: consigliata H = 2*B)	Hs =	3.40	(m)		
	Modulo di deformazione	E =	30000	(kN/m²)		
Dati Sismici	Accelerazione sismica	a_g/g =	0.275	(-)		
	Coefficiente Categoria di Suolo	S =	1.25	(-)		
	il muro è libero di ruotare al piede? (si/no)	si	no	il muro ammette spostamenti? (si/no)	si	no r = 2
	coefficiente sismico orizzontale	kh =	0.1719	(-)		
	coefficiente sismico verticale	kv =	0.0859	(-)		
Coefficienti di Spinta	Coeff. di Spinta Attiva sulla superficie ideale	ka =	0.25	(-)	0.246	Valori di Normativa
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale sisma +	kas+ =	0.35	(-)	0.347	
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale sisma -	kas- =	0.37	(-)	0.370	
	Coeff. Di Spinta Passiva in Fondazione	kp =	2.42	(-)	2.417	
	Coeff. Di Spinta Passiva Sismica in Fondazione sisma +	kps+ =	2.15	(-)	2.152	
	Coeff. Di Spinta Passiva Sismica in Fondazione sisma -	kps- =	2.10	(-)	2.097	

Carichi Agenti

Condizioni Statiche	Sovraccarico Accidentale in condizioni statiche	q	=	28.00	(kN/m²)
	Forza Orizzontale in Testa in condizioni statiche	f	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni statiche	v	=	0.00	(kN/m)
	Momento in Testa in condizioni statiche	m	=	0.00	(kNm/m)
Condizioni Sismiche	Sovraccarico Accidentale in condizioni sismiche	qs	=	8.00	(kN/m²)
	Forza Orizzontale in Testa in condizioni sismiche	fs	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni sismiche	vs	=	0.00	(kN/m)
	Momento in Testa in condizioni sismiche	ms	=	0.00	(kNm/m)

coefficienti parziali

		caso	azioni		proprietà del terreno		
			permanenti	temporane e variabili	tan φ'	c'	c_u
			sfavorevoli	sfavorevoli			
SLU	◉	caso A1+M1	1.40	1.50	1.00	1.00	1.00
	○	caso A2+M2	1.00	1.30	1.25	1.25	1.40
SLD	○	–	1.00	1.00	1.25	1.25	1.40
def.	○	–	1.00	1.00	1.00	1.00	1.00

Dati Geotecnici (usati per verifiche di stabilità e SLU)

Dati Terrapieno	Angolo di attrito del terrapieno	φ'	=	35.00	(°)		
	Peso Unità di Volume del terrapieno	γ'	=	28.00	(kN/m³)		
	Angolo di Inclinazione Piano di Campagna	ε	=	0.00	(°)		
	Angolo di attrito terreno-paramento	δ_{muro}	=	17.50	(°)		
	Angolo di attrito terreno-superficie ideale	$\delta_{sup\ id}$	=	17.50	(°)		
Dati Terreno Fondazione	Coesione Terreno di Fondazione	c1'	=	10.00	(kN/m²)		
	Angolo di attrito del Terreno di Fondazione	φ_1'	=	24.50	(°)		
	Peso Unità di Volume del Terreno di Fondazione	γ_1	=	19.00	(kN/m³)		
	Peso Unità di Volume del Rinterro della Fondazione	γd	=	20.00	(kN/m³)		
	Profondità Piano di Posa della Fondazione	H2'	=	1.00	(m)		
	Profondità Falda	Zw	=	100.00	(m)		
Coefficienti di Spinta	Coeff. di Spinta Attiva sulla superficie ideale	ka	=	0.25	(-)	0.246	Valori di Normativa
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale	kas+	=	0.35	(-)	0.347	
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale	kas-	=	0.37	(-)	0.370	
	Coeff. Di Spinta Passiva in Fondazione	kp	=	2.42	(-)	2.417	
	Coeff. Di Spinta Passiva Sismica in Fondazione	kps+	=	2.15	(-)	2.152	
	Coeff. Di Spinta Passiva Sismica in Fondazione	kps-	=	2.10	(-)	2.097	

Carichi Agenti (usati per verifiche di stabilità e allo SLU)

Condizioni Statiche	Sovraccarico Accidentale in condizioni statiche	q	=	42.00	(kN/m²)
	Forza Orizzontale in Testa in condizioni statiche	f	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni statiche	v	=	0.00	(kN/m)
	Momento in Testa in condizioni statiche	m	=	0.00	(kNm/m)
Condizioni Sismiche	Sovraccarico Accidentale in condizioni sismiche	qs	=	12.00	(kN/m²)
	Forza Orizzontale in Testa in condizioni sismiche	fs	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni sismiche	vs	=	0.00	(kN/m)
	Momento in Testa in condizioni sismiche	ms	=	0.00	(kNm/m)

VERIFICHE GEOTECNICHE

FORZE VERTICALI

- Peso del Muro (Pm)

Pm1 = (B2*H3*γcls)/2 = 0.00 (kN/m)
Pm2 = (B3*H3*γcls) = 14.25 (kN/m)
Pm3 = (B4*H3*γcls)/2 = 0.00 (kN/m)
Pm4 = (B*H2*γcls) = 12.75 (kN/m)
Pm5 = (Bd*Hd*γcls) = 0.00 (kN/m)
Pm = Pm1 + Pm2 + Pm3 + Pm4 + Pm5 = 27.00 (kN/m)

- Peso del terreno sulla scarpa di monte del muro (Pt)

Pt1 = (B5*H3*γ') = 41.80 (kN/m)
Pt2 = (0,5*(B4+B5)*H4*γ') = 0.00 (kN/m)
Pt3 = (B4*H3*γ')/2 = 0.00 (kN/m)
Pt = Pt1 + Pt2 + Pt3 = 41.80 (kN/m)

MOMENTI DELLE FORZE VERT. RISPETTO AL PIEDE DI VALLE DEL MURO

- Muro (Mm)

Mm1 = Pm1*(B1+2/3 B2) = 0.00 (kNm/m)
Mm2 = Pm2*(B1+B2+0,5*B3) = 6.41 (kNm/m)
Mm3 = Pm3*(B1+B2+B3+1/3 B4) = 0.00 (kNm/m)
Mm4 = Pm4*(B/2) = 10.84 (kNm/m)
Mm5 = Pm5*(B - Bd/2) = 0.00 (kNm/m)
Mm = Mm1 + Mm2 + Mm3 + Mm4 +Mm5 = 17.25 (kNm/m)

- Terrapieno a tergo del muro

Mt1 = Pt1*(B1+B2+B3+B4+0,5*B5) = 48.07 (kNm/m)
Mt2 = Pt2*(B1+B2+B3+2/3*(B4+B5)) = 0.00 (kNm/m)
Mt3 = Pt3*(B1+B2+B3+2/3*B4) = 0.00 (kNm/m)
Mt = Mt1 + Mt2 + Mt3 = 48.07 (kNm/m)

CONDIZIONE STATICA (SLU A1-M1)

SPINTE DEL TERRENO E DEL SOVRACCARICO

- Spinta totale condizione statica

St = $0,5*\gamma'*(H2+H3+H4+Hd)^2*ka$ = 16.68 (kN/m)

Sq = $q*(H2+H3+H4+Hd)*ka$ = 22.74 (kN/m)

- Componente orizzontale condizione statica

Sth = $St*\cos\delta$ = 15.91 (kN/m)

Sqh = $Sq*\cos\delta$ = 21.69 (kN/m)

- Componente verticale condizione statica

Stv = $St*\mathrm{sen}\delta$ = 5.01 (kN/m)

Sqv = $Sq*\mathrm{sen}\delta$ = 6.84 (kN/m)

- Spinta passiva sul dente

Sp = $\frac{1}{2}*\gamma_1'*Hd^2*kp+(2*c_1'*kp^{0.5}+\gamma 1'*kp*H2')*Hd$ = 0.00 (kN/m)

MOMENTI DELLA SPINTA DEL TERRENO E DEL SOVRACCARICO

- Condizione statica

MSt1 = Sth*((H2+H3+H4+Hd)/3-Hd) = 11.66 (kN/m)

MSt2 = Stv*B = 8.53 (kN/m)

MSq1 = Sqh*((H2+H3+H4+Hd)/2-Hd) = 23.86 (kN/m)

MSq2 = Sqv*B = 11.63 (kN/m)

MSp = $\gamma_1'*Hd^3*kp/3+(2*c1'*kp0.5+g1'*kp*H2')*Hd^2/2$ = 0.00 (kN/m)

MOMENTI DOVUTI ALLE FORZE ESTERNE

Mfext1 = m = 0.00 (kNm/m)

Mfext2 = f*(H3 + H2) = 0.00 (kNm/m)

Mfext3 = v*(B1 +B2 + B3/2) = 0.00 (kNm/m)

VERIFICA ALLO SCORRIMENTO

Risultante forze verticali (N)

N = Pm + Pt + v + Stv + Sqv = 80.65 (kN/m)

Risultante forze orizzontali (T)

T = Sth + Sqh + f = 37.59 (kN/m)

Coefficiente di attrito alla base (f)

f = $tg\varphi 1'$ = 0.46 (-)

Fs = (N*f + c1'*B3 + Sp) / T = 1.43 (-)

VERIFICA AL RIBALTAMENTO

Momento stabilizzante (Ms)

Ms = Mm + Mt + MSt2 + MSq2 + Mfext3 = 85.47 (kNm/m)

Momento ribaltante (Mr)

Mr = MSt1 + MSq1 + Mfext1+ Mfext2 + MSp = 35.52 (kNm/m)

Fr = Ms / Mr = 2.41 (-)

VERIFICA DELLA FONDAZIONE

Risultante forze verticali (N)
N = Pm + Pt + v + Stv + Sqv = 80.65 (kN/m)

Risultante forze orizzontali (T)
T = Sth + Sqh + f - Sp = 37.59 (kN/m)

Risultante dei momenti rispetto al piede di valle (MM)
MM = Ms - Mr = 49.95 (kNm/m)

Momento rispetto al baricentro della fondazione (M)
M = Xc*N - MM = 18.61 (kNm/m)

Formula Generale per il Calcolo del Carico Limite Unitario (Brinch-Hansen, 1970)

Fondazione Nastriforme

$q_{lim} = c'Nc*ic + q_0*Nq*iq + 0,5*\gamma 1*B*N\gamma*i\gamma$

c1'	coesione terreno di fondaz.	=	10.00	(kPa)
$\varphi 1'$	angolo di attrito terreno di fondaz.	=	24.50	(°)
γ_1	peso unità di volume terreno fondaz.	=	19.00	(kN/m^3)
$q_0 = \gamma d*H2'$	sovraccarico stabilizzante	=	20.00	(kN/m^2)
e = M / N	eccentricità	=	0.23	(m)
B*= B - 2e	larghezza equivalente	=	1.24	(m)

I valori di Nc, Nq e Ng sono stati valutati con le espressioni suggerite da Vesic (1975)

$Nq = tg^2(45 + \varphi'/2)*e^{(\pi*tg(\varphi'))}$	(1 in cond. nd)	=	10.12	(-)
$Nc = (Nq - 1)/tg(\varphi')$	($2+\pi$ in cond. nd)	=	20.01	(-)
$N\gamma = 2*(Nq + 1)*tg(\varphi')$	(0 in cond. nd)	=	10.13	(-)

I valori di ic, iq e $i\gamma$ sono stati valutati con le espressioni suggerite da Vesic (1975)

$iq = (1 - T/(N + B*c'cotg\varphi'))^m$	(1 in cond. nd)	=	0.42	(-)
$ic = iq - (1 - iq)/(Nq - 1)$		=	0.36	(-)
$i\gamma = (1 - T/(N + B*c'cotg\varphi'))^{m+1}$		=	0.28	(-)

(fondazione nastriforme m = 2)

qlim	(carico limite unitario)	=	191.04	(kN/m^2)
F = qlim*B*/ N		=	**2.93**	**(-)**

CALCOLI STATICI - Verifica allo Stato Limite Ultimo

CARATTERISTICHE DEI MATERIALI

Calcestruzzo

Rck = 40 (MPa)

γ_c = 1.9

fcd = Rck /$\gamma_{m,c}$ = 21.05 (MPa)

Copriferro

c = 5.60 (cm)

Acciaio

tipo di acciaio: B450C

fyk = 450 (MPa)

γ_E = 1.00

γ_S = 1.15

fyd = fyk /γ_S / γ_E = 391.30 (MPa)

Es = 210000 (MPa)

ε_{ys} = 0.19%

ε_{uk} = 3.000%

ε_{ud} = 2.700%

CALCOLO SOLLECITAZIONI SOLETTA DI FONDAZIONE

Reazione del terreno

σ_{valle} = N / A + M / Wgg

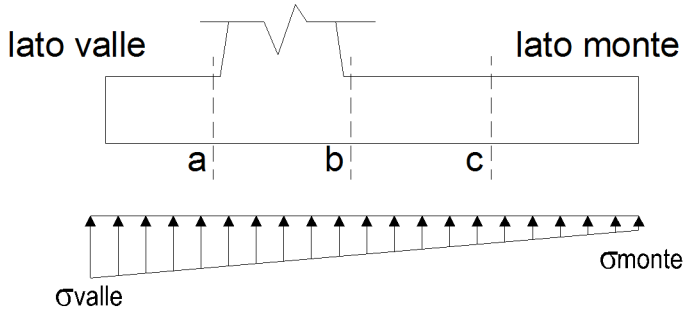
σ_{monte} = N / A - M / Wgg

A = 1.0*B = 1.70 (m^2)

Wgg = 1.0*B^2/6 = 0.48 (m^3)

caso	N	M	σ_{valle}	σ_{monte}
	[kN]	[kNm]	[kN/m^2]	[kN/m^2]
statico	80.65	18.61	86.07	8.81

sezioni di verifica



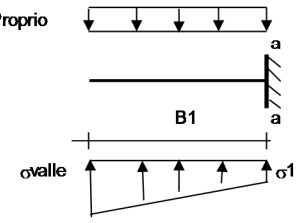
Mensola Lato Valle

Peso Proprio. PP = 7.50 (kN/m)

Ma = σ_1*$B1^2$/2 + (σ_{valle} - σ_1)*$B1^2$/3 - PP*$B1^2$/2*(1±kv)

caso	σ_{valle}	σ_1	Ma
	[kN/m^2]	[kN/m^2]	[kNm]
statico	86.07	72.44	3.33

Ta
[kN]
21.53



Mensola Lato Monte

PP = 7.50 (kN/m^2) peso proprio soletta fondazione

PD = 0.00 (kN/m) peso proprio dente

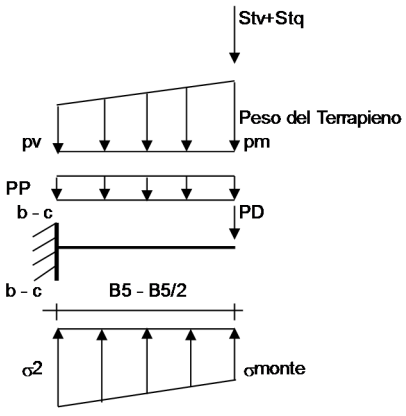
pm = 53.20 (kN/m^2)

pvb = 53.20 (kN/m^2)

pvc = 53.20 (kN/m^2)

Mb=(σ_{monte}-(pvb+PP)*(1±kv))*$B5^2$/2+(σ_{2b}-σ_{monte})*$B5^2$/6-(pm-pvb))*(1±kv)*$B5^2$/3+
-(Stv+Sqv)*B5-PD*(1±kv)*(B5-Bd/2)-PD*kh*(Hd+H2/2)+Msp+Sp*H2/2

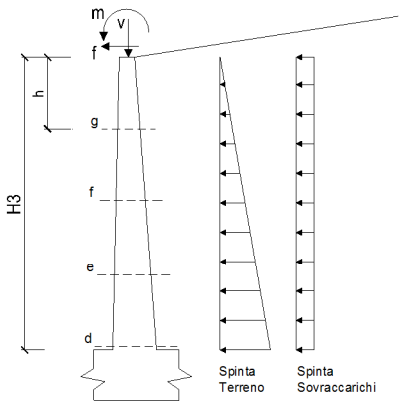
Mc =(σ_{monte}-(pvc+PP)*(1±kv))*$(B5/2)^2$/2+(σ_{2c}-σ_{monte})*$(B5/2)^2$/6-(pm-pvc)*(1±kv)*$(B5/2)^2$/3+
-(Stv+Sqv)*(B5/2)-PD*(1±kv)*(B5/2-Bd/2)-PD*kh*(Hd+H2/2)+Msp+Sp*H2/2



caso	σ_{monte}	σ_{2b}	Mb	σ_{2c}	Mc	Tb
	[kN/m^2]	[kN/m^2]	[kNm]	[kN/m^2]	[kNm]	[kN]
statico	8.81	58.80	-34.35	33.81	-13.11	-41.43

CALCOLO SOLLECITAZIONI PARAMENTO VERTICALE DEL MURO

Azioni sulla parete e Sezioni di Calcolo



Dati Sismici	Accelerazione sismica	a_g/g	=	0.28	(-)	
	Categoria di suolo	S	=	1.25	(-)	
	il muro ammette spostamenti? (si/no)	◉ si		○ no	r = 2	
	coefficiente sismico orizzontale	kh	=	0.1719	(-)	
	coefficiente sismico verticale	kv	=	0.0859	(-)	
Coefficienti di Spinta	Coeff. di Spinta Attiva sulla parete	ka	=	0.25	(-)	0.246
	componente orizzontale	kah	=	0.235	(-)	
	componente verticale	kav	=	0.07	(-)	
	Coeff. Di Spinta Attiva Sismica sulla parete	kas+	=	0.35	(-)	0.347
	componente orizzontale	kash+	=	0.33	(-)	
	componente verticale	kasv+	=	0.10	(-)	
	Coeff. Di Spinta Attiva Sismica sulla parete	kas-	=	0.37	(-)	0.370
	componente orizzontale	kash-	=	0.35	(-)	
	componente verticale	kasv-	=	0.11	(-)	

M_t = ½ $Ka_{orizz.}$ * γ*(1±kv)*h^2*h/3 o ½ $Ka_{orizz.}$ * γ*(1±kv)*h^2*h/2 (con sisma)

M_q = ½ $Ka_{orizz.}$*q*h^2

M_{ext} = m+f*h

$M_{inerzia}$ = $\sum Pm_i*b_i*kh$ (solo con sisma)

N_t = ½ $Ka_{vert.}$ * γ*(1±kv)*h^2

N_q = $Ka_{vert.}$*q*h

N_{ext} = v

$N_{pp+inerzia}$ = $\sum Pm_i*(1±kv)$

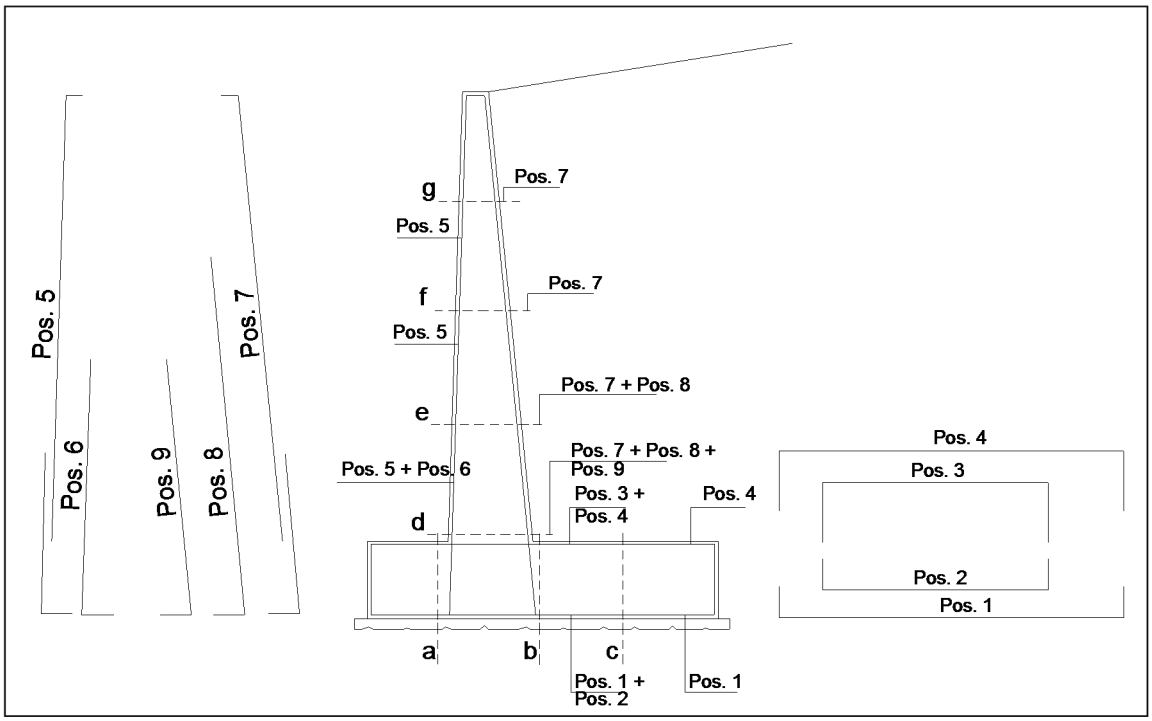
condizione statica

sezione	h	Tt	Tq	T_{ext}	T_{tot}
	[m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
d-d	1.90	11.86	18.73	0.00	30.59
e-e	1.43	6.67	14.05	0.00	20.72
f-f	0.95	2.97	9.37	0.00	12.33
g-g	0.48	0.74	4.68	0.00	5.42

condizione statica

sezione	h	Mt	Mq	M_{ext}	M_{tot}	Nt	Nq	N_{ext}	N_{pp}	N_{tot}
	[m]	[kNm/m]	[kNm/m]	[kNm/m]	[kNm/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
d-d	1.90	7.51	17.80	0.00	25.31	3.74	5.91	0.00	14.25	23.90
e-e	1.43	3.17	10.01	0.00	13.18	2.10	4.43	0.00	10.69	17.22
f-f	0.95	0.94	4.45	0.00	5.39	0.94	2.95	0.00	7.13	11.01
g-g	0.48	0.12	1.11	0.00	1.23	0.23	1.48	0.00	3.56	5.27

SCHEMA DELLE ARMATURE

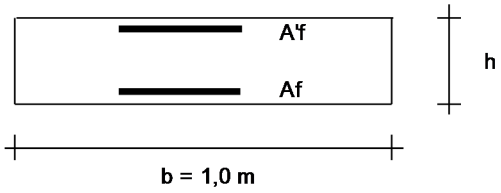


ARMATURE

pos	n°/ml	ϕ	pos	n°/ml	ϕ
1	5.0	12	5	5.0	12
2	5.0	0	6	0.0	0
3	5.0	0	7	5.0	12
4	5.0	12	8	0.0	0
			9	5.0	0

Calcola

VERIFICHE



a-a	pos 1-2-3-4
b-b	pos 1-2-3-4
c-c	pos 1-4
d-d	pos 5-6-7-8-9
e-e	pos 5-7-8
f-f	pos 5-7
g-g	pos 5-7

Sez.	M	N	h	Af	A'f	Mu
(-)	(kNm)	(kN)	(m)	(cm^2)	(cm^2)	(kNm)
a - a	3.33	0.00	0.30	5.65	5.65	62.19
b - b	-34.35	0.00	0.30	5.65	5.65	62.19
c - c	-13.11	0.00	0.30	5.65	5.65	62.19
d - d	25.31	23.90	0.30	5.65	5.65	64.71
e -e	13.18	17.22	0.30	5.65	5.65	64.01
f - f	5.39	11.01	0.30	5.65	5.65	63.35
g - g	1.23	5.27	0.30	5.65	5.65	62.75

coefficienti parziali

		caso	azioni		proprietà del terreno		
			permanenti	temporane e variabili	tan φ'	c'	c_u
			sfavorevoli	sfavorevoli			
SLU	○	caso A1+M1	1.40	1.50	1.00	1.00	1.00
SLU	◉	caso A2+M2	1.00	1.30	1.25	1.25	1.40
SLD	○	–	1.00	1.00	1.25	1.25	1.40
def.	○	–	1.00	1.00	1.00	1.00	1.00

Dati Geotecnici (usati per verifiche di stabilità e SLU)

Dati Terrapieno	Angolo di attrito del terrapieno	φ'	=	29.26	(°)		
	Peso Unità di Volume del terrapieno	γ'	=	20.00	(kN/m^3)		
	Angolo di Inclinazione Piano di Campagna	ε	=	0.00	(°)		
	Angolo di attrito terreno-paramento	δ_{muro}	=	14.63	(°)		
	Angolo di attrito terreno-superficie ideale	$\delta_{sup\ id}$	=	14.63	(°)		
Dati Terreno Fondazione	Coesione Terreno di Fondazione	c1'	=	8.00	(kN/m^2)		
	Angolo di attrito del Terreno di Fondazione	φ_1'	=	20.03	(°)		
	Peso Unità di Volume del Terreno di Fondazione	γ_1	=	19.00	(kN/m^3)		
	Peso Unità di Volume del Rinterro della Fondazione	γd	=	20.00	(kN/m^3)		
	Profondità Piano di Posa della Fondazione	H2'	=	1.00	(m)		
	Profondità Falda	Zw	=	100.00	(m)		
Coefficienti di Spinta	Coeff. di Spinta Attiva sulla superficie ideale	ka	=	0.31	(-)	0.310	Valori di Normativa
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale	kas+	=	0.43	(-)	0.425	
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale	kas-	=	0.45	(-)	0.452	
	Coeff. Di Spinta Passiva in Fondazione	kp	=	2.04	(-)	2.042	
	Coeff. Di Spinta Passiva Sismica in Fondazione	kps+	=	1.79	(-)	1.792	
	Coeff. Di Spinta Passiva Sismica in Fondazione	kps-	=	1.74	(-)	1.737	

Carichi Agenti (usati per verifiche di stabilità e allo SLU)

Condizioni Statiche	Sovraccarico Accidentale in condizioni statiche	q	=	36.40	(kN/m^2)
	Forza Orizzontale in Testa in condizioni statiche	f	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni statiche	v	=	0.00	(kN/m)
	Momento in Testa in condizioni statiche	m	=	0.00	(kNm/m)
Condizioni Sismiche	Sovraccarico Accidentale in condizioni sismiche	qs	=	10.40	(kN/m^2)
	Forza Orizzontale in Testa in condizioni sismiche	fs	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni sismiche	vs	=	0.00	(kN/m)
	Momento in Testa in condizioni sismiche	ms	=	0.00	(kNm/m)

VERIFICHE GEOTECNICHE

FORZE VERTICALI

- Peso del Muro (Pm)

Pm1 =	(B2*H3*γcls)/2	=	0.00	(kN/m)
Pm2 =	(B3*H3*γcls)	=	14.25	(kN/m)
Pm3 =	(B4*H3*γcls)/2	=	0.00	(kN/m)
Pm4 =	(B*H2*γcls)	=	12.75	(kN/m)
Pm5 =	(Bd*Hd*γcls)	=	0.00	(kN/m)
Pm =	Pm1 + Pm2 + Pm3 + Pm4 + Pm5	=	27.00	(kN/m)

- Peso del terreno sulla scarpa di monte del muro (Pt)

Pt1 =	(B5*H3*γ)	=	41.80	(kN/m)
Pt2 =	(0,5*(B4+B5)*H4*γ)	=	0.00	(kN/m)
Pt3 =	(B4*H3*γ)/2	=	0.00	(kN/m)
Pt =	Pt1 + Pt2 + Pt3	=	41.80	(kN/m)

MOMENTI DELLE FORZE VERT. RISPETTO AL PIEDE DI VALLE DEL MURO

- Muro (Mm)

Mm1 =	Pm1*(B1+2/3 B2)	=	0.00	(kNm/m)
Mm2 =	Pm2*(B1+B2+0,5*B3)	=	6.41	(kNm/m)
Mm3 =	Pm3*(B1+B2+B3+1/3 B4)	=	0.00	(kNm/m)
Mm4 =	Pm4*(B/2)	=	10.84	(kNm/m)
Mm5 =	Pm5*(B - Bd/2)	=	0.00	(kNm/m)
Mm =	Mm1 + Mm2 + Mm3 + Mm4 +Mm5	=	17.25	(kNm/m)

- Terrapieno a tergo del muro

Mt1 =	Pt1*(B1+B2+B3+B4+0,5*B5)	=	48.07	(kNm/m)
Mt2 =	Pt2*(B1+B2+B3+2/3*(B4+B5))	=	0.00	(kNm/m)
Mt3 =	Pt3*(B1+B2+B3+2/3*B4)	=	0.00	(kNm/m)
Mt =	Mt1 + Mt2 + Mt3	=	48.07	(kNm/m)

CONDIZIONE STATICA (SLU A2-M2)

SPINTE DEL TERRENO E DEL SOVRACCARICO

- Spinta totale condizione statica

St = $0,5*\gamma'*(H2+H3+H4+Hd)^2*ka$ = 15.03 (kN/m)

Sq = $q*(H2+H3+H4+Hd)*ka$ = 24.86 (kN/m)

- Componente orizzontale condizione statica

Sth = $St*\cos\delta$ = 14.54 (kN/m)

Sqh = $Sq*\cos\delta$ = 24.06 (kN/m)

- Componente verticale condizione statica

Stv = $St*\mathrm{sen}\delta$ = 3.80 (kN/m)

Sqv = $Sq*\mathrm{sen}\delta$ = 6.28 (kN/m)

- Spinta passiva sul dente

Sp = $\frac{1}{2}*\gamma_1'*Hd^2*kp+(2*c_1'*kp^{0.5}+\gamma 1'*kp*H2')*Hd$ = 0.00 (kN/m)

MOMENTI DELLA SPINTA DEL TERRENO E DEL SOVRACCARICO

- Condizione statica

MSt1 = Sth*((H2+H3+H4+Hd)/3-Hd) = 10.66 (kN/m)

MSt2 = Stv*B = 6.45 (kN/m)

MSq1 = Sqh*((H2+H3+H4+Hd)/2-Hd) = 26.46 (kN/m)

MSq2 = Sqv*B = 10.67 (kN/m)

MSp = $\gamma_1'*Hd^3*kp/3+(2*c1'*kp0.5+g1'*kp*H2')*Hd^2/2$ = 0.00 (kN/m)

MOMENTI DOVUTI ALLE FORZE ESTERNE

Mfext1 = m = 0.00 (kNm/m)

Mfext2 = f*(H3 + H2) = 0.00 (kNm/m)

Mfext3 = v*(B1 +B2 + B3/2) = 0.00 (kNm/m)

VERIFICA ALLO SCORRIMENTO

Risultante forze verticali (N)

N = Pm + Pt + v + Stv + Sqv = 78.87 (kN/m)

Risultante forze orizzontali (T)

T = Sth + Sqh + f = 38.60 (kN/m)

Coefficiente di attrito alla base (f)

f = $tg_{\varphi 1}'$ = 0.36 (-)

Fs = (N*f + c1'*B3 + Sp) / T = 1.19 (-)

VERIFICA AL RIBALTAMENTO

Momento stabilizzante (Ms)

Ms = Mm + Mt + MSt2 + MSq2 + Mfext3 = 82.45 (kNm/m)

Momento ribaltante (Mr)

Mr = MSt1 + MSq1 + Mfext1+ Mfext2 + MSp = 37.13 (kNm/m)

Fr = Ms / Mr = 2.22 (-)

VERIFICA DELLA FONDAZIONE

Risultante forze verticali (N)
N = Pm + Pt + v + Stv + Sqv = 78.87 (kN/m)

Risultante forze orizzontali (T)
T = Sth + Sqh + f - Sp = 38.60 (kN/m)

Risultante dei momenti rispetto al piede di valle (MM)
MM = Ms - Mr = 45.32 (kNm/m)

Momento rispetto al baricentro della fondazione (M)
M = Xc*N - MM = 21.72 (kNm/m)

Formula Generale per il Calcolo del Carico Limite Unitrario (Brinch-Hansen, 1970)

Fondazione Nastriforme

$qlim = c'Nc*ic + q_0*Nq*iq + 0,5*\gamma 1*B*N\gamma*i\gamma$

c1'	coesione terreno di fondaz.	=	8.00	(kPa)
$\varphi 1'$	angolo di attrito terreno di fondaz.	=	20.03	(°)
γ_1	peso unità di volume terreno fondaz.	=	19.00	(kN/m^3)
$q_0 = \gamma d*H2'$	sovraccarico stabilizzante	=	20.00	(kN/m^2)
e = M / N	eccentricità	=	0.28	(m)
B*= B - 2e	larghezza equivalente	=	1.15	(m)

I valori di Nc, Nq e Ng sono stati valutati con le espressioni suggerite da Vesic (1975)

$Nq = tg^2(45 + \varphi'/2)*e^{(\pi*tg(\varphi'))}$	(1 in cond. nd)	=	6.42	(-)
$Nc = (Nq - 1)/tg(\varphi')$	($2+\pi$ in cond. nd)	=	14.86	(-)
$N\gamma = 2*(Nq + 1)*tg(\varphi')$	(0 in cond. nd)	=	5.41	(-)

I valori di ic, iq e $i\gamma$ sono stati valutati con le espressioni suggerite da Vesic (1975)

$iq = (1 - T/(N + B*c'cotg\varphi'))^m$	(1 in cond. nd)	=	0.40	(-)
$ic = iq - (1 - iq)/(Nq - 1)$		=	0.28	(-)
$i\gamma = (1 - T/(N + B*c'cotg\varphi'))^{m+1}$		=	0.25	(-)

(fondazione nastriforme m = 2)

qlim	(carico limite unitario)	=	99.34	(kN/m^2)
F = qlim*B*/ N		=	**1.45**	**(-)**

CALCOLI STATICI - Verifica allo Stato Limite Ultimo

CARATTERISTICHE DEI MATERIALI

Calcestruzzo

Rck = 40 (MPa)

γ_c = 1.9

fcd = Rck /$\gamma_{m,c}$ = 21.05 (MPa)

Copriferro

c = 6.00 (cm)

Acciaio

tipo di acciaio: B450C

fyk = 450 (MPa)

γ_E = 1.00

γ_S = 1.15

fyd = fyk /γ_S / γ_E = 391.30 (MPa)

Es = 210000 (MPa)

ε_{ys} = 0.19%

ε_{uk} = 3.000%

ε_{ud} = 2.700%

CALCOLO SOLLECITAZIONI SOLETTA DI FONDAZIONE

Reazione del terreno

σ_{valle} = N / A + M / Wgg

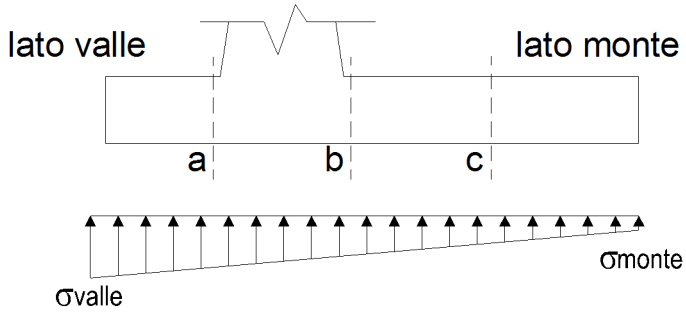
σ_{monte} = N / A - M / Wgg

A = 1.0*B = 1.70 (m^2)

Wgg = 1.0*B^2/6 = 0.48 (m^3)

caso	N	M	σ_{valle}	σ_{monte}
	[kN]	[kNm]	[kN/m^2]	[kN/m^2]
statico	78.87	21.72	91.50	1.29

sezioni di verifica



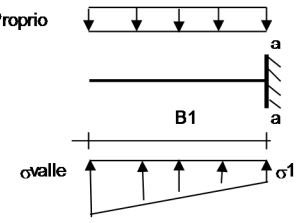
Mensola Lato Valle

Peso Proprio. PP = 7.50 (kN/m)

Ma = σ_1*$B1^2$/2 + (σ_{valle} - σ_1)*$B1^2$/3 - PP*$B1^2$/2*(1±kv)

caso	σ_{valle}	σ_1	Ma
	[kN/m^2]	[kN/m^2]	[kNm]
statico	91.50	75.58	3.54

Ta
[kN]
22.81



Mensola Lato Monte

PP = 7.50 (kN/m^2) peso proprio soletta fondazione

PD = 0.00 (kN/m) peso proprio dente

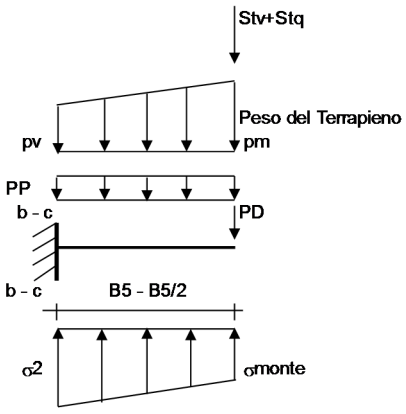
pm = 38.00 (kN/m^2)

pvb = 38.00 (kN/m^2)

pvc = 38.00 (kN/m^2)

Mb=(σ_{monte}-(pvb+PP)*(1±kv))*$B5^2$/2+(σ_{2b}-σ_{monte})*$B5^2$/6-(pm-pvb))*(1±kv)*$B5^2$/3+
-(Stv+Sqv)*B5-PD*(1±kv)*(B5-Bd/2)-PD*kh*(Hd+H2/2)+Msp+Sp*H2/2

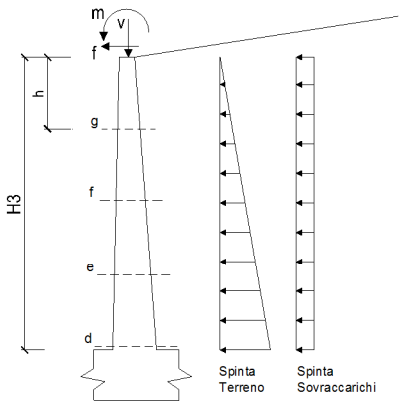
Mc =(σ_{monte}-(pvc+PP)*(1±kv))*$(B5/2)^2$/2+(σ_{2c}-σ_{monte})*$(B5/2)^2$/6-(pm-pvc)*(1±kv)*$(B5/2)^2$/3+
-(Stv+Sqv)*(B5/2)-PD*(1±kv)*(B5/2-Bd/2)-PD*kh*(Hd+H2/2)+Msp+Sp*H2/2



caso	σ_{monte}	σ_{2b}	Mb	σ_{2c}	Mc	Tb
	[kN/m^2]	[kN/m^2]	[kNm]	[kN/m^2]	[kNm]	[kN]
statico	1.29	59.66	-26.06	30.48	-10.76	-26.60

CALCOLO SOLLECITAZIONI PARAMENTO VERTICALE DEL MURO

Azioni sulla parete e Sezioni di Calcolo



Dati Sismici	Accelerazione sismica	a_g/g	=	0.28	(-)	
	Categoria di suolo	S	=	1.25	(-)	
	il muro ammette spostamenti? (si/no)	◉ si		○ no	r = 2	
	coefficiente sismico orizzontale	kh	=	0.1719	(-)	
	coefficiente sismico verticale	kv	=	0.0859	(-)	
Coefficienti di Spinta	Coeff. di Spinta Attiva sulla parete	ka	=	0.31	(-)	0.310
	componente orizzontale	kah	=	0.300	(-)	
	componente verticale	kav	=	0.08	(-)	
	Coeff. Di Spinta Attiva Sismica sulla parete	kas+	=	0.43	(-)	0.425
	componente orizzontale	kash+	=	0.41	(-)	
	componente verticale	kasv+	=	0.11	(-)	
	Coeff. Di Spinta Attiva Sismica sulla parete	kas-	=	0.45	(-)	0.452
	componente orizzontale	kash-	=	0.44	(-)	
	componente verticale	kasv-	=	0.11	(-)	

Mt = ½ $Ka_{orizz.}$ * γ*(1±kv)*h^2*h/3 o ½ $Ka_{orizz.}$ * γ*(1±kv)*h^2*h/2 (con sisma)

Mq = ½ $Ka_{orizz.}$*q*h^2

M_{ext} = m+f*h

$M_{inerzia}$ = ∑Pm_i*b_i*kh (solo con sisma)

Nt = ½ $Ka_{vert.}$ * γ*(1±kv)*h^2

Nq = $Ka_{vert.}$*q*h

N_{ext} = v

$N_{pp+inerzia}$ = ∑Pm_i*(1±kv)

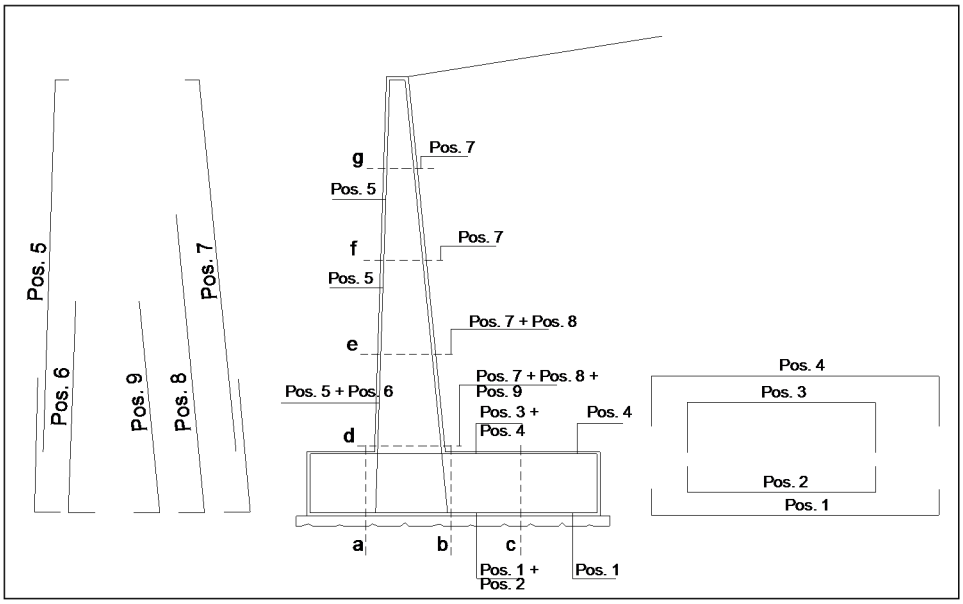
condizione statica

sezione	h	Tt	Tq	T_{ext}	T_{tot}
	[m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
d-d	1.90	10.85	20.78	0.00	31.62
e-e	1.43	6.10	15.58	0.00	21.68
f-f	0.95	2.71	10.39	0.00	13.10
g-g	0.48	0.68	5.19	0.00	5.87

condizione statica

sezione	h	Mt	Mq	M_{ext}	M_{tot}	Nt	Nq	N_{ext}	N_{pp}	N_{tot}
	[m]	[kNm/m]	[kNm/m]	[kNm/m]	[kNm/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
d-d	1.90	6.87	19.74	0.00	26.61	2.83	5.42	0.00	14.25	22.50
e-e	1.43	2.90	11.10	0.00	14.00	1.59	4.07	0.00	10.69	16.35
f-f	0.95	0.86	4.93	0.00	5.79	0.71	2.71	0.00	7.13	10.54
g-g	0.48	0.11	1.23	0.00	1.34	0.18	1.36	0.00	3.56	5.10

SCHEMA DELLE ARMATURE

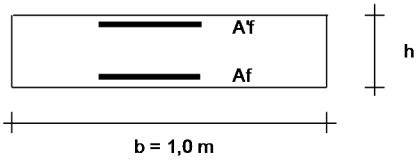


ARMATURE

pos	n°/ml	ϕ	pos	n°/ml	ϕ
1	5.0	12	5	5.0	12
2	5.0	0	6	0.0	0
3	5.0	0	7	5.0	12
4	5.0	12	8	0.0	0
			9	5.0	0

Calcola

VERIFICHE



a-a	pos 1-2-3-4
b-b	pos 1-2-3-4
c-c	pos 1-4
d-d	pos 5-6-7-8-9
e-e	pos 5-7-8
f-f	pos 5-7
g-g	pos 5-7

Sez.	M	N	h	Af	A'f	Mu
(-)	(kNm)	(kN)	(m)	(cm^2)	(cm^2)	(kNm)
a - a	3.54	0.00	0.30	5.65	5.65	63.01
b - b	-26.06	0.00	0.30	5.65	5.65	63.01
c - c	-10.76	0.00	0.30	5.65	5.65	63.01
d - d	26.61	22.50	0.30	5.65	5.65	65.33
e -e	14.00	16.35	0.30	5.65	5.65	64.69
f - f	5.79	10.54	0.30	5.65	5.65	64.10
g - g	1.34	5.10	0.30	5.65	5.65	63.54

coefficienti parziali

		caso	azioni		proprietà del terreno		
			permanenti	temporane e variabili	tan φ'	c'	c_u
			sfavorevoli	sfavorevoli			
SLU	○	caso A1+M1	1.40	1.50	1.00	1.00	1.00
SLU	○	caso A2+M2	1.00	1.30	1.25	1.25	1.40
SLD	◉	Sismica	1.00	1.00	1.25	1.25	1.40
def.	○	–	1.00	1.00	1.00	1.00	1.00

Dati Geotecnici (usati per verifiche di stabilità e SLU)

Dati Terrapieno	Angolo di attrito del terrapieno	φ'	=	29.26	(°)		
	Peso Unità di Volume del terrapieno	γ'	=	20.00	(kN/m^3)		
	Angolo di Inclinazione Piano di Campagna	ε	=	0.00	(°)		
	Angolo di attrito terreno-paramento	δ_{muro}	=	14.63	(°)		
	Angolo di attrito terreno-superficie ideale	$\delta_{sup\ id}$	=	14.63	(°)		
Dati Terreno Fondazione	Coesione Terreno di Fondazione	c1'	=	8.00	(kN/m^2)		
	Angolo di attrito del Terreno di Fondazione	φ_1'	=	20.03	(°)		
	Peso Unità di Volume del Terreno di Fondazione	γ_1	=	19.00	(kN/m^3)		
	Peso Unità di Volume del Rinterro della Fondazione	γd	=	20.00	(kN/m^3)		
	Profondità Piano di Posa della Fondazione	H2'	=	1.00	(m)		
	Profondità Falda	Zw	=	100.00	(m)		
Coefficienti di Spinta	Coeff. di Spinta Attiva sulla superficie ideale	ka	=	0.31	(-)	0.310	Valori di Normativa
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale	kas+	=	0.43	(-)	0.425	
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale	kas-	=	0.45	(-)	0.452	
	Coeff. Di Spinta Passiva in Fondazione	kp	=	2.04	(-)	2.042	
	Coeff. Di Spinta Passiva Sismica in Fondazione	kps+	=	1.79	(-)	1.792	
	Coeff. Di Spinta Passiva Sismica in Fondazione	kps-	=	1.74	(-)	1.737	

Carichi Agenti (usati per verifiche di stabilità e allo SLU)

Condizioni Statiche	Sovraccarico Accidentale in condizioni statiche	q	=	28.00	(kN/m^2)
	Forza Orizzontale in Testa in condizioni statiche	f	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni statiche	v	=	0.00	(kN/m)
	Momento in Testa in condizioni statiche	m	=	0.00	(kNm/m)
Condizioni Sismiche	Sovraccarico Accidentale in condizioni sismiche	qs	=	8.00	(kN/m^2)
	Forza Orizzontale in Testa in condizioni sismiche	fs	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni sismiche	vs	=	0.00	(kN/m)
	Momento in Testa in condizioni sismiche	ms	=	0.00	(kNm/m)

VERIFICHE GEOTECNICHE

FORZE VERTICALI

- Peso del Muro (Pm)

Pm1 =	(B2*H3*γcls)/2	=	0.00	(kN/m)
Pm2 =	(B3*H3*γcls)	=	14.25	(kN/m)
Pm3 =	(B4*H3*γcls)/2	=	0.00	(kN/m)
Pm4 =	(B*H2*γcls)	=	12.75	(kN/m)
Pm5 =	(Bd*Hd*γcls)	=	0.00	(kN/m)
Pm =	Pm1 + Pm2 + Pm3 + Pm4 + Pm5	=	27.00	(kN/m)

- Peso del terreno sulla scarpa di monte del muro (Pt)

Pt1 =	(B5*H3*γ')	=	41.80	(kN/m)
Pt2 =	(0,5*(B4+B5)*H4*γ')	=	0.00	(kN/m)
Pt3 =	(B4*H3*γ')/2	=	0.00	(kN/m)
Pt =	Pt1 + Pt2 + Pt3	=	41.80	(kN/m)

MOMENTI DELLE FORZE VERT. RISPETTO AL PIEDE DI VALLE DEL MURO

- Muro (Mm)

Mm1 =	Pm1*(B1+2/3 B2)	=	0.00	(kNm/m)
Mm2 =	Pm2*(B1+B2+0,5*B3)	=	6.41	(kNm/m)
Mm3 =	Pm3*(B1+B2+B3+1/3 B4)	=	0.00	(kNm/m)
Mm4 =	Pm4*(B/2)	=	10.84	(kNm/m)
Mm5 =	Pm5*(B - Bd/2)	=	0.00	(kNm/m)
Mm =	Mm1 + Mm2 + Mm3 + Mm4 +Mm5	=	17.25	(kNm/m)

- Terrapieno a tergo del muro

Mt1 =	Pt1*(B1+B2+B3+B4+0,5*B5)	=	48.07	(kNm/m)
Mt2 =	Pt2*(B1+B2+B3+2/3*(B4+B5))	=	0.00	(kNm/m)
Mt3 =	Pt3*(B1+B2+B3+2/3*B4)	=	0.00	(kNm/m)
Mt =	Mt1 + Mt2 + Mt3	=	48.07	(kNm/m)

CONDIZIONE SISMICA +

SPINTE DEL TERRENO E DEL SOVRACCARICO

- Spinta totale condizione sismica +

Sst1 = $0,5*\gamma'*(1+kv)*(H2+H3+H4+Hd)^2*kas^+$ = 22.36 (kN/m)

Ssq1 = $qs*(H2+H3+H4+Hd)*kas^+$ = 7.49 (kN/m)

- Componente orizzontale condizione sismica +

Sst1h = $Sst1*\cos\delta$ = 21.64 (kN/m)

Ssq1h = $Ssq1*\cos\delta$ = 7.25 (kN/m)

- Componente verticale condizione sismica +

Sst1v = $Sst1*\mathrm{sen}\delta$ = 5.65 (kN/m)

Ssq1v = $Ssq1*\mathrm{sen}\delta$ = 1.89 (kN/m)

- Spinta passiva sul dente

$Sp=½*\gamma_1'(1+kv)\ Hd^2*kps^+ +(2*c_1'*kps^{+0,5}+\gamma 1'\ (1+kv)\ kps^+*H2')*Hd$ = 0.00 (kN/m)

MOMENTI DELLA SPINTA DEL TERRENO E DEL SOVRACCARICO

- Condizione sismica +

MSst1 = Sst1h * ((H2+H3+H4+Hd)/3-Hd) = 15.87 (kN/m)

MSst2 = Sst1v * B = 9.60 (kN/m)

MSsq1 = Ssq1h * ((H2+H3+H4+Hd)/2-Hd) = 7.97 (kN/m)

MSsq2 = Ssq1v * B = 3.21 (kN/m)

MSp = $\gamma_1'*Hd^3*kps^+/3+(2*c1'*kps^{+0,5}+\gamma 1'*kps^+*H2')*Hd^2/2$ = 0.00 (kN/m)

INERZIA DEL MURO E DEL TERRAPIENO

- Inerzia del muro (Ps)

Ps = Pm*kh = 4.64 (kN/m)

- Inerzia orizzontale e verticale del terrapieno a tergo del muro (Pts)

Ptsh = Pt*kh = 7.18 (kN/m)

Ptsv = Pt*kv = 3.59 (kN/m)

- Incremento di momento dovuto all'inerzia del muro (MPs)

MPs1 = kh*Pm1*(H2+H3/3) = 0.00 (kNm/m)

MPs2 = kh*Pm2*(H2 + H3/2) = 3.06 (kNm/m)

MPs3 = kh*Pm3*(H2+H3/3) = 0.00 (kNm/m)

MPs4 = kh*Pm4*(H2/2) = 0.33 (kNm/m)

MPs5 = -kh*Pm5*(Hd/2) = 0.00 (kNm/m)

MPs = MPs1+MPs2+MPs3+MPs4+MPs5 = 3.39 (kNm/m)

- Incremento di momento dovuto all'inerzia del terrapieno (MPts)

MPts1 = kh*Pt1*((H2 + H3/2) - (B - B5/2)*0.5) = 4.85 (kNm/m)

MPts2 = kh*Pt2*((H2 + H3 + H4/3) - (B - B5/3)*0.5) = 0.00 (kNm/m)

MPts3 = kh*Pt3*((H2+H3*2/3)-(B1+B2+B3+2/3*B4)*0.5) = 0.00 (kNm/m)

MPts = MPts1 + MPts2 + MPts3 = 4.85 (kNm/m)

MOMENTI DOVUTI ALLE FORZE ESTERNE

Mfext1 = ms = 0.00 (kNm/m)

Mfext2 = fs*(H3 + H2) = 0.00 (kNm/m)

Mfext3 = vs*(B1 +B2 + B3/2) = 0.00 (kNm/m)

VERIFICA ALLO SCORRIMENTO

Risultante forze verticali (N)

N = Pm+ Pt + vs + Sst1v + Ssq1v + Ptsv = 79.93 (kN/m)

Risultante forze orizzontali (T)

T = Sst1h + Ssq1h + fs +Ps + Ptsh = 40.71 (kN/m)

Coefficiente di attrito alla base (f)

f = $tg\varphi 1'$ = 0.36 (-)

Fs = (N*f + c1'*B3 + Sp) / T = 1.13 (-)

VERIFICA AL RIBALTAMENTO

Momento stabilizzante (Ms)

Ms = Mm + Mt + MSst2 + MSsq2 +Mfext3 = 78.14 (kNm/m)

Momento ribaltante (Mr)

Mr = MSst1+MSsq1+Mfext1+Mfext2+MSp+MPs+Mpts = 32.08 (kNm/m)

Fr = Ms / Mr = 2.44 (-)

VERIFICA DELLA FONDAZIONE

Risultante forze verticali (N)

N = Pm+ Pt + vs + Sst1v + Ssq1v + Ptsv = 79.93 (kN/m)

Risultante forze orizzontali (T)

T = Sst1h + Ssq1h + fs +Ps + Ptsh - Sp = 40.71 (kN/m)

Risultante dei momenti rispetto al piede di valle (MM)

MM = Ms - Mr = 46.06 (kNm/m)

Momento rispetto al baricentro della fondazione (M)

M = Xc*N - MM = 21.88 (kNm/m)

Formula Generale per il Calcolo del Carico Limite Unitrario (Brinch-Hansen, 1970)

Fondazione Nastriforme

$q_{lim} = c'N_c i_c + q_0 N_q i_q + 0{,}5 \gamma_1 B N_\gamma i_\gamma$

c1'	coesione terreno di fondaz.	=	8.00	(kN/mq)
$\varphi 1'$	angolo di attrito terreno di fondaz.	=	20.03	(°)
γ_1	peso unità di volume terreno fondaz.	=	19.00	(kN/m^3)
$q_0 = \gamma d * H2'$	sovraccarico stabilizzante	=	20.00	(kN/m^2)
e = M / N	eccentricità	=	0.27	(m)
B*= B - 2e	larghezza equivalente	=	1.15	(m)

I valori di Nc, Nq e Ng sono stati valutati con le espressioni suggerite da Vesic (1975)

$N_q = tg^2(45 + \varphi'/2) * e^{(\pi * tg(\varphi'))}$	(1 in cond. nd)	=	6.42	(-)
$N_c = (N_q - 1)/tg(\varphi')$	($2+\pi$ in cond. nd)	=	14.86	(-)
$N_\gamma = 2*(N_q + 1)*tg(\varphi')$	(0 in cond. nd)	=	5.41	(-)

I valori di ic, iq e i_γ sono stati valutati con le espressioni suggerite da Vesic (1975)

$i_q = (1 - T/(N + B*c'cotg\varphi'))^m$	(1 in cond. nd)	=	0.38	(-)
$i_c = i_q - (1 - i_q)/(N_q - 1)$		=	0.26	(-)
$i_\gamma = (1 - T/(N + B*c'cotg\varphi'))^{m+1}$		=	0.23	(-)

(fondazione nastriforme m = 2)

qlim (carico limite unitario) = 92.92 (kN/m^2)

F = qlim*B*/ N = 1.34 (-)

CONDIZIONE SISMICA -

SPINTE DEL TERRENO E DEL SOVRACCARICO

- Spinta totale condizione sismica -

Sst2 =	$0,5*\gamma*(1-kv)*(H2+H3+H4+Hd)^2*kas$	=	20.02	(kN/m)
Ssq2 =	$qs*(H2+H3+H4+Hd)*kas$	=	7.96	(kN/m)

- Componente orizzontale condizione sismica -

Sst2h =	$Sst2*\cos\delta$	=	19.37	(kN/m)
Ssq2h =	$Ssq2*\cos\delta$	=	7.71	(kN/m)

- Componente verticale condizione sismica -

Sst2v =	$Sst2*\mathrm{sen}\delta$	=	5.06	(kN/m)
Ssq2v =	$Ssq2*\mathrm{sen}\delta$	=	2.01	(kN/m)

- Spinta passiva sul dente

$Sp=\frac{1}{2}*\gamma_1'(1-kv)\,Hd^2*kps+(2*c_1'*kps^{0.5}+\gamma 1'(1-kv)\,kps*H2')*Hd$		=	0.00	(kN/m)

MOMENTI DELLA SPINTA DEL TERRENO E DEL SOVRACCARICO

- Condizione sismica -

MSst1 =	Sst2h * ((H2+H3+H4+Hd)/3-Hd)	=	14.20	(kN/m)
MSst2 =	Sst2v * B	=	8.59	(kN/m)
MSsq1 =	Ssq2h * ((H2+H3+H4+Hd)/2-Hd)	=	8.48	(kN/m)
MSsq2 =	Ssq2v * B	=	3.42	(kN/m)
MSp =	$\gamma_1'*Hd^3*kps/3+(2*c1'*kps^{0.5}+\gamma 1'*kps*H2')*Hd^2/2$	=	0.00	(kN/m)

INERZIA DEL MURO E DEL TERRAPIENO

- Inerzia del muro (Ps)

Ps =	Pm*kh	=	4.64	(kN/m)

- Inerzia orizzontale e verticale del terrapieno a tergo del muro (Pts)

Ptsh =	Pt*kh	=	7.18	(kN/m)
Ptsv =	Pt*kv	=	-3.59	(kN/m)

- Incremento di momento dovuto all'inerzia del muro (MPs)

MPs1 =	kh*Pm1*(H2+H3/3)	=	0.00	(kNm/m)
MPs2 =	kh*Pm2*(H2 + H3/2)	=	3.06	(kNm/m)
MPs3 =	kh*Pm3*(H2+H3/3)	=	0.00	(kNm/m)
MPs4 =	kh*Pm4*(H2/2)	=	0.33	(kNm/m)
MPs5 =	-kh*Pm5*(Hd/2)	=	0.00	(kNm/m)
MPs =	MPs1+MPs2+MPs3+MPs4+MPs5	=	3.39	(kNm/m)

- Incremento di momento dovuto all'inerzia del terrapieno (MPts)

MPts1 =	kh*Pt1*((H2 + H3/2) + (B - B5/2)*0.5)	=	13.11	(kNm/m)
MPts2 =	kh*Pt2*((H2 + H3 + H4/3) + (B - B5/3)*0.5)	=	0.00	(kNm/m)
MPts3 =	kh*Pt3*((H2+H3*2/3)+(B1+B2+B3+2/3*B4)*0.5)=		0.00	(kNm/m)
MPts =	MPts1 + MPts2 + MPts3	=	13.11	(kNm/m)

MOMENTI DOVUTI ALLE FORZE ESTERNE

Mfext1 =	ms	=	0.00	(kNm/m)
Mfext2 =	fs*(H3 + H2)	=	0.00	(kNm/m)
Mfext3 =	vs*(B1 +B2 + B3/2)	=	0.00	(kNm/m)

VERIFICA ALLO SCORRIMENTO

Risultante forze verticali (N)

N =	Pm+ Pt + vs + Sst1v + Ssq1v + Ptsv	=	72.27	(kN/m)

Risultante forze orizzontali (T)

T =	Sst1h + Ssq1h + fs+Ps + Ptsh	=	38.90	(kN/m)

Coefficiente di attrito alla base (f)

f =	$tg\varphi 1'$	=	0.36	(-)

Fs =	**(N*f + c1'*B3 + Sp) / T**	=	**1.11**	**(-)**

VERIFICA AL RIBALTAMENTO

Momento stabilizzante (Ms)

Ms =	Mm + Mt + MSst2 + MSsq2 +Mfext3	=	77.33	(kNm/m)

Momento ribaltante (Mr)

Mr =	MSst1+MSsq1+Mfext1+Mfext2+MSp+MPs+Mpts	=	39.18	(kNm/m)

Fr =	**Ms / Mr**	=	**1.97**	**(-)**

VERIFICA DELLA FONDAZIONE

Risultante forze verticali (N)

N = Pm+ Pt + vs + Sst1v + Ssq1v + Ptsv = 72.27 (kN/m)

Risultante forze orizzontali (T)

T = Sst1h + Ssq1h + fs+Ps + Ptsh - Sp = 38.90 (kN/m)

Risultante dei momenti rispetto al piede di valle (MM)

MM = Ms - Mr = 38.15 (kNm/m)

Momento rispetto al baricentro della fondazione (M)

M = Xc*N - MM = 23.28 (kNm/m)

Formula Generale per il Calcolo del Carico Limite Unitario (Brinch-Hansen, 1970)

Fondazione Nastriforme

$q_{lim} = c'Nc*ic + q_0*Nq*iq + 0,5*\gamma 1*B*N\gamma*i\gamma$

c1'	coesione terreno di fondaz.	=	8.00	(kN/mq)
$\varphi 1'$	angolo di attrito terreno di fondaz.	=	20.03	(°)
γ_1	peso unità di volume terreno fondaz.	=	19.00	(kN/m^3)
$q_0 = \gamma d*H2'$	sovraccarico stabilizzante	=	20.00	(kN/m^2)
e = M / N	eccentricità	=	0.32	(m)
B*= B - 2e	larghezza equivalente	=	1.06	(m)

I valori di Nc, Nq e Ng sono stati valutati con le espressioni suggerite da Vesic (1975)

$Nq = tg^2(45 + \varphi'/2)*e^{(\pi*tg(\varphi'))}$	(1 in cond. nd)	=	6.42	(-)
$Nc = (Nq - 1)/tg(\varphi')$	($2+\pi$ in cond. nd)	=	14.86	(-)
$N\gamma = 2*(Nq + 1)*tg(\varphi')$	(0 in cond. nd)	=	5.41	(-)

I valori di ic, iq e $i\gamma$ sono stati valutati con le espressioni suggerite da Vesic (1975)

$iq = (1 - T/(N + B*c'cotg\varphi'))^m$	(1 in cond. nd)	=	0.35	(-)
$ic = iq - (1 - iq)/(Nq - 1)$		=	0.23	(-)
$i\gamma = (1 - T/(N + B*c'cotg\varphi'))^{m+1}$		=	0.21	(-)

(fondazione nastriforme m = 2)

qlim (carico limite unitario) = 83.83 (kN/m^2)

F = qlim*B*/ N = 1.22 (-)

CALCOLI STATICI - Verifica allo Stato Limite Ultimo

CARATTERISTICHE DEI MATERIALI

Calcestruzzo

Rck = 40 (MPa)

γ_c = 1.9

fcd = Rck /$\gamma_{m,c}$ = 21.05 (MPa)

Copriferro

c = 5.60 (cm)

Acciaio

tipo di acciaio B450C

fyk = 450 (MPa)

γ_E = 1.00

γ_s = 1.15

fyd = fyk /γ_s / γ_E = 391.30 (MPa)

Es = 210000 (MPa)

ε_{ys} = 0.19%

ε_{uk} = 3.000%

ε_{ud} = 2.700%

CALCOLO SOLLECITAZIONI SOLETTA DI FONDAZIONE

Reazione del terreno

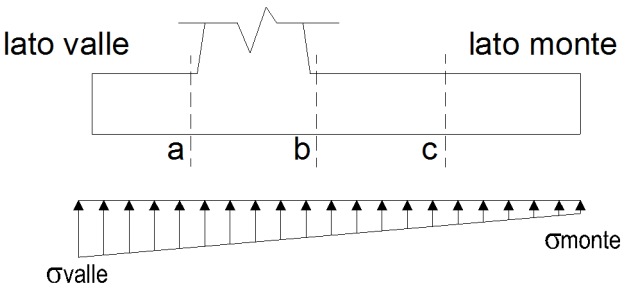
σ_{valle} = N / A + M / Wgg

σ_{monte} = N / A - M / Wgg

A = 1.0*B = 1.70 (m^2)

Wgg = 1.0*B^2/6 = 0.48 (m^3)

sezioni di verifica



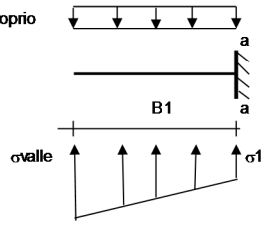
caso	N	M	σvalle	σmonte
	[kN]	[kNm]	[kN/m²]	[kN/m²]
sisma+	79.93	21.88	92.45	1.59
sisma-	72.27	23.28	91.28	0.00

Mensola Lato Valle

Peso Proprio. PP = 7.50 (kN/m)

Ma = $\sigma 1*B1^2/2 + (\sigma_{valle} - \sigma 1)*B1^2/3 - PP*B1^2/2*(1\pm kv)$

caso	σvalle	σ1	Ma	Ta
	[kN/m²]	[kN/m²]	[kNm]	[kN]
sisma+	92.45	76.41	3.55	22.89
sisma-	91.28	73.99	3.54	21.87



Mensola Lato Monte

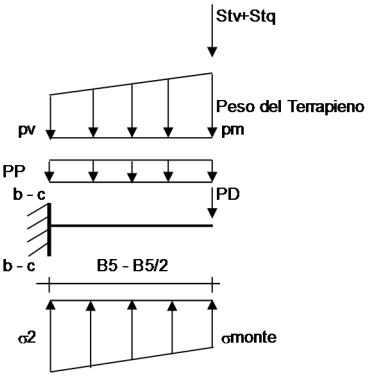
PP = 7.50 (kN/m^2) peso proprio soletta fondazione

PD = 0.00 (kN/m) peso proprio dente

pm = 38.00 (kN/m^2)

pvb = 38.00 (kN/m^2)

pvc = 38.00 (kN/m^2)



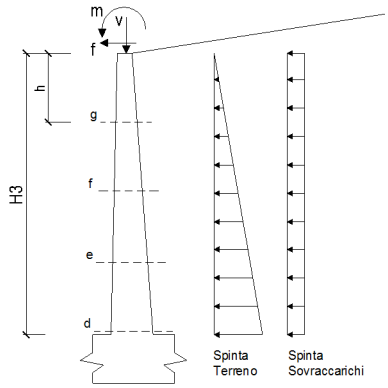
Mb=(σ_{monte}-(pvb+PP)*(1±kv))*$B5^2$/2+(σ2b-σ_{monte})*$B5^2$/6-(pm-pvb))*(1±kv)*$B5^2$/3+
-(Stv+Sqv)*B5-PD*(1±kv)*(B5-Bd/2)-PD*kh*(Hd+H2/2)+Msp+Sp*H2/2

Mc =(σ_{monte}-(pvc+PP)*(1±kv))*$(B5/2)^2$/2+(σ2c-σ_{monte})*$(B5/2)^2$/6-(pm-pvc)*(1±kv)*$(B5/2)^2$/3+
-(Stv+Sqv)*(B5/2)-PD*(1±kv)*(B5/2-Bd/2)-PD*kh*(Hd+H2/2)+Msp+Sp*H2/2

caso	σmonte	σ2b	Mb	σ2c	Mc	Tb
	[kN/m²]	[kN/m²]	[kNm]	[kN/m²]	[kNm]	[kN]
sisma+	1.59	60.38	-25.37	30.98	-9.90	-27.81
sisma-	0.00	56.69	-23.79	24.99	-9.39	-24.93

CALCOLO SOLLECITAZIONI PARAMENTO VERTICALE DEL MURO

Azioni sulla parete e Sezioni di Calcolo



Dati Sismici	Accelerazione sismica	a_g/g	=	0.28	(-)	
	Categoria di suolo	S	=	1.25	(-)	
	il muro ammette spostamenti? (si/no)	◉ si		○ no	r = 2	
	coefficiente sismico orizzontale	kh	=	0.1719	(-)	
	coefficiente sismico verticale	kv	=	0.0859	(-)	
Coefficienti di Spinta	Coeff. di Spinta Attiva sulla parete	ka	=	0.31	(-)	0.310
	componente orizzontale	kah	=	0.300	(-)	
	componente verticale	kav	=	0.08	(-)	
	Coeff. Di Spinta Attiva Sismica sulla parete	kas+	=	0.43	(-)	0.425
	componente orizzontale	kash+	=	0.41	(-)	
	componente verticale	kasv+	=	0.11	(-)	
	Coeff. Di Spinta Attiva Sismica sulla parete	kas-	=	0.45	(-)	0.452
	componente orizzontale	kash-	=	0.44	(-)	
	componente verticale	kasv-	=	0.11	(-)	

$Mt = ½\ Ka_{orizz.} * \gamma*(1±kv)*h^2*h/3$ o $½\ Ka_{orizz.} * \gamma*(1±kv)*h^2*h/2$ (con sisma)

$Mq = ½\ Ka_{orizz}*q*h^2$

$M_{ext} = m+f*h$

$M_{inerzia} = \Sigma Pm_i*b_i*kh$ (solo con sisma)

$Nt = ½\ Ka_{vert.} * \gamma*(1±kv)*h^2$

$Nq = Ka_{vert.}*q*h$

$N_{ext} = v$

$N_{pp+inerzia} = \Sigma Pm_i*(1±kv)$

condizione sismica +

sezione	h	Tt	Tq	T_{ext}	$T_{inerzia}$	T_{tot}
	[m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
d-d	1.90	16.14	3.13	0.00	2.45	21.72
e-e	1.43	9.08	2.35	0.00	1.84	13.26
f-f	0.95	4.03	1.56	0.00	1.22	6.82
g-g	0.48	1.01	0.78	0.00	0.61	2.40

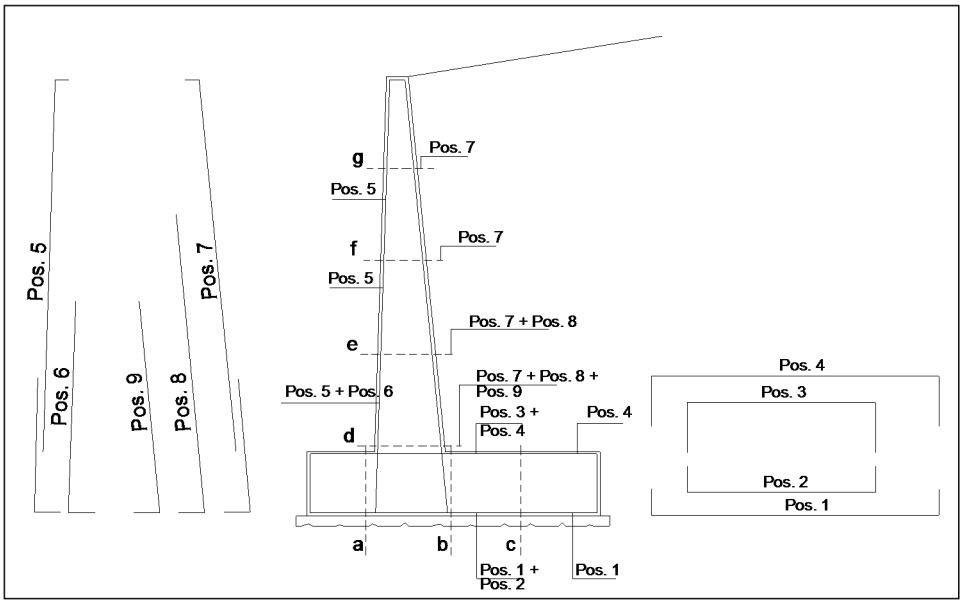
condizione sismica +

sezione	h	Mt	Mq	M_{ext}	$M_{inerzia}$	M_{tot}	Nt	Nq	N_{ext}	$N_{pp+inerzia}$	N_{tot}
	[m]	[kNm/m]	[kNm/m]	[kNm/m]	[kNm/m]	[kNm/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
d-d	1.90	15.33	5.94	0.00	2.33	23.60	4.21	1.63	0.00	15.47	21.32
e-e	1.43	6.47	3.34	0.00	1.31	11.12	2.37	1.22	0.00	11.61	15.20
f-f	0.95	1.92	1.49	0.00	0.58	3.98	1.05	0.82	0.00	7.74	9.61
g-g	0.48	0.24	0.37	0.00	0.15	0.76	0.26	0.41	0.00	3.87	4.54

condizione sismica -

sezione	h	Mt	Mq	M_{ext}	$M_{inerzia}$	M_{tot}	Nt	Nq	N_{ext}	$N_{pp+inerzia}$	N_{tot}
	[m]	[kNm/m]	[kNm/m]	[kNm/m]	[kNm/m]	[kNm/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
d-d	1.90	13.72	6.32	0.00	2.33	22.37	3.77	1.74	0.00	13.03	18.53
e-e	1.43	5.79	3.56	0.00	1.31	10.65	2.12	1.30	0.00	9.77	13.19
f-f	0.95	1.72	1.58	0.00	0.58	3.88	0.94	0.87	0.00	6.51	8.32
g-g	0.48	0.21	0.40	0.00	0.15	0.75	0.24	0.43	0.00	3.26	3.93

SCHEMA DELLE ARMATURE

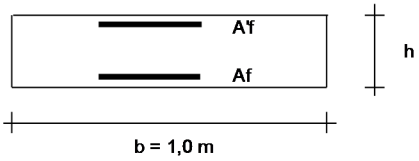


ARMATURE

pos	n°/ml	ϕ	pos	n°/ml	ϕ
1	5.0	12	5	5.0	12
2	5.0	0	6	0.0	0
3	5.0	0	7	5.0	12
4	5.0	12	8	0.0	0
			9	5.0	0

Calcola

VERIFICHE



a-a	pos 1-2-3-4
b-b	pos 1-2-3-4
c-c	pos 1-4
d-d	pos 5-6-7-8-9
e-e	pos 5-7-8
f-f	pos 5-7
g-g	pos 5-7

Sez.	M	N	h	Af	A'f	Mu
(-)	(kNm)	(kN)	(m)	(cm^2)	(cm^2)	(kNm)
a - a	3.55	0.00	0.30	5.65	5.65	62.19
b - b	-25.37	0.00	0.30	5.65	5.65	62.19
c - c	-9.90	0.00	0.30	5.65	5.65	62.19
d - d	23.60	21.32	0.30	5.65	5.65	64.44
e -e	11.12	15.20	0.30	5.65	5.65	63.79
f - f	3.98	9.61	0.30	5.65	5.65	63.20
g - g	0.76	4.54	0.30	5.65	5.65	62.67

coefficienti parziali

		caso	azioni		proprietà del terreno		
			permanenti	temporane e variabili	tan φ'	c'	c_u
			sfavorevoli	sfavorevoli			
SLU	○	caso A1+M1	1.40	1.50	1.00	1.00	1.00
SLU	○	caso A2+M2	1.00	1.30	1.25	1.25	1.40
SLD	○	–	1.00	1.00	1.25	1.25	1.40
def.	◉	SLE	1.00	1.00	1.00	1.00	1.00

Dati Geotecnici (usati per verifiche di stabilità e SLU)

Dati Terrapieno	Angolo di attrito del terrapieno	φ'	=	35.00	(°)		
	Peso Unità di Volume del terrapieno	γ'	=	20.00	(kN/m^3)		
	Angolo di Inclinazione Piano di Campagna	ε	=	0.00	(°)		
	Angolo di attrito terreno-paramento	δ_{muro}	=	17.50	(°)		
	Angolo di attrito terreno-superficie ideale	$\delta_{sup\ id}$	=	17.50	(°)		
Dati Terreno Fondazione	Coesione Terreno di Fondazione	c1'	=	10.00	(kN/m^2)		
	Angolo di attrito del Terreno di Fondazione	φ_1'	=	24.50	(°)		
	Peso Unità di Volume del Terreno di Fondazione	γ_1	=	19.00	(kN/m^3)		
	Peso Unità di Volume del Rinterro della Fondazione	γd	=	20.00	(kN/m^3)		
	Profondità Piano di Posa della Fondazione	H2'	=	1.00	(m)		
	Profondità Falda	Zw	=	100.00	(m)		
Coefficienti di Spinta	Coeff. di Spinta Attiva sulla superficie ideale	ka	=	0.25	(-)	0.246	Valori di Normativa
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale	kas+	=	0.35	(-)	0.347	
	Coeff. Di Spinta Attiva Sismica sulla superficie ideale	kas-	=	0.37	(-)	0.370	
	Coeff. Di Spinta Passiva in Fondazione	kp	=	2.42	(-)	2.417	
	Coeff. Di Spinta Passiva Sismica in Fondazione	kps+	=	2.15	(-)	2.152	
	Coeff. Di Spinta Passiva Sismica in Fondazione	kps-	=	2.10	(-)	2.097	

Carichi Agenti (usati per verifiche di stabilità e allo SLU)

Condizioni Statiche	Sovraccarico Accidentale in condizioni statiche	q	=	28.00	(kN/m^2)
	Forza Orizzontale in Testa in condizioni statiche	f	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni statiche	v	=	0.00	(kN/m)
	Momento in Testa in condizioni statiche	m	=	0.00	(kNm/m)
Condizioni Sismiche	Sovraccarico Accidentale in condizioni sismiche	qs	=	8.00	(kN/m^2)
	Forza Orizzontale in Testa in condizioni sismiche	fs	=	0.00	(kN/m)
	Forza Verticale in Testa in condizioni sismiche	vs	=	0.00	(kN/m)
	Momento in Testa in condizioni sismiche	ms	=	0.00	(kNm/m)

VERIFICHE GEOTECNICHE

FORZE VERTICALI

- Peso del Muro (Pm)

Pm1 =	(B2*H3*γcls)/2	=	0.00	(kN/m)
Pm2 =	(B3*H3*γcls)	=	14.25	(kN/m)
Pm3 =	(B4*H3*γcls)/2	=	0.00	(kN/m)
Pm4 =	(B*H2*γcls)	=	12.75	(kN/m)
Pm5 =	(Bd*Hd*γcls)	=	0.00	(kN/m)
Pm =	Pm1 + Pm2 + Pm3 + Pm4 + Pm5	=	27.00	(kN/m)

- Peso del terreno sulla scarpa di monte del muro (Pt)

Pt1 =	(B5*H3*γ')	=	41.80	(kN/m)
Pt2 =	(0,5*(B4+B5)*H4*γ')	=	0.00	(kN/m)
Pt3 =	(B4*H3*γ')/2	=	0.00	(kN/m)
Pt =	Pt1 + Pt2 + Pt3	=	41.80	(kN/m)

MOMENTI DELLE FORZE VERT. RISPETTO AL PIEDE DI VALLE DEL MURO

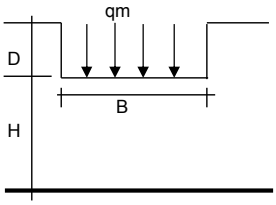
- Muro (Mm)

Mm1 =	Pm1*(B1+2/3 B2)	=	0.00	(kNm/m)
Mm2 =	Pm2*(B1+B2+0,5*B3)	=	6.41	(kNm/m)
Mm3 =	Pm3*(B1+B2+B3+1/3 B4)	=	0.00	(kNm/m)
Mm4 =	Pm4*(B/2)	=	10.84	(kNm/m)
Mm5 =	Pm5*(B - Bd/2)	=	0.00	(kNm/m)
Mm =	Mm1 + Mm2 + Mm3 + Mm4 +Mm5	=	17.25	(kNm/m)

- Terrapieno a tergo del muro

Mt1 =	Pt1*(B1+B2+B3+B4+0,5*B5)	=	48.07	(kNm/m)
Mt2 =	Pt2*(B1+B2+B3+2/3*(B4+B5))	=	0.00	(kNm/m)
Mt3 =	Pt3*(B1+B2+B3+2/3*B4)	=	0.00	(kNm/m)
Mt =	Mt1 + Mt2 + Mt3	=	48.07	(kNm/m)

CEDIMENTO DELLA FONDAZIONE



$\delta = \mu 0 * \mu 1 * qm * B^* / E$ (Christian e Carrier, 1976)

Profondità Piano di Posa della Fondazione		D =	1.00	(m)
		D/B* =	0.70	(m)
		H/B* =	2.38	(m)
Carico unitario medio (qm)	qm = N / (B - 2*e) = N / B*	=	53.89	(kN/mq)
Coefficiente di forma $\mu 0$ = f(D/B)		$\mu 0$ =	0.930	(-)
Coefficiente di profondità $\mu 1$ = f(H/B)		$\mu 1$ =	0.74	(-)
Cedimento della fondazione	$\delta = \mu 0 * \mu 1 * qm * B^* / E$	=	1.77	(mm)

VERIFICA A FESSURAZIONE - CALCOLO SOLLECITAZIONI

FORZE VERTICALI

- Peso del Muro (Pm)

Pm1 =	(B2*H3*γcls)/2	=	0.00	(kN/m)
Pm2 =	(B3*H3*γcls)	=	14.25	(kN/m)
Pm3 =	(B4*H3*γcls)/2	=	0.00	(kN/m)
Pm4 =	(B*H2*γcls)	=	12.75	(kN/m)
Pm5 =	(Bd*Hd*γcls)	=	0.00	(kN/m)
Pm =	Pm1 + Pm2 + Pm3 + Pm4 + Pm5	=	27.00	(kN/m)

- Peso del terreno sulla scarpa di monte del muro (Pt)

Pt1 =	(B5*H3*γ')	=	41.80	(kN/m)
Pt2 =	(0,5*(B4+B5)*H4*γ')	=	0.00	(kN/m)
Pt3 =	(B4*H3*γ')/2	=	0.00	(kN/m)
Pt =	Pt1 + Pt2 + Pt3	=	41.80	(kN/m)

MOMENTI DELLE FORZE VERT. RISPETTO AL PIEDE DI VALLE DEL MURO

- Muro (Mm)

Mm1 =	Pm1*(B1+2/3 B2)	=	0.00	(kNm/m)
Mm2 =	Pm2*(B1+B2+0,5*B3)	=	6.41	(kNm/m)
Mm3 =	Pm3*(B1+B2+B3+1/3 B4)	=	0.00	(kNm/m)
Mm4 =	Pm4*(B/2)	=	10.84	(kNm/m)
Mm5 =	Pm5*(B - Bd/2)	=	0.00	(kNm/m)
Mm =	Mm1 + Mm2 + Mm3 + Mm4 +Mm5	=	17.25	(kNm/m)

- Terrapieno a tergo del muro

Mt1 =	Pt1*(B1+B2+B3+B4+0,5*B5)	=	48.07	(kNm/m)
Mt2 =	Pt2*(B1+B2+B3+2/3*(B4+B5))	=	0.00	(kNm/m)
Mt3 =	Pt3*(B1+B2+B3+2/3*B4)	=	0.00	(kNm/m)
Mt =	Mt1 + Mt2 + Mt3	=	48.07	(kNm/m)

CONDIZIONE STATICA (SLE e FESSURAZIONE)

SPINTE DEL TERRENO E DEL SOVRACCARICO

Spinta totale condizione statica

St = $0{,}5*\gamma'*(H2+H3+H4+Hd)^2*ka$ = 11.91 (kN/m)

Sq = $q*(H2+H3+H4+Hd)*ka$ = 15.16 (kN/m)

componente orizzontale condizione statica

Sth = $St*\cos\delta$ = 11.36 (kN/m)

Sqh = $Sq*\cos\delta$ = 14.46 (kN/m)

componente verticale condizione statica

Stv = $St*\mathrm{sen}\delta$ = 3.58 (kN/m)

Sqv = $Sq*\mathrm{sen}\delta$ = 4.56 (kN/m)

Spinta passiva sul dente

Sp = $\frac{1}{2}*\gamma_1'*Hd^2*kp+(2*c_1'*kp^{0.5}+\gamma 1'*kp*H2')*Hd$ = 0.00 (kN/m)

MOMENTI DELLA SPINTA DEL TERRENO E DEL SOVRACCARICO

condizione statica

MSt1 = Sth*((H2+H3+H4+Hd)/3-Hd) = 8.33 (kN/m)

MSt2 = Stv*B = 6.09 (kN/m)

MSq1 = Sqh*((H2+H3+H4+Hd)/2-Hd) = 15.91 (kN/m)

MSq2 = Sqv*B = 7.75 (kN/m)

MSp = $\gamma_1'*Hd^3*kp/3+(2*c1'*kp0.5+g1'*kp*H2')*Hd^2/2$ = 0.00 (kN/m)

FORZE ESTERNE

Momento dovuto alle Forze Esterne (Mfext)

Mfext1 = m = 0.00 (kNm/m)

Mfext2 = f*(H3 + H2) = 0.00 (kNm/m)

Mfext3 = v*(B1 +B2 + B3/2) = 0.00 (kNm/m)

AZIONI TOTALI SULLA FONDAZIONE

Risultante forze verticali (N)

N = Pm + Pt + v + Stv + Sqv = 76.94 (kN/m)

Momento stabilizzante (Ms)

Ms = Mm + Mt + MSt2 + MSq2 + Mfext3 = 79.16 (kNm/m)

Momento ribaltante (Mr)

Mr = MSt1 + MSq1 + Mfext1+ Mfext2 + MSp = 24.24 (kNm/m)

Risultante dei momenti rispetto al piede di valle (MM)

MM = Ms - Mr = 54.92 (kNm/m)

Momento rispetto al baricentro della fondazione (M)

M = Xc*N - MM = 10.48 (kNm/m)

CALCOLI STATICI

DATI DI PROGETTO:

Caratteristiche dei Materiali

Calcestruzzo — ***Acciaio***

Rck = 40 (MPa) — tipo di acciaio: B450C

fctm = 0.48*Rck$^{1/2}$ = 3.04 (MPa) — fyk = 450 (MPa)

coefficiente omogeneizzazione acciaio n = 15 — Es = 210000 (MPa)

Copriferro (distanza asse armatura-bordo)
c = 5.60 (cm)

Copriferro minimo di normativa (ricoprimento armatura)
c_{min} = 2.00 (cm)

Valore limite di apertura delle fessure
w1 = 0.2 mm = Wk

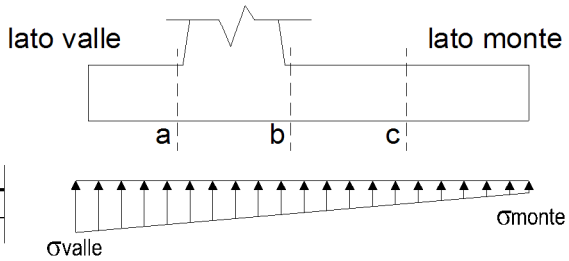
CALCOLO SOLLECITAZIONI SOLETTA DI FONDAZIONE

Reazione del terreno

σvalle = N / A + M / Wgg

σmonte = N / A - M / Wgg

A = b*h = 1.70 (m^2)
Wgg = b*h^2/6 = 0.48 (m^3)

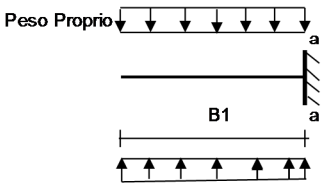


caso	N [kN]	M [kNm]	σvalle [kN/m^2]	σmonte [kN/m^2]
statico	76.94	10.48	67.01	23.51

Mensola Lato Valle - Schema Statico

PP = 7.50 (kN/m) peso proprio soletta fondazione

Ma = σ1*B1^2/2 + (σvalle - σ1)*B1^2/3 - PP*B1^2/2*(1±kv)

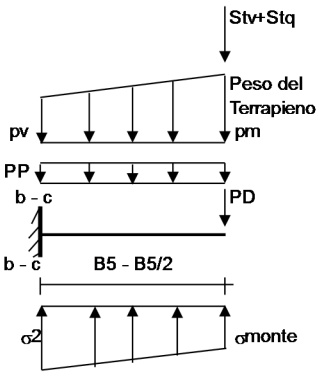


caso	σvalle [kN/m^2]	σ1 [kN/m^2]	Ma [kNm]
statico	67.01	59.33	2.56

Mensola Lato Monte - Schema Statico

PP = 7.50 (kN/m^2) peso proprio soletta fondazione
PD = 0.00 (kN/m) peso proprio dente

pm = 38.00 (kN/m^2)
pvb = 38.00 (kN/m^2)
pvc = 38.00 (kN/m^2)



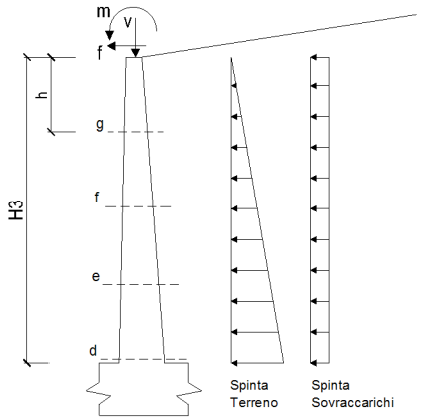
Mb=(σmonte-(pvb+PP)*(1±kv))*B5^2/2+(σ2b-σmonte)*B5^2/6-(pm-pvb))*(1±kv)*B5^2/3+
-(Stv+Sqv)*B5-PD*(1±kv)*(B5-Bd/2)-PD*kh*(Hd+H2/2)+Msp+Sp*H2/2

Mc =(σmonte-(pvc+PP)*(1±kv))*(B5/2)^2/2+(σ2c-σmonte)*(B5/2)^2/6-(pm-pvc)*(1±kv)*(B5/2)^2/3+
-(Stv+Sqv)*(B5/2)-PD*(1±kv)*(B5/2-Bd/2)-PD*kh*(Hd+H2/2)+Msp+Sp*H2/2

caso	σmonte [kN/m^2]	σ2b [kN/m^2]	Mb [kNm]	σ2c [kN/m^2]	Mc [kNm]
statico	23.51	51.66	-16.58	37.58	-7.09

CALCOLO SOLLECITAZIONI PARAMENTO VERTICALE DEL MURO

Azioni sulla parete e Sezioni di Calcolo

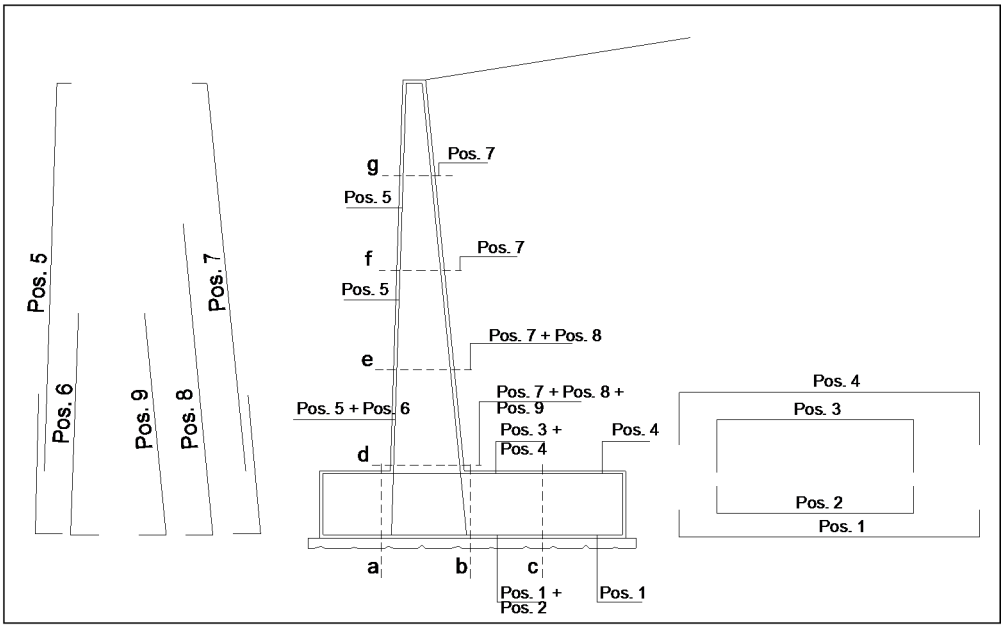


Dati Sismici	Accelerazione sismica		a_g/g	=	0.28	(-)
	Categoria di suolo		S	=	1.25	(-)
	il muro ammette spostamenti? (si/no)	◉ si ○ no				r = 2
	coefficiente sismico orizzontale		kh	=	0.1719	(-)
	coefficiente sismico verticale		kv	=	0.0859	(-)
Coefficienti di Spinta	Coeff. di Spinta Attiva sulla parete		ka	=	0.25	(-) 0.246
	componente orizzontale		kah	=	0.23	(-)
	componente verticale		kav	=	0.07	(-)
	Coeff. Di Spinta Attiva Sismica sulla parete		kas+	=	0.35	(-) 0.347
	componente orizzontale		kash+	=	0.33	(-)
	componente verticale		kasv+	=	0.10	(-)
	Coeff. Di Spinta Attiva Sismica sulla parete		kas-	=	0.37	(-) 0.370
	componente orizzontale		kash-	=	0.35	(-)
	componente verticale		kasv-	=	0.11	(-)

condizione statica

sezione	h	Mt	Mq	M_{ext}	M_{tot}	Nt	Nq	N_{ext}	N_{pp}	N_{tot}
	[m]	[kNm/m]	[kNm/m]	[kNm/m]	[kNm/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]
d-d	1.90	5.37	11.86	0.00	17.23	2.67	3.94	0.00	14.25	20.86
e-e	1.43	2.26	6.67	0.00	8.94	1.50	2.95	0.00	10.69	15.14
f-f	0.95	0.67	2.97	0.00	3.64	0.67	1.97	0.00	7.13	9.76
g-g	0.48	0.08	0.74	0.00	0.83	0.17	0.98	0.00	3.56	4.71

SCHEMA DELLE ARMATURE

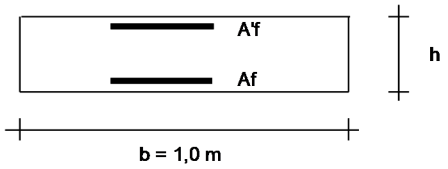


ARMATURE

pos	n°/ml	ϕ	pos	n°/ml	ϕ
1	5.0	12	5	5.0	12
2	5.0	0	6	0.0	0
3	5.0	0	7	5.0	12
4	5.0	12	8	0.0	0
			9	5.0	0

Calcola

VERIFICHE



a-a	pos 1-2-3-4
b-b	pos 1-2-3-4
c-c	pos 1-4
d-d	pos 5-6-7-8-9
e-e	pos 5-7-8
f-f	pos 5-7
g-g	pos 5-7

Condizione Statica

Sez.	M	N	h	Af	A'f	σc	σf	wk	w_{amm}
(-)	(kNm)	(kN)	(m)	(cm^2)	(cm^2)	(N/mm^2)	(N/mm^2)	(mm)	(mm)
a - a	2.56	0.00	0.30	5.65	5.65	0.40	20.13	0.021	0.200
b - b	-16.58	0.00	0.30	5.65	5.65	2.61	130.26	0.139	0.200
c - c	-7.09	0.00	0.30	5.65	5.65	1.12	55.72	0.059	0.200
d - d	17.23	20.86	0.30	5.65	5.65	2.68	115.91	0.121	0.200
e -e	8.94	15.14	0.30	5.65	5.65	1.38	56.17	0.058	0.200
f - f	3.64	9.76	0.30	5.65	5.65	0.55	19.62	0.020	0.200
g - g	0.83	4.71	0.30	5.65	5.65	0.11	2.40	0.002	0.200

(n.b.: M+ tende le fibre di intradosso, M- tende le fibre di estradosso)

Verifica a taglio sezione b-b

Elementi senza armatura trasversale a taglio

- Verifica del conglomerato

VRd =[0,18*k*(100*ρ1*f_{ck})$^{1/3}$/γc+0,15*σcp]*bw*d =			**107.36**	kN
VEd =	**41.43**	**kN**	ok	
con:				
K = 1+(200/d)$^{1/2}$ =	1.933		$\leq$ 2	
Rck =	40	N/mm^2		
v_{min} = 0,035*$k^{3/2}$*$fck^{1/2}$ =	0.542	N/mm^2		
fck =0,83*Rck =	33.2	N/mm^2		
fcd =α_{cc}*fck/γc =	18.81	N/mm^2		
ρ1 = Asl/(bw*d) =	0.00246		$\leq$ 0,02	
d =	230	mm		
H =	300	mm		
bw =	1000	mm		
Asl =	565	mm^2	(1ϕ12/20)	
N_{Ed} =	**0.00**	kN		
σ_{cp} =N_{Ed}/Ac =	0.000	N/mm^2	$\leq$ 0,2*fcd	

Verifica a taglio sezione d-d				
Elementi senza armatura trasversale a taglio				
- Verifica del conglomerato				
VRd =[0,18*k*(100*ρ1*f_{ck})$^{1/3}$/γc+0,15*σcp]*bw*d =			**107.36**	kN
VEd =	**31.62**	**kN**	ok	
con:				
K = 1+(200/d)$^{1/2}$ =	1.933		$\leq$ 2	
Rck =	40	N/mm^2		
v_{min} = 0,035*k$^{3/2}$*fck$^{1/2}$ =	0.542	N/mm^2		
fck =0,83*Rck =	33.2	N/mm^2		
fcd =α_{cc}*fck/γc =	18.81	N/mm^2		
ρ1 = Asl/(bw*d) =	0.00246		$\leq$ 0,02	
d =	230	mm		
H =	300	mm		
bw =	1000	mm		
Asl =	565	mm^2	(1ϕ12/20)	
N_{Ed} =	**0.00**	kN		
σ_{cp} =N_{Ed}/Ac =	0.000	N/mm^2	$\leq$ 0,2*fcd	