

COMMITTENTE:



DIREZIONE LAVORI:



APPALTATORE:



| | | |
|---------------------------------------|---------------------|---|
| PROGETTAZIONE: | PROGETTISTA: | DIRETTORE DELLA PROGETTAZIONE |
| RAGGRUPPAMENTO TEMPORANEO PROGETTISTI | Ing. G.S. KALAMARAS | Ing. PIETRO MAZZOLI |
| | | Responsabile integrazione fra le varie prestazioni specialistiche |

PROGETTO ESECUTIVO

ITINERARIO NAPOLI-BARI

RADDOPPIO TRATTA CANCELLO-BENEVENTO

1° LOTTO FUNZIONALE CANCELLO-FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI

GALLERIA MONTE AGLIO

USCITA DI EMERGENZA KM 5+503.917

Relazione tecnica e di calcolo

| | |
|---|--------|
| APPALTATORE | SCALA: |
| Consorzio CFT IL DIRETTORE TECNICO Geom. C. Bianchi 10/10/2018 | - |

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA PROGR. REV.

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | F | 1 | N | 0 | 1 | E | Z | Z | C | L | G | N | 0 | 8 | 0 | 0 | 0 | 0 | 1 | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Rev. | Descrizione | Redatto | Data | Verificato | Data | Approvato | Data | Autorizzato Data |
|------|-------------------------------|----------|------------|--------------|------------|------------|------------|------------------|
| A | Emissione | L. Gallo | 10/07/2018 | G. Kalamaras | 10/07/2018 | P. Mazzoli | 10/07/2018 | G. Kalamaras |
| B | Rev. Istruttoria ITF 29/08/18 | L. Gallo | 13/09/2018 | G. Kalamaras | 13/09/2018 | P. Mazzoli | 13/09/2018 | |
| C | Recepimento istruttoria | L. Gallo | 10/10/2018 | G. Kalamaras | 10/10/2018 | P. Mazzoli | 10/10/2018 | |
| | | | | | | | | 10/10/2018 |

| | |
|---|-----------|
| File: IF1N.0.1.E.ZZ.CL.GN.08.0.0.001.C.docx | n. Elab.: |
|---|-----------|

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|--|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|---------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>2 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 2 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 2 di 73 | | | | | | | | |

Indice

| | | |
|----------|---|-----------|
| 1 | PREMESSA | 3 |
| 1.1 | RIFERIMENTI | 3 |
| 1.1.1 | NORMATIVA | 3 |
| 1.1.2 | RACCOMANDAZIONI E SPECIFICHE TECNICHE | 3 |
| 1.2 | CARATTERISTICHE DEI MATERIALI | 3 |
| 2 | DESCRIZIONE DELL'OPERA | 7 |
| 3 | CARATTERIZZAZIONE GEOMECCANICA | 9 |
| 4 | FASE DI DIAGNOSI | 10 |
| 5 | FASE DI TERAPIA | 11 |
| 5.1 | DESCRIZIONE DEL NODO DI INNESTO | 11 |
| 5.2 | DESCRIZIONE DELLE SEZIONI TIPO | 14 |
| 5.2.1 | SEZIONE TIPO A2 CAMERONE DI MANOVRA | 14 |
| 5.2.2 | SEZIONE TIPO A2 GALLERIA DI LINEA | 15 |
| 5.2.3 | SEZIONE TIPO CAMERA DI ESODO IN CALCARI | 15 |
| 5.3 | ANALISI E VERIFICA DEL NODO DI INNESTO | 15 |
| 5.3.1 | DESCRIZIONE DEL METODO DI CALCOLO ADOTTATO | 15 |
| 5.3.2 | MODELLO DI CALCOLO | 17 |
| 5.3.3 | RISULTATI OTTENUTI IN TERMINI DI SPOSTAMENTI | 21 |
| 5.3.4 | VERIFICHE STRUTTURALI DEL SOSTEGNO DI PRIMA FASE | 23 |
| 5.3.5 | VERIFICHE STRUTTURALI DEL RIVESTIMENTO DEFINITIVO | 33 |
| 5.3.6 | VERIFICHE DELLA BULLONATURA | 71 |

ALLEGATI

- ALLEGATO 1: SOLLECITAZIONI E VERIFICHE DEI SOSTEGNI DI PRIMA FASE
- ALLEGATO 2: SOLLECITAZIONI NEL RIVESTIMENTO DEFINITIVO

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|--|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|---------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>3 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 3 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 3 di 73 | | | | | | | | |

1 PREMESSA

La presente relazione è redatta nell'ambito del Progetto Esecutivo per il raddoppio della linea Canello-Benevento sull'itinerario Napoli-Bari e in particolare si riferisce al primo lotto funzionale compreso tra Canello e la Stazione di Frasso Telesino/Dugenta e variante alla linea Roma-Napoli via Cassino nel comune di Maddaloni.

L'estensione del tracciato in progetto è di circa 16,5Km; nell'ambito di questa tratta è presente la galleria Monte Aglio, una galleria naturale a doppio binario lunga oltre 4Km. Oltre alla galleria principale (di linea), sono previste una serie di gallerie secondarie che ospitano le vie di fuga.

La presente relazione di calcolo illustra il dimensionamento delle sezioni tipologiche di scavo e consolidamento previste nell'ambito dell'innesto della galleria finestra al km 5+503.917 con la galleria di linea. In particolare sono trattati i seguenti aspetti:

- valutazione del comportamento atteso del cavo in corrispondenza dell'innesto;
- modello di calcolo messo a punto per la verifica delle sezioni e relative verifiche geotecniche e strutturali degli elementi che compongono le sezioni tipo.

1.1 RIFERIMENTI

1.1.1 NORMATIVA

Le verifiche statiche e la redazione della presente relazione sono state eseguite in conformità alle seguenti Normative:

- Decreto Ministero Infrastrutture 14 gennaio 2008, "Nuove norme tecniche per le costruzioni".
- Circolare n.617 del 2 febbraio 2009 Ministero Infrastrutture e Trasporti, Istruzioni per l'applicazione delle "Nuove norme tecniche per le costruzioni".

1.1.2 RACCOMANDAZIONI E SPECIFICHE TECNICHE

- Specifica tecnica ITALFERR cod. PPA0002403 rev. A "Linee guida per la progettazione geotecnica delle gallerie naturali".

1.2 CARATTERISTICHE DEI MATERIALI

CALCESTRUZZI

SPRITZ-BETON FIBRORINFORZATO:

- Rispondenza ai requisiti delle norme UNI EN 14487-1 e UNI EN 14487-2
- Classe di resistenza: C20/25
- Resistenza a compressione alle brevi stagionature:
 - a 24 ore $\geq 10\text{MPa}$
 - a 48 ore $\geq 13\text{MPa}$
- Curva granulometrica degli aggregati di tipo continuo con diametro massimo di 6÷8mm
- Classe di consistenza: S5
- Dosaggio in fibre: 35kg/m^3
- Energia assorbita: $\geq 500\text{joule}$ (da prove di punzonamento eseguite su piastre in cls fibrorinforzato)

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|--|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|---------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>4 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 4 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 4 di 73 | | | | | | | | |

- Fibre di acciaio a basso contenuto in carbonio da filo trafilato (tipo A1), diametro equivalente $\varnothing \leq 0.7\text{mm}$ e resistenza a trazione $f_{yk} = 800\text{MPa}$ (UNI 11037).

CALCESTRUZZO MAGRO:

- Classe $R_{ck} = 15\text{MPa}$ (C12/15)
- Classe di esposizione ambientale X0 (UNI EN 206-1)

CALCESTRUZZO STRUTTURALE (CALOTTA E PIEDRITTI ARMATI):

- Classe $R_{ck} = 30\text{MPa}$ (C25/30)
- Classe di esposizione ambientale XC2 (UNI EN 206-1)
- Diametro massimo degli aggregati: 32mm
- Rapporto massimo acqua/cemento: 0.60
- Classe di consistenza: S4

CALCESTRUZZO STRUTTURALE (ARCO ROVESCIO E MURETTE):

- Classe $R_{ck} = 37\text{MPa}$ (C30/37)
- Classe di esposizione ambientale XA1 (UNI EN 206-1)
- Diametro massimo degli aggregati: 32mm
- Rapporto massimo acqua/cemento: 0.55
- Classe di consistenza: S3-S4

MARCIAPIEDI E GETTO DI REGOLAMENTO:

- Classe $R_{ck} = 30\text{MPa}$ (C25/30)
- Classe di esposizione ambientale X0 (UNI EN 206-1)
- Diametro massimo degli aggregati: 32mm
- Rapporto massimo acqua/cemento: 0.60
- Classe di consistenza: S3-S4

ACCIAI

ACCIAIO:

- Armature: B450C controllato in stabilimento
- Centine e profilato: S275 o superiore
- Piastre: S275 o superiore
- Piastrame e travi di collegamento tiranti: S275 o superiore
- Presostegno al contorno: S355 (UNI10025)
- Catene: B450C controllato in stabilimento
- Bulloni piastre di unione centine: classe 8.8 o superiori (UNI3740/74)

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|--|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|---------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>5 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 5 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 5 di 73 | | | | | | | | |

COPRIFERRO:

- 5cm (± 0.5 cm)

INTERVENTI DI CONSOLIDAMENTO IN FASE DI SCAVO

ELEMENTI IN VETRORESINA STRUTTURALI:

- TUBI
 - Diametro esterno/interno: $\varnothing 60/40$ mm ad aderenza migliorata
 - Spessore medio: 10mm
 - Densità: $1.8t/m^3$
 - Resistenza a trazione: $f_{yk} = 450$ MPa
 - Resistenza al taglio: $\tau = 85$ MPa
 - Contenuto in vetro: 60%, pressione di scoppio: 80bar
 - Diametro di perforazione > 100 mm
- PROFILATI PIATTI
 - N° 3 piatti 40mm, sp. 6mm ad aderenza migliorata ottenuta o con riporto di sabbia quarzosa polimerizzata a caldo o con impronta negativa sul profilo strutturale, collegati al contorno di un tubo in PE PN10, $\varnothing 22$ mm (valvolato 2v/m per sezione C1bis)
 - Densità: $1.9 t/m^3$
 - Resistenza a trazione: $f_{yk} = 1000$ MPa
 - Resistenza al taglio: $\tau = 140$ MPa
 - Contenuto in vetro: 60%
 - Diametro di perforazione > 100 mm
- ELEMENTO DI RINFORZO TIPO P.E.R. GROUND H700
 - Tubi in vetroresina $\varnothing 60/40$ mm corrugati
 - Resistenza a trazione: $f_{yk} > 450$ MPa
 - Resistenza al taglio: $\tau > 120$ MPa
 - Modulo elastico, $E_v = 20000$ MPa
 - Guaina tecnica espandibile
 - Massa areica: $350g/m^2$
 - Resistenza a trazione: 24kN/m

BULLONI RADIALI IN GALLERIA:

- bulloni a resistenza continua tipo SWELLEX Pm24
- diametro di perforazione: $\varnothing = 48$ mm
- carico di snervamento: $R_y \geq 200$ kN
- carico di rottura: $R_t \geq 240$ kN
- piastra di ancoraggio bombata tipo SWELLEX P24C, dimensioni 152x152mm

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|--|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|---------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>6 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 6 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 6 di 73 | | | | | | | | |

IMPERMEABILIZZAZIONE E DRENAGGI

DRENAGGI IN AVANZAMENTO IN FASE DI SCAVO:

- Tubi microfessurati in PVC ad alta resistenza (4.5MPa alla trazione), diametro esterno $\varnothing=60\text{mm}$, sp. 5mm, perforo = 100mm, rivestiti con TNT
- I primi 10.00m da bocca foro dovranno essere ciechi

IMPERMEABILIZZAZIONE IN PVC:

- Teli per impermeabilizzazione: sp. = $2\pm 0.5\text{mm}$, g = 3g/cm^2
- Strato di tessuto non tessuto di 400gr/m^2 a filo continuo

CORDOLINO IDROESPANSIVO DI TENUTA IDRAULICA (WATER-STOP):

- Composizione miscela in peso: 25% gomma butilica, 75% bentonite di sodio
- Dimensione: 20x25mm
- Peso: 0.780kg/m
- Temperatura di applicazione da -15°C a $+50^{\circ}\text{C}$
- Stabilità alle soluzioni saline ed aggressive e resistenza all'azione inibente degli ioni calcio e magnesio
- Espansione a contatto con l'acqua: 6 volte il volume iniziale minimo senza perdita di coesione di massa e con reperibilità del fenomeno certificata per numerosi cicli di idratazione/essiccamento

SISTEMA DI IMPERMEABILIZZAZIONE COMPARTIMENTATO:

- Tubi in PVC-P ri-iniettabili tipo MAPEI IDROSTOP MULTI $\varnothing 11/19\text{mm}$
- Teli per impermeabilizzazione in PVC-P: sp. = $2\pm 0.5\text{mm}$, g = 3g/cm^2
- Strato di tessuto non tessuto di 400gr/m^2 a filo continuo
- Water stop in PVC-P, larghezza 400mm, spessore 4mm con 6 scanalature di altezza 30mm, tipo MAPEPLAN WATERSTOP
- Scatole 90x90x40mm in PVC per terminali tubi ri-iniettabili
- Valvole di iniezione in PVC-P tipo MAPEPLAN, valvola di collaudo/iniezione
- Tubi in PVC $\varnothing 6/8\text{mm}$ per iniezione/collaudo valvole

TUBI:

- Tubi micro fessurati in PVC/tubo di scarico cieco in corrispondenza della linea al piede dell'impermeabilizzazione, $\varnothing_{\text{interno}} > 150\text{mm}$ (con caratteristiche meccaniche conformi alle norme DIN 1187).

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|---------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>7 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 7 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 7 di 73 | | | | | | | | |

2 DESCRIZIONE DELL'OPERA

La galleria di linea denominata "Monte Aglio" ha una lunghezza complessiva di 4196m, di cui 337m in artificiale e 3859m in naturale da scavare con il metodo tradizionale.

La galleria di linea si compone delle seguenti tratte:

Tabella 1: sintesi delle tratte di cui si compone la galleria di linea.

| pk inizio | pk fine | lunghezza [m] | galleria | sezione di intradosso |
|-----------|----------|---------------|-------------|-----------------------|
| 2+780.00 | 2+881.00 | 101 | artificiale | scatolare |
| 2+881.00 | 3+000.00 | 119 | artificiale | policentrica |
| 3+000.00 | 6+859.00 | 3859 | naturale | monocentrica |
| 6+859.00 | 6+917.00 | 58 | artificiale | policentrica |
| 6+917.00 | 6+976.00 | 59 | artificiale | scatolare |

L'imbocco lato Canello si trova a pk 2+780.00 nel comune di Maddaloni, mentre l'imbocco lato Benevento si trova a pk 6+976.00 nel comune di Valle di Maddaloni.

L'imbocco lato Canello si trova a circa 63m s.l.m., mentre l'imbocco lato Benevento si trova a circa 117m s.l.m., con una pendenza di circa il 1.3% in discesa da Benevento verso Canello.

Le coperture massime previste per la tratta in naturale sono di circa 306m e sono localizzate nella tratta centrale della galleria, mentre agli imbocchi si registrano le coperture minime.

Il progetto prevede 4 uscite di emergenza lungo il tracciato in sotterraneo da utilizzare come vie di fuga per l'evacuazione e l'accesso dei mezzi di soccorso:

- 1° uscita di emergenza a pk 3+777.276 con collegamento diretto verso l'esterno mediante una galleria finestra di lunghezza 330m. Questa tratta di galleria è utilizzata anche in fase costruttiva al fine di creare una nuova finestra di accesso alla galleria di linea ed utilizzare così più fronti di avanzamento per lo scavo della galleria principale.
- 2° uscita di emergenza ubicata a pk 4+777.531 collegata mediante un cunicolo alla terza uscita di emergenza da cui si accede all'esterno mediante una tratta di galleria finestra.
- 3° uscita di emergenza a pk 5+503.917, collegata direttamente all'esterno con una galleria finestra di lunghezza pari a 550m circa. Alla galleria finestra si interseca anche il cunicolo di emergenza che collega la seconda e quarta uscita.
- 4° uscita di emergenza a pk 5+978.240 è collegata alla finestra di uscita mediante il cunicolo di lunghezza complessiva di 1226m posto a circa 22 di distanza dall'asse della galleria principale di linea.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|---------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 8 di 73 |

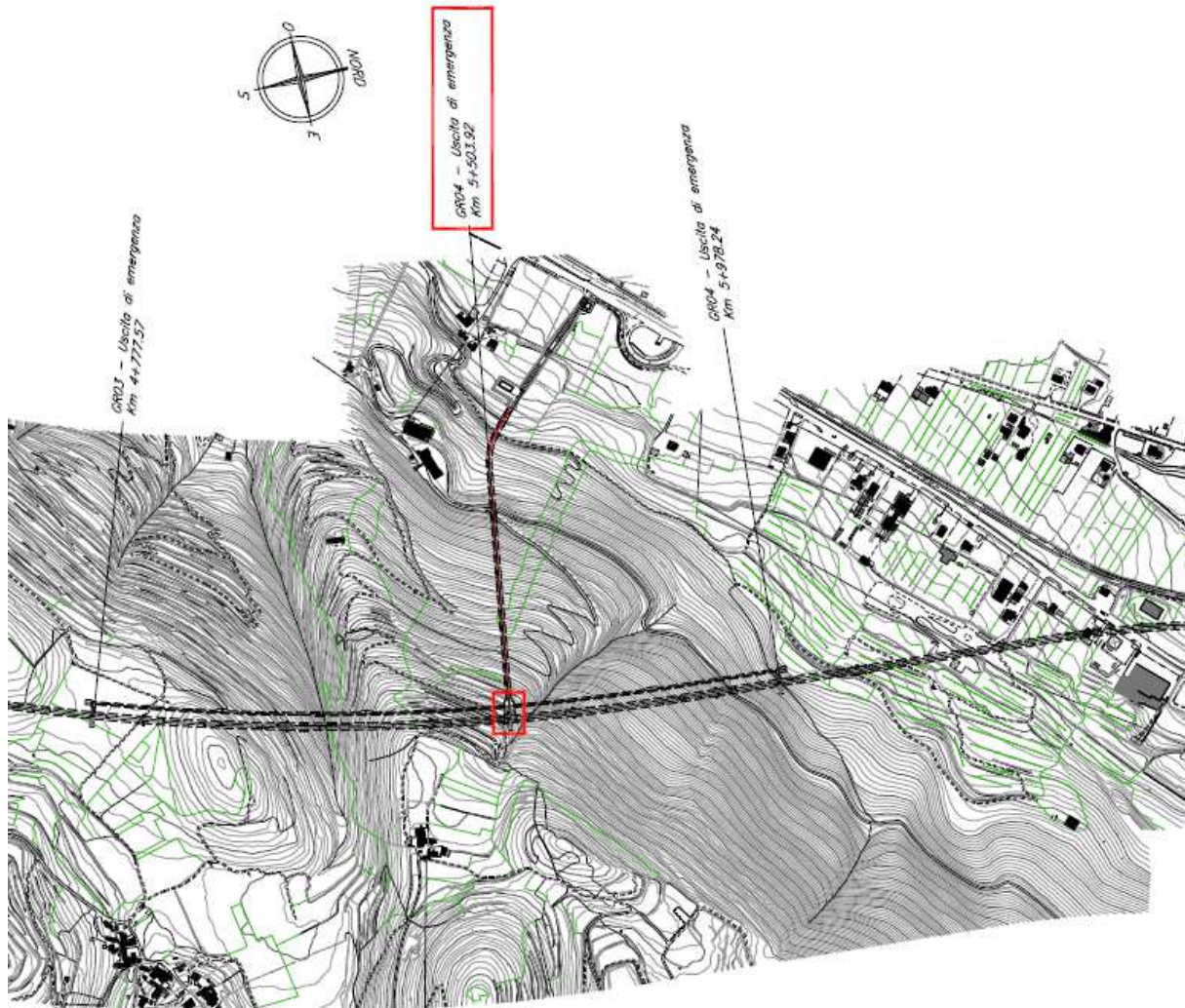


Figura 2.1: Stralcio della planimetria della galleria di linea con indicazione del nodo di innesto alla progressiva 5+503.917.

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|---------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>9 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 9 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 9 di 73 | | | | | | | | |

3 CARATTERIZZAZIONE GEOMECCANICA

Nella zona di innesto alla progressiva 5+503.917 le formazioni geologiche interessate dallo scavo della galleria sono costituite da calcari caratterizzati da buone proprietà meccaniche, con una copertura di 270 m circa. Per maggiori dettagli relativi all'analisi dei dati e alla stima dei parametri geotecnici e geomeccanici si rimanda al documento *Relazione geotecnica e di calcolo Galleria Monte Aglio*.

Nella tabella seguente sono riassunti i parametri geotecnici utilizzati per le analisi.

Tabella 2: parametri geomeccanici dei calcari.

| Unità | GSI | H [m] | σ_0 [MPa] | γ [kN/m ³] | c'_k [kPa] | ϕ'_k [°] | $C_{u,k}$ [kPa] | E_m [MPa] |
|-------|-----|-------|------------------|-------------------------------|--------------|---------------|-----------------|-------------|
| RDO | 45 | 270 | 6.75 | 25 | 880 | 38 | - | 6000 |

dove:

- H è la copertura della galleria
- σ_0 è la tensione geostatica a livello del cavo
- γ è il peso specifico del terreno/roccia
- c'_k è la coesione efficace
- ϕ'_k è l'angolo di attrito efficace
- $C_{u,k}$ è la coesione non drenata
- E_m è il modulo dell'ammasso roccioso.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>10 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 10 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 10 di 73 | | | | | | | | |

4 FASE DI DIAGNOSI

Per la valutazione del comportamento deformativo in corrispondenza dell'innesto, si è utilizzato il metodo delle linee caratteristiche, che per la posizione specifica individua un comportamento dell'ammasso roccioso allo scavo di tipo elastico (A), poiché risulta $\sigma_c / 1.2 p_c$ con $\sigma_c = 3.61 / 1.2 \times 1.90$ MPa. Nella figura seguente è riportato l'andamento della linea caratteristica per l'innesto alla progressiva 5+503.917 (l'eventuale adozione del rinforzo del fronte è funzione delle effettive caratteristiche geomeccaniche dell'ammasso roccioso riscontrate durante lo scavo).

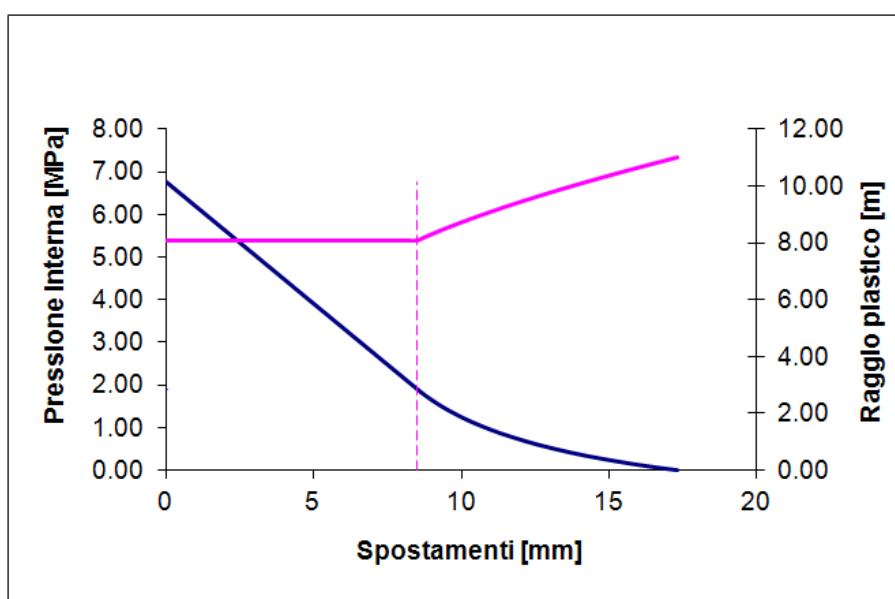


Figura 4.1: Andamento della linea caratteristica e del raggio plastico in corrispondenza dell'innesto alla progressiva 5+503.917.

5 FASE DI TERAPIA

5.1 DESCRIZIONE DEL NODO DI INNESTO

Nelle successive figure sono riportate la planimetria della zona di innesto del camerone di manovra con il cunicolo di emergenza e con la galleria di linea e la camera di esodo negli assi principali, le fasi di installazione e le centine impiegate per la realizzazione del sostegno di prima fase. Per maggiori dettagli si rimanda agli elaborati grafici.

PLANIMETRIA DI INQUADRAMENTO scala 1:200

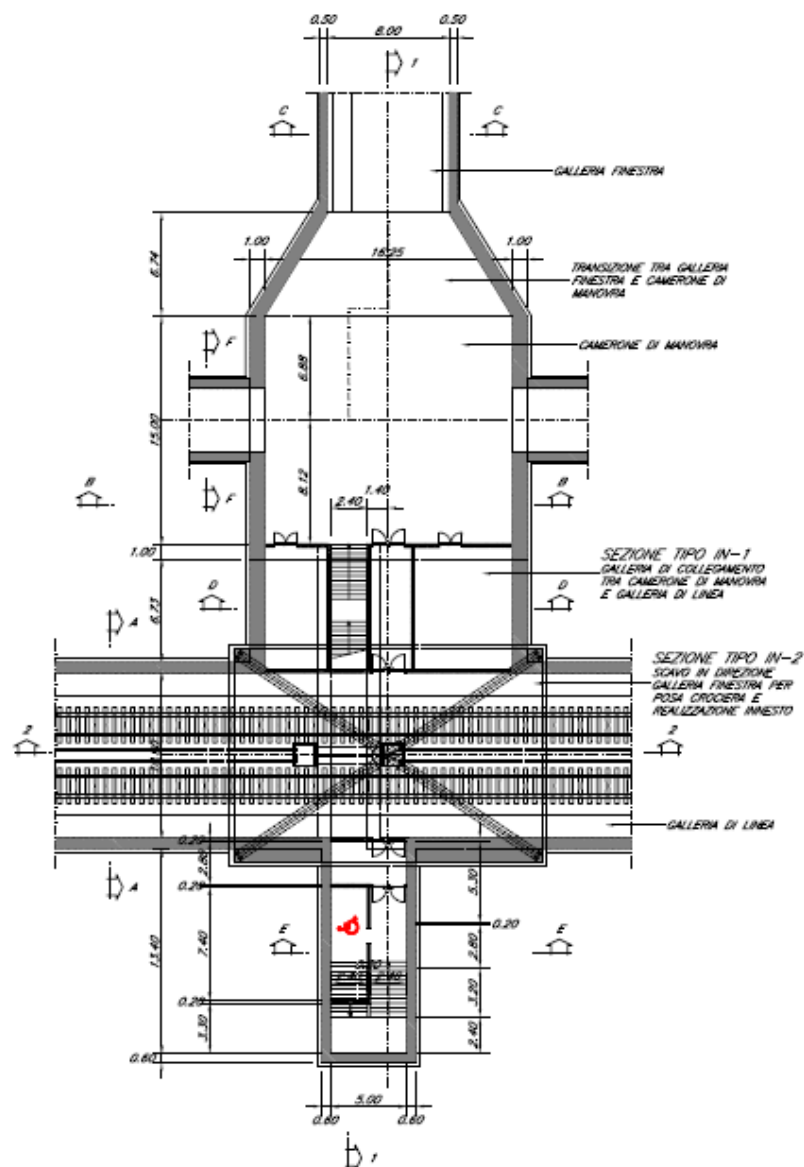
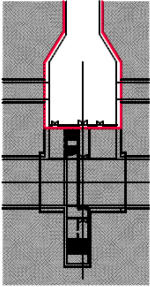


Figura 5.1: planimetria dell'innesto del camerone di manovra con il cunicolo di emergenza, con la galleria di linea e con la camera di esodo alla progressiva 5+503.917.

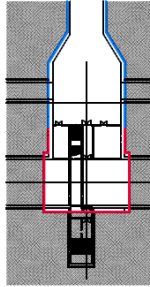
|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>12 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 12 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 12 di 73 | | | | | | | | |

Nelle figure seguenti si descrivono le fasi di realizzazione dei sostegni di prima fase e dei rivestimenti definitivi delle gallerie che costituiscono l'innesto.

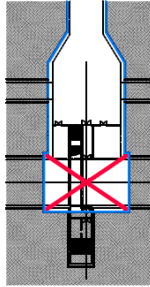
MACROFASE 1 scala 1:500
SCAVO GALLERIA FINISTRA, TRONCIZIONE E CAMERONE DI MANOVRA



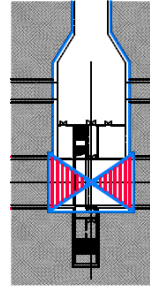
MACROFASE 2 scala 1:500
SCAVO GALLERIA DI COLLEGAMENTO (IN.01) E DELLA SEZIONE ALLARGATA PER L'INNESTO (IN.02)



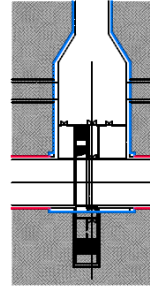
MACROFASE 3 scala 1:500
POSA DELLA CENTINA A CROCIERA CHIODATA



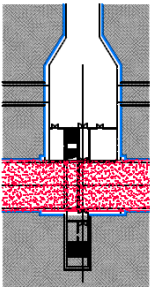
MACROFASE 4 scala 1:500
SCAVO IN DIREZIONE DELLA GALLERIA DI LINEA IN SEZIONE DI INNESTO (IN.03) CON TAGLIO DELLE CENTINE INTERFERENTI E POSA DELLA CENTINE DI COMPLETAMENTO CHIODATE



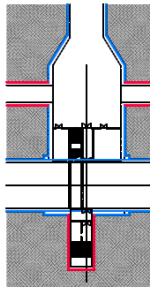
MACROFASE 5 scala 1:500
SCAVO IN DIREZIONE DELLA GALLERIA DI LINEA IN SEZIONE CORRENTE



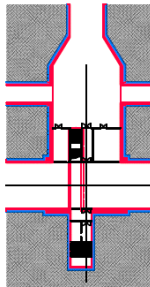
MACROFASE 6 scala 1:500
SCAVO E GETTO DELL'ARCIO ROVESCIO GALLERIA DI LINEA



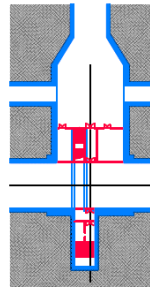
MACROFASE 7 scala 1:500
SCAVO CAMERA DI ESODO SCAVO DEL CONNECTORE DI SPOLLAMENTO



MACROFASE 8 scala 1:500
GETTO DEI RIVESTIMENTI DEFINITIVI ARCHI ROVESCI, PIEDRITTI E CALOTTA. SUB FASE 1 GETTO ARCHI ROVESCI. SUB FASE 2 GETTO PIEDRITTI E CALOTTA



MACROFASE 9 scala 1:500
ESECUZIONE DELLE OPERE EDILI DI COMPLETAMENTO IN PROGETTO



MACROFASE 10 scala 1:500
ESECUZIONE DELLE OPERE DI ARMAMENTO FERROVIARIO IN PROGETTO

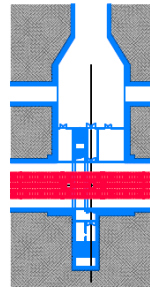
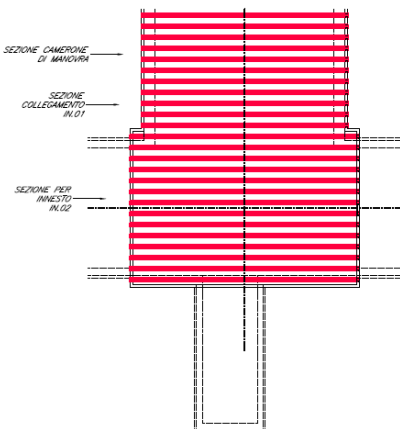
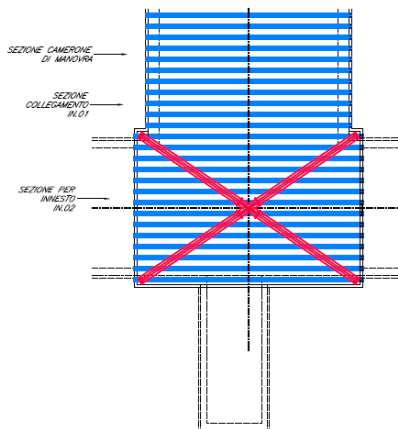


Figura 5.2: zona di innesto del camerone di manovra e della camera di esodo con la galleria di linea alla progressiva 5+503.917 – fasi di realizzazione.

INNESTO – SUBFASE 1
SCAVO GALLERIA FINISTRA – CAMERONE DI MANOVRA SEZIONE DI COLLEGAMENTO IN.01 E SEZIONE PER INNESTO IN.02



INNESTO – SUBFASE 2
POSA IN OPERA CENTINE A CROCIERA ANCORAGGIO CON CHIODI TIPO SWELLEX L=8.0m



INNESTO – SUBFASE 3
SCAVO IN DIREZIONE DELLA GALLERIA DI LINEA (SEZIONE IN.03) CON TAGLIO DELLE CENTINE INTERFERENTI DELLA SEZIONE PER INNESTO IN.02 E POSA DELLE CENTINE DI COMPLETAMENTO DELLA SEZIONE IN.03

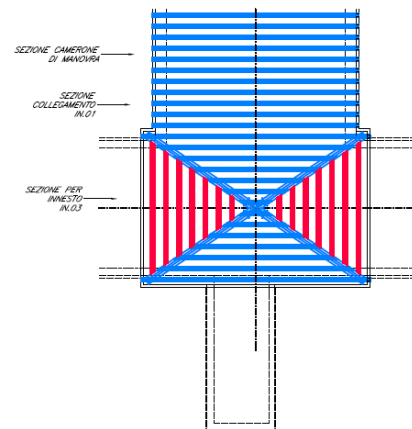


Figura 5.3: dettaglio delle fasi di montaggio del sostegno di prima fase in corrispondenza dell'innesto del camerone di manovra con la galleria di linea alla progressiva 5+503.917.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 13 di 73 |

Nelle figure seguenti si illustrano le centine impiegate per la realizzazione del sostegno di prima fase nella zona di innesto IN02.

Le centine a crociera, costituite da due profili HEB220, sono installate nella zona di innesto tra la galleria di linea e il camerone di manovra. Esse sono ancorate all'ammasso roccioso mediante chiodi tipo "Swellex Pm24" di lunghezza $L=4.50\text{m}$ e perforo $\varnothing 48\text{ mm}$. In funzione delle caratteristiche dell'ammasso riscontrate in fase di scavo, la lunghezza dei chiodi potrà variare da 4.5m a 6.0m.

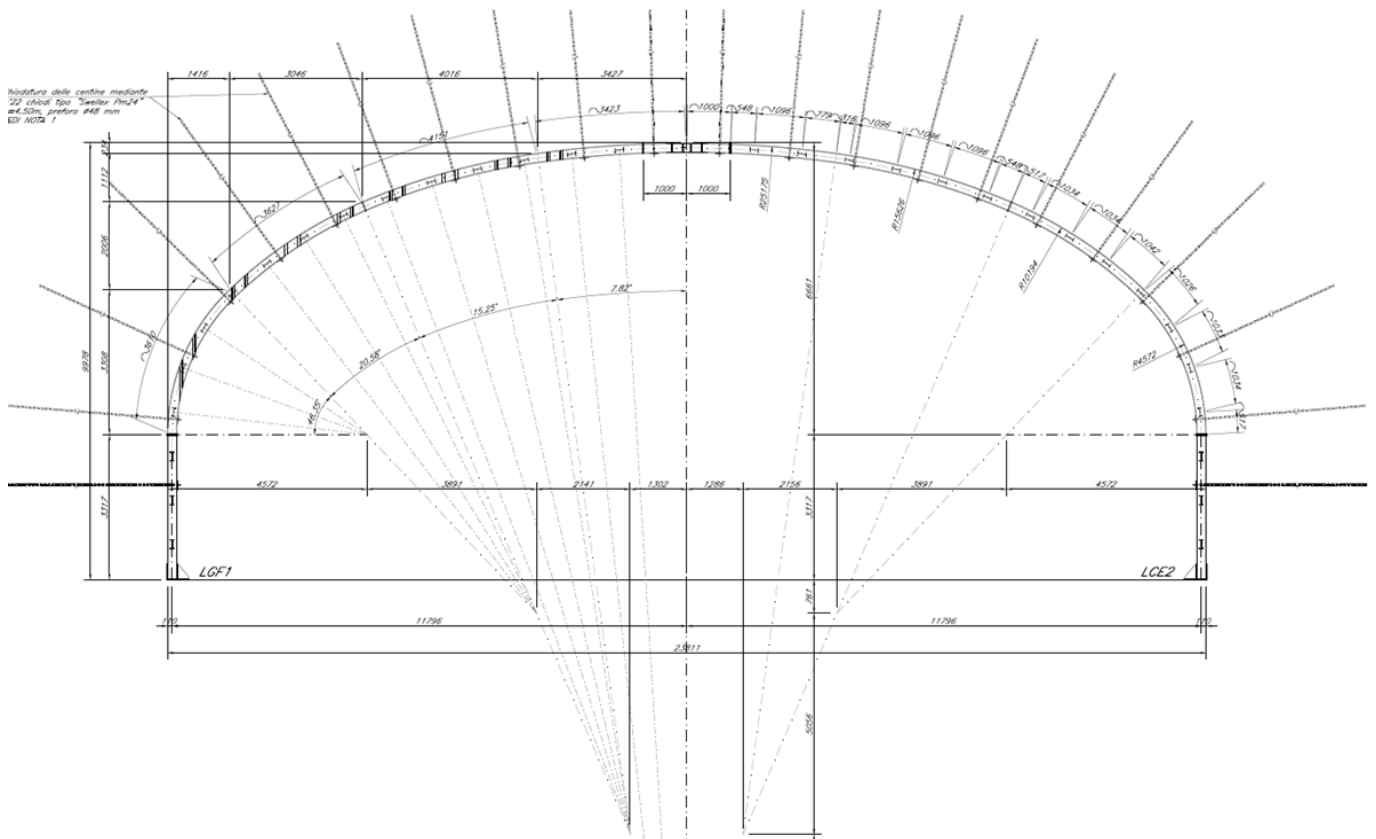


Figura 5.4: centina a crociera CC1 - CC2 utilizzata nella sezione di innesto IN02.

RELAZIONE TECNICA E DI CALCOLO

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF1N

01 E ZZ

CL

GN0800 001

C

14 di 73

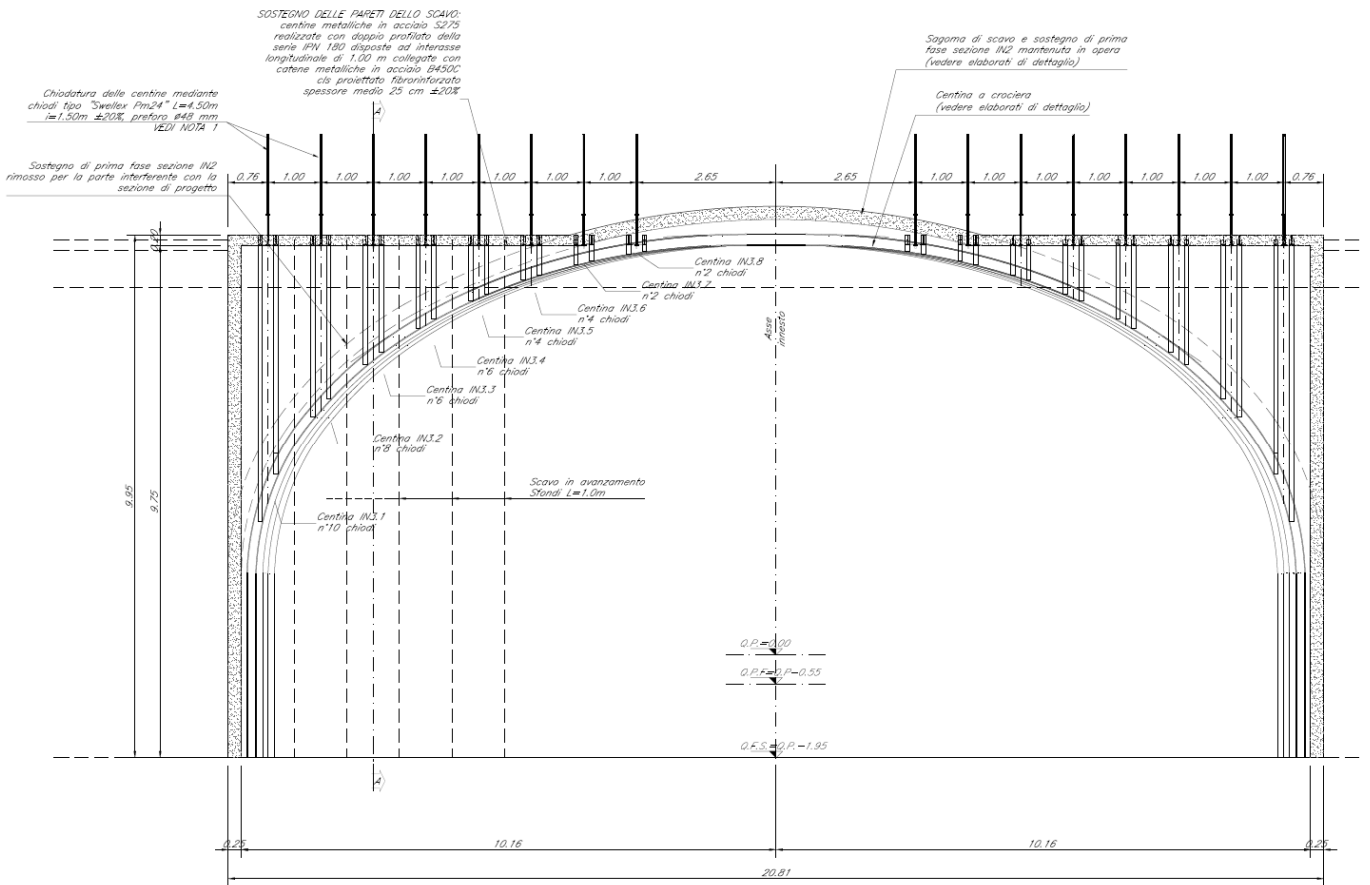


Figura 5.5: centine IN03 installate dopo la rimozione del sostegno di prima fase IN02.

5.2 DESCRIZIONE DELLE SEZIONI TIPO

Lo scavo della galleria di linea in corrispondenza dell'innesto con la camera di esodo e con il camerone di manovra sarà effettuato in tradizionale adottando la sezione tipo A2 e sarà effettuato mediante avanzamenti a piena sezione per singoli sfondi di lunghezza massima pari a 2.4m.

Di seguito sono descritte le caratteristiche principali delle sezioni adottate in corrispondenza dell'innesto.

5.2.1 SEZIONE TIPO A2 CAMERONE DI MANOVRA

La sezione tipo A2 camerone di manovra è una sezione cilindrica che prevede una bullonatura radiale del cavo e una sezione maggiorata rispetto alle sezioni correnti. Gli elementi principali che caratterizzano la sezione tipo camerone di manovra sono:

- scavo a piena sezione per sfondi massimi di 1m;
- per la sezione IN01 si utilizza un sostegno di prima fase costituito da 25cm di cls proiettato fibrinforzato e centine realizzate con profilati IPN200 doppie a passo 1m;
- per la sezione IN02 si utilizza un sostegno di prima fase costituito da 25cm di cls proiettato fibrinforzato e centine realizzate con profilati IPN220 doppie a passo 1m;
- chiodatura radiale mediante 21/22 chiodi tipo Swellex® Pm24 disposti in raggiera alternate di lunghezza 4.5m posti ad interasse longitudinale di 1m;

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>15 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 15 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 15 di 73 | | | | | | | | |

- rivestimento definitivo di spessore 1m in arco rovescio e 1m in calotta; l'arco rovescio dovrà essere gettato a una distanza massima dal fronte di 3 diametri equivalenti mentre il getto della calotta non è vincolato. Il rivestimento in corrispondenza dell'innesto è armato sia in calotta e sia in arco rovescio.

5.2.2 SEZIONE TIPO A2 GALLERIA DI LINEA

La sezione tipo A2 della galleria di linea è una sezione cilindrica che non prevede interventi di preconsolidamento del fronte e al contorno, ma solo una bullonatura radiale del cavo; è adottata per la zona di innesto alla progressiva 5+503.917 in quanto il comportamento dell'ammasso roccioso allo scavo è di tipo stabile (Categoria A).

Gli elementi principali che caratterizzano la sezione tipo A2 sono:

- scavo a piena sezione per sfondi massimi di 2.4m;
- sostegno di prima fase costituito da 20cm di cls proiettato armato con rete elettrosaldato Ø6 maglia 15x15cm e centine "automatiche" realizzate con profilati IPN180 doppie con passo 1.2m. In corso d'opera si valuterà la sostituzione della centina automatica con la centina tradizionale, con l'utilizzo di betoncino proiettato fibrorinforzato in luogo della rete elettrosaldato;
- chiodatura radiale mediante 14/15 chiodi tipo Swellex® Pm24 disposti in raggiera alternate di lunghezza 4.5m posti ad interasse longitudinale di 1.2m;
- rivestimento definitivo di spessore 80cm in arco rovescio e 70cm in calotta; l'arco rovescio dovrà essere gettato a una distanza massima dal fronte di 3 diametri equivalenti mentre il getto della calotta non è vincolato. Il rivestimento definitivo per le zone di innesto è armato sia in arco rovescio e sia in calotta, in calotta la sezione di 70cm è sormontata da un getto di riempimento variabile tra 10cm e 30cm. Il rivestimento definitivo del sottoattraversamento ha spessore 80cm ed è armato.

5.2.3 SEZIONE TIPO CAMERA DI ESODO IN CALCARI

La sezione tipo camera di esodo prevista nella formazione dei calcari con buone caratteristiche meccaniche è una sezione cilindrica che non prevede interventi di preconsolidamento del fronte, ma solo una bullonatura radiale del cavo; è adottata per la zona di innesto realizzate a profondità elevate in ammassi rocciosi consistenti.

Gli elementi principali che caratterizzano la sezione tipo camera di esodo da realizzare in calcari sono:

- scavo eseguito per i 2/3 superiori della sezione, per sfondi massimi di 1.2m;
- sostegno di prima fase costituito da 25cm di cls proiettato fibrorinforzato e centine realizzate con profilati IPN140 doppie a passo 1.2m;
- chiodatura radiale mediante 11/12 chiodi tipo Swellex® Pm24 disposti in raggiera alternate di lunghezza 3.0m posti ad interasse longitudinale di 1.2m;
- chiodatura delle pareti di fondo campo mediante 14+11 bulloni tipo Swellex® Pm24 di lunghezza 3.0m e disposti a quinconce con maglia 1.80m x 1.80m;
- rivestimento definitivo di spessore 60cm per il solettone di fondo, i piedritti, la calotta e i timpani di fondo, tutti elementi armati.

5.3 ANALISI E VERIFICA DEL NODO DI INNESTO

5.3.1 DESCRIZIONE DEL METODO DI CALCOLO ADOTTATO

Il metodo di calcolo impiegato è quello degli elementi finiti (FEM) implementato tramite il codice commerciale Midas GTS NX ver. 2.1, prodotto dalla Midas Information Technology Co., Ltd.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>16 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 16 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 16 di 73 | | | | | | | | |

Midas è un programma agli elementi finiti che consente di svolgere analisi tridimensionali in campo elasto-plastico per la valutazione dello stato di sforzo e di spostamento al contorno di opere in sotterraneo e di analizzare la risposta tensio-deformativa dei sostegni installati a supporto degli scavi durante le fasi costruttive, mediante l'implementazione di analisi multi-stage.

5.3.1.1 CONDIZIONI AL CONTORNO ED INIZIALI

Il modello numerico, di dimensioni 77mx106mx297m (bxLxh), è realizzato tramite una maglia di 208305 elementi tetraedrici, le cui dimensioni variano da 14m in prossimità dei limiti del modello a 1m in corrispondenza delle strutture sotterranee. I confini del modello sono stati collocati a una distanza dalle camere di esodo e dal cunicolo tale da non risentire degli effetti di bordo. Il bordo superiore del modello coincide con il piano campagna.

Le condizioni al contorno sono state applicate al modello imponendo spostamenti nulli alle facce del modello secondo quanto specificato di seguito:

- Spostamenti nulli nelle tre direzioni x,y e z per il fondo del modello;
- Spostamenti nulli in direzione x per le facce destra/sinistra;
- Spostamenti nulli in direzione y per le facce davanti/dietro;
- Superficie superiore non vincolata.

Lo stato tensionale iniziale è stato supposto litostatico con un coefficiente di spinta a riposo k_0 per i calcari pari a 0.8. Lo stato tensionale geostatico è stato riprodotto nel modello tramite la fase 1, applicando un campo di sforzo di tipo gravitazionale.

5.3.1.2 LEGGE DI COMPORTAMENTO DEI MATERIALI

5.3.1.2.1 Ammasso roccioso

Il criterio di rottura adottato per l'ammasso roccioso è quello di Hoek & Brown, opportunamente linearizzato per la copertura corrispondente all'analisi effettuata. Per gli elementi lontani dalle opere sotterranee il materiale è stato considerato elastico.

5.3.1.2.2 Sostegno di prima fase

Il sostegno di prima fase è stato simulato con elementi shell aventi comportamento elastico. Gli elementi shell sono stati simulati con un materiale di rigidezza equivalente.

I valori dello spessore (s_{eq}) e del modulo elastico (E_{eq}) equivalente sono ricavati dalla risoluzione del seguente sistema lineare:

$$(E_s/E_c-1)*E_c*A_s/i + E_c*A_c = E_{eq}*s_{eq}$$

$$(E_s/E_c-1)*E_c*J_s/i + E_c*J_c = E_{eq}*s_{eq}^3/12$$

Dove:

E_s = modulo elastico dell'acciaio

A_s, J_s = area e momento d'inerzia delle centine a metro lineare

i = interasse centine

E_c = modulo elastico del cls proiettato

A_c, J_c = area e momento d'inerzia del cls proiettato per metro lineare.

A tergo degli elementi shell, per simulare il contatto con l'ammasso roccioso, è stata interposta un'interfaccia con le caratteristiche di rigidezza valutate secondo la relazione di Galerkin:

dove:

k_n è la rigidezza normale;

k_t è la rigidezza tangenziale;

E è il modulo elastico del terreno a tergo del sostegno di prima fase;

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>17 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 17 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 17 di 73 | | | | | | | | |

ν è il coefficiente di Poisson.

Cautelativamente si è ipotizzato che a lungo termine il sostegno di prima fase non sia più attivo e che tutti i carichi siano trasferiti al rivestimento definitivo.

5.3.1.2.3 Rivestimento definitivo

Il rivestimento definitivo è simulato modificando le proprietà dei medesimi elementi shell che costituiscono il sostegno di prima fase, imponendo a questi, nella fase di costruzione del rivestimento definitivo, i suoi effettivi spessori e rigidità. La legge di comportamento degli elementi del rivestimento definitivo è stata assunta di tipo elastica, con le seguenti caratteristiche di rigidità:

— ;

A lungo termine quindi, tutti i carichi geotecnici gravano sul rivestimento definitivo.

5.3.1.2.4 Consolidamento radiale al contorno dello scavo

Il consolidamento radiale al contorno del cavo è stato simulato tramite elementi embedded truss aventi le caratteristiche geometriche e di deformabilità dei bulloni di tipo “Swellex”. La legge di comportamento di questi elementi è tipo elasto-plastica con cut-off a trazione pari alla resistenza di calcolo dei bulloni (146kN).

5.3.1.3 SIMULAZIONE DELLE FASI ESECUTIVE

Le fasi esecutive delle opere sono fedelmente riprodotte nel modello tramite un’analisi di tipo multi-stage. Il nodo di innesto alla progressiva 5+503.917 è caratterizzato dalle fasi costruttive riportate nel seguito.

5.3.1.4 AZIONE SISMICA

Per i nodi di innesto tra la galleria di linea e le camere di esodo/cameroni, gli effetti del sisma sono stati trascurati sulla base dei risultati delle analisi sismiche condotte per la galleria di linea a profondità elevate: tali analisi hanno infatti evidenziato effetti del tutto trascurabili sui rivestimenti definitivi.

5.3.2 MODELLO DI CALCOLO

Nel presente paragrafo si riportano le fasi adottate nel modello di calcolo e i parametri geotecnici/geomeccanici utilizzati nell’analisi.

L’analisi numerica del nodo d’innesto è stata condotta utilizzando i parametri geotecnici e la stratigrafia riportata nella tabella seguente.

Tabella 3: parametri geotecnici dei calcari linearizzati.

| Unità geot. | Stratigrafia [m da p.c.] | copertura [m] | γ [kN/m ³] | c' [kPa] | ϕ' [°] | E [MPa] | ν [-] | k_0 [-] |
|-------------|--------------------------|---------------|-------------------------------|------------|-------------|---------|-----------|-----------|
| RDO | - | 270 | 25 | 880 | 38 | 6000 | 0.25 | 0.8 |

dove:

- γ è il peso specifico dell’ammasso roccioso
- c' è la coesione efficace
- ϕ' è l’angolo di attrito efficace
- E è il modulo dell’ammasso roccioso
- ν è il rapporto di Poisson
- k_0 è il coefficiente di spinta a riposo.

I parametri della roccia sono stati determinati mediante linearizzazione del criterio di rottura di Hoek & Brown.

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>18 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 18 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 18 di 73 | | | | | | | | |

Tabella 4: parametri geomeccanici dei calcari.

| | | | | |
|-----|-----------|--------|-------|----------|
| GSI | UCS [MPa] | mi [-] | D [-] | Ei [MPa] |
| 45 | 75 | 10 | 0.5 | 55000 |

Le fasi del modello di calcolo sono le seguenti:

| Fase | Descrizione |
|-------|--|
| 0 | Condizione iniziale geostatica |
| 1 | Scavo e installazione del sostegno di prima fase di un tratto della galleria finestra A1 pari a 14.4m in un'unica fase |
| 2-3 | Scavo della galleria finestra A1 per sfondi di 2.8m per un totale di 5.6m |
| 3-4 | Installazione del sostegno di prima fase della galleria finestra A1 alla fase n+1 rispetto alle fasi di scavo |
| 4-45 | Scavo della sezione A2 del camerone per sfondi di 1m |
| 5-47 | Installazione del sostegno di prima fase del camerone A2 alla fase n+1 rispetto alle fasi di scavo |
| 48 | Installazione della centina a crociera chiodata |
| 49 | Rimozione del sostegno di prima fase della zona di intersezione con la galleria di linea |
| 50-61 | Scavo della galleria di linea A2 con sfondi di 2.4m lato Nord |
| 51-62 | Installazione del sostegno di prima fase della galleria di linea A2 alla fase n+1 rispetto alle fasi di scavo |
| 63 | Rimozione del sostegno di prima fase della zona di intersezione con la galleria di linea |
| 64-75 | Scavo della galleria di linea A2 con sfondi di 2.4m lato Sud |
| 65-76 | Installazione del sostegno di prima fase della galleria di linea A2 alla fase n+1 rispetto alle fasi di scavo |
| 77 | Getto dell'arco rovescio della galleria di linea A2 |
| 78-89 | Scavo della camera di esodo per sfondi di 1.2m e del cunicolo di emergenza |
| 79-90 | Installazione del sostegno di prima fase della camera di esodo e cunicolo di emergenza alla fase n+1 rispetto alle fasi di scavo |
| 91 | Scavo del sottoattraversamento |
| 92 | Getto dell'arco rovescio della camera di esodo, del camerone, del cunicolo di emergenza e del sottoattraversamento |
| 93 | Decadimento del sostegno di prima fase e contestuale getto delle calotte |

Nella tabella seguente si riporta una sintesi delle caratteristiche delle sezioni tipologiche previste in corrispondenza del nodo di innesto.

Tabella 5: sintesi delle sezioni tipologiche previste in corrispondenza del nodo d'innesto.

| | | | | |
|--------------|----------|-------------------|----------------------|-----------------|
| Sezione tipo | Camerone | Galleria di linea | Sottoattraversamento | Camere di esodo |
|--------------|----------|-------------------|----------------------|-----------------|

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>19 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 19 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 19 di 73 | | | | | | | | |

| Scavo | ≤1m | ≤ 2.4m | - | ≤ 1.2m |
|--|---|---|------|---|
| Chiodatura radiale | Swellex Pm24, L=4.5m i radiale=1m i longitudinale=1m | Swellex Pm24, L=4.5m i radiale =1.20 i longitudinale =1.20m | - | Swellex Pm24, L=3.0m i radiale =1.20 i longitudinale =1.20m |
| Bullonatura di fondo campo | | - | - | 17+11 Swellex Pm24, L=3m disposti a quinconce con maglia 1.80m x 1.80m |
| Centine | 2IPN200 (IN01), 2IPN220 (IN02), passo 1m | 2IPN180, passo 1.20m | - | 2IPN140, passo 1.20m |
| Cls proiettato | 25cm | 20cm | - | 25cm |
| Rivestimento definitivo calotta | 1m | 70cm | 80cm | 60cm |
| Rivestimento definitivo arco rovescio / soletta piatta | 1m | 80cm | 80cm | 60cm |

Nella figura seguente sono riportati la geometria e gli elementi principali del modello di calcolo tridimensionale a elementi finiti del nodo di innesto.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 20 di 73 |

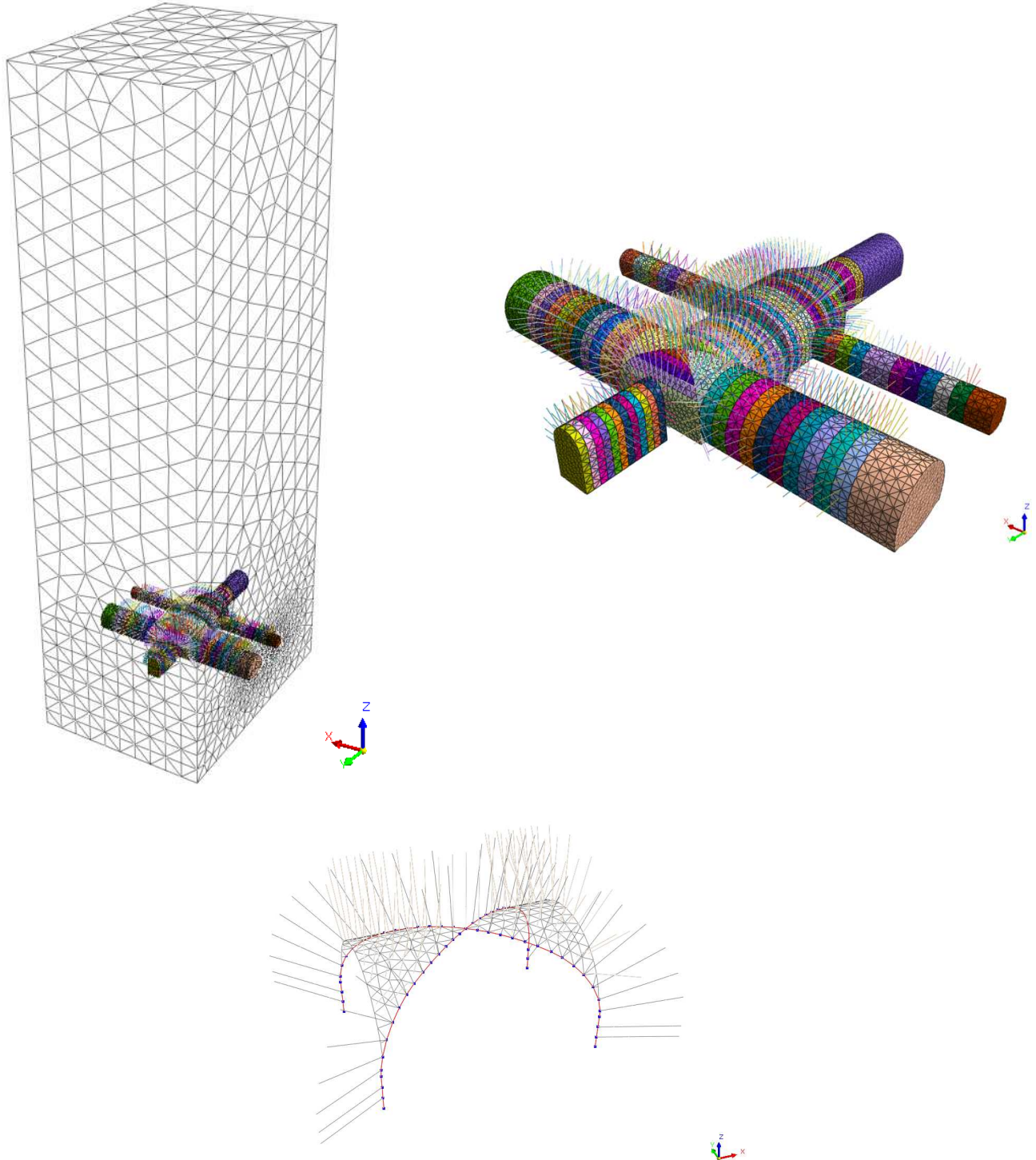


Figura 5.6: geometria ed elementi principali del modello di calcolo 3D FEM del nodo di innesto alla progressiva 5+503.917 implementato con il codice MIDAS GTS NX.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>21 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 21 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 21 di 73 | | | | | | | | |

5.3.3 RISULTATI OTTENUTI IN TERMINI DI SPOSTAMENTI

Nell'immagine seguente si riportano i risultati dell'analisi numerica in termini di deformazioni al contorno del cavo sul sostegno di prima fase in corrispondenza dello stage precedente a quello di getto del rivestimento definitivo.

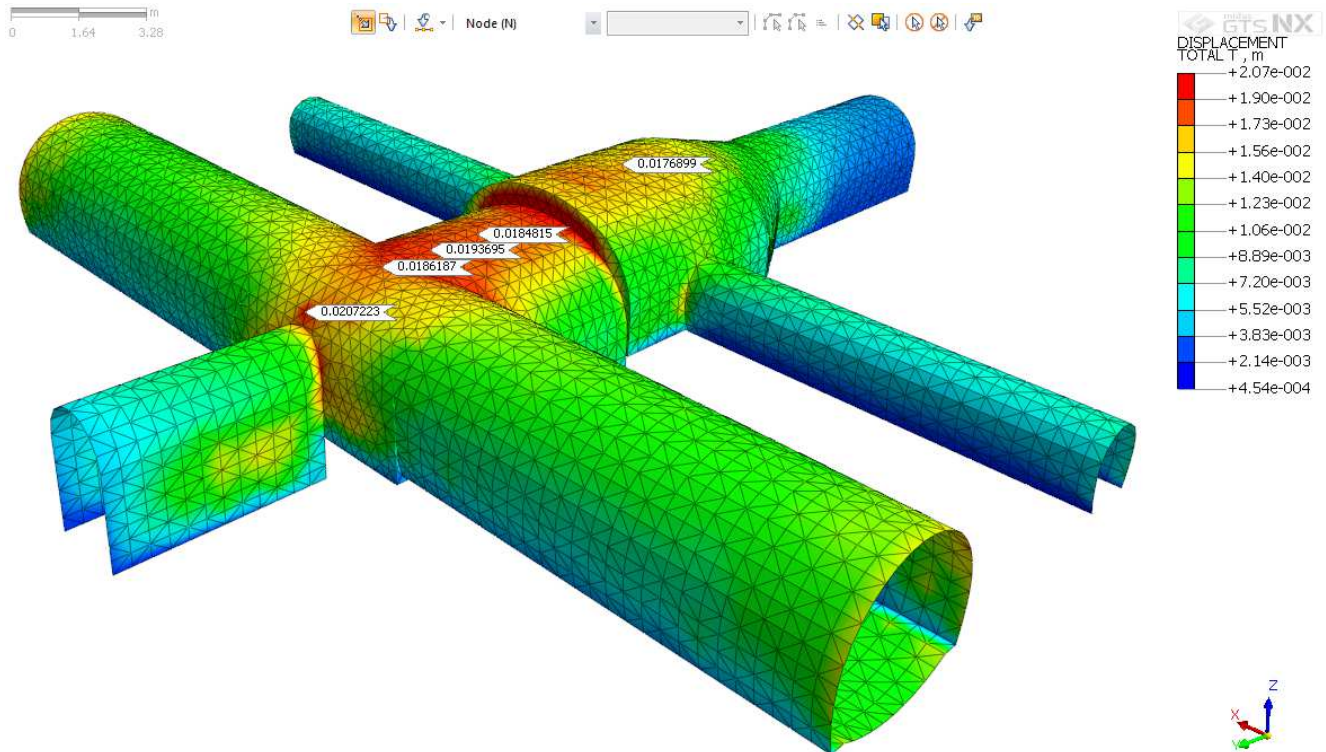


Figura 5.7: andamento degli spostamenti totali sul sostegno di prima fase per lo stage precedente a quello di getto del rivestimento definitivo ($\delta_{max} = 2.07\text{cm}$).

Nelle figure seguenti sono mostrati nel dettaglio gli spostamenti delle centine a crociera e delle centine in direzione della galleria di linea.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>22 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 22 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 22 di 73 | | | | | | | | |

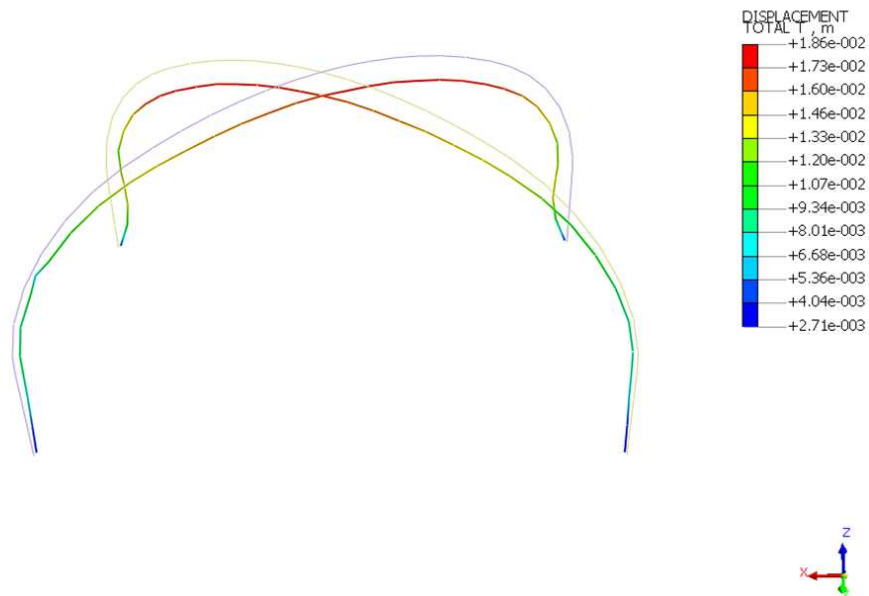


Figura 5.8: spostamenti totali delle centine a crociera, $\delta_{max} = 1.86\text{cm}$.

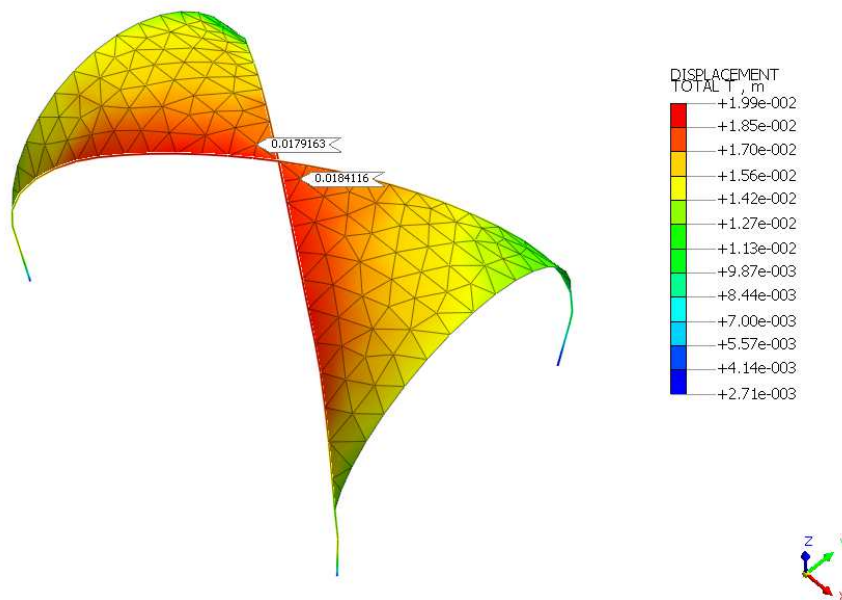


Figura 5.9: spostamenti verticali del sostegno di prima fase in direzione della galleria di linea costituito dalle centine IN03, $\delta_{max} = 1.8\text{cm}$.

Gli spostamenti massimi subiti dalla struttura a telaio sono pari a 1.86cm e si verificano in sommità alla centina a crociera.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>23 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 23 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 23 di 73 | | | | | | | | |

5.3.4 VERIFICHE STRUTTURALI DEL SOSTEGNO DI PRIMA FASE

5.3.4.1 CRITERI DI VERIFICA

Il sostegno di prima fase, così come illustrato nei precedenti paragrafi, è stato simulato nei modelli di calcolo con elementi shell a comportamento elastico lineare ove le caratteristiche geometriche e di rigidezza equivalenti sono assegnate mediante una omogeneizzazione della sezione.

Le verifiche strutturali sono condotte sulle sollecitazioni estratte dal programma di calcolo relative alle sezioni di riferimento in corrispondenza del nodo d'innesto, opportunamente amplificate mediante i coefficienti parziali sulle azioni di normativa. Le verifiche strutturali sono eseguite nella condizione A1+M1+R1.

Il sostegno di prima fase è costituito da centine metalliche e cls proiettato, pertanto ai fini delle verifiche strutturali, lo sforzo normale di compressione è ripartito tra le centine e il cls proiettato in base alle rispettive rigidezze assiali; il taglio, il momento flettente e gli eventuali sforzi di trazione localizzati sono attribuiti soltanto alle centine metalliche.

La verifica strutturale del cls proiettato è condotta secondo la seguente relazione (rif. paragrafo 2.2.1 del NTC2008)

$$\sigma_c = \frac{N_{c,d}}{A_C} \leq f_{cd}$$

Dove:

$N_{c,d}$ è la sollecitazione normale di compressione agente sul cls proiettato

A_C è l'area resistente del cls proiettato

f_{cd} è la resistenza a compressione di calcolo del cls proiettato

La verifica strutturale delle centine metalliche a taglio e presso-tenso/flessione è condotta confrontando la tensione ideale calcolata a partire dalle tensioni indotte dalle sollecitazioni agenti, con la resistenza di calcolo dell'acciaio secondo la seguente relazione (rif. paragrafo 4.2.4.1.2 del NTC2008).

$$\sigma_{s,d,max} = \frac{N_{sd}}{A_s} + \frac{M_{sd}}{W_s}$$

$$\tau_{s,d} = \frac{V_{sd}}{A_{v,s}}$$

$$\sigma_{id,s,d} = \sqrt{\sigma_{s,d,max}^2 + 3\tau_{s,d}^2} \leq f_{yd}$$

Dove:

N_{sd} è lo sforzo assiale di calcolo sulla centina metallica;

A_s è l'area della centina metallica

W_s è il modulo resistente elastico della centina

M_{sd} è il momento agente di calcolo

T_{sd} è il taglio agente di calcolo

$A_{v,s}$ è l'area resistente a taglio della centina

f_{yd} è la tensione di snervamento di calcolo dell'acciaio delle centine

$A_{v,s}$ è l'area resistente a taglio che per profilati ad I, caricati nel piano dell'anima, vale:

$$A_{v,s} = A_s - 2 \cdot b \cdot t_f + (t_w + 2 \cdot r) \cdot t_f$$

b: larghezza delle ali dei profilati;

r: raggio di raccordo tra anima e ala;

t_f : spessore delle ali;

t_w : spessore dell'anima.

5.3.4.2 COEFFICIENTI PARZIALI SULLE AZIONI E SULLE RESISTENZE

Le azioni permanenti utilizzate, sono riferite ai valori caratteristici ottenuti dal modello di calcolo, per cui le successive verifiche sono rapportate al valore del coefficiente parziale di sicurezza delle azioni permanenti

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">COMMESSA</td> <td style="text-align: center;">LOTTO</td> <td style="text-align: center;">CODIFICA</td> <td style="text-align: center;">DOCUMENTO</td> <td style="text-align: center;">REV.</td> <td style="text-align: center;">FOGLIO</td> </tr> <tr> <td style="text-align: center;">IF1N</td> <td style="text-align: center;">01 E ZZ</td> <td style="text-align: center;">CL</td> <td style="text-align: center;">GN0800 001</td> <td style="text-align: center;">C</td> <td style="text-align: center;">24 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 24 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 24 di 73 | | | | | | | | |

$\gamma_G = 1.30$. I valori di calcolo delle resistenze dei materiali si ricavano dividendo ciascun valore caratteristico per il fattore di sicurezza parziale γ_M specifico del materiale considerato (si veda la tabella seguente).

Tabella 6: coefficienti parziali sulle resistenze dei materiali.

| | | |
|--------------|--------------------------------|-------------------------|
| Stato limite | Acciaio Carpenteria γ_s | Calcestruzzo γ_c |
| SLU | 1.05 | 1.50 |

Di seguito si riportano i valori delle resistenze di calcolo, ottenute come rapporto tra la resistenza caratteristica ed il coefficiente γ_M :

$$f_d = \frac{f_k}{\gamma_M}$$

Tabella 7: tensione di snervamento di calcolo delle centine metalliche.

| | | |
|---------|----------------|----------------|
| Acciaio | f_{yk} [MPa] | f_{yd} [MPa] |
| S275 | 275 | 261.9 |

Tabella 8: resistenze di calcolo del calcestruzzo proiettato.

| | | |
|----------------------------|-------------------|--------------------|
| Cls proiettato [Classe] | f_{cd} [MPa] | f_{ctd} [MPa] |
| C20/25 | 13.83 | 1.03 |

5.3.4.3 CENTINE A CROCIERA

Nella figure seguenti si riportano le sollecitazioni agenti nelle centine a crociera e nel sostegno di prima fase composto dalle centine in direzione della galleria di linea allo stage precedente alla fase di getto del rivestimento definitivo.

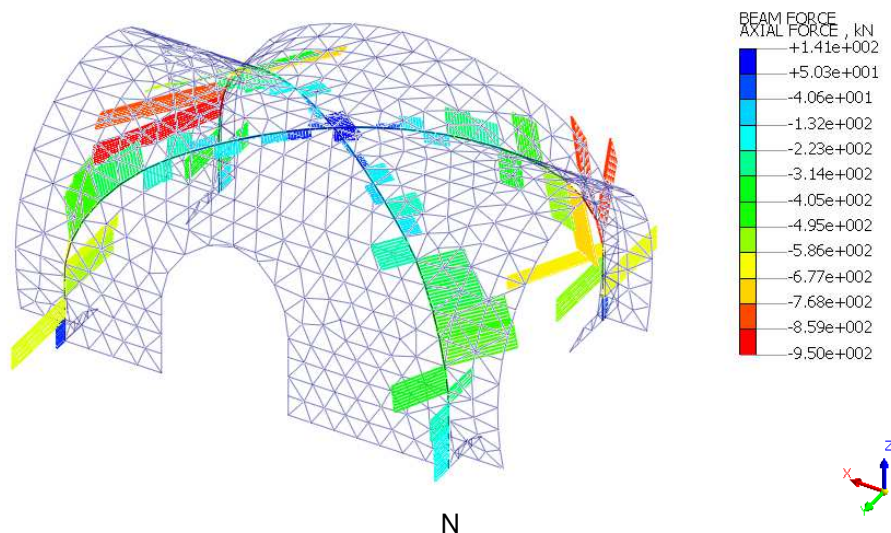
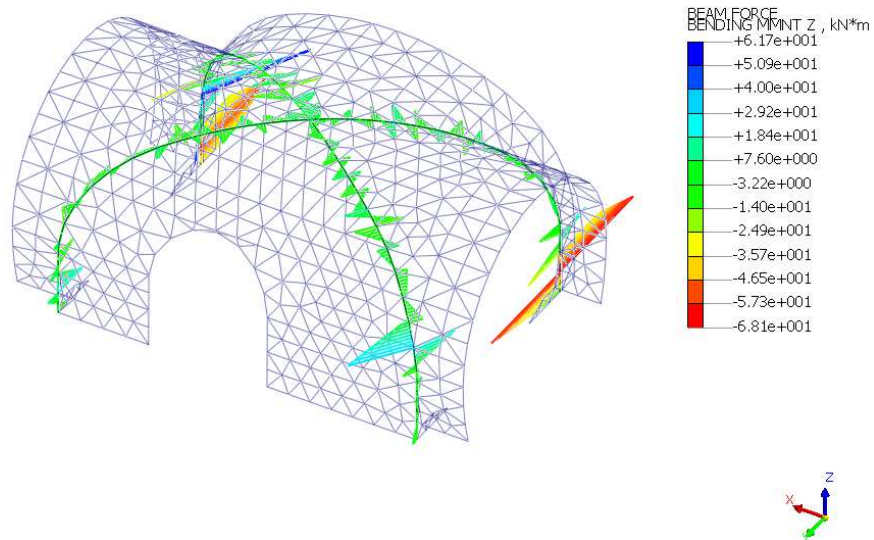


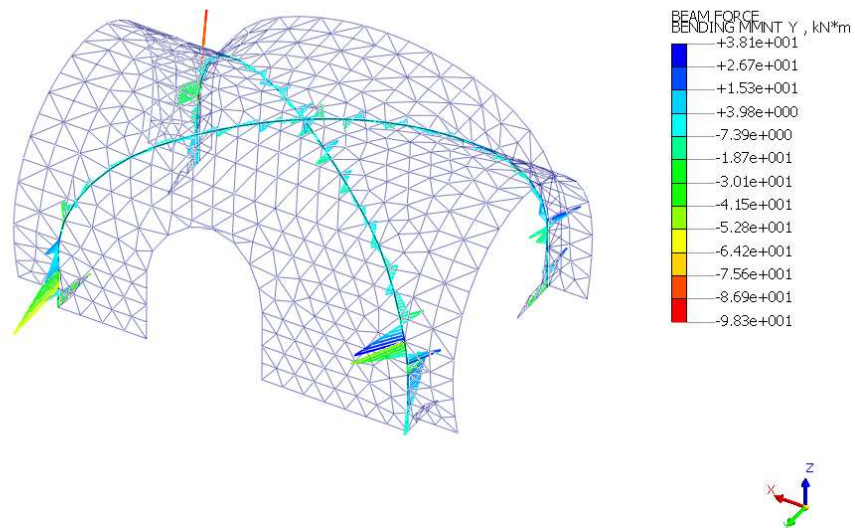
Figura 5.10: sollecitazioni agenti nelle centine della crociera (sforzo normale $N < 0$ se di compressione).

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 25 di 73 |



M_z (piano delle anime)

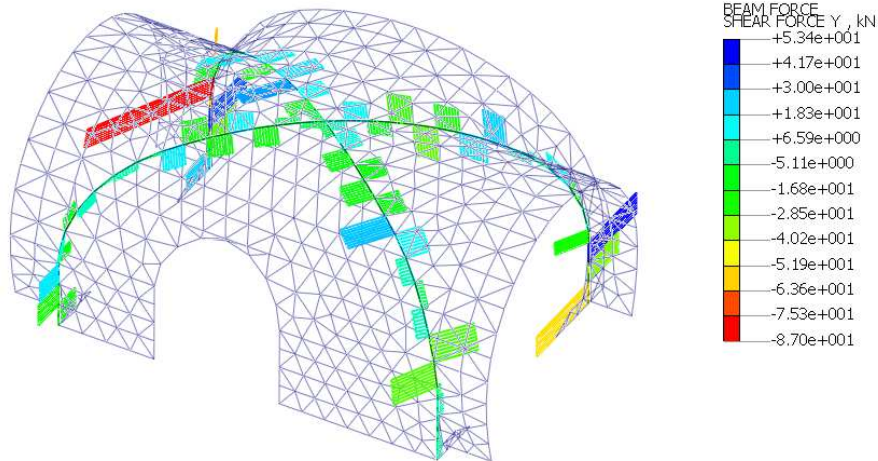


M_y (piano delle ali)

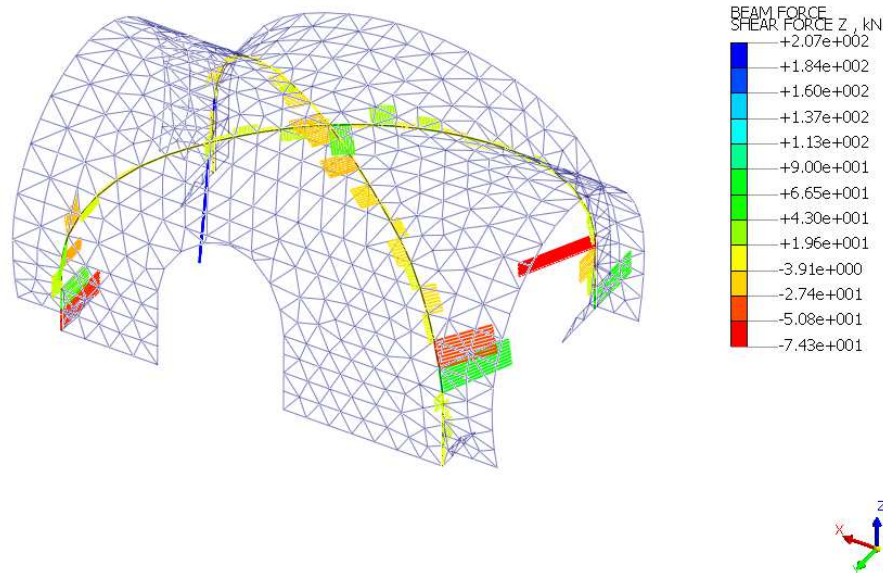
Figura 5.11: sollecitazioni agenti nelle centine della crociera (M_z momento flettente agente nel piano delle anime; M_y momento flettente agente nel piano delle ali).

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 26 di 73 |



T_y (anime)



T_z (ali)

Figura 5.12: sollecitazioni agenti nelle centine della crociera (T_y taglio agente parallelo alle anime; T_z taglio agente parallelo alle ali).

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>27 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 27 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 27 di 73 | | | | | | | | |

5.3.4.4 VERIFICHE TENSIONALI DEI PROFILATI

Le tensioni di presso-flessione e tenso-flessione nelle sezioni delle strutture di contrasto sono calcolate come segue:

$$\sigma_{Ed} = N/A \pm M_y/W_x \pm M_x/W_y.$$

La tensione tangenziale τ_{Ed} in asse ai profilati segue le seguenti formulazioni (a seconda della direzione di taglio maggiormente sollecitante l'elemento):

$$\tau_{Ed} = \tau_y = (T_y \times S_x^*) / (t \times J_x); \quad \tau_{Ed} = \tau_x = (T_x \times S_y^*) / (t \times J_y)$$

Da cui si ottiene una tensione ideale (criterio di Von Mises) per la sezione esaminata pari a:

$$\sigma_{id} = (\sigma_{Ed}^2 + 3 \times \tau_{Ed}^2)^{0.5}$$

Dove:

N : sforzo normale;

M_y : sollecitazione flettente asse forte;

M_x : sollecitazione flettente asse debole;

T_y : sollecitazione di taglio asse forte;

T_x : sollecitazione di taglio asse debole;

A : area della trave/sezione;

$W_{x/y}$: moduli di resistenza della trave/sezione nelle direzioni forte e debole;

$S_{x/y}^*$: momento statico di metà sezione della trave per le due direzioni;

$J_{x/y}$: momenti d'inerzia relativi ai due assi della trave;

t : spessore dell'anima della trave;

σ_{Ed} : tensione normale di calcolo;

τ_{Ed} : tensione tangenziale di calcolo (cautelativamente per le verifiche è stata usata la risultante dei tagli agenti contemporaneamente);

La verifica delle travi/sezioni è soddisfatta se sussiste la relazione seguente:

$$\sigma_{id} \leq f_{yd} = f_{yk} / \gamma_M$$

dove γ_M è il coefficiente di sicurezza per la resistenza delle membrature, pari a

$$\gamma_M = 1.05.$$

Tabella 5.9: verifiche tensionali per le sollecitazioni più sfavorevoli allo SLU per le centine a crociera.

| Tipologia profilato | Elemento strutturale | σ_{Ed} [MPa] | τ_{Ed} [MPa] | σ_{id} [MPa] | f_{yd} [MPa] | Verifica |
|---------------------|----------------------|---------------------|-------------------|---------------------|----------------|------------------------|
| 2xHEB220 | Crociera | -167.6 | 64.6 | 201.6 | 261.9 | $\sigma_{id} < f_{yd}$ |

Dalle verifiche sopra riportate si evince il soddisfacimento delle verifiche a presso-flessione delle centine a crociera.

| | | | | | | |
|--|---|-------------------------|-------------------------|-----------------------|--------------------------------|------------------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | |
| | RELAZIONE TECNICA E DI CALCOLO | COMMESSA IF1N | LOTTO 01 E ZZ | CODIFICA CL | DOCUMENTO GN0800 001 | REV. C |

5.3.4.5 SEZIONE TIPO A2 CAMERONE DI MANOVRA

Di seguito sono riportate le sollecitazioni (N, M e T) nel sostegno di prima fase della sezione in esame; i valori numerici (caratteristici e di calcolo) sono riportati nell'allegato specifico.

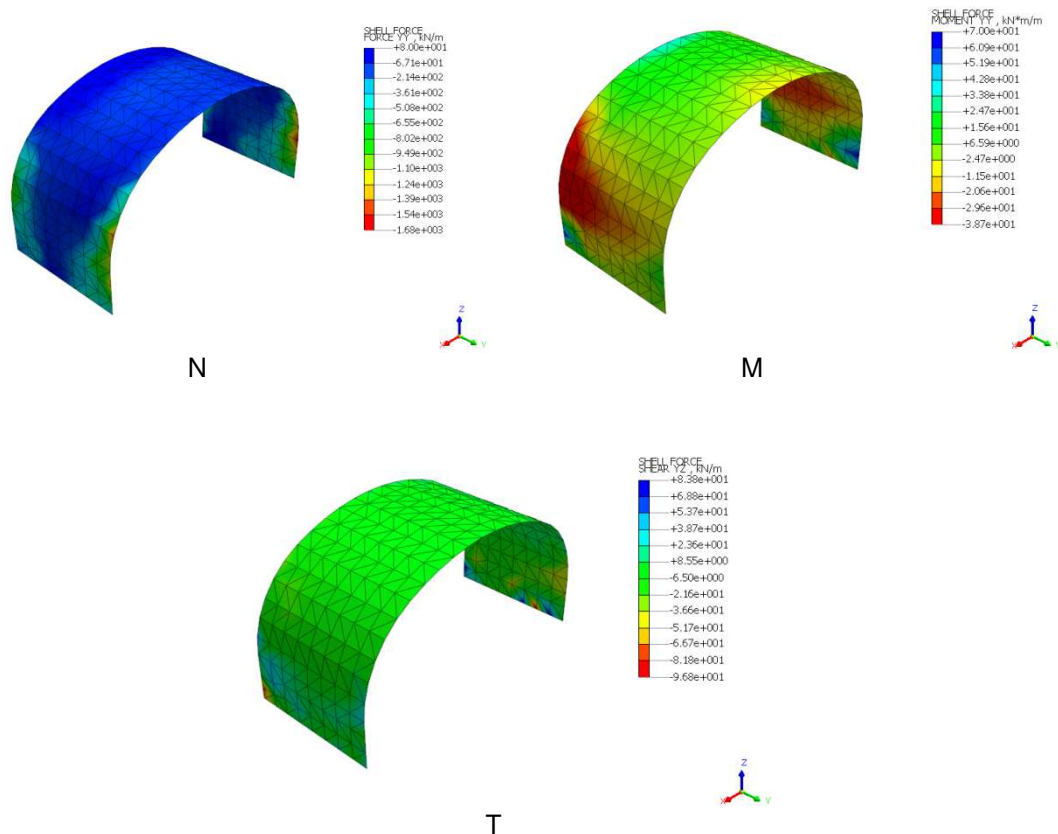


Figura 5.13: Sollecitazioni sul sostegno di prima fase del camerone di manovra sezione IN01 nell'intorno del nodo d'innesto – stage precedente alla fase di getto del rivestimento definitivo.

Tabella 10: verifiche del sostegno di prima fase (M>0 fibre tese in intradosso).

| Sollecitazioni caratteristiche | | | | Sollecitazioni SLU | | | | Verifica calcestruzzo proiettato | | | Verifica centine | | | | |
|--------------------------------|------------------|------------------|------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|-----------------|----------|--------------------|--------------------|-----------------------|-----------------|----------|
| N _{clsp} | N _{cen} | M _{cen} | T _{cen} | N _{clsp,d} | N _{cen,d} | M _{cen,d} | T _{cen,d} | σ _{c,clsp,d} | f _{cd} | Verifica | σ _{cen,d} | τ _{cen,d} | σ _{id,cen,d} | f _{yd} | Verifica |
| [kN] | [kN] | [kNm] | [kN] | [kN] | [kN] | [kNm] | [kN] | [MPa] | [MPa] | - | [MPa] | [MPa] | [MPa] | [MPa] | - |
| 1451.7 | 233.1 | 14.9 | 39.5 | 1887.2 | 303.0 | 19.4 | 51.3 | 7.5 | 13.8 | OK | 90.7 | 16.4 | 95.1 | 261.9 | OK |
| 0.0 | -80.0 | -11.6 | -12.9 | 0.0 | -104.0 | -15.1 | -16.8 | 0.0 | 13.8 | OK | 50.8 | -5.4 | 51.6 | 261.9 | OK |
| 205.7 | 33.0 | -15.4 | -96.8 | 267.4 | 42.9 | -20.0 | -125.8 | 1.1 | 13.8 | OK | 53.1 | -40.3 | 87.7 | 261.9 | OK |

I risultati completi delle verifiche sono riportati nell'Allegato 1.

| | | | | | | |
|--|---|-------------------------|-------------------------|-----------------------|--------------------------------|------------------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | |
| | RELAZIONE TECNICA E DI CALCOLO | COMMESSA IF1N | LOTTO 01 E ZZ | CODIFICA CL | DOCUMENTO GN0800 001 | REV. C |

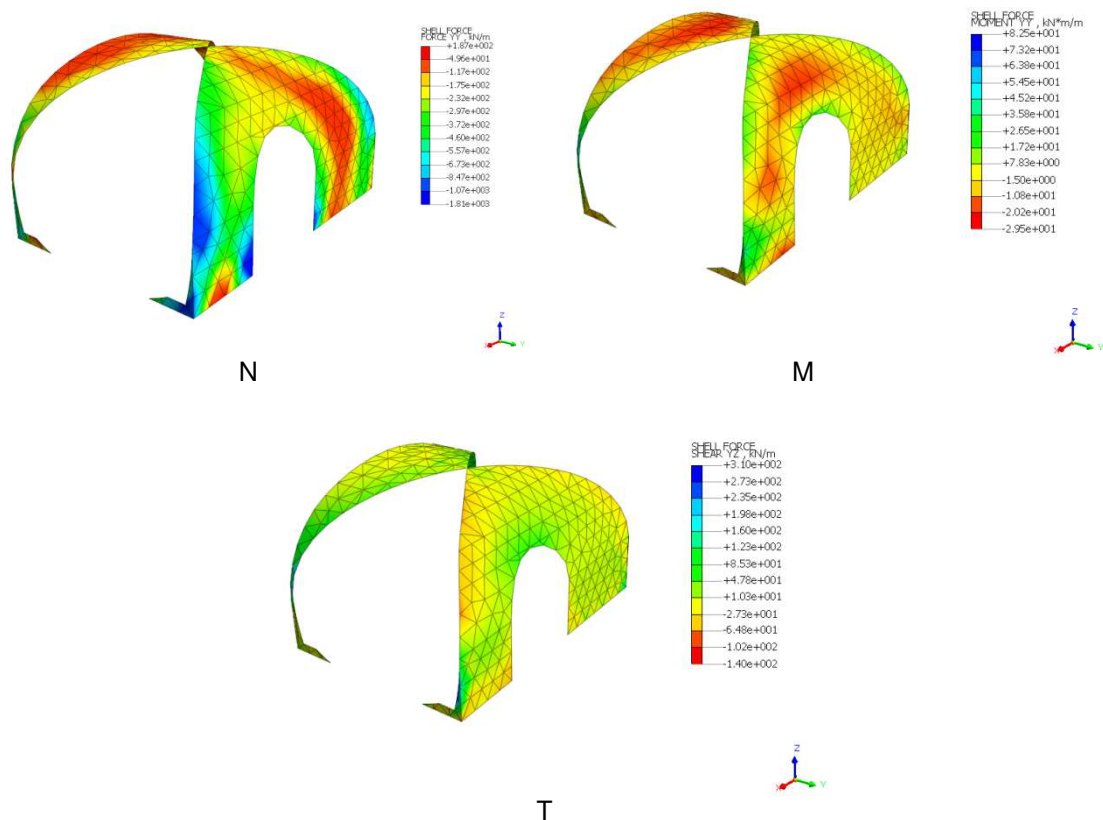


Figura 5.14: Sollecitazioni sul sostegno di prima fase del camerone di manovra sezione IN02 nell'intorno del nodo d'innesto – stage precedente alla fase di getto del rivestimento definitivo.

Tabella 11: verifiche del sostegno di prima fase (M>0 fibre tese in intradosso).

| Sollecitazioni caratteristiche | | | | Sollecitazioni SLU | | | | Verifica calcestruzzo proiettato | | | Verifica centine | | | | |
|--------------------------------|------------------|------------------|------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|-----------------|----------|--------------------|--------------------|-----------------------|-----------------|----------|
| N _{clsp} | N _{cen} | M _{cen} | T _{cen} | N _{clsp,d} | N _{cen,d} | M _{cen,d} | T _{cen,d} | σ _{c,clsp,d} | f _{cd} | Verifica | σ _{cen,d} | τ _{cen,d} | σ _{id,cen,d} | f _{yd} | Verifica |
| [kN] | [kN] | [kNm] | [kN] | [kN] | [kN] | [kNm] | [kN] | [MPa] | [MPa] | - | [MPa] | [MPa] | [MPa] | [MPa] | - |
| 1517.4 | 288.1 | 14.2 | -54.9 | 1972.7 | 374.6 | 18.5 | -71.4 | 7.9 | 13.8 | OK | 80.6 | -19.2 | 87.3 | 261.9 | OK |
| 0.0 | -178.1 | -17.8 | -27.7 | 0.0 | -231.5 | 23.1 | -36.0 | 0.0 | 13.8 | OK | 70.9 | -9.7 | 72.9 | 261.9 | OK |
| 1349.4 | 256.2 | 82.5 | -135.5 | 1754.2 | 333.1 | 107.2 | -176.2 | 7.0 | 13.8 | OK | 235.0 | -47.5 | 248.9 | 261.9 | OK |
| 116.4 | 22.1 | 28.9 | 310.4 | 151.3 | 28.7 | 37.5 | 403.5 | 0.6 | 13.8 | OK | 71.2 | 108.8 | 201.4 | 261.9 | OK |

I risultati completi delle verifiche sono riportati nell'Allegato 1.

5.3.4.6 SEZIONE TIPO A2 LINEA

Nelle figure seguenti si riportano le sollecitazioni (N, M e T) e i risultati delle verifiche dei sostegni di prima fase IN03 (installati dopo la rimozione delle centine IN02 per la parte interferente con la sezione di progetto) e della galleria di linea; i valori numerici (caratteristici e di calcolo) sono riportati nell'allegato specifico.

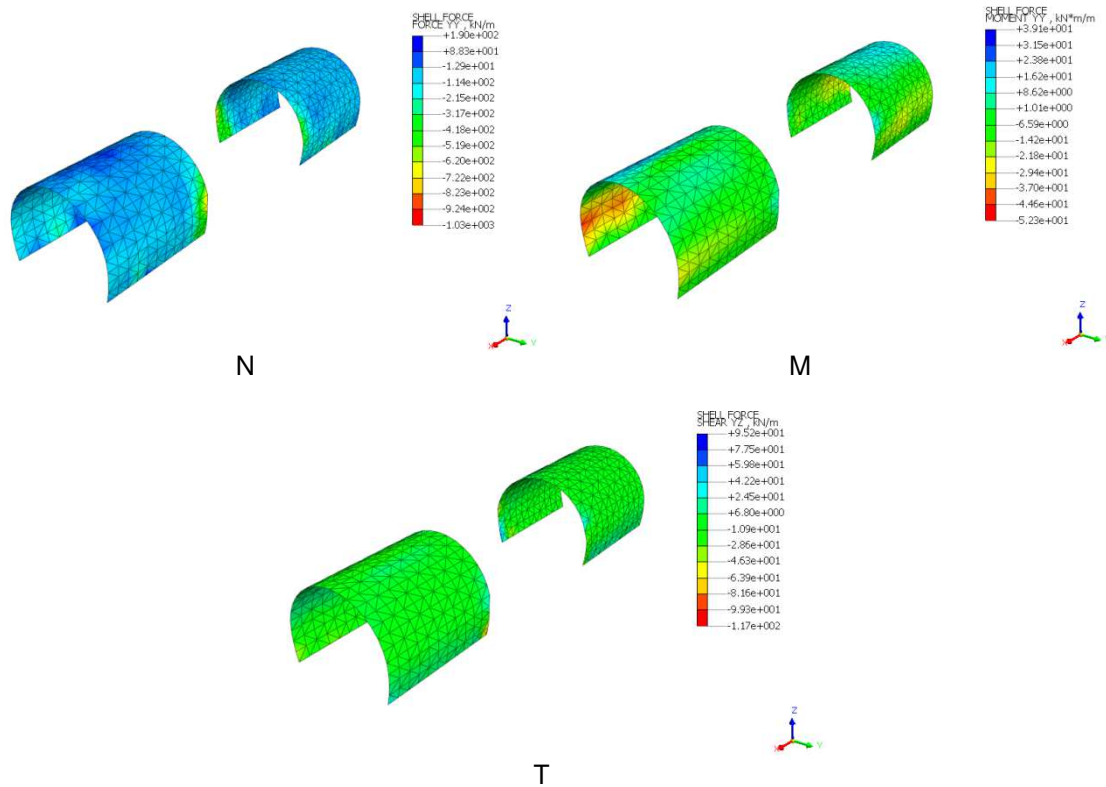


Figura 5.15: Sollecitazioni sul sostegno di prima fase della galleria di linea nell'intorno del nodo d'innesto – stage precedente alla fase di getto del rivestimento definitivo.

Tabella 12: verifiche del sostegno di prima fase ($M > 0$ fibre tese in intradosso).

| Sollecitazioni caratteristiche | | | | Sollecitazioni SLU | | | | Verifica calcestruzzo proiettato | | | Verifica centine | | | | |
|--------------------------------|-----------|-----------|-----------|--------------------|-------------|-------------|-------------|----------------------------------|----------|----------|------------------|----------------|---------------------|----------|----------|
| N_{clsp} | N_{cen} | M_{cen} | T_{cen} | $N_{clsp,d}$ | $N_{cen,d}$ | $M_{cen,d}$ | $T_{cen,d}$ | $\sigma_{c,clsp,d}$ | f_{cd} | Verifica | $\sigma_{cen,d}$ | $\tau_{cen,d}$ | $\sigma_{id,cen,d}$ | f_{yd} | Verifica |
| [kN] | [kN] | [kNm] | [kN] | [kN] | [kN] | [kNm] | [kN] | [MPa] | [MPa] | - | [MPa] | [MPa] | [MPa] | [MPa] | - |
| 899.6 | 125.7 | 16.8 | -22.8 | 1169.5 | 163.4 | 21.9 | -29.6 | 5.8 | 13.8 | OK | 116.6 | -13.7 | 119.0 | 261.9 | OK |
| 0.0 | -189.6 | 3.9 | -15.1 | 0.0 | -246.4 | 5.0 | -19.6 | 0.0 | 13.8 | OK | 71.8 | -9.0 | 73.5 | 261.9 | OK |
| 123.7 | 17.3 | -52.3 | -6.0 | 160.9 | 22.5 | -67.9 | -7.8 | 0.8 | 13.8 | OK | 258.0 | -3.6 | 258.1 | 261.9 | OK |
| 884.7 | 123.6 | -24.6 | -117.0 | 1150.2 | 160.7 | -32.0 | -152.1 | 5.8 | 13.8 | OK | 153.8 | -70.2 | 196.1 | 261.9 | OK |

I risultati completi delle verifiche sono riportati nell'Allegato 1.

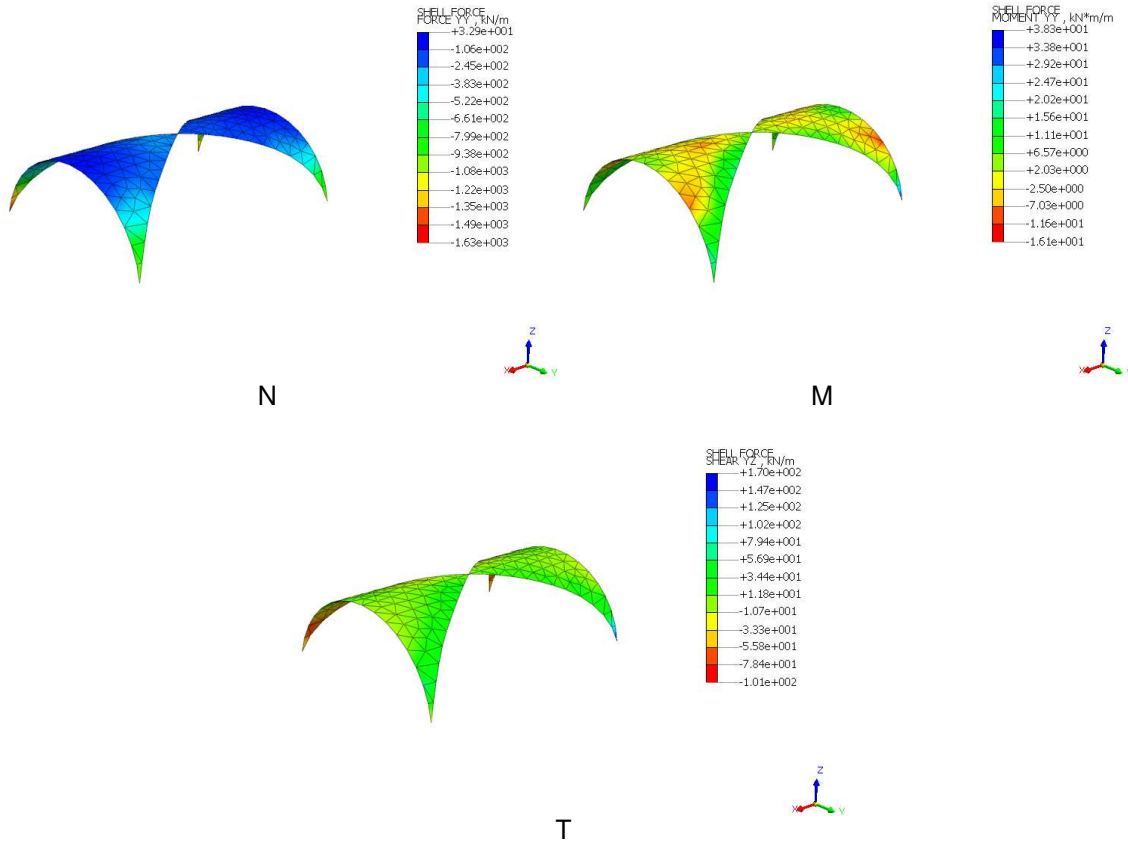


Figura 5.16: Sollecitazioni sul sostegno di prima fase IN03 – stage precedente alla fase di getto del rivestimento definitivo.

Tabella 13: verifiche del sostegno di prima fase (M>0 fibre tese in intradosso).

| Sollecitazioni caratteristiche | | | | Sollecitazioni SLU | | | | Verifica calcestruzzo proiettato | | | Verifica centine | | | | |
|--------------------------------|------------------|------------------|------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|-----------------|----------|--------------------|--------------------|------------------------|-----------------|----------|
| N _{clsp} | N _{cen} | M _{cen} | T _{cen} | N _{clsp,d} | N _{cen,d} | M _{cen,d} | T _{cen,d} | σ _{c, clsp,d} | f _{cd} | Verifica | σ _{cen,d} | τ _{cen,d} | σ _{id, cen,d} | f _{yd} | Verifica |
| [kN] | [kN] | [kNm] | [kN] | [kN] | [kN] | [kNm] | [kN] | [MPa] | [MPa] | - | [MPa] | [MPa] | [MPa] | [MPa] | - |
| 1438.6 | 193.0 | 0.8 | -24.2 | 1870.2 | 250.8 | 1.0 | -31.4 | 7.5 | 13.8 | OK | 48.2 | -12.1 | 52.5 | 261.9 | OK |
| 0.0 | -32.9 | 5.1 | -8.2 | 0.0 | -42.8 | 6.6 | -10.7 | 0.0 | 13.8 | OK | 28.2 | -4.1 | 29.1 | 261.9 | OK |
| 896.3 | 120.2 | 38.3 | 169.6 | 1165.2 | 156.3 | 49.8 | 220.5 | 4.7 | 13.8 | OK | 182.5 | 84.8 | 234.3 | 261.9 | OK |

I risultati completi delle verifiche sono riportati nell'Allegato 1.

5.3.4.7 SEZIONE TIPO CAMERA DI ESODO IN CALCARI

Di seguito sono riportate le sollecitazioni (N, M e T) nel sostegno di prima fase della sezione in esame; i valori numerici (caratteristici e di calcolo) sono riportati nell'allegato specifico.

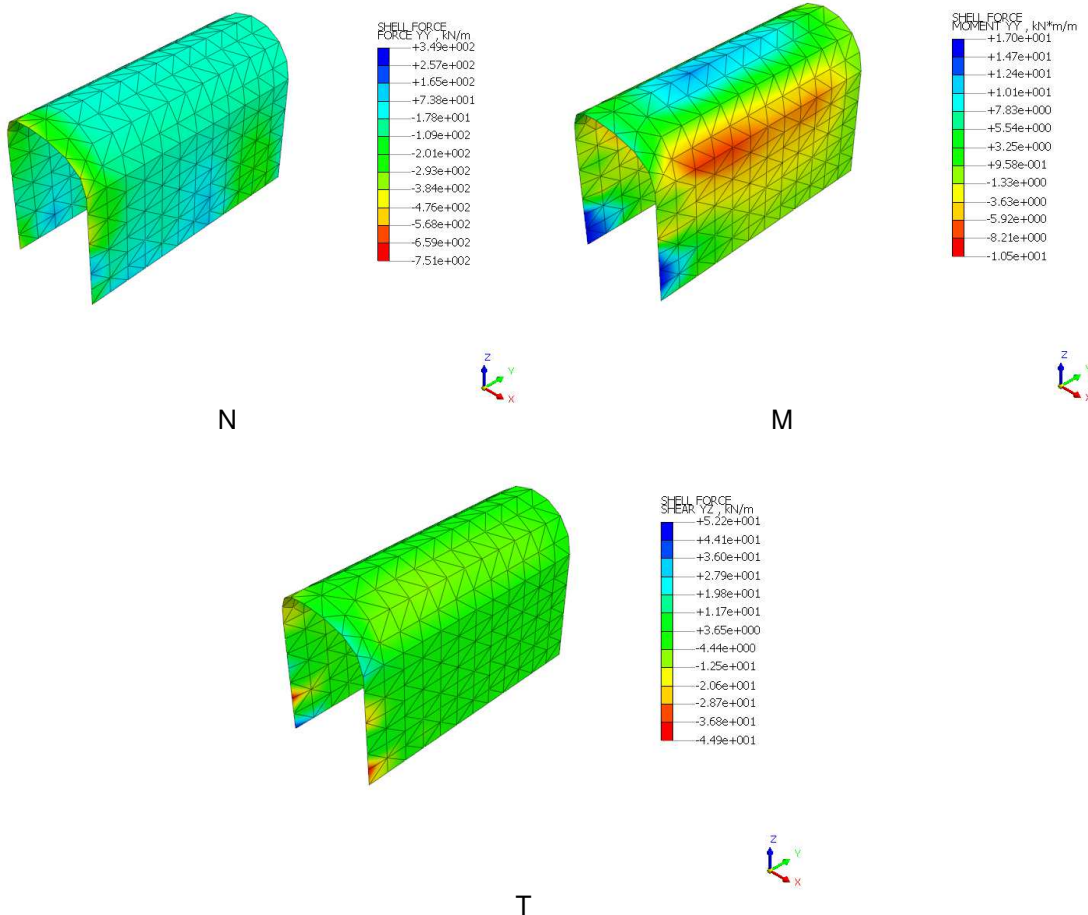


Figura 5.17: Sollecitazioni sul sostegno di prima fase della camera di esodo nell'intorno del nodo d'innesto – stage precedente alla fase di getto del rivestimento definitivo.

Tabella 14: verifiche del sostegno di prima fase (M>0 fibre tese in intradosso).

| Sollecitazioni caratteristiche | | | | Sollecitazioni SLU | | | | Verifica calcestruzzo proiettato | | | Verifica centine | | | | |
|--------------------------------|------------------|------------------|------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|-----------------|----------|--------------------|--------------------|------------------------|-----------------|----------|
| N _{clsp} | N _{cen} | M _{cen} | T _{cen} | N _{clsp,d} | N _{cen,d} | M _{cen,d} | T _{cen,d} | σ _{c, clsp,d} | f _{cd} | Verifica | σ _{cen,d} | τ _{cen,d} | σ _{id, cen,d} | f _{yd} | Verifica |
| [kN] | [kN] | [kNm] | [kN] | [kN] | [kN] | [kNm] | [kN] | [MPa] | [MPa] | - | [MPa] | [MPa] | [MPa] | [MPa] | - |
| 699.5 | 51.3 | 0.4 | 0.1 | 909.3 | 66.7 | 0.5 | 0.1 | 3.6 | 13.8 | OK | 25.6 | 0.1 | 25.6 | 261.9 | OK |
| 0.0 | -348.7 | -0.5 | 9.3 | 0.0 | -453.4 | -0.6 | 12.1 | 0.0 | 13.8 | OK | 153.0 | 8.6 | 153.7 | 261.9 | OK |
| 0.0 | -64.8 | 17.0 | 15.2 | 0.0 | -84.2 | 22.1 | 19.7 | 0.0 | 13.8 | OK | 189.9 | 14.1 | 191.4 | 261.9 | OK |
| 238.9 | 17.5 | -0.5 | 52.2 | 310.5 | 22.8 | -0.7 | 67.8 | 1.2 | 13.8 | OK | 12.5 | 48.3 | 84.6 | 261.9 | OK |

I risultati completi delle verifiche sono riportati nell'Allegato 1.

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">COMMESSA</td> <td style="text-align: center;">LOTTO</td> <td style="text-align: center;">CODIFICA</td> <td style="text-align: center;">DOCUMENTO</td> <td style="text-align: center;">REV.</td> <td style="text-align: center;">FOGLIO</td> </tr> <tr> <td style="text-align: center;">IF1N</td> <td style="text-align: center;">01 E ZZ</td> <td style="text-align: center;">CL</td> <td style="text-align: center;">GN0800 001</td> <td style="text-align: center;">C</td> <td style="text-align: center;">33 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 33 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 33 di 73 | | | | | | | | |

5.3.5 VERIFICHE STRUTTURALI DEL RIVESTIMENTO DEFINITIVO

Le verifiche strutturali del rivestimento definitivo sono condotte a partire dalle sollecitazioni estrapolate dai risultati del modello di calcolo opportunamente amplificate per il coefficiente parziale γ_{G1} specifico per i diversi stati limite analizzati.

Tabella 15: fattore di sicurezza parziale dei materiali costituenti il rivestimento definitivo.

| | | |
|--------------|--------------------|-------------------------|
| Stato limite | Acciaio γ_s | Calcestruzzo γ_c |
| SLU | 1.15 | 1.50 |

Le verifiche strutturali di seguito riportate per ciascuna sezione tipo sono:

- in condizioni statiche (condizioni di normale esercizio):
 - Verifica a S.L.U. per flessione;
 - Verifica a S.L.U. per taglio;
 - Verifica a S.L.E. delle tensioni indotte nel calcestruzzo e nell'armatura metallica: conformemente alla normativa di riferimento, i valori limite sono pari a:
 - calcestruzzo: $\sigma_{c \max} = 0.45f_{ck}$
 - acciaio: $\sigma_{s \max} = 0.8f_{yk}$
 - Verifica a S.L.E. per fessurazione per la combinazione quasi permanente.

I valori di calcolo delle resistenze dei materiali si ricavano dividendo ciascun valore caratteristico per il fattore di sicurezza parziale γ_m specifico del materiale considerato (vedi tabella seguente).

Tabella 16: coefficienti parziali per le azioni secondo Tabella 2.6.I delle NTC2008.

| | | | |
|----------------|-------------|---------------|-----------|
| Tipo di carico | Condizione | Simbolo | Approccio |
| Permanente | sfavorevole | γ_{G1} | A1 (STR) |

Di seguito si riportano i valori delle resistenze di calcolo, ottenute come rapporto tra la resistenza caratteristica ed il coefficiente γ_m : $f_d = f_k/\gamma_m$

Tabella 17: tensione di snervamento di calcolo per l'acciaio di armatura.

| | |
|---------|----------------|
| Acciaio | f_{yd} [MPa] |
| B450C | 391 |

Tabella 18: resistenze di calcolo per il calcestruzzo.

| | | | |
|---------------------|----------------------------|-----------------|-----------------|
| Classe calcestruzzo | $f_{cd \text{ arm}}$ [MPa] | f_{ctd} [MPa] | f_{ctd} [MPa] |
| C25/30 | 14.17 | 1.2 | 1.44 |

Dove:

f_{cd} = resistenza a compressione cilindrica di calcolo valutata secondo quanto riportato al paragrafo 4.1.12.1 delle NTC2008,

f_{ctd} = resistenza a trazione di calcolo valutata secondo quanto riportato al paragrafo 11.2.10.2 delle NTC2008 ,

f_{ctd} = resistenza a trazione per flessione di calcolo valutata secondo quanto riportato al paragrafo 11.2.10.2 delle NTC2008.

5.3.5.1 SEZIONE TIPO A2 CAMERONE DI MANOVRA

Nel presente paragrafo si illustrano le verifiche di resistenza del rivestimento definitivo della sezione A2 Camerone di manovra del nodo d'innesto. Le verifiche sono riportate per via grafica.

5.3.5.1.1 Sollecitazioni agenti

Di seguito sono riportate le sollecitazioni (N, M e T) nel rivestimento definitivo della sezione in esame; i valori numerici (caratteristici e di calcolo) sono riportati nell'allegato specifico.

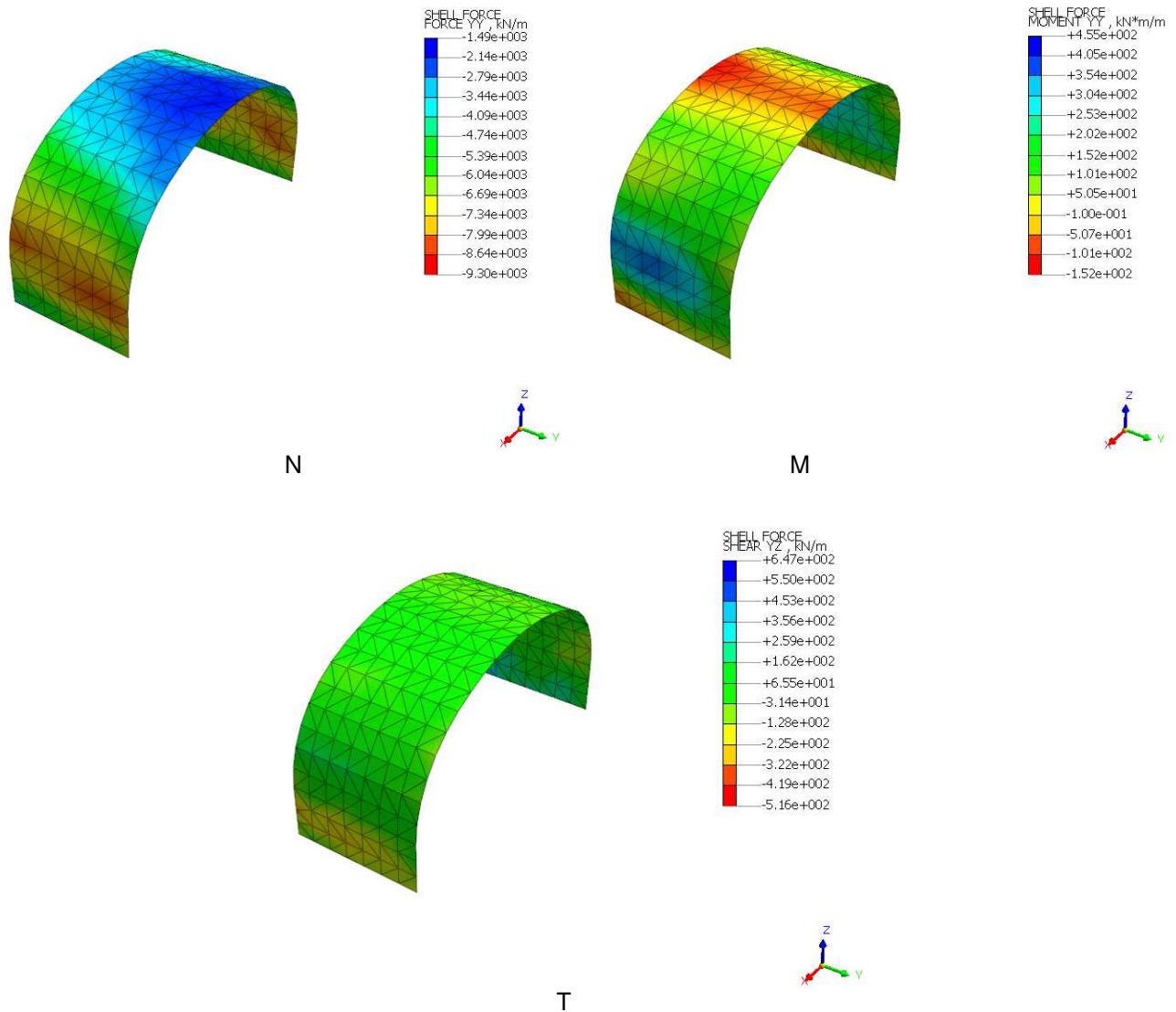


Figura 5.18: Sollecitazioni sul sostegno definitivo del camerone di manovra nell'intorno del nodo d'innesto – calotta – (N<0 se di compressione) – stage finale.

| | | | | | | |
|--|---|-------------------------|-------------------------|-----------------------|--------------------------------|------------------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | |
| | RELAZIONE TECNICA E DI CALCOLO | COMMESSA IF1N | LOTTO 01 E ZZ | CODIFICA CL | DOCUMENTO GN0800 001 | REV. C |

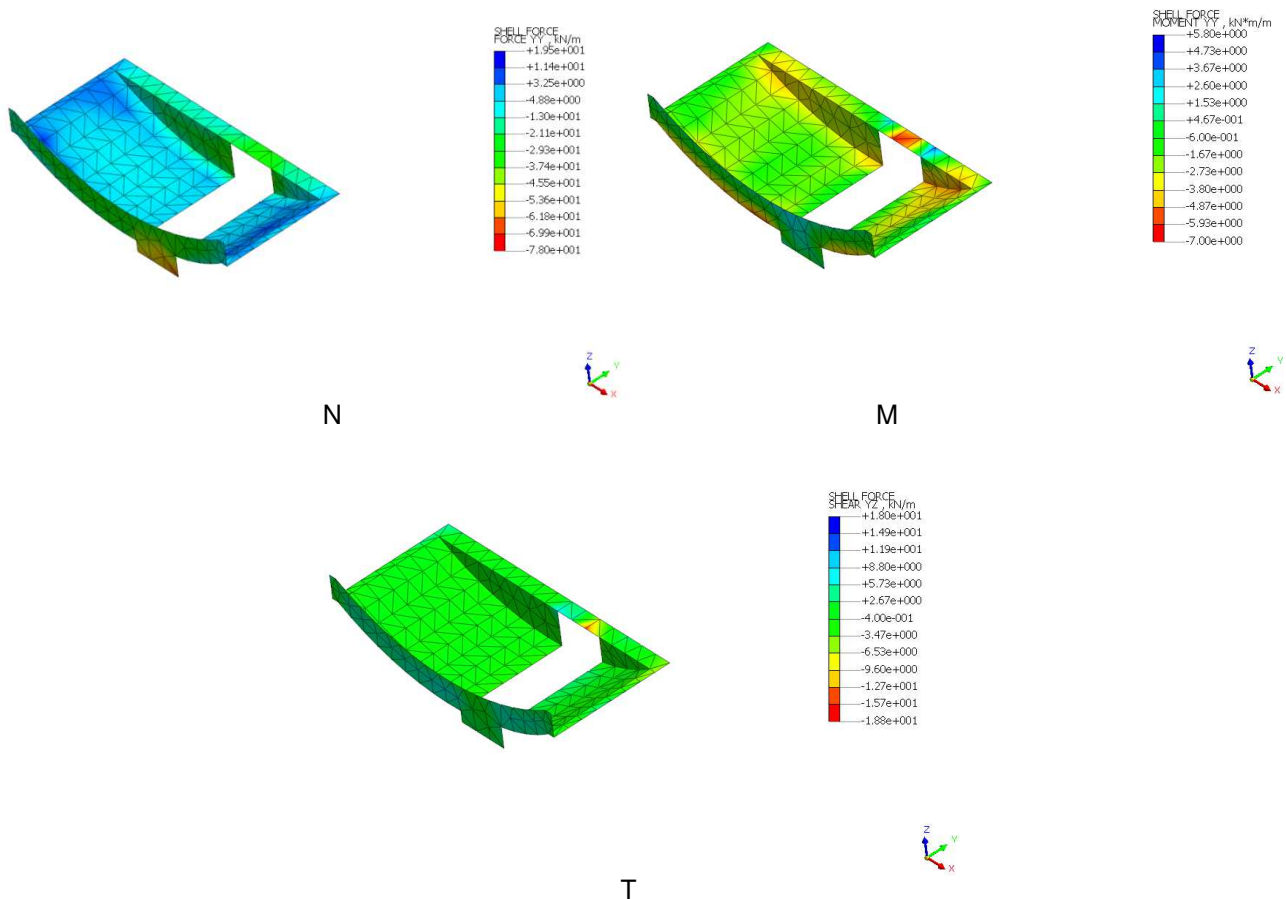


Figura 5.19: Sollecitazioni sul sostegno definitivo del camerone nell'intorno del nodo d'innesto – arco rovescio – (N<0 se di compressione) – stage finale.

5.3.5.1.2 Armatura disposta

Nella tabella seguente sono riassunte le armature previste per la sezione tipo A2.

Tabella 19: armatura prevista per la sezione tipo A2.

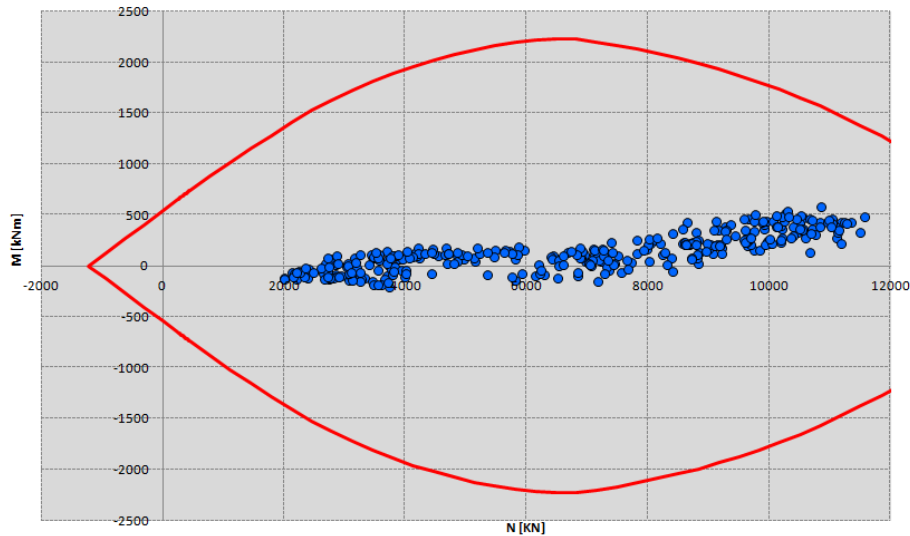
| Posizione | Armatura flettente Intradosso | Armatura flettente estradosso | Armatura a taglio | Classe calcestruzzo | Copriferro [cm] |
|---------------|-------------------------------|-------------------------------|-------------------|---------------------|-----------------|
| Calotta | 5Ø20/m | 5Ø20/m | 1Ø14/50/20 | C25/30 | 8 |
| Murette | 5Ø20/m | 5Ø20/m | 1Ø14/50/20 | C25/30 | 8 |
| Arco rovescio | 5Ø20/m | 5Ø20/m | - | C25/30 | 8 |

5.3.5.1.3 Calotta – verifiche allo SLU – pressoflessione

Le verifiche allo SLU del rivestimento definitivo prevedono il confronto tra le sollecitazioni di calcolo, ottenute moltiplicando i valori caratteristici restituiti dal modello di calcolo per il coefficiente parziale $\gamma_G = 1.3$, e le resistenze di calcolo definite dai punti M_{Rd} , N_{Rd} che individuano il dominio resistente della sezione nel piano M-N.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 36 di 73 |



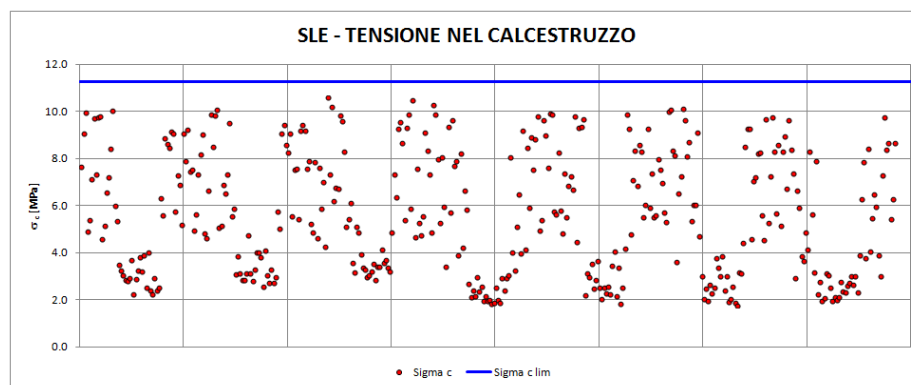
Calotta – spessore 1m – armatura: 5 Φ 20 in intradosso + 5 Φ 20 in estradosso

Figura 5.20: Verifiche allo S.L.U. per pressoflessione – calotta – dominio di resistenza della sezione e sollecitazioni di calcolo.

Le verifiche sono soddisfatte.

5.3.5.1.4 Calotta – verifiche allo SLE

Le verifiche allo S.L.E. risultano soddisfatte quando l'ampiezza delle fessure $w < 0.3\text{mm}$, la tensione massima nel calcestruzzo $\sigma_{c\text{ max}} \leq 0.45f_{ck} = 11.25\text{MPa}$ e la tensione massima nell'acciaio $\sigma_{s\text{ max}} \leq 0.8f_{yk} = 360\text{MPa}$.



Tensioni di compressione nel calcestruzzo - $\sigma_c < \sigma_{c,\text{max}}$

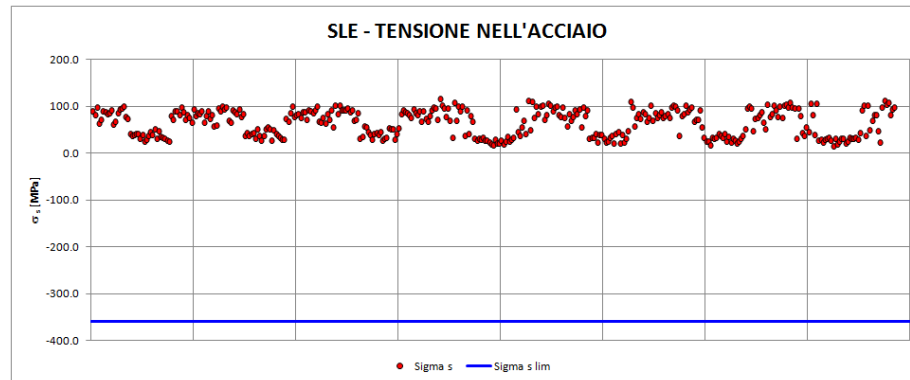
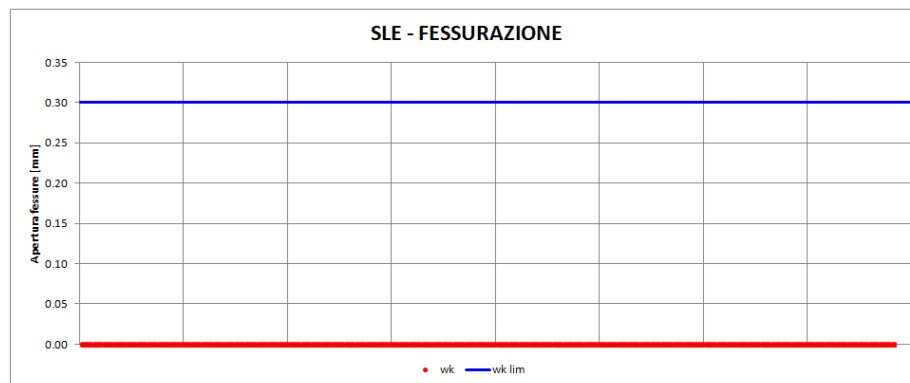
Tensioni nell'acciaio - $\sigma_s < \sigma_{s,max}$ Apertura delle fessure – $w < w_{lim} = 0.3\text{mm}$

Figura 5.21: Verifiche allo S.L.E. della sezione – calotta.

Le verifiche sono soddisfatte.

5.3.5.1.5 Calotta – verifiche allo SLU per sollecitazioni taglianti

Nel caso di elementi strutturali dotati di armature trasversali a taglio occorre verificare che il taglio sollecitante di progetto (V_{Ed}) sia minore di quello resistente (V_{Rd}); essendo:

$$V_{Rd} = \min(V_{Rsd}, V_{Rcd})$$

V_{Rsd} , è la resistenza di calcolo a “taglio trazione” dell’armatura trasversale

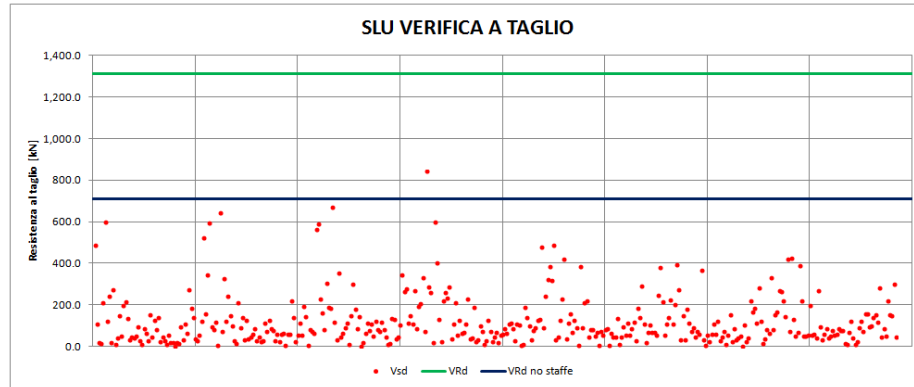
$$V_{Rsd} = 0.9 \cdot d \cdot (A_{sw}/s) \cdot f_{yd} \cdot (\text{ctg}\alpha + \text{ctg}\theta) \cdot \sin\alpha$$

V_{Rcd} , è la resistenza di calcolo a “taglio compressione” del calcestruzzo

$$V_{Rcd} = 0.9 \cdot d \cdot b_w \cdot \alpha_c f_{cd} (\text{ctg}\alpha + \text{ctg}\theta) / (1 + \text{ctg}^2\theta)$$

Per il significato delle diverse entità si rimanda al paragrafo 4.1.2.1.3.1 del NTC2008.

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>38 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 38 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 38 di 73 | | | | | | | | |



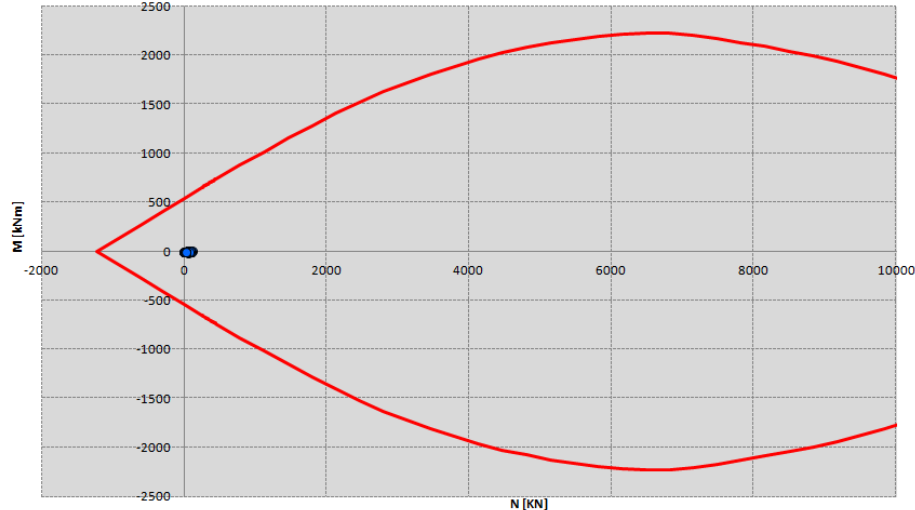
Calotta – spessore 1m – armatura a taglio: 1Φ14/50/20

Figura 5.22: Verifiche allo S.L.U. per sollecitazioni taglianti – calotta.

Le verifiche sono soddisfatte.

5.3.5.1.6 Arco rovescio – verifiche allo SLU – pressoflessione

Le verifiche allo SLU del rivestimento definitivo prevedono il confronto tra le sollecitazioni di calcolo, ottenute moltiplicando i valori caratteristici, restituiti dal modello di calcolo, per il coefficiente parziale $\gamma_G = 1.3$, e le resistenze di calcolo definite dai punti M_{Rd} , N_{Rd} che individuano il dominio resistente della sezione nel piano M-N.



Arco rovescio – spessore 1m – armatura: 5Φ20 in intradosso + 5Φ20 in estradosso

Figura 5.23: Verifiche allo S.L.U. per pressoflessione – arco rovescio – dominio di resistenza della sezione e sollecitazioni di calcolo.

Le verifiche sono soddisfatte.

5.3.5.1.7 Arco rovescio – verifiche allo SLE

Le verifiche allo S.L.E. risultano soddisfatte quando l'ampiezza delle fessure $w < 0.3\text{mm}$, la tensione massima nel calcestruzzo $\sigma_{c\text{max}} \leq 0.45f_{ck} = 11.25\text{MPa}$ e la tensione massima nell'acciaio $\sigma_{s\text{max}} \leq 0.8f_{yk} = 360\text{MPa}$.

RELAZIONE TECNICA E DI CALCOLO

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF1N

01 E ZZ

CL

GN0800 001

C

39 di 73

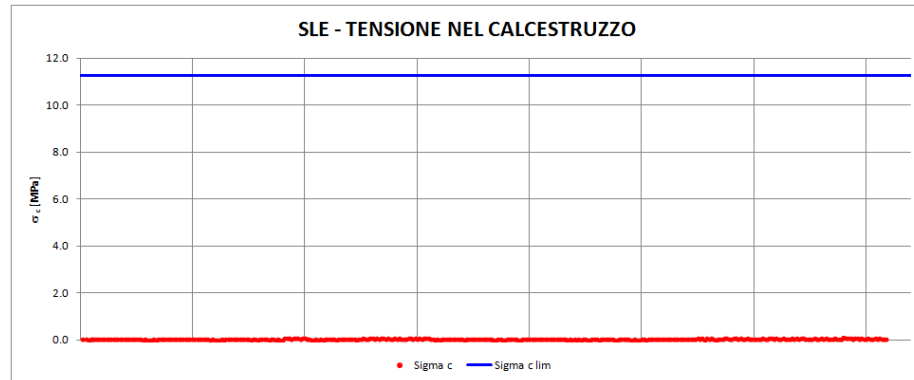
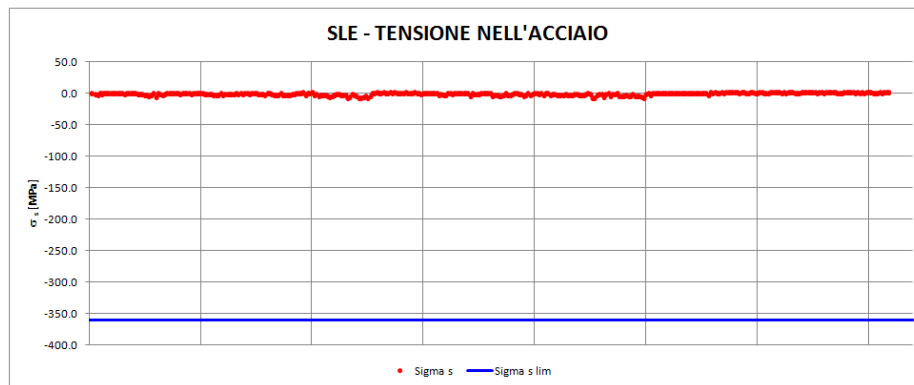
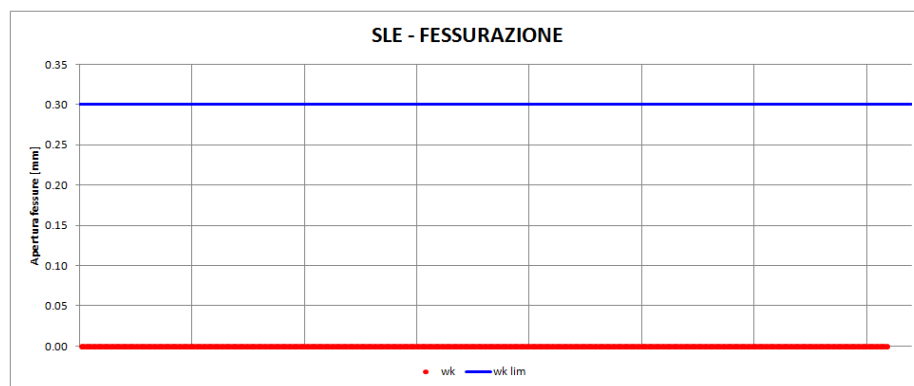
Tensioni di compressione nel calcestruzzo - $\sigma_c < \sigma_{c,max}$ Tensioni nell'acciaio - $\sigma_s < \sigma_{s,max}$ Apertura delle fessure - $w < w_{lim} = 0.3\text{mm}$

Figura 5.24: Verifiche allo S.L.E. della sezione – arco rovescio.

Le verifiche sono soddisfatte.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>40 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 40 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 40 di 73 | | | | | | | | |

5.3.5.1.8 Arco rovescio – verifiche allo SLU per sollecitazioni taglianti

Nel caso di elementi strutturali privi di armature trasversali a taglio, occorre verificare che il taglio di progetto (V_{Ed}) sia minore di quello resistente (V_{Rd}); essendo:

$$V_{Rd} = 0,18 \cdot k \cdot (100 \cdot \rho_1 \cdot f_{ck}) / \gamma_c + 0,15 \cdot \sigma_{cp} \cdot b_w \cdot d \geq (v_{min} + 0,15 \cdot \sigma_{cp}) \cdot b_w \cdot d$$

con

$$k = 1 + (200/d) \cdot 1/2 \leq 2$$

$$v_{min} = 0,035 \cdot k^{3/2} \cdot f_{ck}^{1/2}$$

d è l'altezza utile della sezione (mm);

$\rho_1 = A_{sl} / (b_w \cdot d)$ è il rapporto geometrico di armatura longitudinale (≤ 0.02);

$\sigma_{cp} = N_{Ed}/A_c$ è la tensione media di compressione nella sezione ($\leq 0.2 f_{cd}$);

b_w è la larghezza minima della sezione (mm).

Per il significato delle diverse entità si rimanda al paragrafo 4.1.2.1.3.1 del NTC2008.

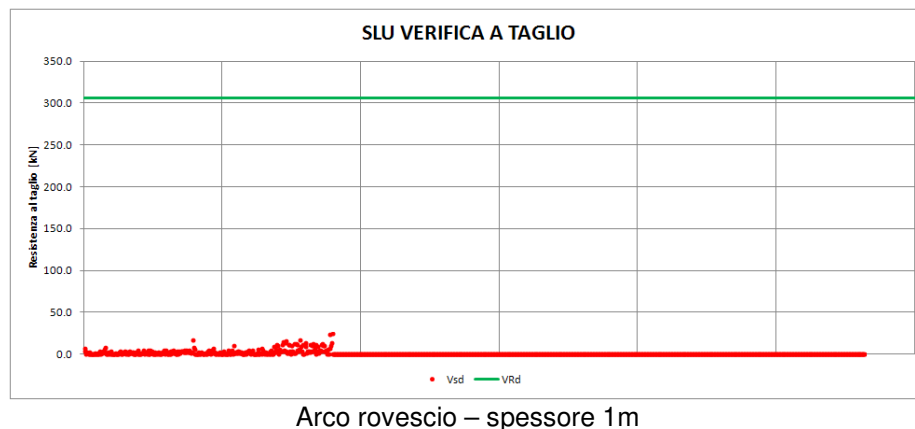


Figura 5.25: Verifiche allo S.L.U. per sollecitazioni taglianti – arco rovescio.

Le verifiche sono soddisfatte.

5.3.5.2 SEZIONE TIPO A2 LINEA

Nel presente paragrafo si illustrano le verifiche di resistenza del rivestimento definitivo della sezione A2 di linea del nodo d'innesto; tali verifiche sono riportate per via grafica.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>41 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 41 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 41 di 73 | | | | | | | | |

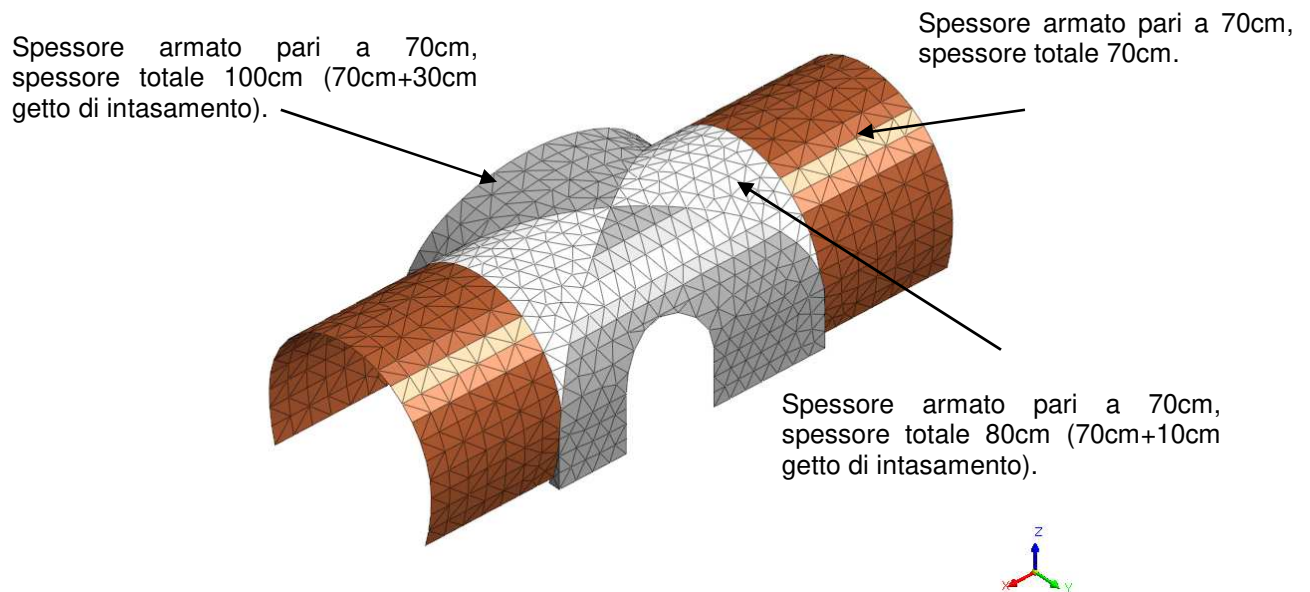


Figura 5.26: rivestimento definitivo della calotta della galleria di linea nella zona di innesto con evidenza delle diverse tipologie di rivestimento definitivo adottate.

5.3.5.2.1 Sollecitazioni agenti

Di seguito sono riportate le sollecitazioni (N, M e T) nel rivestimento definitivo della sezione in esame; i valori numerici (caratteristici e di calcolo) sono riportati nell'allegato specifico.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 42 di 73 |

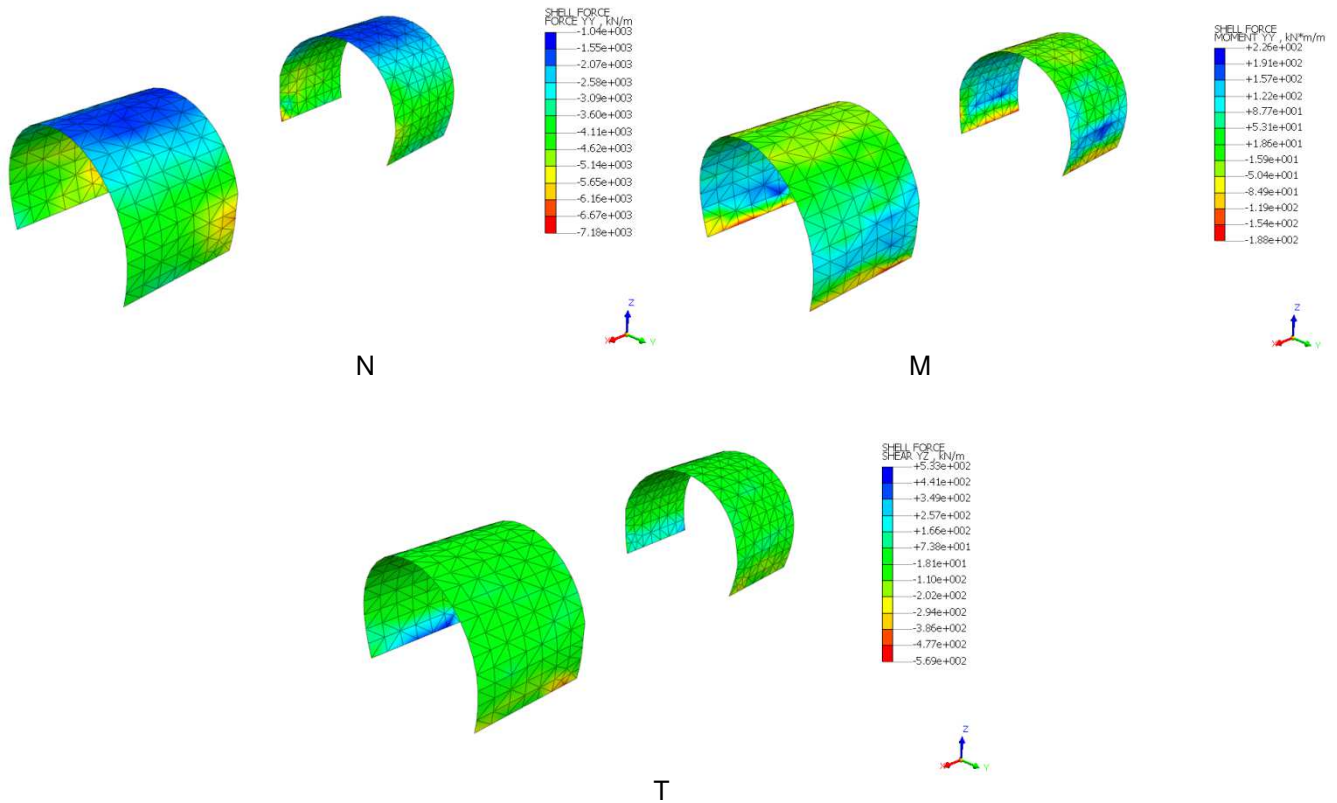


Figura 5.27: Sollecitazioni sul sostegno definitivo della galleria di linea nell'intorno del nodo d'innesto – calotta con spessore armato 70cm – (N<0 se di compressione) – stage finale.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 43 di 73 |

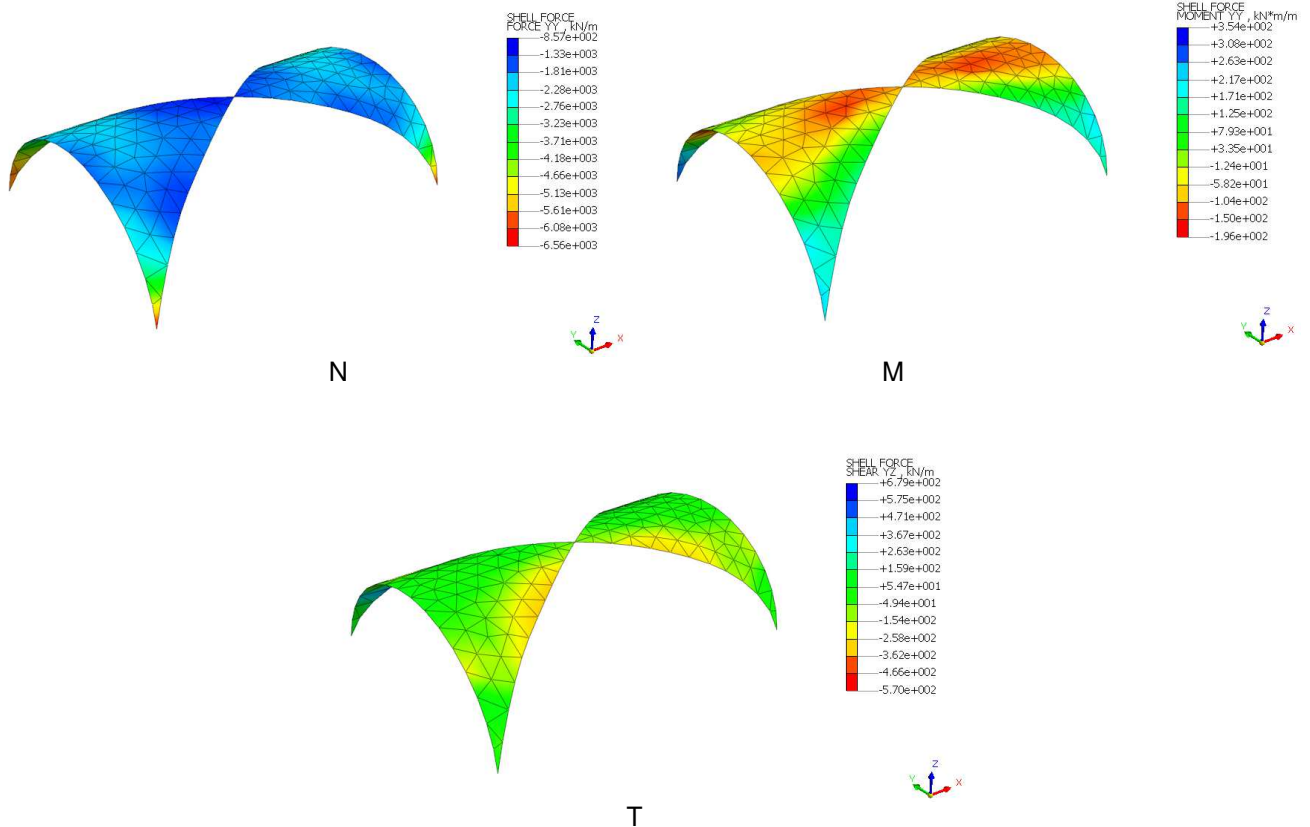


Figura 5.28: Sollecitazioni sul sostegno definitivo della galleria di linea nell'intorno del nodo d'innesto – calotta con spessore armato 70cm, spessore totale 80cm – (N<0 se di compressione) – stage finale.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 44 di 73 |

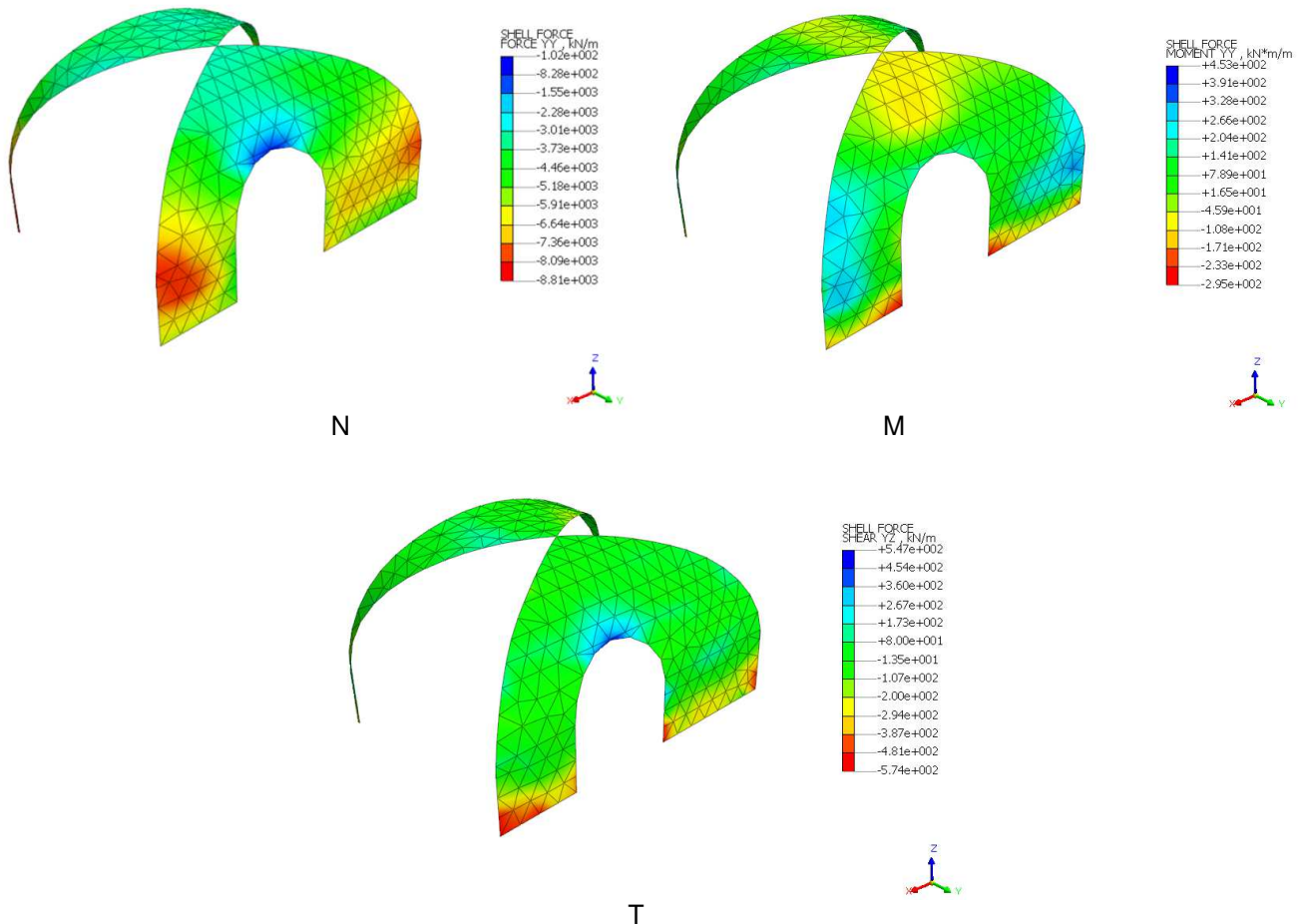


Figura 5.29: Sollecitazioni sul sostegno definitivo della galleria di linea nell'intorno del nodo d'innesto – calotta con spessore armato 70cm, spessore totale 100cm – (N<0 se di compressione) – stage finale.

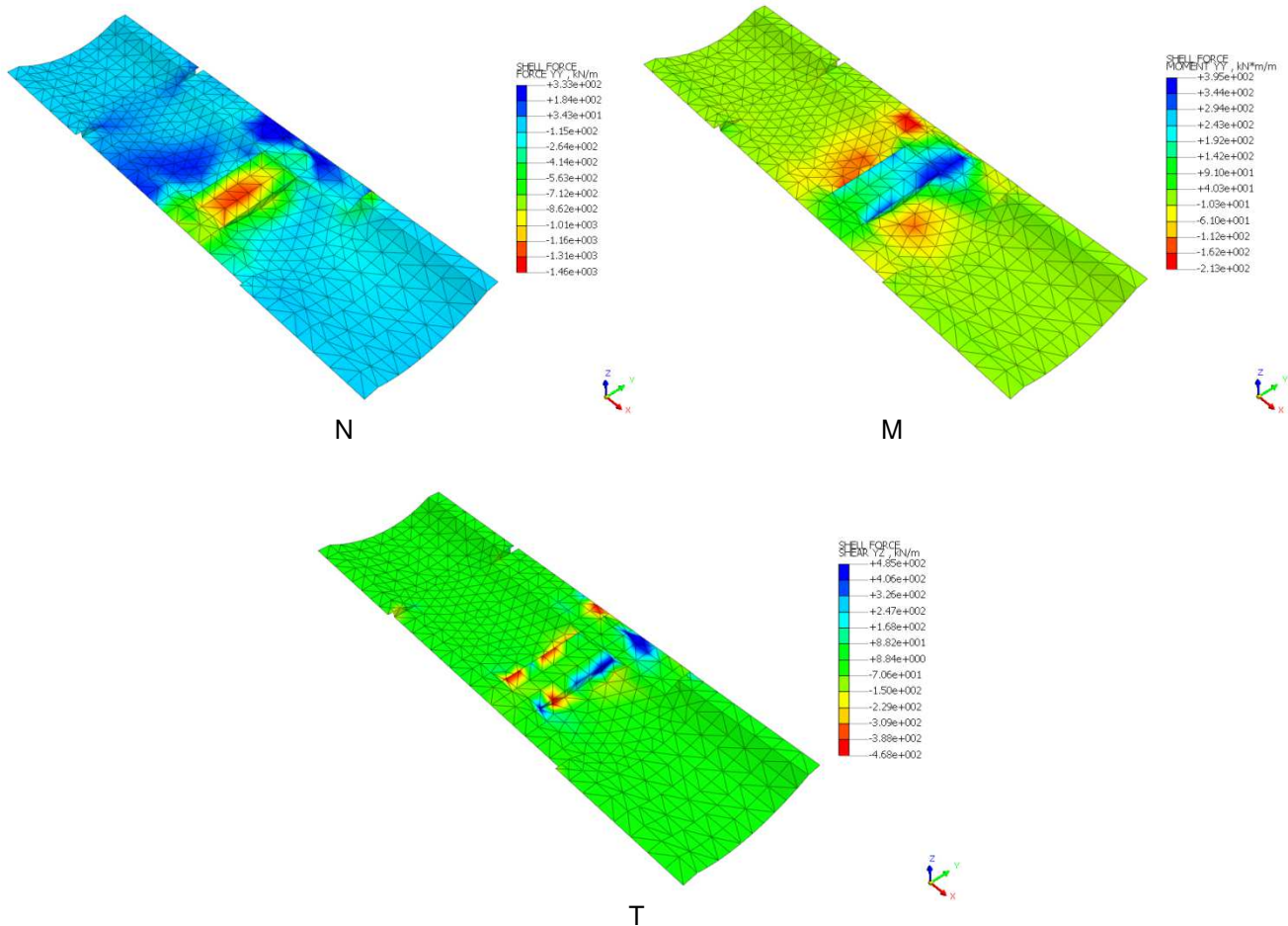


Figura 5.30: Sollecitazioni sul sostegno definitivo della galleria di linea nell'intorno del nodo d'innesto – arco rovescio – (N<0 se di compressione) – stage finale.

5.3.5.2.2 Armatura disposta

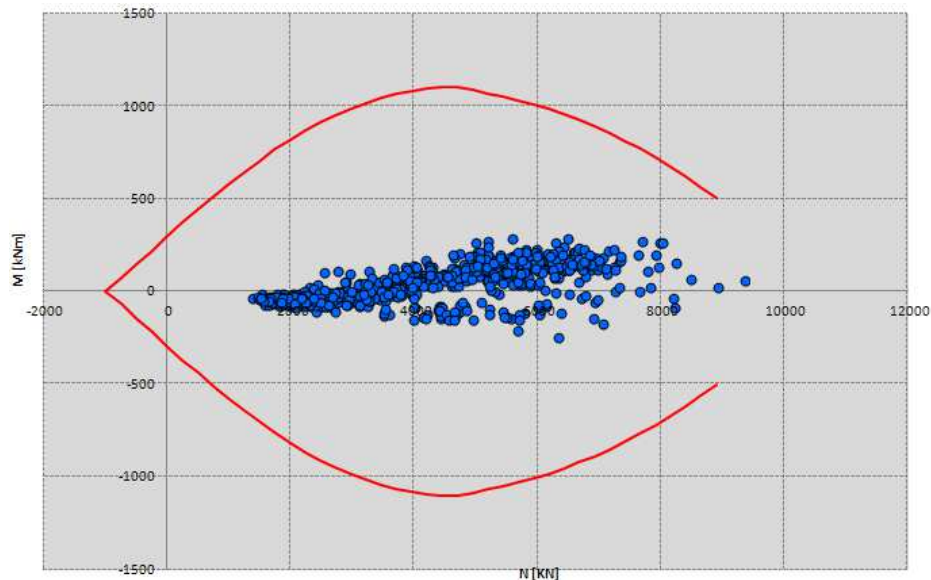
Nella tabella seguente sono riassunte le armature previste per la sezione tipo A2.

Tabella 20: armatura prevista per la sezione tipo A2.

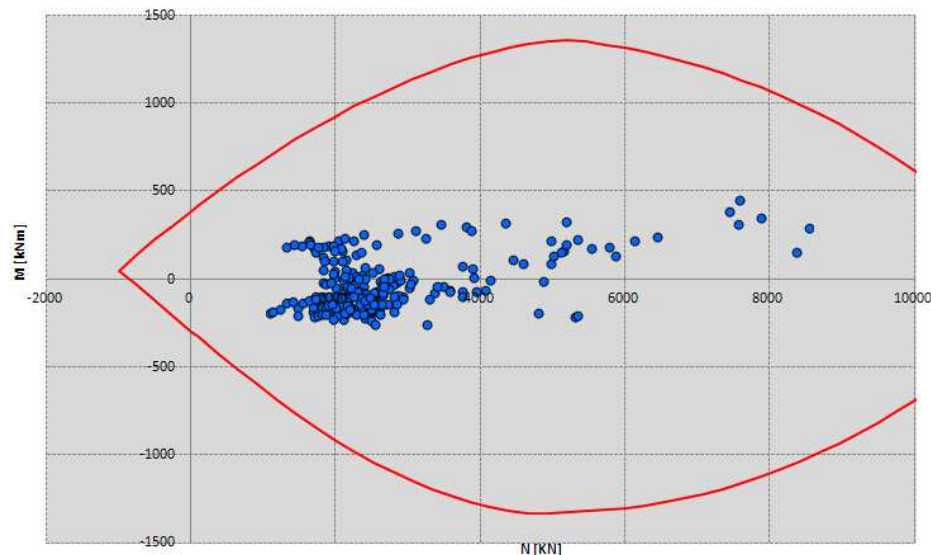
| Posizione | Armatura flettente Intradosso | Armatura flettente estradosso | Armatura a taglio | Classe calcestruzzo | Copriferro [cm] |
|---|-------------------------------|-------------------------------|-------------------|---------------------|-----------------|
| Calotta | 5Ø18/m | 5Ø18/m | 1Ø14/50/20 | C25/30 | 8 |
| Murette | 5Ø18/m | 5Ø18/m | 1Ø14/50/20 | C25/30 | 8 |
| Arco rovescio | 5Ø20/m | 5Ø20/m | 1Ø14/50/33 | C25/30 | 8 |
| Soletta piatta in corrispondenza del sottoattraversamento | 5Ø24/m | 5Ø24/m | - | C25/30 | 8 |

5.3.5.2.3 Calotta – verifiche allo SLU – pressoflessione

Le verifiche allo SLU del rivestimento definitivo prevedono il confronto tra le sollecitazioni di calcolo, ottenute moltiplicando i valori caratteristici restituiti dal modello di calcolo per il coefficiente parziale $\gamma_G = 1.3$, e le resistenze di calcolo definite dai punti M_{Rd} , N_{Rd} che individuano il dominio resistente della sezione nel piano M-N.

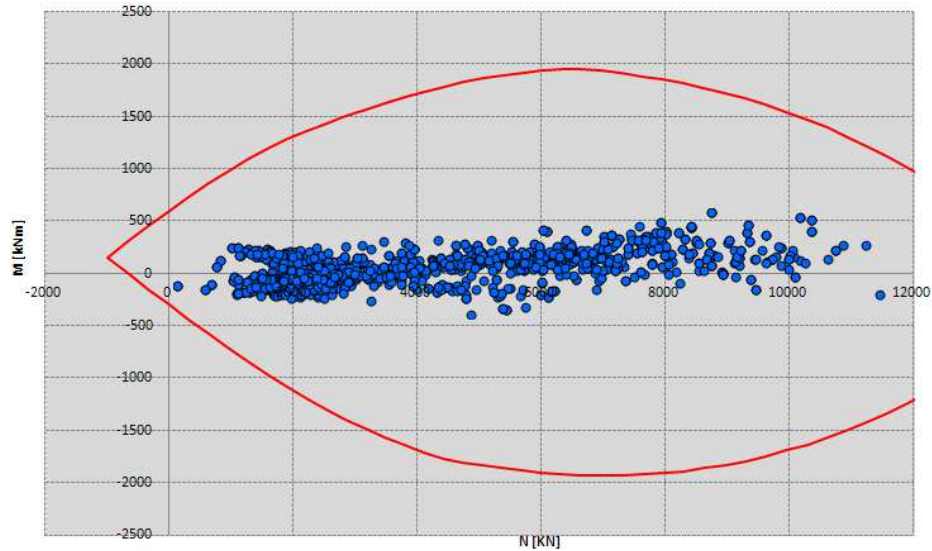


Calotta – spessore totale 70cm – armatura: 5Φ18 in intradosso + 5Φ18 in estradosso



Calotta – spessore armato 70cm, spessore totale 80cm – armatura: 5Φ18 in intradosso + 5Φ18 in estradosso

Figura 5.31: Verifiche allo S.L.U. per pressoflessione – calotta – dominio di resistenza della sezione e sollecitazioni di calcolo.



Calotta – spessore armato 70cm, spessore totale 100cm – armatura: 5 Φ 18 in intradosso + 5 Φ 18 in estradosso

Figura 5.32: Verifiche allo S.L.U. per pressoflessione – calotta – dominio di resistenza della sezione e sollecitazioni di calcolo.

Le verifiche sono soddisfatte.

5.3.5.2.4 Calotta – verifiche allo SLE

Le verifiche allo S.L.E. risultano soddisfatte quando l'ampiezza delle fessure $w < 0.3\text{mm}$, la tensione massima nel calcestruzzo $\sigma_{c\text{ max}} \leq 0.45f_{ck} = 11.25\text{MPa}$ e la tensione massima nell'acciaio $\sigma_{s\text{ max}} \leq 0.8f_{yk} = 360\text{MPa}$.

RELAZIONE TECNICA E DI CALCOLO

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF1N

01 E ZZ

CL

GN0800 001

C

48 di 73

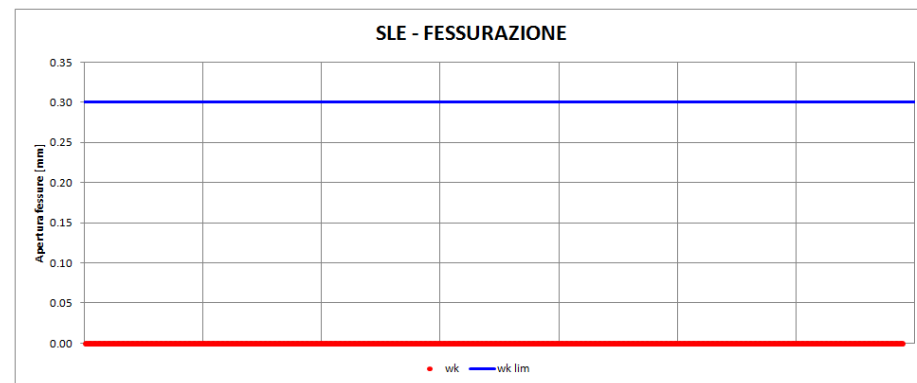
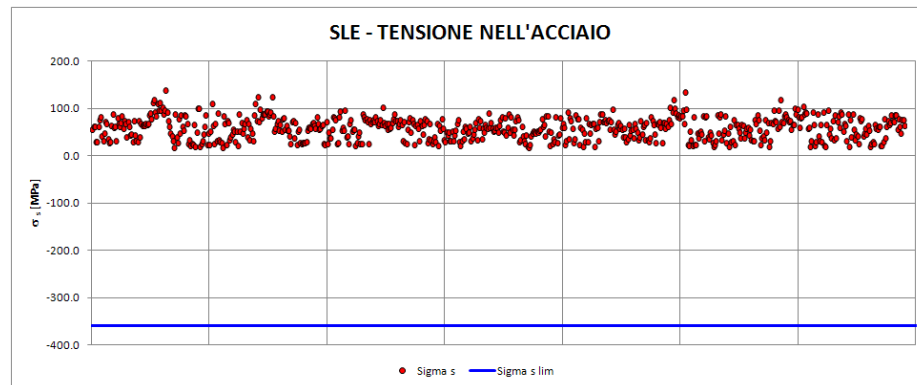
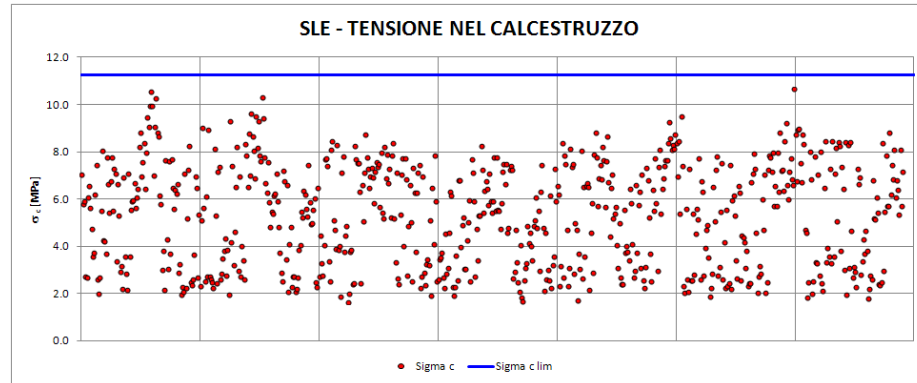


Figura 5.33: Verifiche allo S.L.E. della sezione – calotta – spessore 70cm.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 49 di 73 |

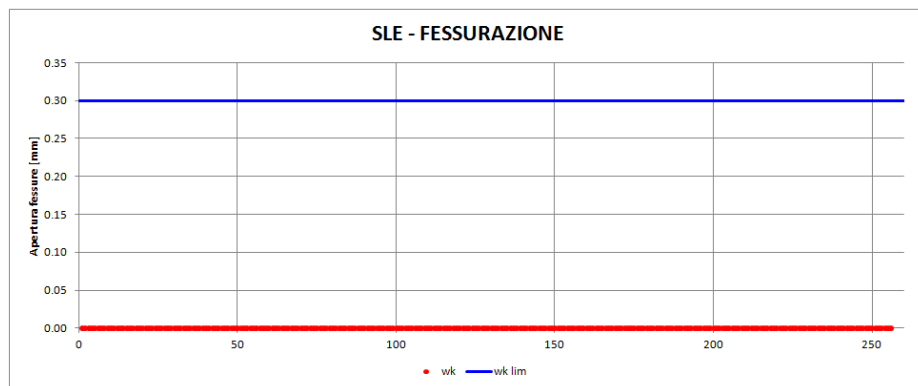
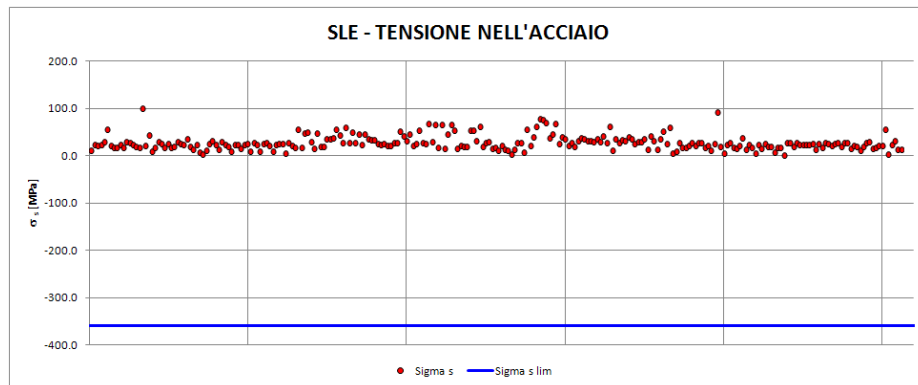
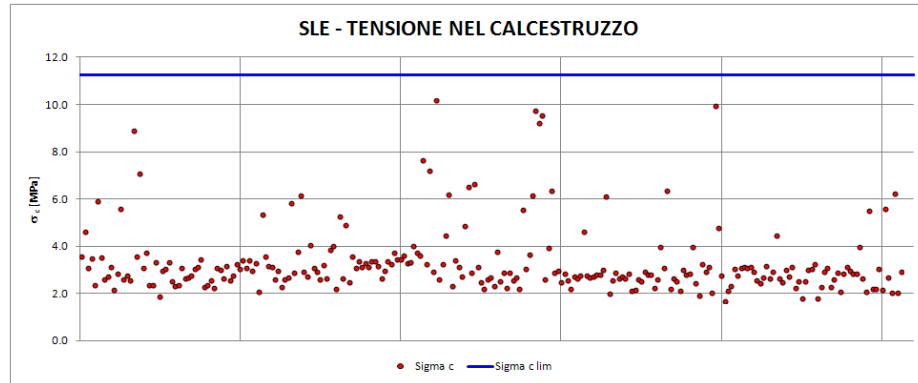


Figura 5.34: Verifiche allo S.L.E. della sezione – calotta – spessore armato 70cm, spessore totale 80cm.

RELAZIONE TECNICA E DI CALCOLO

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF1N

01 E ZZ

CL

GN0800 001

C

50 di 73

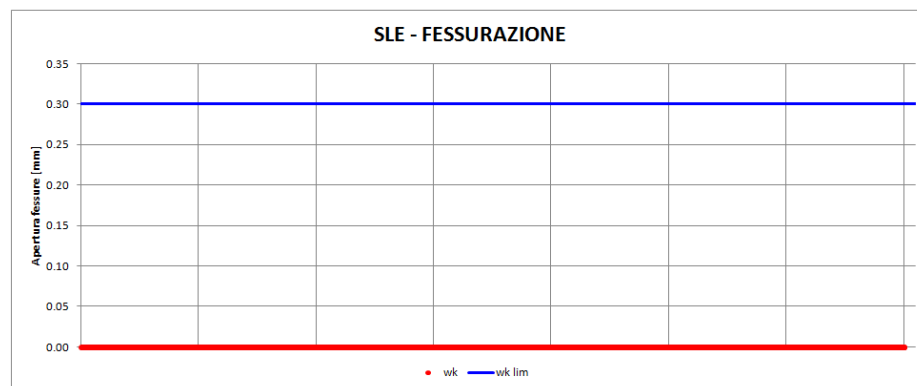
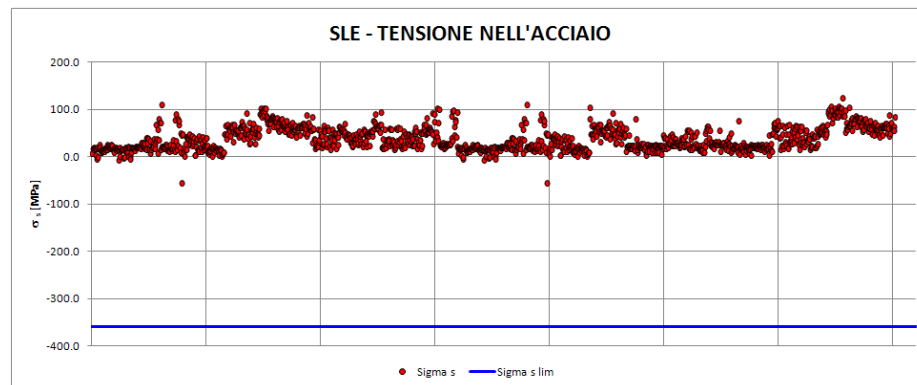
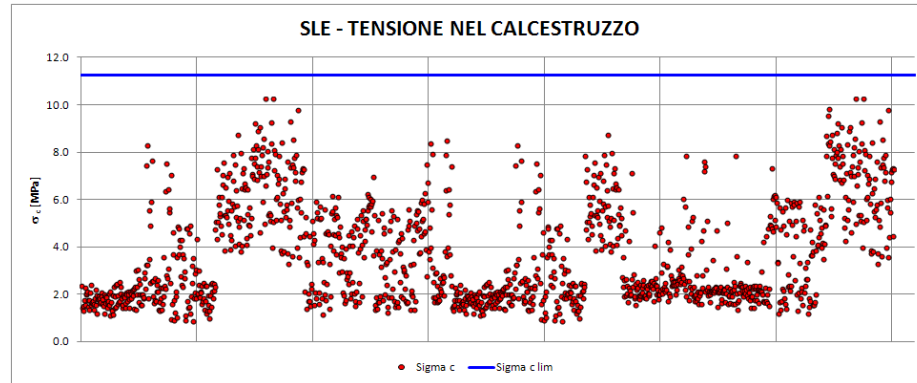


Figura 5.35: Verifiche allo S.L.E. della sezione – calotta – spessore armato 70cm, spessore totale 100cm.

Le verifiche sono soddisfatte.

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>51 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 51 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 51 di 73 | | | | | | | | |

5.3.5.2.5 Calotta – verifiche allo SLU per sollecitazioni taglienti

Nel caso di elementi strutturali dotati di armature trasversali a taglio occorre verificare che il taglio sollecitante di progetto (V_{Ed}) sia minore di quello resistente (V_{Rd}); essendo:

$$V_{Rd} = \min (V_{Rsd}, V_{Rcd})$$

V_{Rsd} , è la resistenza di calcolo a “taglio trazione” dell’armatura trasversale

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

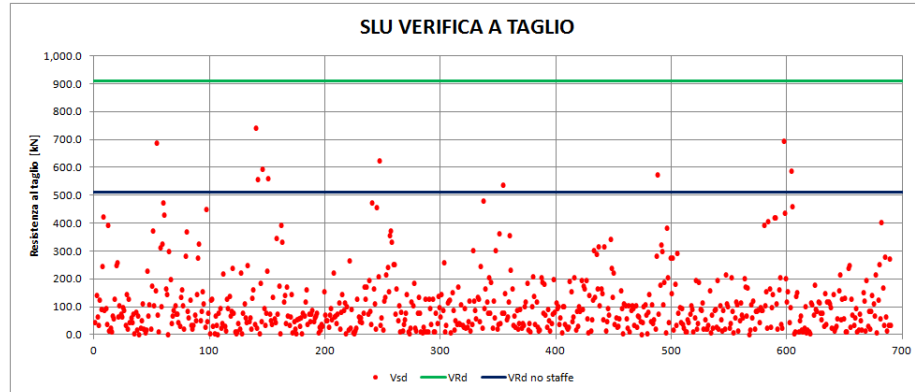
V_{Rcd} , è la resistenza di calcolo a “taglio compressione” del calcestruzzo

$$V_{Rcd} = 0.9 \cdot d \cdot b_w \cdot \alpha_c f_{cd} (\text{ctg}\alpha + \text{ctg}\theta) / (1 + \text{ctg}^2\theta)$$

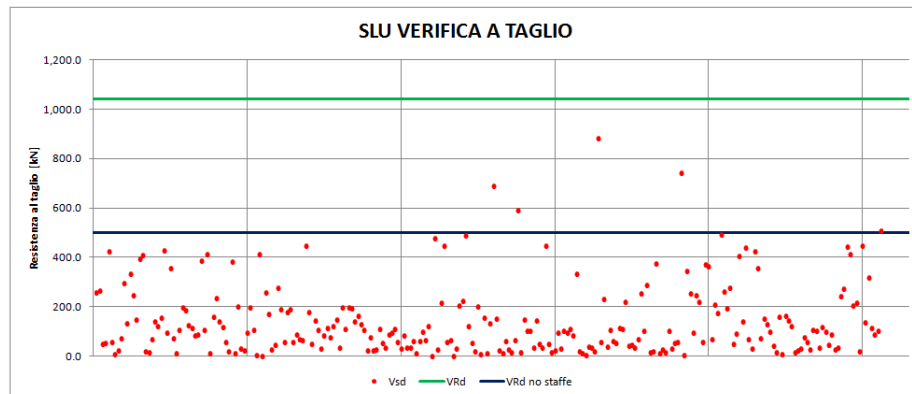
Per il significato delle diverse entità si rimanda al paragrafo 4.1.2.1.3.1 del NTC2008.

RELAZIONE TECNICA E DI CALCOLO

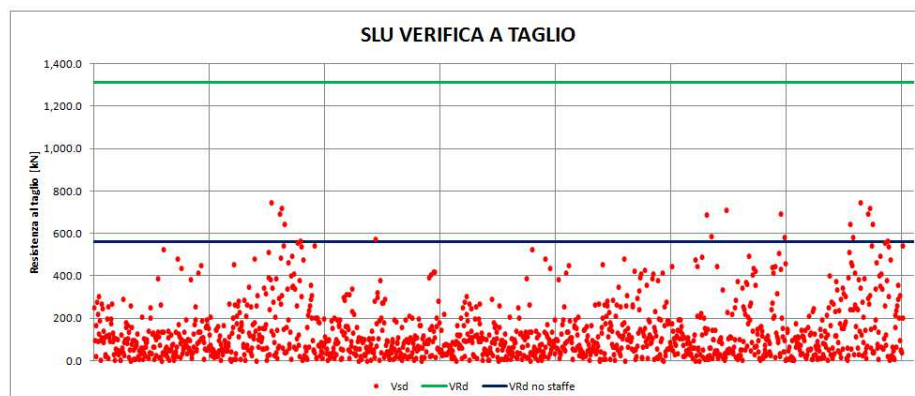
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 52 di 73 |



Calotta – spessore 70cm – armatura a taglio: 1Φ14/50/20



Calotta – spessore armato 70cm, spessore totale 80cm – armatura a taglio: 1Φ14/50/20



Calotta – spessore armato 70cm, spessore totale 100cm – armatura a taglio: 1Φ14/50/20

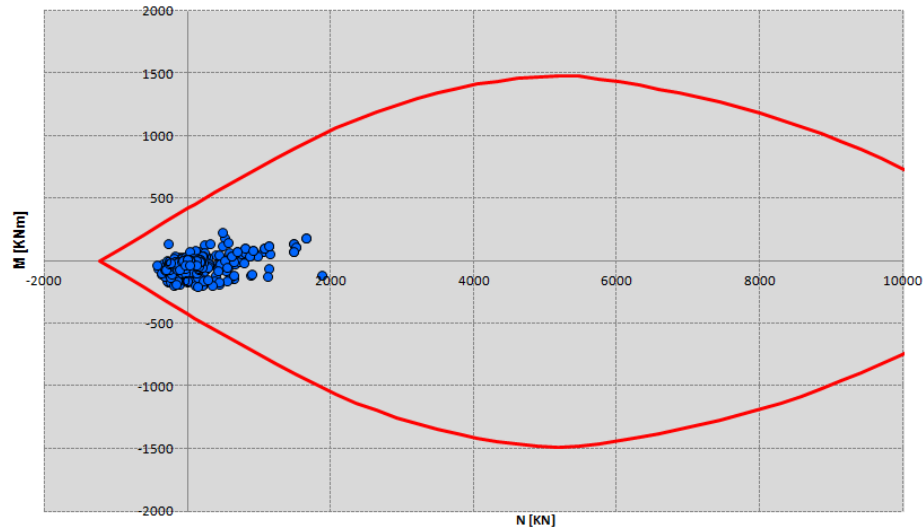
Figura 5.36: Verifiche allo S.L.U. per sollecitazioni taglianti – calotta.

Le verifiche sono soddisfatte.

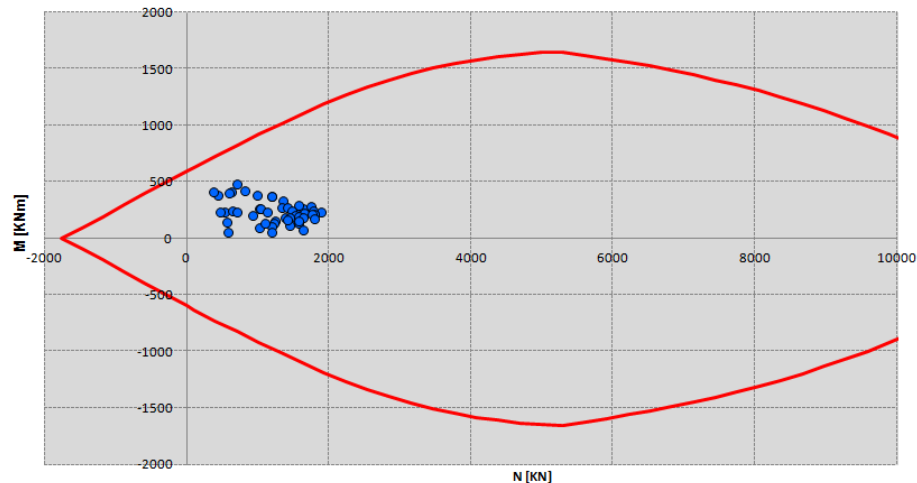
| | | | | | | |
|--|---|------------------|----------------|-------------------------|-----------|--------------------|
|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | COMMESSA IF1N | LOTTO 01 E ZZ | CODIFICA CL | DOCUMENTO GN0800 001 | REV. C | FOGLIO 53 di 73 |

5.3.5.2.6 Arco rovescio – verifiche allo SLU – pressoflessione

Le verifiche allo SLU del rivestimento definitivo prevedono il confronto tra le sollecitazioni di calcolo, ottenute moltiplicando i valori caratteristici, restituiti dal modello di calcolo, per il coefficiente parziale $\gamma_G = 1.3$, e le resistenze di calcolo definite dai punti M_{Rd} , N_{Rd} che individuano il dominio resistente della sezione nel piano M-N.



Arco rovescio – spessore 80cm – armatura: 5 Φ 20 in intradosso + 5 Φ 20 in estradosso



Soletta piatta – spessore 80cm – armatura: 5 Φ 24 in intradosso + 5 Φ 24 in estradosso

Figura 5.37: Verifiche allo S.L.U. per pressoflessione – arco rovescio e soletta piatta – dominio di resistenza della sezione e sollecitazioni di calcolo.

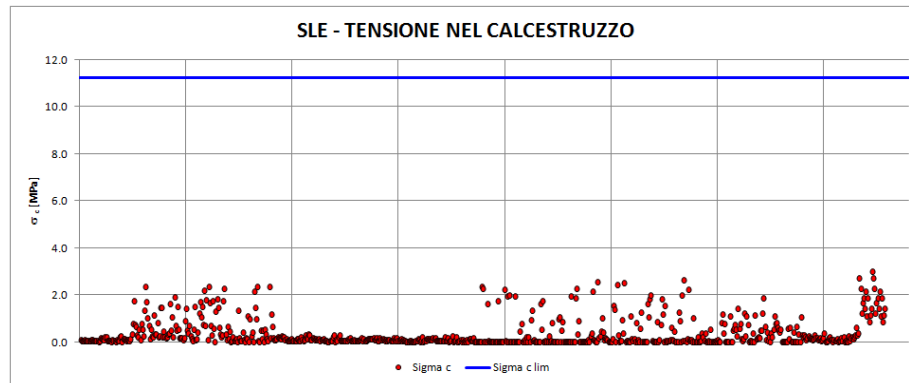
Le verifiche sono soddisfatte.

5.3.5.2.7 Arco rovescio – verifiche allo SLE

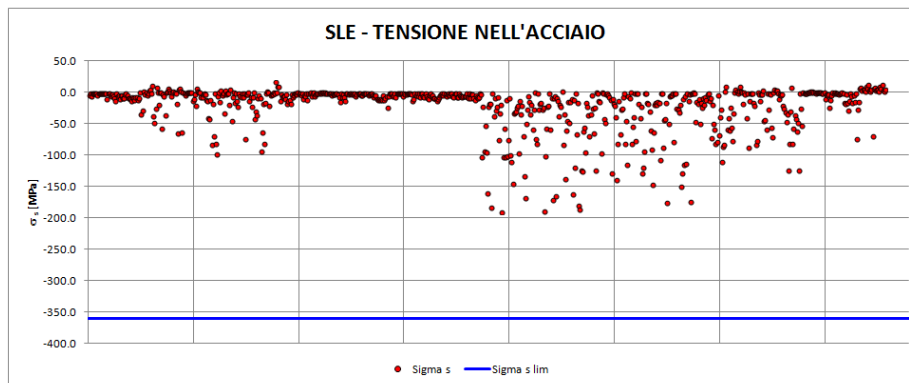
Le verifiche allo S.L.E. risultano soddisfatte quando l'ampiezza delle fessure $w < 0.3\text{mm}$, la tensione massima nel calcestruzzo $\sigma_{c \max} \leq 0.45f_{ck} = 11.25\text{MPa}$ e la tensione massima nell'acciaio $\sigma_{s \max} \leq 0.8f_{yk} = 360\text{MPa}$.

RELAZIONE TECNICA E DI CALCOLO

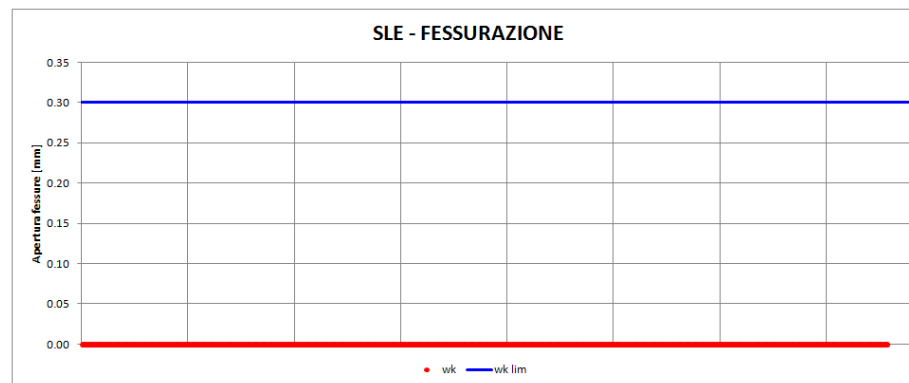
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 54 di 73 |



Tensioni di compressione nel calcestruzzo - $\sigma_c < \sigma_{c,max}$

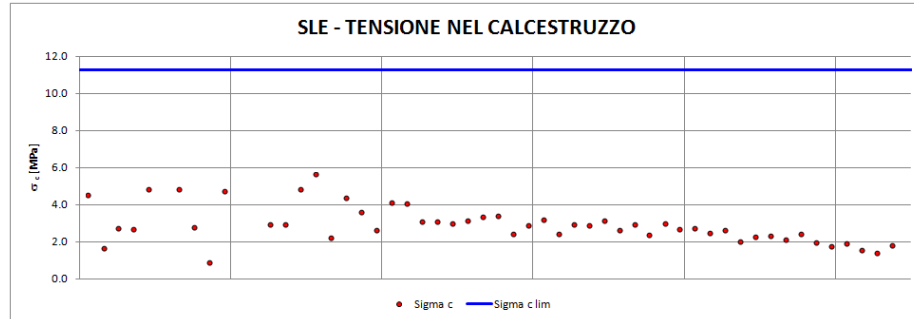


Tensioni nell'acciaio - $\sigma_s < \sigma_{s,max}$

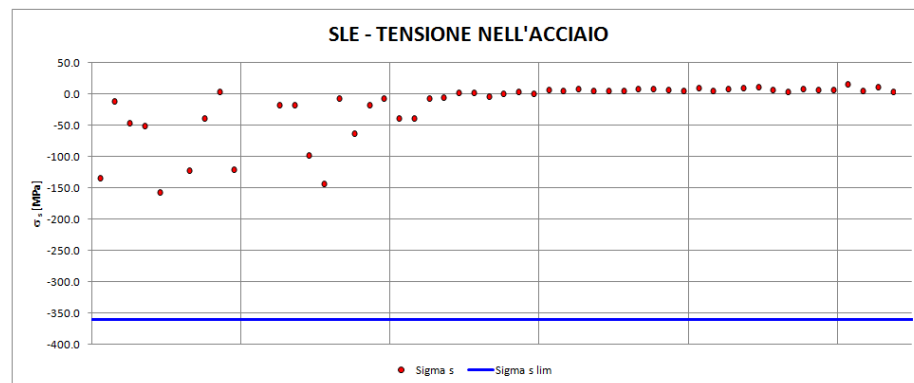


Apertura delle fessure - $w < w_{lim} = 0.3\text{mm}$

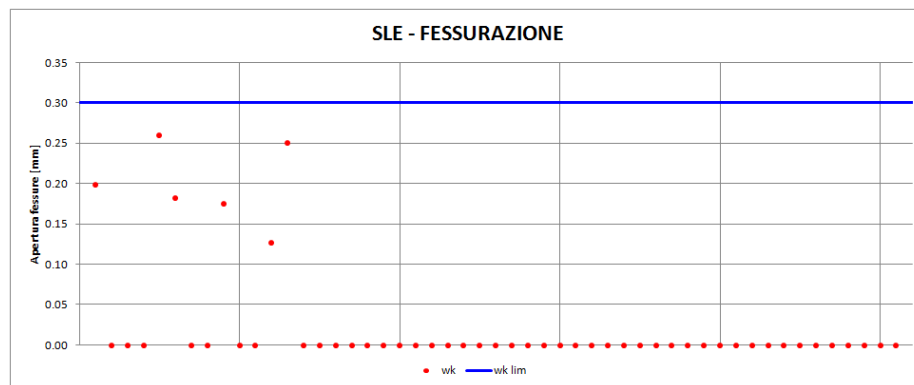
Figura 5.38: Verifiche allo S.L.E. della sezione – arco rovescio.



Tensioni di compressione nel calcestruzzo - $\sigma_c < \sigma_{c,max}$



Tensioni nell'acciaio - $\sigma_s < \sigma_{s,max}$



Apertura delle fessure - $w < w_{lim} = 0.3\text{mm}$

Figura 5.39: Verifiche allo S.L.E. della sezione – soletta piatta.

Le verifiche sono soddisfatte.

5.3.5.2.8 Arco rovescio – verifiche allo SLU per sollecitazioni taglianti

Nel caso di elementi strutturali dotati di armature trasversali a taglio occorre verificare che il taglio sollecitante di progetto (V_{Ed}) sia minore di quello resistente (V_{Rd}); essendo:

$$V_{Rd} = \min(V_{Rsd}, V_{Rcd})$$

V_{Rsd} , è la resistenza di calcolo a “taglio trazione” dell’armatura trasversale

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>56 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 56 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 56 di 73 | | | | | | | | |

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

V_{Rcd} , è la resistenza di calcolo a “taglio compressione” del calcestruzzo

$$V_{Rcd} = 0.9 \cdot d \cdot b_w \cdot \alpha_c \cdot f'_{cd} (\text{ctg}\alpha + \text{ctg}\theta) / (1 + \text{ctg}^2\theta)$$

Nel caso di elementi strutturali privi di armature trasversali a taglio, occorre verificare che il taglio di progetto (V_{Ed}) sia minore di quello resistente (V_{Rd}); essendo:

$$V_{Rd} = 0,18 \cdot k \cdot (100 \cdot \rho_1 \cdot f_{ck}) / \gamma_c + 0,15 \cdot \sigma_{cp} \cdot b_w \cdot d \geq (v_{min} + 0,15 \cdot \sigma_{cp}) \cdot b_w \cdot d$$

con

$$k = 1 + (200/d) \cdot 1/2 \leq 2$$

$$v_{min} = 0,035 \cdot k^{3/2} \cdot f_{ck}^{1/2}$$

d è l'altezza utile della sezione (mm);

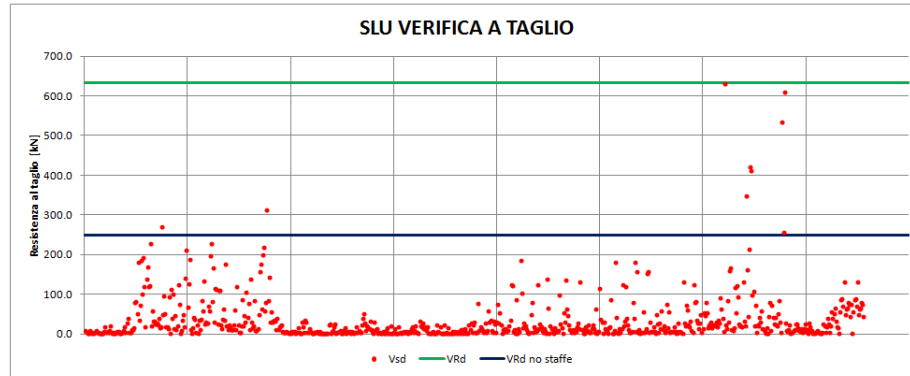
$\rho_1 = A_{sl} / (b_w \cdot d)$ è il rapporto geometrico di armatura longitudinale (≤ 0.02);

$\sigma_{cp} = N_{Ed}/A_c$ è la tensione media di compressione nella sezione ($\leq 0.2 f_{cd}$);

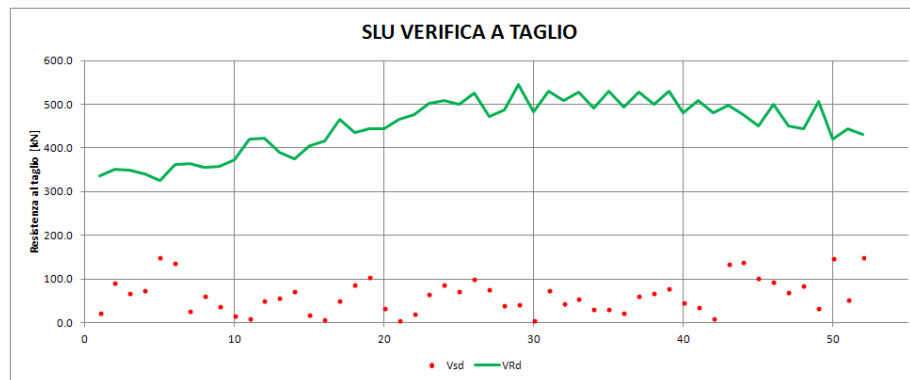
b_w è la larghezza minima della sezione (mm).

Per il significato delle diverse entità si rimanda al paragrafo 4.1.2.1.3.1 del NTC2008.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>57 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 57 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 57 di 73 | | | | | | | | |



Arco rovescio – spessore 80cm – armatura a taglio: 1Φ14/50/33



Soletta piatta – spessore 80cm

Figura 5.40: Verifiche allo S.L.U. per sollecitazioni taglianti – arco rovescio e soletta piatta.

Le verifiche sono soddisfatte.

5.3.5.3 SEZIONE TIPO CAMERA DI ESODO IN CALCARI

Nel presente paragrafo si illustrano le verifiche di resistenza del rivestimento definitivo della sezione camera di esodo del nodo d'innesto; tali verifiche sono riportate per via grafica.

5.3.5.3.1 Sollecitazioni agenti

Di seguito sono riportate le sollecitazioni (N, M e T) nel rivestimento definitivo della sezione in esame; i valori numerici (caratteristici e di calcolo) sono riportati nell'allegato specifico.

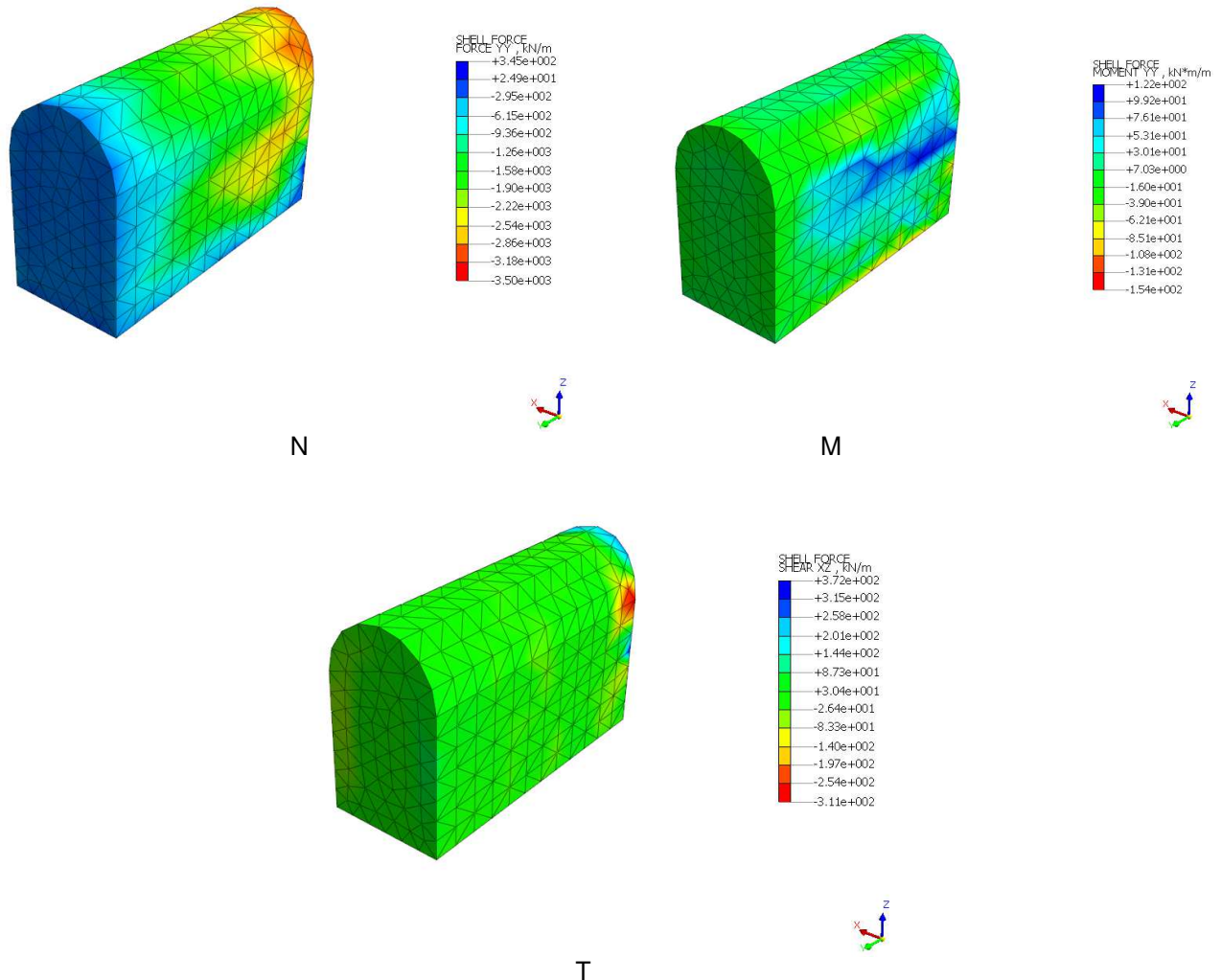


Figura 5.41: Sollecitazioni sul rivestimento definitivo della camera di esodo – (N<0 se di compressione) – stage finale.

5.3.5.3.2 Armatura disposta

Nella tabella seguente sono riassunte le armature previste per la sezione tipo camera di esodo.

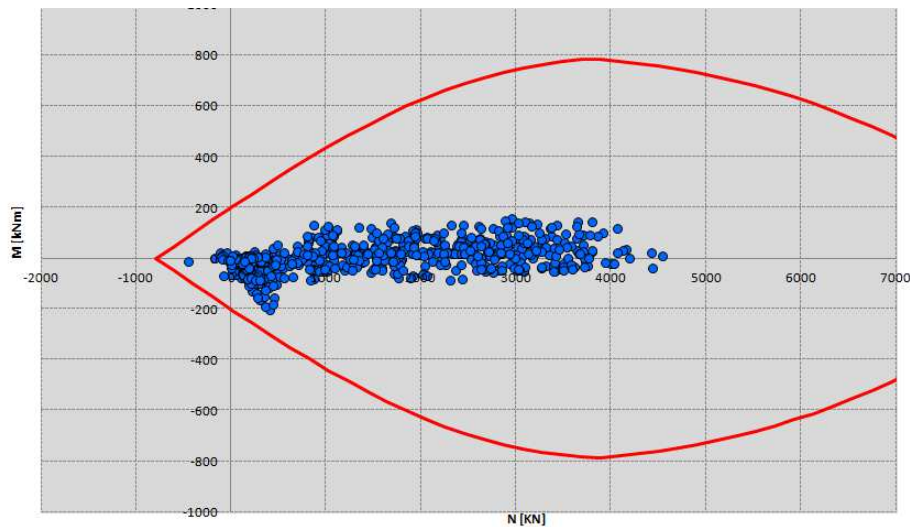
Tabella 21: armatura prevista per la sezione tipo camera di esodo.

| Posizione | Armatura flettente Intradosso | Armatura flettente estradosso | Armatura a taglio | Classe calcestruzzo | Copriferro [cm] |
|----------------|-------------------------------|-------------------------------|-------------------|---------------------|-----------------|
| Calotta | 5Ø16/m | 5Ø16/m | 1Ø14/50/20 | C25/30 | 8 |
| Murette | 5Ø16/m | 5Ø16/m | 1Ø14/50/20 | C25/30 | 8 |
| Soletta piatta | 5Ø16/m | 5Ø16/m | 1Ø14/50/20 | C25/30 | 8 |

|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>59 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 59 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 59 di 73 | | | | | | | | |

5.3.5.3.3 Calotta e soletta piatta – verifiche allo SLU – pressoflessione

Le verifiche allo SLU del rivestimento definitivo prevedono il confronto tra le sollecitazioni di calcolo, ottenute moltiplicando i valori caratteristici restituiti dal modello di calcolo per il coefficiente parziale $\gamma_G = 1.3$, e le resistenze di calcolo definite dai punti M_{Rd} , N_{Rd} che individuano il dominio resistente della sezione nel piano M-N.



Calotta e soletta piatta – spessore 60cm – armatura: 5 Φ 16 in intradosso + 5 Φ 16 in estradosso

Figura 5.42: Verifiche allo S.L.U. per pressoflessione – calotta e soletta piatta – dominio di resistenza della sezione e sollecitazioni di calcolo.

Le verifiche sono soddisfatte.

5.3.5.3.4 Calotta e soletta piatta – verifiche allo SLE

Le verifiche allo S.L.E. risultano soddisfatte quando l'ampiezza delle fessure $w < 0.3\text{mm}$, la tensione massima nel calcestruzzo $\sigma_{c\text{ max}} \leq 0.45f_{ck} = 11.25\text{MPa}$ e la tensione massima nell'acciaio $\sigma_{s\text{ max}} \leq 0.8f_{yk} = 360\text{MPa}$.

RELAZIONE TECNICA E DI CALCOLO

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF1N

01 E ZZ

CL

GN0800 001

C

60 di 73

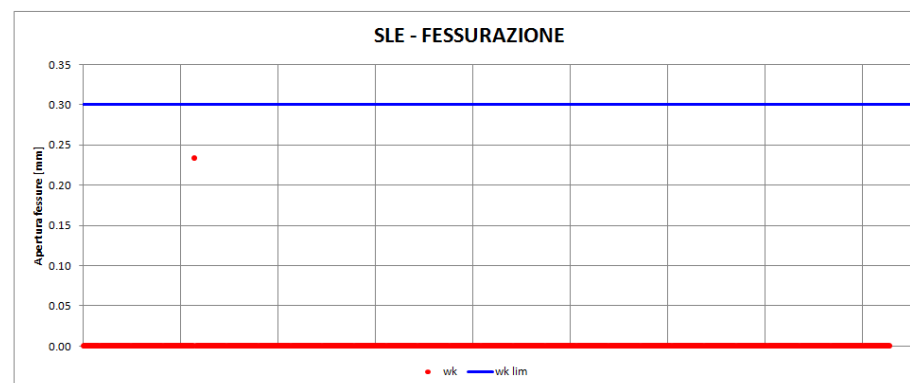
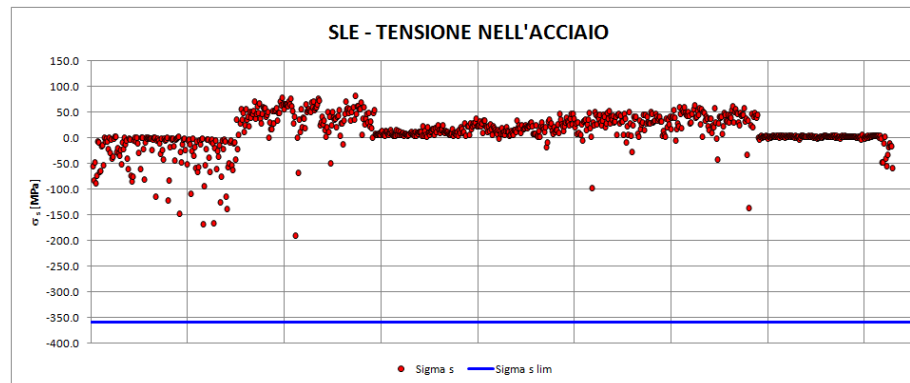
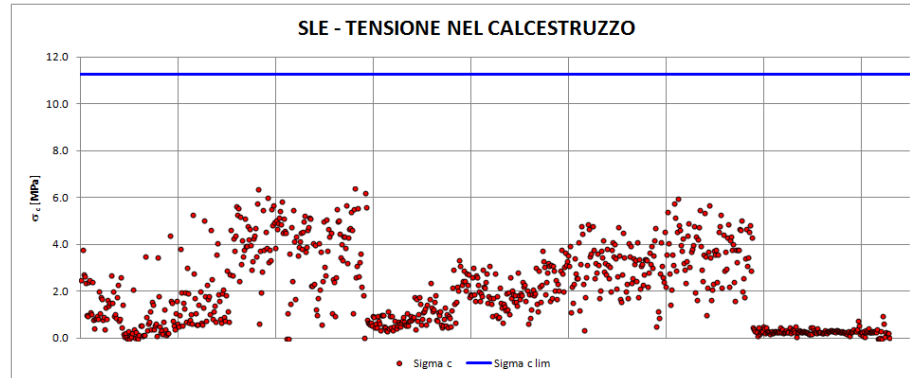


Figura 5.43: Verifiche allo S.L.E. della sezione – calotta e soletta piatta.

Le verifiche sono soddisfatte.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>61 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 61 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 61 di 73 | | | | | | | | |

5.3.5.3.5 Calotta e soletta piatta – verifiche allo SLU per sollecitazioni taglianti

Nel caso di elementi strutturali dotati di armature trasversali a taglio occorre verificare che il taglio sollecitante di progetto (V_{Ed}) sia minore di quello resistente (V_{Rd}); essendo:

$$V_{Rd} = \min (V_{Rsd}, V_{Rcd})$$

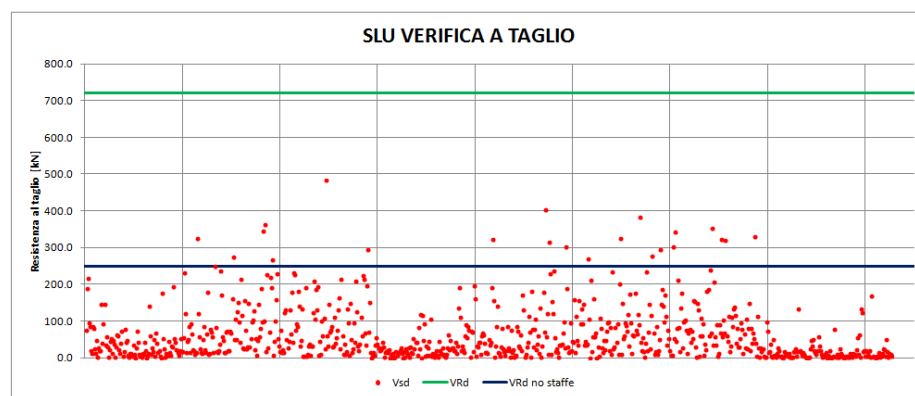
V_{Rsd} , è la resistenza di calcolo a “taglio trazione” dell’armatura trasversale

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

V_{Rcd} , è la resistenza di calcolo a “taglio compressione” del calcestruzzo

$$V_{Rcd} = 0.9 \cdot d \cdot b_w \cdot \alpha_c f_{cd} (\text{ctg}\alpha + \text{ctg}\theta) / (1 + \text{ctg}^2\theta)$$

Per il significato delle diverse entità si rimanda al paragrafo 4.1.2.1.3.1 del NTC2008.



Calotta e soletta piatta – spessore 60cm – armatura a taglio: 1Φ14/50/20

Figura 5.44: Verifiche allo S.L.U. per sollecitazioni taglianti – calotta e soletta piatta.

Le verifiche sono soddisfatte.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>62 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 62 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 62 di 73 | | | | | | | | |

5.3.5.4 SEZIONE TIPO SOTTO ATTRAVERSAMENTO

Nel presente paragrafo si illustrano le verifiche di resistenza del rivestimento definitivo della sezione sotto attraversamento del nodo d'innesto; tali verifiche sono riportate per via grafica.

5.3.5.4.1 Sollecitazioni agenti

Di seguito sono riportate le sollecitazioni (N, M e T) nel rivestimento definitivo della sezione in esame; i valori numerici (caratteristici e di calcolo) sono riportati nell'allegato specifico.

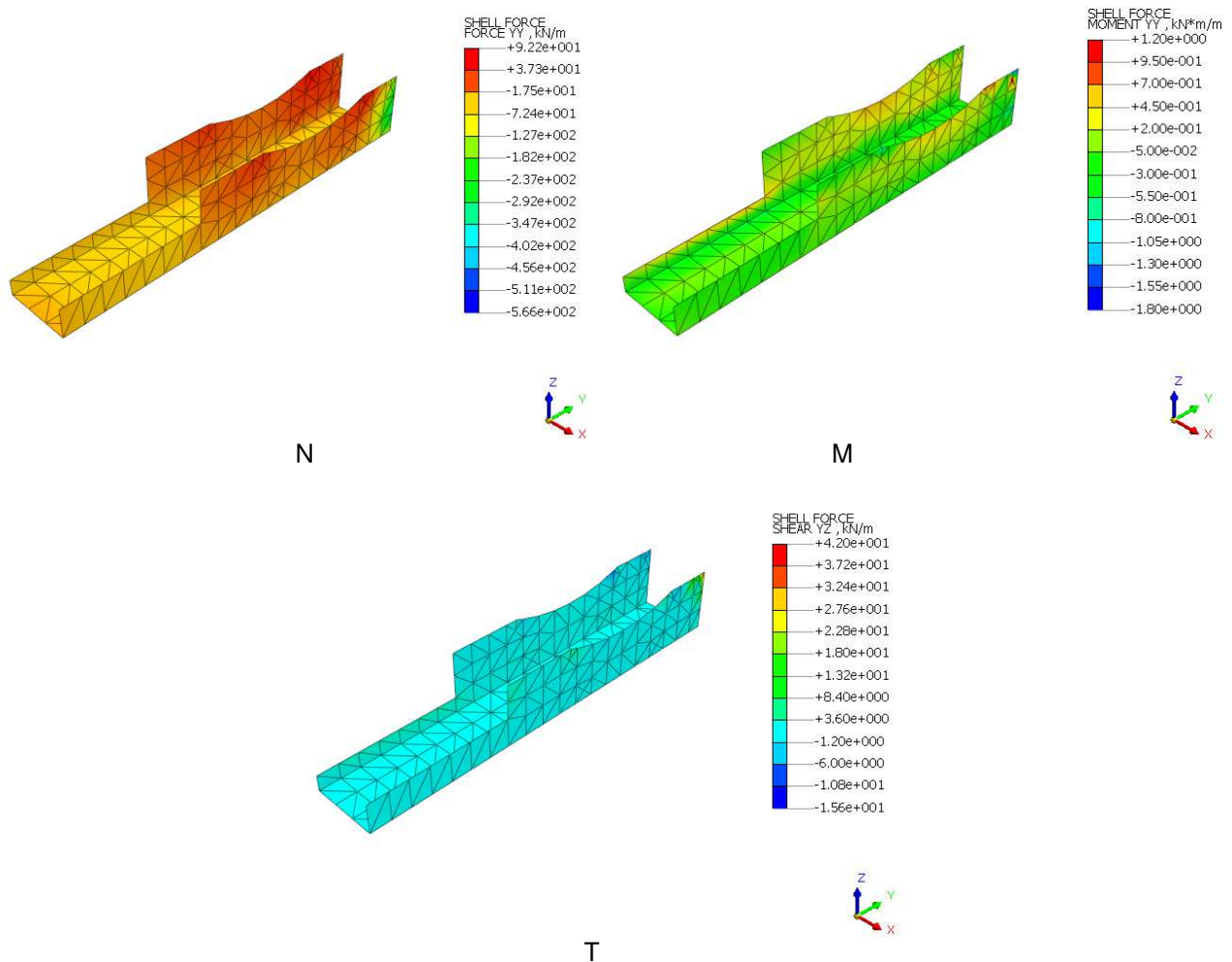


Figura 5.45: Sollecitazioni sul rivestimento definitivo del sottoattraversamento del nodo d'innesto – (N<0 se di compressione) – stage finale.

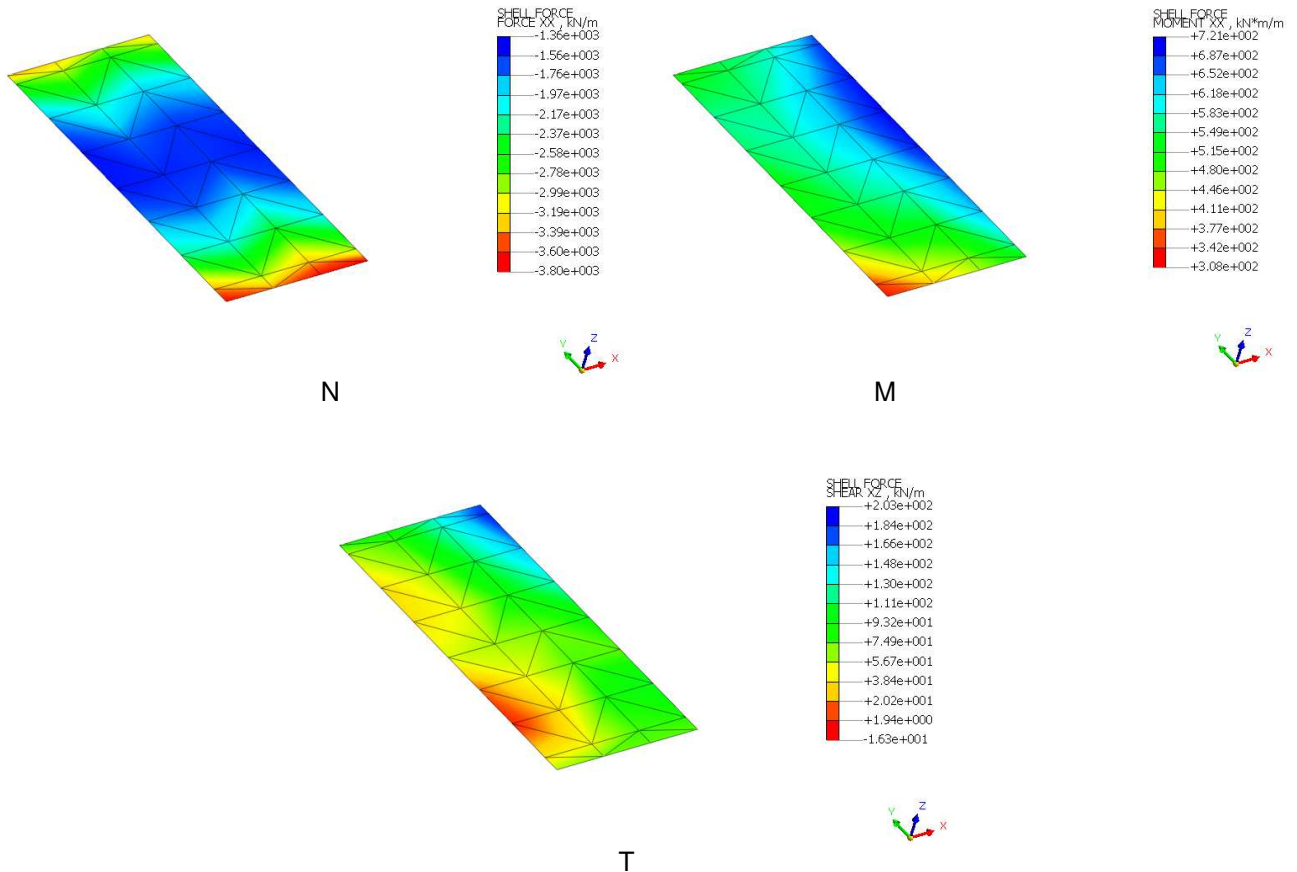


Figura 5.46: Sollecitazioni sulla soletta superiore del rivestimento definitivo del sottoattraversamento – (N<0 se di compressione) – stage finale.

Per la tratta centrale della soletta superiore del sottoattraversamento si verifica nel dettaglio la sezione forata di dimensioni 150cm x 80cm (bxh), in quanto presenta gli alloggiamenti per le due tubazioni di diametro Ø44cm. La geometria di questo dettaglio è riportata nella figura seguente.

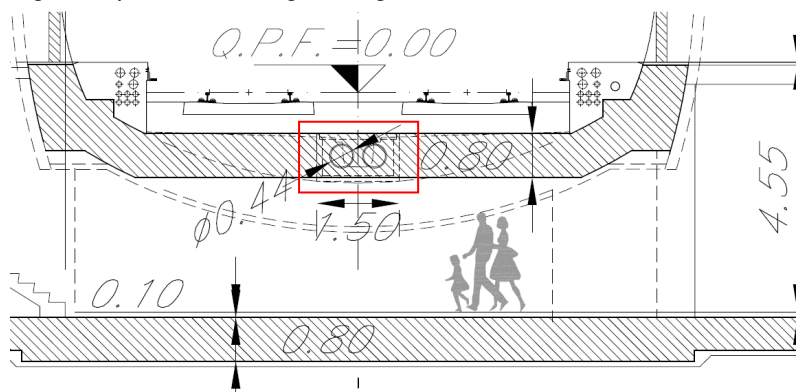


Figura 5.47: Dettaglio della soletta superiore del sottoattraversamento forata per l'alloggiamento di due tubazioni di diametro Ø44cm.

| | | | | | | |
|--|---|------------------|------------------|----------------|-------------------------|-----------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | |
| | RELAZIONE TECNICA E DI CALCOLO | COMMESSA IF1N | LOTTO 01 E ZZ | CODIFICA CL | DOCUMENTO GN0800 001 | REV. C |

5.3.5.4.2 Armatura disposta

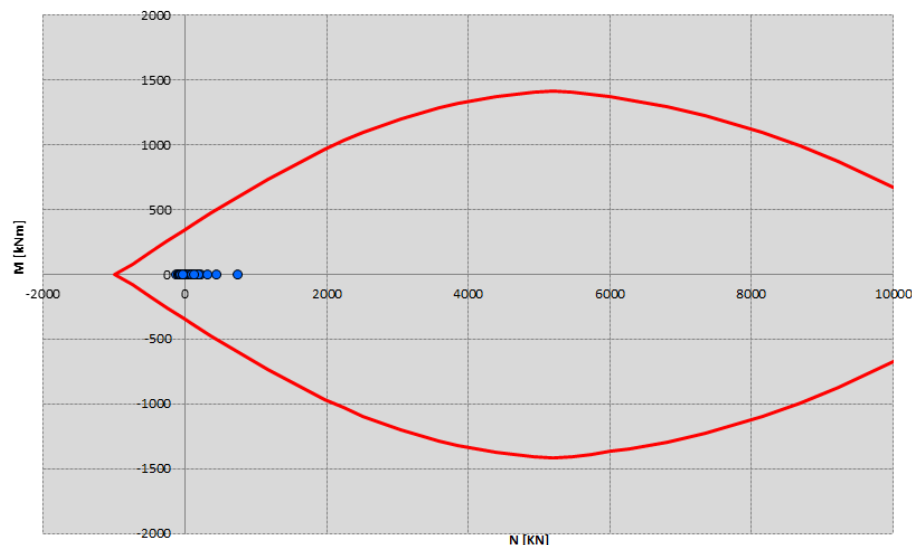
Nella tabella seguente sono riassunte le armature previste per la sezione tipo camera di esodo.

Tabella 22: armatura prevista per la sezione tipo sotto attraversamento.

| Posizione | Armatura flettente Intradosso | Armatura flettente estradosso | Armatura a taglio | Classe calcestruzzo | Copriferro [cm] |
|-------------------|-------------------------------|-------------------------------|-------------------|---------------------|-----------------|
| Setti verticali | 5Ø18/m | 5Ø18/m | - | C25/30 | 8 |
| Soletta di fondo | 5Ø18/m | 5Ø18/m | - | C25/30 | 8 |
| Soletta superiore | 5Ø24/m | 5Ø24/m | - | C25/30 | 8 |
| Soletta forata | 5Ø24/m | 5Ø24/m | - | C25/30 | 8 |

5.3.5.4.3 Setti verticali, soletta di fondo e soletta superiore – verifiche allo SLU – pressoflessione

Le verifiche allo SLU del rivestimento definitivo prevedono il confronto tra le sollecitazioni di calcolo, ottenute moltiplicando i valori caratteristici restituiti dal modello di calcolo per il coefficiente parziale $\gamma_G = 1.3$, e le resistenze di calcolo definite dai punti M_{Rd} , N_{Rd} che individuano il dominio resistente della sezione nel piano M-N.



Setti verticali e soletta di fondo – spessore 80cm – armatura: 5Φ18 in intradosso + 5Φ18 in estradosso

Figura 5.48: Verifiche allo S.L.U. per pressoflessione – setti verticali e soletta di fondo – dominio di resistenza della sezione e sollecitazioni di calcolo.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 65 di 73 |

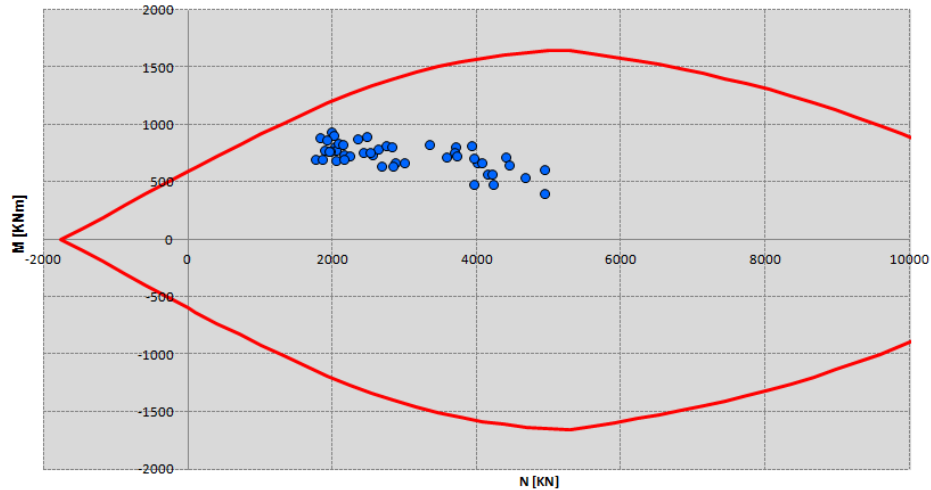
Soletta superiore – spessore 80cm – armatura: $5\Phi 24$ in intradosso + $5\Phi 24$ in estradosso

Figura 5.49: Verifiche allo S.L.U. per pressoflessione – soletta superiore in direzione trasversale al sottoattraversamento – dominio di resistenza della sezione e sollecitazioni di calcolo.

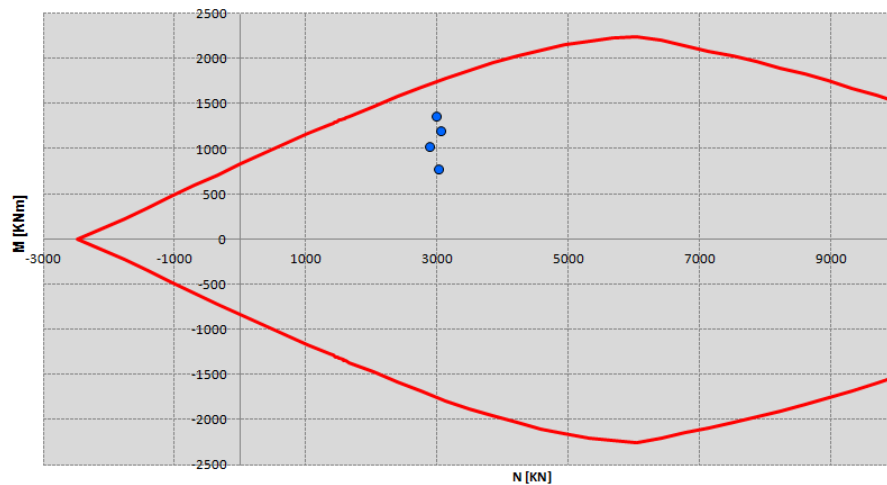
Soletta superiore forata – larghezza 150cm/spessore 80cm – armatura: $\Phi 24$ in intradosso + $5\Phi 24$ in estradosso

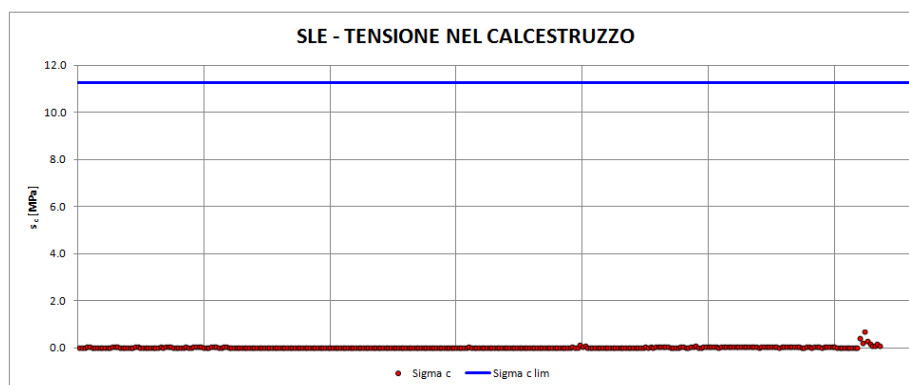
Figura 5.50: Verifiche allo S.L.U. per pressoflessione – soletta superiore forata in direzione trasversale al sottoattraversamento – dominio di resistenza della sezione e sollecitazioni di calcolo.

Le verifiche sono soddisfatte.

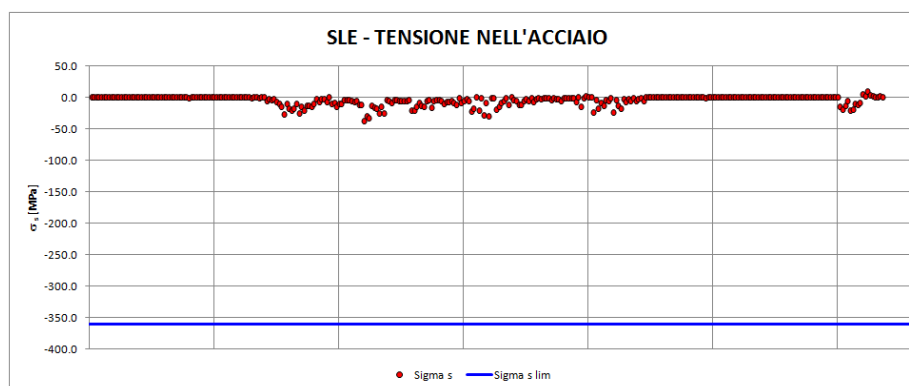
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO I° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>66 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 66 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 66 di 73 | | | | | | | | |

5.3.5.4.4 Setti verticali, soletta di fondo e soletta superiore – verifiche allo SLE

Le verifiche allo S.L.E. risultano soddisfatte quando l'ampiezza delle fessure $w < 0.3\text{mm}$, la tensione massima nel calcestruzzo $\sigma_{c \max} \leq 0.45f_{ck} = 11.25\text{MPa}$ e la tensione massima nell'acciaio $\sigma_{s \max} \leq 0.8f_{yk} = 360\text{MPa}$.



Tensioni di compressione nel calcestruzzo - $\sigma_c < \sigma_{c, \max}$



Tensioni nell'acciaio - $\sigma_s < \sigma_{s, \max}$



Apertura delle fessure – $w < w_{lim} = 0.3\text{mm}$

Figura 5.51: Verifiche allo S.L.E. della sezione – setti verticali e soletta di fondo.

RELAZIONE TECNICA E DI CALCOLO

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF1N

01 E ZZ

CL

GN0800 001

C

67 di 73

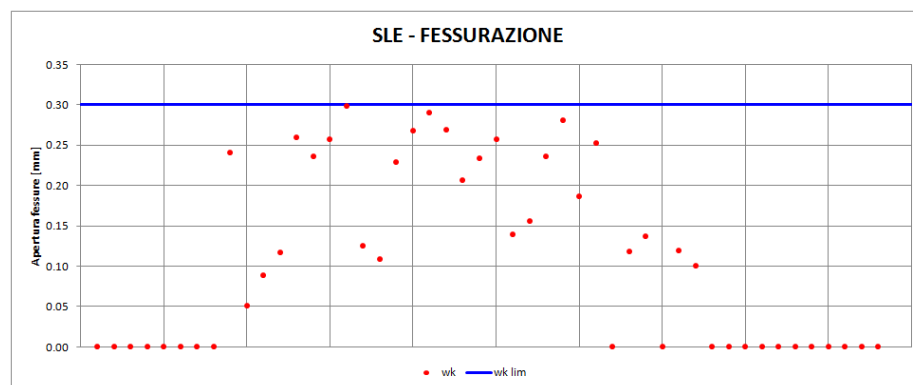
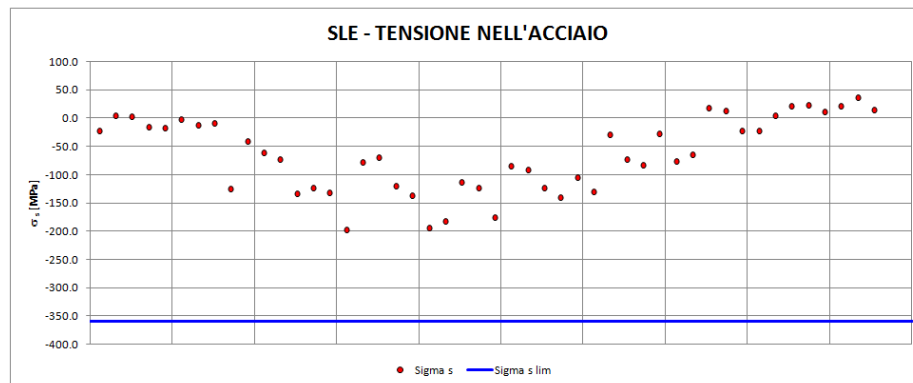
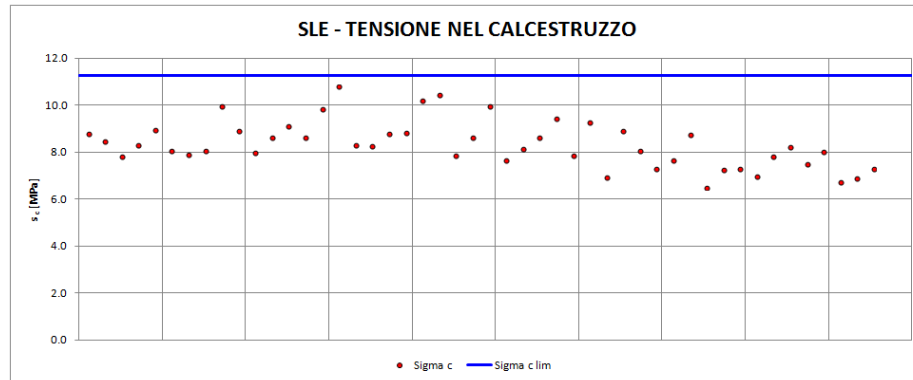
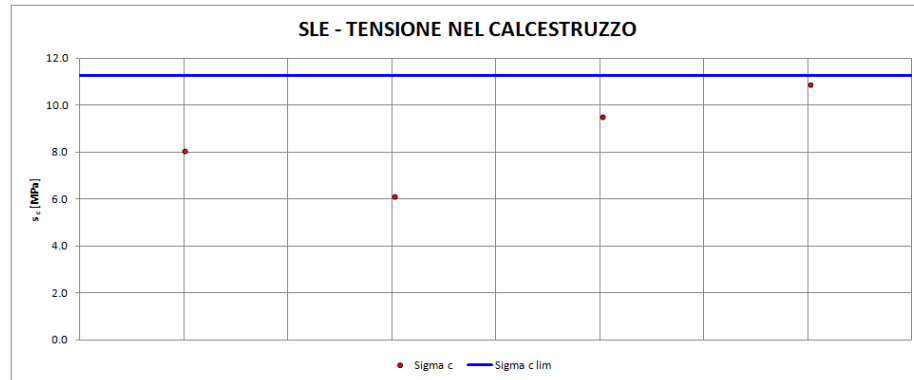


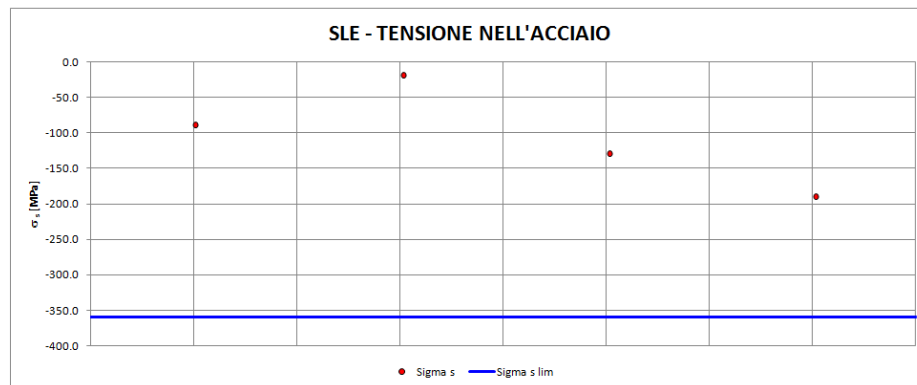
Figura 5.52: Verifiche allo S.L.E. – soletta superiore in direzione trasversale al sottoattraversamento.

RELAZIONE TECNICA E DI CALCOLO

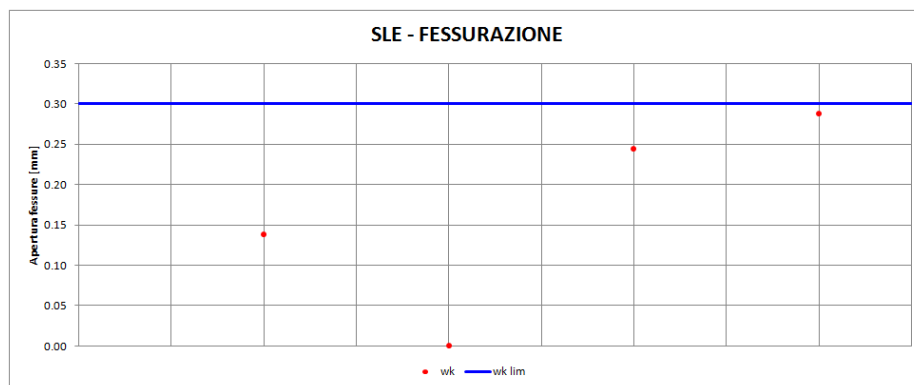
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 68 di 73 |



Tensioni di compressione nel calcestruzzo - $\sigma_c < \sigma_{c,max}$



Tensioni nell'acciaio - $\sigma_s < \sigma_{s,max}$



Apertura delle fessure - $w < w_{lim} = 0.3\text{mm}$

Figura 5.53: Verifiche allo S.L.E. – soletta superiore forata in direzione trasversale al sottoattraversamento.

Le verifiche sono soddisfatte.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>69 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 69 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 69 di 73 | | | | | | | | |

5.3.5.4.5 Calotta e soletta piatta – verifiche allo SLU per sollecitazioni taglianti

Nel caso di elementi strutturali privi di armature trasversali a taglio, occorre verificare che il taglio di progetto (V_{Ed}) sia minore di quello resistente (V_{Rd}); essendo:

$$V_{Rd} = 0,18 \cdot k \cdot (100 \cdot \rho_1 \cdot f_{ck}) / \gamma_c + 0,15 \cdot \sigma_{cp} \cdot b_w \cdot d \geq (v_{min} + 0,15 \cdot \sigma_{cp}) \cdot b_w \cdot d$$

con

$$k = 1 + (200/d) \cdot 1/2 \leq 2$$

$$v_{min} = 0,035 \cdot k^{3/2} \cdot f_{ck}^{1/2}$$

d è l'altezza utile della sezione (mm);

$\rho_1 = A_{sl} / (b_w \cdot d)$ è il rapporto geometrico di armatura longitudinale (≤ 0.02);

$\sigma_{cp} = N_{Ed}/A_c$ è la tensione media di compressione nella sezione ($\leq 0.2 f_{cd}$);

b_w è la larghezza minima della sezione (mm).

Per il significato delle diverse entità si rimanda al paragrafo 4.1.2.1.3.1 del NTC2008.

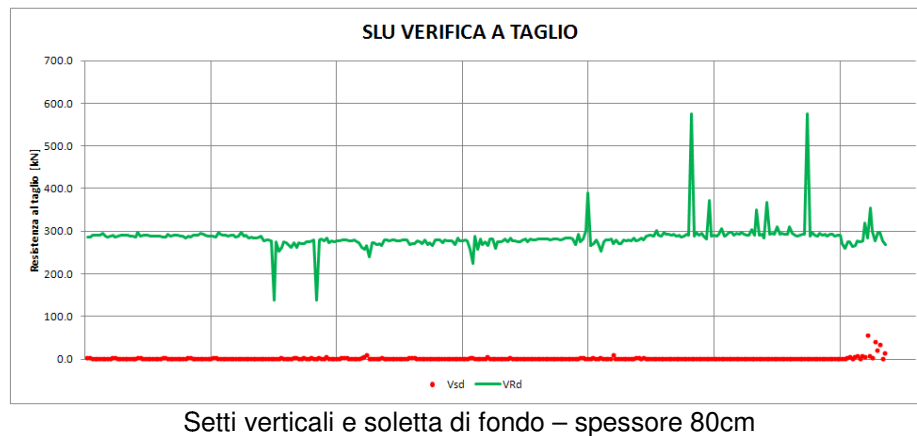


Figura 5.54: Verifiche allo S.L.U. per sollecitazioni taglianti – setti verticali e soletta di fondo.

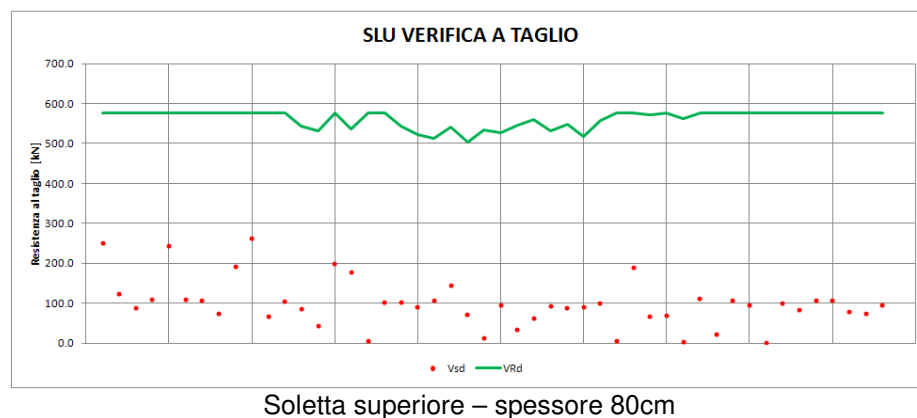
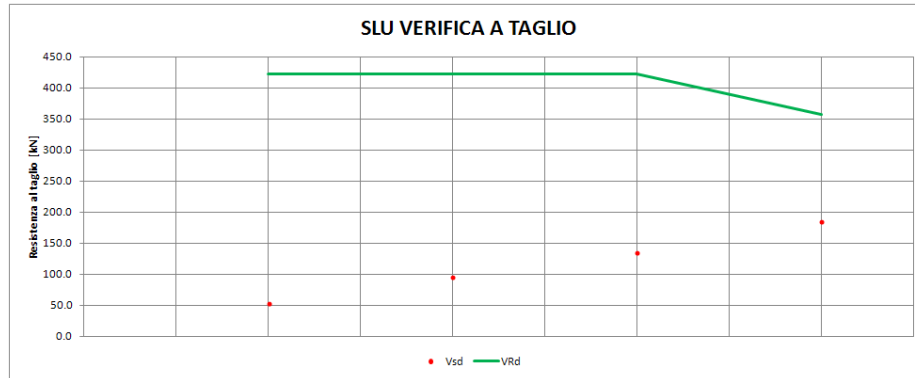


Figura 5.55: Verifiche allo S.L.U. per sollecitazioni taglianti – soletta superiore.

RELAZIONE TECNICA E DI CALCOLO

| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO |
|----------|---------|----------|------------|------|----------|
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 70 di 73 |



Soletta superiore forata – larghezza 150cm/spessore 80cm

Figura 5.56: Verifiche allo S.L.U. per sollecitazioni taglienti – soletta superiore forata.

Le verifiche sono soddisfatte.

|  | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>71 di 73</td> </tr> </tbody> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 71 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 71 di 73 | | | | | | | | |

5.3.6 VERIFICHE DELLA BULLONATURA

Nella figura seguente è riportato l'andamento degli sforzi di trazione nelle bullonature di lunghezza 3.0 e 4.5m nell'intorno del nodo di innesto per la condizione più sfavorevole (fase precedente a quella di getto del rivestimento definitivo).

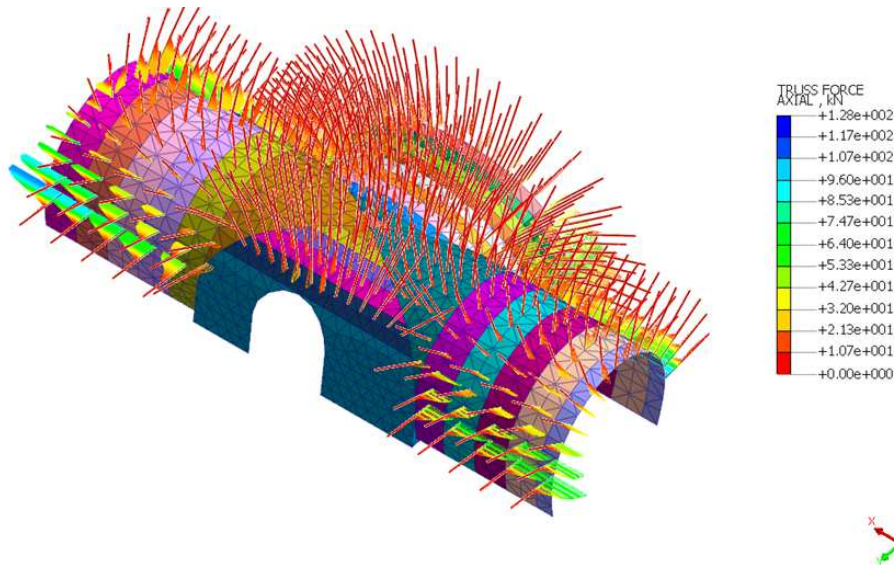


Figura 5.57: andamento degli sforzi di trazione nella bullonatura nell'intorno del nodo d'innesto IN01-IN02/galleria di linea per la condizione più sfavorevole (stage precedente alla fase di getto del rivestimento definitivo), $N_{Ed,max} = 128KN$.

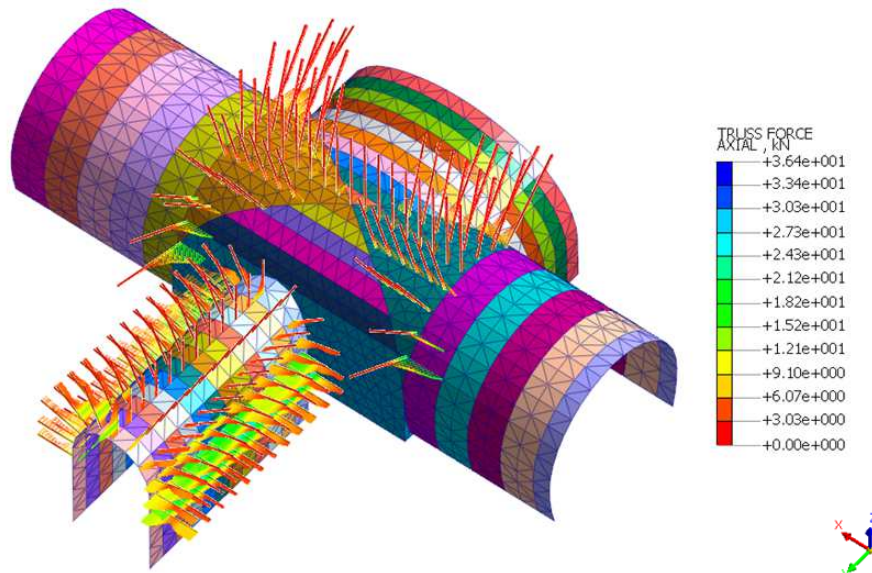


Figura 5.58: andamento degli sforzi di trazione nella bullonatura nell'intorno del nodo d'innesto IN03/camera di esodo per la condizione più sfavorevole (stage precedente alla fase di getto del rivestimento definitivo), $N_{Ed,max} = 36.4KN$.

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">COMMESSA</td> <td style="text-align: center;">LOTTO</td> <td style="text-align: center;">CODIFICA</td> <td style="text-align: center;">DOCUMENTO</td> <td style="text-align: center;">REV.</td> <td style="text-align: center;">FOGLIO</td> </tr> <tr> <td style="text-align: center;">IF1N</td> <td style="text-align: center;">01 E ZZ</td> <td style="text-align: center;">CL</td> <td style="text-align: center;">GN0800 001</td> <td style="text-align: center;">C</td> <td style="text-align: center;">72 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 72 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 72 di 73 | | | | | | | | |

5.3.6.1 VERIFICA DI RESISTENZA DEI BULLONI SWELLEX

Per la bullonatura realizzata tramite Swellex, il carico assiale agente deve rispettare la condizione seguente:

dove:

- N_{Ed} è il carico assiale ricavato dal modello di calcolo e amplificato per il coefficiente parziale delle azioni $\gamma_G = 1.3$;
- N_{Rd} è la resistenza a trazione di calcolo dello Swellex;
- σ_s è la tensione di snervamento dello Swellex;
- A è l'area netta dello Swellex (320mm^2);
- γ_M è il coefficiente di sicurezza per la resistenza dell'acciaio pari a 1.05.

Il massimo carico assiale da modello di calcolo risulta pari a $N_{Ed} = 128 \times 1.3 = 166.4\text{kN}$, valore inferiore alla resistenza a trazione del bullone. La verifica è soddisfatta.

5.3.6.2 RESISTENZA ULTIMA ALLO SFILAMENTO

Per il calcolo della resistenza ultima allo sfilamento si ricorre a quanto indicato per i bulloni Swellex nel testo di riferimento "Professional Users Handbook fo Rock Bolting" [B. Sillborg, 1994]. Per il caso in esame, nel quale i bulloni Swellex hanno un diametro di perforazione di 48mm, è indicata una resistenza allo sfilamento limite pari a 130kN/m. La resistenza ultima allo sfilamento è definita tramite la formula seguente:

dove:

- L_b è la lunghezza del bulbo;
- R_s è la resistenza allo sfilamento limite;

In assenza di prove dirette il calcolo del valore di resistenza caratteristica R_{ak} deriva dalla seguente espressione:

dove:

- $R_{ac, medio}$ e $R_{a,c, min}$ sono i valori medio e minimo della resistenza R_{ac} ottenuta dal calcolo;
- ξ_a sono i fattori di correlazione che dipendono dalla conoscenza del modello geotecnico di riferimento, funzione del numero dei profili di indagine eseguiti (vedi tabella seguente).

Tabella 23: fattori di correlazione per derivare la resistenza caratteristica delle prove geotecniche, in funzione del numero n di profili di indagine (Tabella 6.6 III del D.M.).

| Numero di profili d'indagine | 1 | 2 | 3 | 4 | >5 |
|------------------------------|------|------|------|------|------|
| ξ_{a3} | 1.80 | 1.75 | 1.70 | 1.65 | 1.60 |
| ξ_{a4} | 1.80 | 1.70 | 1.65 | 1.60 | 1.55 |

La resistenza di calcolo, $R_{a,d}$ viene definita mediante la relazione:

con γ_R definito nella tabella seguente.

Tabella 24: coefficienti parziali per la resistenza degli ancoraggi (Tabella 6.6.I del D.M.).

| Tipologia bulloni | γ_R | Coefficiente parziale |
|-------------------|----------------|-----------------------|
| Temporaneo | $\gamma_{R,t}$ | 1.1 |
| Permanente | $\gamma_{R,p}$ | 1.2 |

| | | | | | | | | | | | | | |
|--|---|----------|------------|----------|-----------|------|--------|------|---------|----|------------|---|----------|
|    | ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO – BENEVENTO 1° LOTTO FUNZIONALE CANCELLO - FRASSO TELESINO E VARIANTE ALLA LINEA ROMA-NAPOLI VIA CASSINO NEL COMUNE DI MADDALONI – PROGETTO ESECUTIVO | | | | | | | | | | | | |
| RELAZIONE TECNICA E DI CALCOLO | <table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF1N</td> <td>01 E ZZ</td> <td>CL</td> <td>GN0800 001</td> <td>C</td> <td>73 di 73</td> </tr> </table> | COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | IF1N | 01 E ZZ | CL | GN0800 001 | C | 73 di 73 |
| COMMESSA | LOTTO | CODIFICA | DOCUMENTO | REV. | FOGLIO | | | | | | | | |
| IF1N | 01 E ZZ | CL | GN0800 001 | C | 73 di 73 | | | | | | | | |

Nella tabella seguente si riassumono i valori scelti per le verifiche di sfilamento.

Tabella 25: valori di progetto per le verifiche allo sfilamento.

| DESCRIZIONE DELL'AMMASSO ROCCIOSO | PARAMETRO | | | | |
|-----------------------------------|-----------------------------------|--------------------------------------|---|------------------------|--|
| | Diametro perforazione, D_p [mm] | Fattore di sbulbamento, α [-] | resistenza allo sfilamento limite, R_s [kN/m] | Fattore ξ_{a3} [-] | Coefficiente parziale $\gamma_{R,t}$ [-] |
| Calcari | 48 | 1.0 | 130 | 1.8 | 1.1 |

Si ottengono le resistenze di calcolo a sfilamento dei bullone di lunghezza 3m e 4.5m rispettivamente di 197kN, 295kN. Il carico massimo di calcolo agente sui bulloni di lunghezza 3m e 4.5m è rispettivamente pari a N_{Ed} (3m) = 36.4kN·1.3 = 47.32kN e N_{Ed} (4.5m) = 128kN·1.3 = 166.4kN, le verifiche allo sfilamento sono quindi soddisfatte.

ALLEGATO 1
SOLLECITAZIONI E VERIFICHE DEI SOSTEGNI DI PRIMA FASE

Tabella 1: verifiche del sostegno di prima fase (M>0 fibre tese in intradosso) – Camerone di manovra

| Sollecitazioni caratteristiche | | | | Sollecitazioni SLU | | | | Verifica calcestruzzo proiettato | | | Verifica centine | | | | |
|--------------------------------|------------------|------------------|------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|-----------------|----------|--------------------|--------------------|------------------------|-----------------|----------|
| N _{clsp} | N _{cen} | M _{cen} | T _{cen} | N _{clsp,d} | N _{cen,d} | M _{cen,d} | T _{cen,d} | σ _{c_clsp,d} | f _{cd} | Verifica | σ _{cen,d} | τ _{cen,d} | σ _{id,cent,d} | f _{yd} | Verifica |
| [kN] | [kN] | [kNm] | [kN] | [kN] | [kN] | [kNm] | [kN] | [MPa] | [MPa] | - | [MPa] | [MPa] | [MPa] | [MPa] | - |
| 1451.7 | 233.1 | 14.9 | 39.5 | 1887.2 | 303.0 | 19.4 | 51.3 | 7.5 | 13.8 | OK | 90.7 | 16.4 | 95.1 | 261.9 | OK |
| 0.0 | -80.0 | -11.6 | -12.9 | 0.0 | -104.0 | -15.1 | -16.8 | 0.0 | 13.8 | OK | 50.8 | -5.4 | 51.6 | 261.9 | OK |
| 0.0 | -80.0 | -11.6 | -12.9 | 0.0 | -104.0 | -15.1 | -16.8 | 0.0 | 13.8 | OK | 50.8 | -5.4 | 51.6 | 261.9 | OK |
| 205.7 | 33.0 | -15.4 | -96.8 | 267.4 | 42.9 | -20.0 | -125.8 | 1.1 | 13.8 | OK | 53.1 | -40.3 | 87.7 | 261.9 | OK |
| 5.8 | 0.9 | -10.1 | 10.8 | 7.5 | 1.2 | -13.1 | 14.1 | 0.0 | 13.8 | OK | 30.8 | 4.5 | 31.7 | 261.9 | OK |
| 7.5 | 1.2 | -20.6 | 7.8 | 9.8 | 1.6 | -26.8 | 10.2 | 0.0 | 13.8 | OK | 62.7 | 3.3 | 63.0 | 261.9 | OK |
| 15.3 | 2.5 | -20.5 | 10.7 | 19.9 | 3.2 | -26.6 | 13.9 | 0.1 | 13.8 | OK | 62.7 | 4.4 | 63.2 | 261.9 | OK |
| 16.9 | 2.7 | -5.4 | 9.9 | 21.9 | 3.5 | -7.0 | 12.8 | 0.1 | 13.8 | OK | 16.9 | 4.1 | 18.4 | 261.9 | OK |
| 0.0 | -38.5 | -0.9 | 4.7 | 0.0 | -50.1 | -1.2 | 6.1 | 0.0 | 13.8 | OK | 10.4 | 2.0 | 10.9 | 261.9 | OK |
| 0.0 | -21.0 | -12.5 | 10.3 | 0.0 | -27.3 | -16.3 | 13.3 | 0.0 | 13.8 | OK | 42.2 | 4.3 | 42.8 | 261.9 | OK |
| 37.6 | 6.0 | -28.2 | 4.5 | 48.9 | 7.8 | -36.6 | 5.8 | 0.2 | 13.8 | OK | 86.8 | 1.9 | 86.8 | 261.9 | OK |
| 20.9 | 3.4 | -18.3 | -9.2 | 27.1 | 4.4 | -23.7 | -11.9 | 0.1 | 13.8 | OK | 56.1 | -3.8 | 56.5 | 261.9 | OK |
| 18.7 | 3.0 | -27.0 | 2.8 | 24.3 | 3.9 | -35.1 | 3.7 | 0.1 | 13.8 | OK | 82.5 | 1.2 | 82.5 | 261.9 | OK |
| 18.9 | 3.0 | -26.1 | -6.6 | 24.6 | 3.9 | -34.0 | -8.6 | 0.1 | 13.8 | OK | 79.9 | -2.8 | 80.1 | 261.9 | OK |
| 33.2 | 5.3 | 3.1 | -6.2 | 43.2 | 6.9 | 4.0 | -8.1 | 0.2 | 13.8 | OK | 10.3 | -2.6 | 11.3 | 261.9 | OK |
| 29.4 | 4.7 | 3.2 | -5.4 | 38.2 | 6.1 | 4.2 | -7.1 | 0.2 | 13.8 | OK | 10.6 | -2.3 | 11.3 | 261.9 | OK |
| 9.9 | 1.6 | -8.0 | -9.8 | 12.9 | 2.1 | -10.4 | -12.8 | 0.1 | 13.8 | OK | 24.5 | -4.1 | 25.6 | 261.9 | OK |
| 13.0 | 2.1 | -8.7 | -8.5 | 16.8 | 2.7 | -11.3 | -11.0 | 0.1 | 13.8 | OK | 26.8 | -3.5 | 27.5 | 261.9 | OK |
| 8.4 | 1.4 | -17.7 | -10.8 | 10.9 | 1.8 | -23.1 | -14.0 | 0.0 | 13.8 | OK | 54.2 | -4.5 | 54.7 | 261.9 | OK |
| 36.0 | 5.8 | -27.2 | -4.6 | 46.8 | 7.5 | -35.4 | -6.0 | 0.2 | 13.8 | OK | 83.8 | -1.9 | 83.9 | 261.9 | OK |
| 22.9 | 3.7 | -2.6 | -6.8 | 29.7 | 4.8 | -3.4 | -8.8 | 0.1 | 13.8 | OK | 8.6 | -2.8 | 9.9 | 261.9 | OK |
| 14.5 | 2.3 | -1.1 | -7.2 | 18.8 | 3.0 | -1.4 | -9.4 | 0.1 | 13.8 | OK | 3.7 | -3.0 | 6.4 | 261.9 | OK |
| 56.7 | 9.1 | 9.2 | -3.4 | 73.7 | 11.8 | 11.9 | -4.4 | 0.3 | 13.8 | OK | 29.6 | -1.4 | 29.7 | 261.9 | OK |
| 49.0 | 7.9 | 6.3 | -5.9 | 63.7 | 10.2 | 8.1 | -7.6 | 0.3 | 13.8 | OK | 20.6 | -2.4 | 21.0 | 261.9 | OK |
| 56.1 | 9.0 | 9.0 | -1.6 | 72.9 | 11.7 | 11.6 | -2.0 | 0.3 | 13.8 | OK | 29.0 | -0.6 | 29.0 | 261.9 | OK |
| 64.2 | 10.3 | 9.6 | -2.3 | 83.5 | 13.4 | 12.4 | -3.0 | 0.3 | 13.8 | OK | 31.1 | -1.0 | 31.1 | 261.9 | OK |
| 53.0 | 8.5 | 8.6 | -1.5 | 69.0 | 11.1 | 11.1 | -1.9 | 0.3 | 13.8 | OK | 27.7 | -0.6 | 27.7 | 261.9 | OK |
| 57.8 | 9.3 | 9.4 | -0.4 | 75.1 | 12.1 | 12.3 | -0.5 | 0.3 | 13.8 | OK | 30.5 | -0.2 | 30.5 | 261.9 | OK |
| 38.6 | 6.2 | 6.0 | -3.7 | 50.2 | 8.1 | 7.9 | -4.8 | 0.2 | 13.8 | OK | 19.6 | -1.5 | 19.8 | 261.9 | OK |
| 68.0 | 10.9 | 10.1 | -0.9 | 88.4 | 14.2 | 13.2 | -1.1 | 0.4 | 13.8 | OK | 32.9 | -0.4 | 32.9 | 261.9 | OK |
| 68.8 | 11.1 | 10.2 | -0.7 | 89.5 | 14.4 | 13.2 | -0.9 | 0.4 | 13.8 | OK | 33.1 | -0.3 | 33.1 | 261.9 | OK |
| 48.9 | 7.8 | 7.4 | -2.8 | 63.5 | 10.2 | 9.7 | -3.7 | 0.3 | 13.8 | OK | 24.1 | -1.2 | 24.2 | 261.9 | OK |
| 41.8 | 6.7 | 8.4 | 7.3 | 54.3 | 8.7 | 10.9 | 9.4 | 0.2 | 13.8 | OK | 26.9 | 3.0 | 27.4 | 261.9 | OK |
| 52.7 | 8.5 | 11.0 | 4.5 | 68.5 | 11.0 | 14.3 | 5.9 | 0.3 | 13.8 | OK | 35.0 | 1.9 | 35.1 | 261.9 | OK |
| 39.1 | 6.3 | 9.4 | 2.0 | 50.8 | 8.2 | 12.2 | 2.5 | 0.2 | 13.8 | OK | 29.8 | 0.8 | 29.9 | 261.9 | OK |
| 66.3 | 10.6 | 11.4 | 1.2 | 86.1 | 13.8 | 14.8 | 1.5 | 0.3 | 13.8 | OK | 36.6 | 0.5 | 36.6 | 261.9 | OK |
| 30.6 | 4.9 | 7.0 | 4.8 | 39.8 | 6.4 | 9.1 | 6.3 | 0.2 | 13.8 | OK | 22.1 | 2.0 | 22.4 | 261.9 | OK |
| 46.5 | 7.5 | 9.9 | 1.3 | 60.4 | 9.7 | 12.9 | 1.7 | 0.2 | 13.8 | OK | 31.5 | 0.6 | 31.5 | 261.9 | OK |
| 60.4 | 9.7 | 12.1 | 2.0 | 78.5 | 12.6 | 15.7 | 2.6 | 0.3 | 13.8 | OK | 38.7 | 0.8 | 38.7 | 261.9 | OK |
| 54.2 | 8.7 | 9.6 | -0.1 | 70.5 | 11.3 | 12.5 | -0.1 | 0.3 | 13.8 | OK | 30.8 | 0.0 | 30.8 | 261.9 | OK |
| 51.1 | 8.2 | 10.1 | -0.1 | 66.4 | 10.7 | 13.1 | -0.1 | 0.3 | 13.8 | OK | 32.1 | 0.0 | 32.1 | 261.9 | OK |
| 68.9 | 11.1 | 10.9 | -0.1 | 89.6 | 14.4 | 14.2 | -0.1 | 0.4 | 13.8 | OK | 35.3 | 0.0 | 35.3 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 31.7 | 5.1 | -5.8 | 10.9 | 41.3 | 6.6 | -7.6 | 14.2 | 0.2 | 13.8 | OK | 18.6 | 4.5 | 20.2 | 261.9 | OK |
| 32.5 | 5.2 | 2.7 | 9.8 | 42.3 | 6.8 | 3.5 | 12.8 | 0.2 | 13.8 | OK | 9.2 | 4.1 | 11.6 | 261.9 | OK |
| 61.9 | 9.9 | -34.3 | -8.6 | 80.5 | 12.9 | -44.6 | -11.2 | 0.3 | 13.8 | OK | 106.2 | -3.6 | 106.4 | 261.9 | OK |
| 41.1 | 6.6 | -26.2 | 9.8 | 53.5 | 8.6 | -34.0 | 12.7 | 0.2 | 13.8 | OK | 80.8 | 4.1 | 81.1 | 261.9 | OK |
| 17.2 | 2.8 | -28.8 | 3.3 | 22.4 | 3.6 | -37.5 | 4.3 | 0.1 | 13.8 | OK | 88.1 | 1.4 | 88.1 | 261.9 | OK |
| 57.7 | 9.3 | -34.9 | 3.7 | 75.0 | 12.0 | -45.3 | 4.9 | 0.3 | 13.8 | OK | 107.7 | 1.6 | 107.7 | 261.9 | OK |
| 28.1 | 4.5 | -26.8 | -6.4 | 36.5 | 5.9 | -34.8 | -8.3 | 0.1 | 13.8 | OK | 82.2 | -2.7 | 82.4 | 261.9 | OK |
| 15.3 | 2.5 | -4.2 | 8.4 | 19.8 | 3.2 | -5.5 | 11.0 | 0.1 | 13.8 | OK | 13.4 | 3.5 | 14.7 | 261.9 | OK |
| 19.2 | 3.1 | -13.0 | 9.6 | 25.0 | 4.0 | -17.0 | 12.5 | 0.1 | 13.8 | OK | 40.2 | 4.0 | 40.8 | 261.9 | OK |
| 30.7 | 4.9 | -15.3 | 11.7 | 39.9 | 6.4 | -20.0 | 15.2 | 0.2 | 13.8 | OK | 47.6 | 4.9 | 48.3 | 261.9 | OK |
| 22.4 | 3.6 | 2.5 | 6.7 | 29.1 | 4.7 | 3.3 | 8.7 | 0.1 | 13.8 | OK | 8.4 | 2.8 | 9.7 | 261.9 | OK |
| 18.7 | 3.0 | -22.6 | 7.9 | 24.3 | 3.9 | -29.4 | 10.2 | 0.1 | 13.8 | OK | 69.3 | 3.3 | 69.5 | 261.9 | OK |
| 121.6 | 19.5 | -23.1 | -15.1 | 158.1 | 25.4 | -30.0 | -19.6 | 0.6 | 13.8 | OK | 73.8 | -6.3 | 74.6 | 261.9 | OK |
| 22.9 | 3.7 | -17.0 | -8.7 | 29.8 | 4.8 | -22.2 | -11.3 | 0.1 | 13.8 | OK | 52.5 | -3.6 | 52.9 | 261.9 | OK |
| 193.1 | 31.0 | -14.3 | -17.3 | 251.0 | 40.3 | -18.6 | -22.5 | 1.0 | 13.8 | OK | 49.5 | -7.2 | 51.1 | 261.9 | OK |
| 100.3 | 16.1 | -4.7 | -8.7 | 130.4 | 20.9 | -6.1 | -11.3 | 0.5 | 13.8 | OK | 17.4 | -3.6 | 18.5 | 261.9 | OK |
| 101.2 | 16.2 | 1.4 | 20.0 | 131.6 | 21.1 | 1.8 | 26.0 | 0.5 | 13.8 | OK | 7.4 | 8.3 | 16.2 | 261.9 | OK |
| 339.0 | 54.4 | -4.3 | -18.4 | 440.7 | 70.8 | -5.6 | -23.9 | 1.8 | 13.8 | OK | 23.6 | -7.6 | 27.1 | 261.9 | OK |
| 6.4 | 1.0 | -16.8 | 26.5 | 8.3 | 1.3 | -21.8 | 34.5 | 0.0 | 13.8 | OK | 51.2 | 11.1 | 54.6 | 261.9 | OK |
| 71.7 | 11.5 | -26.9 | 21.1 | 93.2 | 15.0 | -35.0 | 27.5 | 0.4 | 13.8 | OK | 83.9 | 8.8 | 85.3 | 261.9 | OK |
| 25.7 | 4.1 | -27.1 | 23.8 | 33.4 | 5.4 | -35.2 | 30.9 | 0.1 | 13.8 | OK | 83.0 | 9.9 | 84.8 | 261.9 | OK |
| 72.8 | 11.7 | -13.4 | 32.0 | 94.7 | 15.2 | -17.4 | 41.6 | 0.4 | 13.8 | OK | 43.0 | 13.3 | 48.9 | 261.9 | OK |
| 0.0 | -50.6 | 2.8 | 22.3 | 0.0 | -65.7 | 3.6 | 29.0 | 0.0 | 13.8 | OK | 18.3 | 9.3 | 24.4 | 261.9 | OK |
| 47.5 | 7.6 | -10.7 | 16.3 | 61.8 | 9.9 | -13.9 | 21.1 | 0.2 | 13.8 | OK | 33.9 | 6.8 | 35.8 | 261.9 | OK |
| 63.3 | 10.2 | -38.5 | 13.5 | 82.3 | 13.2 | -50.0 | 17.6 | 0.3 | 13.8 | OK | 118.9 | 5.6 | 119.3 | 261.9 | OK |
| 57.2 | 9.2 | -27.8 | -13.6 | 74.3 | 11.9 | -36.1 | -17.6 | 0.3 | 13.8 | OK | 86.2 | -5.7 | 86.8 | 261.9 | OK |
| 65.6 | 10.5 | -36.6 | 9.4 | 85.3 | 13.7 | -47.6 | 12.2 | 0.3 | 13.8 | OK | 113.4 | 3.9 | 113.6 | 261.9 | OK |
| 57.4 | 9.2 | -34.7 | -7.5 | 74.6 | 12.0 | -45.0 | -9.7 | 0.3 | 13.8 | OK | 107.0 | -3.1 | 107.2 | 261.9 | OK |
| 11.6 | 1.9 | 6.5 | -12.1 | 15.1 | 2.4 | 8.4 | -15.8 | 0.1 | 13.8 | OK | 20.1 | -5.1 | 21.9 | 261.9 | OK |
| 7.9 | 1.3 | 5.4 | -8.6 | 10.2 | 1.6 | 7.0 | -11.1 | 0.0 | 13.8 | OK | 16.6 | -3.6 | 17.7 | 261.9 | OK |
| 30.1 | 4.8 | -11.0 | -15.3 | 39.1 | 6.3 | -14.3 | -19.9 | 0.2 | 13.8 | OK | 34.4 | -6.4 | 36.2 | 261.9 | OK |
| 28.7 | 4.6 | -12.7 | -16.8 | 37.3 | 6.0 | -16.5 | -21.9 | 0.1 | 13.8 | OK | 39.5 | -7.0 | 41.3 | 261.9 | OK |
| 37.8 | 6.1 | -23.8 | -14.5 | 49.1 | 7.9 | -31.0 | -18.9 | 0.2 | 13.8 | OK | 73.6 | -6.0 | 74.4 | 261.9 | OK |
| 70.1 | 11.3 | -38.7 | -3.0 | 91.2 | 14.6 | -50.3 | -3.9 | 0.4 | 13.8 | OK | 119.7 | -1.3 | 119.7 | 261.9 | OK |
| 23.3 | 3.7 | -3.6 | -15.4 | 30.3 | 4.9 | -4.7 | -20.0 | 0.1 | 13.8 | OK | 11.8 | -6.4 | 16.2 | 261.9 | OK |
| 10.5 | 1.7 | -0.1 | -12.1 | 13.7 | 2.2 | -0.1 | -15.7 | 0.1 | 13.8 | OK | 0.6 | -5.0 | 8.7 | 261.9 | OK |
| 19.9 | 3.2 | 13.0 | -4.6 | 25.9 | 4.2 | 17.0 | -6.0 | 0.1 | 13.8 | OK | 40.2 | -1.9 | 40.4 | 261.9 | OK |
| 20.0 | 3.2 | 9.9 | -8.6 | 26.0 | 4.2 | 12.9 | -11.2 | 0.1 | 13.8 | OK | 30.8 | -3.6 | 31.4 | 261.9 | OK |
| 0.0 | -33.0 | 10.7 | -1.7 | 0.0 | -42.9 | 13.9 | -2.2 | 0.0 | 13.8 | OK | 38.8 | -0.7 | 38.8 | 261.9 | OK |
| 27.2 | 4.4 | 12.9 | -2.2 | 35.4 | 5.7 | 16.8 | -2.9 | 0.1 | 13.8 | OK | 40.2 | -0.9 | 40.2 | 261.9 | OK |
| 0.0 | -28.2 | 10.8 | -0.9 | 0.0 | -36.6 | 14.1 | -1.1 | 0.0 | 13.8 | OK | 38.4 | -0.4 | 38.4 | 261.9 | OK |
| 0.0 | -29.7 | 10.7 | 0.9 | 0.0 | -38.6 | 13.9 | 1.2 | 0.0 | 13.8 | OK | 38.2 | 0.4 | 38.2 | 261.9 | OK |
| 0.0 | -8.1 | 9.3 | -3.8 | 0.0 | -10.5 | 12.1 | -5.0 | 0.0 | 13.8 | OK | 29.7 | -1.6 | 29.9 | 261.9 | OK |
| 31.2 | 5.0 | 12.9 | -0.2 | 40.5 | 6.5 | 16.8 | -0.2 | 0.2 | 13.8 | OK | 40.3 | -0.1 | 40.3 | 261.9 | OK |
| 35.0 | 5.6 | 12.6 | 0.7 | 45.5 | 7.3 | 16.4 | 0.9 | 0.2 | 13.8 | OK | 39.3 | 0.3 | 39.3 | 261.9 | OK |
| 0.0 | -20.6 | 9.8 | -3.5 | 0.0 | -26.8 | 12.7 | -4.5 | 0.0 | 13.8 | OK | 33.8 | -1.4 | 33.9 | 261.9 | OK |
| 40.3 | 6.5 | 9.0 | 7.2 | 52.3 | 8.4 | 11.6 | 9.4 | 0.2 | 13.8 | OK | 28.4 | 3.0 | 28.9 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 46.2 | 7.4 | 11.3 | 4.9 | 60.0 | 9.6 | 14.7 | 6.3 | 0.2 | 13.8 | OK | 35.7 | 2.0 | 35.9 | 261.9 | OK |
| 0.0 | -2.3 | 9.5 | 2.2 | 0.0 | -3.0 | 12.3 | 2.8 | 0.0 | 13.8 | OK | 29.2 | 0.9 | 29.2 | 261.9 | OK |
| 44.9 | 7.2 | 12.3 | 2.3 | 58.4 | 9.4 | 16.0 | 2.9 | 0.2 | 13.8 | OK | 38.8 | 0.9 | 38.8 | 261.9 | OK |
| 8.1 | 1.3 | 7.1 | 5.1 | 10.6 | 1.7 | 9.2 | 6.7 | 0.0 | 13.8 | OK | 21.8 | 2.1 | 22.1 | 261.9 | OK |
| 0.0 | -15.7 | 9.8 | 2.4 | 0.0 | -20.4 | 12.7 | 3.1 | 0.0 | 13.8 | OK | 32.8 | 1.0 | 32.9 | 261.9 | OK |
| 43.9 | 7.1 | 12.8 | 2.9 | 57.1 | 9.2 | 16.6 | 3.7 | 0.2 | 13.8 | OK | 40.3 | 1.2 | 40.3 | 261.9 | OK |
| 0.0 | -33.9 | 10.4 | 1.6 | 0.0 | -44.1 | 13.5 | 2.1 | 0.0 | 13.8 | OK | 38.2 | 0.7 | 38.2 | 261.9 | OK |
| 0.0 | -23.1 | 10.5 | 0.2 | 0.0 | -30.0 | 13.7 | 0.3 | 0.0 | 13.8 | OK | 36.5 | 0.1 | 36.5 | 261.9 | OK |
| 41.4 | 6.6 | 12.7 | 1.4 | 53.8 | 8.6 | 16.5 | 1.8 | 0.2 | 13.8 | OK | 39.7 | 0.6 | 39.8 | 261.9 | OK |
| 42.6 | 6.8 | -5.5 | 11.1 | 55.4 | 8.9 | -7.2 | 14.5 | 0.2 | 13.8 | OK | 18.2 | 4.6 | 19.9 | 261.9 | OK |
| 37.3 | 6.0 | 3.3 | 10.2 | 48.5 | 7.8 | 4.3 | 13.2 | 0.2 | 13.8 | OK | 11.3 | 4.2 | 13.5 | 261.9 | OK |
| 33.9 | 5.4 | -32.5 | -6.1 | 44.1 | 7.1 | -42.3 | -7.9 | 0.2 | 13.8 | OK | 99.8 | -2.5 | 99.9 | 261.9 | OK |
| 51.1 | 8.2 | -26.1 | 9.2 | 66.5 | 10.7 | -34.0 | 12.0 | 0.3 | 13.8 | OK | 80.9 | 3.8 | 81.2 | 261.9 | OK |
| 16.5 | 2.7 | -28.2 | 3.8 | 21.5 | 3.4 | -36.7 | 5.0 | 0.1 | 13.8 | OK | 86.3 | 1.6 | 86.3 | 261.9 | OK |
| 52.6 | 8.4 | -33.6 | 2.2 | 68.4 | 11.0 | -43.7 | 2.9 | 0.3 | 13.8 | OK | 103.6 | 0.9 | 103.7 | 261.9 | OK |
| 0.0 | -1.9 | -27.2 | -6.8 | 0.0 | -2.4 | -35.3 | -8.8 | 0.0 | 13.8 | OK | 82.8 | -2.8 | 83.0 | 261.9 | OK |
| 21.2 | 3.4 | -2.5 | 9.7 | 27.6 | 4.4 | -3.3 | 12.6 | 0.1 | 13.8 | OK | 8.3 | 4.0 | 10.8 | 261.9 | OK |
| 33.8 | 5.4 | -11.8 | 11.1 | 43.9 | 7.0 | -15.3 | 14.4 | 0.2 | 13.8 | OK | 36.9 | 4.6 | 37.7 | 261.9 | OK |
| 40.0 | 6.4 | -15.2 | 11.6 | 52.0 | 8.4 | -19.7 | 15.1 | 0.2 | 13.8 | OK | 47.3 | 4.8 | 48.0 | 261.9 | OK |
| 19.1 | 3.1 | 3.2 | 7.8 | 24.9 | 4.0 | 4.2 | 10.1 | 0.1 | 13.8 | OK | 10.4 | 3.2 | 11.8 | 261.9 | OK |
| 28.4 | 4.6 | -21.5 | 8.9 | 36.9 | 5.9 | -28.0 | 11.5 | 0.1 | 13.8 | OK | 66.3 | 3.7 | 66.6 | 261.9 | OK |
| 59.3 | 9.5 | -20.2 | -10.7 | 77.1 | 12.4 | -26.3 | -14.0 | 0.3 | 13.8 | OK | 63.2 | -4.5 | 63.7 | 261.9 | OK |
| 0.0 | -52.4 | -17.5 | -6.7 | 0.0 | -68.1 | -22.8 | -8.6 | 0.0 | 13.8 | OK | 63.4 | -2.8 | 63.6 | 261.9 | OK |
| 50.8 | 8.2 | -11.2 | -5.9 | 66.0 | 10.6 | -14.6 | -7.6 | 0.3 | 13.8 | OK | 35.7 | -2.5 | 35.9 | 261.9 | OK |
| 0.0 | -68.1 | -4.9 | -5.1 | 0.0 | -88.5 | -6.4 | -6.7 | 0.0 | 13.8 | OK | 28.3 | -2.1 | 28.5 | 261.9 | OK |
| 0.0 | -20.2 | -1.0 | 4.1 | 0.0 | -26.3 | -1.3 | 5.4 | 0.0 | 13.8 | OK | 6.9 | 1.7 | 7.5 | 261.9 | OK |
| 134.5 | 21.6 | 1.6 | -5.8 | 174.9 | 28.1 | 2.1 | -7.6 | 0.7 | 13.8 | OK | 9.2 | -2.4 | 10.1 | 261.9 | OK |
| 523.1 | 84.0 | -3.2 | 13.7 | 680.1 | 109.2 | -4.1 | 17.8 | 2.7 | 13.8 | OK | 26.0 | 5.7 | 27.8 | 261.9 | OK |
| 473.7 | 76.1 | 0.0 | 27.5 | 615.8 | 98.9 | 0.0 | 35.8 | 2.5 | 13.8 | OK | 14.9 | 11.5 | 24.8 | 261.9 | OK |
| 244.9 | 39.3 | -10.4 | 19.1 | 318.4 | 51.1 | -13.5 | 24.9 | 1.3 | 13.8 | OK | 39.3 | 8.0 | 41.6 | 261.9 | OK |
| 282.2 | 45.3 | 1.8 | 7.7 | 366.8 | 58.9 | 2.4 | 10.0 | 1.5 | 13.8 | OK | 14.3 | 3.2 | 15.4 | 261.9 | OK |
| 373.5 | 60.0 | 2.3 | 1.3 | 485.5 | 78.0 | 3.0 | 1.7 | 1.9 | 13.8 | OK | 18.7 | 0.5 | 18.7 | 261.9 | OK |
| 395.4 | 63.5 | -1.6 | 6.7 | 514.0 | 82.5 | -2.0 | 8.7 | 2.1 | 13.8 | OK | 17.1 | 2.8 | 17.8 | 261.9 | OK |
| 0.0 | -5.5 | -3.3 | -9.7 | 0.0 | -7.1 | -4.3 | -12.6 | 0.0 | 13.8 | OK | 11.0 | -4.0 | 13.1 | 261.9 | OK |
| 0.0 | -22.6 | 1.9 | -1.8 | 0.0 | -29.4 | 2.5 | -2.4 | 0.0 | 13.8 | OK | 10.1 | -0.8 | 10.2 | 261.9 | OK |
| 538.4 | 86.5 | -11.9 | 19.6 | 700.0 | 112.4 | -15.5 | 25.5 | 2.8 | 13.8 | OK | 53.1 | 8.2 | 54.9 | 261.9 | OK |
| 0.0 | -45.8 | 1.8 | -3.4 | 0.0 | -59.6 | 2.3 | -4.4 | 0.0 | 13.8 | OK | 14.4 | -1.4 | 14.6 | 261.9 | OK |
| 199.5 | 32.0 | -18.9 | 3.9 | 259.3 | 41.6 | -24.5 | 5.1 | 1.0 | 13.8 | OK | 63.5 | 1.6 | 63.6 | 261.9 | OK |
| 0.0 | -24.2 | -7.5 | -11.1 | 0.0 | -31.5 | -9.8 | -14.5 | 0.0 | 13.8 | OK | 27.6 | -4.6 | 28.8 | 261.9 | OK |
| 173.3 | 27.8 | -13.0 | -10.9 | 225.3 | 36.2 | -16.9 | -14.2 | 0.9 | 13.8 | OK | 44.8 | -4.6 | 45.5 | 261.9 | OK |
| 0.0 | -4.7 | 1.9 | -4.3 | 0.0 | -6.2 | 2.5 | -5.6 | 0.0 | 13.8 | OK | 6.8 | -1.8 | 7.5 | 261.9 | OK |
| 67.1 | 10.8 | -17.0 | -14.8 | 87.2 | 14.0 | -22.0 | -19.3 | 0.3 | 13.8 | OK | 53.6 | -6.2 | 54.7 | 261.9 | OK |
| 0.0 | -6.2 | -1.2 | -7.8 | 0.0 | -8.1 | -1.6 | -10.2 | 0.0 | 13.8 | OK | 4.9 | -3.3 | 7.5 | 261.9 | OK |
| 47.2 | 7.6 | -12.7 | -11.5 | 61.4 | 9.9 | -16.5 | -15.0 | 0.2 | 13.8 | OK | 39.9 | -4.8 | 40.8 | 261.9 | OK |
| 0.0 | -44.5 | -2.8 | -7.8 | 0.0 | -57.8 | -3.6 | -10.1 | 0.0 | 13.8 | OK | 17.0 | -3.2 | 17.9 | 261.9 | OK |
| 13.2 | 2.1 | 1.9 | 0.2 | 17.2 | 2.8 | 2.4 | 0.3 | 0.1 | 13.8 | OK | 6.1 | 0.1 | 6.1 | 261.9 | OK |
| 34.6 | 5.6 | 0.1 | -0.4 | 45.0 | 7.2 | 0.2 | -0.5 | 0.2 | 13.8 | OK | 1.5 | -0.2 | 1.5 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 30.1 | 4.8 | 0.8 | 1.0 | 39.1 | 6.3 | 1.0 | 1.3 | 0.2 | 13.8 | OK | 3.3 | 0.4 | 3.4 | 261.9 | OK |
| 46.5 | 7.5 | -2.3 | 1.4 | 60.4 | 9.7 | -3.0 | 1.8 | 0.2 | 13.8 | OK | 8.4 | 0.6 | 8.5 | 261.9 | OK |
| 0.0 | -2.3 | 2.9 | -0.6 | 0.0 | -3.0 | 3.8 | -0.8 | 0.0 | 13.8 | OK | 9.3 | -0.3 | 9.3 | 261.9 | OK |
| 21.9 | 3.5 | 3.2 | -0.5 | 28.5 | 4.6 | 4.1 | -0.7 | 0.1 | 13.8 | OK | 10.3 | -0.2 | 10.4 | 261.9 | OK |
| 4.6 | 0.7 | 3.1 | -4.2 | 5.9 | 1.0 | 4.1 | -5.4 | 0.0 | 13.8 | OK | 9.6 | -1.7 | 10.1 | 261.9 | OK |
| 37.3 | 6.0 | -1.2 | 0.5 | 48.5 | 7.8 | -1.6 | 0.6 | 0.2 | 13.8 | OK | 4.9 | 0.2 | 4.9 | 261.9 | OK |
| 50.3 | 8.1 | -4.5 | -0.5 | 65.4 | 10.5 | -5.9 | -0.7 | 0.3 | 13.8 | OK | 15.4 | -0.2 | 15.4 | 261.9 | OK |
| 42.8 | 6.9 | -2.1 | 0.5 | 55.6 | 8.9 | -2.7 | 0.7 | 0.2 | 13.8 | OK | 7.6 | 0.2 | 7.6 | 261.9 | OK |
| 40.0 | 6.4 | 1.0 | -0.6 | 52.1 | 8.4 | 1.3 | -0.8 | 0.2 | 13.8 | OK | 4.3 | -0.3 | 4.3 | 261.9 | OK |
| 40.9 | 6.6 | -0.9 | -1.0 | 53.2 | 8.5 | -1.2 | -1.3 | 0.2 | 13.8 | OK | 4.1 | -0.4 | 4.2 | 261.9 | OK |
| 45.8 | 7.4 | -2.5 | 0.1 | 59.5 | 9.6 | -3.3 | 0.1 | 0.2 | 13.8 | OK | 9.1 | 0.0 | 9.1 | 261.9 | OK |
| 44.0 | 7.1 | -2.3 | -0.1 | 57.2 | 9.2 | -3.0 | -0.1 | 0.2 | 13.8 | OK | 8.3 | 0.0 | 8.3 | 261.9 | OK |
| 51.4 | 8.3 | -4.3 | -0.8 | 66.8 | 10.7 | -5.5 | -1.0 | 0.3 | 13.8 | OK | 14.5 | -0.3 | 14.5 | 261.9 | OK |
| 27.1 | 4.4 | 0.4 | -0.6 | 35.3 | 5.7 | 0.5 | -0.8 | 0.1 | 13.8 | OK | 1.9 | -0.3 | 2.0 | 261.9 | OK |
| 15.4 | 2.5 | 2.0 | -0.4 | 20.1 | 3.2 | 2.6 | -0.6 | 0.1 | 13.8 | OK | 6.6 | -0.2 | 6.6 | 261.9 | OK |
| 21.5 | 3.4 | 2.6 | 2.2 | 27.9 | 4.5 | 3.4 | 2.9 | 0.1 | 13.8 | OK | 8.6 | 0.9 | 8.8 | 261.9 | OK |
| 9.4 | 1.5 | 3.0 | 2.6 | 12.2 | 2.0 | 3.9 | 3.4 | 0.0 | 13.8 | OK | 9.4 | 1.1 | 9.6 | 261.9 | OK |
| 0.0 | -6.4 | 2.1 | 0.9 | 0.0 | -8.3 | 2.7 | 1.2 | 0.0 | 13.8 | OK | 7.7 | 0.4 | 7.7 | 261.9 | OK |
| 79.9 | 12.8 | -19.1 | 10.0 | 103.9 | 16.7 | -24.9 | 13.0 | 0.4 | 13.8 | OK | 60.6 | 4.2 | 61.1 | 261.9 | OK |
| 0.0 | -46.0 | 0.5 | 4.0 | 0.0 | -59.8 | 0.7 | 5.3 | 0.0 | 13.8 | OK | 10.5 | 1.7 | 10.9 | 261.9 | OK |
| 0.0 | -9.0 | 1.3 | 4.7 | 0.0 | -11.7 | 1.7 | 6.1 | 0.0 | 13.8 | OK | 5.6 | 2.0 | 6.6 | 261.9 | OK |
| 0.0 | -7.0 | -4.1 | 10.6 | 0.0 | -9.1 | -5.3 | 13.7 | 0.0 | 13.8 | OK | 13.8 | 4.4 | 15.8 | 261.9 | OK |
| 0.0 | -42.6 | -5.1 | 8.7 | 0.0 | -55.4 | -6.6 | 11.2 | 0.0 | 13.8 | OK | 23.7 | 3.6 | 24.5 | 261.9 | OK |
| 0.0 | -13.3 | -2.2 | 8.4 | 0.0 | -17.3 | -2.9 | 10.9 | 0.0 | 13.8 | OK | 9.3 | 3.5 | 11.1 | 261.9 | OK |
| 408.1 | 65.5 | -20.0 | -22.5 | 530.5 | 85.2 | -26.1 | -29.3 | 2.1 | 13.8 | OK | 73.6 | -9.4 | 75.4 | 261.9 | OK |
| 0.0 | -24.5 | 1.2 | 2.0 | 0.0 | -31.8 | 1.6 | 2.6 | 0.0 | 13.8 | OK | 8.5 | 0.8 | 8.6 | 261.9 | OK |
| 200.5 | 32.2 | -19.6 | 11.5 | 260.7 | 41.9 | -25.5 | 14.9 | 1.0 | 13.8 | OK | 65.8 | 4.8 | 66.3 | 261.9 | OK |
| 73.1 | 11.7 | -13.6 | 13.8 | 95.0 | 15.3 | -17.7 | 17.9 | 0.4 | 13.8 | OK | 43.6 | 5.7 | 44.7 | 261.9 | OK |
| 190.8 | 30.6 | -18.8 | -12.6 | 248.0 | 39.8 | -24.4 | -16.3 | 1.0 | 13.8 | OK | 63.0 | -5.2 | 63.6 | 261.9 | OK |
| 0.0 | -14.6 | -10.5 | 11.4 | 0.0 | -18.9 | -13.7 | 14.8 | 0.0 | 13.8 | OK | 34.8 | 4.7 | 35.8 | 261.9 | OK |
| 530.4 | 85.2 | 36.5 | -18.3 | 689.5 | 110.7 | 47.5 | -23.8 | 2.8 | 13.8 | OK | 127.5 | -7.6 | 128.2 | 261.9 | OK |
| 275.8 | 44.3 | 3.8 | -27.4 | 358.6 | 57.6 | 4.9 | -35.6 | 1.4 | 13.8 | OK | 20.1 | -11.4 | 28.2 | 261.9 | OK |
| 423.7 | 68.0 | 20.9 | 48.6 | 550.8 | 88.4 | 27.2 | 63.1 | 2.2 | 13.8 | OK | 76.7 | 20.2 | 84.3 | 261.9 | OK |
| 236.6 | 38.0 | 13.8 | 48.6 | 307.5 | 49.4 | 18.0 | 63.2 | 1.2 | 13.8 | OK | 49.4 | 20.3 | 60.6 | 261.9 | OK |
| 565.5 | 90.8 | 7.7 | -45.8 | 735.1 | 118.0 | 10.0 | -59.6 | 2.9 | 13.8 | OK | 41.0 | -19.1 | 52.7 | 261.9 | OK |
| 346.0 | 55.6 | 21.9 | -10.3 | 449.8 | 72.2 | 28.5 | -13.4 | 1.8 | 13.8 | OK | 77.3 | -4.3 | 77.7 | 261.9 | OK |
| 41.5 | 6.7 | -10.1 | 7.2 | 54.0 | 8.7 | -13.1 | 9.3 | 0.2 | 13.8 | OK | 31.8 | 3.0 | 32.3 | 261.9 | OK |
| 40.4 | 6.5 | -17.9 | 6.9 | 52.5 | 8.4 | -23.3 | 9.0 | 0.2 | 13.8 | OK | 55.7 | 2.9 | 56.0 | 261.9 | OK |
| 89.3 | 14.3 | -17.6 | 12.8 | 116.1 | 18.6 | -22.9 | 16.6 | 0.5 | 13.8 | OK | 56.2 | 5.3 | 57.0 | 261.9 | OK |
| 219.9 | 35.3 | -1.0 | 2.1 | 285.9 | 45.9 | -1.4 | 2.8 | 1.1 | 13.8 | OK | 10.1 | 0.9 | 10.2 | 261.9 | OK |
| 63.8 | 10.2 | -3.0 | 5.2 | 83.0 | 13.3 | -3.8 | 6.8 | 0.3 | 13.8 | OK | 11.0 | 2.2 | 11.6 | 261.9 | OK |
| 142.0 | 22.8 | -6.6 | 9.9 | 184.5 | 29.6 | -8.6 | 12.8 | 0.7 | 13.8 | OK | 24.6 | 4.1 | 25.6 | 261.9 | OK |
| 12.0 | 1.9 | -0.6 | -4.7 | 15.5 | 2.5 | -0.7 | -6.1 | 0.1 | 13.8 | OK | 2.1 | -2.0 | 4.0 | 261.9 | OK |
| 28.2 | 4.5 | 2.6 | -5.3 | 36.7 | 5.9 | 3.4 | -6.8 | 0.1 | 13.8 | OK | 8.7 | -2.2 | 9.5 | 261.9 | OK |
| 0.0 | -23.5 | -14.0 | -10.1 | 0.0 | -30.5 | -18.2 | -13.2 | 0.0 | 13.8 | OK | 47.0 | -4.2 | 47.6 | 261.9 | OK |
| 8.4 | 1.4 | -1.3 | -5.1 | 11.0 | 1.8 | -1.7 | -6.7 | 0.0 | 13.8 | OK | 4.3 | -2.1 | 5.7 | 261.9 | OK |
| 0.0 | -5.1 | -13.4 | -10.4 | 0.0 | -6.6 | -17.4 | -13.5 | 0.0 | 13.8 | OK | 41.8 | -4.3 | 42.4 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 0.0 | -1.8 | -5.7 | -7.7 | 0.0 | -2.3 | -7.4 | -10.1 | 0.0 | 13.8 | OK | 17.7 | -3.2 | 18.5 | 261.9 | OK |
| 0.0 | -17.6 | -5.8 | -7.0 | 0.0 | -22.9 | -7.6 | -9.1 | 0.0 | 13.8 | OK | 21.1 | -2.9 | 21.7 | 261.9 | OK |
| 13.5 | 2.2 | -22.5 | -9.2 | 17.5 | 2.8 | -29.2 | -11.9 | 0.1 | 13.8 | OK | 68.8 | -3.8 | 69.1 | 261.9 | OK |
| 28.5 | 4.6 | 2.6 | -3.9 | 37.0 | 5.9 | 3.4 | -5.1 | 0.1 | 13.8 | OK | 8.9 | -1.6 | 9.4 | 261.9 | OK |
| 16.9 | 2.7 | -22.8 | -8.8 | 22.0 | 3.5 | -29.7 | -11.4 | 0.1 | 13.8 | OK | 69.9 | -3.7 | 70.2 | 261.9 | OK |
| 29.4 | 4.7 | -23.5 | 1.1 | 38.2 | 6.1 | -30.5 | 1.5 | 0.2 | 13.8 | OK | 72.2 | 0.5 | 72.2 | 261.9 | OK |
| 61.8 | 9.9 | -25.6 | 2.9 | 80.3 | 12.9 | -33.3 | 3.7 | 0.3 | 13.8 | OK | 79.8 | 1.2 | 79.8 | 261.9 | OK |
| 61.7 | 9.9 | 7.3 | -2.4 | 80.3 | 12.9 | 9.4 | -3.1 | 0.3 | 13.8 | OK | 24.0 | -1.0 | 24.1 | 261.9 | OK |
| 41.6 | 6.7 | 4.8 | -2.8 | 54.1 | 8.7 | 6.2 | -3.7 | 0.2 | 13.8 | OK | 15.8 | -1.2 | 15.9 | 261.9 | OK |
| 54.8 | 8.8 | 7.4 | -3.4 | 71.3 | 11.4 | 9.7 | -4.4 | 0.3 | 13.8 | OK | 24.3 | -1.4 | 24.5 | 261.9 | OK |
| 54.0 | 8.7 | 6.1 | -2.1 | 70.1 | 11.3 | 7.9 | -2.8 | 0.3 | 13.8 | OK | 20.2 | -0.9 | 20.2 | 261.9 | OK |
| 66.7 | 10.7 | 7.3 | -1.0 | 86.7 | 13.9 | 9.5 | -1.3 | 0.3 | 13.8 | OK | 24.2 | -0.4 | 24.2 | 261.9 | OK |
| 61.8 | 9.9 | 6.8 | -1.0 | 80.3 | 12.9 | 8.8 | -1.3 | 0.3 | 13.8 | OK | 22.4 | -0.4 | 22.5 | 261.9 | OK |
| 44.5 | 7.2 | 5.1 | -5.4 | 57.9 | 9.3 | 6.7 | -7.1 | 0.2 | 13.8 | OK | 16.9 | -2.3 | 17.4 | 261.9 | OK |
| 66.3 | 10.6 | 7.5 | -1.1 | 86.2 | 13.8 | 9.8 | -1.4 | 0.3 | 13.8 | OK | 24.9 | -0.5 | 24.9 | 261.9 | OK |
| 65.1 | 10.5 | 7.0 | -1.3 | 84.7 | 13.6 | 9.1 | -1.7 | 0.3 | 13.8 | OK | 23.2 | -0.6 | 23.2 | 261.9 | OK |
| 65.6 | 10.5 | 7.4 | -0.5 | 85.3 | 13.7 | 9.6 | -0.6 | 0.3 | 13.8 | OK | 24.5 | -0.2 | 24.5 | 261.9 | OK |
| 54.1 | 8.7 | 10.3 | 2.3 | 70.4 | 11.3 | 13.4 | 3.0 | 0.3 | 13.8 | OK | 32.9 | 1.0 | 33.0 | 261.9 | OK |
| 49.0 | 7.9 | 8.6 | 0.9 | 63.6 | 10.2 | 11.2 | 1.1 | 0.3 | 13.8 | OK | 27.7 | 0.4 | 27.7 | 261.9 | OK |
| 63.3 | 10.2 | 7.7 | -0.3 | 82.3 | 13.2 | 10.0 | -0.4 | 0.3 | 13.8 | OK | 25.2 | -0.1 | 25.2 | 261.9 | OK |
| 43.5 | 7.0 | 9.5 | 5.0 | 56.5 | 9.1 | 12.4 | 6.5 | 0.2 | 13.8 | OK | 30.3 | 2.1 | 30.5 | 261.9 | OK |
| 27.1 | 4.4 | 6.4 | 3.9 | 35.2 | 5.7 | 8.3 | 5.1 | 0.1 | 13.8 | OK | 20.2 | 1.6 | 20.4 | 261.9 | OK |
| 64.5 | 10.4 | 8.1 | -0.2 | 83.9 | 13.5 | 10.6 | -0.3 | 0.3 | 13.8 | OK | 26.7 | -0.1 | 26.7 | 261.9 | OK |
| 39.4 | 6.3 | 8.3 | 1.4 | 51.2 | 8.2 | 10.8 | 1.8 | 0.2 | 13.8 | OK | 26.4 | 0.6 | 26.4 | 261.9 | OK |
| 59.8 | 9.6 | 9.0 | 1.2 | 77.7 | 12.5 | 11.7 | 1.6 | 0.3 | 13.8 | OK | 29.2 | 0.5 | 29.2 | 261.9 | OK |
| 57.8 | 9.3 | 8.4 | -0.5 | 75.1 | 12.1 | 10.9 | -0.6 | 0.3 | 13.8 | OK | 27.3 | -0.2 | 27.3 | 261.9 | OK |
| 32.6 | 5.2 | 7.5 | 7.7 | 42.4 | 6.8 | 9.8 | 10.0 | 0.2 | 13.8 | OK | 23.9 | 3.2 | 24.5 | 261.9 | OK |
| 39.3 | 6.3 | -33.8 | 4.7 | 51.1 | 8.2 | -43.9 | 6.1 | 0.2 | 13.8 | OK | 103.8 | 2.0 | 103.8 | 261.9 | OK |
| 33.8 | 5.4 | -28.6 | 4.9 | 44.0 | 7.1 | -37.1 | 6.4 | 0.2 | 13.8 | OK | 87.8 | 2.0 | 87.9 | 261.9 | OK |
| 20.5 | 3.3 | 2.7 | 9.5 | 26.7 | 4.3 | 3.5 | 12.3 | 0.1 | 13.8 | OK | 8.8 | 4.0 | 11.2 | 261.9 | OK |
| 3.0 | 0.5 | -12.9 | 12.1 | 3.9 | 0.6 | -16.7 | 15.8 | 0.0 | 13.8 | OK | 39.2 | 5.0 | 40.2 | 261.9 | OK |
| 16.0 | 2.6 | -21.1 | 8.8 | 20.8 | 3.3 | -27.5 | 11.4 | 0.1 | 13.8 | OK | 64.7 | 3.6 | 65.0 | 261.9 | OK |
| 10.2 | 1.6 | -11.9 | 9.1 | 13.2 | 2.1 | -15.5 | 11.8 | 0.1 | 13.8 | OK | 36.6 | 3.8 | 37.2 | 261.9 | OK |
| 70.2 | 11.3 | -27.7 | -7.0 | 91.3 | 14.7 | -36.1 | -9.1 | 0.4 | 13.8 | OK | 86.4 | -2.9 | 86.6 | 261.9 | OK |
| 9.6 | 1.5 | -23.8 | 11.3 | 12.4 | 2.0 | -30.9 | 14.7 | 0.0 | 13.8 | OK | 72.5 | 4.7 | 73.0 | 261.9 | OK |
| 17.4 | 2.8 | 2.3 | 5.6 | 22.6 | 3.6 | 3.0 | 7.2 | 0.1 | 13.8 | OK | 7.6 | 2.3 | 8.6 | 261.9 | OK |
| 9.8 | 1.6 | -3.9 | 7.1 | 12.7 | 2.0 | -5.0 | 9.2 | 0.1 | 13.8 | OK | 12.0 | 2.9 | 13.1 | 261.9 | OK |
| 70.3 | 11.3 | -33.0 | -11.8 | 91.4 | 14.7 | -42.8 | -15.3 | 0.4 | 13.8 | OK | 102.3 | -4.9 | 102.6 | 261.9 | OK |
| 12.0 | 1.9 | -4.7 | 10.8 | 15.6 | 2.5 | -6.1 | 14.1 | 0.1 | 13.8 | OK | 14.6 | 4.5 | 16.6 | 261.9 | OK |
| 177.7 | 28.5 | -7.1 | -26.4 | 231.0 | 37.1 | -9.3 | -34.3 | 0.9 | 13.8 | OK | 27.2 | -11.0 | 33.2 | 261.9 | OK |
| 324.6 | 52.1 | -26.8 | -59.4 | 422.0 | 67.8 | -34.8 | -77.2 | 1.7 | 13.8 | OK | 91.5 | -24.7 | 101.0 | 261.9 | OK |
| 258.6 | 41.5 | 12.9 | 15.2 | 336.2 | 54.0 | 16.7 | 19.8 | 1.3 | 13.8 | OK | 47.2 | 6.3 | 48.5 | 261.9 | OK |
| 133.1 | 21.4 | -20.5 | -24.1 | 173.0 | 27.8 | -26.7 | -31.3 | 0.7 | 13.8 | OK | 66.5 | -10.0 | 68.7 | 261.9 | OK |
| 92.2 | 14.8 | -16.2 | -15.7 | 119.8 | 19.2 | -21.1 | -20.4 | 0.5 | 13.8 | OK | 52.1 | -6.6 | 53.3 | 261.9 | OK |
| 167.2 | 26.9 | -4.9 | -38.7 | 217.4 | 34.9 | -6.4 | -50.3 | 0.9 | 13.8 | OK | 20.1 | -16.1 | 34.4 | 261.9 | OK |
| 253.4 | 40.7 | -0.6 | 2.0 | 329.4 | 52.9 | -0.8 | 2.6 | 1.3 | 13.8 | OK | 9.9 | 0.8 | 10.0 | 261.9 | OK |
| 305.6 | 49.1 | -1.4 | -0.3 | 397.3 | 63.8 | -1.8 | -0.3 | 1.6 | 13.8 | OK | 13.8 | -0.1 | 13.8 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|--------|-------|-------|-----|------|----|------|------|------|-------|----|
| 130.4 | 20.9 | -15.4 | 10.7 | 169.5 | 27.2 | -20.0 | 13.9 | 0.7 | 13.8 | OK | 50.7 | 4.5 | 51.3 | 261.9 | OK |
| 229.9 | 36.9 | -11.9 | 20.3 | 298.8 | 48.0 | -15.4 | 26.3 | 1.2 | 13.8 | OK | 43.3 | 8.4 | 45.7 | 261.9 | OK |
| 165.2 | 26.5 | -5.4 | 7.5 | 214.8 | 34.5 | -7.0 | 9.8 | 0.9 | 13.8 | OK | 21.6 | 3.1 | 22.2 | 261.9 | OK |
| 277.2 | 44.5 | -3.5 | 11.8 | 360.3 | 57.9 | -4.6 | 15.3 | 1.4 | 13.8 | OK | 19.3 | 4.9 | 21.1 | 261.9 | OK |
| 7.9 | 1.3 | 2.8 | -4.5 | 10.2 | 1.6 | 3.6 | -5.9 | 0.0 | 13.8 | OK | 8.7 | -1.9 | 9.3 | 261.9 | OK |
| 0.0 | -34.2 | -3.2 | -7.0 | 0.0 | -44.5 | -4.2 | -9.1 | 0.0 | 13.8 | OK | 16.4 | -2.9 | 17.2 | 261.9 | OK |
| 0.0 | -37.9 | -9.1 | -11.2 | 0.0 | -49.2 | -11.9 | -14.6 | 0.0 | 13.8 | OK | 35.2 | -4.7 | 36.1 | 261.9 | OK |
| 156.2 | 25.1 | -22.3 | 5.7 | 203.0 | 32.6 | -29.0 | 7.4 | 0.8 | 13.8 | OK | 72.6 | 2.4 | 72.8 | 261.9 | OK |
| 75.0 | 12.0 | -21.5 | 0.3 | 97.5 | 15.7 | -28.0 | 0.3 | 0.4 | 13.8 | OK | 67.7 | 0.1 | 67.7 | 261.9 | OK |
| 0.0 | -80.0 | -11.6 | -12.9 | 0.0 | -104.0 | -15.1 | -16.8 | 0.0 | 13.8 | OK | 50.8 | -5.4 | 51.6 | 261.9 | OK |
| 11.8 | 1.9 | -18.6 | -13.5 | 15.4 | 2.5 | -24.1 | -17.6 | 0.1 | 13.8 | OK | 56.8 | -5.6 | 57.6 | 261.9 | OK |
| 0.0 | -11.6 | 1.0 | -3.1 | 0.0 | -15.0 | 1.3 | -4.0 | 0.0 | 13.8 | OK | 5.4 | -1.3 | 5.8 | 261.9 | OK |
| 0.0 | -65.1 | -3.4 | -7.4 | 0.0 | -84.6 | -4.4 | -9.6 | 0.0 | 13.8 | OK | 23.0 | -3.1 | 23.6 | 261.9 | OK |
| 0.0 | -19.9 | 0.0 | -5.7 | 0.0 | -25.8 | 0.0 | -7.4 | 0.0 | 13.8 | OK | 3.9 | -2.4 | 5.7 | 261.9 | OK |
| 10.1 | 1.6 | -19.7 | -13.4 | 13.2 | 2.1 | -25.6 | -17.5 | 0.1 | 13.8 | OK | 60.2 | -5.6 | 61.0 | 261.9 | OK |
| 10.7 | 1.7 | 2.6 | -2.4 | 13.9 | 2.2 | 3.4 | -3.2 | 0.1 | 13.8 | OK | 8.3 | -1.0 | 8.5 | 261.9 | OK |
| 39.6 | 6.4 | 5.7 | -2.8 | 51.5 | 8.3 | 7.4 | -3.6 | 0.2 | 13.8 | OK | 18.5 | -1.2 | 18.6 | 261.9 | OK |
| 57.3 | 9.2 | 3.6 | -0.5 | 74.5 | 12.0 | 4.6 | -0.7 | 0.3 | 13.8 | OK | 12.6 | -0.2 | 12.6 | 261.9 | OK |
| 55.1 | 8.8 | 3.6 | -0.1 | 71.6 | 11.5 | 4.7 | -0.1 | 0.3 | 13.8 | OK | 12.7 | 0.0 | 12.7 | 261.9 | OK |
| 59.5 | 9.5 | 2.4 | -0.8 | 77.3 | 12.4 | 3.2 | -1.1 | 0.3 | 13.8 | OK | 9.3 | -0.3 | 9.3 | 261.9 | OK |
| 53.2 | 8.5 | 3.7 | -0.7 | 69.1 | 11.1 | 4.8 | -0.9 | 0.3 | 13.8 | OK | 12.9 | -0.3 | 12.9 | 261.9 | OK |
| 49.0 | 7.9 | 4.2 | -0.1 | 63.7 | 10.2 | 5.5 | -0.1 | 0.3 | 13.8 | OK | 14.4 | 0.0 | 14.4 | 261.9 | OK |
| 49.3 | 7.9 | 4.2 | -1.9 | 64.1 | 10.3 | 5.5 | -2.5 | 0.3 | 13.8 | OK | 14.3 | -0.8 | 14.4 | 261.9 | OK |
| 25.6 | 4.1 | 3.9 | -1.6 | 33.3 | 5.3 | 5.1 | -2.0 | 0.1 | 13.8 | OK | 12.6 | -0.7 | 12.7 | 261.9 | OK |
| 25.7 | 4.1 | 4.4 | -4.9 | 33.4 | 5.4 | 5.7 | -6.4 | 0.1 | 13.8 | OK | 14.2 | -2.0 | 14.6 | 261.9 | OK |
| 37.8 | 6.1 | 4.4 | -1.2 | 49.2 | 7.9 | 5.7 | -1.5 | 0.2 | 13.8 | OK | 14.4 | -0.5 | 14.5 | 261.9 | OK |
| 15.6 | 2.5 | 4.9 | 2.5 | 20.3 | 3.3 | 6.3 | 3.3 | 0.1 | 13.8 | OK | 15.3 | 1.1 | 15.4 | 261.9 | OK |
| 54.3 | 8.7 | 3.7 | -0.2 | 70.6 | 11.3 | 4.9 | -0.3 | 0.3 | 13.8 | OK | 13.1 | -0.1 | 13.1 | 261.9 | OK |
| 33.2 | 5.3 | 6.6 | 4.7 | 43.2 | 6.9 | 8.5 | 6.1 | 0.2 | 13.8 | OK | 21.0 | 2.0 | 21.3 | 261.9 | OK |
| 50.1 | 8.0 | 4.7 | -0.7 | 65.1 | 10.5 | 6.1 | -1.0 | 0.3 | 13.8 | OK | 15.9 | -0.3 | 15.9 | 261.9 | OK |
| 39.4 | 6.3 | 5.4 | 0.4 | 51.3 | 8.2 | 7.0 | 0.5 | 0.2 | 13.8 | OK | 17.5 | 0.2 | 17.5 | 261.9 | OK |
| 58.0 | 9.3 | 3.2 | -0.3 | 75.4 | 12.1 | 4.1 | -0.3 | 0.3 | 13.8 | OK | 11.4 | -0.1 | 11.4 | 261.9 | OK |
| 52.7 | 8.5 | 4.3 | 1.2 | 68.5 | 11.0 | 5.6 | 1.6 | 0.3 | 13.8 | OK | 14.7 | 0.5 | 14.7 | 261.9 | OK |
| 47.0 | 7.6 | 6.6 | 2.1 | 61.1 | 9.8 | 8.5 | 2.7 | 0.2 | 13.8 | OK | 21.4 | 0.9 | 21.4 | 261.9 | OK |
| 20.3 | 3.3 | 5.9 | 6.8 | 26.4 | 4.2 | 7.6 | 8.8 | 0.1 | 13.8 | OK | 18.5 | 2.8 | 19.1 | 261.9 | OK |
| 30.3 | 4.9 | 5.8 | 0.5 | 39.4 | 6.3 | 7.5 | 0.7 | 0.2 | 13.8 | OK | 18.4 | 0.2 | 18.4 | 261.9 | OK |
| 1.2 | 0.2 | 2.8 | 7.6 | 1.6 | 0.3 | 3.6 | 9.9 | 0.0 | 13.8 | OK | 8.5 | 3.2 | 10.1 | 261.9 | OK |
| 0.7 | 0.1 | -27.2 | 10.0 | 0.9 | 0.1 | -35.4 | 13.0 | 0.0 | 13.8 | OK | 82.7 | 4.2 | 83.0 | 261.9 | OK |
| 102.3 | 16.4 | -27.7 | -8.6 | 133.0 | 21.4 | -36.0 | -11.2 | 0.5 | 13.8 | OK | 87.3 | -3.6 | 87.6 | 261.9 | OK |
| 86.2 | 13.8 | -24.7 | -4.1 | 112.1 | 18.0 | -32.1 | -5.3 | 0.4 | 13.8 | OK | 77.7 | -1.7 | 77.7 | 261.9 | OK |
| 0.0 | -21.7 | -2.4 | 10.2 | 0.0 | -28.2 | -3.1 | 13.3 | 0.0 | 13.8 | OK | 11.5 | 4.3 | 13.6 | 261.9 | OK |
| 0.0 | -53.0 | -7.7 | 12.0 | 0.0 | -68.9 | -10.0 | 15.5 | 0.0 | 13.8 | OK | 33.7 | 5.0 | 34.7 | 261.9 | OK |
| 0.0 | -23.0 | -8.1 | 8.5 | 0.0 | -29.8 | -10.6 | 11.0 | 0.0 | 13.8 | OK | 29.2 | 3.5 | 29.8 | 261.9 | OK |
| 0.0 | -18.8 | -15.7 | 10.1 | 0.0 | -24.4 | -20.4 | 13.2 | 0.0 | 13.8 | OK | 51.4 | 4.2 | 51.9 | 261.9 | OK |
| 0.0 | -52.3 | -18.2 | 15.0 | 0.0 | -68.0 | -23.6 | 19.5 | 0.0 | 13.8 | OK | 65.3 | 6.2 | 66.2 | 261.9 | OK |
| 0.0 | -12.8 | -1.5 | 5.1 | 0.0 | -16.6 | -1.9 | 6.7 | 0.0 | 13.8 | OK | 7.0 | 2.1 | 7.9 | 261.9 | OK |
| 3.4 | 0.6 | 2.3 | 3.7 | 4.5 | 0.7 | 3.0 | 4.9 | 0.0 | 13.8 | OK | 7.1 | 1.6 | 7.6 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|-------|-------|-------|--------|-------|-------|--------|-----|------|----|-------|-------|-------|-------|----|
| 22.4 | 3.6 | -24.7 | 8.5 | 29.2 | 4.7 | -32.1 | 11.1 | 0.1 | 13.8 | OK | 75.7 | 3.6 | 75.9 | 261.9 | OK |
| 321.1 | 51.6 | 22.1 | 58.5 | 417.4 | 67.0 | 28.7 | 76.1 | 1.7 | 13.8 | OK | 77.0 | 24.4 | 87.9 | 261.9 | OK |
| 244.3 | 39.2 | -11.1 | 7.4 | 317.6 | 51.0 | -14.5 | 9.7 | 1.3 | 13.8 | OK | 41.4 | 3.1 | 41.8 | 261.9 | OK |
| 241.8 | 38.8 | -2.9 | -30.6 | 314.4 | 50.5 | -3.8 | -39.8 | 1.3 | 13.8 | OK | 16.4 | -12.7 | 27.5 | 261.9 | OK |
| 154.4 | 24.8 | -14.1 | -17.9 | 200.7 | 32.2 | -18.3 | -23.2 | 0.8 | 13.8 | OK | 47.6 | -7.4 | 49.3 | 261.9 | OK |
| 205.7 | 33.0 | -15.4 | -96.8 | 267.4 | 42.9 | -20.0 | -125.8 | 1.1 | 13.8 | OK | 53.1 | -40.3 | 87.7 | 261.9 | OK |
| 295.0 | 47.4 | 21.6 | -1.6 | 383.5 | 61.6 | 28.0 | -2.1 | 1.5 | 13.8 | OK | 74.7 | -0.7 | 74.7 | 261.9 | OK |
| 536.9 | 86.2 | 33.3 | 26.0 | 697.9 | 112.1 | 43.2 | 33.8 | 2.8 | 13.8 | OK | 117.8 | 10.8 | 119.3 | 261.9 | OK |
| 1110.6 | 178.3 | 70.8 | -45.0 | 1443.8 | 231.8 | 92.0 | -58.5 | 5.8 | 13.8 | OK | 249.7 | -18.7 | 251.8 | 261.9 | OK |
| 723.6 | 116.2 | 46.6 | -14.9 | 940.7 | 151.0 | 60.6 | -19.4 | 3.8 | 13.8 | OK | 164.1 | -6.2 | 164.4 | 261.9 | OK |
| 228.6 | 36.7 | 66.4 | 83.8 | 297.2 | 47.7 | 86.3 | 108.9 | 1.2 | 13.8 | OK | 208.8 | 34.9 | 217.4 | 261.9 | OK |
| 682.8 | 109.6 | 17.9 | -49.6 | 887.6 | 142.5 | 23.3 | -64.5 | 3.6 | 13.8 | OK | 75.8 | -20.7 | 83.8 | 261.9 | OK |
| 1175.5 | 188.7 | 7.0 | -71.5 | 1528.1 | 245.4 | 9.1 | -93.0 | 6.1 | 13.8 | OK | 58.0 | -29.8 | 77.6 | 261.9 | OK |
| 1424.6 | 228.7 | -5.6 | -35.4 | 1852.0 | 297.4 | -7.2 | -46.0 | 7.4 | 13.8 | OK | 61.4 | -14.8 | 66.5 | 261.9 | OK |
| 75.5 | 12.1 | -1.5 | 10.7 | 98.1 | 15.8 | -1.9 | 13.8 | 0.4 | 13.8 | OK | 6.9 | 4.4 | 10.3 | 261.9 | OK |
| 1101.6 | 176.9 | -6.1 | -11.0 | 1432.1 | 229.9 | -7.9 | -14.3 | 5.7 | 13.8 | OK | 52.9 | -4.6 | 53.5 | 261.9 | OK |
| 255.9 | 41.1 | -11.0 | 12.3 | 332.6 | 53.4 | -14.3 | 15.9 | 1.3 | 13.8 | OK | 41.4 | 5.1 | 42.3 | 261.9 | OK |
| 8.7 | 1.4 | -1.5 | 6.0 | 11.3 | 1.8 | -1.9 | 7.8 | 0.0 | 13.8 | OK | 4.8 | 2.5 | 6.5 | 261.9 | OK |
| 162.6 | 26.1 | -6.3 | 7.4 | 211.3 | 33.9 | -8.2 | 9.6 | 0.8 | 13.8 | OK | 24.2 | 3.1 | 24.8 | 261.9 | OK |
| 108.1 | 17.4 | -5.5 | 9.1 | 140.6 | 22.6 | -7.2 | 11.8 | 0.6 | 13.8 | OK | 20.2 | 3.8 | 21.2 | 261.9 | OK |
| 354.9 | 57.0 | -3.8 | 4.2 | 461.4 | 74.1 | -5.0 | 5.5 | 1.8 | 13.8 | OK | 22.7 | 1.8 | 22.9 | 261.9 | OK |
| 650.1 | 104.4 | -16.1 | -27.4 | 845.1 | 135.7 | -20.9 | -35.7 | 3.4 | 13.8 | OK | 69.2 | -11.4 | 72.0 | 261.9 | OK |
| 747.4 | 120.0 | -5.4 | 0.9 | 971.6 | 156.0 | -7.0 | 1.2 | 3.9 | 13.8 | OK | 39.8 | 0.4 | 39.8 | 261.9 | OK |
| 0.0 | -17.4 | -1.2 | 4.7 | 0.0 | -22.6 | -1.6 | 6.1 | 0.0 | 13.8 | OK | 7.1 | 2.0 | 7.9 | 261.9 | OK |
| 480.1 | 77.1 | -14.1 | 1.7 | 624.2 | 100.2 | -18.3 | 2.3 | 2.5 | 13.8 | OK | 57.7 | 0.7 | 57.8 | 261.9 | OK |
| 37.5 | 6.0 | -8.0 | -2.1 | 48.7 | 7.8 | -10.4 | -2.7 | 0.2 | 13.8 | OK | 25.5 | -0.9 | 25.5 | 261.9 | OK |
| 26.4 | 4.2 | -0.8 | 3.8 | 34.3 | 5.5 | -1.0 | 4.9 | 0.1 | 13.8 | OK | 3.1 | 1.6 | 4.2 | 261.9 | OK |
| 23.7 | 3.8 | -5.1 | -1.7 | 30.7 | 4.9 | -6.7 | -2.2 | 0.1 | 13.8 | OK | 16.3 | -0.7 | 16.4 | 261.9 | OK |
| 7.6 | 1.2 | -3.1 | -0.9 | 9.9 | 1.6 | -4.0 | -1.1 | 0.0 | 13.8 | OK | 9.7 | -0.4 | 9.7 | 261.9 | OK |
| 30.5 | 4.9 | 0.8 | 5.8 | 39.7 | 6.4 | 1.1 | 7.6 | 0.2 | 13.8 | OK | 3.5 | 2.4 | 5.5 | 261.9 | OK |
| 0.0 | -24.3 | -0.3 | 2.5 | 0.0 | -31.5 | -0.4 | 3.3 | 0.0 | 13.8 | OK | 5.6 | 1.0 | 5.9 | 261.9 | OK |
| 0.0 | -2.3 | 0.1 | 0.2 | 0.0 | -2.9 | 0.1 | 0.3 | 0.0 | 13.8 | OK | 0.7 | 0.1 | 0.7 | 261.9 | OK |
| 39.6 | 6.4 | -10.9 | 3.0 | 51.5 | 8.3 | -14.2 | 3.8 | 0.2 | 13.8 | OK | 34.4 | 1.2 | 34.5 | 261.9 | OK |
| 35.3 | 5.7 | -2.9 | -0.3 | 45.9 | 7.4 | -3.7 | -0.5 | 0.2 | 13.8 | OK | 9.8 | -0.1 | 9.8 | 261.9 | OK |
| 25.5 | 4.1 | -7.7 | 0.7 | 33.2 | 5.3 | -10.0 | 0.9 | 0.1 | 13.8 | OK | 24.1 | 0.3 | 24.1 | 261.9 | OK |
| 38.0 | 6.1 | -8.6 | -1.0 | 49.3 | 7.9 | -11.2 | -1.3 | 0.2 | 13.8 | OK | 27.3 | -0.4 | 27.3 | 261.9 | OK |
| 0.0 | -16.6 | 1.3 | -1.7 | 0.0 | -21.6 | 1.6 | -2.2 | 0.0 | 13.8 | OK | 7.1 | -0.7 | 7.2 | 261.9 | OK |
| 11.7 | 1.9 | -2.5 | 1.1 | 15.2 | 2.4 | -3.3 | 1.5 | 0.1 | 13.8 | OK | 8.1 | 0.5 | 8.1 | 261.9 | OK |
| 23.8 | 3.8 | -7.5 | 1.9 | 30.9 | 5.0 | -9.7 | 2.5 | 0.1 | 13.8 | OK | 23.4 | 0.8 | 23.4 | 261.9 | OK |
| 39.6 | 6.4 | -12.0 | 4.0 | 51.5 | 8.3 | -15.5 | 5.2 | 0.2 | 13.8 | OK | 37.6 | 1.7 | 37.7 | 261.9 | OK |
| 32.5 | 5.2 | -4.4 | 0.2 | 42.3 | 6.8 | -5.7 | 0.3 | 0.2 | 13.8 | OK | 14.3 | 0.1 | 14.3 | 261.9 | OK |
| 27.8 | 4.5 | -0.7 | -6.1 | 36.2 | 5.8 | -0.9 | -7.9 | 0.1 | 13.8 | OK | 3.0 | -2.5 | 5.3 | 261.9 | OK |
| 0.0 | -5.7 | -0.9 | 0.3 | 0.0 | -7.4 | -1.2 | 0.4 | 0.0 | 13.8 | OK | 3.9 | 0.1 | 3.9 | 261.9 | OK |
| 28.2 | 4.5 | 0.5 | -0.8 | 36.6 | 5.9 | 0.7 | -1.0 | 0.1 | 13.8 | OK | 2.5 | -0.3 | 2.5 | 261.9 | OK |
| 17.6 | 2.8 | -6.1 | 0.0 | 22.9 | 3.7 | -7.9 | 0.1 | 0.1 | 13.8 | OK | 19.0 | 0.0 | 19.0 | 261.9 | OK |
| 12.3 | 2.0 | -0.6 | -6.1 | 15.9 | 2.6 | -0.8 | -8.0 | 0.1 | 13.8 | OK | 2.3 | -2.5 | 5.0 | 261.9 | OK |
| 1053.7 | 169.2 | -0.6 | 29.9 | 1369.9 | 219.9 | -0.8 | 38.9 | 5.5 | 13.8 | OK | 34.7 | 12.5 | 40.9 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|--------|-------|--------|--------|--------|-------|--------|-----|------|----|-------|-------|-------|-------|----|
| 1451.7 | 233.1 | 14.9 | 39.5 | 1887.2 | 303.0 | 19.4 | 51.3 | 7.5 | 13.8 | OK | 90.7 | 16.4 | 95.1 | 261.9 | OK |
| 0.0 | -18.0 | -0.8 | -4.6 | 0.0 | -23.4 | -1.1 | -6.0 | 0.0 | 13.8 | OK | 6.0 | -1.9 | 6.8 | 261.9 | OK |
| 561.8 | 90.2 | -6.7 | 14.7 | 730.3 | 117.3 | -8.8 | 19.2 | 2.9 | 13.8 | OK | 38.0 | 6.1 | 39.5 | 261.9 | OK |
| 387.2 | 62.2 | -3.4 | -4.1 | 503.4 | 80.8 | -4.4 | -5.3 | 2.0 | 13.8 | OK | 22.4 | -1.7 | 22.6 | 261.9 | OK |
| 122.7 | 19.7 | -4.2 | -8.1 | 159.5 | 25.6 | -5.4 | -10.5 | 0.6 | 13.8 | OK | 16.5 | -3.4 | 17.5 | 261.9 | OK |
| 266.5 | 42.8 | -9.5 | -9.0 | 346.5 | 55.6 | -12.3 | -11.7 | 1.4 | 13.8 | OK | 37.1 | -3.7 | 37.6 | 261.9 | OK |
| 798.2 | 128.2 | -6.9 | 1.8 | 1037.7 | 166.6 | -8.9 | 2.4 | 4.2 | 13.8 | OK | 45.8 | 0.8 | 45.8 | 261.9 | OK |
| 178.1 | 28.6 | -5.1 | -7.2 | 231.5 | 37.2 | -6.7 | -9.4 | 0.9 | 13.8 | OK | 21.2 | -3.0 | 21.8 | 261.9 | OK |
| 66.9 | 10.7 | -0.7 | -9.1 | 86.9 | 14.0 | -1.0 | -11.8 | 0.3 | 13.8 | OK | 4.3 | -3.8 | 7.9 | 261.9 | OK |
| 451.5 | 72.5 | -8.1 | 1.1 | 586.9 | 94.2 | -10.6 | 1.5 | 2.3 | 13.8 | OK | 38.8 | 0.5 | 38.8 | 261.9 | OK |
| 533.3 | 85.6 | 3.5 | 17.9 | 693.2 | 111.3 | 4.5 | 23.3 | 2.8 | 13.8 | OK | 27.2 | 7.5 | 30.1 | 261.9 | OK |
| 548.9 | 88.1 | 7.5 | 3.9 | 713.6 | 114.6 | 9.8 | 5.0 | 2.9 | 13.8 | OK | 40.0 | 1.6 | 40.1 | 261.9 | OK |
| 745.3 | 119.7 | 9.7 | -1.6 | 968.9 | 155.6 | 12.6 | -2.1 | 3.9 | 13.8 | OK | 52.6 | -0.7 | 52.7 | 261.9 | OK |
| 532.7 | 85.5 | -0.3 | 8.7 | 692.5 | 111.2 | -0.4 | 11.4 | 2.8 | 13.8 | OK | 17.7 | 3.6 | 18.8 | 261.9 | OK |
| 196.4 | 31.5 | 0.6 | -1.1 | 255.3 | 41.0 | 0.8 | -1.4 | 1.0 | 13.8 | OK | 8.0 | -0.5 | 8.0 | 261.9 | OK |
| 818.4 | 131.4 | 13.5 | -9.3 | 1063.9 | 170.8 | 17.6 | -12.1 | 4.3 | 13.8 | OK | 66.7 | -3.9 | 67.0 | 261.9 | OK |
| 1517.4 | 288.1 | 14.2 | -54.9 | 1972.7 | 374.6 | 18.5 | -71.4 | 7.9 | 13.8 | OK | 80.6 | -19.2 | 87.3 | 261.9 | OK |
| 0.0 | -178.1 | -17.8 | -27.7 | 0.0 | -231.5 | -23.1 | -36.0 | 0.0 | 13.8 | OK | 70.9 | -9.7 | 72.9 | 261.9 | OK |
| 1349.4 | 256.2 | 82.5 | -135.5 | 1754.2 | 333.1 | 107.2 | -176.2 | 7.0 | 13.8 | OK | 235.0 | -47.5 | 248.9 | 261.9 | OK |
| 116.4 | 22.1 | 28.9 | 310.4 | 151.3 | 28.7 | 37.5 | 403.5 | 0.6 | 13.8 | OK | 71.2 | 108.8 | 201.4 | 261.9 | OK |
| 1119.6 | 212.6 | 19.0 | -36.0 | 1455.5 | 276.4 | 24.6 | -46.8 | 5.8 | 13.8 | OK | 79.3 | -12.6 | 82.3 | 261.9 | OK |
| 987.3 | 187.5 | 12.8 | -28.3 | 1283.5 | 243.7 | 16.6 | -36.8 | 5.1 | 13.8 | OK | 60.7 | -9.9 | 63.1 | 261.9 | OK |
| 1055.5 | 200.4 | 15.6 | -44.3 | 1372.2 | 260.6 | 20.2 | -57.6 | 5.5 | 13.8 | OK | 69.4 | -15.5 | 74.4 | 261.9 | OK |
| 607.5 | 115.3 | 0.1 | 1.4 | 789.7 | 150.0 | 0.1 | 1.9 | 3.2 | 13.8 | OK | 19.1 | 0.5 | 19.1 | 261.9 | OK |
| 489.1 | 92.9 | 1.3 | 0.6 | 635.9 | 120.7 | 1.7 | 0.8 | 2.5 | 13.8 | OK | 18.4 | 0.2 | 18.4 | 261.9 | OK |
| 1259.4 | 239.2 | 11.2 | -51.6 | 1637.3 | 310.9 | 14.6 | -67.1 | 6.5 | 13.8 | OK | 65.6 | -18.1 | 72.7 | 261.9 | OK |
| 51.7 | 9.8 | -3.5 | 56.4 | 67.2 | 12.8 | -4.5 | 73.3 | 0.3 | 13.8 | OK | 9.8 | 19.8 | 35.6 | 261.9 | OK |
| 0.0 | -17.8 | -19.9 | 13.9 | 0.0 | -23.1 | -25.9 | 18.1 | 0.0 | 13.8 | OK | 49.5 | 4.9 | 50.2 | 261.9 | OK |
| 87.4 | 16.6 | -23.4 | 4.9 | 113.6 | 21.6 | -30.4 | 6.4 | 0.5 | 13.8 | OK | 57.4 | 1.7 | 57.4 | 261.9 | OK |
| 97.8 | 18.6 | -25.5 | -5.3 | 127.2 | 24.1 | -33.2 | -6.8 | 0.5 | 13.8 | OK | 62.7 | -1.8 | 62.8 | 261.9 | OK |
| 91.0 | 17.3 | -12.8 | 28.8 | 118.4 | 22.5 | -16.6 | 37.4 | 0.5 | 13.8 | OK | 32.7 | 10.1 | 37.0 | 261.9 | OK |
| 91.2 | 17.3 | -27.0 | -8.1 | 118.5 | 22.5 | -35.2 | -10.5 | 0.5 | 13.8 | OK | 66.1 | -2.8 | 66.3 | 261.9 | OK |
| 83.1 | 15.8 | -1.8 | 12.5 | 108.0 | 20.5 | -2.3 | 16.3 | 0.4 | 13.8 | OK | 6.8 | 4.4 | 10.2 | 261.9 | OK |
| 80.1 | 15.2 | -16.1 | 51.3 | 104.2 | 19.8 | -20.9 | 66.7 | 0.4 | 13.8 | OK | 40.2 | 18.0 | 50.8 | 261.9 | OK |
| 143.5 | 27.2 | 1.9 | 26.4 | 186.5 | 35.4 | 2.5 | 34.4 | 0.7 | 13.8 | OK | 8.9 | 9.3 | 18.4 | 261.9 | OK |
| 123.6 | 23.5 | -0.1 | 56.1 | 160.7 | 30.5 | -0.1 | 72.9 | 0.6 | 13.8 | OK | 4.1 | 19.6 | 34.3 | 261.9 | OK |
| 116.2 | 22.1 | -22.5 | -5.1 | 151.1 | 28.7 | -29.3 | -6.6 | 0.6 | 13.8 | OK | 56.3 | -1.8 | 56.4 | 261.9 | OK |
| 103.2 | 19.6 | -28.6 | -6.2 | 134.2 | 25.5 | -37.1 | -8.1 | 0.5 | 13.8 | OK | 70.0 | -2.2 | 70.1 | 261.9 | OK |
| 60.9 | 11.6 | -17.0 | 13.6 | 79.2 | 15.0 | -22.1 | 17.6 | 0.3 | 13.8 | OK | 41.7 | 4.7 | 42.5 | 261.9 | OK |
| 141.5 | 26.9 | -22.7 | 2.3 | 184.0 | 34.9 | -29.5 | 3.0 | 0.7 | 13.8 | OK | 57.5 | 0.8 | 57.5 | 261.9 | OK |
| 179.9 | 34.2 | -10.9 | 29.4 | 233.9 | 44.4 | -14.1 | 38.2 | 0.9 | 13.8 | OK | 31.0 | 10.3 | 35.8 | 261.9 | OK |
| 183.2 | 34.8 | -13.8 | 46.6 | 238.1 | 45.2 | -17.9 | 60.5 | 1.0 | 13.8 | OK | 37.9 | 16.3 | 47.3 | 261.9 | OK |
| 52.8 | 10.0 | 5.3 | -1.6 | 68.6 | 13.0 | 6.9 | -2.1 | 0.3 | 13.8 | OK | 14.1 | -0.6 | 14.1 | 261.9 | OK |
| 188.6 | 35.8 | 8.2 | -19.5 | 245.2 | 46.6 | 10.7 | -25.4 | 1.0 | 13.8 | OK | 25.1 | -6.8 | 27.7 | 261.9 | OK |
| 42.4 | 8.0 | 2.7 | 11.0 | 55.1 | 10.5 | 3.5 | 14.3 | 0.2 | 13.8 | OK | 7.7 | 3.8 | 10.2 | 261.9 | OK |
| 258.3 | 49.0 | -4.0 | 14.6 | 335.8 | 63.8 | -5.2 | 19.0 | 1.3 | 13.8 | OK | 17.4 | 5.1 | 19.6 | 261.9 | OK |
| 133.6 | 25.4 | 6.6 | 6.0 | 173.7 | 33.0 | 8.6 | 7.8 | 0.7 | 13.8 | OK | 19.6 | 2.1 | 20.0 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|--------|-----|------|----|------|-------|------|-------|----|
| 217.5 | 41.3 | -2.3 | 35.6 | 282.7 | 53.7 | -2.9 | 46.3 | 1.1 | 13.8 | OK | 12.1 | 12.5 | 24.8 | 261.9 | OK |
| 145.1 | 27.6 | 3.8 | 41.5 | 188.7 | 35.8 | 5.0 | 53.9 | 0.8 | 13.8 | OK | 13.5 | 14.5 | 28.6 | 261.9 | OK |
| 128.7 | 24.4 | 10.0 | 8.7 | 167.3 | 31.8 | 13.0 | 11.3 | 0.7 | 13.8 | OK | 27.5 | 3.0 | 28.0 | 261.9 | OK |
| 94.2 | 17.9 | -13.5 | 5.5 | 122.5 | 23.3 | -17.5 | 7.1 | 0.5 | 13.8 | OK | 34.4 | 1.9 | 34.6 | 261.9 | OK |
| 244.5 | 46.4 | -12.7 | 19.9 | 317.9 | 60.4 | -16.5 | 25.8 | 1.3 | 13.8 | OK | 37.2 | 7.0 | 39.2 | 261.9 | OK |
| 206.7 | 39.2 | -13.3 | 26.4 | 268.6 | 51.0 | -17.3 | 34.3 | 1.1 | 13.8 | OK | 37.5 | 9.2 | 40.8 | 261.9 | OK |
| 75.9 | 14.4 | -12.0 | 13.2 | 98.6 | 18.7 | -15.6 | 17.2 | 0.4 | 13.8 | OK | 30.4 | 4.6 | 31.4 | 261.9 | OK |
| 110.0 | 20.9 | 0.9 | 49.4 | 143.0 | 27.2 | 1.1 | 64.2 | 0.6 | 13.8 | OK | 5.5 | 17.3 | 30.5 | 261.9 | OK |
| 206.5 | 39.2 | -8.2 | 45.1 | 268.4 | 51.0 | -10.6 | 58.6 | 1.1 | 13.8 | OK | 25.5 | 15.8 | 37.4 | 261.9 | OK |
| 33.4 | 6.3 | 4.3 | 9.6 | 43.4 | 8.2 | 5.6 | 12.5 | 0.2 | 13.8 | OK | 11.1 | 3.4 | 12.5 | 261.9 | OK |
| 291.3 | 55.3 | -14.8 | -10.4 | 378.7 | 71.9 | -19.2 | -13.6 | 1.5 | 13.8 | OK | 43.6 | -3.7 | 44.1 | 261.9 | OK |
| 135.3 | 25.7 | 5.2 | -14.4 | 176.0 | 33.4 | 6.8 | -18.8 | 0.7 | 13.8 | OK | 16.5 | -5.1 | 18.7 | 261.9 | OK |
| 0.0 | -9.5 | 5.7 | -0.5 | 0.0 | -12.4 | 7.4 | -0.6 | 0.0 | 13.8 | OK | 14.8 | -0.2 | 14.8 | 261.9 | OK |
| 302.7 | 57.5 | -12.2 | -9.2 | 393.5 | 74.7 | -15.9 | -12.0 | 1.6 | 13.8 | OK | 38.1 | -3.2 | 38.5 | 261.9 | OK |
| 182.4 | 34.6 | 3.7 | -7.6 | 237.2 | 45.0 | 4.8 | -9.9 | 0.9 | 13.8 | OK | 14.3 | -2.7 | 15.0 | 261.9 | OK |
| 449.1 | 85.3 | 23.0 | -93.6 | 583.9 | 110.9 | 29.9 | -121.6 | 2.3 | 13.8 | OK | 67.8 | -32.8 | 88.4 | 261.9 | OK |
| 249.9 | 47.5 | 24.5 | -35.9 | 324.9 | 61.7 | 31.8 | -46.7 | 1.3 | 13.8 | OK | 65.1 | -12.6 | 68.6 | 261.9 | OK |
| 97.0 | 18.4 | 7.8 | -9.1 | 126.1 | 23.9 | 10.2 | -11.8 | 0.5 | 13.8 | OK | 21.3 | -3.2 | 22.0 | 261.9 | OK |
| 130.3 | 24.7 | 3.5 | -21.2 | 169.4 | 32.2 | 4.5 | -27.6 | 0.7 | 13.8 | OK | 12.2 | -7.4 | 17.7 | 261.9 | OK |
| 366.9 | 69.7 | 3.6 | -27.3 | 476.9 | 90.6 | 4.7 | -35.5 | 1.9 | 13.8 | OK | 19.9 | -9.6 | 25.9 | 261.9 | OK |
| 0.0 | -2.6 | 9.1 | -18.3 | 0.0 | -3.4 | 11.9 | -23.8 | 0.0 | 13.8 | OK | 21.8 | -6.4 | 24.4 | 261.9 | OK |
| 101.8 | 19.3 | 1.2 | -9.7 | 132.4 | 25.1 | 1.6 | -12.6 | 0.5 | 13.8 | OK | 6.0 | -3.4 | 8.4 | 261.9 | OK |
| 94.5 | 17.9 | 8.6 | -27.5 | 122.9 | 23.3 | 11.2 | -35.8 | 0.5 | 13.8 | OK | 23.1 | -9.6 | 28.5 | 261.9 | OK |
| 0.0 | -16.0 | 1.5 | -11.7 | 0.0 | -20.8 | 1.9 | -15.2 | 0.0 | 13.8 | OK | 6.1 | -4.1 | 9.4 | 261.9 | OK |
| 153.6 | 29.2 | 15.1 | -17.7 | 199.7 | 37.9 | 19.6 | -23.0 | 0.8 | 13.8 | OK | 40.0 | -6.2 | 41.4 | 261.9 | OK |
| 203.7 | 38.7 | 7.2 | -8.2 | 264.8 | 50.3 | 9.4 | -10.7 | 1.1 | 13.8 | OK | 23.2 | -2.9 | 23.7 | 261.9 | OK |
| 56.6 | 10.7 | -20.3 | -14.1 | 73.6 | 14.0 | -26.4 | -18.4 | 0.3 | 13.8 | OK | 49.3 | -4.9 | 50.0 | 261.9 | OK |
| 120.2 | 22.8 | 6.1 | 34.6 | 156.3 | 29.7 | 8.0 | 45.0 | 0.6 | 13.8 | OK | 18.1 | 12.1 | 27.7 | 261.9 | OK |
| 11.6 | 2.2 | -22.3 | -9.9 | 15.1 | 2.9 | -28.9 | -12.9 | 0.1 | 13.8 | OK | 52.4 | -3.5 | 52.8 | 261.9 | OK |
| 0.0 | -43.2 | -18.9 | 13.3 | 0.0 | -56.2 | -24.5 | 17.3 | 0.0 | 13.8 | OK | 51.2 | 4.7 | 51.8 | 261.9 | OK |
| 1.5 | 0.3 | -27.9 | -3.8 | 2.0 | 0.4 | -36.3 | -4.9 | 0.0 | 13.8 | OK | 65.4 | -1.3 | 65.4 | 261.9 | OK |
| 53.8 | 10.2 | -29.5 | -13.6 | 69.9 | 13.3 | -38.3 | -17.7 | 0.3 | 13.8 | OK | 70.6 | -4.8 | 71.1 | 261.9 | OK |
| 0.0 | -29.7 | -23.0 | 1.1 | 0.0 | -38.6 | -29.9 | 1.5 | 0.0 | 13.8 | OK | 58.6 | 0.4 | 58.6 | 261.9 | OK |
| 18.6 | 3.5 | -4.0 | 33.1 | 24.2 | 4.6 | -5.1 | 43.0 | 0.1 | 13.8 | OK | 9.8 | 11.6 | 22.4 | 261.9 | OK |
| 0.0 | -7.1 | -17.9 | 9.5 | 0.0 | -9.2 | -23.3 | 12.3 | 0.0 | 13.8 | OK | 43.0 | 3.3 | 43.4 | 261.9 | OK |
| 51.7 | 9.8 | -6.5 | 61.7 | 67.2 | 12.8 | -8.5 | 80.2 | 0.3 | 13.8 | OK | 16.8 | 21.6 | 41.0 | 261.9 | OK |
| 64.9 | 12.3 | -20.8 | -9.7 | 84.4 | 16.0 | -27.0 | -12.6 | 0.3 | 13.8 | OK | 50.7 | -3.4 | 51.0 | 261.9 | OK |
| 92.2 | 17.5 | -28.2 | -14.3 | 119.8 | 22.8 | -36.7 | -18.5 | 0.5 | 13.8 | OK | 68.8 | -5.0 | 69.4 | 261.9 | OK |
| 46.2 | 8.8 | -18.2 | 14.0 | 60.0 | 11.4 | -23.7 | 18.2 | 0.2 | 13.8 | OK | 44.1 | 4.9 | 44.9 | 261.9 | OK |
| 62.3 | 11.8 | -17.0 | 13.1 | 81.0 | 15.4 | -22.1 | 17.0 | 0.3 | 13.8 | OK | 41.7 | 4.6 | 42.4 | 261.9 | OK |
| 69.4 | 13.2 | -20.6 | -18.3 | 90.2 | 17.1 | -26.8 | -23.8 | 0.4 | 13.8 | OK | 50.3 | -6.4 | 51.5 | 261.9 | OK |
| 171.6 | 32.6 | 6.0 | 41.9 | 223.0 | 42.3 | 7.9 | 54.5 | 0.9 | 13.8 | OK | 19.5 | 14.7 | 32.1 | 261.9 | OK |
| 75.4 | 14.3 | -28.1 | -3.9 | 98.0 | 18.6 | -36.5 | -5.0 | 0.4 | 13.8 | OK | 68.1 | -1.4 | 68.1 | 261.9 | OK |
| 53.6 | 10.2 | -21.6 | 0.9 | 69.7 | 13.2 | -28.1 | 1.2 | 0.3 | 13.8 | OK | 52.3 | 0.3 | 52.3 | 261.9 | OK |
| 150.5 | 28.6 | -5.7 | 60.6 | 195.7 | 37.2 | -7.4 | 78.7 | 0.8 | 13.8 | OK | 18.0 | 21.2 | 40.9 | 261.9 | OK |
| 65.7 | 12.5 | -3.1 | 36.1 | 85.4 | 16.2 | -4.1 | 46.9 | 0.3 | 13.8 | OK | 9.3 | 12.6 | 23.8 | 261.9 | OK |
| 252.0 | 47.8 | 6.6 | 16.9 | 327.6 | 62.2 | 8.6 | 22.0 | 1.3 | 13.8 | OK | 23.4 | 5.9 | 25.5 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|--------|-------|--------|--------|---------|-------|--------|-----|------|----|-------|-------|-------|-------|----|
| 197.1 | 37.4 | 1.3 | -27.4 | 256.2 | 48.7 | 1.7 | -35.6 | 1.0 | 13.8 | OK | 9.2 | -9.6 | 19.0 | 261.9 | OK |
| 286.9 | 54.5 | 19.8 | -49.5 | 372.9 | 70.8 | 25.7 | -64.3 | 1.5 | 13.8 | OK | 55.3 | -17.3 | 62.9 | 261.9 | OK |
| 104.2 | 19.8 | 8.1 | -31.7 | 135.5 | 25.7 | 10.6 | -41.2 | 0.5 | 13.8 | OK | 22.2 | -11.1 | 29.4 | 261.9 | OK |
| 114.9 | 21.8 | -9.5 | -16.1 | 149.4 | 28.4 | -12.4 | -21.0 | 0.6 | 13.8 | OK | 25.9 | -5.7 | 27.7 | 261.9 | OK |
| 20.9 | 4.0 | -11.7 | -13.7 | 27.2 | 5.2 | -15.2 | -17.8 | 0.1 | 13.8 | OK | 27.9 | -4.8 | 29.1 | 261.9 | OK |
| 286.0 | 54.3 | -5.3 | -23.5 | 371.9 | 70.6 | -6.9 | -30.6 | 1.5 | 13.8 | OK | 21.4 | -8.2 | 25.7 | 261.9 | OK |
| 117.8 | 22.4 | 4.7 | -35.1 | 153.1 | 29.1 | 6.1 | -45.6 | 0.6 | 13.8 | OK | 14.6 | -12.3 | 25.8 | 261.9 | OK |
| 166.6 | 31.6 | 8.4 | -2.1 | 216.6 | 41.1 | 10.9 | -2.8 | 0.9 | 13.8 | OK | 24.9 | -0.8 | 24.9 | 261.9 | OK |
| 18.4 | 3.5 | -7.9 | -11.3 | 24.0 | 4.5 | -10.2 | -14.6 | 0.1 | 13.8 | OK | 18.9 | -3.9 | 20.1 | 261.9 | OK |
| 135.7 | 25.8 | -9.8 | -4.8 | 176.4 | 33.5 | -12.8 | -6.3 | 0.7 | 13.8 | OK | 27.3 | -1.7 | 27.4 | 261.9 | OK |
| 255.7 | 48.5 | 8.3 | -32.1 | 332.4 | 63.1 | 10.8 | -41.7 | 1.3 | 13.8 | OK | 27.4 | -11.2 | 33.6 | 261.9 | OK |
| 74.3 | 14.1 | -10.4 | -9.7 | 96.6 | 18.3 | -13.5 | -12.6 | 0.4 | 13.8 | OK | 26.6 | -3.4 | 27.2 | 261.9 | OK |
| 26.8 | 5.1 | -12.1 | -8.2 | 34.8 | 6.6 | -15.7 | -10.7 | 0.1 | 13.8 | OK | 29.0 | -2.9 | 29.5 | 261.9 | OK |
| 404.8 | 76.9 | 2.2 | -35.0 | 526.2 | 99.9 | 2.8 | -45.5 | 2.1 | 13.8 | OK | 17.7 | -12.3 | 27.6 | 261.9 | OK |
| 513.0 | 97.4 | 18.4 | -97.6 | 666.9 | 126.6 | 23.9 | -126.9 | 2.7 | 13.8 | OK | 59.1 | -34.2 | 83.7 | 261.9 | OK |
| 132.9 | 25.2 | -5.2 | -14.6 | 172.8 | 32.8 | -6.7 | -18.9 | 0.7 | 13.8 | OK | 16.3 | -5.1 | 18.5 | 261.9 | OK |
| 122.3 | 23.2 | -7.3 | -24.4 | 158.9 | 30.2 | -9.5 | -31.7 | 0.6 | 13.8 | OK | 20.9 | -8.5 | 25.6 | 261.9 | OK |
| 377.3 | 71.6 | 2.5 | -42.6 | 490.5 | 93.1 | 3.3 | -55.4 | 2.0 | 13.8 | OK | 17.7 | -14.9 | 31.4 | 261.9 | OK |
| 238.9 | 45.4 | 3.5 | -22.1 | 310.6 | 59.0 | 4.5 | -28.7 | 1.2 | 13.8 | OK | 15.6 | -7.7 | 20.5 | 261.9 | OK |
| 554.7 | 105.3 | 14.5 | -52.2 | 721.1 | 136.9 | 18.8 | -67.8 | 2.9 | 13.8 | OK | 51.1 | -18.3 | 60.1 | 261.9 | OK |
| 99.4 | 18.9 | -21.6 | -2.8 | 129.2 | 24.5 | -28.1 | -3.7 | 0.5 | 13.8 | OK | 53.6 | -1.0 | 53.6 | 261.9 | OK |
| 271.2 | 51.5 | 6.3 | 13.5 | 352.6 | 66.9 | 8.1 | 17.6 | 1.4 | 13.8 | OK | 23.1 | 4.7 | 24.5 | 261.9 | OK |
| 321.9 | 61.1 | 15.0 | -62.5 | 418.4 | 79.5 | 19.5 | -81.3 | 1.7 | 13.8 | OK | 45.1 | -21.9 | 58.9 | 261.9 | OK |
| 72.2 | 13.7 | -18.8 | -2.2 | 93.8 | 17.8 | -24.4 | -2.9 | 0.4 | 13.8 | OK | 46.2 | -0.8 | 46.2 | 261.9 | OK |
| 161.4 | 30.6 | 4.1 | -22.0 | 209.8 | 39.8 | 5.4 | -28.6 | 0.8 | 13.8 | OK | 14.7 | -7.7 | 19.9 | 261.9 | OK |
| 50.0 | 9.5 | -7.4 | -7.3 | 65.0 | 12.3 | -9.6 | -9.5 | 0.3 | 13.8 | OK | 18.8 | -2.6 | 19.4 | 261.9 | OK |
| 103.1 | 19.6 | -24.9 | -4.9 | 134.0 | 25.4 | -32.3 | -6.4 | 0.5 | 13.8 | OK | 61.4 | -1.7 | 61.5 | 261.9 | OK |
| 29.5 | 5.6 | -18.5 | -1.7 | 38.3 | 7.3 | -24.0 | -2.2 | 0.2 | 13.8 | OK | 44.1 | -0.6 | 44.2 | 261.9 | OK |
| 142.7 | 27.1 | -11.9 | 0.3 | 185.5 | 35.2 | -15.5 | 0.4 | 0.7 | 13.8 | OK | 32.4 | 0.1 | 32.4 | 261.9 | OK |
| 48.3 | 9.2 | -14.3 | -1.1 | 62.8 | 11.9 | -18.6 | -1.4 | 0.3 | 13.8 | OK | 35.0 | -0.4 | 35.0 | 261.9 | OK |
| 178.2 | 33.8 | -13.6 | -17.9 | 231.7 | 44.0 | -17.7 | -23.3 | 0.9 | 13.8 | OK | 37.4 | -6.3 | 39.0 | 261.9 | OK |
| 195.1 | 37.0 | -19.0 | -8.7 | 253.6 | 48.2 | -24.7 | -11.3 | 1.0 | 13.8 | OK | 50.5 | -3.1 | 50.8 | 261.9 | OK |
| 69.0 | 13.1 | -15.5 | -1.6 | 89.7 | 17.0 | -20.2 | -2.1 | 0.4 | 13.8 | OK | 38.5 | -0.6 | 38.5 | 261.9 | OK |
| 120.5 | 22.9 | -22.9 | -8.9 | 156.7 | 29.8 | -29.7 | -11.6 | 0.6 | 13.8 | OK | 57.3 | -3.1 | 57.5 | 261.9 | OK |
| 163.6 | 31.1 | -22.2 | -2.8 | 212.6 | 40.4 | -28.9 | -3.6 | 0.9 | 13.8 | OK | 57.1 | -1.0 | 57.2 | 261.9 | OK |
| 330.8 | 62.8 | 5.0 | -26.8 | 430.1 | 81.7 | 6.5 | -34.9 | 1.7 | 13.8 | OK | 22.1 | -9.4 | 27.5 | 261.9 | OK |
| 62.7 | 11.9 | -22.4 | -3.2 | 81.5 | 15.5 | -29.1 | -4.1 | 0.3 | 13.8 | OK | 54.2 | -1.1 | 54.3 | 261.9 | OK |
| 122.1 | 23.2 | 5.9 | -19.2 | 158.7 | 30.1 | 7.7 | -25.0 | 0.6 | 13.8 | OK | 17.6 | -6.7 | 21.1 | 261.9 | OK |
| 305.9 | 58.1 | -9.8 | -15.7 | 397.7 | 75.5 | -12.8 | -20.5 | 1.6 | 13.8 | OK | 32.5 | -5.5 | 33.9 | 261.9 | OK |
| 149.6 | 28.4 | -4.2 | -11.3 | 194.5 | 36.9 | -5.5 | -14.7 | 0.8 | 13.8 | OK | 14.5 | -4.0 | 16.1 | 261.9 | OK |
| 1384.8 | 263.0 | 17.0 | -139.8 | 1800.3 | 341.8 | 22.1 | -181.7 | 7.2 | 13.8 | OK | 83.0 | -49.0 | 118.7 | 261.9 | OK |
| 1349.4 | 256.2 | 82.5 | -135.5 | 1754.2 | 333.1 | 107.2 | -176.2 | 7.0 | 13.8 | OK | 235.0 | -47.5 | 248.9 | 261.9 | OK |
| 26.2 | 5.0 | 37.1 | -5.0 | 34.0 | 6.5 | 48.3 | -6.4 | 0.1 | 13.8 | OK | 87.7 | -1.7 | 87.7 | 261.9 | OK |
| 0.0 | -845.1 | 55.6 | -103.8 | 0.0 | -1098.6 | 72.3 | -134.9 | 0.0 | 13.8 | OK | 269.1 | -36.4 | 276.4 | 261.9 | NO |
| 33.6 | 6.4 | 39.0 | 2.8 | 43.7 | 8.3 | 50.7 | 3.6 | 0.2 | 13.8 | OK | 92.3 | 1.0 | 92.3 | 261.9 | OK |
| 24.0 | 4.5 | 24.6 | 76.3 | 31.1 | 5.9 | 32.0 | 99.2 | 0.1 | 13.8 | OK | 58.3 | 26.7 | 74.4 | 261.9 | OK |
| 181.2 | 34.4 | 5.2 | 0.2 | 235.6 | 44.7 | 6.8 | 0.3 | 0.9 | 13.8 | OK | 17.9 | 0.1 | 17.9 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|-------|-------|-------|--------|-------|-------|-----|------|----|------|-------|-------|-------|----|
| 65.9 | 12.5 | 12.8 | 53.3 | 85.6 | 16.3 | 16.6 | 69.3 | 0.3 | 13.8 | OK | 31.9 | 18.7 | 45.5 | 261.9 | OK |
| 229.2 | 43.5 | 9.7 | 7.0 | 298.0 | 56.6 | 12.6 | 9.1 | 1.2 | 13.8 | OK | 29.8 | 2.4 | 30.1 | 261.9 | OK |
| 0.0 | -88.4 | 2.7 | -48.5 | 0.0 | -115.0 | 3.6 | -63.0 | 0.0 | 13.8 | OK | 21.0 | -17.0 | 36.1 | 261.9 | OK |
| 64.4 | 12.2 | 11.5 | -31.0 | 83.7 | 15.9 | 14.9 | -40.3 | 0.3 | 13.8 | OK | 28.9 | -10.9 | 34.5 | 261.9 | OK |
| 40.6 | 7.7 | -17.4 | 18.2 | 52.7 | 10.0 | -22.6 | 23.7 | 0.2 | 13.8 | OK | 41.9 | 6.4 | 43.3 | 261.9 | OK |
| 174.6 | 33.2 | -0.7 | 73.2 | 227.0 | 43.1 | -0.9 | 95.1 | 0.9 | 13.8 | OK | 7.1 | 25.6 | 45.0 | 261.9 | OK |
| 163.7 | 31.1 | 14.1 | 93.9 | 212.8 | 40.4 | 18.3 | 122.0 | 0.9 | 13.8 | OK | 38.1 | 32.9 | 68.5 | 261.9 | OK |
| 283.0 | 53.7 | 4.6 | 79.1 | 368.0 | 69.9 | 6.0 | 102.8 | 1.5 | 13.8 | OK | 19.7 | 27.7 | 51.9 | 261.9 | OK |
| 17.9 | 3.4 | -17.6 | -3.9 | 23.2 | 4.4 | -22.9 | -5.1 | 0.1 | 13.8 | OK | 41.8 | -1.4 | 41.9 | 261.9 | OK |
| 63.2 | 12.0 | -12.8 | 26.4 | 82.2 | 15.6 | -16.6 | 34.3 | 0.3 | 13.8 | OK | 31.9 | 9.2 | 35.7 | 261.9 | OK |
| 0.0 | -174.7 | 25.6 | 112.3 | 0.0 | -227.1 | 33.3 | 145.9 | 0.0 | 13.8 | OK | 88.6 | 39.3 | 111.8 | 261.9 | OK |
| 0.0 | -51.8 | -18.6 | 0.9 | 0.0 | -67.3 | -24.2 | 1.2 | 0.0 | 13.8 | OK | 52.1 | 0.3 | 52.1 | 261.9 | OK |
| 416.7 | 79.1 | 22.8 | 150.4 | 541.7 | 102.9 | 29.7 | 195.5 | 2.2 | 13.8 | OK | 66.4 | 52.7 | 112.9 | 261.9 | OK |
| 0.0 | -13.8 | -12.4 | -3.2 | 0.0 | -18.0 | -16.1 | -4.2 | 0.0 | 13.8 | OK | 31.3 | -1.1 | 31.4 | 261.9 | OK |
| 0.0 | -9.6 | -16.5 | -9.6 | 0.0 | -12.5 | -21.4 | -12.5 | 0.0 | 13.8 | OK | 40.1 | -3.4 | 40.5 | 261.9 | OK |
| 19.4 | 3.7 | -11.8 | -12.1 | 25.2 | 4.8 | -15.4 | -15.7 | 0.1 | 13.8 | OK | 28.3 | -4.2 | 29.2 | 261.9 | OK |
| 45.3 | 8.6 | -6.9 | -6.7 | 58.9 | 11.2 | -9.0 | -8.8 | 0.2 | 13.8 | OK | 17.6 | -2.4 | 18.1 | 261.9 | OK |
| 61.1 | 11.6 | -10.3 | -11.0 | 79.4 | 15.1 | -13.4 | -14.3 | 0.3 | 13.8 | OK | 25.9 | -3.8 | 26.8 | 261.9 | OK |
| 0.0 | -57.0 | -18.1 | -6.1 | 0.0 | -74.1 | -23.6 | -8.0 | 0.0 | 13.8 | OK | 51.8 | -2.2 | 51.9 | 261.9 | OK |
| 32.5 | 6.2 | -14.3 | -6.9 | 42.2 | 8.0 | -18.6 | -9.0 | 0.2 | 13.8 | OK | 34.5 | -2.4 | 34.7 | 261.9 | OK |
| 0.0 | -9.3 | -14.0 | -11.1 | 0.0 | -12.1 | -18.2 | -14.5 | 0.0 | 13.8 | OK | 34.2 | -3.9 | 34.9 | 261.9 | OK |
| 53.4 | 10.1 | -7.9 | -11.9 | 69.5 | 13.2 | -10.3 | -15.5 | 0.3 | 13.8 | OK | 20.1 | -4.2 | 21.4 | 261.9 | OK |
| 0.0 | -22.1 | -16.8 | -4.5 | 0.0 | -28.7 | -21.9 | -5.9 | 0.0 | 13.8 | OK | 43.0 | -1.6 | 43.1 | 261.9 | OK |
| 0.0 | -89.4 | -15.0 | -3.3 | 0.0 | -116.2 | -19.6 | -4.3 | 0.0 | 13.8 | OK | 49.9 | -1.2 | 49.9 | 261.9 | OK |
| 0.0 | -75.4 | -15.1 | -4.6 | 0.0 | -98.0 | -19.6 | -6.0 | 0.0 | 13.8 | OK | 47.7 | -1.6 | 47.8 | 261.9 | OK |
| 32.4 | 6.2 | -13.1 | -9.4 | 42.1 | 8.0 | -17.1 | -12.3 | 0.2 | 13.8 | OK | 31.7 | -3.3 | 32.3 | 261.9 | OK |
| 0.0 | -83.2 | -13.5 | -9.4 | 0.0 | -108.2 | -17.5 | -12.2 | 0.0 | 13.8 | OK | 45.2 | -3.3 | 45.5 | 261.9 | OK |
| 0.0 | -100.3 | -15.8 | -8.5 | 0.0 | -130.4 | -20.6 | -11.1 | 0.0 | 13.8 | OK | 53.5 | -3.0 | 53.8 | 261.9 | OK |
| 0.0 | -28.6 | -11.3 | -11.3 | 0.0 | -37.2 | -14.6 | -14.7 | 0.0 | 13.8 | OK | 31.0 | -4.0 | 31.8 | 261.9 | OK |
| 12.9 | 2.4 | -11.3 | -11.1 | 16.7 | 3.2 | -14.7 | -14.4 | 0.1 | 13.8 | OK | 26.9 | -3.9 | 27.8 | 261.9 | OK |
| 0.0 | -101.0 | -18.2 | -4.1 | 0.0 | -131.3 | -23.6 | -5.3 | 0.0 | 13.8 | OK | 59.1 | -1.4 | 59.2 | 261.9 | OK |
| 41.7 | 7.9 | -8.3 | -9.9 | 54.3 | 10.3 | -10.8 | -12.8 | 0.2 | 13.8 | OK | 20.7 | -3.5 | 21.5 | 261.9 | OK |
| 0.0 | -51.5 | -9.7 | -3.8 | 0.0 | -66.9 | -12.6 | -4.9 | 0.0 | 13.8 | OK | 31.1 | -1.3 | 31.2 | 261.9 | OK |
| 270.7 | 51.4 | 2.7 | 74.0 | 351.9 | 66.8 | 3.5 | 96.2 | 1.4 | 13.8 | OK | 14.7 | 25.9 | 47.3 | 261.9 | OK |
| 0.0 | -53.1 | -17.5 | -3.9 | 0.0 | -69.0 | -22.8 | -5.0 | 0.0 | 13.8 | OK | 49.7 | -1.4 | 49.8 | 261.9 | OK |
| 1.5 | 0.3 | -17.4 | 17.1 | 1.9 | 0.4 | -22.7 | 22.2 | 0.0 | 13.8 | OK | 40.8 | 6.0 | 42.1 | 261.9 | OK |
| 157.5 | 29.9 | 10.8 | 89.3 | 204.7 | 38.9 | 14.1 | 116.1 | 0.8 | 13.8 | OK | 30.3 | 31.3 | 62.1 | 261.9 | OK |
| 165.5 | 31.4 | -2.7 | 68.0 | 215.1 | 40.9 | -3.5 | 88.4 | 0.9 | 13.8 | OK | 11.5 | 23.8 | 42.8 | 261.9 | OK |
| 49.3 | 9.4 | -12.9 | 25.1 | 64.1 | 12.2 | -16.8 | 32.6 | 0.3 | 13.8 | OK | 31.7 | 8.8 | 35.2 | 261.9 | OK |
| 0.0 | -99.9 | 26.7 | 128.7 | 0.0 | -129.8 | 34.7 | 167.3 | 0.0 | 13.8 | OK | 78.8 | 45.1 | 110.9 | 261.9 | OK |
| 367.8 | 69.8 | 19.8 | 146.7 | 478.1 | 90.8 | 25.8 | 190.7 | 1.9 | 13.8 | OK | 57.8 | 51.4 | 106.2 | 261.9 | OK |
| 0.0 | -112.3 | -18.5 | 1.0 | 0.0 | -146.0 | -24.0 | 1.3 | 0.0 | 13.8 | OK | 61.7 | 0.4 | 61.7 | 261.9 | OK |
| 44.7 | 8.5 | 35.8 | 289.0 | 58.1 | 11.0 | 46.6 | 375.7 | 0.2 | 13.8 | OK | 85.1 | 101.2 | 194.9 | 261.9 | OK |
| 150.6 | 28.6 | -0.6 | 55.0 | 195.7 | 37.2 | -0.8 | 71.5 | 0.8 | 13.8 | OK | 6.1 | 19.3 | 33.9 | 261.9 | OK |
| 116.8 | 22.2 | -19.1 | 12.8 | 151.8 | 28.8 | -24.8 | 16.6 | 0.6 | 13.8 | OK | 48.3 | 4.5 | 48.9 | 261.9 | OK |
| 157.4 | 29.9 | -23.8 | 17.2 | 204.6 | 38.9 | -30.9 | 22.4 | 0.8 | 13.8 | OK | 60.6 | 6.0 | 61.5 | 261.9 | OK |
| 164.0 | 31.1 | 0.4 | -13.1 | 213.2 | 40.5 | 0.6 | -17.0 | 0.9 | 13.8 | OK | 6.2 | -4.6 | 10.0 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|-------|-----|------|----|------|-------|------|-------|----|
| 101.8 | 19.3 | -1.9 | -13.0 | 132.4 | 25.1 | -2.5 | -16.9 | 0.5 | 13.8 | OK | 7.7 | -4.6 | 11.0 | 261.9 | OK |
| 163.1 | 31.0 | -13.7 | 16.7 | 212.0 | 40.3 | -17.7 | 21.7 | 0.8 | 13.8 | OK | 37.0 | 5.8 | 38.4 | 261.9 | OK |
| 162.1 | 30.8 | -20.8 | 20.9 | 210.7 | 40.0 | -27.0 | 27.1 | 0.8 | 13.8 | OK | 53.7 | 7.3 | 55.2 | 261.9 | OK |
| 169.9 | 32.3 | -12.5 | 20.9 | 220.9 | 42.0 | -16.2 | 27.1 | 0.9 | 13.8 | OK | 34.5 | 7.3 | 36.8 | 261.9 | OK |
| 1.3 | 0.3 | -8.0 | 5.0 | 1.7 | 0.3 | -10.3 | 6.5 | 0.0 | 13.8 | OK | 18.6 | 1.8 | 18.9 | 261.9 | OK |
| 195.3 | 37.1 | -19.0 | -5.2 | 253.9 | 48.2 | -24.7 | -6.7 | 1.0 | 13.8 | OK | 50.5 | -1.8 | 50.6 | 261.9 | OK |
| 152.9 | 29.0 | -5.1 | 44.1 | 198.8 | 37.7 | -6.7 | 57.3 | 0.8 | 13.8 | OK | 16.8 | 15.4 | 31.6 | 261.9 | OK |
| 61.9 | 11.8 | -17.0 | 5.8 | 80.4 | 15.3 | -22.1 | 7.5 | 0.3 | 13.8 | OK | 41.8 | 2.0 | 41.9 | 261.9 | OK |
| 73.1 | 13.9 | -1.2 | -8.2 | 95.0 | 18.0 | -1.6 | -10.6 | 0.4 | 13.8 | OK | 5.2 | -2.9 | 7.2 | 261.9 | OK |
| 168.7 | 32.0 | -7.1 | -22.6 | 219.3 | 41.7 | -9.2 | -29.4 | 0.9 | 13.8 | OK | 21.8 | -7.9 | 25.8 | 261.9 | OK |
| 187.2 | 35.5 | -3.9 | 30.0 | 243.3 | 46.2 | -5.0 | 39.0 | 1.0 | 13.8 | OK | 14.9 | 10.5 | 23.5 | 261.9 | OK |
| 682.3 | 129.6 | 13.2 | -18.9 | 887.0 | 168.4 | 17.2 | -24.6 | 3.5 | 13.8 | OK | 52.3 | -6.6 | 53.5 | 261.9 | OK |
| 0.0 | -6.5 | -5.9 | -1.0 | 0.0 | -8.5 | -7.7 | -1.3 | 0.0 | 13.8 | OK | 14.9 | -0.4 | 14.9 | 261.9 | OK |
| 82.6 | 15.7 | -6.3 | -3.2 | 107.4 | 20.4 | -8.3 | -4.2 | 0.4 | 13.8 | OK | 17.4 | -1.1 | 17.5 | 261.9 | OK |
| 285.1 | 54.1 | -4.4 | -12.3 | 370.7 | 70.4 | -5.7 | -16.0 | 1.5 | 13.8 | OK | 19.2 | -4.3 | 20.6 | 261.9 | OK |
| 41.3 | 7.8 | -7.4 | 4.9 | 53.7 | 10.2 | -9.6 | 6.3 | 0.2 | 13.8 | OK | 18.6 | 1.7 | 18.8 | 261.9 | OK |
| 66.6 | 12.7 | -11.4 | 2.0 | 86.6 | 16.4 | -14.8 | 2.6 | 0.3 | 13.8 | OK | 28.7 | 0.7 | 28.7 | 261.9 | OK |
| 359.7 | 68.3 | 18.3 | -53.0 | 467.7 | 88.8 | 23.7 | -68.9 | 1.9 | 13.8 | OK | 53.9 | -18.6 | 62.8 | 261.9 | OK |
| 357.1 | 67.8 | -5.2 | -28.2 | 464.2 | 88.1 | -6.8 | -36.7 | 1.9 | 13.8 | OK | 23.4 | -9.9 | 29.0 | 261.9 | OK |
| 9.0 | 1.7 | -11.6 | 3.9 | 11.7 | 2.2 | -15.1 | 5.0 | 0.0 | 13.8 | OK | 27.5 | 1.4 | 27.6 | 261.9 | OK |
| 210.1 | 39.9 | -17.0 | -4.3 | 273.2 | 51.9 | -22.1 | -5.6 | 1.1 | 13.8 | OK | 46.4 | -1.5 | 46.4 | 261.9 | OK |
| 40.9 | 7.8 | -9.6 | 1.4 | 53.2 | 10.1 | -12.4 | 1.8 | 0.2 | 13.8 | OK | 23.6 | 0.5 | 23.6 | 261.9 | OK |
| 459.8 | 87.3 | 13.2 | -49.2 | 597.8 | 113.5 | 17.2 | -64.0 | 2.4 | 13.8 | OK | 45.3 | -17.2 | 54.3 | 261.9 | OK |
| 144.1 | 27.4 | -5.6 | 18.6 | 187.4 | 35.6 | -7.2 | 24.2 | 0.7 | 13.8 | OK | 17.5 | 6.5 | 20.9 | 261.9 | OK |
| 153.1 | 29.1 | -25.5 | 20.9 | 199.1 | 37.8 | -33.1 | 27.2 | 0.8 | 13.8 | OK | 64.3 | 7.3 | 65.6 | 261.9 | OK |
| 813.9 | 154.6 | 17.8 | -57.8 | 1058.1 | 200.9 | 23.1 | -75.1 | 4.2 | 13.8 | OK | 67.1 | -20.2 | 75.7 | 261.9 | OK |
| 137.5 | 26.1 | -19.5 | 0.1 | 178.7 | 33.9 | -25.3 | 0.2 | 0.7 | 13.8 | OK | 49.9 | 0.0 | 49.9 | 261.9 | OK |
| 411.6 | 78.2 | -9.5 | -21.9 | 535.1 | 101.6 | -12.4 | -28.5 | 2.1 | 13.8 | OK | 35.2 | -7.7 | 37.6 | 261.9 | OK |
| 182.0 | 34.6 | -22.4 | 10.4 | 236.6 | 44.9 | -29.1 | 13.5 | 0.9 | 13.8 | OK | 58.1 | 3.6 | 58.4 | 261.9 | OK |
| 167.3 | 31.8 | -22.2 | 19.7 | 217.5 | 41.3 | -28.8 | 25.6 | 0.9 | 13.8 | OK | 57.1 | 6.9 | 58.4 | 261.9 | OK |
| 381.3 | 72.4 | 13.8 | -37.1 | 495.7 | 94.1 | 17.9 | -48.3 | 2.0 | 13.8 | OK | 44.2 | -13.0 | 49.6 | 261.9 | OK |
| 160.2 | 30.4 | -24.4 | 14.2 | 208.2 | 39.5 | -31.7 | 18.5 | 0.8 | 13.8 | OK | 62.0 | 5.0 | 62.6 | 261.9 | OK |
| 470.8 | 89.4 | 19.0 | -59.9 | 612.0 | 116.2 | 24.7 | -77.8 | 2.4 | 13.8 | OK | 59.1 | -21.0 | 69.4 | 261.9 | OK |
| 37.3 | 7.1 | -14.5 | 6.1 | 48.5 | 9.2 | -18.9 | 8.0 | 0.2 | 13.8 | OK | 35.2 | 2.2 | 35.4 | 261.9 | OK |
| 140.8 | 26.7 | -10.1 | 4.9 | 183.1 | 34.8 | -13.1 | 6.4 | 0.7 | 13.8 | OK | 28.0 | 1.7 | 28.2 | 261.9 | OK |
| 0.0 | -19.2 | -7.3 | 3.6 | 0.0 | -25.0 | -9.4 | 4.7 | 0.0 | 13.8 | OK | 20.1 | 1.3 | 20.2 | 261.9 | OK |
| 175.9 | 33.4 | -2.7 | 38.4 | 228.7 | 43.4 | -3.5 | 50.0 | 0.9 | 13.8 | OK | 11.8 | 13.5 | 26.1 | 261.9 | OK |
| 121.6 | 23.1 | -19.9 | 9.4 | 158.1 | 30.0 | -25.8 | 12.3 | 0.6 | 13.8 | OK | 50.2 | 3.3 | 50.5 | 261.9 | OK |
| 246.1 | 46.7 | 14.0 | -37.1 | 319.9 | 60.7 | 18.2 | -48.3 | 1.3 | 13.8 | OK | 40.5 | -13.0 | 46.3 | 261.9 | OK |
| 40.5 | 7.7 | -9.5 | 9.1 | 52.7 | 10.0 | -12.3 | 11.8 | 0.2 | 13.8 | OK | 23.4 | 3.2 | 24.1 | 261.9 | OK |
| 146.0 | 27.7 | 1.6 | 49.7 | 189.7 | 36.0 | 2.1 | 64.6 | 0.8 | 13.8 | OK | 8.3 | 17.4 | 31.3 | 261.9 | OK |
| 124.0 | 23.5 | -14.7 | -0.7 | 161.2 | 30.6 | -19.1 | -0.9 | 0.6 | 13.8 | OK | 38.2 | -0.3 | 38.2 | 261.9 | OK |
| 157.5 | 29.9 | -4.7 | 39.0 | 204.8 | 38.9 | -6.2 | 50.7 | 0.8 | 13.8 | OK | 16.0 | 13.7 | 28.5 | 261.9 | OK |
| 47.8 | 9.1 | -13.5 | 4.1 | 62.1 | 11.8 | -17.5 | 5.3 | 0.2 | 13.8 | OK | 33.1 | 1.4 | 33.1 | 261.9 | OK |
| 191.1 | 36.3 | 0.8 | 46.2 | 248.5 | 47.2 | 1.0 | 60.0 | 1.0 | 13.8 | OK | 7.8 | 16.2 | 29.1 | 261.9 | OK |
| 203.6 | 38.7 | -4.9 | -24.1 | 264.7 | 50.3 | -6.4 | -31.3 | 1.1 | 13.8 | OK | 17.8 | -8.4 | 23.1 | 261.9 | OK |
| 74.2 | 14.1 | -9.1 | 8.8 | 96.4 | 18.3 | -11.8 | 11.4 | 0.4 | 13.8 | OK | 23.6 | 3.1 | 24.2 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|--------|-------|-------|--------|--------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 582.1 | 110.5 | 17.4 | -49.6 | 756.7 | 143.7 | 22.6 | -64.5 | 3.0 | 13.8 | OK | 58.8 | -17.4 | 66.1 | 261.9 | OK |
| 18.4 | 3.5 | -8.3 | 5.0 | 23.9 | 4.5 | -10.7 | 6.5 | 0.1 | 13.8 | OK | 19.9 | 1.7 | 20.1 | 261.9 | OK |
| 237.3 | 45.1 | 20.3 | 70.0 | 308.5 | 58.6 | 26.4 | 91.0 | 1.2 | 13.8 | OK | 54.8 | 24.5 | 69.4 | 261.9 | OK |
| 204.1 | 38.8 | 17.1 | 129.1 | 265.3 | 50.4 | 22.2 | 167.9 | 1.1 | 13.8 | OK | 46.4 | 45.2 | 91.1 | 261.9 | OK |
| 149.3 | 28.4 | -5.3 | 39.4 | 194.1 | 36.9 | -6.9 | 51.3 | 0.8 | 13.8 | OK | 17.0 | 13.8 | 29.4 | 261.9 | OK |
| 76.6 | 14.6 | -0.8 | 62.7 | 99.6 | 18.9 | -1.0 | 81.5 | 0.4 | 13.8 | OK | 4.3 | 22.0 | 38.3 | 261.9 | OK |
| 204.1 | 38.8 | 3.2 | 61.3 | 265.4 | 50.4 | 4.2 | 79.6 | 1.1 | 13.8 | OK | 13.8 | 21.5 | 39.7 | 261.9 | OK |
| 22.7 | 4.3 | -16.1 | -5.1 | 29.6 | 5.6 | -21.0 | -6.7 | 0.1 | 13.8 | OK | 38.4 | -1.8 | 38.6 | 261.9 | OK |
| 0.0 | -17.8 | -19.8 | 6.8 | 0.0 | -23.1 | -25.8 | 8.8 | 0.0 | 13.8 | OK | 49.3 | 2.4 | 49.5 | 261.9 | OK |
| 65.1 | 12.4 | -20.9 | -15.6 | 84.7 | 16.1 | -27.1 | -20.3 | 0.3 | 13.8 | OK | 50.9 | -5.5 | 51.7 | 261.9 | OK |
| 56.4 | 10.7 | -6.6 | 11.8 | 73.3 | 13.9 | -8.6 | 15.3 | 0.3 | 13.8 | OK | 17.2 | 4.1 | 18.7 | 261.9 | OK |
| 44.4 | 8.4 | -19.1 | 2.4 | 57.7 | 11.0 | -24.8 | 3.2 | 0.2 | 13.8 | OK | 46.0 | 0.9 | 46.0 | 261.9 | OK |
| 31.2 | 5.9 | -18.7 | -13.7 | 40.5 | 7.7 | -24.4 | -17.8 | 0.2 | 13.8 | OK | 44.8 | -4.8 | 45.5 | 261.9 | OK |
| 61.7 | 11.7 | -18.0 | -15.2 | 80.2 | 15.2 | -23.4 | -19.7 | 0.3 | 13.8 | OK | 44.1 | -5.3 | 45.0 | 261.9 | OK |
| 19.9 | 3.8 | -17.6 | -3.0 | 25.8 | 4.9 | -22.9 | -3.9 | 0.1 | 13.8 | OK | 41.9 | -1.1 | 41.9 | 261.9 | OK |
| 50.6 | 9.6 | -15.6 | -12.5 | 65.8 | 12.5 | -20.3 | -16.2 | 0.3 | 13.8 | OK | 38.0 | -4.4 | 38.8 | 261.9 | OK |
| 0.0 | -8.3 | -20.9 | -2.1 | 0.0 | -10.8 | -27.2 | -2.7 | 0.0 | 13.8 | OK | 50.2 | -0.7 | 50.2 | 261.9 | OK |
| 0.0 | -39.6 | -17.6 | -10.2 | 0.0 | -51.4 | -22.9 | -13.3 | 0.0 | 13.8 | OK | 47.7 | -3.6 | 48.1 | 261.9 | OK |
| 25.6 | 4.9 | -16.0 | -17.0 | 33.2 | 6.3 | -20.8 | -22.1 | 0.1 | 13.8 | OK | 38.3 | -6.0 | 39.7 | 261.9 | OK |
| 0.0 | -94.3 | -19.8 | -4.0 | 0.0 | -122.6 | -25.7 | -5.2 | 0.0 | 13.8 | OK | 61.7 | -1.4 | 61.8 | 261.9 | OK |
| 0.0 | -72.6 | -17.9 | -2.2 | 0.0 | -94.4 | -23.2 | -2.8 | 0.0 | 13.8 | OK | 53.7 | -0.8 | 53.8 | 261.9 | OK |
| 4.4 | 0.8 | -14.2 | -8.4 | 5.8 | 1.1 | -18.5 | -11.0 | 0.0 | 13.8 | OK | 33.3 | -3.0 | 33.7 | 261.9 | OK |
| 0.0 | -28.8 | -21.8 | -9.4 | 0.0 | -37.5 | -28.3 | -12.2 | 0.0 | 13.8 | OK | 55.7 | -3.3 | 56.0 | 261.9 | OK |
| 0.0 | -8.8 | -16.6 | 9.3 | 0.0 | -11.5 | -21.6 | 12.1 | 0.0 | 13.8 | OK | 40.2 | 3.3 | 40.6 | 261.9 | OK |
| 58.9 | 11.2 | -18.2 | -16.3 | 76.6 | 14.5 | -23.6 | -21.3 | 0.3 | 13.8 | OK | 44.3 | -5.7 | 45.4 | 261.9 | OK |
| 0.0 | -75.5 | -17.1 | 0.3 | 0.0 | -98.1 | -22.3 | 0.3 | 0.0 | 13.8 | OK | 52.5 | 0.1 | 52.5 | 261.9 | OK |
| 0.0 | -26.5 | -7.7 | 18.3 | 0.0 | -34.5 | -10.0 | 23.8 | 0.0 | 13.8 | OK | 22.4 | 6.4 | 25.0 | 261.9 | OK |
| 97.7 | 18.5 | -5.1 | 30.1 | 127.0 | 24.1 | -6.6 | 39.2 | 0.5 | 13.8 | OK | 14.9 | 10.6 | 23.6 | 261.9 | OK |
| 111.9 | 21.3 | 3.2 | 68.2 | 145.5 | 27.6 | 4.1 | 88.7 | 0.6 | 13.8 | OK | 11.0 | 23.9 | 42.8 | 261.9 | OK |
| 200.9 | 38.2 | 16.8 | 125.6 | 261.2 | 49.6 | 21.9 | 163.3 | 1.0 | 13.8 | OK | 45.6 | 44.0 | 88.8 | 261.9 | OK |
| 224.5 | 42.6 | 18.6 | 66.8 | 291.8 | 55.4 | 24.2 | 86.9 | 1.2 | 13.8 | OK | 50.5 | 23.4 | 64.8 | 261.9 | OK |
| 0.0 | -15.8 | -0.8 | 62.4 | 0.0 | -20.5 | -1.0 | 81.2 | 0.0 | 13.8 | OK | 4.5 | 21.9 | 38.1 | 261.9 | OK |
| 116.4 | 22.1 | 28.9 | 310.4 | 151.3 | 28.7 | 37.5 | 403.5 | 0.6 | 13.8 | OK | 71.2 | 108.8 | 201.4 | 261.9 | OK |
| 42.0 | 8.0 | 15.2 | 210.8 | 54.6 | 10.4 | 19.8 | 274.0 | 0.2 | 13.8 | OK | 36.9 | 73.8 | 133.1 | 261.9 | OK |
| 448.5 | 85.2 | 19.0 | 14.7 | 583.0 | 110.7 | 24.7 | 19.1 | 2.3 | 13.8 | OK | 58.5 | 5.2 | 59.2 | 261.9 | OK |
| 1125.7 | 213.8 | 26.0 | 30.3 | 1463.4 | 277.9 | 33.8 | 39.4 | 5.9 | 13.8 | OK | 95.9 | 10.6 | 97.7 | 261.9 | OK |
| 408.3 | 77.5 | -6.5 | -15.6 | 530.7 | 100.8 | -8.4 | -20.3 | 2.1 | 13.8 | OK | 27.9 | -5.5 | 29.5 | 261.9 | OK |
| 798.3 | 151.6 | 5.7 | 50.1 | 1037.8 | 197.1 | 7.4 | 65.1 | 4.2 | 13.8 | OK | 38.2 | 17.5 | 48.8 | 261.9 | OK |
| 0.0 | -129.9 | -16.2 | -26.8 | 0.0 | -168.8 | -21.1 | -34.8 | 0.0 | 13.8 | OK | 59.4 | -9.4 | 61.5 | 261.9 | OK |
| 1327.9 | 252.2 | 72.8 | 30.5 | 1726.3 | 327.8 | 94.6 | 39.7 | 6.9 | 13.8 | OK | 211.6 | 10.7 | 212.4 | 261.9 | OK |
| 377.3 | 71.6 | -2.2 | 37.8 | 490.5 | 93.1 | -2.8 | 49.1 | 2.0 | 13.8 | OK | 16.9 | 13.2 | 28.5 | 261.9 | OK |
| 446.2 | 84.7 | 47.2 | -0.7 | 580.0 | 110.1 | 61.4 | -0.8 | 2.3 | 13.8 | OK | 124.4 | -0.2 | 124.4 | 261.9 | OK |
| 522.3 | 99.2 | 4.5 | -8.5 | 679.0 | 128.9 | 5.9 | -11.1 | 2.7 | 13.8 | OK | 27.0 | -3.0 | 27.4 | 261.9 | OK |
| 209.2 | 39.7 | 12.3 | 9.7 | 272.0 | 51.7 | 16.0 | 12.7 | 1.1 | 13.8 | OK | 35.4 | 3.4 | 35.9 | 261.9 | OK |
| 538.8 | 102.3 | 6.2 | 4.5 | 700.5 | 133.0 | 8.1 | 5.9 | 2.8 | 13.8 | OK | 31.4 | 1.6 | 31.6 | 261.9 | OK |
| 359.4 | 68.2 | 31.4 | 1.1 | 467.2 | 88.7 | 40.8 | 1.4 | 1.9 | 13.8 | OK | 84.7 | 0.4 | 84.7 | 261.9 | OK |
| 317.5 | 60.3 | -3.1 | 19.8 | 412.8 | 78.4 | -4.1 | 25.7 | 1.7 | 13.8 | OK | 17.3 | 6.9 | 21.0 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|--------|-------|--------|--------|--------|-------|--------|-----|------|----|------|-------|-------|-------|----|
| 956.8 | 181.7 | 27.6 | 20.1 | 1243.9 | 236.2 | 35.9 | 26.2 | 5.0 | 13.8 | OK | 94.4 | 7.0 | 95.2 | 261.9 | OK |
| 84.0 | 15.9 | 5.1 | -15.9 | 109.2 | 20.7 | 6.7 | -20.7 | 0.4 | 13.8 | OK | 14.7 | -5.6 | 17.5 | 261.9 | OK |
| 330.9 | 62.8 | -4.7 | 24.1 | 430.1 | 81.7 | -6.2 | 31.4 | 1.7 | 13.8 | OK | 21.4 | 8.4 | 26.0 | 261.9 | OK |
| 365.0 | 69.3 | 10.2 | 8.7 | 474.5 | 90.1 | 13.3 | 11.3 | 1.9 | 13.8 | OK | 35.3 | 3.1 | 35.7 | 261.9 | OK |
| 54.2 | 10.3 | 18.8 | -14.3 | 70.4 | 13.4 | 24.5 | -18.6 | 0.3 | 13.8 | OK | 45.7 | -5.0 | 46.5 | 261.9 | OK |
| 0.0 | -178.1 | -17.8 | -27.7 | 0.0 | -231.5 | -23.1 | -36.0 | 0.0 | 13.8 | OK | 70.9 | -9.7 | 72.9 | 261.9 | OK |
| 137.6 | 26.1 | 12.1 | -9.2 | 178.8 | 34.0 | 15.7 | -12.0 | 0.7 | 13.8 | OK | 32.6 | -3.2 | 33.1 | 261.9 | OK |
| 0.0 | -64.1 | -7.1 | -113.1 | 0.0 | -83.4 | -9.2 | -147.0 | 0.0 | 13.8 | OK | 27.1 | -39.6 | 73.8 | 261.9 | OK |
| 69.6 | 13.2 | -0.4 | -68.5 | 90.4 | 17.2 | -0.5 | -89.1 | 0.4 | 13.8 | OK | 3.2 | -24.0 | 41.7 | 261.9 | OK |
| 274.8 | 52.2 | -29.1 | -50.6 | 357.2 | 67.8 | -37.9 | -65.8 | 1.4 | 13.8 | OK | 76.7 | -17.7 | 82.6 | 261.9 | OK |
| 519.9 | 98.7 | 21.4 | 24.2 | 675.9 | 128.3 | 27.8 | 31.4 | 2.7 | 13.8 | OK | 66.3 | 8.5 | 67.9 | 261.9 | OK |
| 495.1 | 94.0 | -2.8 | 35.6 | 643.7 | 122.2 | -3.6 | 46.3 | 2.6 | 13.8 | OK | 21.9 | 12.5 | 30.8 | 261.9 | OK |
| 145.9 | 27.7 | -4.3 | -51.6 | 189.6 | 36.0 | -5.6 | -67.0 | 0.8 | 13.8 | OK | 14.6 | -18.1 | 34.5 | 261.9 | OK |
| 1014.4 | 192.6 | 17.4 | 1.9 | 1318.7 | 250.4 | 22.6 | 2.5 | 5.3 | 13.8 | OK | 72.3 | 0.7 | 72.3 | 261.9 | OK |
| 0.0 | -118.1 | -7.8 | -31.3 | 0.0 | -153.5 | -10.2 | -40.8 | 0.0 | 13.8 | OK | 37.7 | -11.0 | 42.2 | 261.9 | OK |
| 1219.9 | 231.6 | 25.6 | -87.2 | 1585.9 | 301.1 | 33.3 | -113.4 | 6.3 | 13.8 | OK | 97.9 | -30.6 | 111.3 | 261.9 | OK |
| 390.0 | 74.1 | -1.1 | 7.3 | 507.0 | 96.3 | -1.4 | 9.4 | 2.0 | 13.8 | OK | 14.7 | 2.5 | 15.4 | 261.9 | OK |
| 281.2 | 53.4 | -4.9 | 13.1 | 365.5 | 69.4 | -6.4 | 17.0 | 1.5 | 13.8 | OK | 20.3 | 4.6 | 21.8 | 261.9 | OK |
| 353.9 | 67.2 | -8.9 | 12.5 | 460.0 | 87.4 | -11.6 | 16.2 | 1.8 | 13.8 | OK | 31.9 | 4.4 | 32.8 | 261.9 | OK |
| 433.3 | 82.3 | -0.3 | -11.0 | 563.3 | 107.0 | -0.4 | -14.4 | 2.3 | 13.8 | OK | 14.3 | -3.9 | 15.8 | 261.9 | OK |
| 46.0 | 8.7 | 0.1 | -0.4 | 59.8 | 11.4 | 0.1 | -0.5 | 0.2 | 13.8 | OK | 1.6 | -0.1 | 1.6 | 261.9 | OK |
| 0.0 | -15.7 | 0.3 | -5.5 | 0.0 | -20.4 | 0.4 | -7.2 | 0.0 | 13.8 | OK | 3.3 | -1.9 | 4.7 | 261.9 | OK |
| 364.3 | 69.2 | -7.3 | -12.7 | 473.6 | 89.9 | -9.5 | -16.4 | 1.9 | 13.8 | OK | 28.5 | -4.4 | 29.5 | 261.9 | OK |
| 265.6 | 50.4 | -4.2 | 34.2 | 345.3 | 65.6 | -5.4 | 44.5 | 1.4 | 13.8 | OK | 18.1 | 12.0 | 27.5 | 261.9 | OK |
| 519.6 | 98.7 | 7.0 | -7.5 | 675.4 | 128.3 | 9.1 | -9.8 | 2.7 | 13.8 | OK | 32.6 | -2.6 | 32.9 | 261.9 | OK |
| 1517.4 | 288.1 | 14.2 | -54.9 | 1972.7 | 374.6 | 18.5 | -71.4 | 7.9 | 13.8 | OK | 80.6 | -19.2 | 87.3 | 261.9 | OK |
| 46.4 | 8.8 | -7.4 | 6.5 | 60.3 | 11.5 | -9.7 | 8.5 | 0.2 | 13.8 | OK | 18.9 | 2.3 | 19.3 | 261.9 | OK |
| 43.1 | 8.2 | -5.5 | 4.4 | 56.0 | 10.6 | -7.1 | 5.7 | 0.2 | 13.8 | OK | 14.2 | 1.5 | 14.4 | 261.9 | OK |
| 167.7 | 31.8 | -0.6 | 3.6 | 218.0 | 41.4 | -0.8 | 4.7 | 0.9 | 13.8 | OK | 6.7 | 1.3 | 7.0 | 261.9 | OK |
| 299.7 | 56.9 | -8.2 | 10.5 | 389.6 | 74.0 | -10.6 | 13.6 | 1.6 | 13.8 | OK | 28.5 | 3.7 | 29.2 | 261.9 | OK |
| 258.4 | 49.1 | 1.3 | 6.4 | 336.0 | 63.8 | 1.7 | 8.3 | 1.3 | 13.8 | OK | 11.1 | 2.2 | 11.8 | 261.9 | OK |
| 200.6 | 38.1 | 13.7 | 2.4 | 260.7 | 49.5 | 17.8 | 3.2 | 1.0 | 13.8 | OK | 38.4 | 0.9 | 38.4 | 261.9 | OK |
| 155.7 | 29.6 | 1.9 | 0.9 | 202.5 | 38.4 | 2.4 | 1.2 | 0.8 | 13.8 | OK | 9.2 | 0.3 | 9.2 | 261.9 | OK |
| 120.4 | 22.9 | 3.0 | -2.6 | 156.5 | 29.7 | 3.9 | -3.4 | 0.6 | 13.8 | OK | 10.9 | -0.9 | 11.0 | 261.9 | OK |
| 479.7 | 91.1 | -21.4 | 14.1 | 623.6 | 118.4 | -27.8 | 18.3 | 2.5 | 13.8 | OK | 64.9 | 4.9 | 65.5 | 261.9 | OK |
| 479.1 | 91.0 | -1.1 | -10.5 | 622.8 | 118.3 | -1.5 | -13.6 | 2.5 | 13.8 | OK | 17.6 | -3.7 | 18.7 | 261.9 | OK |
| 20.6 | 3.9 | 0.6 | 4.6 | 26.8 | 5.1 | 0.7 | 5.9 | 0.1 | 13.8 | OK | 2.0 | 1.6 | 3.4 | 261.9 | OK |
| 376.3 | 71.5 | -0.7 | -0.3 | 489.2 | 92.9 | -1.0 | -0.4 | 2.0 | 13.8 | OK | 13.5 | -0.1 | 13.5 | 261.9 | OK |
| 68.7 | 13.0 | 3.1 | -8.2 | 89.3 | 17.0 | 4.1 | -10.6 | 0.4 | 13.8 | OK | 9.5 | -2.9 | 10.7 | 261.9 | OK |
| 274.7 | 52.2 | 3.4 | 2.8 | 357.1 | 67.8 | 4.5 | 3.6 | 1.4 | 13.8 | OK | 16.6 | 1.0 | 16.7 | 261.9 | OK |
| 70.7 | 13.4 | -4.5 | 5.1 | 91.9 | 17.5 | -5.8 | 6.6 | 0.4 | 13.8 | OK | 12.7 | 1.8 | 13.1 | 261.9 | OK |
| 45.8 | 8.7 | -7.5 | 5.3 | 59.5 | 11.3 | -9.7 | 6.9 | 0.2 | 13.8 | OK | 18.9 | 1.9 | 19.2 | 261.9 | OK |
| 71.6 | 13.6 | -5.3 | -6.0 | 93.1 | 17.7 | -6.9 | -7.8 | 0.4 | 13.8 | OK | 14.6 | -2.1 | 15.0 | 261.9 | OK |
| 324.9 | 61.7 | 5.1 | 2.7 | 422.3 | 80.2 | 6.6 | 3.5 | 1.7 | 13.8 | OK | 22.1 | 0.9 | 22.1 | 261.9 | OK |
| 199.6 | 37.9 | 0.2 | 3.4 | 259.5 | 49.3 | 0.2 | 4.4 | 1.0 | 13.8 | OK | 6.6 | 1.2 | 7.0 | 261.9 | OK |
| 138.7 | 26.3 | -4.2 | 6.3 | 180.3 | 34.2 | -5.5 | 8.2 | 0.7 | 13.8 | OK | 14.2 | 2.2 | 14.8 | 261.9 | OK |
| 129.8 | 24.6 | -3.0 | 9.3 | 168.7 | 32.0 | -3.9 | 12.1 | 0.7 | 13.8 | OK | 11.0 | 3.3 | 12.4 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|-------|-----|------|----|------|-------|------|-------|----|
| 445.3 | 84.6 | 12.5 | -33.0 | 579.0 | 109.9 | 16.2 | -43.0 | 2.3 | 13.8 | OK | 43.1 | -11.6 | 47.5 | 261.9 | OK |
| 327.4 | 62.2 | 4.4 | 8.6 | 425.7 | 80.8 | 5.7 | 11.2 | 1.7 | 13.8 | OK | 20.5 | 3.0 | 21.2 | 261.9 | OK |
| 356.5 | 67.7 | 15.4 | 7.2 | 463.4 | 88.0 | 20.1 | 9.4 | 1.9 | 13.8 | OK | 47.2 | 2.5 | 47.4 | 261.9 | OK |
| 383.3 | 72.8 | -22.2 | 13.8 | 498.3 | 94.6 | -28.9 | 17.9 | 2.0 | 13.8 | OK | 63.9 | 4.8 | 64.5 | 261.9 | OK |
| 34.6 | 6.6 | -2.0 | 3.5 | 45.0 | 8.5 | -2.6 | 4.5 | 0.2 | 13.8 | OK | 5.7 | 1.2 | 6.1 | 261.9 | OK |
| 90.4 | 17.2 | -1.1 | 2.8 | 117.5 | 22.3 | -1.5 | 3.7 | 0.5 | 13.8 | OK | 5.5 | 1.0 | 5.7 | 261.9 | OK |
| 322.6 | 61.3 | 3.1 | -10.4 | 419.4 | 79.6 | 4.1 | -13.5 | 1.7 | 13.8 | OK | 17.4 | -3.6 | 18.5 | 261.9 | OK |
| 190.0 | 36.1 | -9.9 | 11.6 | 247.0 | 46.9 | -12.8 | 15.1 | 1.0 | 13.8 | OK | 29.0 | 4.1 | 29.8 | 261.9 | OK |
| 459.7 | 87.3 | -16.0 | 4.6 | 597.7 | 113.5 | -20.8 | 6.0 | 2.4 | 13.8 | OK | 51.9 | 1.6 | 51.9 | 261.9 | OK |
| 150.6 | 28.6 | -11.1 | 9.1 | 195.7 | 37.2 | -14.5 | 11.8 | 0.8 | 13.8 | OK | 30.8 | 3.2 | 31.3 | 261.9 | OK |
| 331.1 | 62.9 | -16.8 | 17.1 | 430.4 | 81.7 | -21.9 | 22.2 | 1.7 | 13.8 | OK | 49.7 | 6.0 | 50.7 | 261.9 | OK |
| 306.3 | 58.2 | -2.2 | 0.4 | 398.2 | 75.6 | -2.9 | 0.6 | 1.6 | 13.8 | OK | 14.8 | 0.2 | 14.8 | 261.9 | OK |
| 161.1 | 30.6 | -4.7 | 5.5 | 209.4 | 39.8 | -6.2 | 7.2 | 0.8 | 13.8 | OK | 16.1 | 1.9 | 16.5 | 261.9 | OK |
| 84.1 | 16.0 | -1.3 | 3.3 | 109.3 | 20.8 | -1.6 | 4.3 | 0.4 | 13.8 | OK | 5.6 | 1.2 | 5.9 | 261.9 | OK |
| 360.2 | 68.4 | -3.3 | 19.1 | 468.2 | 88.9 | -4.3 | 24.8 | 1.9 | 13.8 | OK | 19.0 | 6.7 | 22.3 | 261.9 | OK |
| 52.6 | 10.0 | 1.5 | 3.6 | 68.4 | 13.0 | 2.0 | 4.6 | 0.3 | 13.8 | OK | 5.3 | 1.2 | 5.7 | 261.9 | OK |
| 203.1 | 38.6 | -3.1 | 4.4 | 264.0 | 50.1 | -4.1 | 5.7 | 1.1 | 13.8 | OK | 13.7 | 1.5 | 14.0 | 261.9 | OK |
| 95.2 | 18.1 | -0.5 | 3.0 | 123.7 | 23.5 | -0.6 | 3.9 | 0.5 | 13.8 | OK | 4.1 | 1.0 | 4.5 | 261.9 | OK |
| 596.6 | 113.3 | -22.3 | -23.4 | 775.6 | 147.3 | -29.0 | -30.4 | 3.1 | 13.8 | OK | 70.9 | -8.2 | 72.3 | 261.9 | OK |
| 312.8 | 59.4 | 0.8 | 1.4 | 406.7 | 77.2 | 1.0 | 1.8 | 1.6 | 13.8 | OK | 11.6 | 0.5 | 11.6 | 261.9 | OK |
| 315.1 | 59.8 | 10.6 | -19.4 | 409.6 | 77.8 | 13.7 | -25.2 | 1.6 | 13.8 | OK | 34.5 | -6.8 | 36.5 | 261.9 | OK |
| 776.2 | 147.4 | 5.5 | -23.9 | 1009.0 | 191.6 | 7.1 | -31.1 | 4.0 | 13.8 | OK | 37.1 | -8.4 | 39.8 | 261.9 | OK |
| 62.9 | 11.9 | -0.2 | 1.3 | 81.8 | 15.5 | -0.3 | 1.6 | 0.3 | 13.8 | OK | 2.4 | 0.4 | 2.6 | 261.9 | OK |
| 92.6 | 17.6 | 2.0 | 0.3 | 120.4 | 22.9 | 2.6 | 0.4 | 0.5 | 13.8 | OK | 7.7 | 0.1 | 7.7 | 261.9 | OK |
| 11.7 | 2.2 | -5.9 | 4.0 | 15.2 | 2.9 | -7.7 | 5.3 | 0.1 | 13.8 | OK | 14.2 | 1.4 | 14.4 | 261.9 | OK |
| 49.9 | 9.5 | -3.0 | 3.8 | 64.9 | 12.3 | -3.9 | 5.0 | 0.3 | 13.8 | OK | 8.6 | 1.3 | 8.9 | 261.9 | OK |
| 33.3 | 6.3 | -3.0 | 4.7 | 43.3 | 8.2 | -3.9 | 6.1 | 0.2 | 13.8 | OK | 8.1 | 1.7 | 8.6 | 261.9 | OK |
| 132.8 | 25.2 | -4.4 | 6.7 | 172.7 | 32.8 | -5.8 | 8.7 | 0.7 | 13.8 | OK | 14.5 | 2.4 | 15.1 | 261.9 | OK |
| 18.1 | 3.4 | 0.6 | 0.5 | 23.5 | 4.5 | 0.8 | 0.7 | 0.1 | 13.8 | OK | 2.1 | 0.2 | 2.1 | 261.9 | OK |
| 300.2 | 57.0 | -0.1 | 6.5 | 390.3 | 74.1 | -0.1 | 8.5 | 1.6 | 13.8 | OK | 9.6 | 2.3 | 10.3 | 261.9 | OK |
| 21.6 | 4.1 | -6.6 | -2.6 | 28.1 | 5.3 | -8.6 | -3.3 | 0.1 | 13.8 | OK | 16.1 | -0.9 | 16.2 | 261.9 | OK |
| 240.7 | 45.7 | -4.9 | 10.6 | 312.9 | 59.4 | -6.3 | 13.8 | 1.3 | 13.8 | OK | 18.9 | 3.7 | 20.0 | 261.9 | OK |
| 34.8 | 6.6 | -9.0 | -3.1 | 45.2 | 8.6 | -11.6 | -4.1 | 0.2 | 13.8 | OK | 22.0 | -1.1 | 22.1 | 261.9 | OK |
| 228.4 | 43.4 | -13.4 | -0.6 | 296.9 | 56.4 | -17.5 | -0.7 | 1.2 | 13.8 | OK | 38.6 | -0.2 | 38.6 | 261.9 | OK |
| 0.0 | -4.1 | -6.3 | -0.5 | 0.0 | -5.3 | -8.2 | -0.6 | 0.0 | 13.8 | OK | 15.4 | -0.2 | 15.4 | 261.9 | OK |
| 225.9 | 42.9 | -11.3 | -21.5 | 293.7 | 55.8 | -14.7 | -27.9 | 1.2 | 13.8 | OK | 33.6 | -7.5 | 36.0 | 261.9 | OK |
| 230.5 | 43.8 | 20.6 | 94.5 | 299.7 | 56.9 | 26.8 | 122.8 | 1.2 | 13.8 | OK | 55.4 | 33.1 | 79.7 | 261.9 | OK |
| 84.0 | 15.9 | -11.7 | -3.6 | 109.2 | 20.7 | -15.2 | -4.7 | 0.4 | 13.8 | OK | 30.0 | -1.3 | 30.1 | 261.9 | OK |
| 449.1 | 85.3 | 10.7 | -48.4 | 583.8 | 110.9 | 13.9 | -63.0 | 2.3 | 13.8 | OK | 39.0 | -17.0 | 48.8 | 261.9 | OK |
| 0.0 | -4.7 | -5.6 | -3.2 | 0.0 | -6.1 | -7.3 | -4.2 | 0.0 | 13.8 | OK | 13.9 | -1.1 | 14.0 | 261.9 | OK |
| 57.3 | 10.9 | -6.3 | 1.1 | 74.5 | 14.1 | -8.1 | 1.4 | 0.3 | 13.8 | OK | 16.4 | 0.4 | 16.4 | 261.9 | OK |
| 71.3 | 13.5 | -4.3 | 1.6 | 92.6 | 17.6 | -5.6 | 2.0 | 0.4 | 13.8 | OK | 12.3 | 0.5 | 12.3 | 261.9 | OK |
| 200.6 | 38.1 | 6.9 | 45.5 | 260.8 | 49.5 | 8.9 | 59.1 | 1.0 | 13.8 | OK | 22.3 | 15.9 | 35.5 | 261.9 | OK |
| 386.7 | 73.4 | -1.7 | -14.4 | 502.7 | 95.5 | -2.2 | -18.7 | 2.0 | 13.8 | OK | 16.0 | -5.0 | 18.2 | 261.9 | OK |
| 40.2 | 7.6 | -3.2 | -2.3 | 52.3 | 9.9 | -4.2 | -3.0 | 0.2 | 13.8 | OK | 8.8 | -0.8 | 8.9 | 261.9 | OK |
| 0.0 | -1.6 | -9.1 | 2.0 | 0.0 | -2.1 | -11.8 | 2.6 | 0.0 | 13.8 | OK | 21.5 | 0.7 | 21.5 | 261.9 | OK |
| 545.6 | 103.6 | 6.8 | -24.4 | 709.3 | 134.7 | 8.8 | -31.8 | 2.8 | 13.8 | OK | 33.0 | -8.6 | 36.1 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|-------|-------|--------|--------|-------|-------|--------|-----|------|----|------|-------|-------|-------|----|
| 76.3 | 14.5 | -10.3 | 9.2 | 99.1 | 18.8 | -13.4 | 12.0 | 0.4 | 13.8 | OK | 26.4 | 3.2 | 27.0 | 261.9 | OK |
| 599.9 | 113.9 | 7.4 | -42.4 | 779.9 | 148.1 | 9.6 | -55.1 | 3.1 | 13.8 | OK | 35.9 | -14.8 | 44.2 | 261.9 | OK |
| 0.0 | -13.7 | -6.6 | -0.6 | 0.0 | -17.7 | -8.6 | -0.7 | 0.0 | 13.8 | OK | 17.7 | -0.2 | 17.7 | 261.9 | OK |
| 9.7 | 1.8 | -2.2 | 5.9 | 12.6 | 2.4 | -2.9 | 7.7 | 0.1 | 13.8 | OK | 5.4 | 2.1 | 6.5 | 261.9 | OK |
| 169.8 | 32.2 | -12.0 | 3.0 | 220.7 | 41.9 | -15.6 | 3.9 | 0.9 | 13.8 | OK | 33.3 | 1.1 | 33.4 | 261.9 | OK |
| 220.5 | 41.9 | -14.9 | 12.5 | 286.7 | 54.4 | -19.3 | 16.2 | 1.1 | 13.8 | OK | 41.6 | 4.4 | 42.3 | 261.9 | OK |
| 189.0 | 35.9 | -7.5 | -14.6 | 245.6 | 46.6 | -9.7 | -19.0 | 1.0 | 13.8 | OK | 23.4 | -5.1 | 25.1 | 261.9 | OK |
| 125.3 | 23.8 | -20.6 | -4.5 | 162.9 | 30.9 | -26.7 | -5.8 | 0.7 | 13.8 | OK | 52.0 | -1.6 | 52.1 | 261.9 | OK |
| 462.4 | 87.8 | -20.1 | -28.4 | 601.1 | 114.1 | -26.2 | -36.9 | 2.4 | 13.8 | OK | 61.6 | -9.9 | 63.9 | 261.9 | OK |
| 250.2 | 47.5 | -23.6 | -3.2 | 325.3 | 61.8 | -30.6 | -4.2 | 1.3 | 13.8 | OK | 62.9 | -1.1 | 62.9 | 261.9 | OK |
| 1.5 | 0.3 | -7.9 | -0.7 | 2.0 | 0.4 | -10.3 | -0.9 | 0.0 | 13.8 | OK | 18.6 | -0.2 | 18.6 | 261.9 | OK |
| 770.7 | 146.4 | -7.1 | -57.4 | 1002.0 | 190.3 | -9.2 | -74.6 | 4.0 | 13.8 | OK | 40.7 | -20.1 | 53.6 | 261.9 | OK |
| 3.8 | 0.7 | -2.7 | -0.9 | 4.9 | 0.9 | -3.4 | -1.1 | 0.0 | 13.8 | OK | 6.3 | -0.3 | 6.3 | 261.9 | OK |
| 103.4 | 19.6 | 2.3 | -0.1 | 134.4 | 25.5 | 3.0 | -0.1 | 0.5 | 13.8 | OK | 8.6 | 0.0 | 8.6 | 261.9 | OK |
| 19.4 | 3.7 | -10.3 | -0.3 | 25.2 | 4.8 | -13.4 | -0.4 | 0.1 | 13.8 | OK | 24.8 | -0.1 | 24.8 | 261.9 | OK |
| 0.0 | -25.6 | -5.5 | 1.6 | 0.0 | -33.3 | -7.1 | 2.1 | 0.0 | 13.8 | OK | 17.0 | 0.6 | 17.0 | 261.9 | OK |
| 13.7 | 2.6 | -8.4 | 1.8 | 17.9 | 3.4 | -10.9 | 2.3 | 0.1 | 13.8 | OK | 20.0 | 0.6 | 20.0 | 261.9 | OK |
| 571.0 | 108.4 | -23.2 | 31.3 | 742.2 | 140.9 | -30.1 | 40.7 | 3.0 | 13.8 | OK | 72.0 | 11.0 | 74.4 | 261.9 | OK |
| 915.1 | 173.8 | -8.8 | 9.0 | 1189.6 | 225.9 | -11.5 | 11.7 | 4.8 | 13.8 | OK | 49.3 | 3.2 | 49.6 | 261.9 | OK |
| 2.4 | 0.5 | -6.7 | -3.2 | 3.1 | 0.6 | -8.7 | -4.1 | 0.0 | 13.8 | OK | 15.7 | -1.1 | 15.8 | 261.9 | OK |
| 136.1 | 25.8 | 5.6 | 14.2 | 176.9 | 33.6 | 7.3 | 18.4 | 0.7 | 13.8 | OK | 17.4 | 5.0 | 19.4 | 261.9 | OK |
| 206.3 | 39.2 | 11.0 | 41.0 | 268.2 | 50.9 | 14.3 | 53.3 | 1.1 | 13.8 | OK | 32.1 | 14.4 | 40.6 | 261.9 | OK |
| 0.0 | -13.6 | -3.7 | 1.7 | 0.0 | -17.6 | -4.8 | 2.3 | 0.0 | 13.8 | OK | 10.9 | 0.6 | 11.0 | 261.9 | OK |
| 375.3 | 71.3 | -3.5 | 5.1 | 487.8 | 92.6 | -4.5 | 6.6 | 2.0 | 13.8 | OK | 19.9 | 1.8 | 20.1 | 261.9 | OK |
| 171.5 | 32.6 | 23.0 | 48.2 | 222.9 | 42.3 | 29.8 | 62.6 | 0.9 | 13.8 | OK | 59.0 | 16.9 | 65.9 | 261.9 | OK |
| 337.4 | 64.1 | 6.7 | 16.7 | 438.6 | 83.3 | 8.8 | 21.8 | 1.8 | 13.8 | OK | 26.3 | 5.9 | 28.2 | 261.9 | OK |
| 170.3 | 32.3 | -2.5 | 14.0 | 221.3 | 42.0 | -3.3 | 18.2 | 0.9 | 13.8 | OK | 11.2 | 4.9 | 14.1 | 261.9 | OK |
| 155.0 | 29.4 | 27.4 | 80.2 | 201.5 | 38.3 | 35.6 | 104.2 | 0.8 | 13.8 | OK | 68.9 | 28.1 | 84.4 | 261.9 | OK |
| 5.0 | 0.9 | -9.6 | -0.9 | 6.5 | 1.2 | -12.5 | -1.1 | 0.0 | 13.8 | OK | 22.6 | -0.3 | 22.6 | 261.9 | OK |
| 791.3 | 150.3 | 9.8 | -50.4 | 1028.7 | 195.3 | 12.7 | -65.5 | 4.1 | 13.8 | OK | 47.6 | -17.7 | 56.6 | 261.9 | OK |
| 345.7 | 65.6 | -4.9 | -14.0 | 449.4 | 85.3 | -6.4 | -18.2 | 1.8 | 13.8 | OK | 22.2 | -4.9 | 23.8 | 261.9 | OK |
| 1461.7 | 277.6 | 1.5 | 26.8 | 1900.2 | 360.8 | 1.9 | 34.8 | 7.6 | 13.8 | OK | 49.1 | 9.4 | 51.7 | 261.9 | OK |
| 234.1 | 44.5 | 10.0 | 38.4 | 304.3 | 57.8 | 13.0 | 49.9 | 1.2 | 13.8 | OK | 30.8 | 13.4 | 38.6 | 261.9 | OK |
| 331.4 | 62.9 | 11.1 | 7.7 | 430.9 | 81.8 | 14.4 | 10.0 | 1.7 | 13.8 | OK | 36.3 | 2.7 | 36.6 | 261.9 | OK |
| 118.0 | 22.4 | 20.4 | 52.5 | 153.4 | 29.1 | 26.5 | 68.3 | 0.6 | 13.8 | OK | 51.3 | 18.4 | 60.4 | 261.9 | OK |
| 77.6 | 14.7 | 27.3 | 60.2 | 100.9 | 19.2 | 35.5 | 78.3 | 0.4 | 13.8 | OK | 66.2 | 21.1 | 75.6 | 261.9 | OK |
| 0.0 | -19.7 | -7.6 | -1.5 | 0.0 | -25.6 | -9.9 | -2.0 | 0.0 | 13.8 | OK | 21.1 | -0.5 | 21.1 | 261.9 | OK |
| 295.2 | 56.1 | 13.8 | 37.3 | 383.7 | 72.9 | 17.9 | 48.4 | 1.5 | 13.8 | OK | 41.4 | 13.1 | 47.2 | 261.9 | OK |
| 167.9 | 31.9 | 19.0 | 84.1 | 218.3 | 41.5 | 24.7 | 109.3 | 0.9 | 13.8 | OK | 49.8 | 29.5 | 71.3 | 261.9 | OK |
| 0.0 | -20.9 | -4.8 | -1.2 | 0.0 | -27.1 | -6.2 | -1.5 | 0.0 | 13.8 | OK | 14.6 | -0.4 | 14.7 | 261.9 | OK |
| 0.0 | -15.1 | -4.6 | 2.5 | 0.0 | -19.6 | -6.0 | 3.2 | 0.0 | 13.8 | OK | 13.4 | 0.9 | 13.4 | 261.9 | OK |
| 152.6 | 29.0 | -4.0 | -15.4 | 198.4 | 37.7 | -5.2 | -20.0 | 0.8 | 13.8 | OK | 14.1 | -5.4 | 16.9 | 261.9 | OK |
| 76.4 | 14.5 | 0.2 | 3.3 | 99.3 | 18.9 | 0.2 | 4.3 | 0.4 | 13.8 | OK | 2.8 | 1.2 | 3.5 | 261.9 | OK |
| 218.1 | 41.4 | 0.5 | 5.4 | 283.5 | 53.8 | 0.7 | 7.0 | 1.1 | 13.8 | OK | 8.1 | 1.9 | 8.7 | 261.9 | OK |
| 822.9 | 156.3 | 16.2 | -132.4 | 1069.7 | 203.1 | 21.0 | -172.1 | 4.3 | 13.8 | OK | 63.5 | -46.4 | 102.4 | 261.9 | OK |
| 183.5 | 34.8 | -2.8 | 20.5 | 238.5 | 45.3 | -3.7 | 26.6 | 1.0 | 13.8 | OK | 12.4 | 7.2 | 17.5 | 261.9 | OK |
| 162.0 | 30.8 | -15.3 | -2.5 | 210.6 | 40.0 | -19.9 | -3.2 | 0.8 | 13.8 | OK | 40.8 | -0.9 | 40.8 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|-------|-------|-------|--------|-------|-------|-------|-----|------|----|------|-------|------|-------|----|
| 617.7 | 117.3 | 12.1 | -75.5 | 803.1 | 152.5 | 15.7 | -98.1 | 3.2 | 13.8 | OK | 47.5 | -26.4 | 66.0 | 261.9 | OK |
| 1093.6 | 207.7 | -3.6 | -69.5 | 1421.7 | 270.0 | -4.6 | -90.3 | 5.7 | 13.8 | OK | 42.5 | -24.3 | 59.9 | 261.9 | OK |
| 3.3 | 0.6 | -6.7 | 2.4 | 4.2 | 0.8 | -8.8 | 3.1 | 0.0 | 13.8 | OK | 15.9 | 0.8 | 15.9 | 261.9 | OK |
| 162.5 | 30.9 | 5.5 | 10.7 | 211.3 | 40.1 | 7.2 | 13.9 | 0.8 | 13.8 | OK | 18.0 | 3.7 | 19.2 | 261.9 | OK |
| 936.8 | 177.9 | 27.8 | 29.3 | 1217.9 | 231.3 | 36.1 | 38.1 | 4.9 | 13.8 | OK | 94.2 | 10.3 | 95.9 | 261.9 | OK |
| 333.6 | 63.3 | -5.1 | 3.4 | 433.7 | 82.4 | -6.6 | 4.5 | 1.7 | 13.8 | OK | 22.3 | 1.2 | 22.4 | 261.9 | OK |
| 52.5 | 10.0 | -11.7 | 3.7 | 68.2 | 12.9 | -15.3 | 4.8 | 0.3 | 13.8 | OK | 29.1 | 1.3 | 29.2 | 261.9 | OK |
| 979.9 | 186.1 | 15.8 | -37.4 | 1273.9 | 241.9 | 20.6 | -48.6 | 5.1 | 13.8 | OK | 67.6 | -13.1 | 71.4 | 261.9 | OK |
| 142.4 | 27.0 | -10.1 | -2.6 | 185.1 | 35.2 | -13.1 | -3.3 | 0.7 | 13.8 | OK | 28.1 | -0.9 | 28.1 | 261.9 | OK |
| 151.0 | 28.7 | -8.5 | 2.2 | 196.4 | 37.3 | -11.0 | 2.8 | 0.8 | 13.8 | OK | 24.5 | 0.8 | 24.6 | 261.9 | OK |
| 201.1 | 38.2 | -17.5 | 10.9 | 261.5 | 49.7 | -22.7 | 14.2 | 1.0 | 13.8 | OK | 47.2 | 3.8 | 47.6 | 261.9 | OK |
| 325.8 | 61.9 | -23.9 | 12.7 | 423.5 | 80.4 | -31.1 | 16.5 | 1.7 | 13.8 | OK | 66.1 | 4.4 | 66.6 | 261.9 | OK |
| 104.3 | 19.8 | -10.2 | -3.6 | 135.6 | 25.8 | -13.3 | -4.6 | 0.5 | 13.8 | OK | 27.2 | -1.2 | 27.3 | 261.9 | OK |
| 0.0 | -29.9 | -5.3 | -1.5 | 0.0 | -38.9 | -6.9 | -1.9 | 0.0 | 13.8 | OK | 17.3 | -0.5 | 17.4 | 261.9 | OK |
| 370.0 | 70.3 | 0.4 | -17.0 | 481.1 | 91.3 | 0.5 | -22.1 | 1.9 | 13.8 | OK | 12.4 | -5.9 | 16.1 | 261.9 | OK |
| 441.5 | 83.8 | -13.6 | -25.6 | 573.9 | 109.0 | -17.6 | -33.3 | 2.3 | 13.8 | OK | 45.5 | -9.0 | 48.1 | 261.9 | OK |
| 96.5 | 18.3 | -8.2 | -2.5 | 125.5 | 23.8 | -10.7 | -3.2 | 0.5 | 13.8 | OK | 22.2 | -0.9 | 22.2 | 261.9 | OK |
| 171.5 | 32.6 | -5.2 | 1.9 | 222.9 | 42.3 | -6.7 | 2.5 | 0.9 | 13.8 | OK | 17.5 | 0.7 | 17.5 | 261.9 | OK |

Tabella 2: verifiche del sostegno di prima fase (M>0 fibre tese in intradosso) – Galleria di linea

| Sollecitazioni caratteristiche | | | | Sollecitazioni SLU | | | | Verifica calcestruzzo proiettato | | | Verifica centine | | | | |
|--------------------------------|------------------|------------------|------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|-----------------|----------|--------------------|--------------------|-----------------------|-----------------|----------|
| N _{clsp} | N _{cen} | M _{cen} | T _{cen} | N _{clsp,d} | N _{cen,d} | M _{cen,d} | T _{cen,d} | σ _{c,clsp,d} | f _{cd} | Verifica | σ _{cen,d} | τ _{cen,d} | σ _{id,cen,d} | f _{yd} | Verifica |
| [kN] | [kN] | [kNm] | [kN] | [kN] | [kN] | [kNm] | [kN] | [MPa] | [MPa] | - | [MPa] | [MPa] | [MPa] | [MPa] | - |
| 899.6 | 125.7 | 16.8 | -22.8 | 1169.5 | 163.4 | 21.9 | -29.6 | 5.8 | 13.8 | OK | 116.6 | -13.7 | 119.0 | 261.9 | OK |
| 0.0 | -189.6 | 3.9 | -15.1 | 0.0 | -246.4 | 5.0 | -19.6 | 0.0 | 13.8 | OK | 71.8 | -9.0 | 73.5 | 261.9 | OK |
| 123.7 | 17.3 | -52.3 | -6.0 | 160.9 | 22.5 | -67.9 | -7.8 | 0.8 | 13.8 | OK | 258.0 | -3.6 | 258.1 | 261.9 | OK |
| 884.7 | 123.6 | -24.6 | -117.0 | 1150.2 | 160.7 | -32.0 | -152.1 | 5.8 | 13.8 | OK | 153.8 | -70.2 | 196.1 | 261.9 | OK |
| 0.0 | -2.8 | -1.1 | 1.0 | 0.0 | -3.7 | -1.4 | 1.4 | 0.0 | 13.8 | OK | 5.9 | 0.6 | 6.0 | 261.9 | OK |
| 29.7 | 4.2 | -13.9 | -5.4 | 38.6 | 5.4 | -18.0 | -7.0 | 0.2 | 13.8 | OK | 68.3 | -3.2 | 68.5 | 261.9 | OK |
| 0.0 | -19.2 | -4.8 | -11.9 | 0.0 | -25.0 | -6.3 | -15.5 | 0.0 | 13.8 | OK | 28.8 | -7.2 | 31.4 | 261.9 | OK |
| 0.6 | 0.1 | -2.1 | -6.4 | 0.8 | 0.1 | -2.8 | -8.3 | 0.0 | 13.8 | OK | 10.3 | -3.8 | 12.2 | 261.9 | OK |
| 10.3 | 1.4 | -13.9 | -1.1 | 13.4 | 1.9 | -18.1 | -1.4 | 0.1 | 13.8 | OK | 67.9 | -0.6 | 67.9 | 261.9 | OK |
| 0.0 | -26.9 | -8.0 | -7.5 | 0.0 | -35.0 | -10.4 | -9.7 | 0.0 | 13.8 | OK | 46.3 | -4.5 | 47.0 | 261.9 | OK |
| 7.0 | 1.0 | -5.1 | -3.5 | 9.1 | 1.3 | -6.6 | -4.5 | 0.0 | 13.8 | OK | 24.8 | -2.1 | 25.1 | 261.9 | OK |
| 2.3 | 0.3 | -7.5 | -2.6 | 2.9 | 0.4 | -9.8 | -3.4 | 0.0 | 13.8 | OK | 36.7 | -1.6 | 36.8 | 261.9 | OK |
| 28.5 | 4.0 | -13.0 | -5.9 | 37.0 | 5.2 | -16.9 | -7.6 | 0.2 | 13.8 | OK | 64.1 | -3.5 | 64.4 | 261.9 | OK |
| 32.6 | 4.6 | -1.7 | -2.4 | 42.4 | 5.9 | -2.2 | -3.1 | 0.2 | 13.8 | OK | 9.3 | -1.5 | 9.6 | 261.9 | OK |
| 0.0 | 0.0 | -19.1 | -3.9 | 0.0 | 0.0 | -24.9 | -5.1 | 0.0 | 13.8 | OK | 92.6 | -2.4 | 92.7 | 261.9 | OK |
| 0.0 | -17.2 | -9.5 | -1.9 | 0.0 | -22.4 | -12.4 | -2.4 | 0.0 | 13.8 | OK | 50.9 | -1.1 | 51.0 | 261.9 | OK |
| 19.9 | 2.8 | -3.1 | 4.7 | 25.8 | 3.6 | -4.1 | 6.1 | 0.1 | 13.8 | OK | 15.9 | 2.8 | 16.6 | 261.9 | OK |
| 0.0 | -3.9 | 8.2 | 1.9 | 0.0 | -5.0 | 10.6 | 2.5 | 0.0 | 13.8 | OK | 40.7 | 1.2 | 40.7 | 261.9 | OK |
| 15.8 | 2.2 | -15.8 | 4.3 | 20.6 | 2.9 | -20.6 | 5.6 | 0.1 | 13.8 | OK | 77.4 | 2.6 | 77.5 | 261.9 | OK |
| 21.2 | 3.0 | 8.8 | 2.8 | 27.5 | 3.8 | 11.4 | 3.6 | 0.1 | 13.8 | OK | 43.5 | 1.7 | 43.6 | 261.9 | OK |
| 0.0 | -18.0 | 10.3 | 3.7 | 0.0 | -23.4 | 13.4 | 4.8 | 0.0 | 13.8 | OK | 54.9 | 2.2 | 55.0 | 261.9 | OK |
| 14.3 | 2.0 | -15.7 | 4.8 | 18.5 | 2.6 | -20.4 | 6.2 | 0.1 | 13.8 | OK | 76.5 | 2.9 | 76.7 | 261.9 | OK |
| 14.3 | 2.0 | -10.1 | 3.0 | 18.6 | 2.6 | -13.2 | 3.9 | 0.1 | 13.8 | OK | 49.6 | 1.8 | 49.7 | 261.9 | OK |
| 24.2 | 3.4 | -11.9 | 0.2 | 31.5 | 4.4 | -15.4 | 0.3 | 0.2 | 13.8 | OK | 58.5 | 0.1 | 58.5 | 261.9 | OK |
| 0.0 | -8.4 | 2.1 | 5.8 | 0.0 | -10.9 | 2.8 | 7.5 | 0.0 | 13.8 | OK | 12.7 | 3.5 | 14.1 | 261.9 | OK |
| 16.9 | 2.4 | -16.3 | 0.4 | 21.9 | 3.1 | -21.2 | 0.5 | 0.1 | 13.8 | OK | 79.7 | 0.2 | 79.7 | 261.9 | OK |
| 23.0 | 3.2 | -12.5 | 3.5 | 29.8 | 4.2 | -16.3 | 4.5 | 0.1 | 13.8 | OK | 61.5 | 2.1 | 61.6 | 261.9 | OK |
| 0.9 | 0.1 | 9.5 | 3.3 | 1.2 | 0.2 | 12.4 | 4.3 | 0.0 | 13.8 | OK | 46.3 | 2.0 | 46.4 | 261.9 | OK |
| 37.7 | 5.3 | -1.9 | 6.5 | 48.9 | 6.8 | -2.5 | 8.4 | 0.2 | 13.8 | OK | 10.7 | 3.9 | 12.7 | 261.9 | OK |
| 0.0 | 0.0 | -8.9 | 3.9 | 0.0 | 0.0 | -11.6 | 5.0 | 0.0 | 13.8 | OK | 43.2 | 2.3 | 43.4 | 261.9 | OK |
| 7.5 | 1.0 | -1.7 | 6.2 | 9.8 | 1.4 | -2.3 | 8.1 | 0.0 | 13.8 | OK | 8.7 | 3.7 | 10.9 | 261.9 | OK |
| 46.4 | 6.5 | 12.4 | 1.6 | 60.3 | 8.4 | 16.1 | 2.1 | 0.3 | 13.8 | OK | 61.7 | 1.0 | 61.7 | 261.9 | OK |
| 0.0 | -0.5 | -16.1 | -2.0 | 0.0 | -0.6 | -20.9 | -2.6 | 0.0 | 13.8 | OK | 78.1 | -1.2 | 78.1 | 261.9 | OK |
| 21.8 | 3.1 | -9.0 | 6.9 | 28.4 | 4.0 | -11.7 | 9.0 | 0.1 | 13.8 | OK | 44.4 | 4.1 | 45.0 | 261.9 | OK |
| 25.3 | 3.5 | 1.9 | 5.2 | 32.9 | 4.6 | 2.5 | 6.8 | 0.2 | 13.8 | OK | 10.3 | 3.1 | 11.6 | 261.9 | OK |
| 23.3 | 3.3 | -7.1 | 3.5 | 30.3 | 4.2 | -9.3 | 4.6 | 0.2 | 13.8 | OK | 35.5 | 2.1 | 35.6 | 261.9 | OK |
| 25.3 | 3.5 | -20.5 | 2.6 | 32.9 | 4.6 | -26.7 | 3.4 | 0.2 | 13.8 | OK | 100.4 | 1.6 | 100.4 | 261.9 | OK |
| 31.8 | 4.4 | -16.1 | -3.8 | 41.4 | 5.8 | -20.9 | -5.0 | 0.2 | 13.8 | OK | 79.2 | -2.3 | 79.3 | 261.9 | OK |
| 24.8 | 3.5 | 10.7 | 0.8 | 32.2 | 4.5 | 13.9 | 1.1 | 0.2 | 13.8 | OK | 52.6 | 0.5 | 52.7 | 261.9 | OK |
| 0.0 | -23.6 | 12.3 | -0.7 | 0.0 | -30.7 | 16.0 | -0.9 | 0.0 | 13.8 | OK | 66.4 | -0.4 | 66.4 | 261.9 | OK |
| 9.3 | 1.3 | -21.8 | -1.9 | 12.0 | 1.7 | -28.3 | -2.5 | 0.1 | 13.8 | OK | 106.0 | -1.1 | 106.0 | 261.9 | OK |
| 5.2 | 0.7 | 12.5 | 2.2 | 6.7 | 0.9 | 16.3 | 2.9 | 0.0 | 13.8 | OK | 60.8 | 1.3 | 60.9 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 34.8 | 4.9 | 10.1 | 2.1 | 45.2 | 6.3 | 13.1 | 2.7 | 0.2 | 13.8 | OK | 50.4 | 1.2 | 50.4 | 261.9 | OK |
| 37.3 | 5.2 | 8.0 | 5.1 | 48.5 | 6.8 | 10.4 | 6.6 | 0.2 | 13.8 | OK | 40.1 | 3.0 | 40.4 | 261.9 | OK |
| 7.1 | 1.0 | 4.6 | 5.5 | 9.3 | 1.3 | 6.0 | 7.2 | 0.0 | 13.8 | OK | 22.5 | 3.3 | 23.2 | 261.9 | OK |
| 22.2 | 3.1 | 5.5 | 4.2 | 28.9 | 4.0 | 7.2 | 5.5 | 0.1 | 13.8 | OK | 27.5 | 2.5 | 27.9 | 261.9 | OK |
| 12.4 | 1.7 | -1.6 | 3.7 | 16.1 | 2.2 | -2.1 | 4.8 | 0.1 | 13.8 | OK | 8.5 | 2.2 | 9.3 | 261.9 | OK |
| 0.0 | -0.1 | 13.6 | 0.5 | 0.0 | -0.2 | 17.7 | 0.6 | 0.0 | 13.8 | OK | 65.9 | 0.3 | 65.9 | 261.9 | OK |
| 41.7 | 5.8 | -12.6 | 3.0 | 54.2 | 7.6 | -16.4 | 3.9 | 0.3 | 13.8 | OK | 62.7 | 1.8 | 62.8 | 261.9 | OK |
| 22.6 | 3.2 | 1.2 | 4.6 | 29.4 | 4.1 | 1.6 | 6.0 | 0.1 | 13.8 | OK | 6.9 | 2.8 | 8.4 | 261.9 | OK |
| 1.7 | 0.2 | -11.5 | -0.1 | 2.2 | 0.3 | -14.9 | -0.1 | 0.0 | 13.8 | OK | 55.7 | -0.1 | 55.7 | 261.9 | OK |
| 18.4 | 2.6 | -9.2 | 6.8 | 23.9 | 3.3 | -11.9 | 8.8 | 0.1 | 13.8 | OK | 45.1 | 4.1 | 45.6 | 261.9 | OK |
| 7.1 | 1.0 | 12.1 | -1.0 | 9.2 | 1.3 | 15.7 | -1.3 | 0.0 | 13.8 | OK | 58.7 | -0.6 | 58.7 | 261.9 | OK |
| 24.5 | 3.4 | 9.0 | -2.4 | 31.8 | 4.4 | 11.7 | -3.2 | 0.2 | 13.8 | OK | 44.4 | -1.5 | 44.5 | 261.9 | OK |
| 0.8 | 0.1 | 5.3 | -1.4 | 1.1 | 0.2 | 6.9 | -1.8 | 0.0 | 13.8 | OK | 25.6 | -0.8 | 25.7 | 261.9 | OK |
| 11.6 | 1.6 | 0.0 | -4.4 | 15.0 | 2.1 | 0.0 | -5.7 | 0.1 | 13.8 | OK | 0.5 | -2.6 | 4.6 | 261.9 | OK |
| 0.0 | -1.3 | 2.1 | -5.7 | 0.0 | -1.6 | 2.7 | -7.4 | 0.0 | 13.8 | OK | 10.5 | -3.4 | 12.0 | 261.9 | OK |
| 30.2 | 4.2 | 7.2 | -2.5 | 39.2 | 5.5 | 9.3 | -3.2 | 0.2 | 13.8 | OK | 35.9 | -1.5 | 36.0 | 261.9 | OK |
| 8.7 | 1.2 | 9.3 | -2.3 | 11.3 | 1.6 | 12.1 | -3.0 | 0.1 | 13.8 | OK | 45.3 | -1.4 | 45.4 | 261.9 | OK |
| 4.9 | 0.7 | -10.5 | -9.5 | 6.4 | 0.9 | -13.7 | -12.3 | 0.0 | 13.8 | OK | 51.2 | -5.7 | 52.1 | 261.9 | OK |
| 0.0 | -1.0 | 6.3 | -3.2 | 0.0 | -1.3 | 8.2 | -4.1 | 0.0 | 13.8 | OK | 31.0 | -1.9 | 31.2 | 261.9 | OK |
| 35.8 | 5.0 | 5.0 | -4.6 | 46.5 | 6.5 | 6.5 | -5.9 | 0.2 | 13.8 | OK | 25.6 | -2.7 | 26.0 | 261.9 | OK |
| 0.0 | -11.3 | -10.9 | -12.0 | 0.0 | -14.7 | -14.1 | -15.5 | 0.0 | 13.8 | OK | 55.7 | -7.2 | 57.1 | 261.9 | OK |
| 0.0 | -3.8 | -21.8 | -12.5 | 0.0 | -5.0 | -28.4 | -16.2 | 0.0 | 13.8 | OK | 106.9 | -7.5 | 107.7 | 261.9 | OK |
| 29.0 | 4.1 | -15.7 | -8.0 | 37.7 | 5.3 | -20.4 | -10.4 | 0.2 | 13.8 | OK | 77.2 | -4.8 | 77.6 | 261.9 | OK |
| 26.5 | 3.7 | 10.6 | -1.1 | 34.4 | 4.8 | 13.8 | -1.4 | 0.2 | 13.8 | OK | 52.6 | -0.6 | 52.6 | 261.9 | OK |
| 7.0 | 1.0 | 13.2 | -0.7 | 9.0 | 1.3 | 17.2 | -0.9 | 0.0 | 13.8 | OK | 64.4 | -0.4 | 64.4 | 261.9 | OK |
| 32.4 | 4.5 | 11.6 | -0.2 | 42.1 | 5.9 | 15.1 | -0.3 | 0.2 | 13.8 | OK | 57.5 | -0.1 | 57.5 | 261.9 | OK |
| 0.0 | -20.0 | -4.2 | -8.6 | 0.0 | -25.9 | -5.5 | -11.2 | 0.0 | 13.8 | OK | 26.2 | -5.2 | 27.6 | 261.9 | OK |
| 0.0 | -9.0 | 11.8 | -2.1 | 0.0 | -11.7 | 15.3 | -2.7 | 0.0 | 13.8 | OK | 59.5 | -1.3 | 59.6 | 261.9 | OK |
| 41.5 | 5.8 | -28.5 | -8.8 | 54.0 | 7.5 | -37.1 | -11.4 | 0.3 | 13.8 | OK | 139.7 | -5.3 | 140.0 | 261.9 | OK |
| 52.1 | 7.3 | -23.2 | -9.7 | 67.8 | 9.5 | -30.1 | -12.6 | 0.3 | 13.8 | OK | 114.4 | -5.8 | 114.8 | 261.9 | OK |
| 0.0 | -15.7 | 0.3 | -4.4 | 0.0 | -20.5 | 0.4 | -5.7 | 0.0 | 13.8 | OK | 5.7 | -2.6 | 7.3 | 261.9 | OK |
| 4.7 | 0.7 | -4.0 | -3.9 | 6.1 | 0.8 | -5.2 | -5.1 | 0.0 | 13.8 | OK | 19.6 | -2.3 | 20.0 | 261.9 | OK |
| 7.9 | 1.1 | -2.7 | -3.6 | 10.2 | 1.4 | -3.6 | -4.6 | 0.1 | 13.8 | OK | 13.6 | -2.1 | 14.1 | 261.9 | OK |
| 26.8 | 3.7 | 6.0 | -3.2 | 34.9 | 4.9 | 7.8 | -4.2 | 0.2 | 13.8 | OK | 30.1 | -1.9 | 30.3 | 261.9 | OK |
| 0.0 | -14.5 | 7.4 | -4.0 | 0.0 | -18.8 | 9.7 | -5.2 | 0.0 | 13.8 | OK | 40.1 | -2.4 | 40.3 | 261.9 | OK |
| 18.5 | 2.6 | -0.7 | -3.3 | 24.1 | 3.4 | -0.9 | -4.3 | 0.1 | 13.8 | OK | 4.0 | -2.0 | 5.3 | 261.9 | OK |
| 0.0 | -8.3 | -10.7 | -4.8 | 0.0 | -10.7 | -14.0 | -6.2 | 0.0 | 13.8 | OK | 54.4 | -2.9 | 54.6 | 261.9 | OK |
| 8.4 | 1.2 | -7.4 | -4.4 | 11.0 | 1.5 | -9.7 | -5.7 | 0.1 | 13.8 | OK | 36.4 | -2.6 | 36.7 | 261.9 | OK |
| 39.4 | 5.5 | 10.6 | -2.7 | 51.3 | 7.2 | 13.8 | -3.5 | 0.3 | 13.8 | OK | 52.9 | -1.6 | 53.0 | 261.9 | OK |
| 17.7 | 2.5 | -16.9 | -3.0 | 22.9 | 3.2 | -21.9 | -3.9 | 0.1 | 13.8 | OK | 82.4 | -1.8 | 82.5 | 261.9 | OK |
| 26.0 | 3.6 | -24.0 | -1.0 | 33.8 | 4.7 | -31.2 | -1.3 | 0.2 | 13.8 | OK | 117.2 | -0.6 | 117.2 | 261.9 | OK |
| 39.0 | 5.5 | -15.5 | -6.2 | 50.7 | 7.1 | -20.2 | -8.1 | 0.3 | 13.8 | OK | 76.7 | -3.7 | 77.0 | 261.9 | OK |
| 0.0 | -7.5 | 10.8 | -0.6 | 0.0 | -9.8 | 14.0 | -0.7 | 0.0 | 13.8 | OK | 54.2 | -0.3 | 54.2 | 261.9 | OK |
| 23.8 | 3.3 | -3.0 | -6.1 | 30.9 | 4.3 | -4.0 | -7.9 | 0.2 | 13.8 | OK | 15.7 | -3.7 | 16.9 | 261.9 | OK |
| 20.4 | 2.8 | 2.7 | -3.6 | 26.5 | 3.7 | 3.6 | -4.6 | 0.1 | 13.8 | OK | 14.1 | -2.1 | 14.5 | 261.9 | OK |
| 0.0 | -0.8 | -12.1 | -5.5 | 0.0 | -1.0 | -15.7 | -7.1 | 0.0 | 13.8 | OK | 58.6 | -3.3 | 58.9 | 261.9 | OK |
| 195.7 | 27.3 | -16.2 | 47.4 | 254.3 | 35.5 | -21.1 | 61.6 | 1.3 | 13.8 | OK | 86.2 | 28.4 | 99.3 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|-------|-------|-------|--------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 20.0 | 2.8 | -18.5 | 0.6 | 26.0 | 3.6 | -24.0 | 0.7 | 0.1 | 13.8 | OK | 90.4 | 0.3 | 90.4 | 261.9 | OK |
| 18.8 | 2.6 | -16.4 | 2.4 | 24.4 | 3.4 | -21.3 | 3.1 | 0.1 | 13.8 | OK | 80.1 | 1.4 | 80.1 | 261.9 | OK |
| 165.0 | 23.1 | -28.5 | 20.7 | 214.5 | 30.0 | -37.1 | 26.9 | 1.1 | 13.8 | OK | 144.8 | 12.4 | 146.3 | 261.9 | OK |
| 145.2 | 20.3 | -23.9 | -1.3 | 188.8 | 26.4 | -31.0 | -1.7 | 0.9 | 13.8 | OK | 121.3 | -0.8 | 121.3 | 261.9 | OK |
| 110.7 | 15.5 | -24.8 | -4.8 | 143.9 | 20.1 | -32.2 | -6.2 | 0.7 | 13.8 | OK | 124.5 | -2.9 | 124.6 | 261.9 | OK |
| 104.5 | 14.6 | -33.7 | 2.9 | 135.9 | 19.0 | -43.8 | 3.7 | 0.7 | 13.8 | OK | 167.3 | 1.7 | 167.3 | 261.9 | OK |
| 243.2 | 34.0 | -5.1 | 23.9 | 316.2 | 44.2 | -6.6 | 31.0 | 1.6 | 13.8 | OK | 34.2 | 14.3 | 42.3 | 261.9 | OK |
| 64.1 | 9.0 | -26.1 | 3.5 | 83.3 | 11.6 | -33.9 | 4.5 | 0.4 | 13.8 | OK | 129.0 | 2.1 | 129.0 | 261.9 | OK |
| 328.1 | 45.8 | -4.9 | 12.2 | 426.5 | 59.6 | -6.3 | 15.9 | 2.1 | 13.8 | OK | 36.3 | 7.3 | 38.5 | 261.9 | OK |
| 103.7 | 14.5 | -4.0 | 7.1 | 134.8 | 18.8 | -5.2 | 9.2 | 0.7 | 13.8 | OK | 23.4 | 4.2 | 24.5 | 261.9 | OK |
| 215.4 | 30.1 | -22.5 | 11.1 | 280.0 | 39.1 | -29.3 | 14.4 | 1.4 | 13.8 | OK | 117.6 | 6.7 | 118.2 | 261.9 | OK |
| 0.0 | -7.4 | -14.4 | -4.4 | 0.0 | -9.7 | -18.8 | -5.7 | 0.0 | 13.8 | OK | 72.1 | -2.6 | 72.2 | 261.9 | OK |
| 135.0 | 18.9 | -19.5 | 8.5 | 175.4 | 24.5 | -25.3 | 11.0 | 0.9 | 13.8 | OK | 99.5 | 5.1 | 99.9 | 261.9 | OK |
| 34.9 | 4.9 | -26.7 | -0.6 | 45.4 | 6.3 | -34.7 | -0.8 | 0.2 | 13.8 | OK | 130.7 | -0.4 | 130.7 | 261.9 | OK |
| 0.0 | -72.7 | -4.6 | 24.4 | 0.0 | -94.6 | -6.0 | 31.7 | 0.0 | 13.8 | OK | 42.7 | 14.6 | 49.6 | 261.9 | OK |
| 87.7 | 12.3 | -18.1 | 1.6 | 114.0 | 15.9 | -23.5 | 2.1 | 0.6 | 13.8 | OK | 91.0 | 1.0 | 91.0 | 261.9 | OK |
| 362.3 | 50.6 | -11.9 | 29.6 | 471.0 | 65.8 | -15.5 | 38.5 | 2.4 | 13.8 | OK | 72.0 | 17.8 | 78.3 | 261.9 | OK |
| 0.0 | -189.6 | 3.9 | -15.1 | 0.0 | -246.4 | 5.0 | -19.6 | 0.0 | 13.8 | OK | 71.8 | -9.0 | 73.5 | 261.9 | OK |
| 57.1 | 8.0 | -24.6 | 12.8 | 74.3 | 10.4 | -32.0 | 16.6 | 0.4 | 13.8 | OK | 121.4 | 7.7 | 122.1 | 261.9 | OK |
| 54.9 | 7.7 | -20.9 | 1.6 | 71.4 | 10.0 | -27.2 | 2.0 | 0.4 | 13.8 | OK | 103.4 | 0.9 | 103.4 | 261.9 | OK |
| 0.0 | -20.3 | -10.7 | 9.4 | 0.0 | -26.4 | -13.9 | 12.3 | 0.0 | 13.8 | OK | 57.6 | 5.7 | 58.5 | 261.9 | OK |
| 92.0 | 12.9 | -21.5 | -6.7 | 119.6 | 16.7 | -27.9 | -8.7 | 0.6 | 13.8 | OK | 107.7 | -4.0 | 108.0 | 261.9 | OK |
| 223.9 | 31.3 | -10.6 | 28.0 | 291.0 | 40.7 | -13.7 | 36.5 | 1.5 | 13.8 | OK | 59.9 | 16.8 | 66.6 | 261.9 | OK |
| 11.2 | 1.6 | -4.0 | -0.2 | 14.6 | 2.0 | -5.2 | -0.3 | 0.1 | 13.8 | OK | 20.0 | -0.1 | 20.0 | 261.9 | OK |
| 22.1 | 3.1 | -22.5 | -7.1 | 28.7 | 4.0 | -29.3 | -9.2 | 0.1 | 13.8 | OK | 110.1 | -4.3 | 110.3 | 261.9 | OK |
| 21.7 | 3.0 | -14.0 | -2.9 | 28.2 | 3.9 | -18.2 | -3.8 | 0.1 | 13.8 | OK | 68.8 | -1.7 | 68.8 | 261.9 | OK |
| 0.0 | -43.0 | -7.3 | -13.3 | 0.0 | -55.9 | -9.5 | -17.3 | 0.0 | 13.8 | OK | 47.5 | -8.0 | 49.5 | 261.9 | OK |
| 36.0 | 5.0 | 7.2 | -2.3 | 46.8 | 6.5 | 9.3 | -3.0 | 0.2 | 13.8 | OK | 36.1 | -1.4 | 36.2 | 261.9 | OK |
| 1.9 | 0.3 | 5.2 | -1.6 | 2.4 | 0.3 | 6.7 | -2.0 | 0.0 | 13.8 | OK | 25.0 | -0.9 | 25.1 | 261.9 | OK |
| 0.0 | -40.4 | -2.9 | 0.5 | 0.0 | -52.5 | -3.8 | 0.6 | 0.0 | 13.8 | OK | 25.4 | 0.3 | 25.4 | 261.9 | OK |
| 21.4 | 3.0 | 2.6 | -3.2 | 27.8 | 3.9 | 3.3 | -4.1 | 0.1 | 13.8 | OK | 13.3 | -1.9 | 13.7 | 261.9 | OK |
| 15.2 | 2.1 | 8.2 | 0.0 | 19.8 | 2.8 | 10.6 | 0.0 | 0.1 | 13.8 | OK | 40.2 | 0.0 | 40.2 | 261.9 | OK |
| 0.0 | -15.3 | 9.4 | 0.2 | 0.0 | -19.9 | 12.2 | 0.3 | 0.0 | 13.8 | OK | 49.9 | 0.1 | 49.9 | 261.9 | OK |
| 9.4 | 1.3 | 1.2 | -2.5 | 12.2 | 1.7 | 1.6 | -3.3 | 0.1 | 13.8 | OK | 6.4 | -1.5 | 6.9 | 261.9 | OK |
| 8.0 | 1.1 | 10.1 | -0.7 | 10.4 | 1.5 | 13.2 | -0.9 | 0.1 | 13.8 | OK | 49.3 | -0.4 | 49.3 | 261.9 | OK |
| 42.3 | 5.9 | 9.4 | -1.2 | 55.0 | 7.7 | 12.2 | -1.6 | 0.3 | 13.8 | OK | 47.2 | -0.7 | 47.2 | 261.9 | OK |
| 14.9 | 2.1 | 6.5 | -1.8 | 19.3 | 2.7 | 8.4 | -2.4 | 0.1 | 13.8 | OK | 31.9 | -1.1 | 31.9 | 261.9 | OK |
| 15.7 | 2.2 | 3.6 | -1.9 | 20.4 | 2.8 | 4.7 | -2.5 | 0.1 | 13.8 | OK | 18.3 | -1.1 | 18.4 | 261.9 | OK |
| 26.4 | 3.7 | 1.0 | -2.0 | 34.3 | 4.8 | 1.3 | -2.6 | 0.2 | 13.8 | OK | 5.9 | -1.2 | 6.3 | 261.9 | OK |
| 0.0 | -8.3 | -3.1 | -1.8 | 0.0 | -10.9 | -4.1 | -2.3 | 0.0 | 13.8 | OK | 17.5 | -1.1 | 17.6 | 261.9 | OK |
| 0.0 | -1.0 | -4.3 | -2.6 | 0.0 | -1.3 | -5.6 | -3.4 | 0.0 | 13.8 | OK | 21.1 | -1.6 | 21.3 | 261.9 | OK |
| 7.1 | 1.0 | -1.9 | -4.0 | 9.2 | 1.3 | -2.4 | -5.2 | 0.0 | 13.8 | OK | 9.4 | -2.4 | 10.3 | 261.9 | OK |
| 11.9 | 1.7 | -4.2 | -2.3 | 15.5 | 2.2 | -5.5 | -3.0 | 0.1 | 13.8 | OK | 20.9 | -1.4 | 21.0 | 261.9 | OK |
| 1.9 | 0.3 | 1.2 | -4.3 | 2.5 | 0.3 | 1.6 | -5.6 | 0.0 | 13.8 | OK | 5.9 | -2.6 | 7.4 | 261.9 | OK |
| 0.0 | -2.1 | -3.1 | -1.5 | 0.0 | -2.7 | -4.0 | -2.0 | 0.0 | 13.8 | OK | 15.5 | -0.9 | 15.6 | 261.9 | OK |
| 5.3 | 0.7 | -4.5 | -0.6 | 6.8 | 1.0 | -5.8 | -0.8 | 0.0 | 13.8 | OK | 21.8 | -0.4 | 21.8 | 261.9 | OK |
| 0.0 | -23.8 | -8.6 | -10.8 | 0.0 | -31.0 | -11.2 | -14.0 | 0.0 | 13.8 | OK | 48.4 | -6.5 | 49.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|------|-------|-------|-------|-----|------|----|------|------|------|-------|----|
| 11.6 | 1.6 | -13.5 | -10.1 | 15.1 | 2.1 | -17.6 | -13.2 | 0.1 | 13.8 | OK | 65.9 | -6.1 | 66.8 | 261.9 | OK |
| 0.0 | -3.3 | -6.9 | -7.1 | 0.0 | -4.3 | -8.9 | -9.2 | 0.0 | 13.8 | OK | 34.2 | -4.2 | 35.0 | 261.9 | OK |
| 26.1 | 3.6 | -0.4 | -5.2 | 33.9 | 4.7 | -0.6 | -6.7 | 0.2 | 13.8 | OK | 3.2 | -3.1 | 6.2 | 261.9 | OK |
| 0.0 | -3.3 | -9.5 | -0.9 | 0.0 | -4.3 | -12.4 | -1.2 | 0.0 | 13.8 | OK | 47.0 | -0.6 | 47.0 | 261.9 | OK |
| 34.7 | 4.9 | -14.9 | -12.0 | 45.2 | 6.3 | -19.4 | -15.6 | 0.2 | 13.8 | OK | 73.5 | -7.2 | 74.6 | 261.9 | OK |
| 14.7 | 2.1 | -0.7 | 0.5 | 19.1 | 2.7 | -1.0 | 0.7 | 0.1 | 13.8 | OK | 4.2 | 0.3 | 4.2 | 261.9 | OK |
| 13.8 | 1.9 | 8.6 | -1.9 | 18.0 | 2.5 | 11.2 | -2.4 | 0.1 | 13.8 | OK | 42.4 | -1.1 | 42.4 | 261.9 | OK |
| 29.6 | 4.1 | -1.0 | -3.5 | 38.5 | 5.4 | -1.3 | -4.5 | 0.2 | 13.8 | OK | 5.9 | -2.1 | 6.9 | 261.9 | OK |
| 41.0 | 5.7 | 5.0 | -3.7 | 53.3 | 7.4 | 6.5 | -4.8 | 0.3 | 13.8 | OK | 25.8 | -2.2 | 26.1 | 261.9 | OK |
| 0.0 | -8.6 | 7.3 | -3.4 | 0.0 | -11.2 | 9.5 | -4.5 | 0.0 | 13.8 | OK | 37.8 | -2.1 | 38.0 | 261.9 | OK |
| 19.7 | 2.8 | 6.9 | -3.4 | 25.6 | 3.6 | 8.9 | -4.4 | 0.1 | 13.8 | OK | 34.1 | -2.0 | 34.3 | 261.9 | OK |
| 0.0 | -40.1 | -1.1 | 4.2 | 0.0 | -52.1 | -1.4 | 5.5 | 0.0 | 13.8 | OK | 16.5 | 2.5 | 17.1 | 261.9 | OK |
| 30.4 | 4.2 | 8.7 | 0.5 | 39.5 | 5.5 | 11.3 | 0.7 | 0.2 | 13.8 | OK | 43.4 | 0.3 | 43.4 | 261.9 | OK |
| 14.9 | 2.1 | -0.8 | 1.6 | 19.3 | 2.7 | -1.0 | 2.1 | 0.1 | 13.8 | OK | 4.4 | 1.0 | 4.7 | 261.9 | OK |
| 34.6 | 4.8 | 1.6 | 4.0 | 45.0 | 6.3 | 2.0 | 5.2 | 0.2 | 13.8 | OK | 8.9 | 2.4 | 9.8 | 261.9 | OK |
| 16.1 | 2.2 | -9.9 | 2.1 | 20.9 | 2.9 | -12.9 | 2.8 | 0.1 | 13.8 | OK | 48.8 | 1.3 | 48.8 | 261.9 | OK |
| 0.0 | -19.3 | -4.9 | 0.9 | 0.0 | -25.2 | -6.4 | 1.1 | 0.0 | 13.8 | OK | 29.2 | 0.5 | 29.2 | 261.9 | OK |
| 9.5 | 1.3 | -9.2 | 5.7 | 12.4 | 1.7 | -12.0 | 7.4 | 0.1 | 13.8 | OK | 45.0 | 3.4 | 45.4 | 261.9 | OK |
| 0.0 | -15.7 | -4.1 | 1.7 | 0.0 | -20.5 | -5.4 | 2.2 | 0.0 | 13.8 | OK | 24.4 | 1.0 | 24.4 | 261.9 | OK |
| 36.1 | 5.0 | 7.5 | 3.0 | 47.0 | 6.6 | 9.7 | 3.9 | 0.2 | 13.8 | OK | 37.6 | 1.8 | 37.7 | 261.9 | OK |
| 0.2 | 0.0 | 4.2 | 4.1 | 0.3 | 0.0 | 5.5 | 5.3 | 0.0 | 13.8 | OK | 20.4 | 2.5 | 20.8 | 261.9 | OK |
| 13.8 | 1.9 | -7.9 | -1.4 | 17.9 | 2.5 | -10.2 | -1.8 | 0.1 | 13.8 | OK | 38.7 | -0.8 | 38.8 | 261.9 | OK |
| 0.0 | -2.9 | 8.9 | 2.0 | 0.0 | -3.7 | 11.6 | 2.6 | 0.0 | 13.8 | OK | 43.9 | 1.2 | 44.0 | 261.9 | OK |
| 5.5 | 0.8 | -12.8 | 5.2 | 7.2 | 1.0 | -16.7 | 6.7 | 0.0 | 13.8 | OK | 62.4 | 3.1 | 62.7 | 261.9 | OK |
| 20.1 | 2.8 | -16.8 | 2.5 | 26.2 | 3.7 | -21.8 | 3.3 | 0.1 | 13.8 | OK | 82.2 | 1.5 | 82.2 | 261.9 | OK |
| 11.5 | 1.6 | -2.0 | 2.9 | 15.0 | 2.1 | -2.6 | 3.7 | 0.1 | 13.8 | OK | 10.0 | 1.7 | 10.4 | 261.9 | OK |
| 25.7 | 3.6 | 8.3 | 2.3 | 33.5 | 4.7 | 10.8 | 3.0 | 0.2 | 13.8 | OK | 41.1 | 1.4 | 41.2 | 261.9 | OK |
| 21.3 | 3.0 | 5.5 | 2.2 | 27.7 | 3.9 | 7.1 | 2.8 | 0.1 | 13.8 | OK | 27.3 | 1.3 | 27.4 | 261.9 | OK |
| 0.0 | -26.0 | -7.6 | 4.9 | 0.0 | -33.8 | -9.8 | 6.4 | 0.0 | 13.8 | OK | 43.9 | 2.9 | 44.2 | 261.9 | OK |
| 15.0 | 2.1 | -10.3 | 5.1 | 19.5 | 2.7 | -13.4 | 6.7 | 0.1 | 13.8 | OK | 50.5 | 3.1 | 50.7 | 261.9 | OK |
| 3.3 | 0.5 | -14.6 | 5.3 | 4.3 | 0.6 | -18.9 | 6.9 | 0.0 | 13.8 | OK | 70.7 | 3.2 | 70.9 | 261.9 | OK |
| 15.2 | 2.1 | 6.2 | 2.1 | 19.7 | 2.8 | 8.1 | 2.8 | 0.1 | 13.8 | OK | 30.7 | 1.3 | 30.8 | 261.9 | OK |
| 0.0 | 0.0 | -1.8 | 2.7 | 0.0 | 0.0 | -2.3 | 3.5 | 0.0 | 13.8 | OK | 8.7 | 1.6 | 9.1 | 261.9 | OK |
| 12.4 | 1.7 | -2.6 | 2.7 | 16.1 | 2.3 | -3.3 | 3.6 | 0.1 | 13.8 | OK | 12.9 | 1.7 | 13.3 | 261.9 | OK |
| 10.6 | 1.5 | 10.2 | 0.3 | 13.8 | 1.9 | 13.3 | 0.4 | 0.1 | 13.8 | OK | 50.0 | 0.2 | 50.0 | 261.9 | OK |
| 10.1 | 1.4 | 1.9 | 0.6 | 13.1 | 1.8 | 2.4 | 0.8 | 0.1 | 13.8 | OK | 9.4 | 0.3 | 9.4 | 261.9 | OK |
| 29.4 | 4.1 | 3.9 | 2.6 | 38.2 | 5.3 | 5.1 | 3.3 | 0.2 | 13.8 | OK | 20.1 | 1.5 | 20.3 | 261.9 | OK |
| 14.3 | 2.0 | -14.0 | -1.2 | 18.6 | 2.6 | -18.2 | -1.6 | 0.1 | 13.8 | OK | 68.4 | -0.7 | 68.4 | 261.9 | OK |
| 0.0 | -0.3 | 7.7 | 0.6 | 0.0 | -0.4 | 10.0 | 0.7 | 0.0 | 13.8 | OK | 37.2 | 0.3 | 37.2 | 261.9 | OK |
| 0.0 | -5.7 | -7.4 | 5.5 | 0.0 | -7.4 | -9.6 | 7.2 | 0.0 | 13.8 | OK | 37.5 | 3.3 | 37.9 | 261.9 | OK |
| 16.0 | 2.2 | 3.3 | 2.6 | 20.9 | 2.9 | 4.3 | 3.4 | 0.1 | 13.8 | OK | 16.5 | 1.6 | 16.7 | 261.9 | OK |
| 0.0 | -6.0 | -7.8 | 1.5 | 0.0 | -7.8 | -10.1 | 1.9 | 0.0 | 13.8 | OK | 39.4 | 0.9 | 39.4 | 261.9 | OK |
| 9.9 | 1.4 | -3.7 | 1.5 | 12.9 | 1.8 | -4.9 | 1.9 | 0.1 | 13.8 | OK | 18.5 | 0.9 | 18.5 | 261.9 | OK |
| 18.2 | 2.5 | -4.0 | 2.9 | 23.7 | 3.3 | -5.1 | 3.7 | 0.1 | 13.8 | OK | 19.9 | 1.7 | 20.1 | 261.9 | OK |
| 14.3 | 2.0 | 9.0 | 1.2 | 18.5 | 2.6 | 11.8 | 1.5 | 0.1 | 13.8 | OK | 44.4 | 0.7 | 44.4 | 261.9 | OK |
| 14.4 | 2.0 | -0.8 | 3.4 | 18.7 | 2.6 | -1.0 | 4.4 | 0.1 | 13.8 | OK | 4.3 | 2.0 | 5.5 | 261.9 | OK |
| 7.1 | 1.0 | -4.9 | 4.6 | 9.2 | 1.3 | -6.3 | 6.0 | 0.0 | 13.8 | OK | 23.8 | 2.8 | 24.3 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 25.3 | 3.5 | 2.9 | 4.6 | 32.9 | 4.6 | 3.8 | 5.9 | 0.2 | 13.8 | OK | 15.1 | 2.7 | 15.8 | 261.9 | OK |
| 28.0 | 3.9 | -13.9 | -3.7 | 36.4 | 5.1 | -18.1 | -4.8 | 0.2 | 13.8 | OK | 68.4 | -2.2 | 68.5 | 261.9 | OK |
| 41.6 | 5.8 | -9.3 | -1.0 | 54.1 | 7.6 | -12.1 | -1.3 | 0.3 | 13.8 | OK | 46.7 | -0.6 | 46.7 | 261.9 | OK |
| 0.0 | -18.6 | -12.4 | -7.4 | 0.0 | -24.1 | -16.1 | -9.7 | 0.0 | 13.8 | OK | 65.3 | -4.5 | 65.8 | 261.9 | OK |
| 12.1 | 1.7 | -6.0 | -13.3 | 15.8 | 2.2 | -7.8 | -17.3 | 0.1 | 13.8 | OK | 29.5 | -8.0 | 32.6 | 261.9 | OK |
| 121.0 | 16.9 | -1.0 | -15.9 | 157.3 | 22.0 | -1.3 | -20.7 | 0.8 | 13.8 | OK | 9.6 | -9.5 | 19.1 | 261.9 | OK |
| 40.3 | 5.6 | -11.9 | -5.2 | 52.4 | 7.3 | -15.5 | -6.8 | 0.3 | 13.8 | OK | 59.2 | -3.1 | 59.5 | 261.9 | OK |
| 46.6 | 6.5 | -3.2 | -10.1 | 60.6 | 8.5 | -4.2 | -13.2 | 0.3 | 13.8 | OK | 17.5 | -6.1 | 20.4 | 261.9 | OK |
| 23.4 | 3.3 | -17.5 | -2.9 | 30.4 | 4.2 | -22.7 | -3.7 | 0.2 | 13.8 | OK | 85.5 | -1.7 | 85.6 | 261.9 | OK |
| 77.5 | 10.8 | -12.9 | -4.4 | 100.8 | 14.1 | -16.7 | -5.7 | 0.5 | 13.8 | OK | 65.3 | -2.6 | 65.4 | 261.9 | OK |
| 8.7 | 1.2 | -3.7 | -9.8 | 11.3 | 1.6 | -4.8 | -12.8 | 0.1 | 13.8 | OK | 18.1 | -5.9 | 20.8 | 261.9 | OK |
| 11.7 | 1.6 | -12.9 | 1.7 | 15.2 | 2.1 | -16.8 | 2.2 | 0.1 | 13.8 | OK | 63.2 | 1.0 | 63.2 | 261.9 | OK |
| 32.9 | 4.6 | -7.5 | -2.4 | 42.8 | 6.0 | -9.8 | -3.1 | 0.2 | 13.8 | OK | 37.7 | -1.4 | 37.7 | 261.9 | OK |
| 0.0 | -1.7 | -1.4 | -0.1 | 0.0 | -2.2 | -1.8 | -0.1 | 0.0 | 13.8 | OK | 7.0 | 0.0 | 7.0 | 261.9 | OK |
| 52.8 | 7.4 | -19.8 | -7.4 | 68.6 | 9.6 | -25.7 | -9.6 | 0.3 | 13.8 | OK | 97.8 | -4.4 | 98.1 | 261.9 | OK |
| 0.0 | -56.5 | -4.8 | -12.2 | 0.0 | -73.4 | -6.3 | -15.9 | 0.0 | 13.8 | OK | 39.1 | -7.3 | 41.1 | 261.9 | OK |
| 0.0 | -24.3 | -1.8 | -7.6 | 0.0 | -31.6 | -2.3 | -9.8 | 0.0 | 13.8 | OK | 15.3 | -4.5 | 17.2 | 261.9 | OK |
| 0.0 | -2.4 | -19.8 | -4.6 | 0.0 | -3.1 | -25.7 | -6.0 | 0.0 | 13.8 | OK | 96.4 | -2.8 | 96.5 | 261.9 | OK |
| 0.0 | -76.2 | -9.7 | -10.9 | 0.0 | -99.0 | -12.6 | -14.2 | 0.0 | 13.8 | OK | 68.4 | -6.5 | 69.3 | 261.9 | OK |
| 6.5 | 0.9 | -6.8 | -6.3 | 8.5 | 1.2 | -8.9 | -8.2 | 0.0 | 13.8 | OK | 33.2 | -3.8 | 33.9 | 261.9 | OK |
| 0.0 | -20.9 | -10.1 | -3.9 | 0.0 | -27.2 | -13.1 | -5.0 | 0.0 | 13.8 | OK | 54.8 | -2.3 | 55.0 | 261.9 | OK |
| 0.0 | -24.7 | -16.6 | -8.8 | 0.0 | -32.1 | -21.6 | -11.5 | 0.0 | 13.8 | OK | 87.5 | -5.3 | 88.0 | 261.9 | OK |
| 40.9 | 5.7 | -2.1 | -2.8 | 53.1 | 7.4 | -2.8 | -3.7 | 0.3 | 13.8 | OK | 12.0 | -1.7 | 12.4 | 261.9 | OK |
| 0.0 | -43.3 | -26.5 | -6.3 | 0.0 | -56.2 | -34.5 | -8.2 | 0.0 | 13.8 | OK | 140.5 | -3.8 | 140.6 | 261.9 | OK |
| 0.0 | -7.4 | -14.3 | -5.1 | 0.0 | -9.7 | -18.5 | -6.6 | 0.0 | 13.8 | OK | 71.2 | -3.1 | 71.4 | 261.9 | OK |
| 31.2 | 4.4 | -3.1 | 9.0 | 40.6 | 5.7 | -4.0 | 11.7 | 0.2 | 13.8 | OK | 16.1 | 5.4 | 18.6 | 261.9 | OK |
| 0.0 | -33.2 | 12.3 | 2.5 | 0.0 | -43.1 | 15.9 | 3.3 | 0.0 | 13.8 | OK | 68.7 | 1.5 | 68.7 | 261.9 | OK |
| 35.5 | 5.0 | -23.7 | 5.4 | 46.1 | 6.4 | -30.8 | 7.0 | 0.2 | 13.8 | OK | 116.0 | 3.2 | 116.1 | 261.9 | OK |
| 31.3 | 4.4 | 13.2 | 2.3 | 40.7 | 5.7 | 17.2 | 3.0 | 0.2 | 13.8 | OK | 65.1 | 1.4 | 65.2 | 261.9 | OK |
| 0.0 | -45.7 | 14.2 | 3.1 | 0.0 | -59.4 | 18.4 | 4.0 | 0.0 | 13.8 | OK | 81.4 | 1.9 | 81.4 | 261.9 | OK |
| 1.5 | 0.2 | -19.3 | 7.2 | 1.9 | 0.3 | -25.0 | 9.4 | 0.0 | 13.8 | OK | 93.4 | 4.3 | 93.7 | 261.9 | OK |
| 43.7 | 6.1 | -17.1 | 6.1 | 56.8 | 7.9 | -22.2 | 8.0 | 0.3 | 13.8 | OK | 84.4 | 3.7 | 84.6 | 261.9 | OK |
| 59.5 | 8.3 | -20.5 | 0.4 | 77.4 | 10.8 | -26.6 | 0.6 | 0.4 | 13.8 | OK | 101.6 | 0.3 | 101.6 | 261.9 | OK |
| 0.0 | -40.0 | 5.0 | 7.6 | 0.0 | -52.0 | 6.4 | 9.9 | 0.0 | 13.8 | OK | 35.2 | 4.6 | 36.1 | 261.9 | OK |
| 22.0 | 3.1 | -24.3 | -2.4 | 28.5 | 4.0 | -31.5 | -3.2 | 0.1 | 13.8 | OK | 118.4 | -1.5 | 118.5 | 261.9 | OK |
| 24.9 | 3.5 | -17.7 | 4.5 | 32.4 | 4.5 | -23.0 | 5.9 | 0.2 | 13.8 | OK | 86.8 | 2.7 | 86.9 | 261.9 | OK |
| 0.0 | -29.7 | 12.8 | 3.0 | 0.0 | -38.6 | 16.6 | 3.9 | 0.0 | 13.8 | OK | 70.1 | 1.8 | 70.2 | 261.9 | OK |
| 54.3 | 7.6 | -0.3 | 10.5 | 70.6 | 9.9 | -0.4 | 13.6 | 0.4 | 13.8 | OK | 3.5 | 6.3 | 11.4 | 261.9 | OK |
| 0.0 | -16.8 | -11.7 | 8.1 | 0.0 | -21.8 | -15.2 | 10.6 | 0.0 | 13.8 | OK | 61.4 | 4.9 | 61.9 | 261.9 | OK |
| 0.0 | -24.9 | 0.3 | 8.0 | 0.0 | -32.3 | 0.4 | 10.3 | 0.0 | 13.8 | OK | 8.6 | 4.8 | 11.9 | 261.9 | OK |
| 64.8 | 9.0 | 15.6 | 1.1 | 84.2 | 11.8 | 20.3 | 1.4 | 0.4 | 13.8 | OK | 78.1 | 0.6 | 78.1 | 261.9 | OK |
| 0.0 | -4.5 | -23.9 | -2.1 | 0.0 | -5.9 | -31.1 | -2.8 | 0.0 | 13.8 | OK | 117.1 | -1.3 | 117.1 | 261.9 | OK |
| 40.2 | 5.6 | -11.8 | 10.3 | 52.3 | 7.3 | -15.3 | 13.4 | 0.3 | 13.8 | OK | 58.7 | 6.2 | 59.7 | 261.9 | OK |
| 36.4 | 5.1 | 4.8 | 6.9 | 47.3 | 6.6 | 6.2 | 9.0 | 0.2 | 13.8 | OK | 24.5 | 4.1 | 25.5 | 261.9 | OK |
| 47.9 | 6.7 | -10.8 | 8.0 | 62.3 | 8.7 | -14.0 | 10.3 | 0.3 | 13.8 | OK | 54.1 | 4.8 | 54.8 | 261.9 | OK |
| 24.5 | 3.4 | -27.7 | 4.4 | 31.9 | 4.5 | -36.0 | 5.7 | 0.2 | 13.8 | OK | 135.1 | 2.6 | 135.2 | 261.9 | OK |
| 53.4 | 7.5 | -24.0 | -5.2 | 69.5 | 9.7 | -31.3 | -6.8 | 0.3 | 13.8 | OK | 118.6 | -3.1 | 118.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|-------|-------|------|-------|-------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 36.4 | 5.1 | 14.4 | 0.5 | 47.3 | 6.6 | 18.7 | 0.6 | 0.2 | 13.8 | OK | 71.1 | 0.3 | 71.1 | 261.9 | OK |
| 0.0 | -51.4 | 15.7 | -1.1 | 0.0 | -66.8 | 20.4 | -1.4 | 0.0 | 13.8 | OK | 90.2 | -0.6 | 90.3 | 261.9 | OK |
| 2.1 | 0.3 | -30.3 | -2.9 | 2.8 | 0.4 | -39.4 | -3.7 | 0.0 | 13.8 | OK | 147.0 | -1.7 | 147.0 | 261.9 | OK |
| 0.0 | -14.8 | 15.6 | 2.1 | 0.0 | -19.2 | 20.2 | 2.8 | 0.0 | 13.8 | OK | 79.5 | 1.3 | 79.5 | 261.9 | OK |
| 48.1 | 6.7 | 13.9 | 2.0 | 62.6 | 8.7 | 18.1 | 2.6 | 0.3 | 13.8 | OK | 69.4 | 1.2 | 69.4 | 261.9 | OK |
| 50.9 | 7.1 | 12.0 | 5.5 | 66.2 | 9.2 | 15.6 | 7.1 | 0.3 | 13.8 | OK | 60.3 | 3.3 | 60.5 | 261.9 | OK |
| 0.0 | -19.3 | 8.2 | 6.8 | 0.0 | -25.0 | 10.7 | 8.8 | 0.0 | 13.8 | OK | 45.3 | 4.1 | 45.9 | 261.9 | OK |
| 27.2 | 3.8 | 9.7 | 5.6 | 35.4 | 4.9 | 12.6 | 7.3 | 0.2 | 13.8 | OK | 48.0 | 3.4 | 48.4 | 261.9 | OK |
| 0.0 | -9.6 | 0.0 | 5.8 | 0.0 | -12.5 | -0.1 | 7.6 | 0.0 | 13.8 | OK | 2.9 | 3.5 | 6.7 | 261.9 | OK |
| 0.0 | -24.4 | 16.2 | -0.2 | 0.0 | -31.7 | 21.1 | -0.2 | 0.0 | 13.8 | OK | 85.5 | -0.1 | 85.5 | 261.9 | OK |
| 70.9 | 9.9 | -17.9 | 7.5 | 92.2 | 12.9 | -23.2 | 9.7 | 0.5 | 13.8 | OK | 89.3 | 4.5 | 89.6 | 261.9 | OK |
| 35.0 | 4.9 | 4.2 | 7.3 | 45.5 | 6.4 | 5.5 | 9.5 | 0.2 | 13.8 | OK | 21.9 | 4.4 | 23.2 | 261.9 | OK |
| 33.1 | 4.6 | -18.8 | -2.6 | 43.0 | 6.0 | -24.5 | -3.4 | 0.2 | 13.8 | OK | 92.6 | -1.6 | 92.6 | 261.9 | OK |
| 2.4 | 0.3 | -9.1 | 10.3 | 3.1 | 0.4 | -11.9 | 13.4 | 0.0 | 13.8 | OK | 44.3 | 6.2 | 45.6 | 261.9 | OK |
| 0.0 | -16.6 | 13.8 | -1.8 | 0.0 | -21.5 | 18.0 | -2.4 | 0.0 | 13.8 | OK | 71.7 | -1.1 | 71.7 | 261.9 | OK |
| 32.4 | 4.5 | 11.7 | -3.5 | 42.1 | 5.9 | 15.2 | -4.6 | 0.2 | 13.8 | OK | 57.8 | -2.1 | 58.0 | 261.9 | OK |
| 0.0 | -17.3 | 5.9 | -3.4 | 0.0 | -22.4 | 7.7 | -4.4 | 0.0 | 13.8 | OK | 33.4 | -2.0 | 33.6 | 261.9 | OK |
| 35.5 | 5.0 | -2.1 | -7.5 | 46.2 | 6.5 | -2.7 | -9.7 | 0.2 | 13.8 | OK | 11.5 | -4.5 | 13.8 | 261.9 | OK |
| 0.0 | -10.4 | 0.1 | -7.2 | 0.0 | -13.5 | 0.1 | -9.3 | 0.0 | 13.8 | OK | 3.2 | -4.3 | 8.1 | 261.9 | OK |
| 41.8 | 5.8 | 8.7 | -4.4 | 54.4 | 7.6 | 11.4 | -5.7 | 0.3 | 13.8 | OK | 44.0 | -2.6 | 44.2 | 261.9 | OK |
| 0.0 | -12.3 | 10.8 | -4.4 | 0.0 | -16.0 | 14.0 | -5.7 | 0.0 | 13.8 | OK | 55.7 | -2.6 | 55.8 | 261.9 | OK |
| 35.9 | 5.0 | -14.6 | -8.1 | 46.7 | 6.5 | -19.0 | -10.5 | 0.2 | 13.8 | OK | 72.3 | -4.9 | 72.8 | 261.9 | OK |
| 0.0 | -24.1 | 5.8 | -4.7 | 0.0 | -31.3 | 7.6 | -6.1 | 0.0 | 13.8 | OK | 35.1 | -2.8 | 35.4 | 261.9 | OK |
| 55.1 | 7.7 | 5.7 | -6.7 | 71.6 | 10.0 | 7.4 | -8.7 | 0.4 | 13.8 | OK | 29.7 | -4.0 | 30.5 | 261.9 | OK |
| 0.0 | -3.3 | -14.1 | -7.0 | 0.0 | -4.3 | -18.4 | -9.2 | 0.0 | 13.8 | OK | 69.5 | -4.2 | 69.9 | 261.9 | OK |
| 0.0 | -19.8 | -20.4 | -3.5 | 0.0 | -25.8 | -26.5 | -4.5 | 0.0 | 13.8 | OK | 104.5 | -2.1 | 104.5 | 261.9 | OK |
| 28.1 | 3.9 | -18.4 | -2.2 | 36.6 | 5.1 | -24.0 | -2.9 | 0.2 | 13.8 | OK | 90.4 | -1.3 | 90.5 | 261.9 | OK |
| 38.6 | 5.4 | 13.9 | -1.5 | 50.2 | 7.0 | 18.0 | -1.9 | 0.3 | 13.8 | OK | 68.8 | -0.9 | 68.8 | 261.9 | OK |
| 0.0 | -13.2 | 15.7 | -1.5 | 0.0 | -17.2 | 20.4 | -1.9 | 0.0 | 13.8 | OK | 79.7 | -0.9 | 79.7 | 261.9 | OK |
| 39.8 | 5.6 | 14.4 | -0.8 | 51.8 | 7.2 | 18.7 | -1.1 | 0.3 | 13.8 | OK | 71.4 | -0.5 | 71.4 | 261.9 | OK |
| 0.0 | -24.3 | -7.4 | -6.7 | 0.0 | -31.6 | -9.7 | -8.7 | 0.0 | 13.8 | OK | 42.9 | -4.0 | 43.4 | 261.9 | OK |
| 0.0 | -23.7 | 14.6 | -2.4 | 0.0 | -30.8 | 19.0 | -3.1 | 0.0 | 13.8 | OK | 77.6 | -1.4 | 77.6 | 261.9 | OK |
| 3.5 | 0.5 | -22.5 | -0.3 | 4.5 | 0.6 | -29.3 | -0.3 | 0.0 | 13.8 | OK | 109.3 | -0.2 | 109.3 | 261.9 | OK |
| 47.8 | 6.7 | -20.4 | -2.5 | 62.2 | 8.7 | -26.6 | -3.3 | 0.3 | 13.8 | OK | 100.8 | -1.5 | 100.9 | 261.9 | OK |
| 0.0 | -32.9 | -2.0 | -6.2 | 0.0 | -42.7 | -2.6 | -8.1 | 0.0 | 13.8 | OK | 18.8 | -3.7 | 19.9 | 261.9 | OK |
| 29.3 | 4.1 | -7.6 | -7.2 | 38.1 | 5.3 | -9.9 | -9.3 | 0.2 | 13.8 | OK | 37.9 | -4.3 | 38.6 | 261.9 | OK |
| 2.6 | 0.4 | -6.4 | -4.6 | 3.4 | 0.5 | -8.3 | -6.0 | 0.0 | 13.8 | OK | 31.1 | -2.8 | 31.5 | 261.9 | OK |
| 38.9 | 5.4 | 8.4 | -4.2 | 50.5 | 7.1 | 10.9 | -5.5 | 0.3 | 13.8 | OK | 42.1 | -2.5 | 42.3 | 261.9 | OK |
| 0.0 | -36.8 | 8.9 | -4.7 | 0.0 | -47.9 | 11.6 | -6.1 | 0.0 | 13.8 | OK | 53.5 | -2.8 | 53.7 | 261.9 | OK |
| 40.1 | 5.6 | -1.7 | -6.4 | 52.1 | 7.3 | -2.2 | -8.4 | 0.3 | 13.8 | OK | 9.6 | -3.9 | 11.7 | 261.9 | OK |
| 0.0 | -18.5 | -14.8 | -4.1 | 0.0 | -24.1 | -19.2 | -5.4 | 0.0 | 13.8 | OK | 76.7 | -2.5 | 76.8 | 261.9 | OK |
| 46.8 | 6.5 | -13.0 | -5.3 | 60.9 | 8.5 | -16.9 | -6.9 | 0.3 | 13.8 | OK | 64.7 | -3.2 | 64.9 | 261.9 | OK |
| 51.2 | 7.2 | 13.2 | -3.5 | 66.5 | 9.3 | 17.2 | -4.5 | 0.3 | 13.8 | OK | 65.9 | -2.1 | 66.0 | 261.9 | OK |
| 50.3 | 7.0 | -18.1 | 0.2 | 65.4 | 9.1 | -23.5 | 0.3 | 0.3 | 13.8 | OK | 89.6 | 0.1 | 89.6 | 261.9 | OK |
| 0.0 | -5.1 | -20.8 | 3.3 | 0.0 | -6.7 | -27.1 | 4.4 | 0.0 | 13.8 | OK | 102.3 | 2.0 | 102.4 | 261.9 | OK |
| 77.1 | 10.8 | -18.4 | -4.4 | 100.2 | 14.0 | -23.9 | -5.7 | 0.5 | 13.8 | OK | 91.9 | -2.6 | 92.0 | 261.9 | OK |
| 0.0 | -24.0 | 13.4 | -1.1 | 0.0 | -31.2 | 17.4 | -1.4 | 0.0 | 13.8 | OK | 71.7 | -0.7 | 71.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|-------|-------|------|-------|-------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 60.5 | 8.5 | -6.5 | -8.0 | 78.7 | 11.0 | -8.5 | -10.4 | 0.4 | 13.8 | OK | 34.0 | -4.8 | 35.0 | 261.9 | OK |
| 28.9 | 4.0 | 3.8 | -6.2 | 37.6 | 5.3 | 4.9 | -8.1 | 0.2 | 13.8 | OK | 19.4 | -3.7 | 20.4 | 261.9 | OK |
| 27.9 | 3.9 | -16.7 | -4.0 | 36.2 | 5.1 | -21.7 | -5.1 | 0.2 | 13.8 | OK | 82.1 | -2.4 | 82.2 | 261.9 | OK |
| 29.1 | 4.1 | -4.0 | 10.9 | 37.9 | 5.3 | -5.2 | 14.2 | 0.2 | 13.8 | OK | 20.5 | 6.6 | 23.4 | 261.9 | OK |
| 44.5 | 6.2 | -15.8 | 4.5 | 57.9 | 8.1 | -20.5 | 5.8 | 0.3 | 13.8 | OK | 78.2 | 2.7 | 78.3 | 261.9 | OK |
| 30.0 | 4.2 | -9.7 | 6.1 | 39.0 | 5.4 | -12.6 | 7.9 | 0.2 | 13.8 | OK | 48.2 | 3.6 | 48.6 | 261.9 | OK |
| 12.9 | 1.8 | -13.8 | 10.3 | 16.7 | 2.3 | -17.9 | 13.4 | 0.1 | 13.8 | OK | 67.1 | 6.2 | 68.0 | 261.9 | OK |
| 77.7 | 10.9 | -17.4 | 6.9 | 101.0 | 14.1 | -22.6 | 9.0 | 0.5 | 13.8 | OK | 87.2 | 4.2 | 87.5 | 261.9 | OK |
| 48.1 | 6.7 | -18.2 | 1.3 | 62.6 | 8.7 | -23.7 | 1.7 | 0.3 | 13.8 | OK | 90.3 | 0.8 | 90.3 | 261.9 | OK |
| 17.4 | 2.4 | -21.3 | 5.6 | 22.6 | 3.2 | -27.7 | 7.2 | 0.1 | 13.8 | OK | 104.0 | 3.3 | 104.2 | 261.9 | OK |
| 88.2 | 12.3 | -4.6 | 24.6 | 114.6 | 16.0 | -6.0 | 32.0 | 0.6 | 13.8 | OK | 25.9 | 14.8 | 36.4 | 261.9 | OK |
| 25.7 | 3.6 | -18.6 | 6.0 | 33.4 | 4.7 | -24.2 | 7.8 | 0.2 | 13.8 | OK | 91.3 | 3.6 | 91.5 | 261.9 | OK |
| 49.9 | 7.0 | -4.9 | 20.6 | 64.9 | 9.1 | -6.3 | 26.8 | 0.3 | 13.8 | OK | 25.6 | 12.4 | 33.3 | 261.9 | OK |
| 64.1 | 9.0 | -2.2 | 6.4 | 83.4 | 11.6 | -2.9 | 8.3 | 0.4 | 13.8 | OK | 13.3 | 3.9 | 14.9 | 261.9 | OK |
| 96.2 | 13.4 | -17.0 | 7.8 | 125.0 | 17.5 | -22.1 | 10.1 | 0.6 | 13.8 | OK | 86.1 | 4.7 | 86.5 | 261.9 | OK |
| 15.5 | 2.2 | -13.9 | 2.8 | 20.2 | 2.8 | -18.1 | 3.6 | 0.1 | 13.8 | OK | 67.9 | 1.7 | 67.9 | 261.9 | OK |
| 0.0 | -28.6 | -9.4 | 9.2 | 0.0 | -37.1 | -12.2 | 11.9 | 0.0 | 13.8 | OK | 53.5 | 5.5 | 54.4 | 261.9 | OK |
| 0.0 | -8.6 | -19.5 | 5.7 | 0.0 | -11.2 | -25.3 | 7.3 | 0.0 | 13.8 | OK | 96.7 | 3.4 | 96.9 | 261.9 | OK |
| 0.0 | -28.8 | -4.7 | 10.5 | 0.0 | -37.5 | -6.1 | 13.7 | 0.0 | 13.8 | OK | 30.7 | 6.3 | 32.6 | 261.9 | OK |
| 0.0 | -12.4 | -9.5 | 5.8 | 0.0 | -16.1 | -12.3 | 7.6 | 0.0 | 13.8 | OK | 49.4 | 3.5 | 49.8 | 261.9 | OK |
| 0.0 | -3.3 | -3.0 | 9.2 | 0.0 | -4.2 | -3.9 | 12.0 | 0.0 | 13.8 | OK | 15.5 | 5.5 | 18.3 | 261.9 | OK |
| 0.0 | -38.8 | -2.8 | 11.1 | 0.0 | -50.5 | -3.6 | 14.4 | 0.0 | 13.8 | OK | 24.2 | 6.7 | 26.8 | 261.9 | OK |
| 12.3 | 1.7 | -13.9 | 8.3 | 16.0 | 2.2 | -18.0 | 10.8 | 0.1 | 13.8 | OK | 67.6 | 5.0 | 68.2 | 261.9 | OK |
| 43.8 | 6.1 | -17.1 | 5.3 | 56.9 | 7.9 | -22.2 | 6.9 | 0.3 | 13.8 | OK | 84.4 | 3.2 | 84.6 | 261.9 | OK |
| 27.3 | 3.8 | -10.1 | 5.4 | 35.5 | 5.0 | -13.1 | 7.0 | 0.2 | 13.8 | OK | 50.0 | 3.3 | 50.4 | 261.9 | OK |
| 19.8 | 2.8 | -17.3 | 4.1 | 25.7 | 3.6 | -22.5 | 5.3 | 0.1 | 13.8 | OK | 84.5 | 2.4 | 84.6 | 261.9 | OK |
| 25.1 | 3.5 | -3.1 | 5.1 | 32.7 | 4.6 | -4.0 | 6.7 | 0.2 | 13.8 | OK | 16.0 | 3.1 | 16.9 | 261.9 | OK |
| 23.6 | 3.3 | -2.4 | -5.7 | 30.7 | 4.3 | -3.2 | -7.4 | 0.2 | 13.8 | OK | 12.7 | -3.4 | 14.0 | 261.9 | OK |
| 9.6 | 1.3 | -21.8 | 2.8 | 12.5 | 1.8 | -28.3 | 3.7 | 0.1 | 13.8 | OK | 105.9 | 1.7 | 106.0 | 261.9 | OK |
| 44.3 | 6.2 | -18.6 | 2.4 | 57.6 | 8.1 | -24.2 | 3.1 | 0.3 | 13.8 | OK | 91.9 | 1.4 | 91.9 | 261.9 | OK |
| 29.1 | 4.1 | -15.1 | -0.3 | 37.9 | 5.3 | -19.7 | -0.4 | 0.2 | 13.8 | OK | 74.5 | -0.2 | 74.5 | 261.9 | OK |
| 43.0 | 6.0 | 11.1 | -3.2 | 55.9 | 7.8 | 14.4 | -4.1 | 0.3 | 13.8 | OK | 55.4 | -1.9 | 55.5 | 261.9 | OK |
| 0.0 | -11.5 | 8.8 | -2.6 | 0.0 | -14.9 | 11.5 | -3.4 | 0.0 | 13.8 | OK | 46.1 | -1.6 | 46.1 | 261.9 | OK |
| 23.8 | 3.3 | -11.1 | -4.8 | 31.0 | 4.3 | -14.5 | -6.2 | 0.2 | 13.8 | OK | 54.9 | -2.9 | 55.1 | 261.9 | OK |
| 27.1 | 3.8 | 6.7 | -4.8 | 35.3 | 4.9 | 8.8 | -6.2 | 0.2 | 13.8 | OK | 33.7 | -2.9 | 34.1 | 261.9 | OK |
| 29.6 | 4.1 | 12.9 | -1.7 | 38.5 | 5.4 | 16.8 | -2.2 | 0.2 | 13.8 | OK | 63.8 | -1.0 | 63.8 | 261.9 | OK |
| 0.0 | -35.6 | 14.6 | -0.4 | 0.0 | -46.3 | 19.0 | -0.5 | 0.0 | 13.8 | OK | 80.8 | -0.2 | 80.8 | 261.9 | OK |
| 0.0 | -6.0 | -1.8 | -6.0 | 0.0 | -7.8 | -2.3 | -7.8 | 0.0 | 13.8 | OK | 10.2 | -3.6 | 12.0 | 261.9 | OK |
| 0.0 | -10.6 | 15.5 | -2.2 | 0.0 | -13.8 | 20.1 | -2.8 | 0.0 | 13.8 | OK | 77.9 | -1.3 | 77.9 | 261.9 | OK |
| 54.4 | 7.6 | 14.6 | -2.8 | 70.8 | 9.9 | 19.0 | -3.7 | 0.4 | 13.8 | OK | 72.7 | -1.7 | 72.8 | 261.9 | OK |
| 0.0 | -7.2 | 9.2 | -4.0 | 0.0 | -9.4 | 11.9 | -5.2 | 0.0 | 13.8 | OK | 46.5 | -2.4 | 46.7 | 261.9 | OK |
| 1.4 | 0.2 | 4.5 | -5.9 | 1.8 | 0.3 | 5.9 | -7.7 | 0.0 | 13.8 | OK | 21.9 | -3.6 | 22.7 | 261.9 | OK |
| 32.8 | 4.6 | 2.4 | -5.7 | 42.7 | 6.0 | 3.1 | -7.4 | 0.2 | 13.8 | OK | 12.8 | -3.4 | 14.1 | 261.9 | OK |
| 29.0 | 4.1 | -8.8 | -7.4 | 37.7 | 5.3 | -11.4 | -9.7 | 0.2 | 13.8 | OK | 43.7 | -4.5 | 44.4 | 261.9 | OK |
| 53.9 | 7.5 | -12.7 | -4.5 | 70.0 | 9.8 | -16.5 | -5.8 | 0.4 | 13.8 | OK | 63.6 | -2.7 | 63.8 | 261.9 | OK |
| 9.5 | 1.3 | -8.3 | -6.9 | 12.3 | 1.7 | -10.8 | -9.0 | 0.1 | 13.8 | OK | 40.7 | -4.1 | 41.3 | 261.9 | OK |
| 17.9 | 2.5 | -12.7 | -4.0 | 23.3 | 3.3 | -16.5 | -5.1 | 0.1 | 13.8 | OK | 62.2 | -2.4 | 62.4 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|-------|-------|------|------|-------|-------|------|-----|------|----|-------|------|-------|-------|----|
| 0.0 | -20.7 | 2.5 | -5.5 | 0.0 | -26.9 | 3.3 | -7.2 | 0.0 | 13.8 | OK | 18.0 | -3.3 | 18.9 | 261.9 | OK |
| 0.0 | -13.0 | -8.8 | -4.6 | 0.0 | -16.9 | -11.5 | -6.0 | 0.0 | 13.8 | OK | 46.4 | -2.8 | 46.6 | 261.9 | OK |
| 32.9 | 4.6 | -7.0 | -4.8 | 42.8 | 6.0 | -9.1 | -6.3 | 0.2 | 13.8 | OK | 35.2 | -2.9 | 35.6 | 261.9 | OK |
| 25.4 | 3.6 | -17.3 | -4.9 | 33.1 | 4.6 | -22.5 | -6.4 | 0.2 | 13.8 | OK | 84.9 | -2.9 | 85.1 | 261.9 | OK |
| 21.0 | 2.9 | -20.1 | -2.6 | 27.3 | 3.8 | -26.1 | -3.3 | 0.1 | 13.8 | OK | 98.0 | -1.5 | 98.1 | 261.9 | OK |
| 3.4 | 0.5 | -15.0 | -4.6 | 4.5 | 0.6 | -19.5 | -6.0 | 0.0 | 13.8 | OK | 72.9 | -2.8 | 73.0 | 261.9 | OK |
| 31.6 | 4.4 | 2.3 | -4.9 | 41.1 | 5.7 | 3.1 | -6.4 | 0.2 | 13.8 | OK | 12.6 | -2.9 | 13.6 | 261.9 | OK |
| 0.0 | -4.4 | -17.6 | 0.2 | 0.0 | -5.7 | -22.9 | 0.3 | 0.0 | 13.8 | OK | 86.6 | 0.1 | 86.6 | 261.9 | OK |
| 23.4 | 3.3 | -18.9 | 0.5 | 30.4 | 4.2 | -24.6 | 0.6 | 0.2 | 13.8 | OK | 92.5 | 0.3 | 92.5 | 261.9 | OK |
| 3.3 | 0.5 | -1.1 | -4.1 | 4.3 | 0.6 | -1.5 | -5.3 | 0.0 | 13.8 | OK | 5.5 | -2.4 | 7.0 | 261.9 | OK |
| 1.3 | 0.2 | 13.1 | -3.8 | 1.8 | 0.2 | 17.0 | -5.0 | 0.0 | 13.8 | OK | 63.4 | -2.3 | 63.6 | 261.9 | OK |
| 48.0 | 6.7 | -1.3 | -6.7 | 62.4 | 8.7 | -1.7 | -8.7 | 0.3 | 13.8 | OK | 8.2 | -4.0 | 10.7 | 261.9 | OK |
| 48.2 | 6.7 | 8.6 | -5.2 | 62.6 | 8.7 | 11.2 | -6.8 | 0.3 | 13.8 | OK | 43.7 | -3.1 | 44.0 | 261.9 | OK |
| 0.0 | -27.4 | 11.3 | -4.2 | 0.0 | -35.7 | 14.7 | -5.4 | 0.0 | 13.8 | OK | 62.4 | -2.5 | 62.5 | 261.9 | OK |
| 28.7 | 4.0 | 10.5 | -3.1 | 37.3 | 5.2 | 13.6 | -4.1 | 0.2 | 13.8 | OK | 51.9 | -1.9 | 52.0 | 261.9 | OK |
| 39.6 | 5.5 | -14.3 | -2.2 | 51.5 | 7.2 | -18.6 | -2.9 | 0.3 | 13.8 | OK | 70.9 | -1.3 | 71.0 | 261.9 | OK |
| 31.6 | 4.4 | 15.0 | -1.0 | 41.1 | 5.7 | 19.5 | -1.4 | 0.2 | 13.8 | OK | 73.8 | -0.6 | 73.8 | 261.9 | OK |
| 19.6 | 2.7 | 3.8 | 6.8 | 25.4 | 3.6 | 5.0 | 8.9 | 0.1 | 13.8 | OK | 19.4 | 4.1 | 20.6 | 261.9 | OK |
| 37.5 | 5.2 | 6.7 | 8.4 | 48.8 | 6.8 | 8.7 | 10.9 | 0.2 | 13.8 | OK | 34.0 | 5.0 | 35.1 | 261.9 | OK |
| 74.5 | 10.4 | -23.8 | 2.5 | 96.8 | 13.5 | -30.9 | 3.3 | 0.5 | 13.8 | OK | 118.1 | 1.5 | 118.1 | 261.9 | OK |
| 40.2 | 5.6 | -16.0 | 5.0 | 52.2 | 7.3 | -20.8 | 6.5 | 0.3 | 13.8 | OK | 79.1 | 3.0 | 79.3 | 261.9 | OK |
| 10.2 | 1.4 | -20.0 | 10.2 | 13.3 | 1.9 | -26.0 | 13.3 | 0.1 | 13.8 | OK | 97.4 | 6.1 | 97.9 | 261.9 | OK |
| 25.6 | 3.6 | -9.9 | 7.6 | 33.3 | 4.7 | -12.8 | 9.9 | 0.2 | 13.8 | OK | 48.8 | 4.6 | 49.5 | 261.9 | OK |
| 36.4 | 5.1 | 14.6 | 3.0 | 47.3 | 6.6 | 19.0 | 3.9 | 0.2 | 13.8 | OK | 72.3 | 1.8 | 72.3 | 261.9 | OK |
| 0.0 | -32.0 | 10.6 | 5.6 | 0.0 | -41.6 | 13.8 | 7.3 | 0.0 | 13.8 | OK | 60.5 | 3.4 | 60.8 | 261.9 | OK |
| 50.5 | 7.1 | -20.3 | -1.6 | 65.7 | 9.2 | -26.4 | -2.1 | 0.3 | 13.8 | OK | 100.4 | -1.0 | 100.4 | 261.9 | OK |
| 0.0 | -19.6 | 15.2 | 1.1 | 0.0 | -25.5 | 19.8 | 1.5 | 0.0 | 13.8 | OK | 79.2 | 0.7 | 79.3 | 261.9 | OK |
| 50.5 | 7.1 | -25.0 | 1.9 | 65.6 | 9.2 | -32.5 | 2.5 | 0.3 | 13.8 | OK | 123.1 | 1.1 | 123.2 | 261.9 | OK |
| 18.9 | 2.6 | -30.3 | -0.9 | 24.5 | 3.4 | -39.4 | -1.2 | 0.1 | 13.8 | OK | 147.4 | -0.6 | 147.4 | 261.9 | OK |
| 25.9 | 3.6 | -3.2 | 9.1 | 33.6 | 4.7 | -4.2 | 11.9 | 0.2 | 13.8 | OK | 16.6 | 5.5 | 19.1 | 261.9 | OK |
| 28.1 | 3.9 | 13.7 | 0.3 | 36.6 | 5.1 | 17.8 | 0.4 | 0.2 | 13.8 | OK | 67.5 | 0.2 | 67.5 | 261.9 | OK |
| 21.4 | 3.0 | 12.4 | 2.7 | 27.8 | 3.9 | 16.2 | 3.5 | 0.1 | 13.8 | OK | 61.1 | 1.6 | 61.1 | 261.9 | OK |
| 28.7 | 4.0 | -19.7 | 3.4 | 37.3 | 5.2 | -25.5 | 4.4 | 0.2 | 13.8 | OK | 96.3 | 2.0 | 96.4 | 261.9 | OK |
| 38.3 | 5.3 | -24.1 | 3.9 | 49.7 | 6.9 | -31.3 | 5.1 | 0.2 | 13.8 | OK | 118.1 | 2.4 | 118.2 | 261.9 | OK |
| 3.9 | 0.5 | -28.3 | 5.2 | 5.1 | 0.7 | -36.8 | 6.7 | 0.0 | 13.8 | OK | 137.3 | 3.1 | 137.5 | 261.9 | OK |
| 0.0 | -10.3 | 13.4 | 4.6 | 0.0 | -13.3 | 17.4 | 6.0 | 0.0 | 13.8 | OK | 67.9 | 2.8 | 68.0 | 261.9 | OK |
| 0.0 | -19.4 | -3.0 | 8.4 | 0.0 | -25.3 | -3.9 | 10.9 | 0.0 | 13.8 | OK | 20.1 | 5.0 | 21.9 | 261.9 | OK |
| 27.6 | 3.9 | -2.8 | 7.5 | 35.9 | 5.0 | -3.7 | 9.8 | 0.2 | 13.8 | OK | 14.7 | 4.5 | 16.7 | 261.9 | OK |
| 0.0 | -6.3 | 16.7 | -0.6 | 0.0 | -8.1 | 21.7 | -0.8 | 0.0 | 13.8 | OK | 82.7 | -0.4 | 82.7 | 261.9 | OK |
| 0.0 | -13.1 | 7.0 | 4.3 | 0.0 | -17.0 | 9.2 | 5.6 | 0.0 | 13.8 | OK | 37.8 | 2.6 | 38.1 | 261.9 | OK |
| 27.7 | 3.9 | 10.3 | 4.2 | 36.0 | 5.0 | 13.4 | 5.4 | 0.2 | 13.8 | OK | 51.1 | 2.5 | 51.3 | 261.9 | OK |
| 10.7 | 1.5 | -25.9 | -5.6 | 13.9 | 1.9 | -33.7 | -7.3 | 0.1 | 13.8 | OK | 126.1 | -3.4 | 126.2 | 261.9 | OK |
| 0.0 | -23.1 | 14.9 | 0.1 | 0.0 | -30.0 | 19.3 | 0.1 | 0.0 | 13.8 | OK | 78.5 | 0.0 | 78.5 | 261.9 | OK |
| 36.7 | 5.1 | -19.2 | 9.8 | 47.7 | 6.7 | -24.9 | 12.8 | 0.2 | 13.8 | OK | 94.3 | 5.9 | 94.9 | 261.9 | OK |
| 0.0 | -16.4 | 7.6 | 7.0 | 0.0 | -21.3 | 9.9 | 9.1 | 0.0 | 13.8 | OK | 41.6 | 4.2 | 42.2 | 261.9 | OK |
| 1.5 | 0.2 | -19.5 | 4.6 | 1.9 | 0.3 | -25.3 | 5.9 | 0.0 | 13.8 | OK | 94.5 | 2.7 | 94.6 | 261.9 | OK |
| 13.5 | 1.9 | -9.0 | 6.6 | 17.6 | 2.5 | -11.7 | 8.6 | 0.1 | 13.8 | OK | 44.1 | 4.0 | 44.6 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|--------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 50.0 | 7.0 | -9.2 | 9.3 | 65.0 | 9.1 | -12.0 | 12.1 | 0.3 | 13.8 | OK | 46.6 | 5.6 | 47.6 | 261.9 | OK |
| 0.0 | -12.4 | 16.3 | 1.0 | 0.0 | -16.1 | 21.2 | 1.3 | 0.0 | 13.8 | OK | 82.4 | 0.6 | 82.4 | 261.9 | OK |
| 0.0 | -3.5 | -0.2 | 10.4 | 0.0 | -4.6 | -0.2 | 13.6 | 0.0 | 13.8 | OK | 1.9 | 6.3 | 11.0 | 261.9 | OK |
| 0.0 | -5.8 | -10.7 | 10.8 | 0.0 | -7.5 | -14.0 | 14.0 | 0.0 | 13.8 | OK | 53.7 | 6.5 | 54.8 | 261.9 | OK |
| 23.7 | 3.3 | 9.2 | 4.7 | 30.9 | 4.3 | 11.9 | 6.2 | 0.2 | 13.8 | OK | 45.3 | 2.8 | 45.6 | 261.9 | OK |
| 26.6 | 3.7 | -22.2 | -9.0 | 34.6 | 4.8 | -28.8 | -11.8 | 0.2 | 13.8 | OK | 108.5 | -5.4 | 108.9 | 261.9 | OK |
| 48.8 | 6.8 | -16.9 | -5.5 | 63.5 | 8.9 | -21.9 | -7.2 | 0.3 | 13.8 | OK | 83.6 | -3.3 | 83.8 | 261.9 | OK |
| 0.0 | -32.2 | -16.6 | -14.8 | 0.0 | -41.9 | -21.6 | -19.2 | 0.0 | 13.8 | OK | 89.6 | -8.9 | 90.9 | 261.9 | OK |
| 72.8 | 10.2 | -2.2 | -5.3 | 94.7 | 13.2 | -2.9 | -6.8 | 0.5 | 13.8 | OK | 13.7 | -3.2 | 14.8 | 261.9 | OK |
| 96.6 | 13.5 | -4.7 | -26.2 | 125.5 | 17.5 | -6.1 | -34.0 | 0.6 | 13.8 | OK | 26.6 | -15.7 | 38.1 | 261.9 | OK |
| 47.4 | 6.6 | -18.1 | -11.7 | 61.6 | 8.6 | -23.6 | -15.2 | 0.3 | 13.8 | OK | 89.7 | -7.0 | 90.5 | 261.9 | OK |
| 0.0 | -89.0 | -4.8 | -17.5 | 0.0 | -115.7 | -6.3 | -22.8 | 0.0 | 13.8 | OK | 48.4 | -10.5 | 51.7 | 261.9 | OK |
| 22.1 | 3.1 | -27.8 | -9.3 | 28.7 | 4.0 | -36.1 | -12.1 | 0.1 | 13.8 | OK | 135.4 | -5.6 | 135.7 | 261.9 | OK |
| 63.6 | 8.9 | -19.2 | -7.0 | 82.7 | 11.6 | -25.0 | -9.1 | 0.4 | 13.8 | OK | 95.6 | -4.2 | 95.9 | 261.9 | OK |
| 0.0 | -24.9 | -4.7 | -13.7 | 0.0 | -32.3 | -6.0 | -17.8 | 0.0 | 13.8 | OK | 29.5 | -8.2 | 32.8 | 261.9 | OK |
| 37.9 | 5.3 | -21.1 | -2.6 | 49.3 | 6.9 | -27.4 | -3.4 | 0.2 | 13.8 | OK | 103.7 | -1.6 | 103.7 | 261.9 | OK |
| 39.4 | 5.5 | -10.2 | -6.1 | 51.3 | 7.2 | -13.3 | -8.0 | 0.3 | 13.8 | OK | 50.9 | -3.7 | 51.3 | 261.9 | OK |
| 16.1 | 2.3 | -13.8 | 3.2 | 21.0 | 2.9 | -18.0 | 4.2 | 0.1 | 13.8 | OK | 67.7 | 1.9 | 67.8 | 261.9 | OK |
| 5.5 | 0.8 | -2.0 | 5.6 | 7.1 | 1.0 | -2.6 | 7.3 | 0.0 | 13.8 | OK | 9.9 | 3.4 | 11.5 | 261.9 | OK |
| 0.0 | -5.1 | -16.1 | 5.0 | 0.0 | -6.6 | -21.0 | 6.5 | 0.0 | 13.8 | OK | 79.7 | 3.0 | 79.8 | 261.9 | OK |
| 46.3 | 6.5 | -16.2 | 0.0 | 60.2 | 8.4 | -21.1 | 0.0 | 0.3 | 13.8 | OK | 80.5 | 0.0 | 80.5 | 261.9 | OK |
| 0.0 | -76.4 | -8.7 | 8.5 | 0.0 | -99.4 | -11.3 | 11.0 | 0.0 | 13.8 | OK | 63.4 | 5.1 | 64.0 | 261.9 | OK |
| 0.0 | -13.3 | -2.8 | 4.0 | 0.0 | -17.3 | -3.6 | 5.2 | 0.0 | 13.8 | OK | 17.3 | 2.4 | 17.8 | 261.9 | OK |
| 29.6 | 4.1 | -8.6 | 5.4 | 38.5 | 5.4 | -11.1 | 7.0 | 0.2 | 13.8 | OK | 42.6 | 3.2 | 43.0 | 261.9 | OK |
| 37.1 | 5.2 | -0.8 | -7.7 | 48.3 | 6.7 | -1.1 | -9.9 | 0.2 | 13.8 | OK | 5.4 | -4.6 | 9.6 | 261.9 | OK |
| 0.0 | -35.6 | 10.4 | -1.8 | 0.0 | -46.3 | 13.6 | -2.3 | 0.0 | 13.8 | OK | 60.5 | -1.1 | 60.5 | 261.9 | OK |
| 43.2 | 6.0 | -12.2 | -6.7 | 56.1 | 7.8 | -15.9 | -8.7 | 0.3 | 13.8 | OK | 60.8 | -4.0 | 61.2 | 261.9 | OK |
| 39.4 | 5.5 | 8.9 | -5.0 | 51.2 | 7.1 | 11.5 | -6.5 | 0.3 | 13.8 | OK | 44.4 | -3.0 | 44.8 | 261.9 | OK |
| 49.3 | 6.9 | 13.5 | -1.3 | 64.1 | 9.0 | 17.5 | -1.7 | 0.3 | 13.8 | OK | 67.2 | -0.8 | 67.2 | 261.9 | OK |
| 0.0 | -59.5 | 14.4 | 0.2 | 0.0 | -77.4 | 18.7 | 0.3 | 0.0 | 13.8 | OK | 86.2 | 0.1 | 86.2 | 261.9 | OK |
| 6.5 | 0.9 | -11.7 | -2.7 | 8.4 | 1.2 | -15.2 | -3.5 | 0.0 | 13.8 | OK | 56.7 | -1.6 | 56.8 | 261.9 | OK |
| 0.0 | -51.5 | 4.8 | -5.1 | 0.0 | -66.9 | 6.2 | -6.6 | 0.0 | 13.8 | OK | 37.5 | -3.0 | 37.9 | 261.9 | OK |
| 0.0 | -40.8 | -7.3 | -5.7 | 0.0 | -53.0 | -9.5 | -7.4 | 0.0 | 13.8 | OK | 46.8 | -3.4 | 47.2 | 261.9 | OK |
| 56.2 | 7.8 | -6.7 | -6.9 | 73.0 | 10.2 | -8.8 | -9.0 | 0.4 | 13.8 | OK | 34.9 | -4.2 | 35.6 | 261.9 | OK |
| 49.3 | 6.9 | 4.7 | -5.5 | 64.1 | 9.0 | 6.1 | -7.1 | 0.3 | 13.8 | OK | 24.5 | -3.3 | 25.1 | 261.9 | OK |
| 0.0 | -28.9 | -17.3 | 0.2 | 0.0 | -37.5 | -22.4 | 0.3 | 0.0 | 13.8 | OK | 91.7 | 0.1 | 91.7 | 261.9 | OK |
| 13.5 | 1.9 | -18.3 | 2.7 | 17.6 | 2.5 | -23.8 | 3.6 | 0.1 | 13.8 | OK | 89.3 | 1.6 | 89.3 | 261.9 | OK |
| 0.0 | -21.3 | 1.1 | -3.8 | 0.0 | -27.7 | 1.5 | -4.9 | 0.0 | 13.8 | OK | 11.5 | -2.3 | 12.2 | 261.9 | OK |
| 0.0 | -52.6 | 12.3 | -2.9 | 0.0 | -68.4 | 15.9 | -3.7 | 0.0 | 13.8 | OK | 74.1 | -1.7 | 74.1 | 261.9 | OK |
| 45.6 | 6.4 | 11.9 | -2.2 | 59.3 | 8.3 | 15.5 | -2.8 | 0.3 | 13.8 | OK | 59.4 | -1.3 | 59.4 | 261.9 | OK |
| 65.7 | 9.2 | -16.0 | -2.8 | 85.4 | 11.9 | -20.8 | -3.6 | 0.4 | 13.8 | OK | 80.2 | -1.7 | 80.3 | 261.9 | OK |
| 31.8 | 4.4 | 6.6 | 7.2 | 41.4 | 5.8 | 8.5 | 9.3 | 0.2 | 13.8 | OK | 33.1 | 4.3 | 33.9 | 261.9 | OK |
| 60.1 | 8.4 | -17.8 | 9.4 | 78.1 | 10.9 | -23.2 | 12.3 | 0.4 | 13.8 | OK | 88.7 | 5.7 | 89.2 | 261.9 | OK |
| 35.1 | 4.9 | -8.8 | 11.1 | 45.7 | 6.4 | -11.5 | 14.4 | 0.2 | 13.8 | OK | 44.1 | 6.6 | 45.6 | 261.9 | OK |
| 0.0 | -58.4 | 11.8 | 3.2 | 0.0 | -75.9 | 15.3 | 4.1 | 0.0 | 13.8 | OK | 73.4 | 1.9 | 73.5 | 261.9 | OK |
| 72.1 | 10.1 | -27.3 | -1.2 | 93.7 | 13.1 | -35.5 | -1.6 | 0.5 | 13.8 | OK | 135.0 | -0.7 | 135.0 | 261.9 | OK |
| 0.0 | -29.9 | 14.5 | 0.7 | 0.0 | -38.8 | 18.9 | 1.0 | 0.0 | 13.8 | OK | 78.8 | 0.4 | 78.8 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|-------|-------|-------|--------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 49.5 | 6.9 | 14.1 | -0.1 | 64.3 | 9.0 | 18.3 | -0.2 | 0.3 | 13.8 | OK | 70.2 | -0.1 | 70.2 | 261.9 | OK |
| 40.6 | 5.7 | 13.2 | 2.5 | 52.8 | 7.4 | 17.2 | 3.2 | 0.3 | 13.8 | OK | 65.7 | 1.5 | 65.8 | 261.9 | OK |
| 44.8 | 6.3 | -24.8 | 6.8 | 58.3 | 8.1 | -32.2 | 8.8 | 0.3 | 13.8 | OK | 121.8 | 4.1 | 122.0 | 261.9 | OK |
| 39.3 | 5.5 | -27.1 | 6.5 | 51.1 | 7.1 | -35.2 | 8.4 | 0.3 | 13.8 | OK | 132.7 | 3.9 | 132.8 | 261.9 | OK |
| 0.0 | -60.6 | 1.1 | 8.5 | 0.0 | -78.8 | 1.5 | 11.1 | 0.0 | 13.8 | OK | 22.5 | 5.1 | 24.1 | 261.9 | OK |
| 0.0 | -44.8 | 9.5 | 2.6 | 0.0 | -58.2 | 12.4 | 3.4 | 0.0 | 13.8 | OK | 58.6 | 1.6 | 58.7 | 261.9 | OK |
| 0.0 | -39.8 | 14.2 | -0.4 | 0.0 | -51.7 | 18.5 | -0.6 | 0.0 | 13.8 | OK | 80.1 | -0.3 | 80.1 | 261.9 | OK |
| 0.0 | -26.6 | -19.3 | 9.8 | 0.0 | -34.5 | -25.1 | 12.7 | 0.0 | 13.8 | OK | 100.8 | 5.9 | 101.3 | 261.9 | OK |
| 45.5 | 6.4 | 0.0 | 9.0 | 59.1 | 8.3 | 0.0 | 11.8 | 0.3 | 13.8 | OK | 1.9 | 5.4 | 9.6 | 261.9 | OK |
| 0.0 | -5.7 | -35.1 | -5.3 | 0.0 | -7.4 | -45.6 | -6.9 | 0.0 | 13.8 | OK | 171.5 | -3.2 | 171.6 | 261.9 | OK |
| 0.0 | -17.3 | -4.7 | 6.6 | 0.0 | -22.5 | -6.1 | 8.6 | 0.0 | 13.8 | OK | 27.7 | 4.0 | 28.6 | 261.9 | OK |
| 45.8 | 6.4 | 11.0 | 3.4 | 59.5 | 8.3 | 14.3 | 4.5 | 0.3 | 13.8 | OK | 54.9 | 2.1 | 55.0 | 261.9 | OK |
| 11.9 | 1.7 | -32.9 | -14.0 | 15.4 | 2.2 | -42.8 | -18.2 | 0.1 | 13.8 | OK | 160.1 | -8.4 | 160.7 | 261.9 | OK |
| 59.6 | 8.3 | -22.9 | -7.1 | 77.5 | 10.8 | -29.8 | -9.3 | 0.4 | 13.8 | OK | 113.4 | -4.3 | 113.6 | 261.9 | OK |
| 58.2 | 8.1 | -2.7 | -3.9 | 75.6 | 10.6 | -3.5 | -5.0 | 0.4 | 13.8 | OK | 15.5 | -2.3 | 16.0 | 261.9 | OK |
| 0.0 | -95.2 | -5.2 | -24.5 | 0.0 | -123.8 | -6.7 | -31.9 | 0.0 | 13.8 | OK | 51.6 | -14.7 | 57.5 | 261.9 | OK |
| 28.8 | 4.0 | -26.5 | -5.3 | 37.5 | 5.2 | -34.5 | -6.8 | 0.2 | 13.8 | OK | 129.7 | -3.2 | 129.8 | 261.9 | OK |
| 16.2 | 2.3 | -14.7 | -5.5 | 21.0 | 2.9 | -19.2 | -7.2 | 0.1 | 13.8 | OK | 72.0 | -3.3 | 72.3 | 261.9 | OK |
| 173.3 | 24.2 | -39.9 | -10.5 | 225.3 | 31.5 | -51.9 | -13.6 | 1.1 | 13.8 | OK | 200.1 | -6.3 | 200.4 | 261.9 | OK |
| 94.0 | 13.1 | -41.2 | 0.0 | 122.2 | 17.1 | -53.5 | 0.0 | 0.6 | 13.8 | OK | 203.2 | 0.0 | 203.2 | 261.9 | OK |
| 129.4 | 18.1 | -5.4 | -4.4 | 168.3 | 23.5 | -7.0 | -5.7 | 0.8 | 13.8 | OK | 31.0 | -2.6 | 31.3 | 261.9 | OK |
| 175.4 | 24.5 | -12.8 | -26.4 | 228.1 | 31.9 | -16.6 | -34.3 | 1.1 | 13.8 | OK | 68.7 | -15.8 | 73.9 | 261.9 | OK |
| 112.1 | 15.7 | -19.6 | -10.7 | 145.8 | 20.4 | -25.4 | -13.9 | 0.7 | 13.8 | OK | 99.1 | -6.4 | 99.8 | 261.9 | OK |
| 137.0 | 19.1 | -26.4 | -8.3 | 178.2 | 24.9 | -34.3 | -10.8 | 0.9 | 13.8 | OK | 133.2 | -5.0 | 133.5 | 261.9 | OK |
| 87.4 | 12.2 | -48.7 | -9.6 | 113.6 | 15.9 | -63.4 | -12.4 | 0.6 | 13.8 | OK | 239.6 | -5.7 | 239.8 | 261.9 | OK |
| 160.6 | 22.4 | -40.1 | -24.8 | 208.8 | 29.2 | -52.1 | -32.3 | 1.0 | 13.8 | OK | 200.6 | -14.9 | 202.2 | 261.9 | OK |
| 120.9 | 16.9 | -28.7 | -17.9 | 157.1 | 22.0 | -37.3 | -23.2 | 0.8 | 13.8 | OK | 143.7 | -10.7 | 144.8 | 261.9 | OK |
| 24.3 | 3.4 | -11.9 | -60.1 | 31.6 | 4.4 | -15.4 | -78.1 | 0.2 | 13.8 | OK | 58.5 | -36.1 | 85.6 | 261.9 | OK |
| 370.5 | 51.8 | -15.0 | -29.1 | 481.6 | 67.3 | -19.5 | -37.8 | 2.4 | 13.8 | OK | 87.3 | -17.5 | 92.4 | 261.9 | OK |
| 60.7 | 8.5 | -29.3 | -3.4 | 78.9 | 11.0 | -38.1 | -4.4 | 0.4 | 13.8 | OK | 144.3 | -2.0 | 144.4 | 261.9 | OK |
| 59.1 | 8.3 | -50.0 | 4.9 | 76.8 | 10.7 | -65.0 | 6.4 | 0.4 | 13.8 | OK | 244.7 | 3.0 | 244.8 | 261.9 | OK |
| 22.2 | 3.1 | 13.2 | 16.7 | 28.9 | 4.0 | 17.1 | 21.7 | 0.1 | 13.8 | OK | 64.6 | 10.0 | 66.9 | 261.9 | OK |
| 0.0 | -51.3 | 14.0 | 14.3 | 0.0 | -66.7 | 18.2 | 18.6 | 0.0 | 13.8 | OK | 82.1 | 8.6 | 83.4 | 261.9 | OK |
| 0.0 | -68.1 | -6.4 | -39.4 | 0.0 | -88.5 | -8.3 | -51.3 | 0.0 | 13.8 | OK | 49.8 | -23.7 | 64.5 | 261.9 | OK |
| 0.0 | -128.5 | 2.3 | -21.8 | 0.0 | -167.1 | 3.0 | -28.3 | 0.0 | 13.8 | OK | 47.2 | -13.1 | 52.3 | 261.9 | OK |
| 27.0 | 3.8 | -37.4 | 18.2 | 35.1 | 4.9 | -48.7 | 23.6 | 0.2 | 13.8 | OK | 182.4 | 10.9 | 183.4 | 261.9 | OK |
| 17.6 | 2.5 | -6.6 | 17.5 | 22.8 | 3.2 | -8.6 | 22.7 | 0.1 | 13.8 | OK | 32.6 | 10.5 | 37.3 | 261.9 | OK |
| 0.0 | -113.9 | -5.0 | -37.1 | 0.0 | -148.0 | -6.5 | -48.3 | 0.0 | 13.8 | OK | 56.0 | -22.3 | 68.1 | 261.9 | OK |
| 39.5 | 5.5 | -1.2 | -15.2 | 51.4 | 7.2 | -1.5 | -19.7 | 0.3 | 13.8 | OK | 7.2 | -9.1 | 17.4 | 261.9 | OK |
| 113.5 | 15.9 | -39.6 | -0.4 | 147.6 | 20.6 | -51.5 | -0.5 | 0.7 | 13.8 | OK | 196.3 | -0.2 | 196.3 | 261.9 | OK |
| 0.0 | -48.9 | 24.9 | 7.2 | 0.0 | -63.6 | 32.4 | 9.4 | 0.0 | 13.8 | OK | 134.3 | 4.3 | 134.5 | 261.9 | OK |
| 0.0 | -68.6 | 27.5 | -4.2 | 0.0 | -89.2 | 35.8 | -5.5 | 0.0 | 13.8 | OK | 152.5 | -2.5 | 152.6 | 261.9 | OK |
| 0.0 | -22.7 | -6.3 | 16.1 | 0.0 | -29.5 | -8.2 | 20.9 | 0.0 | 13.8 | OK | 37.1 | 9.7 | 40.7 | 261.9 | OK |
| 0.0 | -34.8 | 21.8 | -12.8 | 0.0 | -45.3 | 28.3 | -16.7 | 0.0 | 13.8 | OK | 115.2 | -7.7 | 116.0 | 261.9 | OK |
| 52.7 | 7.4 | -34.2 | 16.1 | 68.5 | 9.6 | -44.5 | 20.9 | 0.3 | 13.8 | OK | 167.8 | 9.6 | 168.7 | 261.9 | OK |
| 0.0 | -15.0 | 17.9 | -10.2 | 0.0 | -19.5 | 23.3 | -13.2 | 0.0 | 13.8 | OK | 90.9 | -6.1 | 91.6 | 261.9 | OK |
| 0.0 | -81.8 | 19.0 | -13.1 | 0.0 | -106.3 | 24.7 | -17.0 | 0.0 | 13.8 | OK | 114.8 | -7.8 | 115.6 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|--------|-------|-------|------|--------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 5.7 | 0.8 | 7.8 | 14.0 | 7.5 | 1.0 | 10.2 | 18.2 | 0.0 | 13.8 | OK | 38.1 | 8.4 | 40.8 | 261.9 | OK |
| 60.8 | 8.5 | -28.0 | 6.6 | 79.0 | 11.0 | -36.4 | 8.6 | 0.4 | 13.8 | OK | 138.2 | 4.0 | 138.4 | 261.9 | OK |
| 0.9 | 0.1 | 18.7 | 9.5 | 1.1 | 0.2 | 24.3 | 12.4 | 0.0 | 13.8 | OK | 90.5 | 5.7 | 91.0 | 261.9 | OK |
| 0.0 | -69.4 | 20.8 | 9.9 | 0.0 | -90.2 | 27.1 | 12.8 | 0.0 | 13.8 | OK | 120.2 | 5.9 | 120.7 | 261.9 | OK |
| 0.0 | -25.6 | 23.3 | 1.0 | 0.0 | -33.3 | 30.3 | 1.2 | 0.0 | 13.8 | OK | 120.1 | 0.6 | 120.1 | 261.9 | OK |
| 32.8 | 4.6 | -18.6 | 13.1 | 42.6 | 6.0 | -24.2 | 17.0 | 0.2 | 13.8 | OK | 91.5 | 7.9 | 92.5 | 261.9 | OK |
| 0.0 | -8.5 | 25.6 | 1.3 | 0.0 | -11.1 | 33.3 | 1.7 | 0.0 | 13.8 | OK | 126.5 | 0.8 | 126.5 | 261.9 | OK |
| 30.9 | 4.3 | -17.3 | 12.9 | 40.2 | 5.6 | -22.5 | 16.7 | 0.2 | 13.8 | OK | 85.1 | 7.7 | 86.2 | 261.9 | OK |
| 0.0 | -84.0 | 25.9 | -2.1 | 0.0 | -109.2 | 33.7 | -2.8 | 0.0 | 13.8 | OK | 149.0 | -1.3 | 149.0 | 261.9 | OK |
| 0.0 | -12.6 | -21.4 | 21.1 | 0.0 | -16.3 | -27.8 | 27.4 | 0.0 | 13.8 | OK | 107.1 | 12.6 | 109.3 | 261.9 | OK |
| 62.8 | 8.8 | -17.6 | 16.6 | 81.7 | 11.4 | -22.9 | 21.6 | 0.4 | 13.8 | OK | 87.8 | 10.0 | 89.5 | 261.9 | OK |
| 0.0 | -27.5 | 13.8 | 10.3 | 0.0 | -35.7 | 17.9 | 13.4 | 0.0 | 13.8 | OK | 74.3 | 6.2 | 75.1 | 261.9 | OK |
| 14.8 | 2.1 | -35.1 | 5.8 | 19.3 | 2.7 | -45.6 | 7.6 | 0.1 | 13.8 | OK | 170.6 | 3.5 | 170.7 | 261.9 | OK |
| 69.1 | 9.7 | -40.5 | 6.3 | 89.9 | 12.6 | -52.6 | 8.1 | 0.4 | 13.8 | OK | 198.7 | 3.8 | 198.8 | 261.9 | OK |
| 0.0 | -4.7 | 20.2 | 7.6 | 0.0 | -6.1 | 26.3 | 9.9 | 0.0 | 13.8 | OK | 99.4 | 4.6 | 99.7 | 261.9 | OK |
| 35.2 | 4.9 | -5.5 | 14.9 | 45.7 | 6.4 | -7.1 | 19.3 | 0.2 | 13.8 | OK | 28.0 | 8.9 | 31.9 | 261.9 | OK |
| 0.0 | -16.9 | -1.0 | 21.0 | 0.0 | -22.0 | -1.2 | 27.3 | 0.0 | 13.8 | OK | 9.3 | 12.6 | 23.7 | 261.9 | OK |
| 0.0 | -102.0 | 22.1 | -11.3 | 0.0 | -132.6 | 28.7 | -14.7 | 0.0 | 13.8 | OK | 135.5 | -6.8 | 136.0 | 261.9 | OK |
| 56.1 | 7.8 | -31.7 | 2.8 | 72.9 | 10.2 | -41.2 | 3.6 | 0.4 | 13.8 | OK | 155.8 | 1.7 | 155.8 | 261.9 | OK |
| 0.0 | -43.5 | 1.3 | 8.0 | 0.0 | -56.6 | 1.8 | 10.5 | 0.0 | 13.8 | OK | 18.7 | 4.8 | 20.5 | 261.9 | OK |
| 0.0 | -10.4 | -17.8 | 2.6 | 0.0 | -13.6 | -23.1 | 3.4 | 0.0 | 13.8 | OK | 89.2 | 1.6 | 89.2 | 261.9 | OK |
| 0.0 | -58.4 | 6.2 | 1.2 | 0.0 | -75.9 | 8.0 | 1.5 | 0.0 | 13.8 | OK | 46.3 | 0.7 | 46.3 | 261.9 | OK |
| 17.7 | 2.5 | -11.1 | -4.4 | 23.0 | 3.2 | -14.4 | -5.7 | 0.1 | 13.8 | OK | 54.4 | -2.6 | 54.6 | 261.9 | OK |
| 16.1 | 2.2 | -2.3 | -6.0 | 20.9 | 2.9 | -3.0 | -7.8 | 0.1 | 13.8 | OK | 11.7 | -3.6 | 13.3 | 261.9 | OK |
| 22.0 | 3.1 | 6.1 | 0.0 | 28.6 | 4.0 | 7.9 | -0.1 | 0.1 | 13.8 | OK | 30.2 | 0.0 | 30.2 | 261.9 | OK |
| 0.0 | -25.8 | 6.3 | -0.2 | 0.0 | -33.6 | 8.1 | -0.2 | 0.0 | 13.8 | OK | 37.6 | -0.1 | 37.6 | 261.9 | OK |
| 16.5 | 2.3 | 4.8 | -3.6 | 21.4 | 3.0 | 6.2 | -4.7 | 0.1 | 13.8 | OK | 23.8 | -2.2 | 24.1 | 261.9 | OK |
| 21.9 | 3.1 | -6.5 | 5.5 | 28.5 | 4.0 | -8.5 | 7.2 | 0.1 | 13.8 | OK | 32.4 | 3.3 | 32.9 | 261.9 | OK |
| 0.0 | -25.5 | -14.5 | -9.3 | 0.0 | -33.1 | -18.9 | -12.1 | 0.0 | 13.8 | OK | 77.4 | -5.6 | 78.0 | 261.9 | OK |
| 59.0 | 8.2 | -12.2 | -7.9 | 76.7 | 10.7 | -15.8 | -10.2 | 0.4 | 13.8 | OK | 61.4 | -4.7 | 61.9 | 261.9 | OK |
| 30.3 | 4.2 | -12.0 | -3.4 | 39.5 | 5.5 | -15.6 | -4.4 | 0.2 | 13.8 | OK | 59.5 | -2.0 | 59.6 | 261.9 | OK |
| 42.5 | 5.9 | 6.1 | -2.9 | 55.3 | 7.7 | 7.9 | -3.7 | 0.3 | 13.8 | OK | 31.3 | -1.7 | 31.4 | 261.9 | OK |
| 0.0 | -33.1 | 6.2 | 1.3 | 0.0 | -43.0 | 8.0 | 1.7 | 0.0 | 13.8 | OK | 39.1 | 0.8 | 39.2 | 261.9 | OK |
| 18.6 | 2.6 | 2.8 | -4.3 | 24.2 | 3.4 | 3.6 | -5.5 | 0.1 | 13.8 | OK | 14.2 | -2.6 | 14.9 | 261.9 | OK |
| 0.0 | -15.5 | 5.8 | -2.9 | 0.0 | -20.1 | 7.5 | -3.8 | 0.0 | 13.8 | OK | 32.2 | -1.7 | 32.4 | 261.9 | OK |
| 0.0 | -37.7 | 3.1 | -4.1 | 0.0 | -49.0 | 4.0 | -5.3 | 0.0 | 13.8 | OK | 25.4 | -2.5 | 25.8 | 261.9 | OK |
| 34.2 | 4.8 | 2.0 | -4.9 | 44.5 | 6.2 | 2.6 | -6.4 | 0.2 | 13.8 | OK | 11.1 | -2.9 | 12.2 | 261.9 | OK |
| 0.0 | -53.0 | -9.2 | 7.7 | 0.0 | -68.9 | -11.9 | 10.0 | 0.0 | 13.8 | OK | 59.3 | 4.6 | 59.9 | 261.9 | OK |
| 0.0 | -83.2 | -6.1 | 26.6 | 0.0 | -108.2 | -8.0 | 34.5 | 0.0 | 13.8 | OK | 53.0 | 15.9 | 59.8 | 261.9 | OK |
| 0.0 | -68.9 | 1.5 | 7.3 | 0.0 | -89.5 | 2.0 | 9.5 | 0.0 | 13.8 | OK | 26.6 | 4.4 | 27.6 | 261.9 | OK |
| 24.2 | 3.4 | 2.1 | 5.8 | 31.5 | 4.4 | 2.8 | 7.6 | 0.2 | 13.8 | OK | 11.2 | 3.5 | 12.8 | 261.9 | OK |
| 31.5 | 4.4 | -21.3 | -7.2 | 40.9 | 5.7 | -27.7 | -9.4 | 0.2 | 13.8 | OK | 104.5 | -4.3 | 104.8 | 261.9 | OK |
| 0.0 | -41.2 | 1.2 | -5.2 | 0.0 | -53.5 | 1.6 | -6.7 | 0.0 | 13.8 | OK | 17.4 | -3.1 | 18.2 | 261.9 | OK |
| 44.5 | 6.2 | 0.2 | -7.8 | 57.9 | 8.1 | 0.2 | -10.1 | 0.3 | 13.8 | OK | 2.6 | -4.7 | 8.5 | 261.9 | OK |
| 0.0 | -15.7 | -4.9 | -9.5 | 0.0 | -20.4 | -6.4 | -12.3 | 0.0 | 13.8 | OK | 28.3 | -5.7 | 30.0 | 261.9 | OK |
| 12.9 | 1.8 | -7.5 | -8.5 | 16.8 | 2.3 | -9.7 | -11.0 | 0.1 | 13.8 | OK | 36.7 | -5.1 | 37.7 | 261.9 | OK |
| 0.0 | -19.0 | 4.8 | 2.9 | 0.0 | -24.7 | 6.2 | 3.8 | 0.0 | 13.8 | OK | 28.4 | 1.7 | 28.5 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|-------|------|-------|--------|-------|------|-----|------|----|-------|------|-------|-------|----|
| 0.0 | -1.6 | 1.4 | 6.4 | 0.0 | -2.1 | 1.8 | 8.3 | 0.0 | 13.8 | OK | 7.0 | 3.8 | 9.7 | 261.9 | OK |
| 0.0 | -77.4 | -6.0 | 22.3 | 0.0 | -100.6 | -7.7 | 29.0 | 0.0 | 13.8 | OK | 50.5 | 13.4 | 55.6 | 261.9 | OK |
| 40.4 | 5.6 | -13.8 | -0.4 | 52.5 | 7.3 | -18.0 | -0.6 | 0.3 | 13.8 | OK | 68.5 | -0.3 | 68.5 | 261.9 | OK |
| 28.0 | 3.9 | 5.5 | 0.7 | 36.4 | 5.1 | 7.1 | 0.9 | 0.2 | 13.8 | OK | 27.7 | 0.4 | 27.7 | 261.9 | OK |
| 2.1 | 0.3 | 0.5 | -2.2 | 2.8 | 0.4 | 0.6 | -2.9 | 0.0 | 13.8 | OK | 2.5 | -1.3 | 3.4 | 261.9 | OK |
| 30.2 | 4.2 | -18.0 | -7.4 | 39.3 | 5.5 | -23.5 | -9.7 | 0.2 | 13.8 | OK | 88.6 | -4.5 | 88.9 | 261.9 | OK |
| 0.0 | -23.0 | -7.3 | -5.2 | 0.0 | -29.9 | -9.5 | -6.7 | 0.0 | 13.8 | OK | 42.0 | -3.1 | 42.4 | 261.9 | OK |
| 38.0 | 5.3 | -6.9 | -5.6 | 49.4 | 6.9 | -9.0 | -7.3 | 0.2 | 13.8 | OK | 35.0 | -3.4 | 35.5 | 261.9 | OK |
| 26.0 | 3.6 | -12.8 | 2.7 | 33.7 | 4.7 | -16.7 | 3.5 | 0.2 | 13.8 | OK | 63.2 | 1.6 | 63.3 | 261.9 | OK |
| 78.7 | 11.0 | -13.9 | 9.0 | 102.4 | 14.3 | -18.1 | 11.6 | 0.5 | 13.8 | OK | 70.6 | 5.4 | 71.2 | 261.9 | OK |
| 42.0 | 5.9 | -17.8 | -2.1 | 54.6 | 7.6 | -23.2 | -2.8 | 0.3 | 13.8 | OK | 88.1 | -1.3 | 88.1 | 261.9 | OK |
| 0.0 | -41.2 | -3.1 | 4.8 | 0.0 | -53.6 | -4.1 | 6.2 | 0.0 | 13.8 | OK | 26.7 | 2.9 | 27.2 | 261.9 | OK |
| 0.0 | -47.8 | -9.5 | 3.4 | 0.0 | -62.2 | -12.4 | 4.4 | 0.0 | 13.8 | OK | 59.4 | 2.0 | 59.5 | 261.9 | OK |
| 0.0 | -116.1 | -2.3 | 0.2 | 0.0 | -150.9 | -3.0 | 0.3 | 0.0 | 13.8 | OK | 43.7 | 0.1 | 43.7 | 261.9 | OK |
| 0.0 | -35.8 | -13.8 | 3.3 | 0.0 | -46.6 | -17.9 | 4.2 | 0.0 | 13.8 | OK | 76.9 | 2.0 | 77.0 | 261.9 | OK |
| 0.0 | -143.5 | -0.5 | 5.0 | 0.0 | -186.6 | -0.6 | 6.6 | 0.0 | 13.8 | OK | 42.5 | 3.0 | 42.8 | 261.9 | OK |
| 537.4 | 75.1 | -11.1 | 37.2 | 698.6 | 97.6 | -14.4 | 48.3 | 3.5 | 13.8 | OK | 74.7 | 22.3 | 84.1 | 261.9 | OK |
| 0.0 | -18.5 | -17.7 | 7.6 | 0.0 | -24.0 | -23.0 | 9.8 | 0.0 | 13.8 | OK | 90.8 | 4.5 | 91.1 | 261.9 | OK |
| 284.9 | 39.8 | -22.5 | 10.4 | 370.4 | 51.7 | -29.3 | 13.6 | 1.9 | 13.8 | OK | 120.2 | 6.3 | 120.7 | 261.9 | OK |
| 131.4 | 18.4 | -25.4 | -1.0 | 170.9 | 23.9 | -33.0 | -1.3 | 0.9 | 13.8 | OK | 128.2 | -0.6 | 128.2 | 261.9 | OK |
| 72.6 | 10.1 | -16.2 | 5.3 | 94.4 | 13.2 | -21.0 | 6.9 | 0.5 | 13.8 | OK | 81.1 | 3.2 | 81.3 | 261.9 | OK |
| 40.8 | 5.7 | -22.3 | 5.5 | 53.1 | 7.4 | -29.0 | 7.2 | 0.3 | 13.8 | OK | 109.6 | 3.3 | 109.7 | 261.9 | OK |
| 0.0 | -5.2 | -9.3 | 0.6 | 0.0 | -6.8 | -12.1 | 0.7 | 0.0 | 13.8 | OK | 46.6 | 0.3 | 46.6 | 261.9 | OK |
| 25.0 | 3.5 | -10.9 | 2.6 | 32.5 | 4.5 | -14.1 | 3.4 | 0.2 | 13.8 | OK | 53.6 | 1.6 | 53.7 | 261.9 | OK |
| 64.9 | 9.1 | -4.7 | 6.9 | 84.4 | 11.8 | -6.2 | 9.0 | 0.4 | 13.8 | OK | 25.5 | 4.1 | 26.5 | 261.9 | OK |
| 162.3 | 22.7 | -6.9 | 36.8 | 210.9 | 29.5 | -9.0 | 47.9 | 1.1 | 13.8 | OK | 40.0 | 22.1 | 55.4 | 261.9 | OK |
| 0.0 | -82.9 | -2.6 | -2.2 | 0.0 | -107.8 | -3.4 | -2.9 | 0.0 | 13.8 | OK | 36.0 | -1.3 | 36.0 | 261.9 | OK |
| 0.0 | -49.3 | -11.4 | 9.5 | 0.0 | -64.1 | -14.8 | 12.3 | 0.0 | 13.8 | OK | 68.8 | 5.7 | 69.5 | 261.9 | OK |
| 14.1 | 2.0 | -6.3 | 3.5 | 18.3 | 2.6 | -8.2 | 4.5 | 0.1 | 13.8 | OK | 31.2 | 2.1 | 31.4 | 261.9 | OK |
| 22.9 | 3.2 | -16.6 | -0.7 | 29.8 | 4.2 | -21.6 | -1.0 | 0.1 | 13.8 | OK | 81.3 | -0.4 | 81.3 | 261.9 | OK |
| 126.3 | 17.6 | -19.9 | 13.2 | 164.2 | 22.9 | -25.9 | 17.1 | 0.8 | 13.8 | OK | 101.4 | 7.9 | 102.3 | 261.9 | OK |
| 0.0 | -7.0 | -5.2 | 8.4 | 0.0 | -9.1 | -6.8 | 10.9 | 0.0 | 13.8 | OK | 27.3 | 5.1 | 28.6 | 261.9 | OK |
| 16.3 | 2.3 | 5.3 | -2.5 | 21.2 | 3.0 | 6.8 | -3.2 | 0.1 | 13.8 | OK | 26.1 | -1.5 | 26.3 | 261.9 | OK |
| 0.0 | -10.4 | 7.7 | -1.5 | 0.0 | -13.6 | 10.1 | -1.9 | 0.0 | 13.8 | OK | 40.4 | -0.9 | 40.5 | 261.9 | OK |
| 0.0 | -55.1 | 4.3 | 7.4 | 0.0 | -71.7 | 5.6 | 9.6 | 0.0 | 13.8 | OK | 36.4 | 4.4 | 37.2 | 261.9 | OK |
| 11.9 | 1.7 | -9.7 | -1.4 | 15.4 | 2.2 | -12.6 | -1.8 | 0.1 | 13.8 | OK | 47.6 | -0.8 | 47.6 | 261.9 | OK |
| 28.3 | 4.0 | -15.9 | -3.0 | 36.8 | 5.1 | -20.6 | -3.9 | 0.2 | 13.8 | OK | 78.0 | -1.8 | 78.0 | 261.9 | OK |
| 0.0 | -17.3 | 4.4 | -4.2 | 0.0 | -22.5 | 5.8 | -5.5 | 0.0 | 13.8 | OK | 26.3 | -2.5 | 26.6 | 261.9 | OK |
| 31.1 | 4.3 | -21.7 | -1.3 | 40.5 | 5.7 | -28.2 | -1.8 | 0.2 | 13.8 | OK | 106.3 | -0.8 | 106.3 | 261.9 | OK |
| 25.6 | 3.6 | -6.4 | 3.9 | 33.3 | 4.7 | -8.3 | 5.0 | 0.2 | 13.8 | OK | 31.8 | 2.3 | 32.1 | 261.9 | OK |
| 13.9 | 1.9 | 0.5 | -4.3 | 18.1 | 2.5 | 0.6 | -5.6 | 0.1 | 13.8 | OK | 2.9 | -2.6 | 5.4 | 261.9 | OK |
| 1.2 | 0.2 | 3.4 | -1.7 | 1.6 | 0.2 | 4.5 | -2.3 | 0.0 | 13.8 | OK | 16.8 | -1.0 | 16.9 | 261.9 | OK |
| 0.0 | -59.3 | -13.6 | 27.8 | 0.0 | -77.1 | -17.7 | 36.2 | 0.0 | 13.8 | OK | 82.4 | 16.7 | 87.3 | 261.9 | OK |
| 5.0 | 0.7 | 4.8 | -0.3 | 6.4 | 0.9 | 6.2 | -0.4 | 0.0 | 13.8 | OK | 23.4 | -0.2 | 23.4 | 261.9 | OK |
| 17.8 | 2.5 | 6.4 | -0.1 | 23.2 | 3.2 | 8.3 | -0.1 | 0.1 | 13.8 | OK | 31.5 | 0.0 | 31.5 | 261.9 | OK |
| 0.0 | -98.9 | -9.3 | 9.7 | 0.0 | -128.6 | -12.0 | 12.6 | 0.0 | 13.8 | OK | 72.5 | 5.8 | 73.2 | 261.9 | OK |
| 0.0 | -21.2 | -14.2 | 31.7 | 0.0 | -27.6 | -18.4 | 41.2 | 0.0 | 13.8 | OK | 74.5 | 19.0 | 81.5 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|--------|-------|-------|------|--------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 0.0 | -41.2 | 1.8 | 7.7 | 0.0 | -53.5 | 2.3 | 9.9 | 0.0 | 13.8 | OK | 20.1 | 4.6 | 21.6 | 261.9 | OK |
| 21.1 | 3.0 | 3.6 | -3.1 | 27.5 | 3.8 | 4.6 | -4.1 | 0.1 | 13.8 | OK | 18.0 | -1.9 | 18.3 | 261.9 | OK |
| 0.0 | -29.7 | 5.6 | -3.5 | 0.0 | -38.6 | 7.2 | -4.6 | 0.0 | 13.8 | OK | 35.2 | -2.1 | 35.4 | 261.9 | OK |
| 24.4 | 3.4 | -6.6 | -3.4 | 31.8 | 4.4 | -8.6 | -4.4 | 0.2 | 13.8 | OK | 33.0 | -2.0 | 33.2 | 261.9 | OK |
| 0.0 | -11.1 | -2.8 | -4.8 | 0.0 | -14.4 | -3.7 | -6.3 | 0.0 | 13.8 | OK | 16.8 | -2.9 | 17.5 | 261.9 | OK |
| 10.8 | 1.5 | -6.2 | -3.7 | 14.1 | 2.0 | -8.1 | -4.9 | 0.1 | 13.8 | OK | 30.4 | -2.2 | 30.7 | 261.9 | OK |
| 0.0 | -0.8 | -13.0 | -0.5 | 0.0 | -1.0 | -16.9 | -0.7 | 0.0 | 13.8 | OK | 63.4 | -0.3 | 63.4 | 261.9 | OK |
| 26.4 | 3.7 | -2.8 | -4.1 | 34.3 | 4.8 | -3.7 | -5.4 | 0.2 | 13.8 | OK | 14.8 | -2.5 | 15.4 | 261.9 | OK |
| 41.2 | 5.8 | -6.8 | -6.0 | 53.6 | 7.5 | -8.9 | -7.8 | 0.3 | 13.8 | OK | 34.7 | -3.6 | 35.3 | 261.9 | OK |
| 27.6 | 3.9 | -8.8 | -1.7 | 35.9 | 5.0 | -11.4 | -2.2 | 0.2 | 13.8 | OK | 43.7 | -1.0 | 43.7 | 261.9 | OK |
| 18.0 | 2.5 | -12.7 | -7.5 | 23.4 | 3.3 | -16.5 | -9.8 | 0.1 | 13.8 | OK | 62.0 | -4.5 | 62.5 | 261.9 | OK |
| 14.0 | 2.0 | -3.0 | -6.4 | 18.2 | 2.5 | -3.9 | -8.3 | 0.1 | 13.8 | OK | 15.1 | -3.8 | 16.5 | 261.9 | OK |
| 4.7 | 0.7 | -0.5 | -7.3 | 6.1 | 0.9 | -0.6 | -9.5 | 0.0 | 13.8 | OK | 2.5 | -4.4 | 8.0 | 261.9 | OK |
| 0.0 | -3.0 | -8.2 | -7.6 | 0.0 | -3.9 | -10.7 | -9.8 | 0.0 | 13.8 | OK | 40.8 | -4.5 | 41.6 | 261.9 | OK |
| 23.0 | 3.2 | -15.4 | -7.5 | 29.9 | 4.2 | -20.1 | -9.8 | 0.1 | 13.8 | OK | 75.7 | -4.5 | 76.1 | 261.9 | OK |
| 0.0 | -2.7 | 4.2 | 7.7 | 0.0 | -3.5 | 5.5 | 10.0 | 0.0 | 13.8 | OK | 21.3 | 4.6 | 22.7 | 261.9 | OK |
| 7.5 | 1.0 | 1.7 | 4.5 | 9.7 | 1.4 | 2.3 | 5.8 | 0.0 | 13.8 | OK | 8.7 | 2.7 | 9.9 | 261.9 | OK |
| 52.8 | 7.4 | -15.5 | 1.1 | 68.6 | 9.6 | -20.2 | 1.5 | 0.3 | 13.8 | OK | 77.2 | 0.7 | 77.2 | 261.9 | OK |
| 0.0 | -36.6 | 6.5 | 2.4 | 0.0 | -47.6 | 8.4 | 3.2 | 0.0 | 13.8 | OK | 41.6 | 1.5 | 41.6 | 261.9 | OK |
| 33.7 | 4.7 | 3.1 | -6.3 | 43.8 | 6.1 | 4.1 | -8.2 | 0.2 | 13.8 | OK | 16.5 | -3.8 | 17.8 | 261.9 | OK |
| 0.0 | -27.9 | 7.6 | 3.9 | 0.0 | -36.3 | 9.8 | 5.1 | 0.0 | 13.8 | OK | 44.5 | 2.4 | 44.7 | 261.9 | OK |
| 0.0 | -18.2 | -1.4 | -17.3 | 0.0 | -23.6 | -1.8 | -22.5 | 0.0 | 13.8 | OK | 12.0 | -10.4 | 21.6 | 261.9 | OK |
| 0.0 | -35.6 | 18.9 | 5.4 | 0.0 | -46.3 | 24.6 | 7.0 | 0.0 | 13.8 | OK | 101.7 | 3.2 | 101.9 | 261.9 | OK |
| 55.0 | 7.7 | -24.7 | 5.3 | 71.5 | 10.0 | -32.2 | 6.8 | 0.4 | 13.8 | OK | 122.0 | 3.2 | 122.1 | 261.9 | OK |
| 34.5 | 4.8 | -18.9 | 13.3 | 44.9 | 6.3 | -24.6 | 17.3 | 0.2 | 13.8 | OK | 93.1 | 8.0 | 94.1 | 261.9 | OK |
| 43.1 | 6.0 | -14.5 | 7.1 | 56.0 | 7.8 | -18.9 | 9.3 | 0.3 | 13.8 | OK | 72.0 | 4.3 | 72.4 | 261.9 | OK |
| 0.0 | -54.4 | 25.1 | -1.0 | 0.0 | -70.8 | 32.7 | -1.3 | 0.0 | 13.8 | OK | 137.0 | -0.6 | 137.0 | 261.9 | OK |
| 0.0 | -20.1 | 14.4 | -9.6 | 0.0 | -26.1 | 18.7 | -12.4 | 0.0 | 13.8 | OK | 75.2 | -5.7 | 75.9 | 261.9 | OK |
| 7.6 | 1.1 | -27.0 | -8.1 | 9.9 | 1.4 | -35.1 | -10.6 | 0.0 | 13.8 | OK | 131.2 | -4.9 | 131.5 | 261.9 | OK |
| 38.4 | 5.4 | -20.1 | -4.6 | 49.9 | 7.0 | -26.1 | -6.0 | 0.2 | 13.8 | OK | 98.9 | -2.7 | 99.1 | 261.9 | OK |
| 6.6 | 0.9 | -4.3 | 14.8 | 8.5 | 1.2 | -5.5 | 19.2 | 0.0 | 13.8 | OK | 20.9 | 8.9 | 25.9 | 261.9 | OK |
| 0.0 | -18.8 | 5.3 | 13.3 | 0.0 | -24.4 | 6.9 | 17.3 | 0.0 | 13.8 | OK | 30.8 | 8.0 | 33.8 | 261.9 | OK |
| 4.8 | 0.7 | 18.5 | 11.4 | 6.2 | 0.9 | 24.1 | 14.9 | 0.0 | 13.8 | OK | 90.1 | 6.9 | 90.8 | 261.9 | OK |
| 26.8 | 3.7 | -19.6 | 3.2 | 34.8 | 4.9 | -25.5 | 4.2 | 0.2 | 13.8 | OK | 95.9 | 1.9 | 96.0 | 261.9 | OK |
| 0.0 | -27.4 | 21.8 | -0.4 | 0.0 | -35.6 | 28.4 | -0.5 | 0.0 | 13.8 | OK | 113.3 | -0.2 | 113.3 | 261.9 | OK |
| 0.0 | -77.9 | 22.2 | 3.6 | 0.0 | -101.3 | 28.8 | 4.7 | 0.0 | 13.8 | OK | 129.3 | 2.2 | 129.3 | 261.9 | OK |
| 0.0 | -157.8 | -0.4 | -43.1 | 0.0 | -205.2 | -0.5 | -56.0 | 0.0 | 13.8 | OK | 46.0 | -25.8 | 64.2 | 261.9 | OK |
| 40.8 | 5.7 | -35.1 | -0.2 | 53.0 | 7.4 | -45.7 | -0.3 | 0.3 | 13.8 | OK | 171.8 | -0.1 | 171.8 | 261.9 | OK |
| 24.0 | 3.4 | -27.3 | 3.3 | 31.2 | 4.4 | -35.4 | 4.3 | 0.2 | 13.8 | OK | 133.0 | 2.0 | 133.0 | 261.9 | OK |
| 0.0 | -38.3 | 21.3 | 7.7 | 0.0 | -49.8 | 27.7 | 10.0 | 0.0 | 13.8 | OK | 114.1 | 4.6 | 114.4 | 261.9 | OK |
| 13.4 | 1.9 | 5.0 | 12.2 | 17.5 | 2.4 | 6.5 | 15.9 | 0.1 | 13.8 | OK | 24.7 | 7.3 | 27.7 | 261.9 | OK |
| 0.0 | -3.0 | 10.5 | 13.9 | 0.0 | -3.9 | 13.7 | 18.0 | 0.0 | 13.8 | OK | 51.9 | 8.3 | 53.9 | 261.9 | OK |
| 0.0 | -80.0 | -5.0 | -24.2 | 0.0 | -104.1 | -6.5 | -31.4 | 0.0 | 13.8 | OK | 46.4 | -14.5 | 52.8 | 261.9 | OK |
| 0.0 | -163.9 | -0.3 | -40.4 | 0.0 | -213.1 | -0.3 | -52.5 | 0.0 | 13.8 | OK | 47.1 | -24.3 | 63.1 | 261.9 | OK |
| 0.0 | -11.7 | 17.4 | 2.0 | 0.0 | -15.3 | 22.6 | 2.6 | 0.0 | 13.8 | OK | 87.6 | 1.2 | 87.6 | 261.9 | OK |
| 0.7 | 0.1 | 12.9 | 7.8 | 0.9 | 0.1 | 16.8 | 10.2 | 0.0 | 13.8 | OK | 62.6 | 4.7 | 63.1 | 261.9 | OK |
| 0.0 | -76.0 | 14.8 | -11.8 | 0.0 | -98.8 | 19.2 | -15.4 | 0.0 | 13.8 | OK | 92.8 | -7.1 | 93.6 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|-------|-------|-------|--------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 0.0 | -73.7 | 18.2 | -16.8 | 0.0 | -95.8 | 23.7 | -21.8 | 0.0 | 13.8 | OK | 108.9 | -10.1 | 110.3 | 261.9 | OK |
| 24.4 | 3.4 | -30.2 | 7.0 | 31.7 | 4.4 | -39.2 | 9.1 | 0.2 | 13.8 | OK | 147.2 | 4.2 | 147.4 | 261.9 | OK |
| 69.5 | 9.7 | -24.8 | 3.9 | 90.3 | 12.6 | -32.2 | 5.1 | 0.5 | 13.8 | OK | 122.8 | 2.3 | 122.9 | 261.9 | OK |
| 32.6 | 4.6 | -18.5 | 13.1 | 42.4 | 5.9 | -24.1 | 17.0 | 0.2 | 13.8 | OK | 91.1 | 7.8 | 92.1 | 261.9 | OK |
| 15.1 | 2.1 | -18.5 | 7.6 | 19.6 | 2.7 | -24.1 | 9.9 | 0.1 | 13.8 | OK | 90.4 | 4.6 | 90.7 | 261.9 | OK |
| 44.1 | 6.2 | -3.5 | 14.2 | 57.4 | 8.0 | -4.6 | 18.5 | 0.3 | 13.8 | OK | 18.8 | 8.5 | 23.9 | 261.9 | OK |
| 0.0 | -123.5 | 14.9 | -13.4 | 0.0 | -160.5 | 19.3 | -17.4 | 0.0 | 13.8 | OK | 106.5 | -8.0 | 107.4 | 261.9 | OK |
| 22.1 | 3.1 | -3.2 | 10.2 | 28.7 | 4.0 | -4.1 | 13.3 | 0.1 | 13.8 | OK | 16.2 | 6.1 | 19.3 | 261.9 | OK |
| 20.2 | 2.8 | 4.4 | 10.7 | 26.2 | 3.7 | 5.7 | 13.9 | 0.1 | 13.8 | OK | 22.1 | 6.4 | 24.8 | 261.9 | OK |
| 21.5 | 3.0 | -5.7 | 10.5 | 27.9 | 3.9 | -7.4 | 13.6 | 0.1 | 13.8 | OK | 28.5 | 6.3 | 30.5 | 261.9 | OK |
| 0.0 | -98.7 | -6.1 | -4.7 | 0.0 | -128.3 | -8.0 | -6.1 | 0.0 | 13.8 | OK | 57.3 | -2.8 | 57.5 | 261.9 | OK |
| 0.0 | -40.6 | -16.0 | -3.6 | 0.0 | -52.8 | -20.8 | -4.7 | 0.0 | 13.8 | OK | 88.7 | -2.2 | 88.8 | 261.9 | OK |
| 0.0 | -159.6 | -2.7 | -18.7 | 0.0 | -207.5 | -3.5 | -24.3 | 0.0 | 13.8 | OK | 57.7 | -11.2 | 60.9 | 261.9 | OK |
| 28.4 | 4.0 | -23.0 | -11.7 | 36.9 | 5.2 | -29.9 | -15.2 | 0.2 | 13.8 | OK | 112.6 | -7.0 | 113.3 | 261.9 | OK |
| 0.6 | 0.1 | -14.3 | -9.1 | 0.8 | 0.1 | -18.6 | -11.9 | 0.0 | 13.8 | OK | 69.4 | -5.5 | 70.1 | 261.9 | OK |
| 8.1 | 1.1 | -21.8 | -1.6 | 10.5 | 1.5 | -28.4 | -2.1 | 0.1 | 13.8 | OK | 106.1 | -1.0 | 106.1 | 261.9 | OK |
| 1.2 | 0.2 | -3.3 | -7.4 | 1.6 | 0.2 | -4.3 | -9.6 | 0.0 | 13.8 | OK | 16.2 | -4.4 | 18.0 | 261.9 | OK |
| 0.0 | -29.5 | -5.0 | -20.6 | 0.0 | -38.4 | -6.5 | -26.8 | 0.0 | 13.8 | OK | 32.5 | -12.4 | 38.9 | 261.9 | OK |
| 0.0 | -108.6 | 2.9 | 5.2 | 0.0 | -141.2 | 3.7 | 6.7 | 0.0 | 13.8 | OK | 44.3 | 3.1 | 44.6 | 261.9 | OK |
| 0.0 | -23.0 | -22.1 | -13.3 | 0.0 | -29.9 | -28.7 | -17.2 | 0.0 | 13.8 | OK | 113.5 | -8.0 | 114.3 | 261.9 | OK |
| 38.9 | 5.4 | -32.9 | -6.3 | 50.5 | 7.1 | -42.8 | -8.2 | 0.3 | 13.8 | OK | 161.1 | -3.8 | 161.3 | 261.9 | OK |
| 25.3 | 3.5 | -15.7 | -13.6 | 32.9 | 4.6 | -20.4 | -17.7 | 0.2 | 13.8 | OK | 77.0 | -8.1 | 78.3 | 261.9 | OK |
| 123.7 | 17.3 | -52.3 | -6.0 | 160.9 | 22.5 | -67.9 | -7.8 | 0.8 | 13.8 | OK | 258.0 | -3.6 | 258.1 | 261.9 | OK |
| 32.8 | 4.6 | -0.7 | -13.4 | 42.7 | 6.0 | -0.9 | -17.4 | 0.2 | 13.8 | OK | 4.5 | -8.0 | 14.6 | 261.9 | OK |
| 0.0 | -95.5 | 1.9 | 13.2 | 0.0 | -124.2 | 2.4 | 17.2 | 0.0 | 13.8 | OK | 35.7 | 8.0 | 38.3 | 261.9 | OK |
| 0.0 | -77.7 | 16.4 | -1.7 | 0.0 | -101.0 | 21.4 | -2.3 | 0.0 | 13.8 | OK | 101.4 | -1.0 | 101.4 | 261.9 | OK |
| 0.0 | -19.1 | 1.3 | -5.0 | 0.0 | -24.8 | 1.7 | -6.5 | 0.0 | 13.8 | OK | 11.7 | -3.0 | 12.8 | 261.9 | OK |
| 106.5 | 14.9 | -30.8 | 11.1 | 138.5 | 19.3 | -40.0 | 14.5 | 0.7 | 13.8 | OK | 153.1 | 6.7 | 153.6 | 261.9 | OK |
| 148.0 | 20.7 | -27.1 | -23.0 | 192.4 | 26.9 | -35.2 | -29.9 | 1.0 | 13.8 | OK | 137.0 | -13.8 | 139.1 | 261.9 | OK |
| 28.6 | 4.0 | -36.1 | -30.1 | 37.2 | 5.2 | -47.0 | -39.2 | 0.2 | 13.8 | OK | 176.2 | -18.1 | 178.9 | 261.9 | OK |
| 87.6 | 12.2 | -23.8 | -54.0 | 113.8 | 15.9 | -31.0 | -70.2 | 0.6 | 13.8 | OK | 118.9 | -32.4 | 131.5 | 261.9 | OK |
| 0.0 | -55.4 | 14.6 | 2.4 | 0.0 | -72.0 | 19.0 | 3.1 | 0.0 | 13.8 | OK | 86.3 | 1.4 | 86.3 | 261.9 | OK |
| 0.0 | -87.1 | 3.8 | 6.4 | 0.0 | -113.2 | 5.0 | 8.3 | 0.0 | 13.8 | OK | 42.9 | 3.8 | 43.4 | 261.9 | OK |
| 0.0 | -29.7 | -10.3 | 45.2 | 0.0 | -38.6 | -13.4 | 58.8 | 0.0 | 13.8 | OK | 58.2 | 27.1 | 74.8 | 261.9 | OK |
| 124.3 | 17.4 | -37.4 | -7.3 | 161.6 | 22.6 | -48.6 | -9.5 | 0.8 | 13.8 | OK | 186.0 | -4.4 | 186.1 | 261.9 | OK |
| 0.0 | -116.1 | 13.5 | -16.8 | 0.0 | -151.0 | 17.5 | -21.8 | 0.0 | 13.8 | OK | 97.8 | -10.1 | 99.3 | 261.9 | OK |
| 103.6 | 14.5 | 11.0 | -4.0 | 134.7 | 18.8 | 14.3 | -5.2 | 0.7 | 13.8 | OK | 57.5 | -2.4 | 57.6 | 261.9 | OK |
| 52.6 | 7.4 | 16.6 | -2.9 | 68.4 | 9.6 | 21.6 | -3.7 | 0.3 | 13.8 | OK | 82.6 | -1.7 | 82.7 | 261.9 | OK |
| 23.4 | 3.3 | 8.5 | 10.6 | 30.4 | 4.3 | 11.1 | 13.8 | 0.2 | 13.8 | OK | 42.2 | 6.4 | 43.6 | 261.9 | OK |
| 97.4 | 13.6 | -30.1 | 14.8 | 126.7 | 17.7 | -39.1 | 19.3 | 0.6 | 13.8 | OK | 149.5 | 8.9 | 150.2 | 261.9 | OK |
| 54.1 | 7.6 | 14.4 | 4.9 | 70.3 | 9.8 | 18.7 | 6.4 | 0.4 | 13.8 | OK | 71.6 | 2.9 | 71.8 | 261.9 | OK |
| 0.0 | -80.1 | 13.6 | 0.8 | 0.0 | -104.2 | 17.6 | 1.1 | 0.0 | 13.8 | OK | 88.1 | 0.5 | 88.1 | 261.9 | OK |
| 34.8 | 4.9 | 16.9 | 3.7 | 45.3 | 6.3 | 21.9 | 4.8 | 0.2 | 13.8 | OK | 83.2 | 2.2 | 83.2 | 261.9 | OK |
| 44.8 | 6.3 | -15.3 | 18.0 | 58.3 | 8.1 | -19.9 | 23.5 | 0.3 | 13.8 | OK | 76.1 | 10.8 | 78.4 | 261.9 | OK |
| 0.0 | -18.8 | -7.5 | 11.0 | 0.0 | -24.4 | -9.7 | 14.3 | 0.0 | 13.8 | OK | 41.5 | 6.6 | 43.0 | 261.9 | OK |
| 0.0 | -61.4 | 12.5 | 2.3 | 0.0 | -79.9 | 16.3 | 3.0 | 0.0 | 13.8 | OK | 77.8 | 1.4 | 77.8 | 261.9 | OK |
| 0.0 | -13.1 | -31.8 | 16.0 | 0.0 | -17.0 | -41.4 | 20.8 | 0.0 | 13.8 | OK | 158.0 | 9.6 | 158.8 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|--------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 92.6 | 12.9 | -43.8 | 8.0 | 120.4 | 16.8 | -57.0 | 10.4 | 0.6 | 13.8 | OK | 216.1 | 4.8 | 216.2 | 261.9 | OK |
| 52.9 | 7.4 | -1.1 | 15.1 | 68.8 | 9.6 | -1.4 | 19.6 | 0.3 | 13.8 | OK | 7.3 | 9.0 | 17.3 | 261.9 | OK |
| 129.7 | 18.1 | -38.6 | 4.5 | 168.7 | 23.6 | -50.2 | 5.9 | 0.8 | 13.8 | OK | 192.3 | 2.7 | 192.3 | 261.9 | OK |
| 0.0 | -19.8 | -22.5 | -3.1 | 0.0 | -25.8 | -29.2 | -4.0 | 0.0 | 13.8 | OK | 114.5 | -1.8 | 114.5 | 261.9 | OK |
| 0.0 | -35.7 | -5.6 | 2.1 | 0.0 | -46.4 | -7.2 | 2.7 | 0.0 | 13.8 | OK | 37.0 | 1.2 | 37.0 | 261.9 | OK |
| 39.1 | 5.5 | -10.2 | -11.5 | 50.9 | 7.1 | -13.2 | -15.0 | 0.3 | 13.8 | OK | 50.7 | -6.9 | 52.1 | 261.9 | OK |
| 17.1 | 2.4 | 3.0 | -4.5 | 22.2 | 3.1 | 3.9 | -5.8 | 0.1 | 13.8 | OK | 15.2 | -2.7 | 15.9 | 261.9 | OK |
| 0.0 | -14.5 | -4.4 | 4.0 | 0.0 | -18.9 | -5.7 | 5.2 | 0.0 | 13.8 | OK | 25.3 | 2.4 | 25.7 | 261.9 | OK |
| 56.8 | 7.9 | -0.8 | -0.2 | 73.8 | 10.3 | -1.0 | -0.2 | 0.4 | 13.8 | OK | 5.9 | -0.1 | 5.9 | 261.9 | OK |
| 62.6 | 8.7 | 5.3 | -10.0 | 81.4 | 11.4 | 6.9 | -12.9 | 0.4 | 13.8 | OK | 28.1 | -6.0 | 29.9 | 261.9 | OK |
| 11.4 | 1.6 | -6.4 | -6.7 | 14.8 | 2.1 | -8.3 | -8.7 | 0.1 | 13.8 | OK | 31.4 | -4.0 | 32.2 | 261.9 | OK |
| 64.9 | 9.1 | 2.5 | 0.9 | 84.4 | 11.8 | 3.2 | 1.2 | 0.4 | 13.8 | OK | 14.6 | 0.6 | 14.6 | 261.9 | OK |
| 92.5 | 12.9 | 0.0 | -4.9 | 120.3 | 16.8 | 0.0 | -6.4 | 0.6 | 13.8 | OK | 3.7 | -3.0 | 6.3 | 261.9 | OK |
| 0.0 | -5.2 | 6.8 | -4.5 | 0.0 | -6.8 | 8.9 | -5.8 | 0.0 | 13.8 | OK | 34.5 | -2.7 | 34.8 | 261.9 | OK |
| 96.4 | 13.5 | -19.7 | -6.8 | 125.3 | 17.5 | -25.7 | -8.8 | 0.6 | 13.8 | OK | 99.4 | -4.1 | 99.7 | 261.9 | OK |
| 97.3 | 13.6 | -2.2 | 0.7 | 126.5 | 17.7 | -2.8 | 0.9 | 0.6 | 13.8 | OK | 14.4 | 0.4 | 14.4 | 261.9 | OK |
| 0.0 | -53.0 | 7.9 | 5.7 | 0.0 | -68.9 | 10.2 | 7.4 | 0.0 | 13.8 | OK | 53.0 | 3.4 | 53.3 | 261.9 | OK |
| 0.0 | -94.0 | 2.9 | -10.0 | 0.0 | -122.2 | 3.8 | -12.9 | 0.0 | 13.8 | OK | 40.3 | -6.0 | 41.6 | 261.9 | OK |
| 52.8 | 7.4 | -1.4 | -10.0 | 68.6 | 9.6 | -1.8 | -13.0 | 0.3 | 13.8 | OK | 8.7 | -6.0 | 13.5 | 261.9 | OK |
| 98.7 | 13.8 | -22.4 | 4.2 | 128.3 | 17.9 | -29.1 | 5.5 | 0.6 | 13.8 | OK | 112.2 | 2.5 | 112.3 | 261.9 | OK |
| 91.7 | 12.8 | -4.3 | 10.1 | 119.2 | 16.6 | -5.5 | 13.2 | 0.6 | 13.8 | OK | 24.2 | 6.1 | 26.4 | 261.9 | OK |
| 50.8 | 7.1 | -14.5 | 9.2 | 66.1 | 9.2 | -18.9 | 12.0 | 0.3 | 13.8 | OK | 72.3 | 5.5 | 72.9 | 261.9 | OK |
| 42.0 | 5.9 | -27.5 | 5.0 | 54.6 | 7.6 | -35.7 | 6.5 | 0.3 | 13.8 | OK | 134.9 | 3.0 | 135.0 | 261.9 | OK |
| 106.3 | 14.9 | -21.2 | 4.1 | 138.2 | 19.3 | -27.6 | 5.3 | 0.7 | 13.8 | OK | 107.0 | 2.4 | 107.0 | 261.9 | OK |
| 0.0 | -1.6 | -26.7 | 4.3 | 0.0 | -2.1 | -34.7 | 5.6 | 0.0 | 13.8 | OK | 129.7 | 2.6 | 129.8 | 261.9 | OK |
| 46.9 | 6.6 | -16.8 | -1.6 | 61.0 | 8.5 | -21.9 | -2.1 | 0.3 | 13.8 | OK | 83.4 | -1.0 | 83.4 | 261.9 | OK |
| 0.0 | -15.6 | -13.8 | 5.4 | 0.0 | -20.3 | -17.9 | 7.0 | 0.0 | 13.8 | OK | 71.2 | 3.2 | 71.5 | 261.9 | OK |
| 34.5 | 4.8 | -4.8 | 6.9 | 44.9 | 6.3 | -6.2 | 8.9 | 0.2 | 13.8 | OK | 24.5 | 4.1 | 25.5 | 261.9 | OK |
| 0.0 | -47.3 | -10.1 | 16.2 | 0.0 | -61.5 | -13.1 | 21.0 | 0.0 | 13.8 | OK | 62.0 | 9.7 | 64.3 | 261.9 | OK |
| 128.8 | 18.0 | -4.9 | 12.1 | 167.5 | 23.4 | -6.4 | 15.7 | 0.8 | 13.8 | OK | 28.8 | 7.3 | 31.4 | 261.9 | OK |
| 0.0 | -52.2 | -15.7 | 11.9 | 0.0 | -67.9 | -20.4 | 15.4 | 0.0 | 13.8 | OK | 90.8 | 7.1 | 91.6 | 261.9 | OK |
| 129.5 | 18.1 | -13.6 | 2.4 | 168.3 | 23.5 | -17.7 | 3.2 | 0.8 | 13.8 | OK | 70.9 | 1.5 | 71.0 | 261.9 | OK |
| 20.9 | 2.9 | -22.2 | 0.4 | 27.2 | 3.8 | -28.9 | 0.6 | 0.1 | 13.8 | OK | 108.5 | 0.3 | 108.5 | 261.9 | OK |
| 24.5 | 3.4 | -22.3 | 11.9 | 31.9 | 4.5 | -29.0 | 15.5 | 0.2 | 13.8 | OK | 109.2 | 7.1 | 109.9 | 261.9 | OK |
| 23.1 | 3.2 | -6.7 | 10.7 | 30.0 | 4.2 | -8.7 | 13.9 | 0.2 | 13.8 | OK | 33.3 | 6.4 | 35.1 | 261.9 | OK |
| 41.4 | 5.8 | 3.2 | 0.0 | 53.8 | 7.5 | 4.2 | 0.0 | 0.3 | 13.8 | OK | 17.1 | 0.0 | 17.1 | 261.9 | OK |
| 0.0 | -19.3 | 2.0 | 4.3 | 0.0 | -25.1 | 2.6 | 5.5 | 0.0 | 13.8 | OK | 15.1 | 2.6 | 15.7 | 261.9 | OK |
| 0.0 | -16.7 | 0.5 | 2.4 | 0.0 | -21.7 | 0.7 | 3.1 | 0.0 | 13.8 | OK | 7.1 | 1.4 | 7.6 | 261.9 | OK |
| 52.2 | 7.3 | -15.2 | -5.8 | 67.8 | 9.5 | -19.8 | -7.5 | 0.3 | 13.8 | OK | 75.8 | -3.5 | 76.0 | 261.9 | OK |
| 20.0 | 2.8 | -18.8 | -3.8 | 26.0 | 3.6 | -24.4 | -4.9 | 0.1 | 13.8 | OK | 91.9 | -2.3 | 92.0 | 261.9 | OK |
| 0.0 | -57.6 | 4.8 | 3.5 | 0.0 | -74.9 | 6.2 | 4.5 | 0.0 | 13.8 | OK | 39.3 | 2.1 | 39.5 | 261.9 | OK |
| 16.7 | 2.3 | -22.7 | -3.5 | 21.7 | 3.0 | -29.6 | -4.5 | 0.1 | 13.8 | OK | 110.8 | -2.1 | 110.9 | 261.9 | OK |
| 100.0 | 14.0 | -2.4 | -2.7 | 130.0 | 18.2 | -3.1 | -3.5 | 0.6 | 13.8 | OK | 15.5 | -1.6 | 15.7 | 261.9 | OK |
| 18.3 | 2.6 | 2.7 | -4.1 | 23.8 | 3.3 | 3.4 | -5.3 | 0.1 | 13.8 | OK | 13.6 | -2.5 | 14.2 | 261.9 | OK |
| 0.0 | -26.8 | 4.4 | 1.6 | 0.0 | -34.9 | 5.7 | 2.1 | 0.0 | 13.8 | OK | 28.9 | 1.0 | 29.0 | 261.9 | OK |
| 7.7 | 1.1 | -1.0 | 4.9 | 10.0 | 1.4 | -1.4 | 6.4 | 0.0 | 13.8 | OK | 5.3 | 2.9 | 7.4 | 261.9 | OK |
| 30.3 | 4.2 | 3.4 | -1.2 | 39.5 | 5.5 | 4.4 | -1.6 | 0.2 | 13.8 | OK | 17.7 | -0.7 | 17.8 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|--------|-------|-------|-------|--------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 79.7 | 11.1 | 1.4 | 1.9 | 103.7 | 14.5 | 1.8 | 2.5 | 0.5 | 13.8 | OK | 9.7 | 1.2 | 9.9 | 261.9 | OK |
| 0.0 | -128.8 | 1.6 | -1.5 | 0.0 | -167.4 | 2.1 | -2.0 | 0.0 | 13.8 | OK | 43.7 | -0.9 | 43.7 | 261.9 | OK |
| 72.6 | 10.1 | -2.6 | 4.5 | 94.3 | 13.2 | -3.3 | 5.9 | 0.5 | 13.8 | OK | 15.2 | 2.7 | 15.9 | 261.9 | OK |
| 0.0 | -16.6 | -1.3 | -0.8 | 0.0 | -21.6 | -1.7 | -1.1 | 0.0 | 13.8 | OK | 10.8 | -0.5 | 10.8 | 261.9 | OK |
| 46.2 | 6.5 | 3.7 | -1.0 | 60.0 | 8.4 | 4.8 | -1.3 | 0.3 | 13.8 | OK | 19.7 | -0.6 | 19.7 | 261.9 | OK |
| 0.0 | -52.7 | 3.4 | 2.0 | 0.0 | -68.4 | 4.4 | 2.7 | 0.0 | 13.8 | OK | 31.3 | 1.2 | 31.4 | 261.9 | OK |
| 0.0 | -5.5 | -2.4 | -3.0 | 0.0 | -7.1 | -3.1 | -3.9 | 0.0 | 13.8 | OK | 13.2 | -1.8 | 13.5 | 261.9 | OK |
| 0.0 | -60.9 | 1.5 | -4.6 | 0.0 | -79.1 | 2.0 | -5.9 | 0.0 | 13.8 | OK | 24.5 | -2.7 | 24.9 | 261.9 | OK |
| 20.1 | 2.8 | -5.0 | -7.5 | 26.2 | 3.7 | -6.5 | -9.7 | 0.1 | 13.8 | OK | 24.9 | -4.5 | 26.1 | 261.9 | OK |
| 0.0 | -42.4 | -13.1 | -4.7 | 0.0 | -55.1 | -17.0 | -6.1 | 0.0 | 13.8 | OK | 75.1 | -2.8 | 75.3 | 261.9 | OK |
| 41.1 | 5.7 | 0.0 | -5.8 | 53.4 | 7.5 | 0.0 | -7.6 | 0.3 | 13.8 | OK | 1.7 | -3.5 | 6.3 | 261.9 | OK |
| 59.3 | 8.3 | -2.8 | -10.3 | 77.1 | 10.8 | -3.6 | -13.4 | 0.4 | 13.8 | OK | 15.9 | -6.2 | 19.2 | 261.9 | OK |
| 54.2 | 7.6 | -10.9 | -6.6 | 70.5 | 9.9 | -14.2 | -8.6 | 0.4 | 13.8 | OK | 55.2 | -4.0 | 55.6 | 261.9 | OK |
| 26.1 | 3.7 | -12.6 | -10.8 | 34.0 | 4.7 | -16.4 | -14.0 | 0.2 | 13.8 | OK | 62.3 | -6.5 | 63.3 | 261.9 | OK |
| 16.1 | 2.3 | 1.2 | -5.0 | 20.9 | 2.9 | 1.5 | -6.5 | 0.1 | 13.8 | OK | 6.3 | -3.0 | 8.1 | 261.9 | OK |
| 0.0 | -34.6 | 5.8 | -3.7 | 0.0 | -45.0 | 7.5 | -4.8 | 0.0 | 13.8 | OK | 37.6 | -2.2 | 37.8 | 261.9 | OK |
| 0.0 | -49.5 | -0.9 | -6.5 | 0.0 | -64.4 | -1.2 | -8.4 | 0.0 | 13.8 | OK | 18.3 | -3.9 | 19.5 | 261.9 | OK |
| 4.1 | 0.6 | -12.2 | -11.0 | 5.4 | 0.7 | -15.9 | -14.3 | 0.0 | 13.8 | OK | 59.3 | -6.6 | 60.4 | 261.9 | OK |
| 73.6 | 10.3 | 0.4 | -0.2 | 95.7 | 13.4 | 0.5 | -0.2 | 0.5 | 13.8 | OK | 4.9 | -0.1 | 4.9 | 261.9 | OK |
| 54.7 | 7.6 | 2.2 | 1.7 | 71.1 | 9.9 | 2.9 | 2.2 | 0.4 | 13.8 | OK | 12.9 | 1.0 | 13.0 | 261.9 | OK |
| 76.1 | 10.6 | -18.4 | -3.6 | 98.9 | 13.8 | -24.0 | -4.7 | 0.5 | 13.8 | OK | 92.3 | -2.2 | 92.4 | 261.9 | OK |
| 0.0 | -19.0 | 1.5 | 2.1 | 0.0 | -24.6 | 1.9 | 2.7 | 0.0 | 13.8 | OK | 12.4 | 1.2 | 12.6 | 261.9 | OK |
| 58.6 | 8.2 | 4.2 | -2.6 | 76.2 | 10.6 | 5.4 | -3.4 | 0.4 | 13.8 | OK | 22.6 | -1.6 | 22.7 | 261.9 | OK |
| 0.0 | -20.1 | -0.5 | 4.2 | 0.0 | -26.2 | -0.6 | 5.5 | 0.0 | 13.8 | OK | 8.0 | 2.5 | 9.1 | 261.9 | OK |
| 41.9 | 5.9 | 6.1 | -12.2 | 54.5 | 7.6 | 7.9 | -15.9 | 0.3 | 13.8 | OK | 31.2 | -7.3 | 33.7 | 261.9 | OK |
| 0.0 | -61.4 | 19.5 | 4.8 | 0.0 | -79.9 | 25.4 | 6.2 | 0.0 | 13.8 | OK | 111.7 | 2.9 | 111.8 | 261.9 | OK |
| 60.4 | 8.4 | -31.5 | 7.7 | 78.5 | 11.0 | -40.9 | 10.0 | 0.4 | 13.8 | OK | 154.9 | 4.6 | 155.1 | 261.9 | OK |
| 6.4 | 0.9 | -16.7 | 18.4 | 8.3 | 1.2 | -21.7 | 23.9 | 0.0 | 13.8 | OK | 81.2 | 11.0 | 83.4 | 261.9 | OK |
| 66.5 | 9.3 | -19.1 | 13.5 | 86.4 | 12.1 | -24.9 | 17.6 | 0.4 | 13.8 | OK | 95.3 | 8.1 | 96.3 | 261.9 | OK |
| 0.0 | -54.7 | 21.0 | -0.4 | 0.0 | -71.2 | 27.3 | -0.6 | 0.0 | 13.8 | OK | 117.1 | -0.3 | 117.1 | 261.9 | OK |
| 23.8 | 3.3 | 17.3 | -7.0 | 31.0 | 4.3 | 22.5 | -9.1 | 0.2 | 13.8 | OK | 84.7 | -4.2 | 85.0 | 261.9 | OK |
| 0.0 | -1.9 | -39.1 | -7.1 | 0.0 | -2.4 | -50.9 | -9.2 | 0.0 | 13.8 | OK | 190.1 | -4.3 | 190.3 | 261.9 | OK |
| 81.8 | 11.4 | -33.3 | -1.6 | 106.3 | 14.9 | -43.3 | -2.1 | 0.5 | 13.8 | OK | 164.4 | -1.0 | 164.4 | 261.9 | OK |
| 0.0 | -48.3 | -0.4 | 14.1 | 0.0 | -62.8 | -0.5 | 18.3 | 0.0 | 13.8 | OK | 15.5 | 8.5 | 21.3 | 261.9 | OK |
| 0.0 | -65.4 | 7.7 | 12.7 | 0.0 | -85.0 | 10.1 | 16.5 | 0.0 | 13.8 | OK | 55.8 | 7.6 | 57.3 | 261.9 | OK |
| 39.6 | 5.5 | 19.3 | 8.3 | 51.5 | 7.2 | 25.1 | 10.8 | 0.3 | 13.8 | OK | 95.0 | 5.0 | 95.4 | 261.9 | OK |
| 54.5 | 7.6 | -29.1 | 8.6 | 70.8 | 9.9 | -37.8 | 11.1 | 0.4 | 13.8 | OK | 143.1 | 5.1 | 143.4 | 261.9 | OK |
| 20.8 | 2.9 | 21.1 | 1.5 | 27.1 | 3.8 | 27.4 | 1.9 | 0.1 | 13.8 | OK | 103.1 | 0.9 | 103.1 | 261.9 | OK |
| 0.0 | -90.2 | 21.3 | 0.9 | 0.0 | -117.2 | 27.7 | 1.2 | 0.0 | 13.8 | OK | 128.5 | 0.6 | 128.5 | 261.9 | OK |
| 0.0 | -83.9 | 8.3 | -24.1 | 0.0 | -109.1 | 10.8 | -31.4 | 0.0 | 13.8 | OK | 63.8 | -14.5 | 68.6 | 261.9 | OK |
| 38.2 | 5.3 | -45.7 | 1.6 | 49.7 | 6.9 | -59.4 | 2.1 | 0.2 | 13.8 | OK | 222.7 | 1.0 | 222.7 | 261.9 | OK |
| 76.2 | 10.6 | -38.8 | 4.4 | 99.1 | 13.8 | -50.4 | 5.7 | 0.5 | 13.8 | OK | 191.0 | 2.6 | 191.0 | 261.9 | OK |
| 0.0 | -68.4 | 18.8 | 3.5 | 0.0 | -89.0 | 24.4 | 4.6 | 0.0 | 13.8 | OK | 110.0 | 2.1 | 110.1 | 261.9 | OK |
| 22.0 | 3.1 | 7.4 | 12.1 | 28.6 | 4.0 | 9.6 | 15.7 | 0.1 | 13.8 | OK | 36.5 | 7.2 | 38.6 | 261.9 | OK |
| 0.0 | -41.7 | 13.0 | 10.9 | 0.0 | -54.2 | 16.9 | 14.2 | 0.0 | 13.8 | OK | 74.7 | 6.6 | 75.5 | 261.9 | OK |
| 0.0 | -98.5 | 7.1 | -14.9 | 0.0 | -128.0 | 9.2 | -19.3 | 0.0 | 13.8 | OK | 62.0 | -8.9 | 63.9 | 261.9 | OK |
| 0.0 | -103.7 | 8.8 | -17.6 | 0.0 | -134.8 | 11.4 | -22.9 | 0.0 | 13.8 | OK | 71.4 | -10.6 | 73.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|-------|-------|-------|--------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 21.1 | 3.0 | 20.8 | 1.2 | 27.5 | 3.8 | 27.1 | 1.6 | 0.1 | 13.8 | OK | 101.8 | 0.7 | 101.8 | 261.9 | OK |
| 7.8 | 1.1 | 16.6 | 9.1 | 10.2 | 1.4 | 21.5 | 11.8 | 0.1 | 13.8 | OK | 80.6 | 5.5 | 81.2 | 261.9 | OK |
| 0.0 | -0.4 | 17.0 | -5.5 | 0.0 | -0.5 | 22.2 | -7.2 | 0.0 | 13.8 | OK | 82.7 | -3.3 | 82.9 | 261.9 | OK |
| 0.0 | -75.7 | 19.2 | -8.8 | 0.0 | -98.4 | 24.9 | -11.4 | 0.0 | 13.8 | OK | 114.0 | -5.3 | 114.4 | 261.9 | OK |
| 11.6 | 1.6 | -34.1 | 10.7 | 15.1 | 2.1 | -44.3 | 14.0 | 0.1 | 13.8 | OK | 165.6 | 6.4 | 166.0 | 261.9 | OK |
| 122.4 | 17.1 | -31.7 | 11.7 | 159.1 | 22.2 | -41.2 | 15.2 | 0.8 | 13.8 | OK | 158.5 | 7.0 | 159.0 | 261.9 | OK |
| 51.0 | 7.1 | -21.4 | 18.0 | 66.3 | 9.3 | -27.8 | 23.4 | 0.3 | 13.8 | OK | 105.5 | 10.8 | 107.2 | 261.9 | OK |
| 0.0 | -14.7 | -21.2 | 14.0 | 0.0 | -19.1 | -27.5 | 18.2 | 0.0 | 13.8 | OK | 106.7 | 8.4 | 107.7 | 261.9 | OK |
| 60.8 | 8.5 | -1.2 | 18.6 | 79.0 | 11.0 | -1.5 | 24.2 | 0.4 | 13.8 | OK | 8.0 | 11.2 | 21.0 | 261.9 | OK |
| 0.0 | -95.1 | 17.4 | -8.0 | 0.0 | -123.7 | 22.6 | -10.4 | 0.0 | 13.8 | OK | 111.0 | -4.8 | 111.3 | 261.9 | OK |
| 0.0 | -9.7 | -0.7 | 11.2 | 0.0 | -12.6 | -0.9 | 14.5 | 0.0 | 13.8 | OK | 6.2 | 6.7 | 13.2 | 261.9 | OK |
| 33.5 | 4.7 | 7.3 | 13.4 | 43.6 | 6.1 | 9.5 | 17.4 | 0.2 | 13.8 | OK | 36.6 | 8.0 | 39.2 | 261.9 | OK |
| 28.0 | 3.9 | -5.8 | 15.7 | 36.4 | 5.1 | -7.6 | 20.4 | 0.2 | 13.8 | OK | 29.4 | 9.4 | 33.6 | 261.9 | OK |
| 0.0 | -13.4 | -19.1 | -10.7 | 0.0 | -17.4 | -24.8 | -13.9 | 0.0 | 13.8 | OK | 96.1 | -6.4 | 96.8 | 261.9 | OK |
| 17.5 | 2.4 | -24.2 | -12.0 | 22.7 | 3.2 | -31.5 | -15.6 | 0.1 | 13.8 | OK | 118.0 | -7.2 | 118.7 | 261.9 | OK |
| 0.0 | -47.8 | -0.3 | -13.1 | 0.0 | -62.1 | -0.4 | -17.0 | 0.0 | 13.8 | OK | 14.9 | -7.8 | 20.2 | 261.9 | OK |
| 0.0 | -59.0 | -33.4 | -16.8 | 0.0 | -76.6 | -43.4 | -21.8 | 0.0 | 13.8 | OK | 178.1 | -10.1 | 178.9 | 261.9 | OK |
| 46.8 | 6.5 | -28.6 | -8.6 | 60.8 | 8.5 | -37.2 | -11.1 | 0.3 | 13.8 | OK | 140.4 | -5.1 | 140.7 | 261.9 | OK |
| 42.2 | 5.9 | -32.7 | -5.3 | 54.8 | 7.7 | -42.5 | -6.8 | 0.3 | 13.8 | OK | 160.1 | -3.2 | 160.2 | 261.9 | OK |
| 0.0 | -32.5 | -1.5 | -3.9 | 0.0 | -42.2 | -1.9 | -5.1 | 0.0 | 13.8 | OK | 16.2 | -2.3 | 16.7 | 261.9 | OK |
| 0.0 | -35.4 | -8.0 | -24.8 | 0.0 | -46.0 | -10.5 | -32.2 | 0.0 | 13.8 | OK | 48.8 | -14.9 | 55.2 | 261.9 | OK |
| 119.7 | 16.7 | -5.9 | -14.4 | 155.7 | 21.7 | -7.7 | -18.7 | 0.8 | 13.8 | OK | 33.4 | -8.6 | 36.6 | 261.9 | OK |
| 0.0 | -0.8 | -33.6 | -16.5 | 0.0 | -1.0 | -43.6 | -21.5 | 0.0 | 13.8 | OK | 162.8 | -9.9 | 163.7 | 261.9 | OK |
| 10.1 | 1.4 | -45.3 | -9.3 | 13.2 | 1.8 | -58.9 | -12.1 | 0.1 | 13.8 | OK | 219.9 | -5.6 | 220.1 | 261.9 | OK |
| 77.7 | 10.9 | -23.4 | -17.0 | 101.0 | 14.1 | -30.4 | -22.0 | 0.5 | 13.8 | OK | 116.2 | -10.2 | 117.6 | 261.9 | OK |
| 51.6 | 7.2 | -17.9 | -9.5 | 67.0 | 9.4 | -23.2 | -12.3 | 0.3 | 13.8 | OK | 88.6 | -5.7 | 89.2 | 261.9 | OK |
| 27.5 | 3.8 | -19.0 | 0.1 | 35.7 | 5.0 | -24.7 | 0.2 | 0.2 | 13.8 | OK | 93.3 | 0.1 | 93.3 | 261.9 | OK |
| 0.0 | -158.0 | 1.8 | 6.3 | 0.0 | -205.4 | 2.4 | 8.2 | 0.0 | 13.8 | OK | 53.0 | 3.8 | 53.4 | 261.9 | OK |
| 63.9 | 8.9 | -3.2 | -7.2 | 83.1 | 11.6 | -4.2 | -9.4 | 0.4 | 13.8 | OK | 18.2 | -4.3 | 19.7 | 261.9 | OK |
| 0.0 | -61.3 | -2.5 | -7.8 | 0.0 | -79.7 | -3.2 | -10.1 | 0.0 | 13.8 | OK | 29.2 | -4.7 | 30.3 | 261.9 | OK |
| 0.0 | -6.0 | -9.5 | -3.6 | 0.0 | -7.7 | -12.3 | -4.6 | 0.0 | 13.8 | OK | 47.7 | -2.1 | 47.8 | 261.9 | OK |
| 44.0 | 6.1 | -25.8 | -8.3 | 57.2 | 8.0 | -33.6 | -10.8 | 0.3 | 13.8 | OK | 126.8 | -5.0 | 127.1 | 261.9 | OK |
| 100.4 | 14.0 | -18.3 | -17.9 | 130.5 | 18.2 | -23.8 | -23.3 | 0.7 | 13.8 | OK | 92.7 | -10.8 | 94.6 | 261.9 | OK |
| 0.0 | -81.8 | -10.0 | -11.7 | 0.0 | -106.3 | -12.9 | -15.2 | 0.0 | 13.8 | OK | 71.1 | -7.0 | 72.1 | 261.9 | OK |
| 71.3 | 10.0 | -4.0 | -26.9 | 92.6 | 12.9 | -5.2 | -35.0 | 0.5 | 13.8 | OK | 22.1 | -16.1 | 35.6 | 261.9 | OK |
| 0.0 | -43.9 | -3.7 | -11.8 | 0.0 | -57.0 | -4.8 | -15.3 | 0.0 | 13.8 | OK | 30.2 | -7.1 | 32.6 | 261.9 | OK |
| 0.0 | -21.2 | -9.0 | -1.2 | 0.0 | -27.5 | -11.7 | -1.5 | 0.0 | 13.8 | OK | 49.3 | -0.7 | 49.4 | 261.9 | OK |
| 47.4 | 6.6 | -29.2 | 0.0 | 61.6 | 8.6 | -38.0 | 0.0 | 0.3 | 13.8 | OK | 143.3 | 0.0 | 143.3 | 261.9 | OK |
| 18.8 | 2.6 | 5.6 | 10.3 | 24.4 | 3.4 | 7.3 | 13.4 | 0.1 | 13.8 | OK | 28.0 | 6.2 | 30.0 | 261.9 | OK |
| 0.0 | -4.6 | 8.0 | 10.7 | 0.0 | -5.9 | 10.3 | 13.9 | 0.0 | 13.8 | OK | 39.8 | 6.4 | 41.3 | 261.9 | OK |
| 0.0 | -83.9 | -4.3 | -31.3 | 0.0 | -109.1 | -5.6 | -40.7 | 0.0 | 13.8 | OK | 44.5 | -18.8 | 55.1 | 261.9 | OK |
| 0.0 | -75.1 | -3.0 | -18.4 | 0.0 | -97.6 | -3.9 | -23.9 | 0.0 | 13.8 | OK | 35.6 | -11.0 | 40.4 | 261.9 | OK |
| 40.1 | 5.6 | -23.7 | 9.5 | 52.1 | 7.3 | -30.8 | 12.4 | 0.3 | 13.8 | OK | 116.5 | 5.7 | 116.9 | 261.9 | OK |
| 4.0 | 0.6 | -4.7 | 9.9 | 5.3 | 0.7 | -6.1 | 12.8 | 0.0 | 13.8 | OK | 22.8 | 5.9 | 25.0 | 261.9 | OK |
| 0.0 | -100.7 | -4.1 | -23.4 | 0.0 | -131.0 | -5.3 | -30.5 | 0.0 | 13.8 | OK | 48.1 | -14.1 | 53.9 | 261.9 | OK |
| 12.0 | 1.7 | 3.1 | -4.6 | 15.6 | 2.2 | 4.1 | -6.0 | 0.1 | 13.8 | OK | 15.7 | -2.8 | 16.4 | 261.9 | OK |
| 46.6 | 6.5 | -19.7 | -4.9 | 60.5 | 8.5 | -25.6 | -6.3 | 0.3 | 13.8 | OK | 97.2 | -2.9 | 97.3 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|-------|-------|-------|------|-------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 0.0 | -12.2 | 16.4 | 6.3 | 0.0 | -15.8 | 21.3 | 8.2 | 0.0 | 13.8 | OK | 82.9 | 3.8 | 83.2 | 261.9 | OK |
| 0.0 | -31.4 | 20.0 | -1.0 | 0.0 | -40.9 | 26.1 | -1.3 | 0.0 | 13.8 | OK | 105.9 | -0.6 | 105.9 | 261.9 | OK |
| 0.0 | -2.1 | -4.7 | 7.5 | 0.0 | -2.7 | -6.1 | 9.8 | 0.0 | 13.8 | OK | 23.2 | 4.5 | 24.5 | 261.9 | OK |
| 0.0 | -32.5 | 13.4 | -8.6 | 0.0 | -42.3 | 17.4 | -11.2 | 0.0 | 13.8 | OK | 74.1 | -5.2 | 74.6 | 261.9 | OK |
| 17.7 | 2.5 | -17.7 | 9.2 | 23.1 | 3.2 | -23.0 | 12.0 | 0.1 | 13.8 | OK | 86.4 | 5.5 | 86.9 | 261.9 | OK |
| 1.5 | 0.2 | 8.2 | -1.2 | 1.9 | 0.3 | 10.7 | -1.6 | 0.0 | 13.8 | OK | 40.0 | -0.7 | 40.0 | 261.9 | OK |
| 0.0 | -55.1 | 14.6 | -10.0 | 0.0 | -71.7 | 19.0 | -12.9 | 0.0 | 13.8 | OK | 86.3 | -6.0 | 86.9 | 261.9 | OK |
| 0.0 | -3.3 | 0.8 | 3.7 | 0.0 | -4.3 | 1.0 | 4.8 | 0.0 | 13.8 | OK | 4.8 | 2.2 | 6.2 | 261.9 | OK |
| 11.1 | 1.6 | -10.7 | -2.4 | 14.5 | 2.0 | -13.9 | -3.1 | 0.1 | 13.8 | OK | 52.4 | -1.4 | 52.4 | 261.9 | OK |
| 10.4 | 1.5 | 6.8 | 7.4 | 13.5 | 1.9 | 8.8 | 9.7 | 0.1 | 13.8 | OK | 33.3 | 4.5 | 34.2 | 261.9 | OK |
| 0.0 | -21.0 | 10.8 | 8.4 | 0.0 | -27.3 | 14.1 | 10.9 | 0.0 | 13.8 | OK | 58.3 | 5.0 | 58.9 | 261.9 | OK |
| 6.8 | 0.9 | 9.1 | -1.2 | 8.8 | 1.2 | 11.8 | -1.6 | 0.0 | 13.8 | OK | 44.4 | -0.7 | 44.4 | 261.9 | OK |
| 0.0 | -12.0 | -9.4 | 6.2 | 0.0 | -15.6 | -12.2 | 8.1 | 0.0 | 13.8 | OK | 48.8 | 3.7 | 49.2 | 261.9 | OK |
| 0.0 | -4.4 | 14.9 | 4.1 | 0.0 | -5.7 | 19.4 | 5.4 | 0.0 | 13.8 | OK | 73.4 | 2.5 | 73.5 | 261.9 | OK |
| 22.5 | 3.1 | -10.6 | 7.6 | 29.3 | 4.1 | -13.8 | 9.9 | 0.1 | 13.8 | OK | 52.3 | 4.6 | 52.8 | 261.9 | OK |
| 0.0 | -36.2 | 15.2 | -2.3 | 0.0 | -47.0 | 19.8 | -3.0 | 0.0 | 13.8 | OK | 83.8 | -1.4 | 83.8 | 261.9 | OK |
| 17.1 | 2.4 | -15.0 | 12.6 | 22.2 | 3.1 | -19.4 | 16.3 | 0.1 | 13.8 | OK | 73.1 | 7.5 | 74.3 | 261.9 | OK |
| 25.6 | 3.6 | -10.7 | 7.0 | 33.2 | 4.6 | -13.9 | 9.1 | 0.2 | 13.8 | OK | 52.6 | 4.2 | 53.1 | 261.9 | OK |
| 2.5 | 0.4 | 6.1 | 4.0 | 3.3 | 0.5 | 7.9 | 5.2 | 0.0 | 13.8 | OK | 29.6 | 2.4 | 29.9 | 261.9 | OK |
| 14.9 | 2.1 | -18.9 | -0.6 | 19.4 | 2.7 | -24.5 | -0.8 | 0.1 | 13.8 | OK | 91.9 | -0.3 | 91.9 | 261.9 | OK |
| 35.0 | 4.9 | -20.8 | 4.1 | 45.4 | 6.3 | -27.1 | 5.4 | 0.2 | 13.8 | OK | 102.3 | 2.5 | 102.4 | 261.9 | OK |
| 5.5 | 0.8 | 10.4 | 4.2 | 7.1 | 1.0 | 13.5 | 5.4 | 0.0 | 13.8 | OK | 50.6 | 2.5 | 50.7 | 261.9 | OK |
| 0.1 | 0.0 | -3.4 | 5.9 | 0.2 | 0.0 | -4.4 | 7.6 | 0.0 | 13.8 | OK | 16.3 | 3.5 | 17.4 | 261.9 | OK |
| 12.8 | 1.8 | -2.9 | 12.9 | 16.6 | 2.3 | -3.8 | 16.8 | 0.1 | 13.8 | OK | 14.6 | 7.8 | 19.8 | 261.9 | OK |
| 0.0 | -59.8 | 13.7 | -3.4 | 0.0 | -77.8 | 17.8 | -4.4 | 0.0 | 13.8 | OK | 83.2 | -2.0 | 83.3 | 261.9 | OK |
| 20.1 | 2.8 | -13.0 | 5.7 | 26.1 | 3.6 | -16.9 | 7.4 | 0.1 | 13.8 | OK | 63.8 | 3.4 | 64.1 | 261.9 | OK |
| 0.0 | -21.4 | 1.6 | 9.1 | 0.0 | -27.9 | 2.1 | 11.8 | 0.0 | 13.8 | OK | 13.9 | 5.4 | 16.8 | 261.9 | OK |
| 0.0 | -7.8 | -12.4 | 2.1 | 0.0 | -10.2 | -16.1 | 2.7 | 0.0 | 13.8 | OK | 62.3 | 1.2 | 62.3 | 261.9 | OK |
| 0.0 | -21.4 | 4.0 | -1.7 | 0.0 | -27.8 | 5.2 | -2.3 | 0.0 | 13.8 | OK | 25.5 | -1.0 | 25.6 | 261.9 | OK |
| 0.0 | -37.4 | -5.3 | -3.3 | 0.0 | -48.6 | -6.9 | -4.3 | 0.0 | 13.8 | OK | 36.2 | -2.0 | 36.3 | 261.9 | OK |
| 0.0 | -15.1 | -3.0 | -1.0 | 0.0 | -19.6 | -3.9 | -1.3 | 0.0 | 13.8 | OK | 18.8 | -0.6 | 18.8 | 261.9 | OK |
| 15.6 | 2.2 | 3.8 | 0.9 | 20.3 | 2.8 | 5.0 | 1.1 | 0.1 | 13.8 | OK | 19.1 | 0.5 | 19.1 | 261.9 | OK |
| 0.0 | -2.7 | 3.3 | 1.0 | 0.0 | -3.5 | 4.3 | 1.3 | 0.0 | 13.8 | OK | 16.8 | 0.6 | 16.9 | 261.9 | OK |
| 12.0 | 1.7 | -0.4 | -0.4 | 15.7 | 2.2 | -0.5 | -0.6 | 0.1 | 13.8 | OK | 2.2 | -0.3 | 2.3 | 261.9 | OK |
| 10.2 | 1.4 | -1.5 | 3.1 | 13.2 | 1.8 | -2.0 | 4.1 | 0.1 | 13.8 | OK | 7.8 | 1.9 | 8.4 | 261.9 | OK |
| 0.0 | -4.7 | -12.4 | -7.6 | 0.0 | -6.1 | -16.1 | -9.8 | 0.0 | 13.8 | OK | 61.3 | -4.5 | 61.8 | 261.9 | OK |
| 11.1 | 1.6 | -7.6 | -2.9 | 14.4 | 2.0 | -9.9 | -3.7 | 0.1 | 13.8 | OK | 37.3 | -1.7 | 37.4 | 261.9 | OK |
| 16.3 | 2.3 | -7.9 | -4.6 | 21.2 | 3.0 | -10.3 | -5.9 | 0.1 | 13.8 | OK | 39.0 | -2.7 | 39.3 | 261.9 | OK |
| 27.9 | 3.9 | 3.1 | -3.6 | 36.2 | 5.1 | 4.0 | -4.7 | 0.2 | 13.8 | OK | 16.1 | -2.2 | 16.5 | 261.9 | OK |
| 0.0 | -4.5 | 5.9 | -0.8 | 0.0 | -5.9 | 7.7 | -1.0 | 0.0 | 13.8 | OK | 29.9 | -0.5 | 30.0 | 261.9 | OK |
| 9.9 | 1.4 | 0.4 | -2.1 | 12.9 | 1.8 | 0.6 | -2.7 | 0.1 | 13.8 | OK | 2.5 | -1.3 | 3.3 | 261.9 | OK |
| 8.4 | 1.2 | 3.4 | -3.0 | 11.0 | 1.5 | 4.4 | -3.9 | 0.1 | 13.8 | OK | 16.8 | -1.8 | 17.0 | 261.9 | OK |
| 0.0 | -9.3 | 0.6 | -3.4 | 0.0 | -12.1 | 0.8 | -4.4 | 0.0 | 13.8 | OK | 5.6 | -2.0 | 6.6 | 261.9 | OK |
| 14.2 | 2.0 | -1.6 | -3.6 | 18.4 | 2.6 | -2.1 | -4.7 | 0.1 | 13.8 | OK | 8.5 | -2.2 | 9.3 | 261.9 | OK |
| 0.0 | -23.1 | -9.4 | 8.8 | 0.0 | -30.0 | -12.2 | 11.5 | 0.0 | 13.8 | OK | 52.1 | 5.3 | 52.9 | 261.9 | OK |
| 0.0 | -38.2 | -4.3 | 16.9 | 0.0 | -49.7 | -5.6 | 21.9 | 0.0 | 13.8 | OK | 31.5 | 10.1 | 36.1 | 261.9 | OK |
| 0.0 | -30.3 | 1.1 | 5.0 | 0.0 | -39.4 | 1.4 | 6.5 | 0.0 | 13.8 | OK | 13.7 | 3.0 | 14.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|--------|--------|-------|-------|--------|-----|------|----|-------|-------|-------|-------|----|
| 19.4 | 2.7 | 0.8 | 1.6 | 25.2 | 3.5 | 1.0 | 2.0 | 0.1 | 13.8 | OK | 4.4 | 0.9 | 4.7 | 261.9 | OK |
| 26.8 | 3.7 | -17.3 | -5.8 | 34.8 | 4.9 | -22.5 | -7.5 | 0.2 | 13.8 | OK | 84.9 | -3.5 | 85.1 | 261.9 | OK |
| 0.0 | -4.3 | -0.6 | -4.8 | 0.0 | -5.6 | -0.7 | -6.3 | 0.0 | 13.8 | OK | 4.0 | -2.9 | 6.4 | 261.9 | OK |
| 20.4 | 2.8 | -1.4 | -4.0 | 26.5 | 3.7 | -1.8 | -5.2 | 0.1 | 13.8 | OK | 7.5 | -2.4 | 8.6 | 261.9 | OK |
| 6.0 | 0.8 | -5.3 | -7.0 | 7.8 | 1.1 | -6.9 | -9.1 | 0.0 | 13.8 | OK | 26.1 | -4.2 | 27.1 | 261.9 | OK |
| 0.0 | -16.4 | -4.8 | -5.2 | 0.0 | -21.3 | -6.3 | -6.7 | 0.0 | 13.8 | OK | 27.9 | -3.1 | 28.4 | 261.9 | OK |
| 0.0 | -6.0 | 5.8 | 2.3 | 0.0 | -7.7 | 7.5 | 3.0 | 0.0 | 13.8 | OK | 29.7 | 1.4 | 29.8 | 261.9 | OK |
| 0.0 | -2.2 | 1.1 | 5.1 | 0.0 | -2.9 | 1.4 | 6.6 | 0.0 | 13.8 | OK | 6.0 | 3.1 | 8.0 | 261.9 | OK |
| 0.0 | -29.4 | -4.3 | 17.9 | 0.0 | -38.2 | -5.6 | 23.3 | 0.0 | 13.8 | OK | 29.0 | 10.7 | 34.5 | 261.9 | OK |
| 0.0 | -2.1 | -4.5 | 3.8 | 0.0 | -2.7 | -5.9 | 4.9 | 0.0 | 13.8 | OK | 22.4 | 2.3 | 22.7 | 261.9 | OK |
| 19.5 | 2.7 | 1.2 | -2.5 | 25.3 | 3.5 | 1.5 | -3.2 | 0.1 | 13.8 | OK | 6.5 | -1.5 | 7.0 | 261.9 | OK |
| 11.3 | 1.6 | -1.2 | -0.4 | 14.6 | 2.0 | -1.5 | -0.5 | 0.1 | 13.8 | OK | 6.1 | -0.2 | 6.1 | 261.9 | OK |
| 0.0 | -10.7 | -10.9 | -7.6 | 0.0 | -13.9 | -14.2 | -9.9 | 0.0 | 13.8 | OK | 55.9 | -4.6 | 56.4 | 261.9 | OK |
| 0.0 | -10.1 | -5.1 | -1.3 | 0.0 | -13.1 | -6.7 | -1.6 | 0.0 | 13.8 | OK | 27.7 | -0.8 | 27.8 | 261.9 | OK |
| 0.0 | -9.6 | -3.5 | -0.2 | 0.0 | -12.5 | -4.6 | -0.3 | 0.0 | 13.8 | OK | 19.8 | -0.1 | 19.8 | 261.9 | OK |
| 21.6 | 3.0 | -4.7 | 0.6 | 28.1 | 3.9 | -6.2 | 0.8 | 0.1 | 13.8 | OK | 23.8 | 0.4 | 23.8 | 261.9 | OK |
| 68.6 | 9.6 | -10.5 | 7.3 | 89.1 | 12.5 | -13.6 | 9.4 | 0.4 | 13.8 | OK | 53.3 | 4.4 | 53.9 | 261.9 | OK |
| 13.2 | 1.8 | -11.8 | -5.5 | 17.1 | 2.4 | -15.4 | -7.1 | 0.1 | 13.8 | OK | 57.9 | -3.3 | 58.2 | 261.9 | OK |
| 0.0 | -2.9 | -3.5 | -3.9 | 0.0 | -3.7 | -4.5 | -5.0 | 0.0 | 13.8 | OK | 17.7 | -2.3 | 18.1 | 261.9 | OK |
| 0.0 | -27.7 | -5.2 | -5.2 | 0.0 | -36.0 | -6.7 | -6.7 | 0.0 | 13.8 | OK | 32.8 | -3.1 | 33.3 | 261.9 | OK |
| 10.7 | 1.5 | -4.6 | 0.0 | 13.9 | 1.9 | -6.0 | 0.0 | 0.1 | 13.8 | OK | 22.8 | 0.0 | 22.8 | 261.9 | OK |
| 0.0 | -2.6 | -12.4 | -4.8 | 0.0 | -3.4 | -16.2 | -6.3 | 0.0 | 13.8 | OK | 61.0 | -2.9 | 61.2 | 261.9 | OK |
| 0.0 | -61.6 | -4.4 | 9.6 | 0.0 | -80.1 | -5.8 | 12.5 | 0.0 | 13.8 | OK | 38.7 | 5.8 | 40.0 | 261.9 | OK |
| 283.3 | 39.6 | -11.0 | 34.7 | 368.2 | 51.4 | -14.3 | 45.2 | 1.8 | 13.8 | OK | 64.4 | 20.8 | 73.8 | 261.9 | OK |
| 0.0 | -16.3 | -13.8 | 4.7 | 0.0 | -21.1 | -18.0 | 6.1 | 0.0 | 13.8 | OK | 71.4 | 2.8 | 71.6 | 261.9 | OK |
| 119.2 | 16.6 | -19.3 | 12.0 | 154.9 | 21.6 | -25.1 | 15.6 | 0.8 | 13.8 | OK | 98.1 | 7.2 | 98.9 | 261.9 | OK |
| 66.0 | 9.2 | -21.7 | 0.6 | 85.8 | 12.0 | -28.2 | 0.8 | 0.4 | 13.8 | OK | 107.5 | 0.4 | 107.5 | 261.9 | OK |
| 0.0 | -9.6 | 2.3 | 7.2 | 0.0 | -12.4 | 2.9 | 9.3 | 0.0 | 13.8 | OK | 13.6 | 4.3 | 15.5 | 261.9 | OK |
| 0.9 | 0.1 | -5.1 | 4.1 | 1.1 | 0.2 | -6.6 | 5.3 | 0.0 | 13.8 | OK | 24.8 | 2.5 | 25.2 | 261.9 | OK |
| 9.5 | 1.3 | 8.0 | -0.4 | 12.3 | 1.7 | 10.4 | -0.5 | 0.1 | 13.8 | OK | 39.2 | -0.2 | 39.2 | 261.9 | OK |
| 74.7 | 10.4 | -6.5 | 2.4 | 97.1 | 13.6 | -8.4 | 3.2 | 0.5 | 13.8 | OK | 34.2 | 1.5 | 34.3 | 261.9 | OK |
| 0.0 | -4.6 | 8.6 | -6.2 | 0.0 | -5.9 | 11.2 | -8.0 | 0.0 | 13.8 | OK | 43.0 | -3.7 | 43.5 | 261.9 | OK |
| 34.1 | 4.8 | -11.0 | 16.8 | 44.3 | 6.2 | -14.4 | 21.8 | 0.2 | 13.8 | OK | 54.8 | 10.1 | 57.5 | 261.9 | OK |
| 161.0 | 22.5 | -5.7 | 0.0 | 209.2 | 29.2 | -7.4 | 0.0 | 1.0 | 13.8 | OK | 33.7 | 0.0 | 33.7 | 261.9 | OK |
| 0.0 | -15.3 | 5.5 | 0.5 | 0.0 | -19.9 | 7.2 | 0.7 | 0.0 | 13.8 | OK | 31.1 | 0.3 | 31.1 | 261.9 | OK |
| 98.4 | 13.8 | -20.5 | 4.0 | 128.0 | 17.9 | -26.7 | 5.2 | 0.6 | 13.8 | OK | 103.3 | 2.4 | 103.4 | 261.9 | OK |
| 0.0 | -2.0 | 1.0 | 7.7 | 0.0 | -2.6 | 1.3 | 10.0 | 0.0 | 13.8 | OK | 5.4 | 4.6 | 9.6 | 261.9 | OK |
| 899.6 | 125.7 | 16.8 | -22.8 | 1169.5 | 163.4 | 21.9 | -29.6 | 5.8 | 13.8 | OK | 116.6 | -13.7 | 119.0 | 261.9 | OK |
| 159.7 | 22.3 | -7.2 | -3.7 | 207.6 | 29.0 | -9.4 | -4.7 | 1.0 | 13.8 | OK | 41.3 | -2.2 | 41.5 | 261.9 | OK |
| 360.2 | 50.3 | 0.0 | -26.2 | 468.2 | 65.4 | 0.1 | -34.0 | 2.3 | 13.8 | OK | 14.3 | -15.7 | 30.7 | 261.9 | OK |
| 719.1 | 100.5 | 7.3 | -107.9 | 934.8 | 130.6 | 9.4 | -140.3 | 4.7 | 13.8 | OK | 63.2 | -64.8 | 128.8 | 261.9 | OK |
| 293.3 | 41.0 | 6.4 | -35.0 | 381.3 | 53.3 | 8.3 | -45.5 | 1.9 | 13.8 | OK | 42.2 | -21.0 | 55.7 | 261.9 | OK |
| 0.0 | -15.1 | -9.2 | 8.8 | 0.0 | -19.6 | -12.0 | 11.5 | 0.0 | 13.8 | OK | 48.9 | 5.3 | 49.8 | 261.9 | OK |
| 24.2 | 3.4 | 5.6 | 5.5 | 31.5 | 4.4 | 7.2 | 7.1 | 0.2 | 13.8 | OK | 27.9 | 3.3 | 28.4 | 261.9 | OK |
| 3.0 | 0.4 | 10.0 | 4.9 | 4.0 | 0.6 | 12.9 | 6.4 | 0.0 | 13.8 | OK | 48.4 | 2.9 | 48.6 | 261.9 | OK |
| 0.0 | -13.3 | 4.8 | -4.0 | 0.0 | -17.3 | 6.3 | -5.2 | 0.0 | 13.8 | OK | 27.2 | -2.4 | 27.5 | 261.9 | OK |
| 0.0 | -8.9 | 3.1 | -7.9 | 0.0 | -11.5 | 4.0 | -10.3 | 0.0 | 13.8 | OK | 17.3 | -4.7 | 19.1 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|------|-------|--------|-------|-------|-------|-----|------|----|------|------|------|-------|----|
| 0.0 | -59.3 | 4.8 | -0.2 | 0.0 | -77.1 | 6.3 | -0.2 | 0.0 | 13.8 | OK | 39.9 | -0.1 | 39.9 | 261.9 | OK |
| 28.8 | 4.0 | -7.9 | 5.3 | 37.4 | 5.2 | -10.2 | 6.9 | 0.2 | 13.8 | OK | 39.3 | 3.2 | 39.7 | 261.9 | OK |
| 15.8 | 2.2 | 3.8 | 5.0 | 20.5 | 2.9 | 5.0 | 6.5 | 0.1 | 13.8 | OK | 19.2 | 3.0 | 19.9 | 261.9 | OK |
| 13.2 | 1.8 | -0.9 | 6.7 | 17.1 | 2.4 | -1.2 | 8.8 | 0.1 | 13.8 | OK | 5.0 | 4.0 | 8.6 | 261.9 | OK |
| 329.1 | 46.0 | -0.9 | 14.1 | 427.9 | 59.8 | -1.2 | 18.3 | 2.1 | 13.8 | OK | 17.2 | 8.5 | 22.6 | 261.9 | OK |
| 202.2 | 28.2 | -9.0 | 3.7 | 262.9 | 36.7 | -11.6 | 4.8 | 1.3 | 13.8 | OK | 51.3 | 2.2 | 51.4 | 261.9 | OK |
| 18.2 | 2.5 | 5.9 | -0.4 | 23.6 | 3.3 | 7.6 | -0.5 | 0.1 | 13.8 | OK | 29.1 | -0.2 | 29.1 | 261.9 | OK |
| 21.9 | 3.1 | -0.2 | 3.8 | 28.5 | 4.0 | -0.3 | 4.9 | 0.1 | 13.8 | OK | 1.9 | 2.3 | 4.4 | 261.9 | OK |
| 32.6 | 4.6 | -2.8 | 6.8 | 42.4 | 5.9 | -3.6 | 8.8 | 0.2 | 13.8 | OK | 14.6 | 4.1 | 16.2 | 261.9 | OK |
| 16.7 | 2.3 | 1.4 | 1.4 | 21.7 | 3.0 | 1.8 | 1.8 | 0.1 | 13.8 | OK | 7.4 | 0.8 | 7.5 | 261.9 | OK |
| 0.0 | -0.1 | -1.2 | 5.6 | 0.0 | -0.2 | -1.5 | 7.2 | 0.0 | 13.8 | OK | 5.8 | 3.3 | 8.2 | 261.9 | OK |
| 58.0 | 8.1 | -1.1 | 7.6 | 75.4 | 10.5 | -1.4 | 9.9 | 0.4 | 13.8 | OK | 7.6 | 4.6 | 11.0 | 261.9 | OK |
| 0.0 | -21.4 | 5.8 | 4.5 | 0.0 | -27.8 | 7.6 | 5.8 | 0.0 | 13.8 | OK | 34.3 | 2.7 | 34.6 | 261.9 | OK |
| 82.3 | 11.5 | -4.6 | 3.4 | 107.0 | 14.9 | -5.9 | 4.4 | 0.5 | 13.8 | OK | 25.3 | 2.0 | 25.6 | 261.9 | OK |
| 9.8 | 1.4 | 4.3 | 1.3 | 12.8 | 1.8 | 5.6 | 1.7 | 0.1 | 13.8 | OK | 21.3 | 0.8 | 21.3 | 261.9 | OK |
| 31.1 | 4.4 | -1.3 | 0.5 | 40.5 | 5.7 | -1.7 | 0.6 | 0.2 | 13.8 | OK | 7.4 | 0.3 | 7.4 | 261.9 | OK |
| 857.3 | 119.8 | 5.1 | 40.3 | 1114.5 | 155.7 | 6.6 | 52.4 | 5.6 | 13.8 | OK | 58.1 | 24.2 | 71.7 | 261.9 | OK |
| 238.9 | 33.4 | -0.5 | 4.9 | 310.5 | 43.4 | -0.7 | 6.4 | 1.6 | 13.8 | OK | 11.9 | 2.9 | 12.9 | 261.9 | OK |
| 6.4 | 0.9 | 3.4 | -4.4 | 8.3 | 1.2 | 4.4 | -5.8 | 0.0 | 13.8 | OK | 16.8 | -2.7 | 17.4 | 261.9 | OK |
| 54.4 | 7.6 | -2.5 | -4.4 | 70.7 | 9.9 | -3.3 | -5.7 | 0.4 | 13.8 | OK | 14.5 | -2.6 | 15.2 | 261.9 | OK |
| 25.0 | 3.5 | 1.3 | -3.5 | 32.5 | 4.5 | 1.7 | -4.6 | 0.2 | 13.8 | OK | 7.3 | -2.1 | 8.2 | 261.9 | OK |
| 198.1 | 27.7 | -0.5 | -3.1 | 257.5 | 36.0 | -0.6 | -4.0 | 1.3 | 13.8 | OK | 10.1 | -1.8 | 10.6 | 261.9 | OK |
| 30.3 | 4.2 | -1.8 | -1.9 | 39.4 | 5.5 | -2.4 | -2.4 | 0.2 | 13.8 | OK | 10.1 | -1.1 | 10.3 | 261.9 | OK |
| 21.7 | 3.0 | -2.9 | -6.5 | 28.2 | 3.9 | -3.8 | -8.4 | 0.1 | 13.8 | OK | 15.1 | -3.9 | 16.6 | 261.9 | OK |
| 33.1 | 4.6 | 1.6 | -4.7 | 43.1 | 6.0 | 2.0 | -6.1 | 0.2 | 13.8 | OK | 8.9 | -2.8 | 10.1 | 261.9 | OK |
| 11.2 | 1.6 | 1.0 | -1.5 | 14.5 | 2.0 | 1.3 | -2.0 | 0.1 | 13.8 | OK | 5.1 | -0.9 | 5.3 | 261.9 | OK |
| 14.5 | 2.0 | -8.4 | -5.6 | 18.9 | 2.6 | -10.9 | -7.3 | 0.1 | 13.8 | OK | 41.1 | -3.4 | 41.6 | 261.9 | OK |
| 13.9 | 1.9 | -3.5 | -4.7 | 18.1 | 2.5 | -4.5 | -6.1 | 0.1 | 13.8 | OK | 17.4 | -2.8 | 18.1 | 261.9 | OK |
| 33.2 | 4.6 | 1.2 | -2.6 | 43.1 | 6.0 | 1.5 | -3.4 | 0.2 | 13.8 | OK | 6.9 | -1.6 | 7.4 | 261.9 | OK |
| 129.0 | 18.0 | -5.8 | -1.9 | 167.7 | 23.4 | -7.5 | -2.4 | 0.8 | 13.8 | OK | 33.0 | -1.1 | 33.1 | 261.9 | OK |
| 335.5 | 46.9 | -2.4 | 6.4 | 436.1 | 60.9 | -3.1 | 8.3 | 2.2 | 13.8 | OK | 24.6 | 3.8 | 25.5 | 261.9 | OK |
| 3.7 | 0.5 | -0.2 | -3.8 | 4.8 | 0.7 | -0.3 | -4.9 | 0.0 | 13.8 | OK | 1.3 | -2.3 | 4.2 | 261.9 | OK |
| 27.3 | 3.8 | -2.6 | -4.4 | 35.5 | 5.0 | -3.4 | -5.8 | 0.2 | 13.8 | OK | 13.6 | -2.7 | 14.4 | 261.9 | OK |
| 13.8 | 1.9 | -1.3 | 0.6 | 17.9 | 2.5 | -1.6 | 0.8 | 0.1 | 13.8 | OK | 6.6 | 0.4 | 6.6 | 261.9 | OK |
| 47.8 | 6.7 | -7.0 | -4.5 | 62.2 | 8.7 | -9.1 | -5.8 | 0.3 | 13.8 | OK | 35.8 | -2.7 | 36.1 | 261.9 | OK |
| 106.3 | 14.8 | -8.8 | -4.2 | 138.1 | 19.3 | -11.4 | -5.4 | 0.7 | 13.8 | OK | 46.7 | -2.5 | 46.9 | 261.9 | OK |
| 2.3 | 0.3 | 0.9 | -2.2 | 3.0 | 0.4 | 1.1 | -2.8 | 0.0 | 13.8 | OK | 4.4 | -1.3 | 4.9 | 261.9 | OK |
| 43.9 | 6.1 | -6.1 | -4.8 | 57.0 | 8.0 | -7.9 | -6.2 | 0.3 | 13.8 | OK | 31.1 | -2.9 | 31.5 | 261.9 | OK |
| 0.0 | -15.3 | -1.7 | -2.1 | 0.0 | -19.9 | -2.2 | -2.8 | 0.0 | 13.8 | OK | 12.5 | -1.3 | 12.7 | 261.9 | OK |
| 368.1 | 51.4 | 8.1 | 22.9 | 478.6 | 66.9 | 10.5 | 29.7 | 2.4 | 13.8 | OK | 53.6 | 13.7 | 58.6 | 261.9 | OK |
| 0.0 | -11.3 | -3.2 | -2.7 | 0.0 | -14.7 | -4.1 | -3.6 | 0.0 | 13.8 | OK | 18.5 | -1.6 | 18.7 | 261.9 | OK |
| 550.2 | 76.9 | 7.1 | 13.1 | 715.2 | 99.9 | 9.2 | 17.0 | 3.6 | 13.8 | OK | 55.7 | 7.9 | 57.3 | 261.9 | OK |
| 12.7 | 1.8 | -3.0 | -1.3 | 16.5 | 2.3 | -3.9 | -1.7 | 0.1 | 13.8 | OK | 15.0 | -0.8 | 15.0 | 261.9 | OK |
| 112.3 | 15.7 | -5.4 | 4.5 | 146.0 | 20.4 | -7.0 | 5.9 | 0.7 | 13.8 | OK | 30.3 | 2.7 | 30.7 | 261.9 | OK |
| 216.8 | 30.3 | 0.8 | 7.6 | 281.9 | 39.4 | 1.0 | 9.9 | 1.4 | 13.8 | OK | 12.2 | 4.5 | 14.6 | 261.9 | OK |
| 83.0 | 11.6 | -9.7 | -10.4 | 107.9 | 15.1 | -12.6 | -13.5 | 0.5 | 13.8 | OK | 50.1 | -6.2 | 51.2 | 261.9 | OK |
| 0.0 | -0.2 | -2.3 | -5.1 | 0.0 | -0.3 | -2.9 | -6.7 | 0.0 | 13.8 | OK | 11.0 | -3.1 | 12.2 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 372.2 | 52.0 | 2.6 | 26.7 | 483.9 | 67.6 | 3.3 | 34.7 | 2.4 | 13.8 | OK | 27.0 | 16.0 | 38.7 | 261.9 | OK |
| 17.4 | 2.4 | -1.2 | -5.4 | 22.7 | 3.2 | -1.5 | -7.0 | 0.1 | 13.8 | OK | 6.3 | -3.2 | 8.4 | 261.9 | OK |
| 40.1 | 5.6 | -4.8 | -0.8 | 52.1 | 7.3 | -6.3 | -1.1 | 0.3 | 13.8 | OK | 25.0 | -0.5 | 25.0 | 261.9 | OK |
| 18.4 | 2.6 | -5.5 | -1.1 | 23.9 | 3.3 | -7.1 | -1.5 | 0.1 | 13.8 | OK | 27.3 | -0.7 | 27.3 | 261.9 | OK |
| 13.7 | 1.9 | 1.5 | 1.5 | 17.8 | 2.5 | 2.0 | 2.0 | 0.1 | 13.8 | OK | 8.0 | 0.9 | 8.1 | 261.9 | OK |
| 41.0 | 5.7 | -6.0 | 1.6 | 53.3 | 7.4 | -7.8 | 2.0 | 0.3 | 13.8 | OK | 30.8 | 0.9 | 30.8 | 261.9 | OK |
| 26.7 | 3.7 | 7.8 | -1.4 | 34.7 | 4.8 | 10.1 | -1.8 | 0.2 | 13.8 | OK | 38.8 | -0.8 | 38.8 | 261.9 | OK |
| 0.0 | -15.6 | 6.1 | -0.4 | 0.0 | -20.3 | 7.9 | -0.5 | 0.0 | 13.8 | OK | 33.9 | -0.2 | 33.9 | 261.9 | OK |
| 346.7 | 48.4 | 5.3 | 23.0 | 450.7 | 63.0 | 6.8 | 29.9 | 2.3 | 13.8 | OK | 39.0 | 13.8 | 45.7 | 261.9 | OK |
| 21.7 | 3.0 | 4.9 | -3.0 | 28.2 | 3.9 | 6.3 | -3.9 | 0.1 | 13.8 | OK | 24.4 | -1.8 | 24.6 | 261.9 | OK |
| 35.0 | 4.9 | 9.7 | -4.3 | 45.5 | 6.4 | 12.6 | -5.6 | 0.2 | 13.8 | OK | 48.3 | -2.6 | 48.5 | 261.9 | OK |
| 108.3 | 15.1 | -5.3 | 3.0 | 140.8 | 19.7 | -6.9 | 3.9 | 0.7 | 13.8 | OK | 29.9 | 1.8 | 30.0 | 261.9 | OK |
| 195.6 | 27.3 | -6.2 | 7.9 | 254.3 | 35.5 | -8.1 | 10.3 | 1.3 | 13.8 | OK | 37.8 | 4.8 | 38.7 | 261.9 | OK |
| 7.7 | 1.1 | -4.9 | -7.9 | 10.1 | 1.4 | -6.3 | -10.3 | 0.1 | 13.8 | OK | 24.0 | -4.7 | 25.3 | 261.9 | OK |
| 0.0 | -17.0 | 2.0 | -4.6 | 0.0 | -22.0 | 2.6 | -5.9 | 0.0 | 13.8 | OK | 14.4 | -2.7 | 15.2 | 261.9 | OK |
| 245.3 | 34.3 | 15.5 | 23.8 | 318.8 | 44.5 | 20.2 | 31.0 | 1.6 | 13.8 | OK | 84.7 | 14.3 | 88.3 | 261.9 | OK |
| 49.7 | 6.9 | -4.0 | 4.6 | 64.6 | 9.0 | -5.2 | 5.9 | 0.3 | 13.8 | OK | 21.3 | 2.7 | 21.8 | 261.9 | OK |
| 20.7 | 2.9 | -0.3 | -1.8 | 26.9 | 3.8 | -0.4 | -2.3 | 0.1 | 13.8 | OK | 2.1 | -1.1 | 2.8 | 261.9 | OK |
| 11.5 | 1.6 | -3.8 | -3.9 | 15.0 | 2.1 | -4.9 | -5.1 | 0.1 | 13.8 | OK | 18.9 | -2.3 | 19.3 | 261.9 | OK |
| 107.6 | 15.0 | -11.2 | -4.0 | 139.9 | 19.5 | -14.5 | -5.2 | 0.7 | 13.8 | OK | 58.3 | -2.4 | 58.5 | 261.9 | OK |
| 47.0 | 6.6 | -7.2 | -0.1 | 61.1 | 8.5 | -9.4 | -0.1 | 0.3 | 13.8 | OK | 36.8 | 0.0 | 36.8 | 261.9 | OK |
| 29.1 | 4.1 | -4.3 | -4.3 | 37.8 | 5.3 | -5.6 | -5.6 | 0.2 | 13.8 | OK | 22.1 | -2.6 | 22.5 | 261.9 | OK |
| 40.6 | 5.7 | -6.7 | -5.0 | 52.8 | 7.4 | -8.7 | -6.4 | 0.3 | 13.8 | OK | 34.0 | -3.0 | 34.4 | 261.9 | OK |
| 0.0 | -12.0 | 4.1 | -5.6 | 0.0 | -15.5 | 5.4 | -7.2 | 0.0 | 13.8 | OK | 23.3 | -3.3 | 24.0 | 261.9 | OK |
| 24.0 | 3.4 | 2.2 | -6.1 | 31.2 | 4.4 | 2.8 | -7.9 | 0.2 | 13.8 | OK | 11.4 | -3.6 | 13.0 | 261.9 | OK |
| 0.0 | -26.8 | 4.7 | -5.2 | 0.0 | -34.8 | 6.1 | -6.8 | 0.0 | 13.8 | OK | 30.1 | -3.1 | 30.6 | 261.9 | OK |
| 95.3 | 13.3 | 3.1 | -10.2 | 123.9 | 17.3 | 4.0 | -13.2 | 0.6 | 13.8 | OK | 18.6 | -6.1 | 21.4 | 261.9 | OK |
| 74.4 | 10.4 | -12.1 | -8.4 | 96.8 | 13.5 | -15.8 | -10.9 | 0.5 | 13.8 | OK | 61.7 | -5.0 | 62.3 | 261.9 | OK |
| 396.4 | 55.4 | 14.1 | -64.0 | 515.4 | 72.0 | 18.3 | -83.2 | 2.6 | 13.8 | OK | 83.7 | -38.4 | 106.9 | 261.9 | OK |
| 252.4 | 35.3 | 9.3 | -30.2 | 328.2 | 45.9 | 12.0 | -39.3 | 1.6 | 13.8 | OK | 54.7 | -18.1 | 63.1 | 261.9 | OK |
| 0.0 | -2.4 | -2.7 | -0.5 | 0.0 | -3.2 | -3.5 | -0.6 | 0.0 | 13.8 | OK | 13.9 | -0.3 | 13.9 | 261.9 | OK |
| 10.6 | 1.5 | 8.0 | -1.7 | 13.8 | 1.9 | 10.4 | -2.2 | 0.1 | 13.8 | OK | 39.3 | -1.0 | 39.3 | 261.9 | OK |
| 7.3 | 1.0 | -1.7 | -6.0 | 9.5 | 1.3 | -2.2 | -7.8 | 0.0 | 13.8 | OK | 8.5 | -3.6 | 10.6 | 261.9 | OK |
| 32.3 | 4.5 | -5.8 | -7.3 | 42.0 | 5.9 | -7.6 | -9.5 | 0.2 | 13.8 | OK | 29.5 | -4.4 | 30.5 | 261.9 | OK |
| 9.2 | 1.3 | 2.6 | -5.5 | 12.0 | 1.7 | 3.4 | -7.2 | 0.1 | 13.8 | OK | 12.9 | -3.3 | 14.1 | 261.9 | OK |
| 27.2 | 3.8 | -0.9 | -11.4 | 35.4 | 4.9 | -1.2 | -14.8 | 0.2 | 13.8 | OK | 5.6 | -6.9 | 13.1 | 261.9 | OK |
| 24.2 | 3.4 | -3.6 | 1.4 | 31.5 | 4.4 | -4.6 | 1.8 | 0.2 | 13.8 | OK | 18.2 | 0.8 | 18.3 | 261.9 | OK |
| 187.1 | 26.1 | -3.2 | 15.2 | 243.2 | 34.0 | -4.1 | 19.8 | 1.2 | 13.8 | OK | 22.6 | 9.1 | 27.6 | 261.9 | OK |
| 9.4 | 1.3 | 6.9 | -1.3 | 12.2 | 1.7 | 8.9 | -1.8 | 0.1 | 13.8 | OK | 33.7 | -0.8 | 33.7 | 261.9 | OK |
| 0.0 | -35.6 | 7.6 | -0.1 | 0.0 | -46.3 | 9.9 | -0.2 | 0.0 | 13.8 | OK | 46.9 | -0.1 | 46.9 | 261.9 | OK |
| 483.9 | 67.6 | 20.9 | 70.3 | 629.1 | 87.9 | 27.2 | 91.4 | 3.1 | 13.8 | OK | 120.2 | 42.2 | 140.7 | 261.9 | OK |
| 0.0 | -23.8 | 6.6 | 2.8 | 0.0 | -30.9 | 8.5 | 3.7 | 0.0 | 13.8 | OK | 38.5 | 1.7 | 38.6 | 261.9 | OK |
| 0.0 | -9.8 | 6.0 | 2.7 | 0.0 | -12.7 | 7.9 | 3.5 | 0.0 | 13.8 | OK | 32.0 | 1.6 | 32.1 | 261.9 | OK |
| 0.0 | -12.5 | -2.8 | 5.1 | 0.0 | -16.2 | -3.6 | 6.6 | 0.0 | 13.8 | OK | 16.9 | 3.0 | 17.7 | 261.9 | OK |
| 40.7 | 5.7 | -6.4 | 4.4 | 52.9 | 7.4 | -8.4 | 5.8 | 0.3 | 13.8 | OK | 32.8 | 2.7 | 33.1 | 261.9 | OK |
| 9.7 | 1.4 | -1.4 | 6.8 | 12.6 | 1.8 | -1.9 | 8.8 | 0.1 | 13.8 | OK | 7.4 | 4.1 | 10.2 | 261.9 | OK |
| 245.7 | 34.3 | -5.6 | 6.3 | 319.4 | 44.6 | -7.2 | 8.2 | 1.6 | 13.8 | OK | 36.5 | 3.8 | 37.1 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|--------|--------|-------|-------|--------|-----|------|----|-------|-------|-------|-------|----|
| 28.4 | 4.0 | 4.7 | 4.1 | 36.9 | 5.1 | 6.1 | 5.3 | 0.2 | 13.8 | OK | 23.9 | 2.5 | 24.2 | 261.9 | OK |
| 0.0 | -20.3 | 4.7 | 2.8 | 0.0 | -26.4 | 6.0 | 3.7 | 0.0 | 13.8 | OK | 28.2 | 1.7 | 28.4 | 261.9 | OK |
| 149.0 | 20.8 | -2.1 | -0.9 | 193.7 | 27.1 | -2.7 | -1.2 | 1.0 | 13.8 | OK | 15.9 | -0.5 | 16.0 | 261.9 | OK |
| 15.2 | 2.1 | 0.0 | 1.5 | 19.8 | 2.8 | 0.0 | 2.0 | 0.1 | 13.8 | OK | 0.7 | 0.9 | 1.8 | 261.9 | OK |
| 3.2 | 0.4 | -3.8 | -0.4 | 4.2 | 0.6 | -4.9 | -0.6 | 0.0 | 13.8 | OK | 18.5 | -0.3 | 18.5 | 261.9 | OK |
| 0.0 | -39.2 | -0.8 | 1.2 | 0.0 | -51.0 | -1.1 | 1.6 | 0.0 | 13.8 | OK | 14.9 | 0.7 | 15.0 | 261.9 | OK |
| 0.0 | -10.4 | -2.9 | 1.6 | 0.0 | -13.6 | -3.8 | 2.1 | 0.0 | 13.8 | OK | 16.9 | 1.0 | 17.0 | 261.9 | OK |
| 0.0 | -20.1 | -9.5 | 14.9 | 0.0 | -26.1 | -12.4 | 19.3 | 0.0 | 13.8 | OK | 51.9 | 8.9 | 54.1 | 261.9 | OK |
| 29.6 | 4.1 | 0.0 | 2.7 | 38.5 | 5.4 | 0.0 | 3.6 | 0.2 | 13.8 | OK | 1.3 | 1.6 | 3.1 | 261.9 | OK |
| 797.6 | 111.4 | 2.7 | -30.8 | 1036.9 | 144.9 | 3.5 | -40.1 | 5.2 | 13.8 | OK | 44.3 | -18.5 | 54.7 | 261.9 | OK |
| 253.6 | 35.4 | 3.2 | -43.5 | 329.7 | 46.1 | 4.1 | -56.5 | 1.6 | 13.8 | OK | 25.3 | -26.1 | 51.8 | 261.9 | OK |
| 27.7 | 3.9 | -1.8 | 3.8 | 36.1 | 5.0 | -2.4 | 5.0 | 0.2 | 13.8 | OK | 10.0 | 2.3 | 10.8 | 261.9 | OK |
| 77.6 | 10.8 | -7.4 | 4.3 | 100.9 | 14.1 | -9.6 | 5.6 | 0.5 | 13.8 | OK | 38.9 | 2.6 | 39.1 | 261.9 | OK |
| 16.5 | 2.3 | -4.7 | 3.6 | 21.5 | 3.0 | -6.1 | 4.7 | 0.1 | 13.8 | OK | 23.5 | 2.2 | 23.8 | 261.9 | OK |
| 57.3 | 8.0 | -3.7 | -2.4 | 74.5 | 10.4 | -4.9 | -3.1 | 0.4 | 13.8 | OK | 20.4 | -1.4 | 20.5 | 261.9 | OK |
| 161.3 | 22.5 | -3.3 | 0.9 | 209.7 | 29.3 | -4.3 | 1.1 | 1.0 | 13.8 | OK | 22.5 | 0.5 | 22.5 | 261.9 | OK |
| 6.6 | 0.9 | 7.9 | 0.2 | 8.6 | 1.2 | 10.2 | 0.2 | 0.0 | 13.8 | OK | 38.5 | 0.1 | 38.5 | 261.9 | OK |
| 21.8 | 3.0 | 6.6 | 1.3 | 28.3 | 4.0 | 8.6 | 1.7 | 0.1 | 13.8 | OK | 32.9 | 0.8 | 32.9 | 261.9 | OK |
| 17.8 | 2.5 | 5.1 | 3.8 | 23.2 | 3.2 | 6.7 | 5.0 | 0.1 | 13.8 | OK | 25.6 | 2.3 | 25.9 | 261.9 | OK |
| 138.0 | 19.3 | -5.6 | 11.1 | 179.4 | 25.1 | -7.3 | 14.5 | 0.9 | 13.8 | OK | 32.7 | 6.7 | 34.7 | 261.9 | OK |
| 294.6 | 41.2 | -2.8 | -21.7 | 383.0 | 53.5 | -3.7 | -28.2 | 1.9 | 13.8 | OK | 25.2 | -13.0 | 33.9 | 261.9 | OK |
| 650.0 | 90.8 | 11.6 | -92.2 | 845.1 | 118.1 | 15.1 | -119.9 | 4.2 | 13.8 | OK | 81.6 | -55.4 | 125.9 | 261.9 | OK |
| 88.4 | 12.4 | -14.3 | 23.4 | 114.9 | 16.1 | -18.6 | 30.4 | 0.6 | 13.8 | OK | 72.9 | 14.0 | 76.8 | 261.9 | OK |
| 0.0 | -16.4 | -0.4 | 5.8 | 0.0 | -21.3 | -0.6 | 7.5 | 0.0 | 13.8 | OK | 6.7 | 3.5 | 9.0 | 261.9 | OK |
| 0.0 | -0.5 | -2.3 | 1.7 | 0.0 | -0.7 | -3.0 | 2.2 | 0.0 | 13.8 | OK | 11.1 | 1.0 | 11.3 | 261.9 | OK |
| 0.0 | -41.1 | -0.9 | 8.5 | 0.0 | -53.5 | -1.2 | 11.0 | 0.0 | 13.8 | OK | 15.9 | 5.1 | 18.2 | 261.9 | OK |
| 10.9 | 1.5 | -6.3 | 6.3 | 14.2 | 2.0 | -8.2 | 8.1 | 0.1 | 13.8 | OK | 31.0 | 3.8 | 31.7 | 261.9 | OK |
| 27.7 | 3.9 | 2.7 | 0.0 | 36.0 | 5.0 | 3.5 | 0.0 | 0.2 | 13.8 | OK | 14.1 | 0.0 | 14.1 | 261.9 | OK |
| 12.4 | 1.7 | -0.5 | -2.6 | 16.1 | 2.3 | -0.6 | -3.4 | 0.1 | 13.8 | OK | 2.9 | -1.6 | 4.0 | 261.9 | OK |
| 0.1 | 0.0 | 2.1 | 4.6 | 0.2 | 0.0 | 2.8 | 6.0 | 0.0 | 13.8 | OK | 10.3 | 2.8 | 11.4 | 261.9 | OK |
| 444.9 | 62.2 | 7.6 | 43.8 | 578.4 | 80.8 | 9.9 | 56.9 | 2.9 | 13.8 | OK | 54.3 | 26.3 | 70.8 | 261.9 | OK |
| 371.6 | 51.9 | -0.8 | -41.1 | 483.0 | 67.5 | -1.0 | -53.4 | 2.4 | 13.8 | OK | 18.3 | -24.7 | 46.4 | 261.9 | OK |
| 731.3 | 102.2 | 20.8 | 29.0 | 950.8 | 132.8 | 27.0 | 37.7 | 4.8 | 13.8 | OK | 129.2 | 17.4 | 132.7 | 261.9 | OK |
| 560.2 | 78.3 | 1.1 | 33.3 | 728.2 | 101.7 | 1.4 | 43.2 | 3.6 | 13.8 | OK | 27.0 | 20.0 | 43.9 | 261.9 | OK |
| 324.2 | 45.3 | -17.9 | 42.9 | 421.5 | 58.9 | -23.2 | 55.8 | 2.1 | 13.8 | OK | 99.2 | 25.8 | 108.7 | 261.9 | OK |
| 396.0 | 55.3 | 0.6 | 95.2 | 514.8 | 71.9 | 0.8 | 123.8 | 2.6 | 13.8 | OK | 18.5 | 57.1 | 100.7 | 261.9 | OK |
| 490.3 | 68.5 | -34.1 | -24.2 | 637.4 | 89.1 | -44.4 | -31.4 | 3.2 | 13.8 | OK | 184.5 | -14.5 | 186.2 | 261.9 | OK |
| 285.8 | 39.9 | -28.7 | 5.6 | 371.6 | 51.9 | -37.3 | 7.3 | 1.9 | 13.8 | OK | 150.3 | 3.4 | 150.5 | 261.9 | OK |
| 294.6 | 41.2 | -3.3 | 13.4 | 383.0 | 53.5 | -4.3 | 17.5 | 1.9 | 13.8 | OK | 27.6 | 8.1 | 30.9 | 261.9 | OK |
| 294.4 | 41.1 | -13.7 | 17.6 | 382.7 | 53.5 | -17.8 | 22.9 | 1.9 | 13.8 | OK | 77.8 | 10.6 | 79.9 | 261.9 | OK |
| 380.0 | 53.1 | -15.4 | -15.8 | 494.0 | 69.0 | -20.0 | -20.6 | 2.5 | 13.8 | OK | 89.4 | -9.5 | 90.9 | 261.9 | OK |
| 131.6 | 18.4 | -6.6 | -13.9 | 171.1 | 23.9 | -8.5 | -18.0 | 0.9 | 13.8 | OK | 36.9 | -8.3 | 39.7 | 261.9 | OK |
| 244.8 | 34.2 | -18.5 | -13.6 | 318.2 | 44.5 | -24.0 | -17.7 | 1.6 | 13.8 | OK | 99.1 | -8.2 | 100.1 | 261.9 | OK |
| 234.8 | 32.8 | -10.9 | -2.0 | 305.2 | 42.6 | -14.1 | -2.7 | 1.5 | 13.8 | OK | 61.8 | -1.2 | 61.8 | 261.9 | OK |
| 884.7 | 123.6 | -24.6 | -117.0 | 1150.2 | 160.7 | -32.0 | -152.1 | 5.8 | 13.8 | OK | 153.8 | -70.2 | 196.1 | 261.9 | OK |
| 304.6 | 42.6 | -4.1 | 57.4 | 396.0 | 55.3 | -5.3 | 74.6 | 2.0 | 13.8 | OK | 31.8 | 34.5 | 67.6 | 261.9 | OK |
| 411.4 | 57.5 | -16.8 | -7.4 | 534.8 | 74.7 | -21.9 | -9.7 | 2.7 | 13.8 | OK | 97.7 | -4.5 | 98.0 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|-------|--------|--------|--------|-------|--------|-----|------|----|-------|-------|-------|-------|----|
| 132.5 | 18.5 | -21.0 | -11.9 | 172.2 | 24.1 | -27.3 | -15.4 | 0.9 | 13.8 | OK | 106.8 | -7.1 | 107.5 | 261.9 | OK |
| 223.1 | 31.2 | -9.8 | -22.1 | 290.0 | 40.5 | -12.8 | -28.7 | 1.4 | 13.8 | OK | 56.2 | -13.3 | 60.8 | 261.9 | OK |
| 0.0 | -88.5 | -3.7 | 3.4 | 0.0 | -115.1 | -4.8 | 4.4 | 0.0 | 13.8 | OK | 42.6 | 2.0 | 42.8 | 261.9 | OK |
| 212.2 | 29.6 | -5.9 | -6.4 | 275.8 | 38.5 | -7.7 | -8.3 | 1.4 | 13.8 | OK | 36.9 | -3.9 | 37.5 | 261.9 | OK |
| 439.8 | 61.4 | 8.7 | 56.3 | 571.7 | 79.9 | 11.4 | 73.2 | 2.9 | 13.8 | OK | 59.5 | 33.8 | 83.4 | 261.9 | OK |
| 503.4 | 70.3 | -8.7 | -53.7 | 654.4 | 91.4 | -11.3 | -69.8 | 3.3 | 13.8 | OK | 61.7 | -32.2 | 83.2 | 261.9 | OK |
| 260.4 | 36.4 | -0.3 | -10.7 | 338.5 | 47.3 | -0.4 | -13.9 | 1.7 | 13.8 | OK | 11.7 | -6.4 | 16.1 | 261.9 | OK |
| 537.1 | 75.0 | -5.1 | 78.1 | 698.3 | 97.6 | -6.6 | 101.5 | 3.5 | 13.8 | OK | 45.5 | 46.9 | 93.0 | 261.9 | OK |
| 66.1 | 9.2 | -7.9 | -8.0 | 86.0 | 12.0 | -10.3 | -10.4 | 0.4 | 13.8 | OK | 41.0 | -4.8 | 41.9 | 261.9 | OK |
| 146.6 | 20.5 | -6.7 | -17.9 | 190.6 | 26.6 | -8.7 | -23.3 | 1.0 | 13.8 | OK | 38.1 | -10.7 | 42.4 | 261.9 | OK |
| 198.1 | 27.7 | -18.3 | -14.4 | 257.6 | 36.0 | -23.8 | -18.7 | 1.3 | 13.8 | OK | 96.5 | -8.6 | 97.7 | 261.9 | OK |
| 130.4 | 18.2 | -6.9 | -2.2 | 169.5 | 23.7 | -8.9 | -2.8 | 0.8 | 13.8 | OK | 38.3 | -1.3 | 38.4 | 261.9 | OK |
| 487.6 | 68.1 | 0.3 | 0.4 | 633.9 | 88.6 | 0.4 | 0.5 | 3.2 | 13.8 | OK | 20.4 | 0.2 | 20.4 | 261.9 | OK |
| 273.0 | 38.1 | -3.1 | 13.4 | 354.8 | 49.6 | -4.1 | 17.4 | 1.8 | 13.8 | OK | 25.9 | 8.0 | 29.4 | 261.9 | OK |
| 445.5 | 62.2 | 16.5 | -3.2 | 579.2 | 80.9 | 21.5 | -4.2 | 2.9 | 13.8 | OK | 97.4 | -1.9 | 97.4 | 261.9 | OK |
| 609.8 | 85.2 | 5.4 | 45.7 | 792.8 | 110.8 | 7.0 | 59.4 | 4.0 | 13.8 | OK | 49.9 | 27.4 | 68.9 | 261.9 | OK |
| 836.4 | 116.8 | 39.1 | 42.4 | 1087.3 | 151.9 | 50.8 | 55.2 | 5.4 | 13.8 | OK | 221.9 | 25.5 | 226.3 | 261.9 | OK |
| 190.5 | 26.6 | -18.8 | 16.8 | 247.7 | 34.6 | -24.4 | 21.8 | 1.2 | 13.8 | OK | 98.3 | 10.1 | 99.9 | 261.9 | OK |
| 632.5 | 88.4 | 7.4 | -86.0 | 822.2 | 114.9 | 9.7 | -111.8 | 4.1 | 13.8 | OK | 60.7 | -51.6 | 108.0 | 261.9 | OK |
| 492.0 | 68.7 | -12.5 | 61.7 | 639.6 | 89.4 | -16.3 | 80.2 | 3.2 | 13.8 | OK | 79.9 | 37.0 | 102.4 | 261.9 | OK |
| 556.6 | 77.8 | 1.7 | -6.2 | 723.6 | 101.1 | 2.2 | -8.0 | 3.6 | 13.8 | OK | 29.8 | -3.7 | 30.5 | 261.9 | OK |
| 156.3 | 21.8 | -7.5 | 13.3 | 203.2 | 28.4 | -9.8 | 17.3 | 1.0 | 13.8 | OK | 42.6 | 8.0 | 44.8 | 261.9 | OK |
| 253.9 | 35.5 | -3.3 | -3.9 | 330.1 | 46.1 | -4.3 | -5.1 | 1.7 | 13.8 | OK | 25.9 | -2.3 | 26.2 | 261.9 | OK |
| 133.3 | 18.6 | -15.7 | -1.9 | 173.3 | 24.2 | -20.4 | -2.5 | 0.9 | 13.8 | OK | 81.4 | -1.1 | 81.4 | 261.9 | OK |
| 177.0 | 24.7 | -8.0 | 5.5 | 230.1 | 32.1 | -10.4 | 7.2 | 1.2 | 13.8 | OK | 45.5 | 3.3 | 45.9 | 261.9 | OK |
| 277.7 | 38.8 | -13.0 | 49.8 | 361.0 | 50.4 | -16.9 | 64.8 | 1.8 | 13.8 | OK | 73.9 | 29.9 | 90.2 | 261.9 | OK |
| 280.6 | 39.2 | -1.7 | -13.6 | 364.7 | 51.0 | -2.3 | -17.7 | 1.8 | 13.8 | OK | 19.4 | -8.2 | 24.0 | 261.9 | OK |
| 410.5 | 57.3 | 14.1 | -32.7 | 533.6 | 74.6 | 18.3 | -42.4 | 2.7 | 13.8 | OK | 84.2 | -19.6 | 90.7 | 261.9 | OK |
| 289.2 | 40.4 | -3.7 | 12.9 | 375.9 | 52.5 | -4.8 | 16.8 | 1.9 | 13.8 | OK | 29.1 | 7.7 | 32.1 | 261.9 | OK |
| 318.9 | 44.5 | -11.7 | -5.0 | 414.5 | 57.9 | -15.3 | -6.4 | 2.1 | 13.8 | OK | 69.4 | -3.0 | 69.5 | 261.9 | OK |
| 263.5 | 36.8 | -27.3 | -100.3 | 342.6 | 47.9 | -35.5 | -130.3 | 1.7 | 13.8 | OK | 142.7 | -60.2 | 176.7 | 261.9 | OK |
| 355.6 | 49.7 | 4.4 | -16.2 | 462.3 | 64.6 | 5.7 | -21.1 | 2.3 | 13.8 | OK | 35.1 | -9.7 | 38.9 | 261.9 | OK |
| 793.9 | 110.9 | 16.7 | 19.2 | 1032.1 | 144.2 | 21.8 | 25.0 | 5.2 | 13.8 | OK | 112.1 | 11.5 | 113.9 | 261.9 | OK |
| 219.3 | 30.6 | -4.6 | -85.4 | 285.1 | 39.8 | -6.0 | -111.0 | 1.4 | 13.8 | OK | 30.8 | -51.3 | 94.0 | 261.9 | OK |
| 140.1 | 19.6 | -23.9 | -0.2 | 182.1 | 25.4 | -31.1 | -0.3 | 0.9 | 13.8 | OK | 121.4 | -0.1 | 121.4 | 261.9 | OK |
| 0.0 | -34.3 | 7.1 | 10.5 | 0.0 | -44.6 | 9.2 | 13.7 | 0.0 | 13.8 | OK | 43.8 | 6.3 | 45.1 | 261.9 | OK |
| 0.0 | -115.1 | -16.3 | -64.2 | 0.0 | -149.6 | -21.2 | -83.4 | 0.0 | 13.8 | OK | 111.1 | -38.5 | 129.6 | 261.9 | OK |
| 156.9 | 21.9 | -21.0 | 15.1 | 203.9 | 28.5 | -27.3 | 19.6 | 1.0 | 13.8 | OK | 107.9 | 9.1 | 109.0 | 261.9 | OK |
| 98.6 | 13.8 | -3.9 | 44.1 | 128.2 | 17.9 | -5.1 | 57.3 | 0.6 | 13.8 | OK | 22.7 | 26.5 | 51.1 | 261.9 | OK |
| 299.8 | 41.9 | -0.4 | -15.3 | 389.7 | 54.4 | -0.5 | -19.9 | 1.9 | 13.8 | OK | 13.7 | -9.2 | 21.0 | 261.9 | OK |
| 227.6 | 31.8 | -3.7 | 78.0 | 295.9 | 41.3 | -4.9 | 101.4 | 1.5 | 13.8 | OK | 27.0 | 46.8 | 85.4 | 261.9 | OK |
| 325.1 | 45.4 | -2.7 | -9.5 | 422.6 | 59.0 | -3.5 | -12.4 | 2.1 | 13.8 | OK | 25.9 | -5.7 | 27.7 | 261.9 | OK |
| 244.7 | 34.2 | -7.8 | -62.4 | 318.2 | 44.5 | -10.2 | -81.2 | 1.6 | 13.8 | OK | 47.5 | -37.5 | 80.4 | 261.9 | OK |
| 148.4 | 20.7 | -24.4 | -10.9 | 192.9 | 27.0 | -31.7 | -14.1 | 1.0 | 13.8 | OK | 124.0 | -6.5 | 124.5 | 261.9 | OK |
| 115.4 | 16.1 | -4.8 | 0.2 | 150.1 | 21.0 | -6.2 | 0.3 | 0.8 | 13.8 | OK | 27.7 | 0.1 | 27.7 | 261.9 | OK |
| 20.5 | 2.9 | -14.4 | 28.2 | 26.6 | 3.7 | -18.8 | 36.6 | 0.1 | 13.8 | OK | 70.7 | 16.9 | 76.6 | 261.9 | OK |
| 122.7 | 17.1 | -16.5 | 10.6 | 159.6 | 22.3 | -21.5 | 13.8 | 0.8 | 13.8 | OK | 84.8 | 6.4 | 85.5 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|-------|-------|-------|--------|-------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 162.9 | 22.8 | -21.2 | 0.1 | 211.8 | 29.6 | -27.6 | 0.1 | 1.1 | 13.8 | OK | 109.1 | 0.1 | 109.1 | 261.9 | OK |
| 201.8 | 28.2 | -19.3 | -27.3 | 262.3 | 36.6 | -25.1 | -35.5 | 1.3 | 13.8 | OK | 101.5 | -16.4 | 105.4 | 261.9 | OK |
| 206.4 | 28.8 | -23.5 | 13.4 | 268.3 | 37.5 | -30.5 | 17.4 | 1.3 | 13.8 | OK | 121.8 | 8.0 | 122.6 | 261.9 | OK |
| 0.0 | -57.8 | -1.5 | 21.1 | 0.0 | -75.1 | -1.9 | 27.4 | 0.0 | 13.8 | OK | 23.4 | 12.7 | 32.0 | 261.9 | OK |
| 1438.6 | 193.0 | 0.8 | -24.2 | 1870.2 | 250.8 | 1.0 | -31.4 | 7.5 | 13.8 | OK | 48.2 | -12.1 | 52.5 | 261.9 | OK |
| 0.0 | -32.9 | 5.1 | -8.2 | 0.0 | -42.8 | 6.6 | -10.7 | 0.0 | 13.8 | OK | 28.2 | -4.1 | 29.1 | 261.9 | OK |
| 896.3 | 120.2 | 38.3 | 169.6 | 1165.2 | 156.3 | 49.8 | 220.5 | 4.7 | 13.8 | OK | 182.5 | 84.8 | 234.3 | 261.9 | OK |
| 124.9 | 16.8 | 5.0 | 12.1 | 162.4 | 21.8 | 6.5 | 15.7 | 0.6 | 13.8 | OK | 24.0 | 6.0 | 26.2 | 261.9 | OK |
| 150.1 | 20.1 | -9.7 | 3.5 | 195.1 | 26.2 | -12.6 | 4.6 | 0.8 | 13.8 | OK | 43.7 | 1.8 | 43.8 | 261.9 | OK |
| 131.1 | 17.6 | 5.3 | 9.1 | 170.4 | 22.9 | 6.9 | 11.9 | 0.7 | 13.8 | OK | 25.5 | 4.6 | 26.7 | 261.9 | OK |
| 118.9 | 15.9 | -1.4 | 9.3 | 154.5 | 20.7 | -1.8 | 12.0 | 0.6 | 13.8 | OK | 9.4 | 4.6 | 12.4 | 261.9 | OK |
| 91.2 | 12.2 | 3.3 | 15.9 | 118.6 | 15.9 | 4.3 | 20.7 | 0.5 | 13.8 | OK | 16.3 | 7.9 | 21.4 | 261.9 | OK |
| 111.8 | 15.0 | -2.7 | 8.7 | 145.3 | 19.5 | -3.6 | 11.3 | 0.6 | 13.8 | OK | 14.6 | 4.3 | 16.4 | 261.9 | OK |
| 0.0 | -5.3 | 9.6 | -4.5 | 0.0 | -6.8 | 12.5 | -5.8 | 0.0 | 13.8 | OK | 40.0 | -2.2 | 40.1 | 261.9 | OK |
| 77.2 | 10.4 | -0.2 | 13.7 | 100.4 | 13.5 | -0.2 | 17.8 | 0.4 | 13.8 | OK | 3.1 | 6.8 | 12.2 | 261.9 | OK |
| 80.9 | 10.8 | 3.4 | 3.6 | 105.1 | 14.1 | 4.4 | 4.7 | 0.4 | 13.8 | OK | 16.2 | 1.8 | 16.6 | 261.9 | OK |
| 309.7 | 41.5 | 5.0 | 24.0 | 402.7 | 54.0 | 6.5 | 31.2 | 1.6 | 13.8 | OK | 29.7 | 12.0 | 36.3 | 261.9 | OK |
| 53.9 | 7.2 | -2.6 | 2.0 | 70.1 | 9.4 | -3.4 | 2.6 | 0.3 | 13.8 | OK | 12.3 | 1.0 | 12.4 | 261.9 | OK |
| 113.4 | 15.2 | -9.7 | -13.3 | 147.4 | 19.8 | -12.6 | -17.3 | 0.6 | 13.8 | OK | 42.5 | -6.6 | 44.1 | 261.9 | OK |
| 254.1 | 34.1 | -16.1 | -5.2 | 330.4 | 44.3 | -21.0 | -6.7 | 1.3 | 13.8 | OK | 73.0 | -2.6 | 73.2 | 261.9 | OK |
| 683.1 | 91.6 | 12.6 | 59.1 | 888.1 | 119.1 | 16.4 | 76.8 | 3.6 | 13.8 | OK | 72.1 | 29.5 | 88.4 | 261.9 | OK |
| 671.7 | 90.1 | 8.0 | 29.0 | 873.2 | 117.1 | 10.4 | 37.8 | 3.5 | 13.8 | OK | 53.2 | 14.5 | 58.8 | 261.9 | OK |
| 896.3 | 120.2 | 38.3 | 169.6 | 1165.2 | 156.3 | 49.8 | 220.5 | 4.7 | 13.8 | OK | 182.5 | 84.8 | 234.3 | 261.9 | OK |
| 129.5 | 17.4 | -5.1 | 5.1 | 168.3 | 22.6 | -6.7 | 6.6 | 0.7 | 13.8 | OK | 24.8 | 2.6 | 25.2 | 261.9 | OK |
| 177.9 | 23.9 | 4.2 | 45.0 | 231.2 | 31.0 | 5.4 | 58.5 | 0.9 | 13.8 | OK | 22.4 | 22.5 | 45.0 | 261.9 | OK |
| 498.3 | 66.8 | 3.7 | 39.8 | 647.7 | 86.9 | 4.8 | 51.8 | 2.6 | 13.8 | OK | 30.5 | 19.9 | 46.0 | 261.9 | OK |
| 65.4 | 8.8 | -1.6 | -1.1 | 85.0 | 11.4 | -2.1 | -1.4 | 0.3 | 13.8 | OK | 8.7 | -0.5 | 8.7 | 261.9 | OK |
| 182.7 | 24.5 | 4.4 | 3.5 | 237.5 | 31.8 | 5.8 | 4.6 | 0.9 | 13.8 | OK | 23.6 | 1.8 | 23.8 | 261.9 | OK |
| 191.9 | 25.7 | 4.6 | 10.5 | 249.5 | 33.5 | 6.0 | 13.7 | 1.0 | 13.8 | OK | 24.7 | 5.3 | 26.4 | 261.9 | OK |
| 65.7 | 8.8 | 0.1 | 7.0 | 85.5 | 11.5 | 0.2 | 9.1 | 0.3 | 13.8 | OK | 2.5 | 3.5 | 6.6 | 261.9 | OK |
| 73.7 | 9.9 | 8.9 | 31.9 | 95.8 | 12.9 | 11.5 | 41.4 | 0.4 | 13.8 | OK | 38.1 | 15.9 | 47.1 | 261.9 | OK |
| 142.3 | 19.1 | 7.6 | 5.9 | 185.0 | 24.8 | 9.9 | 7.7 | 0.7 | 13.8 | OK | 35.2 | 2.9 | 35.6 | 261.9 | OK |
| 102.8 | 13.8 | 0.7 | 7.5 | 133.6 | 17.9 | 1.0 | 9.8 | 0.5 | 13.8 | OK | 6.2 | 3.8 | 9.0 | 261.9 | OK |
| 66.8 | 9.0 | -2.4 | -2.5 | 86.8 | 11.6 | -3.2 | -3.2 | 0.3 | 13.8 | OK | 11.9 | -1.2 | 12.1 | 261.9 | OK |
| 86.9 | 11.7 | -2.7 | -0.9 | 113.0 | 15.2 | -3.5 | -1.2 | 0.5 | 13.8 | OK | 13.5 | -0.5 | 13.5 | 261.9 | OK |
| 226.1 | 30.3 | 3.5 | 24.6 | 293.9 | 39.4 | 4.6 | 32.0 | 1.2 | 13.8 | OK | 21.4 | 12.3 | 30.2 | 261.9 | OK |
| 37.6 | 5.0 | 0.8 | -6.4 | 48.9 | 6.6 | 1.0 | -8.3 | 0.2 | 13.8 | OK | 4.3 | -3.2 | 7.1 | 261.9 | OK |
| 0.0 | -4.5 | 7.4 | -1.1 | 0.0 | -5.9 | 9.6 | -1.4 | 0.0 | 13.8 | OK | 30.9 | -0.5 | 30.9 | 261.9 | OK |
| 49.2 | 6.6 | -1.6 | -7.5 | 63.9 | 8.6 | -2.1 | -9.8 | 0.3 | 13.8 | OK | 8.1 | -3.8 | 10.4 | 261.9 | OK |
| 4.2 | 0.6 | 5.2 | -0.7 | 5.4 | 0.7 | 6.8 | -0.9 | 0.0 | 13.8 | OK | 21.1 | -0.3 | 21.1 | 261.9 | OK |
| 167.1 | 22.4 | -6.6 | 1.1 | 217.3 | 29.1 | -8.6 | 1.4 | 0.9 | 13.8 | OK | 31.9 | 0.5 | 31.9 | 261.9 | OK |
| 23.2 | 3.1 | 1.2 | -1.0 | 30.1 | 4.0 | 1.5 | -1.3 | 0.1 | 13.8 | OK | 5.4 | -0.5 | 5.5 | 261.9 | OK |
| 290.7 | 39.0 | 3.8 | 27.6 | 377.9 | 50.7 | 4.9 | 35.9 | 1.5 | 13.8 | OK | 24.2 | 13.8 | 34.1 | 261.9 | OK |
| 56.9 | 7.6 | 8.4 | 26.7 | 73.9 | 9.9 | 11.0 | 34.7 | 0.3 | 13.8 | OK | 35.8 | 13.3 | 42.6 | 261.9 | OK |
| 33.0 | 4.4 | -2.7 | -16.1 | 42.9 | 5.8 | -3.5 | -20.9 | 0.2 | 13.8 | OK | 11.8 | -8.0 | 18.2 | 261.9 | OK |
| 6.3 | 0.8 | 3.3 | -1.2 | 8.2 | 1.1 | 4.3 | -1.6 | 0.0 | 13.8 | OK | 13.5 | -0.6 | 13.6 | 261.9 | OK |
| 14.5 | 1.9 | 4.7 | -4.5 | 18.9 | 2.5 | 6.1 | -5.9 | 0.1 | 13.8 | OK | 19.3 | -2.3 | 19.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|-------|-------|-------|--------|-------|-------|-------|-----|------|----|------|-------|------|-------|----|
| 18.5 | 2.5 | 2.1 | -4.5 | 24.0 | 3.2 | 2.8 | -5.9 | 0.1 | 13.8 | OK | 9.2 | -2.3 | 10.0 | 261.9 | OK |
| 75.9 | 10.2 | -2.9 | -5.8 | 98.7 | 13.2 | -3.7 | -7.5 | 0.4 | 13.8 | OK | 13.9 | -2.9 | 14.8 | 261.9 | OK |
| 115.0 | 15.4 | -7.7 | 1.5 | 149.4 | 20.0 | -10.0 | 2.0 | 0.6 | 13.8 | OK | 34.8 | 0.8 | 34.8 | 261.9 | OK |
| 23.6 | 3.2 | 4.9 | -6.3 | 30.6 | 4.1 | 6.4 | -8.1 | 0.1 | 13.8 | OK | 20.5 | -3.1 | 21.2 | 261.9 | OK |
| 6.5 | 0.9 | 5.7 | -8.3 | 8.5 | 1.1 | 7.4 | -10.8 | 0.0 | 13.8 | OK | 23.1 | -4.2 | 24.2 | 261.9 | OK |
| 53.7 | 7.2 | -1.6 | -8.8 | 69.8 | 9.4 | -2.1 | -11.4 | 0.3 | 13.8 | OK | 8.1 | -4.4 | 11.1 | 261.9 | OK |
| 88.3 | 11.8 | -7.8 | -7.7 | 114.9 | 15.4 | -10.2 | -10.0 | 0.5 | 13.8 | OK | 34.4 | -3.9 | 35.0 | 261.9 | OK |
| 75.8 | 10.2 | -4.2 | 3.3 | 98.5 | 13.2 | -5.5 | 4.3 | 0.4 | 13.8 | OK | 19.5 | 1.6 | 19.7 | 261.9 | OK |
| 98.4 | 13.2 | -7.2 | -5.9 | 127.9 | 17.2 | -9.4 | -7.7 | 0.5 | 13.8 | OK | 32.1 | -3.0 | 32.5 | 261.9 | OK |
| 134.5 | 18.0 | -7.6 | 6.3 | 174.8 | 23.5 | -9.9 | 8.2 | 0.7 | 13.8 | OK | 35.0 | 3.1 | 35.4 | 261.9 | OK |
| 66.2 | 8.9 | 8.2 | 22.7 | 86.1 | 11.5 | 10.7 | 29.5 | 0.3 | 13.8 | OK | 35.3 | 11.4 | 40.4 | 261.9 | OK |
| 184.8 | 24.8 | -7.7 | 11.9 | 240.2 | 32.2 | -10.0 | 15.4 | 1.0 | 13.8 | OK | 36.9 | 5.9 | 38.3 | 261.9 | OK |
| 206.3 | 27.7 | 3.6 | 37.9 | 268.1 | 36.0 | 4.7 | 49.3 | 1.1 | 13.8 | OK | 20.9 | 19.0 | 38.9 | 261.9 | OK |
| 30.1 | 4.0 | -0.2 | 1.0 | 39.1 | 5.2 | -0.2 | 1.3 | 0.2 | 13.8 | OK | 1.7 | 0.5 | 1.9 | 261.9 | OK |
| 438.0 | 58.7 | 0.2 | 40.2 | 569.4 | 76.4 | 0.3 | 52.2 | 2.3 | 13.8 | OK | 14.5 | 20.1 | 37.7 | 261.9 | OK |
| 109.1 | 14.6 | 3.3 | 17.3 | 141.8 | 19.0 | 4.3 | 22.5 | 0.6 | 13.8 | OK | 16.7 | 8.7 | 22.5 | 261.9 | OK |
| 101.9 | 13.7 | 1.7 | 15.6 | 132.4 | 17.8 | 2.2 | 20.3 | 0.5 | 13.8 | OK | 10.1 | 7.8 | 16.9 | 261.9 | OK |
| 13.8 | 1.9 | 8.4 | -0.5 | 17.9 | 2.4 | 10.9 | -0.6 | 0.1 | 13.8 | OK | 34.2 | -0.2 | 34.2 | 261.9 | OK |
| 146.7 | 19.7 | 7.9 | 12.8 | 190.8 | 25.6 | 10.3 | 16.7 | 0.8 | 13.8 | OK | 36.4 | 6.4 | 38.1 | 261.9 | OK |
| 76.8 | 10.3 | -2.7 | 4.0 | 99.9 | 13.4 | -3.5 | 5.2 | 0.4 | 13.8 | OK | 13.4 | 2.0 | 13.8 | 261.9 | OK |
| 103.0 | 13.8 | 0.0 | 6.0 | 133.9 | 18.0 | 0.0 | 7.8 | 0.5 | 13.8 | OK | 3.4 | 3.0 | 6.2 | 261.9 | OK |
| 34.4 | 4.6 | -0.1 | -2.4 | 44.8 | 6.0 | -0.1 | -3.1 | 0.2 | 13.8 | OK | 1.5 | -1.2 | 2.6 | 261.9 | OK |
| 228.7 | 30.7 | -9.1 | 2.6 | 297.4 | 39.9 | -11.9 | 3.4 | 1.2 | 13.8 | OK | 44.0 | 1.3 | 44.1 | 261.9 | OK |
| 46.3 | 6.2 | 9.2 | 30.5 | 60.3 | 8.1 | 12.0 | 39.6 | 0.2 | 13.8 | OK | 38.7 | 15.2 | 46.8 | 261.9 | OK |
| 115.9 | 15.5 | 1.8 | -3.7 | 150.6 | 20.2 | 2.3 | -4.9 | 0.6 | 13.8 | OK | 10.9 | -1.9 | 11.3 | 261.9 | OK |
| 292.2 | 39.2 | -11.0 | -0.5 | 379.8 | 50.9 | -14.4 | -0.7 | 1.5 | 13.8 | OK | 53.7 | -0.3 | 53.7 | 261.9 | OK |
| 33.6 | 4.5 | -2.6 | 3.0 | 43.7 | 5.9 | -3.4 | 3.9 | 0.2 | 13.8 | OK | 11.5 | 1.5 | 11.8 | 261.9 | OK |
| 407.6 | 54.7 | 11.7 | -54.6 | 529.9 | 71.1 | 15.2 | -71.0 | 2.1 | 13.8 | OK | 60.1 | -27.3 | 76.5 | 261.9 | OK |
| 91.9 | 12.3 | -4.9 | -1.9 | 119.5 | 16.0 | -6.4 | -2.5 | 0.5 | 13.8 | OK | 22.9 | -1.0 | 22.9 | 261.9 | OK |
| 1225.4 | 164.3 | 1.0 | -40.1 | 1593.0 | 213.7 | 1.3 | -52.1 | 6.4 | 13.8 | OK | 42.2 | -20.0 | 54.7 | 261.9 | OK |
| 481.8 | 64.6 | 3.2 | -26.5 | 626.4 | 84.0 | 4.2 | -34.5 | 2.5 | 13.8 | OK | 28.0 | -13.3 | 36.2 | 261.9 | OK |
| 253.7 | 34.0 | 5.9 | -23.9 | 329.8 | 44.2 | 7.7 | -31.1 | 1.3 | 13.8 | OK | 31.8 | -12.0 | 37.9 | 261.9 | OK |
| 134.8 | 18.1 | -7.2 | -4.3 | 175.3 | 23.5 | -9.4 | -5.7 | 0.7 | 13.8 | OK | 33.5 | -2.2 | 33.7 | 261.9 | OK |
| 156.7 | 21.0 | -4.6 | -1.0 | 203.7 | 27.3 | -6.0 | -1.3 | 0.8 | 13.8 | OK | 23.4 | -0.5 | 23.4 | 261.9 | OK |
| 0.0 | -11.4 | 9.4 | 2.9 | 0.0 | -14.8 | 12.3 | 3.8 | 0.0 | 13.8 | OK | 40.7 | 1.4 | 40.8 | 261.9 | OK |
| 45.7 | 6.1 | 4.9 | -36.8 | 59.4 | 8.0 | 6.4 | -47.8 | 0.2 | 13.8 | OK | 21.2 | -18.4 | 38.3 | 261.9 | OK |
| 107.9 | 14.5 | -2.5 | -7.7 | 140.3 | 18.8 | -3.3 | -10.1 | 0.6 | 13.8 | OK | 13.7 | -3.9 | 15.2 | 261.9 | OK |
| 79.4 | 10.6 | -9.7 | 14.2 | 103.2 | 13.8 | -12.6 | 18.4 | 0.4 | 13.8 | OK | 41.6 | 7.1 | 43.3 | 261.9 | OK |
| 213.4 | 28.6 | -11.7 | -1.9 | 277.4 | 37.2 | -15.3 | -2.5 | 1.1 | 13.8 | OK | 54.1 | -0.9 | 54.1 | 261.9 | OK |
| 71.8 | 9.6 | -3.1 | 1.9 | 93.3 | 12.5 | -4.1 | 2.5 | 0.4 | 13.8 | OK | 14.9 | 1.0 | 15.0 | 261.9 | OK |
| 104.7 | 14.0 | -4.5 | -3.7 | 136.1 | 18.3 | -5.9 | -4.8 | 0.5 | 13.8 | OK | 21.6 | -1.8 | 21.9 | 261.9 | OK |
| 241.1 | 32.3 | 8.9 | -65.5 | 313.4 | 42.0 | 11.5 | -85.1 | 1.3 | 13.8 | OK | 43.4 | -32.7 | 71.4 | 261.9 | OK |
| 87.8 | 11.8 | -4.2 | -3.2 | 114.1 | 15.3 | -5.4 | -4.2 | 0.5 | 13.8 | OK | 19.6 | -1.6 | 19.8 | 261.9 | OK |
| 132.6 | 17.8 | 2.8 | -1.9 | 172.3 | 23.1 | 3.7 | -2.5 | 0.7 | 13.8 | OK | 15.5 | -0.9 | 15.6 | 261.9 | OK |
| 239.3 | 32.1 | -8.1 | -6.9 | 311.1 | 41.7 | -10.5 | -9.0 | 1.2 | 13.8 | OK | 40.1 | -3.5 | 40.6 | 261.9 | OK |
| 71.4 | 9.6 | -3.9 | -2.4 | 92.8 | 12.4 | -5.1 | -3.2 | 0.4 | 13.8 | OK | 18.1 | -1.2 | 18.2 | 261.9 | OK |
| 141.0 | 18.9 | 2.9 | -0.4 | 183.3 | 24.6 | 3.7 | -0.5 | 0.7 | 13.8 | OK | 16.0 | -0.2 | 16.0 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|-------|-------|-------|--------|-------|-------|--------|-----|------|----|-------|-------|-------|-------|----|
| 261.2 | 35.0 | 5.0 | -11.9 | 339.6 | 45.5 | 6.6 | -15.5 | 1.4 | 13.8 | OK | 28.5 | -5.9 | 30.3 | 261.9 | OK |
| 666.5 | 89.4 | 9.2 | -57.6 | 866.4 | 116.2 | 12.0 | -74.9 | 3.5 | 13.8 | OK | 58.2 | -28.8 | 76.6 | 261.9 | OK |
| 111.7 | 15.0 | -2.6 | -3.3 | 145.2 | 19.5 | -3.4 | -4.3 | 0.6 | 13.8 | OK | 14.0 | -1.7 | 14.3 | 261.9 | OK |
| 350.7 | 47.0 | 14.0 | -69.1 | 455.9 | 61.2 | 18.2 | -89.8 | 1.8 | 13.8 | OK | 67.4 | -34.5 | 90.1 | 261.9 | OK |
| 5.4 | 0.7 | 2.8 | 2.8 | 7.0 | 0.9 | 3.7 | 3.6 | 0.0 | 13.8 | OK | 11.6 | 1.4 | 11.8 | 261.9 | OK |
| 0.0 | -7.6 | 6.8 | 2.8 | 0.0 | -9.8 | 8.9 | 3.7 | 0.0 | 13.8 | OK | 29.3 | 1.4 | 29.4 | 261.9 | OK |
| 45.9 | 6.2 | -3.9 | 2.7 | 59.7 | 8.0 | -5.1 | 3.5 | 0.2 | 13.8 | OK | 17.3 | 1.3 | 17.4 | 261.9 | OK |
| 117.7 | 15.8 | -8.4 | 5.5 | 153.0 | 20.5 | -10.9 | 7.2 | 0.6 | 13.8 | OK | 37.4 | 2.8 | 37.7 | 261.9 | OK |
| 59.9 | 8.0 | -2.8 | 9.9 | 77.9 | 10.4 | -3.6 | 12.9 | 0.3 | 13.8 | OK | 13.1 | 5.0 | 15.6 | 261.9 | OK |
| 98.5 | 13.2 | -8.9 | 8.1 | 128.1 | 17.2 | -11.6 | 10.6 | 0.5 | 13.8 | OK | 39.1 | 4.1 | 39.8 | 261.9 | OK |
| 57.3 | 7.7 | -3.7 | -3.8 | 74.5 | 10.0 | -4.9 | -4.9 | 0.3 | 13.8 | OK | 16.9 | -1.9 | 17.2 | 261.9 | OK |
| 28.4 | 3.8 | 0.9 | 1.9 | 36.9 | 5.0 | 1.2 | 2.5 | 0.1 | 13.8 | OK | 4.5 | 1.0 | 4.8 | 261.9 | OK |
| 41.6 | 5.6 | 0.5 | 5.4 | 54.0 | 7.2 | 0.7 | 7.0 | 0.2 | 13.8 | OK | 3.4 | 2.7 | 5.8 | 261.9 | OK |
| 80.5 | 10.8 | -4.9 | -3.0 | 104.6 | 14.0 | -6.4 | -3.9 | 0.4 | 13.8 | OK | 22.5 | -1.5 | 22.6 | 261.9 | OK |
| 128.1 | 17.2 | -9.1 | 0.9 | 166.5 | 22.3 | -11.8 | 1.1 | 0.7 | 13.8 | OK | 40.6 | 0.4 | 40.6 | 261.9 | OK |
| 28.9 | 3.9 | -2.7 | 10.6 | 37.6 | 5.0 | -3.5 | 13.8 | 0.2 | 13.8 | OK | 11.6 | 5.3 | 14.8 | 261.9 | OK |
| 10.1 | 1.4 | 5.0 | 2.7 | 13.2 | 1.8 | 6.5 | 3.5 | 0.1 | 13.8 | OK | 20.3 | 1.4 | 20.5 | 261.9 | OK |
| 14.3 | 1.9 | 1.4 | 5.6 | 18.6 | 2.5 | 1.9 | 7.3 | 0.1 | 13.8 | OK | 6.3 | 2.8 | 8.0 | 261.9 | OK |
| 12.1 | 1.6 | 8.2 | 1.1 | 15.7 | 2.1 | 10.6 | 1.4 | 0.1 | 13.8 | OK | 33.4 | 0.5 | 33.4 | 261.9 | OK |
| 70.7 | 9.5 | -4.7 | 7.9 | 91.9 | 12.3 | -6.1 | 10.2 | 0.4 | 13.8 | OK | 21.1 | 3.9 | 22.2 | 261.9 | OK |
| 40.6 | 5.5 | -3.3 | 7.7 | 52.8 | 7.1 | -4.3 | 10.0 | 0.2 | 13.8 | OK | 14.7 | 3.8 | 16.2 | 261.9 | OK |
| 159.7 | 21.4 | -8.9 | -9.7 | 207.7 | 27.9 | -11.6 | -12.6 | 0.8 | 13.8 | OK | 40.9 | -4.9 | 41.7 | 261.9 | OK |
| 77.7 | 10.4 | -4.4 | 5.3 | 101.0 | 13.6 | -5.7 | 6.9 | 0.4 | 13.8 | OK | 20.0 | 2.7 | 20.5 | 261.9 | OK |
| 15.0 | 2.0 | 3.7 | 6.2 | 19.4 | 2.6 | 4.8 | 8.1 | 0.1 | 13.8 | OK | 15.3 | 3.1 | 16.2 | 261.9 | OK |
| 112.9 | 15.1 | -4.4 | 0.5 | 146.8 | 19.7 | -5.7 | 0.7 | 0.6 | 13.8 | OK | 21.3 | 0.3 | 21.3 | 261.9 | OK |
| 23.8 | 3.2 | 4.0 | 8.0 | 30.9 | 4.2 | 5.2 | 10.3 | 0.1 | 13.8 | OK | 16.8 | 4.0 | 18.2 | 261.9 | OK |
| 1.5 | 0.2 | 3.6 | 10.8 | 1.9 | 0.3 | 4.7 | 14.0 | 0.0 | 13.8 | OK | 14.6 | 5.4 | 17.3 | 261.9 | OK |
| 477.3 | 64.0 | 12.5 | -79.7 | 620.5 | 83.2 | 16.3 | -103.6 | 2.5 | 13.8 | OK | 65.5 | -39.8 | 95.2 | 261.9 | OK |
| 71.0 | 9.5 | -3.2 | -7.2 | 92.3 | 12.4 | -4.2 | -9.4 | 0.4 | 13.8 | OK | 15.2 | -3.6 | 16.5 | 261.9 | OK |
| 123.1 | 16.5 | 2.5 | -25.7 | 160.1 | 21.5 | 3.3 | -33.5 | 0.6 | 13.8 | OK | 14.0 | -12.9 | 26.3 | 261.9 | OK |
| 227.1 | 30.5 | -10.1 | 0.9 | 295.2 | 39.6 | -13.1 | 1.2 | 1.2 | 13.8 | OK | 47.7 | 0.5 | 47.7 | 261.9 | OK |
| 117.9 | 15.8 | 0.3 | -7.4 | 153.2 | 20.6 | 0.3 | -9.6 | 0.6 | 13.8 | OK | 4.7 | -3.7 | 8.0 | 261.9 | OK |
| 107.2 | 14.4 | 0.0 | -8.0 | 139.3 | 18.7 | 0.1 | -10.5 | 0.6 | 13.8 | OK | 3.5 | -4.0 | 7.8 | 261.9 | OK |
| 29.3 | 3.9 | -2.0 | 2.2 | 38.1 | 5.1 | -2.6 | 2.9 | 0.2 | 13.8 | OK | 8.8 | 1.1 | 9.1 | 261.9 | OK |
| 47.9 | 6.4 | 2.5 | -20.3 | 62.3 | 8.4 | 3.3 | -26.4 | 0.2 | 13.8 | OK | 11.8 | -10.2 | 21.2 | 261.9 | OK |
| 1012.0 | 135.7 | 8.8 | -91.2 | 1315.6 | 176.4 | 11.4 | -118.5 | 5.3 | 13.8 | OK | 67.1 | -45.6 | 103.6 | 261.9 | OK |
| 182.6 | 24.5 | 13.2 | -61.6 | 237.3 | 31.8 | 17.2 | -80.1 | 0.9 | 13.8 | OK | 59.0 | -30.8 | 79.6 | 261.9 | OK |
| 191.5 | 25.7 | -9.3 | -4.1 | 249.0 | 33.4 | -12.1 | -5.4 | 1.0 | 13.8 | OK | 43.4 | -2.1 | 43.6 | 261.9 | OK |
| 763.1 | 102.3 | 15.1 | -82.5 | 992.0 | 133.0 | 19.6 | -107.3 | 4.0 | 13.8 | OK | 84.6 | -41.3 | 110.8 | 261.9 | OK |
| 74.5 | 10.0 | 0.4 | -1.3 | 96.9 | 13.0 | 0.6 | -1.7 | 0.4 | 13.8 | OK | 4.1 | -0.6 | 4.2 | 261.9 | OK |
| 27.5 | 3.7 | 5.7 | -26.0 | 35.7 | 4.8 | 7.5 | -33.7 | 0.1 | 13.8 | OK | 24.0 | -13.0 | 32.9 | 261.9 | OK |
| 201.3 | 27.0 | 12.9 | 42.3 | 261.7 | 35.1 | 16.8 | 55.0 | 1.0 | 13.8 | OK | 58.4 | 21.2 | 68.9 | 261.9 | OK |
| 297.5 | 39.9 | -11.2 | 3.7 | 386.8 | 51.9 | -14.6 | 4.8 | 1.5 | 13.8 | OK | 54.7 | 1.8 | 54.8 | 261.9 | OK |
| 188.5 | 25.3 | -5.1 | 13.9 | 245.1 | 32.9 | -6.6 | 18.0 | 1.0 | 13.8 | OK | 26.3 | 6.9 | 28.9 | 261.9 | OK |
| 103.5 | 13.9 | -8.3 | -3.8 | 134.5 | 18.0 | -10.8 | -4.9 | 0.5 | 13.8 | OK | 36.9 | -1.9 | 37.1 | 261.9 | OK |
| 727.9 | 97.6 | 23.4 | 73.3 | 946.3 | 126.9 | 30.4 | 95.3 | 3.8 | 13.8 | OK | 117.1 | 36.7 | 133.2 | 261.9 | OK |
| 53.8 | 7.2 | -4.6 | -9.1 | 69.9 | 9.4 | -6.0 | -11.8 | 0.3 | 13.8 | OK | 20.4 | -4.6 | 21.8 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|------|-------|--------|-------|-------|-------|-----|------|----|------|------|-------|-------|----|
| 174.7 | 23.4 | 5.8 | 15.9 | 227.1 | 30.5 | 7.5 | 20.7 | 0.9 | 13.8 | OK | 28.9 | 8.0 | 32.0 | 261.9 | OK |
| 223.8 | 30.0 | 16.1 | 33.0 | 290.9 | 39.0 | 20.9 | 42.9 | 1.2 | 13.8 | OK | 71.9 | 16.5 | 77.4 | 261.9 | OK |
| 8.2 | 1.1 | 4.2 | -4.1 | 10.6 | 1.4 | 5.5 | -5.3 | 0.0 | 13.8 | OK | 17.3 | -2.0 | 17.6 | 261.9 | OK |
| 0.0 | -32.9 | 5.1 | -8.2 | 0.0 | -42.8 | 6.6 | -10.7 | 0.0 | 13.8 | OK | 28.2 | -4.1 | 29.1 | 261.9 | OK |
| 125.2 | 16.8 | 17.1 | 42.3 | 162.8 | 21.8 | 22.2 | 55.0 | 0.7 | 13.8 | OK | 72.9 | 21.2 | 81.6 | 261.9 | OK |
| 23.6 | 3.2 | -0.6 | -10.1 | 30.6 | 4.1 | -0.7 | -13.2 | 0.1 | 13.8 | OK | 3.0 | -5.1 | 9.3 | 261.9 | OK |
| 88.7 | 11.9 | 14.6 | 46.8 | 115.4 | 15.5 | 18.9 | 60.9 | 0.5 | 13.8 | OK | 61.6 | 23.4 | 73.8 | 261.9 | OK |
| 235.0 | 31.5 | -3.1 | 13.7 | 305.5 | 41.0 | -4.1 | 17.8 | 1.2 | 13.8 | OK | 19.9 | 6.8 | 23.2 | 261.9 | OK |
| 202.1 | 27.1 | 14.8 | 42.7 | 262.8 | 35.2 | 19.2 | 55.5 | 1.1 | 13.8 | OK | 66.1 | 21.3 | 75.7 | 261.9 | OK |
| 161.1 | 21.6 | 17.1 | -1.4 | 209.4 | 28.1 | 22.3 | -1.9 | 0.8 | 13.8 | OK | 74.3 | -0.7 | 74.3 | 261.9 | OK |
| 289.8 | 38.9 | -6.6 | 10.4 | 376.7 | 50.5 | -8.6 | 13.5 | 1.5 | 13.8 | OK | 35.7 | 5.2 | 36.8 | 261.9 | OK |
| 139.5 | 18.7 | 5.7 | 19.0 | 181.3 | 24.3 | 7.5 | 24.7 | 0.7 | 13.8 | OK | 27.5 | 9.5 | 32.1 | 261.9 | OK |
| 257.4 | 34.5 | 11.3 | 34.6 | 334.7 | 44.9 | 14.7 | 45.0 | 1.3 | 13.8 | OK | 53.8 | 17.3 | 61.5 | 261.9 | OK |
| 115.2 | 15.5 | 17.3 | 53.8 | 149.8 | 20.1 | 22.5 | 69.9 | 0.6 | 13.8 | OK | 73.5 | 26.9 | 87.0 | 261.9 | OK |
| 139.6 | 18.7 | -6.5 | 2.3 | 181.5 | 24.3 | -8.4 | 2.9 | 0.7 | 13.8 | OK | 30.6 | 1.1 | 30.6 | 261.9 | OK |
| 21.4 | 2.9 | -0.1 | -4.7 | 27.8 | 3.7 | -0.1 | -6.1 | 0.1 | 13.8 | OK | 1.1 | -2.3 | 4.2 | 261.9 | OK |
| 184.0 | 24.7 | -1.7 | 10.6 | 239.2 | 32.1 | -2.1 | 13.8 | 1.0 | 13.8 | OK | 12.4 | 5.3 | 15.5 | 261.9 | OK |
| 120.6 | 16.2 | -3.5 | 5.9 | 156.8 | 21.0 | -4.5 | 7.6 | 0.6 | 13.8 | OK | 17.8 | 2.9 | 18.5 | 261.9 | OK |
| 93.9 | 12.6 | -5.5 | -1.7 | 122.1 | 16.4 | -7.2 | -2.2 | 0.5 | 13.8 | OK | 25.3 | -0.9 | 25.4 | 261.9 | OK |
| 100.8 | 13.5 | -2.8 | 6.3 | 131.0 | 17.6 | -3.7 | 8.1 | 0.5 | 13.8 | OK | 14.6 | 3.1 | 15.5 | 261.9 | OK |
| 0.0 | -12.9 | 3.1 | -3.8 | 0.0 | -16.7 | 4.0 | -5.0 | 0.0 | 13.8 | OK | 15.4 | -1.9 | 15.8 | 261.9 | OK |
| 9.8 | 1.3 | 0.8 | -1.5 | 12.8 | 1.7 | 1.0 | -2.0 | 0.1 | 13.8 | OK | 3.5 | -0.8 | 3.7 | 261.9 | OK |
| 108.5 | 14.6 | -1.1 | 14.2 | 141.0 | 18.9 | -1.4 | 18.4 | 0.6 | 13.8 | OK | 7.6 | 7.1 | 14.5 | 261.9 | OK |
| 138.5 | 18.6 | 14.2 | 25.6 | 180.0 | 24.1 | 18.5 | 33.2 | 0.7 | 13.8 | OK | 61.7 | 12.8 | 65.5 | 261.9 | OK |
| 130.1 | 17.4 | -1.5 | 12.9 | 169.1 | 22.7 | -1.9 | 16.7 | 0.7 | 13.8 | OK | 10.0 | 6.4 | 15.0 | 261.9 | OK |
| 98.2 | 13.2 | -4.4 | 4.6 | 127.6 | 17.1 | -5.7 | 5.9 | 0.5 | 13.8 | OK | 20.8 | 2.3 | 21.2 | 261.9 | OK |
| 63.9 | 8.6 | -3.2 | 2.0 | 83.1 | 11.1 | -4.2 | 2.6 | 0.3 | 13.8 | OK | 14.9 | 1.0 | 15.0 | 261.9 | OK |
| 164.5 | 22.1 | -3.7 | 14.2 | 213.9 | 28.7 | -4.8 | 18.4 | 0.9 | 13.8 | OK | 20.1 | 7.1 | 23.5 | 261.9 | OK |
| 63.6 | 8.5 | -4.6 | -7.1 | 82.7 | 11.1 | -6.0 | -9.2 | 0.3 | 13.8 | OK | 20.6 | -3.5 | 21.5 | 261.9 | OK |
| 66.8 | 9.0 | -3.7 | -5.6 | 86.8 | 11.6 | -4.8 | -7.3 | 0.3 | 13.8 | OK | 16.9 | -2.8 | 17.6 | 261.9 | OK |
| 69.0 | 9.3 | -4.9 | -3.3 | 89.7 | 12.0 | -6.3 | -4.3 | 0.4 | 13.8 | OK | 21.7 | -1.7 | 21.9 | 261.9 | OK |
| 113.2 | 15.2 | -6.4 | 7.1 | 147.2 | 19.7 | -8.4 | 9.2 | 0.6 | 13.8 | OK | 29.5 | 3.5 | 30.1 | 261.9 | OK |
| 14.9 | 2.0 | -1.1 | -1.9 | 19.4 | 2.6 | -1.4 | -2.5 | 0.1 | 13.8 | OK | 4.9 | -1.0 | 5.2 | 261.9 | OK |
| 135.8 | 18.2 | -7.4 | -1.2 | 176.5 | 23.7 | -9.7 | -1.6 | 0.7 | 13.8 | OK | 34.2 | -0.6 | 34.3 | 261.9 | OK |
| 44.9 | 6.0 | -3.4 | -0.9 | 58.3 | 7.8 | -4.4 | -1.1 | 0.2 | 13.8 | OK | 15.1 | -0.4 | 15.1 | 261.9 | OK |
| 56.7 | 7.6 | -4.7 | 1.5 | 73.7 | 9.9 | -6.2 | 2.0 | 0.3 | 13.8 | OK | 20.9 | 0.8 | 20.9 | 261.9 | OK |
| 553.0 | 74.2 | 9.4 | 35.7 | 718.9 | 96.4 | 12.2 | 46.4 | 2.9 | 13.8 | OK | 55.1 | 17.9 | 63.2 | 261.9 | OK |
| 32.5 | 4.4 | -2.4 | -4.2 | 42.2 | 5.7 | -3.1 | -5.5 | 0.2 | 13.8 | OK | 10.6 | -2.1 | 11.2 | 261.9 | OK |
| 475.4 | 63.8 | 7.7 | 41.9 | 618.0 | 82.9 | 10.0 | 54.5 | 2.5 | 13.8 | OK | 45.8 | 21.0 | 58.4 | 261.9 | OK |
| 183.5 | 24.6 | 1.9 | 23.8 | 238.5 | 32.0 | 2.5 | 30.9 | 1.0 | 13.8 | OK | 13.5 | 11.9 | 24.6 | 261.9 | OK |
| 855.9 | 114.8 | 15.8 | 71.9 | 1112.7 | 149.2 | 20.6 | 93.4 | 4.5 | 13.8 | OK | 90.6 | 35.9 | 109.9 | 261.9 | OK |
| 161.7 | 21.7 | 13.2 | 58.2 | 210.3 | 28.2 | 17.1 | 75.6 | 0.8 | 13.8 | OK | 58.3 | 29.1 | 77.0 | 261.9 | OK |
| 138.1 | 18.5 | -1.8 | 13.2 | 179.5 | 24.1 | -2.4 | 17.2 | 0.7 | 13.8 | OK | 11.7 | 6.6 | 16.4 | 261.9 | OK |
| 134.8 | 18.1 | -9.9 | -12.6 | 175.2 | 23.5 | -12.9 | -16.3 | 0.7 | 13.8 | OK | 44.2 | -6.3 | 45.5 | 261.9 | OK |
| 324.6 | 43.5 | 14.3 | 41.1 | 422.0 | 56.6 | 18.5 | 53.5 | 1.7 | 13.8 | OK | 67.7 | 20.6 | 76.5 | 261.9 | OK |
| 142.8 | 19.2 | 15.6 | 13.3 | 185.6 | 24.9 | 20.2 | 17.2 | 0.7 | 13.8 | OK | 67.3 | 6.6 | 68.3 | 261.9 | OK |
| 86.9 | 11.7 | -7.2 | 2.0 | 113.0 | 15.2 | -9.3 | 2.6 | 0.5 | 13.8 | OK | 31.6 | 1.0 | 31.6 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|--------|-------|------|--------|--------|-------|-------|--------|-----|------|----|------|-------|-------|-------|----|
| 134.7 | 18.1 | -6.9 | 8.6 | 175.1 | 23.5 | -9.0 | 11.2 | 0.7 | 13.8 | OK | 32.1 | 4.3 | 33.0 | 261.9 | OK |
| 27.3 | 3.7 | 0.0 | -6.8 | 35.5 | 4.8 | 0.0 | -8.9 | 0.1 | 13.8 | OK | 0.9 | -3.4 | 6.0 | 261.9 | OK |
| 179.8 | 24.1 | -6.9 | 10.2 | 233.7 | 31.3 | -9.0 | 13.3 | 0.9 | 13.8 | OK | 33.6 | 5.1 | 34.8 | 261.9 | OK |
| 896.7 | 120.3 | 12.4 | -31.8 | 1165.7 | 156.4 | 16.1 | -41.3 | 4.7 | 13.8 | OK | 78.1 | -15.9 | 82.8 | 261.9 | OK |
| 129.3 | 17.3 | 1.9 | 14.0 | 168.1 | 22.5 | 2.5 | 18.2 | 0.7 | 13.8 | OK | 11.8 | 7.0 | 16.9 | 261.9 | OK |
| 398.7 | 53.5 | 13.6 | 45.3 | 518.3 | 69.5 | 17.7 | 58.9 | 2.1 | 13.8 | OK | 67.4 | 22.6 | 78.0 | 261.9 | OK |
| 161.1 | 21.6 | -4.8 | 14.9 | 209.4 | 28.1 | -6.2 | 19.3 | 0.8 | 13.8 | OK | 24.3 | 7.4 | 27.5 | 261.9 | OK |
| 145.9 | 19.6 | 18.3 | 44.5 | 189.7 | 25.4 | 23.8 | 57.9 | 0.8 | 13.8 | OK | 78.4 | 22.3 | 87.4 | 261.9 | OK |
| 154.2 | 20.7 | 17.0 | 15.2 | 200.5 | 26.9 | 22.2 | 19.8 | 0.8 | 13.8 | OK | 73.6 | 7.6 | 74.8 | 261.9 | OK |
| 186.2 | 25.0 | 9.3 | 12.4 | 242.1 | 32.5 | 12.1 | 16.1 | 1.0 | 13.8 | OK | 43.4 | 6.2 | 44.7 | 261.9 | OK |
| 126.5 | 17.0 | 5.4 | 15.6 | 164.5 | 22.1 | 7.1 | 20.3 | 0.7 | 13.8 | OK | 25.9 | 7.8 | 29.2 | 261.9 | OK |
| 427.9 | 57.4 | 14.0 | -56.6 | 556.3 | 74.6 | 18.2 | -73.6 | 2.2 | 13.8 | OK | 70.0 | -28.3 | 85.4 | 261.9 | OK |
| 676.8 | 90.8 | 11.9 | -62.4 | 879.8 | 118.0 | 15.4 | -81.1 | 3.5 | 13.8 | OK | 69.1 | -31.2 | 87.8 | 261.9 | OK |
| 39.2 | 5.3 | -3.8 | 0.9 | 51.0 | 6.8 | -5.0 | 1.2 | 0.2 | 13.8 | OK | 16.7 | 0.5 | 16.7 | 261.9 | OK |
| 49.5 | 6.6 | -5.7 | 0.1 | 64.4 | 8.6 | -7.4 | 0.1 | 0.3 | 13.8 | OK | 24.6 | 0.0 | 24.6 | 261.9 | OK |
| 137.1 | 18.4 | 2.4 | -29.4 | 178.3 | 23.9 | 3.1 | -38.2 | 0.7 | 13.8 | OK | 14.0 | -14.7 | 29.0 | 261.9 | OK |
| 1101.4 | 147.7 | 11.4 | -100.8 | 1431.9 | 192.0 | 14.8 | -131.0 | 5.7 | 13.8 | OK | 80.3 | -50.4 | 118.6 | 261.9 | OK |
| 100.3 | 13.4 | -8.3 | -4.5 | 130.3 | 17.5 | -10.9 | -5.8 | 0.5 | 13.8 | OK | 36.8 | -2.2 | 37.0 | 261.9 | OK |
| 0.0 | -22.2 | 6.6 | 3.1 | 0.0 | -28.9 | 8.6 | 4.0 | 0.0 | 13.8 | OK | 32.0 | 1.5 | 32.1 | 261.9 | OK |
| 7.2 | 1.0 | 5.2 | 1.6 | 9.3 | 1.2 | 6.7 | 2.1 | 0.0 | 13.8 | OK | 21.1 | 0.8 | 21.1 | 261.9 | OK |
| 101.4 | 13.6 | -6.7 | -10.2 | 131.8 | 17.7 | -8.7 | -13.2 | 0.5 | 13.8 | OK | 30.2 | -5.1 | 31.5 | 261.9 | OK |
| 162.3 | 21.8 | 2.3 | 0.6 | 211.0 | 28.3 | 3.0 | 0.8 | 0.8 | 13.8 | OK | 14.5 | 0.3 | 14.6 | 261.9 | OK |
| 86.0 | 11.5 | -5.6 | 7.8 | 111.9 | 15.0 | -7.3 | 10.2 | 0.4 | 13.8 | OK | 25.3 | 3.9 | 26.2 | 261.9 | OK |
| 504.7 | 67.7 | 2.8 | -29.2 | 656.1 | 88.0 | 3.7 | -37.9 | 2.6 | 13.8 | OK | 27.2 | -14.6 | 37.2 | 261.9 | OK |
| 194.3 | 26.1 | -5.1 | -6.8 | 252.5 | 33.9 | -6.6 | -8.8 | 1.0 | 13.8 | OK | 26.6 | -3.4 | 27.3 | 261.9 | OK |
| 125.2 | 16.8 | 4.0 | -11.5 | 162.7 | 21.8 | 5.2 | -14.9 | 0.7 | 13.8 | OK | 20.2 | -5.7 | 22.5 | 261.9 | OK |
| 78.1 | 10.5 | 4.4 | -11.0 | 101.5 | 13.6 | 5.7 | -14.2 | 0.4 | 13.8 | OK | 20.3 | -5.5 | 22.4 | 261.9 | OK |
| 1438.6 | 193.0 | 0.8 | -24.2 | 1870.2 | 250.8 | 1.0 | -31.4 | 7.5 | 13.8 | OK | 48.2 | -12.1 | 52.5 | 261.9 | OK |
| 70.5 | 9.5 | -7.9 | -0.2 | 91.6 | 12.3 | -10.3 | -0.2 | 0.4 | 13.8 | OK | 34.1 | -0.1 | 34.1 | 261.9 | OK |
| 832.4 | 111.6 | 14.3 | -100.9 | 1082.1 | 145.1 | 18.6 | -131.2 | 4.3 | 13.8 | OK | 83.8 | -50.5 | 121.1 | 261.9 | OK |
| 198.9 | 26.7 | -9.8 | -2.4 | 258.5 | 34.7 | -12.8 | -3.1 | 1.0 | 13.8 | OK | 45.9 | -1.2 | 46.0 | 261.9 | OK |
| 304.2 | 40.8 | -8.8 | 0.2 | 395.4 | 53.0 | -11.5 | 0.2 | 1.6 | 13.8 | OK | 45.1 | 0.1 | 45.1 | 261.9 | OK |
| 149.6 | 20.1 | -2.9 | -3.0 | 194.4 | 26.1 | -3.8 | -3.9 | 0.8 | 13.8 | OK | 16.4 | -1.5 | 16.6 | 261.9 | OK |
| 130.2 | 17.5 | 2.3 | -21.8 | 169.2 | 22.7 | 3.0 | -28.3 | 0.7 | 13.8 | OK | 13.5 | -10.9 | 23.2 | 261.9 | OK |
| 114.9 | 15.4 | -9.6 | -0.8 | 149.4 | 20.0 | -12.5 | -1.0 | 0.6 | 13.8 | OK | 42.4 | -0.4 | 42.4 | 261.9 | OK |
| 121.9 | 16.3 | 1.4 | -11.9 | 158.4 | 21.2 | 1.8 | -15.5 | 0.6 | 13.8 | OK | 9.4 | -6.0 | 14.0 | 261.9 | OK |
| 141.2 | 18.9 | -8.1 | -1.4 | 183.5 | 24.6 | -10.5 | -1.9 | 0.7 | 13.8 | OK | 37.0 | -0.7 | 37.0 | 261.9 | OK |
| 151.8 | 20.4 | -9.3 | -4.4 | 197.4 | 26.5 | -12.1 | -5.8 | 0.8 | 13.8 | OK | 42.4 | -2.2 | 42.5 | 261.9 | OK |
| 73.4 | 9.8 | -4.0 | 2.7 | 95.4 | 12.8 | -5.2 | 3.5 | 0.4 | 13.8 | OK | 18.4 | 1.4 | 18.6 | 261.9 | OK |
| 218.8 | 29.3 | -1.1 | -8.1 | 284.4 | 38.1 | -1.4 | -10.6 | 1.1 | 13.8 | OK | 11.2 | -4.1 | 13.2 | 261.9 | OK |
| 183.0 | 24.5 | 0.9 | -2.3 | 237.8 | 31.9 | 1.2 | -3.0 | 1.0 | 13.8 | OK | 9.5 | -1.2 | 9.7 | 261.9 | OK |
| 118.7 | 15.9 | -6.4 | 4.6 | 154.4 | 20.7 | -8.3 | 6.0 | 0.6 | 13.8 | OK | 29.6 | 2.3 | 29.9 | 261.9 | OK |
| 245.8 | 33.0 | -5.9 | -6.0 | 319.5 | 42.9 | -7.7 | -7.7 | 1.3 | 13.8 | OK | 31.6 | -3.0 | 32.1 | 261.9 | OK |
| 0.0 | -7.6 | 4.4 | 5.5 | 0.0 | -9.9 | 5.7 | 7.2 | 0.0 | 13.8 | OK | 19.6 | 2.8 | 20.1 | 261.9 | OK |
| 61.8 | 8.3 | -2.0 | 8.0 | 80.3 | 10.8 | -2.6 | 10.5 | 0.3 | 13.8 | OK | 9.9 | 4.0 | 12.1 | 261.9 | OK |
| 7.8 | 1.0 | 8.3 | -34.5 | 10.1 | 1.4 | 10.8 | -44.8 | 0.0 | 13.8 | OK | 33.9 | -17.2 | 45.2 | 261.9 | OK |
| 189.8 | 25.5 | 16.0 | -60.5 | 246.8 | 33.1 | 20.9 | -78.6 | 1.0 | 13.8 | OK | 70.7 | -30.2 | 88.0 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|------|-------|-------|-------|-------|--------|-----|------|----|------|-------|-------|-------|----|
| 242.0 | 32.5 | 7.9 | -13.9 | 314.5 | 42.2 | 10.3 | -18.1 | 1.3 | 13.8 | OK | 39.6 | -7.0 | 41.4 | 261.9 | OK |
| 10.9 | 1.5 | -0.6 | 1.1 | 14.2 | 1.9 | -0.8 | 1.5 | 0.1 | 13.8 | OK | 2.8 | 0.6 | 3.0 | 261.9 | OK |
| 126.9 | 17.0 | -7.3 | 2.6 | 165.0 | 22.1 | -9.4 | 3.4 | 0.7 | 13.8 | OK | 33.2 | 1.3 | 33.3 | 261.9 | OK |
| 176.0 | 23.6 | -6.6 | -5.2 | 228.8 | 30.7 | -8.6 | -6.7 | 0.9 | 13.8 | OK | 32.1 | -2.6 | 32.4 | 261.9 | OK |
| 166.9 | 22.4 | -6.6 | -10.7 | 216.9 | 29.1 | -8.5 | -13.9 | 0.9 | 13.8 | OK | 31.8 | -5.3 | 33.1 | 261.9 | OK |
| 103.0 | 13.8 | -6.9 | 6.8 | 133.9 | 18.0 | -8.9 | 8.8 | 0.5 | 13.8 | OK | 30.9 | 3.4 | 31.4 | 261.9 | OK |
| 40.3 | 5.4 | -1.2 | 5.1 | 52.4 | 7.0 | -1.6 | 6.6 | 0.2 | 13.8 | OK | 6.3 | 2.6 | 7.7 | 261.9 | OK |
| 0.0 | -21.6 | 3.7 | 2.5 | 0.0 | -28.1 | 4.8 | 3.2 | 0.0 | 13.8 | OK | 19.9 | 1.2 | 20.0 | 261.9 | OK |
| 50.9 | 6.8 | 8.6 | -25.7 | 66.1 | 8.9 | 11.1 | -33.4 | 0.3 | 13.8 | OK | 36.1 | -12.9 | 42.5 | 261.9 | OK |
| 2.5 | 0.3 | 2.0 | 1.0 | 3.3 | 0.4 | 2.6 | 1.3 | 0.0 | 13.8 | OK | 8.1 | 0.5 | 8.2 | 261.9 | OK |
| 55.0 | 7.4 | -4.2 | -8.2 | 71.5 | 9.6 | -5.5 | -10.7 | 0.3 | 13.8 | OK | 18.7 | -4.1 | 20.0 | 261.9 | OK |
| 25.9 | 3.5 | 2.9 | 6.6 | 33.7 | 4.5 | 3.7 | 8.6 | 0.1 | 13.8 | OK | 12.4 | 3.3 | 13.7 | 261.9 | OK |
| 10.0 | 1.3 | -0.1 | 4.8 | 13.0 | 1.8 | -0.2 | 6.2 | 0.1 | 13.8 | OK | 0.8 | 2.4 | 4.2 | 261.9 | OK |
| 42.4 | 5.7 | -2.4 | 6.4 | 55.1 | 7.4 | -3.1 | 8.4 | 0.2 | 13.8 | OK | 10.9 | 3.2 | 12.2 | 261.9 | OK |
| 214.0 | 28.7 | 12.1 | -61.8 | 278.2 | 37.3 | 15.8 | -80.3 | 1.1 | 13.8 | OK | 55.7 | -30.9 | 77.2 | 261.9 | OK |
| 68.2 | 9.2 | -4.3 | 6.0 | 88.7 | 11.9 | -5.5 | 7.8 | 0.4 | 13.8 | OK | 19.3 | 3.0 | 20.0 | 261.9 | OK |
| 32.8 | 4.4 | -2.5 | 0.1 | 42.6 | 5.7 | -3.3 | 0.2 | 0.2 | 13.8 | OK | 11.1 | 0.1 | 11.1 | 261.9 | OK |
| 192.4 | 25.8 | 9.2 | -26.0 | 250.2 | 33.6 | 11.9 | -33.8 | 1.0 | 13.8 | OK | 43.1 | -13.0 | 48.6 | 261.9 | OK |
| 6.3 | 0.8 | 2.8 | 4.0 | 8.2 | 1.1 | 3.7 | 5.2 | 0.0 | 13.8 | OK | 11.7 | 2.0 | 12.2 | 261.9 | OK |
| 117.5 | 15.8 | -4.9 | -4.9 | 152.7 | 20.5 | -6.3 | -6.4 | 0.6 | 13.8 | OK | 23.3 | -2.5 | 23.7 | 261.9 | OK |
| 220.5 | 29.6 | -8.3 | 8.8 | 286.6 | 38.4 | -10.8 | 11.5 | 1.1 | 13.8 | OK | 40.3 | 4.4 | 41.0 | 261.9 | OK |
| 453.3 | 60.8 | 16.5 | -86.0 | 589.3 | 79.0 | 21.5 | -111.8 | 2.4 | 13.8 | OK | 80.8 | -43.0 | 109.9 | 261.9 | OK |
| 72.8 | 9.8 | -4.2 | -0.1 | 94.7 | 12.7 | -5.4 | -0.1 | 0.4 | 13.8 | OK | 19.1 | 0.0 | 19.1 | 261.9 | OK |
| 131.0 | 17.6 | -6.0 | -9.0 | 170.3 | 22.8 | -7.8 | -11.7 | 0.7 | 13.8 | OK | 28.4 | -4.5 | 29.5 | 261.9 | OK |
| 88.7 | 11.9 | -4.4 | -7.4 | 115.3 | 15.5 | -5.7 | -9.6 | 0.5 | 13.8 | OK | 20.6 | -3.7 | 21.6 | 261.9 | OK |
| 326.7 | 43.8 | 17.2 | -71.9 | 424.7 | 57.0 | 22.4 | -93.5 | 1.7 | 13.8 | OK | 79.8 | -36.0 | 101.3 | 261.9 | OK |
| 97.0 | 13.0 | -3.4 | -4.4 | 126.1 | 16.9 | -4.4 | -5.7 | 0.5 | 13.8 | OK | 16.7 | -2.2 | 17.1 | 261.9 | OK |
| 19.3 | 2.6 | -1.0 | 14.4 | 25.2 | 3.4 | -1.4 | 18.7 | 0.1 | 13.8 | OK | 4.8 | 7.2 | 13.4 | 261.9 | OK |

Tabella 3: verifiche del sostegno di prima fase (M>0 fibre tese in intradosso) – Camera di esodo

| Sollecitazioni caratteristiche | | | | Sollecitazioni SLU | | | | Verifica calcestruzzo proiettato | | | Verifica centine | | | | |
|--------------------------------|------------------|------------------|------------------|---------------------|--------------------|--------------------|--------------------|----------------------------------|-----------------|----------|--------------------|--------------------|-----------------------|-----------------|----------|
| N _{clsp} | N _{cen} | M _{cen} | T _{cen} | N _{clsp,d} | N _{cen,d} | M _{cen,d} | T _{cen,d} | σ _{c,clsp,d} | f _{cd} | Verifica | σ _{cen,d} | τ _{cen,d} | σ _{id,cen,d} | f _{yd} | Verifica |
| [kN] | [kN] | [kNm] | [kN] | [kN] | [kN] | [kNm] | [kN] | [MPa] | [MPa] | - | [MPa] | [MPa] | [MPa] | [MPa] | - |
| 699.5 | 51.3 | 0.4 | 0.1 | 909.3 | 66.7 | 0.5 | 0.1 | 3.6 | 13.8 | OK | 25.6 | 0.1 | 25.6 | 261.9 | OK |
| 0.0 | -348.7 | -0.5 | 9.3 | 0.0 | -453.4 | -0.6 | 12.1 | 0.0 | 13.8 | OK | 153.0 | 8.6 | 153.7 | 261.9 | OK |
| 0.0 | -64.8 | 17.0 | 15.2 | 0.0 | -84.2 | 22.1 | 19.7 | 0.0 | 13.8 | OK | 189.9 | 14.1 | 191.4 | 261.9 | OK |
| 238.9 | 17.5 | -0.5 | 52.2 | 310.5 | 22.8 | -0.7 | 67.8 | 1.2 | 13.8 | OK | 12.5 | 48.3 | 84.6 | 261.9 | OK |
| 0.0 | -19.4 | 1.5 | 0.3 | 0.0 | -25.2 | 2.0 | 0.4 | 0.0 | 13.8 | OK | 22.8 | 0.3 | 22.8 | 261.9 | OK |
| 0.0 | -348.7 | -0.5 | 9.3 | 0.0 | -453.4 | -0.6 | 12.1 | 0.0 | 13.8 | OK | 153.0 | 8.6 | 153.7 | 261.9 | OK |
| 0.0 | -68.0 | 3.2 | -5.3 | 0.0 | -88.3 | 4.1 | -6.9 | 0.0 | 13.8 | OK | 59.3 | -4.9 | 59.9 | 261.9 | OK |
| 0.0 | -152.8 | 3.6 | -4.5 | 0.0 | -198.7 | 4.7 | -5.9 | 0.0 | 13.8 | OK | 99.4 | -4.2 | 99.7 | 261.9 | OK |
| 0.0 | -35.0 | -0.6 | 3.3 | 0.0 | -45.5 | -0.8 | 4.3 | 0.0 | 13.8 | OK | 20.8 | 3.1 | 21.5 | 261.9 | OK |
| 0.0 | -91.2 | 2.0 | 0.4 | 0.0 | -118.6 | 2.5 | 0.6 | 0.0 | 13.8 | OK | 57.5 | 0.4 | 57.5 | 261.9 | OK |
| 0.0 | -6.9 | -0.7 | 2.7 | 0.0 | -8.9 | -1.0 | 3.6 | 0.0 | 13.8 | OK | 9.9 | 2.5 | 10.9 | 261.9 | OK |
| 37.1 | 2.7 | -9.2 | 2.6 | 48.3 | 3.5 | -12.0 | 3.4 | 0.2 | 13.8 | OK | 89.1 | 2.4 | 89.2 | 261.9 | OK |
| 16.5 | 1.2 | -6.2 | 4.6 | 21.4 | 1.6 | -8.1 | 6.0 | 0.1 | 13.8 | OK | 59.7 | 4.3 | 60.2 | 261.9 | OK |
| 19.0 | 1.4 | -3.6 | 1.6 | 24.8 | 1.8 | -4.7 | 2.1 | 0.1 | 13.8 | OK | 34.8 | 1.5 | 34.9 | 261.9 | OK |
| 27.1 | 2.0 | -5.1 | 3.9 | 35.3 | 2.6 | -6.6 | 5.1 | 0.1 | 13.8 | OK | 49.5 | 3.6 | 49.9 | 261.9 | OK |
| 1.1 | 0.1 | -3.3 | 1.9 | 1.5 | 0.1 | -4.4 | 2.4 | 0.0 | 13.8 | OK | 31.9 | 1.7 | 32.1 | 261.9 | OK |
| 0.0 | -148.3 | 2.8 | -0.8 | 0.0 | -192.7 | 3.7 | -1.1 | 0.0 | 13.8 | OK | 90.1 | -0.8 | 90.2 | 261.9 | OK |
| 0.0 | -44.8 | -2.6 | 1.0 | 0.0 | -58.3 | -3.3 | 1.4 | 0.0 | 13.8 | OK | 43.6 | 1.0 | 43.6 | 261.9 | OK |
| 31.0 | 2.3 | -9.7 | -1.5 | 40.3 | 3.0 | -12.6 | -1.9 | 0.2 | 13.8 | OK | 93.1 | -1.4 | 93.1 | 261.9 | OK |
| 0.0 | -10.6 | 4.6 | -7.1 | 0.0 | -13.8 | 5.9 | -9.2 | 0.0 | 13.8 | OK | 48.1 | -6.6 | 49.4 | 261.9 | OK |
| 3.8 | 0.3 | 14.2 | -4.0 | 5.0 | 0.4 | 18.5 | -5.2 | 0.0 | 13.8 | OK | 135.3 | -3.7 | 135.5 | 261.9 | OK |
| 0.0 | -29.4 | 9.7 | -2.7 | 0.0 | -38.3 | 12.6 | -3.5 | 0.0 | 13.8 | OK | 105.0 | -2.5 | 105.1 | 261.9 | OK |
| 2.8 | 0.2 | -2.6 | -7.4 | 3.6 | 0.3 | -3.4 | -9.6 | 0.0 | 13.8 | OK | 24.9 | -6.9 | 27.6 | 261.9 | OK |
| 22.1 | 1.6 | -7.5 | -1.1 | 28.8 | 2.1 | -9.8 | -1.4 | 0.1 | 13.8 | OK | 72.3 | -1.0 | 72.3 | 261.9 | OK |
| 27.9 | 2.0 | -3.5 | -10.5 | 36.3 | 2.7 | -4.5 | -13.7 | 0.1 | 13.8 | OK | 33.8 | -9.8 | 37.8 | 261.9 | OK |
| 6.9 | 0.5 | 6.8 | -10.2 | 8.9 | 0.7 | 8.8 | -13.2 | 0.0 | 13.8 | OK | 64.9 | -9.4 | 66.9 | 261.9 | OK |
| 9.9 | 0.7 | 6.3 | 10.3 | 12.9 | 0.9 | 8.1 | 13.4 | 0.1 | 13.8 | OK | 59.9 | 9.6 | 62.1 | 261.9 | OK |
| 4.3 | 0.3 | -3.3 | 6.4 | 5.6 | 0.4 | -4.3 | 8.3 | 0.0 | 13.8 | OK | 31.4 | 5.9 | 33.0 | 261.9 | OK |
| 17.4 | 1.3 | -7.1 | 0.2 | 22.6 | 1.7 | -9.2 | 0.3 | 0.1 | 13.8 | OK | 67.8 | 0.2 | 67.8 | 261.9 | OK |
| 37.3 | 2.7 | -9.9 | 1.3 | 48.4 | 3.6 | -12.9 | 1.6 | 0.2 | 13.8 | OK | 95.9 | 1.2 | 95.9 | 261.9 | OK |
| 3.3 | 0.2 | 14.0 | 4.3 | 4.3 | 0.3 | 18.1 | 5.6 | 0.0 | 13.8 | OK | 133.0 | 4.0 | 133.2 | 261.9 | OK |
| 0.0 | -28.9 | 9.1 | 3.6 | 0.0 | -37.6 | 11.8 | 4.6 | 0.0 | 13.8 | OK | 98.6 | 3.3 | 98.7 | 261.9 | OK |
| 28.7 | 2.1 | -4.0 | 10.3 | 37.3 | 2.7 | -5.2 | 13.4 | 0.1 | 13.8 | OK | 38.7 | 9.5 | 42.1 | 261.9 | OK |
| 0.0 | -11.0 | 3.3 | 7.4 | 0.0 | -14.3 | 4.3 | 9.6 | 0.0 | 13.8 | OK | 36.1 | 6.9 | 38.0 | 261.9 | OK |
| 0.0 | -68.5 | -1.8 | 0.2 | 0.0 | -89.0 | -2.4 | 0.2 | 0.0 | 13.8 | OK | 46.5 | 0.2 | 46.5 | 261.9 | OK |
| 32.3 | 2.4 | -6.4 | -2.1 | 42.0 | 3.1 | -8.3 | -2.7 | 0.2 | 13.8 | OK | 61.6 | -1.9 | 61.7 | 261.9 | OK |
| 0.0 | -13.4 | -3.4 | -2.2 | 0.0 | -17.5 | -4.4 | -2.9 | 0.0 | 13.8 | OK | 38.0 | -2.1 | 38.1 | 261.9 | OK |
| 0.0 | -134.4 | 4.5 | 11.1 | 0.0 | -174.8 | 5.9 | 14.5 | 0.0 | 13.8 | OK | 100.6 | 10.3 | 102.1 | 261.9 | OK |
| 20.2 | 1.5 | 0.4 | 1.2 | 26.3 | 1.9 | 0.5 | 1.5 | 0.1 | 13.8 | OK | 4.0 | 1.1 | 4.4 | 261.9 | OK |
| 38.7 | 2.8 | -0.7 | -7.3 | 50.3 | 3.7 | -0.9 | -9.5 | 0.2 | 13.8 | OK | 8.1 | -6.8 | 14.3 | 261.9 | OK |
| 31.7 | 2.3 | -8.6 | -5.4 | 41.2 | 3.0 | -11.1 | -7.0 | 0.2 | 13.8 | OK | 82.5 | -5.0 | 83.0 | 261.9 | OK |
| 14.2 | 1.0 | -3.4 | -3.2 | 18.5 | 1.4 | -4.4 | -4.1 | 0.1 | 13.8 | OK | 32.4 | -2.9 | 32.8 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|-------|-------|-------|--------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 12.3 | 0.9 | -5.7 | -3.5 | 15.9 | 1.2 | -7.5 | -4.5 | 0.1 | 13.8 | OK | 55.1 | -3.2 | 55.4 | 261.9 | OK |
| 0.0 | -13.6 | -0.7 | -2.3 | 0.0 | -17.7 | -0.9 | -3.0 | 0.0 | 13.8 | OK | 12.6 | -2.1 | 13.1 | 261.9 | OK |
| 0.0 | -100.1 | 1.9 | -2.9 | 0.0 | -130.1 | 2.5 | -3.8 | 0.0 | 13.8 | OK | 61.1 | -2.7 | 61.3 | 261.9 | OK |
| 0.0 | -26.1 | -1.9 | -0.6 | 0.0 | -33.9 | -2.4 | -0.8 | 0.0 | 13.8 | OK | 28.8 | -0.6 | 28.8 | 261.9 | OK |
| 0.0 | -214.2 | 5.8 | -0.3 | 0.0 | -278.5 | 7.5 | -0.4 | 0.0 | 13.8 | OK | 146.5 | -0.3 | 146.5 | 261.9 | OK |
| 16.4 | 1.2 | -2.2 | -0.8 | 21.3 | 1.6 | -2.9 | -1.1 | 0.1 | 13.8 | OK | 21.5 | -0.8 | 21.6 | 261.9 | OK |
| 106.4 | 7.8 | -2.4 | 5.1 | 138.3 | 10.1 | -3.1 | 6.6 | 0.6 | 13.8 | OK | 26.2 | 4.7 | 27.4 | 261.9 | OK |
| 73.4 | 5.4 | 7.5 | 4.0 | 95.5 | 7.0 | 9.7 | 5.2 | 0.4 | 13.8 | OK | 73.5 | 3.7 | 73.8 | 261.9 | OK |
| 116.9 | 8.6 | 3.6 | -0.3 | 152.0 | 11.1 | 4.7 | -0.4 | 0.6 | 13.8 | OK | 38.3 | -0.3 | 38.3 | 261.9 | OK |
| 106.3 | 7.8 | -3.0 | 5.3 | 138.2 | 10.1 | -3.9 | 6.8 | 0.6 | 13.8 | OK | 31.8 | 4.9 | 32.9 | 261.9 | OK |
| 84.0 | 6.2 | -8.9 | 8.6 | 109.2 | 8.0 | -11.5 | 11.2 | 0.4 | 13.8 | OK | 87.1 | 8.0 | 88.2 | 261.9 | OK |
| 126.8 | 9.3 | -2.2 | 8.9 | 164.8 | 12.1 | -2.8 | 11.5 | 0.7 | 13.8 | OK | 24.8 | 8.2 | 28.6 | 261.9 | OK |
| 88.3 | 6.5 | -3.1 | 6.0 | 114.7 | 8.4 | -4.0 | 7.8 | 0.5 | 13.8 | OK | 32.3 | 5.5 | 33.7 | 261.9 | OK |
| 81.9 | 6.0 | 0.6 | 2.6 | 106.5 | 7.8 | 0.8 | 3.4 | 0.4 | 13.8 | OK | 8.4 | 2.4 | 9.4 | 261.9 | OK |
| 0.0 | -324.4 | 4.9 | -15.5 | 0.0 | -421.8 | 6.4 | -20.2 | 0.0 | 13.8 | OK | 184.9 | -14.4 | 186.6 | 261.9 | OK |
| 90.6 | 6.6 | 4.0 | 5.8 | 117.8 | 8.6 | 5.2 | 7.5 | 0.5 | 13.8 | OK | 41.2 | 5.3 | 42.3 | 261.9 | OK |
| 0.0 | -64.8 | 17.0 | 15.2 | 0.0 | -84.2 | 22.1 | 19.7 | 0.0 | 13.8 | OK | 189.9 | 14.1 | 191.4 | 261.9 | OK |
| 302.1 | 22.1 | -2.0 | 10.0 | 392.8 | 28.8 | -2.7 | 13.0 | 1.6 | 13.8 | OK | 28.9 | 9.3 | 33.1 | 261.9 | OK |
| 6.1 | 0.4 | -4.1 | 1.1 | 7.9 | 0.6 | -5.4 | 1.4 | 0.0 | 13.8 | OK | 39.6 | 1.0 | 39.6 | 261.9 | OK |
| 139.2 | 10.2 | 0.1 | 2.4 | 181.0 | 13.3 | 0.2 | 3.1 | 0.7 | 13.8 | OK | 5.5 | 2.2 | 6.8 | 261.9 | OK |
| 23.8 | 1.7 | -3.8 | -12.1 | 31.0 | 2.3 | -4.9 | -15.7 | 0.1 | 13.8 | OK | 36.8 | -11.2 | 41.6 | 261.9 | OK |
| 73.5 | 5.4 | -8.1 | -2.6 | 95.5 | 7.0 | -10.5 | -3.3 | 0.4 | 13.8 | OK | 79.3 | -2.4 | 79.4 | 261.9 | OK |
| 0.0 | -20.3 | 3.4 | -4.6 | 0.0 | -26.4 | 4.5 | -6.0 | 0.0 | 13.8 | OK | 41.4 | -4.3 | 42.0 | 261.9 | OK |
| 0.0 | -26.4 | 6.2 | -3.4 | 0.0 | -34.3 | 8.0 | -4.4 | 0.0 | 13.8 | OK | 70.1 | -3.1 | 70.3 | 261.9 | OK |
| 2.2 | 0.2 | 11.9 | -3.6 | 2.9 | 0.2 | 15.5 | -4.7 | 0.0 | 13.8 | OK | 113.5 | -3.4 | 113.6 | 261.9 | OK |
| 47.0 | 3.4 | -10.5 | -2.9 | 61.1 | 4.5 | -13.6 | -3.8 | 0.2 | 13.8 | OK | 101.1 | -2.7 | 101.3 | 261.9 | OK |
| 1.6 | 0.1 | 6.0 | -9.0 | 2.1 | 0.2 | 7.8 | -11.7 | 0.0 | 13.8 | OK | 57.1 | -8.4 | 58.9 | 261.9 | OK |
| 4.8 | 0.3 | -2.1 | -5.7 | 6.2 | 0.5 | -2.7 | -7.4 | 0.0 | 13.8 | OK | 20.2 | -5.3 | 22.2 | 261.9 | OK |
| 41.9 | 3.1 | -9.3 | 0.8 | 54.5 | 4.0 | -12.1 | 1.0 | 0.2 | 13.8 | OK | 90.0 | 0.7 | 90.0 | 261.9 | OK |
| 14.0 | 1.0 | -3.3 | 3.1 | 18.2 | 1.3 | -4.2 | 4.0 | 0.1 | 13.8 | OK | 31.5 | 2.8 | 31.9 | 261.9 | OK |
| 0.0 | -28.8 | 5.2 | 5.6 | 0.0 | -37.4 | 6.8 | 7.3 | 0.0 | 13.8 | OK | 62.0 | 5.2 | 62.7 | 261.9 | OK |
| 4.8 | 0.4 | 11.1 | 5.2 | 6.3 | 0.5 | 14.4 | 6.7 | 0.0 | 13.8 | OK | 105.5 | 4.8 | 105.8 | 261.9 | OK |
| 0.0 | -17.6 | 1.2 | 4.4 | 0.0 | -22.9 | 1.6 | 5.8 | 0.0 | 13.8 | OK | 19.0 | 4.1 | 20.3 | 261.9 | OK |
| 10.1 | 0.7 | 4.3 | 8.9 | 13.2 | 1.0 | 5.6 | 11.6 | 0.1 | 13.8 | OK | 41.2 | 8.2 | 43.6 | 261.9 | OK |
| 47.4 | 3.5 | -5.4 | -0.2 | 61.6 | 4.5 | -7.0 | -0.2 | 0.2 | 13.8 | OK | 52.9 | -0.2 | 52.9 | 261.9 | OK |
| 27.8 | 2.0 | -4.3 | 9.6 | 36.2 | 2.7 | -5.5 | 12.5 | 0.1 | 13.8 | OK | 41.5 | 8.9 | 44.2 | 261.9 | OK |
| 0.0 | -315.6 | 13.1 | -2.4 | 0.0 | -410.3 | 17.0 | -3.1 | 0.0 | 13.8 | OK | 259.1 | -2.2 | 259.2 | 261.9 | OK |
| 67.9 | 5.0 | -3.0 | -3.7 | 88.2 | 6.5 | -3.9 | -4.7 | 0.4 | 13.8 | OK | 30.4 | -3.4 | 31.0 | 261.9 | OK |
| 53.1 | 3.9 | -0.1 | -5.9 | 69.0 | 5.1 | -0.1 | -7.7 | 0.3 | 13.8 | OK | 2.3 | -5.5 | 9.8 | 261.9 | OK |
| 0.0 | -49.9 | -4.5 | -8.5 | 0.0 | -64.9 | -5.8 | -11.0 | 0.0 | 13.8 | OK | 64.0 | -7.9 | 65.5 | 261.9 | OK |
| 25.6 | 1.9 | -0.8 | -2.8 | 33.2 | 2.4 | -1.1 | -3.7 | 0.1 | 13.8 | OK | 8.6 | -2.6 | 9.7 | 261.9 | OK |
| 0.0 | -6.8 | 0.6 | -2.3 | 0.0 | -8.8 | 0.8 | -3.0 | 0.0 | 13.8 | OK | 8.4 | -2.1 | 9.2 | 261.9 | OK |
| 0.0 | -44.3 | 6.3 | 3.0 | 0.0 | -57.6 | 8.2 | 3.9 | 0.0 | 13.8 | OK | 78.7 | 2.8 | 78.9 | 261.9 | OK |
| 0.0 | -34.6 | 1.1 | 0.3 | 0.0 | -45.0 | 1.4 | 0.4 | 0.0 | 13.8 | OK | 25.1 | 0.3 | 25.1 | 261.9 | OK |
| 57.6 | 4.2 | -6.9 | -5.8 | 74.9 | 5.5 | -8.9 | -7.6 | 0.3 | 13.8 | OK | 67.1 | -5.4 | 67.7 | 261.9 | OK |
| 32.2 | 2.4 | -1.3 | -4.5 | 41.8 | 3.1 | -1.7 | -5.9 | 0.2 | 13.8 | OK | 13.2 | -4.2 | 15.1 | 261.9 | OK |
| 0.0 | -184.6 | 15.7 | 10.4 | 0.0 | -240.0 | 20.5 | 13.5 | 0.0 | 13.8 | OK | 228.7 | 9.6 | 229.3 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|--------|------|------|------|--------|------|------|-----|------|----|-------|------|-------|-------|----|
| 0.0 | -166.3 | 4.7 | 2.7 | 0.0 | -216.2 | 6.1 | 3.5 | 0.0 | 13.8 | OK | 115.7 | 2.5 | 115.8 | 261.9 | OK |
| 59.8 | 4.4 | -3.8 | -4.6 | 77.8 | 5.7 | -4.9 | -6.0 | 0.3 | 13.8 | OK | 37.8 | -4.3 | 38.6 | 261.9 | OK |
| 32.0 | 2.3 | -1.0 | -2.4 | 41.7 | 3.1 | -1.3 | -3.2 | 0.2 | 13.8 | OK | 10.6 | -2.3 | 11.3 | 261.9 | OK |
| 0.0 | -3.1 | 0.0 | 0.0 | 0.0 | -4.1 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 1.4 | 0.0 | 1.4 | 261.9 | OK |
| 0.0 | -3.3 | 0.0 | 0.0 | 0.0 | -4.3 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 1.5 | 0.0 | 1.5 | 261.9 | OK |
| 0.0 | -2.9 | 0.0 | 0.0 | 0.0 | -3.8 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 1.3 | 0.0 | 1.3 | 261.9 | OK |
| 0.0 | -2.9 | 0.0 | 0.0 | 0.0 | -3.8 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 1.4 | 0.0 | 1.4 | 261.9 | OK |
| 0.0 | -2.6 | 0.0 | 0.1 | 0.0 | -3.4 | 0.0 | 0.1 | 0.0 | 13.8 | OK | 1.1 | 0.1 | 1.1 | 261.9 | OK |
| 0.0 | -6.6 | 0.0 | 0.0 | 0.0 | -8.6 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 2.9 | 0.0 | 2.9 | 261.9 | OK |
| 0.0 | -3.0 | 0.0 | 0.0 | 0.0 | -3.8 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 1.3 | 0.0 | 1.3 | 261.9 | OK |
| 0.0 | -2.0 | 0.0 | 0.0 | 0.0 | -2.7 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.9 | 0.0 | 0.9 | 261.9 | OK |
| 0.0 | -7.0 | 0.0 | 0.0 | 0.0 | -9.1 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 3.0 | 0.0 | 3.0 | 261.9 | OK |
| 0.0 | -5.0 | 0.0 | -0.1 | 0.0 | -6.5 | 0.0 | -0.1 | 0.0 | 13.8 | OK | 2.2 | -0.1 | 2.2 | 261.9 | OK |
| 0.0 | -0.8 | 0.0 | -0.1 | 0.0 | -1.1 | 0.0 | -0.1 | 0.0 | 13.8 | OK | 0.4 | -0.1 | 0.4 | 261.9 | OK |
| 0.0 | -3.1 | 0.0 | 0.0 | 0.0 | -4.1 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 1.5 | 0.0 | 1.5 | 261.9 | OK |
| 0.0 | -2.9 | 0.0 | 0.0 | 0.0 | -3.7 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 1.3 | 0.0 | 1.3 | 261.9 | OK |
| 0.0 | -3.8 | 0.0 | 0.0 | 0.0 | -4.9 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 1.6 | 0.0 | 1.6 | 261.9 | OK |
| 10.3 | 0.8 | 0.0 | 0.1 | 13.3 | 1.0 | 0.0 | 0.2 | 0.1 | 13.8 | OK | 0.4 | 0.1 | 0.5 | 261.9 | OK |
| 0.7 | 0.1 | 0.0 | -0.1 | 0.9 | 0.1 | 0.0 | -0.1 | 0.0 | 13.8 | OK | 0.4 | -0.1 | 0.4 | 261.9 | OK |
| 1.8 | 0.1 | 0.0 | 0.3 | 2.4 | 0.2 | 0.0 | 0.4 | 0.0 | 13.8 | OK | 0.2 | 0.3 | 0.5 | 261.9 | OK |
| 0.0 | -1.0 | 0.0 | 0.1 | 0.0 | -1.3 | 0.0 | 0.2 | 0.0 | 13.8 | OK | 0.6 | 0.1 | 0.7 | 261.9 | OK |
| 0.0 | -0.2 | 0.0 | 0.0 | 0.0 | -0.3 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.2 | 0.0 | 0.2 | 261.9 | OK |
| 3.9 | 0.3 | 0.0 | -0.1 | 5.0 | 0.4 | -0.1 | -0.2 | 0.0 | 13.8 | OK | 0.5 | -0.1 | 0.5 | 261.9 | OK |
| 3.4 | 0.2 | 0.0 | -0.1 | 4.4 | 0.3 | 0.0 | -0.1 | 0.0 | 13.8 | OK | 0.3 | -0.1 | 0.4 | 261.9 | OK |
| 14.0 | 1.0 | -0.1 | -0.1 | 18.2 | 1.3 | -0.1 | -0.2 | 0.1 | 13.8 | OK | 0.9 | -0.1 | 0.9 | 261.9 | OK |
| 3.2 | 0.2 | 0.0 | 0.0 | 4.2 | 0.3 | 0.1 | 0.0 | 0.0 | 13.8 | OK | 0.5 | 0.0 | 0.5 | 261.9 | OK |
| 13.9 | 1.0 | 0.0 | -0.1 | 18.1 | 1.3 | 0.0 | -0.1 | 0.1 | 13.8 | OK | 0.6 | -0.1 | 0.7 | 261.9 | OK |
| 3.4 | 0.3 | 0.0 | 0.5 | 4.5 | 0.3 | -0.1 | 0.7 | 0.0 | 13.8 | OK | 0.5 | 0.5 | 1.0 | 261.9 | OK |
| 14.3 | 1.0 | 0.1 | 0.2 | 18.6 | 1.4 | 0.1 | 0.3 | 0.1 | 13.8 | OK | 1.0 | 0.2 | 1.1 | 261.9 | OK |
| 1.5 | 0.1 | 0.0 | 0.0 | 1.9 | 0.1 | 0.0 | 0.1 | 0.0 | 13.8 | OK | 0.2 | 0.0 | 0.2 | 261.9 | OK |
| 15.2 | 1.1 | 0.0 | 0.3 | 19.7 | 1.4 | 0.1 | 0.3 | 0.1 | 13.8 | OK | 0.8 | 0.2 | 0.9 | 261.9 | OK |
| 10.8 | 0.8 | 0.0 | -0.1 | 14.0 | 1.0 | 0.1 | -0.1 | 0.1 | 13.8 | OK | 0.8 | -0.1 | 0.8 | 261.9 | OK |
| 2.6 | 0.2 | 0.0 | 0.4 | 3.4 | 0.2 | 0.0 | 0.5 | 0.0 | 13.8 | OK | 0.3 | 0.3 | 0.7 | 261.9 | OK |
| 0.0 | -6.6 | 0.0 | 0.1 | 0.0 | -8.6 | 0.0 | 0.1 | 0.0 | 13.8 | OK | 3.0 | 0.1 | 3.0 | 261.9 | OK |
| 0.4 | 0.0 | 0.0 | 0.1 | 0.6 | 0.0 | -0.1 | 0.2 | 0.0 | 13.8 | OK | 0.5 | 0.1 | 0.5 | 261.9 | OK |
| 0.0 | -1.6 | 0.0 | 0.0 | 0.0 | -2.0 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.8 | 0.0 | 0.8 | 261.9 | OK |
| 3.1 | 0.2 | 0.0 | -0.1 | 4.0 | 0.3 | 0.0 | -0.1 | 0.0 | 13.8 | OK | 0.2 | -0.1 | 0.3 | 261.9 | OK |
| 8.9 | 0.7 | 0.0 | 0.0 | 11.5 | 0.8 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.6 | 0.0 | 0.6 | 261.9 | OK |
| 4.1 | 0.3 | 0.0 | 0.0 | 5.3 | 0.4 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.2 | 0.0 | 0.2 | 261.9 | OK |
| 0.0 | -1.4 | 0.0 | 0.0 | 0.0 | -1.8 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.9 | 0.0 | 0.9 | 261.9 | OK |
| 0.0 | -2.2 | 0.0 | 0.0 | 0.0 | -2.8 | 0.0 | -0.1 | 0.0 | 13.8 | OK | 1.2 | 0.0 | 1.2 | 261.9 | OK |
| 0.0 | -0.6 | 0.0 | 0.0 | 0.0 | -0.7 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.4 | 0.0 | 0.4 | 261.9 | OK |
| 1.3 | 0.1 | 0.0 | 0.0 | 1.7 | 0.1 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.1 | 0.0 | 0.1 | 261.9 | OK |
| 6.2 | 0.5 | 0.0 | 0.0 | 8.1 | 0.6 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.2 | 0.0 | 0.2 | 261.9 | OK |
| 0.5 | 0.0 | 0.0 | -0.1 | 0.6 | 0.0 | 0.1 | -0.1 | 0.0 | 13.8 | OK | 0.4 | -0.1 | 0.5 | 261.9 | OK |
| 0.0 | -1.2 | 0.0 | 0.0 | 0.0 | -1.6 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.6 | 0.0 | 0.6 | 261.9 | OK |
| 0.0 | -1.4 | 0.0 | 0.0 | 0.0 | -1.8 | 0.0 | 0.0 | 0.0 | 13.8 | OK | 0.7 | 0.0 | 0.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|------|------|-------|-------|------|------|-----|------|----|------|------|------|-------|----|
| 73.3 | 5.4 | -2.3 | -1.1 | 95.3 | 7.0 | -3.0 | -1.5 | 0.4 | 13.8 | OK | 24.1 | -1.1 | 24.1 | 261.9 | OK |
| 88.6 | 6.5 | -1.0 | -0.6 | 115.2 | 8.4 | -1.3 | -0.8 | 0.5 | 13.8 | OK | 12.1 | -0.6 | 12.2 | 261.9 | OK |
| 447.9 | 32.8 | -0.4 | -1.4 | 582.3 | 42.7 | -0.5 | -1.9 | 2.3 | 13.8 | OK | 18.0 | -1.3 | 18.1 | 261.9 | OK |
| 623.2 | 45.7 | -0.4 | -2.0 | 810.2 | 59.4 | -0.6 | -2.6 | 3.2 | 13.8 | OK | 23.7 | -1.9 | 23.9 | 261.9 | OK |
| 0.0 | -43.5 | -0.1 | 0.3 | 0.0 | -56.6 | -0.1 | 0.4 | 0.0 | 13.8 | OK | 19.1 | 0.3 | 19.1 | 261.9 | OK |
| 136.0 | 10.0 | -0.3 | -0.5 | 176.8 | 13.0 | -0.4 | -0.6 | 0.7 | 13.8 | OK | 7.2 | -0.5 | 7.3 | 261.9 | OK |
| 35.1 | 2.6 | -3.7 | -1.0 | 45.7 | 3.3 | -4.8 | -1.3 | 0.2 | 13.8 | OK | 36.1 | -0.9 | 36.1 | 261.9 | OK |
| 72.6 | 5.3 | -1.3 | -0.4 | 94.4 | 6.9 | -1.7 | -0.6 | 0.4 | 13.8 | OK | 14.5 | -0.4 | 14.6 | 261.9 | OK |
| 112.1 | 8.2 | -1.8 | -1.2 | 145.8 | 10.7 | -2.3 | -1.5 | 0.6 | 13.8 | OK | 20.4 | -1.1 | 20.5 | 261.9 | OK |
| 25.7 | 1.9 | -2.6 | -0.8 | 33.4 | 2.4 | -3.4 | -1.1 | 0.1 | 13.8 | OK | 26.0 | -0.8 | 26.1 | 261.9 | OK |
| 129.1 | 9.5 | -0.5 | -0.3 | 167.8 | 12.3 | -0.7 | -0.4 | 0.7 | 13.8 | OK | 9.1 | -0.3 | 9.1 | 261.9 | OK |
| 37.6 | 2.8 | -2.0 | -1.1 | 48.9 | 3.6 | -2.6 | -1.4 | 0.2 | 13.8 | OK | 20.5 | -1.0 | 20.6 | 261.9 | OK |
| 200.2 | 14.7 | -1.1 | -1.2 | 260.2 | 19.1 | -1.4 | -1.6 | 1.0 | 13.8 | OK | 16.3 | -1.2 | 16.4 | 261.9 | OK |
| 296.3 | 21.7 | -0.9 | -1.3 | 385.2 | 28.2 | -1.2 | -1.7 | 1.5 | 13.8 | OK | 17.8 | -1.2 | 17.9 | 261.9 | OK |
| 10.8 | 0.8 | -0.6 | 5.1 | 14.1 | 1.0 | -0.8 | 6.6 | 0.1 | 13.8 | OK | 6.0 | 4.7 | 10.1 | 261.9 | OK |
| 10.2 | 0.7 | 3.6 | 3.4 | 13.2 | 1.0 | 4.7 | 4.4 | 0.1 | 13.8 | OK | 34.8 | 3.1 | 35.2 | 261.9 | OK |
| 0.0 | -4.4 | 2.7 | 2.7 | 0.0 | -5.8 | 3.5 | 3.5 | 0.0 | 13.8 | OK | 27.8 | 2.5 | 28.1 | 261.9 | OK |
| 12.5 | 0.9 | 4.8 | 1.4 | 16.3 | 1.2 | 6.3 | 1.8 | 0.1 | 13.8 | OK | 46.2 | 1.3 | 46.3 | 261.9 | OK |
| 9.5 | 0.7 | -2.5 | 1.7 | 12.4 | 0.9 | -3.3 | 2.2 | 0.0 | 13.8 | OK | 24.3 | 1.6 | 24.4 | 261.9 | OK |
| 15.9 | 1.2 | -2.6 | 3.4 | 20.7 | 1.5 | -3.3 | 4.4 | 0.1 | 13.8 | OK | 25.0 | 3.1 | 25.6 | 261.9 | OK |
| 0.0 | -5.5 | 4.3 | 0.9 | 0.0 | -7.1 | 5.6 | 1.2 | 0.0 | 13.8 | OK | 43.2 | 0.8 | 43.3 | 261.9 | OK |
| 0.0 | -0.5 | -0.2 | 3.3 | 0.0 | -0.6 | -0.2 | 4.3 | 0.0 | 13.8 | OK | 1.8 | 3.1 | 5.7 | 261.9 | OK |
| 0.0 | -6.1 | 2.7 | -2.7 | 0.0 | -7.9 | 3.4 | -3.6 | 0.0 | 13.8 | OK | 27.8 | -2.5 | 28.2 | 261.9 | OK |
| 16.0 | 1.2 | -3.7 | -2.2 | 20.8 | 1.5 | -4.8 | -2.9 | 0.1 | 13.8 | OK | 36.0 | -2.0 | 36.2 | 261.9 | OK |
| 7.2 | 0.5 | 3.9 | -4.2 | 9.3 | 0.7 | 5.0 | -5.5 | 0.0 | 13.8 | OK | 37.0 | -3.9 | 37.6 | 261.9 | OK |
| 0.0 | -6.5 | 4.3 | -0.5 | 0.0 | -8.4 | 5.6 | -0.6 | 0.0 | 13.8 | OK | 43.8 | -0.4 | 43.8 | 261.9 | OK |
| 0.0 | -1.6 | -0.7 | -3.9 | 0.0 | -2.1 | -0.9 | -5.1 | 0.0 | 13.8 | OK | 7.6 | -3.6 | 9.8 | 261.9 | OK |
| 10.0 | 0.7 | -1.3 | -7.0 | 13.0 | 1.0 | -1.7 | -9.1 | 0.1 | 13.8 | OK | 12.7 | -6.5 | 16.9 | 261.9 | OK |
| 20.1 | 1.5 | -4.0 | -4.9 | 26.2 | 1.9 | -5.2 | -6.3 | 0.1 | 13.8 | OK | 38.5 | -4.5 | 39.3 | 261.9 | OK |
| 11.7 | 0.9 | 5.0 | -1.5 | 15.2 | 1.1 | 6.4 | -1.9 | 0.1 | 13.8 | OK | 47.6 | -1.4 | 47.6 | 261.9 | OK |
| 699.5 | 51.3 | 0.4 | 0.1 | 909.3 | 66.7 | 0.5 | 0.1 | 3.6 | 13.8 | OK | 25.6 | 0.1 | 25.6 | 261.9 | OK |
| 147.9 | 10.8 | -1.3 | 0.6 | 192.3 | 14.1 | -1.7 | 0.7 | 0.8 | 13.8 | OK | 17.2 | 0.5 | 17.3 | 261.9 | OK |
| 174.0 | 12.8 | -2.2 | 1.8 | 226.2 | 16.6 | -2.8 | 2.4 | 0.9 | 13.8 | OK | 26.2 | 1.7 | 26.4 | 261.9 | OK |
| 93.3 | 6.8 | -3.7 | 1.7 | 121.2 | 8.9 | -4.7 | 2.3 | 0.5 | 13.8 | OK | 37.7 | 1.6 | 37.8 | 261.9 | OK |
| 250.0 | 18.3 | -1.8 | 1.8 | 325.1 | 23.8 | -2.3 | 2.3 | 1.3 | 13.8 | OK | 24.6 | 1.7 | 24.8 | 261.9 | OK |
| 173.1 | 12.7 | -1.2 | 0.8 | 225.0 | 16.5 | -1.5 | 1.0 | 0.9 | 13.8 | OK | 16.7 | 0.7 | 16.7 | 261.9 | OK |
| 138.0 | 10.1 | -0.7 | 0.6 | 179.4 | 13.2 | -0.9 | 0.7 | 0.7 | 13.8 | OK | 10.6 | 0.5 | 10.6 | 261.9 | OK |
| 28.6 | 2.1 | -4.3 | 2.7 | 37.2 | 2.7 | -5.5 | 3.5 | 0.1 | 13.8 | OK | 41.4 | 2.5 | 41.6 | 261.9 | OK |
| 68.5 | 5.0 | -2.7 | 0.9 | 89.1 | 6.5 | -3.5 | 1.1 | 0.4 | 13.8 | OK | 27.5 | 0.8 | 27.5 | 261.9 | OK |
| 401.6 | 29.4 | -0.8 | 1.7 | 522.1 | 38.3 | -1.1 | 2.2 | 2.1 | 13.8 | OK | 20.3 | 1.5 | 20.5 | 261.9 | OK |
| 50.9 | 3.7 | -1.0 | 2.2 | 66.1 | 4.8 | -1.3 | 2.9 | 0.3 | 13.8 | OK | 10.9 | 2.1 | 11.5 | 261.9 | OK |
| 618.2 | 45.3 | -0.7 | 1.5 | 803.6 | 58.9 | -0.8 | 1.9 | 3.2 | 13.8 | OK | 25.5 | 1.4 | 25.7 | 261.9 | OK |
| 57.5 | 4.2 | -4.9 | 1.7 | 74.8 | 5.5 | -6.4 | 2.2 | 0.3 | 13.8 | OK | 48.6 | 1.5 | 48.6 | 261.9 | OK |
| 91.3 | 6.7 | -2.1 | 1.1 | 118.7 | 8.7 | -2.8 | 1.4 | 0.5 | 13.8 | OK | 23.1 | 1.0 | 23.1 | 261.9 | OK |
| 101.2 | 7.4 | -5.8 | -2.7 | 131.5 | 9.6 | -7.5 | -3.5 | 0.5 | 13.8 | OK | 58.4 | -2.5 | 58.5 | 261.9 | OK |
| 84.3 | 6.2 | -2.8 | -1.3 | 109.6 | 8.0 | -3.7 | -1.7 | 0.4 | 13.8 | OK | 29.7 | -1.2 | 29.8 | 261.9 | OK |
| 361.0 | 26.5 | -0.6 | -1.7 | 469.3 | 34.4 | -0.7 | -2.2 | 1.9 | 13.8 | OK | 16.6 | -1.6 | 16.9 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|------|------|-------|--------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 590.6 | 43.3 | 0.0 | 0.3 | 767.8 | 56.3 | 0.0 | 0.4 | 3.1 | 13.8 | OK | 18.5 | 0.3 | 18.5 | 261.9 | OK |
| 0.0 | -73.1 | -0.9 | -3.3 | 0.0 | -95.1 | -1.2 | -4.3 | 0.0 | 13.8 | OK | 39.9 | -3.0 | 40.3 | 261.9 | OK |
| 96.1 | 7.0 | -1.8 | -1.1 | 124.9 | 9.2 | -2.4 | -1.5 | 0.5 | 13.8 | OK | 20.5 | -1.1 | 20.6 | 261.9 | OK |
| 59.0 | 4.3 | -8.7 | -1.7 | 76.8 | 5.6 | -11.3 | -2.2 | 0.3 | 13.8 | OK | 85.0 | -1.6 | 85.0 | 261.9 | OK |
| 74.9 | 5.5 | -3.5 | -0.8 | 97.3 | 7.1 | -4.5 | -1.0 | 0.4 | 13.8 | OK | 35.3 | -0.7 | 35.4 | 261.9 | OK |
| 131.6 | 9.6 | -4.6 | -1.9 | 171.1 | 12.5 | -6.0 | -2.5 | 0.7 | 13.8 | OK | 47.9 | -1.8 | 48.0 | 261.9 | OK |
| 35.2 | 2.6 | -6.1 | -1.0 | 45.7 | 3.4 | -7.9 | -1.3 | 0.2 | 13.8 | OK | 59.3 | -0.9 | 59.3 | 261.9 | OK |
| 96.2 | 7.1 | -1.8 | -0.7 | 125.1 | 9.2 | -2.4 | -0.9 | 0.5 | 13.8 | OK | 20.3 | -0.6 | 20.4 | 261.9 | OK |
| 47.6 | 3.5 | -5.0 | -2.2 | 61.9 | 4.5 | -6.5 | -2.9 | 0.2 | 13.8 | OK | 49.2 | -2.0 | 49.3 | 261.9 | OK |
| 190.8 | 14.0 | -2.8 | -2.2 | 248.1 | 18.2 | -3.7 | -2.9 | 1.0 | 13.8 | OK | 33.0 | -2.0 | 33.2 | 261.9 | OK |
| 248.8 | 18.2 | -2.2 | -2.0 | 323.4 | 23.7 | -2.8 | -2.6 | 1.3 | 13.8 | OK | 28.3 | -1.9 | 28.5 | 261.9 | OK |
| 16.8 | 1.2 | -1.2 | 9.8 | 21.9 | 1.6 | -1.6 | 12.7 | 0.1 | 13.8 | OK | 12.0 | 9.0 | 19.7 | 261.9 | OK |
| 4.0 | 0.3 | 7.4 | 7.2 | 5.3 | 0.4 | 9.6 | 9.3 | 0.0 | 13.8 | OK | 70.7 | 6.6 | 71.6 | 261.9 | OK |
| 0.0 | -10.2 | 5.5 | 5.9 | 0.0 | -13.2 | 7.1 | 7.7 | 0.0 | 13.8 | OK | 56.2 | 5.5 | 57.0 | 261.9 | OK |
| 2.1 | 0.2 | 11.4 | 2.3 | 2.7 | 0.2 | 14.8 | 3.0 | 0.0 | 13.8 | OK | 108.4 | 2.2 | 108.5 | 261.9 | OK |
| 15.5 | 1.1 | -5.9 | 2.9 | 20.1 | 1.5 | -7.6 | 3.8 | 0.1 | 13.8 | OK | 56.5 | 2.7 | 56.7 | 261.9 | OK |
| 31.4 | 2.3 | -7.1 | 5.2 | 40.9 | 3.0 | -9.2 | 6.8 | 0.2 | 13.8 | OK | 68.5 | 4.8 | 69.0 | 261.9 | OK |
| 0.0 | -15.1 | 9.4 | 2.0 | 0.0 | -19.6 | 12.2 | 2.6 | 0.0 | 13.8 | OK | 95.5 | 1.9 | 95.6 | 261.9 | OK |
| 0.0 | -3.4 | -0.9 | 6.9 | 0.0 | -4.4 | -1.1 | 8.9 | 0.0 | 13.8 | OK | 9.6 | 6.4 | 14.6 | 261.9 | OK |
| 0.0 | -8.8 | 4.7 | -5.7 | 0.0 | -11.5 | 6.1 | -7.4 | 0.0 | 13.8 | OK | 48.4 | -5.3 | 49.3 | 261.9 | OK |
| 12.5 | 0.9 | -6.0 | -2.2 | 16.2 | 1.2 | -7.8 | -2.8 | 0.1 | 13.8 | OK | 57.4 | -2.0 | 57.5 | 261.9 | OK |
| 7.6 | 0.6 | 6.9 | -7.4 | 9.8 | 0.7 | 9.0 | -9.6 | 0.0 | 13.8 | OK | 66.0 | -6.8 | 67.0 | 261.9 | OK |
| 0.0 | -15.4 | 9.0 | -2.3 | 0.0 | -20.0 | 11.7 | -3.0 | 0.0 | 13.8 | OK | 92.2 | -2.2 | 92.3 | 261.9 | OK |
| 0.0 | -5.9 | -1.4 | -6.0 | 0.0 | -7.6 | -1.8 | -7.8 | 0.0 | 13.8 | OK | 16.0 | -5.6 | 18.7 | 261.9 | OK |
| 23.3 | 1.7 | -1.6 | -9.5 | 30.3 | 2.2 | -2.0 | -12.4 | 0.1 | 13.8 | OK | 15.5 | -8.8 | 21.8 | 261.9 | OK |
| 38.6 | 2.8 | -8.0 | -4.7 | 50.2 | 3.7 | -10.4 | -6.1 | 0.2 | 13.8 | OK | 77.4 | -4.3 | 77.7 | 261.9 | OK |
| 4.4 | 0.3 | 11.2 | -2.9 | 5.7 | 0.4 | 14.6 | -3.8 | 0.0 | 13.8 | OK | 106.8 | -2.7 | 106.9 | 261.9 | OK |
| 413.1 | 30.3 | -0.8 | 3.5 | 537.0 | 39.4 | -1.1 | 4.5 | 2.1 | 13.8 | OK | 20.7 | 3.2 | 21.4 | 261.9 | OK |
| 27.8 | 2.0 | -2.5 | 0.6 | 36.1 | 2.6 | -3.3 | 0.8 | 0.1 | 13.8 | OK | 24.8 | 0.6 | 24.8 | 261.9 | OK |
| 112.0 | 8.2 | -4.5 | 2.2 | 145.5 | 10.7 | -5.8 | 2.8 | 0.6 | 13.8 | OK | 46.1 | 2.0 | 46.2 | 261.9 | OK |
| 80.6 | 5.9 | -6.8 | 1.4 | 104.8 | 7.7 | -8.8 | 1.8 | 0.4 | 13.8 | OK | 67.0 | 1.3 | 67.0 | 261.9 | OK |
| 129.0 | 9.5 | -3.6 | 1.1 | 167.7 | 12.3 | -4.6 | 1.4 | 0.7 | 13.8 | OK | 37.9 | 1.0 | 37.9 | 261.9 | OK |
| 23.3 | 1.7 | -1.6 | 0.9 | 30.3 | 2.2 | -2.1 | 1.2 | 0.1 | 13.8 | OK | 16.4 | 0.9 | 16.5 | 261.9 | OK |
| 0.0 | -23.1 | -0.8 | 0.1 | 0.0 | -30.0 | -1.0 | 0.1 | 0.0 | 13.8 | OK | 17.1 | 0.1 | 17.1 | 261.9 | OK |
| 15.3 | 1.1 | -6.5 | 3.5 | 19.9 | 1.5 | -8.4 | 4.5 | 0.1 | 13.8 | OK | 62.0 | 3.2 | 62.2 | 261.9 | OK |
| 28.8 | 2.1 | -4.7 | 0.7 | 37.4 | 2.7 | -6.1 | 0.9 | 0.1 | 13.8 | OK | 45.7 | 0.6 | 45.8 | 261.9 | OK |
| 159.9 | 11.7 | -2.2 | 1.7 | 207.9 | 15.2 | -2.9 | 2.2 | 0.8 | 13.8 | OK | 26.1 | 1.5 | 26.3 | 261.9 | OK |
| 0.0 | -99.5 | 0.3 | -2.1 | 0.0 | -129.3 | 0.4 | -2.7 | 0.0 | 13.8 | OK | 45.4 | -1.9 | 45.6 | 261.9 | OK |
| 269.4 | 19.8 | -1.7 | 0.8 | 350.2 | 25.7 | -2.2 | 1.0 | 1.4 | 13.8 | OK | 24.3 | 0.7 | 24.3 | 261.9 | OK |
| 63.9 | 4.7 | -8.6 | 3.7 | 83.1 | 6.1 | -11.1 | 4.8 | 0.3 | 13.8 | OK | 83.5 | 3.4 | 83.7 | 261.9 | OK |
| 31.8 | 2.3 | -3.8 | 1.6 | 41.4 | 3.0 | -4.9 | 2.1 | 0.2 | 13.8 | OK | 37.2 | 1.5 | 37.3 | 261.9 | OK |
| 231.4 | 17.0 | -2.3 | 1.9 | 300.8 | 22.1 | -3.0 | 2.5 | 1.2 | 13.8 | OK | 29.0 | 1.7 | 29.1 | 261.9 | OK |
| 109.5 | 8.0 | 0.2 | -0.7 | 142.4 | 10.4 | 0.3 | -0.8 | 0.6 | 13.8 | OK | 5.7 | -0.6 | 5.8 | 261.9 | OK |
| 117.2 | 8.6 | -1.3 | 4.0 | 152.4 | 11.2 | -1.7 | 5.2 | 0.6 | 13.8 | OK | 16.3 | 3.7 | 17.5 | 261.9 | OK |
| 132.6 | 9.7 | -0.9 | 1.7 | 172.3 | 12.6 | -1.2 | 2.3 | 0.7 | 13.8 | OK | 12.7 | 1.6 | 13.0 | 261.9 | OK |
| 121.2 | 8.9 | -2.5 | 1.4 | 157.5 | 11.5 | -3.2 | 1.9 | 0.6 | 13.8 | OK | 27.2 | 1.3 | 27.3 | 261.9 | OK |
| 119.9 | 8.8 | -1.4 | 0.8 | 155.9 | 11.4 | -1.8 | 1.0 | 0.6 | 13.8 | OK | 16.6 | 0.7 | 16.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|------|------|-------|--------|-------|-------|-----|------|----|------|------|------|-------|----|
| 220.7 | 16.2 | -2.6 | 2.2 | 286.9 | 21.0 | -3.4 | 2.8 | 1.1 | 13.8 | OK | 31.7 | 2.0 | 31.9 | 261.9 | OK |
| 70.7 | 5.2 | -8.5 | 2.1 | 91.9 | 6.7 | -11.1 | 2.7 | 0.4 | 13.8 | OK | 83.6 | 1.9 | 83.7 | 261.9 | OK |
| 41.2 | 3.0 | -5.9 | 1.4 | 53.6 | 3.9 | -7.7 | 1.8 | 0.2 | 13.8 | OK | 57.7 | 1.3 | 57.7 | 261.9 | OK |
| 165.9 | 12.2 | -4.3 | 1.9 | 215.6 | 15.8 | -5.6 | 2.5 | 0.9 | 13.8 | OK | 46.4 | 1.8 | 46.5 | 261.9 | OK |
| 125.8 | 9.2 | -5.4 | 2.8 | 163.5 | 12.0 | -7.0 | 3.7 | 0.7 | 13.8 | OK | 55.5 | 2.6 | 55.7 | 261.9 | OK |
| 59.7 | 4.4 | -4.7 | 2.4 | 77.6 | 5.7 | -6.1 | 3.1 | 0.3 | 13.8 | OK | 46.8 | 2.2 | 47.0 | 261.9 | OK |
| 133.6 | 9.8 | -1.0 | 2.3 | 173.6 | 12.7 | -1.4 | 2.9 | 0.7 | 13.8 | OK | 14.1 | 2.1 | 14.6 | 261.9 | OK |
| 97.9 | 7.2 | -3.1 | 0.9 | 127.3 | 9.3 | -4.1 | 1.1 | 0.5 | 13.8 | OK | 32.7 | 0.8 | 32.8 | 261.9 | OK |
| 33.3 | 2.4 | -7.0 | -5.3 | 43.3 | 3.2 | -9.1 | -6.9 | 0.2 | 13.8 | OK | 68.1 | -4.9 | 68.6 | 261.9 | OK |
| 0.0 | -9.0 | 3.7 | -4.5 | 0.0 | -11.7 | 4.8 | -5.8 | 0.0 | 13.8 | OK | 39.2 | -4.2 | 39.9 | 261.9 | OK |
| 5.4 | 0.4 | 8.3 | -2.1 | 7.0 | 0.5 | 10.8 | -2.7 | 0.0 | 13.8 | OK | 79.6 | -1.9 | 79.6 | 261.9 | OK |
| 0.0 | -11.0 | 6.8 | -1.3 | 0.0 | -14.3 | 8.8 | -1.7 | 0.0 | 13.8 | OK | 69.5 | -1.2 | 69.5 | 261.9 | OK |
| 0.0 | -4.6 | -1.5 | -5.8 | 0.0 | -6.0 | -1.9 | -7.5 | 0.0 | 13.8 | OK | 16.0 | -5.3 | 18.5 | 261.9 | OK |
| 14.9 | 1.1 | -6.0 | -2.6 | 19.4 | 1.4 | -7.8 | -3.4 | 0.1 | 13.8 | OK | 57.7 | -2.4 | 57.8 | 261.9 | OK |
| 15.3 | 1.1 | -1.7 | -9.1 | 19.9 | 1.5 | -2.3 | -11.8 | 0.1 | 13.8 | OK | 17.1 | -8.4 | 22.5 | 261.9 | OK |
| 4.9 | 0.4 | 5.6 | -6.0 | 6.4 | 0.5 | 7.3 | -7.8 | 0.0 | 13.8 | OK | 53.3 | -5.6 | 54.1 | 261.9 | OK |
| 8.3 | 0.6 | 5.5 | 4.9 | 10.8 | 0.8 | 7.2 | 6.3 | 0.0 | 13.8 | OK | 52.8 | 4.5 | 53.4 | 261.9 | OK |
| 0.0 | -1.5 | -0.1 | 4.8 | 0.0 | -1.9 | -0.2 | 6.2 | 0.0 | 13.8 | OK | 1.8 | 4.4 | 7.9 | 261.9 | OK |
| 12.9 | 0.9 | -3.6 | 2.2 | 16.8 | 1.2 | -4.6 | 2.8 | 0.1 | 13.8 | OK | 34.4 | 2.0 | 34.6 | 261.9 | OK |
| 26.8 | 2.0 | -4.4 | 3.5 | 34.9 | 2.6 | -5.8 | 4.5 | 0.1 | 13.8 | OK | 43.2 | 3.2 | 43.5 | 261.9 | OK |
| 6.7 | 0.5 | 8.2 | 1.9 | 8.7 | 0.6 | 10.7 | 2.5 | 0.0 | 13.8 | OK | 78.4 | 1.8 | 78.5 | 261.9 | OK |
| 0.0 | -9.6 | 7.0 | 1.5 | 0.0 | -12.4 | 9.0 | 2.0 | 0.0 | 13.8 | OK | 70.3 | 1.4 | 70.3 | 261.9 | OK |
| 15.5 | 1.1 | -0.4 | 6.7 | 20.2 | 1.5 | -0.6 | 8.7 | 0.1 | 13.8 | OK | 4.7 | 6.2 | 11.7 | 261.9 | OK |
| 0.0 | -6.2 | 4.2 | 4.2 | 0.0 | -8.1 | 5.5 | 5.4 | 0.0 | 13.8 | OK | 42.8 | 3.9 | 43.3 | 261.9 | OK |
| 44.7 | 3.3 | -1.5 | -0.4 | 58.1 | 4.3 | -1.9 | -0.6 | 0.2 | 13.8 | OK | 15.6 | -0.4 | 15.6 | 261.9 | OK |
| 68.1 | 5.0 | -3.9 | -1.0 | 88.5 | 6.5 | -5.0 | -1.3 | 0.4 | 13.8 | OK | 39.1 | -0.9 | 39.1 | 261.9 | OK |
| 36.8 | 2.7 | -2.8 | -0.6 | 47.9 | 3.5 | -3.7 | -0.8 | 0.2 | 13.8 | OK | 28.0 | -0.6 | 28.0 | 261.9 | OK |
| 0.0 | -53.0 | -0.1 | 0.5 | 0.0 | -68.9 | -0.2 | 0.6 | 0.0 | 13.8 | OK | 23.9 | 0.5 | 23.9 | 261.9 | OK |
| 13.3 | 1.0 | -0.7 | -0.3 | 17.3 | 1.3 | -0.9 | -0.4 | 0.1 | 13.8 | OK | 7.2 | -0.3 | 7.2 | 261.9 | OK |
| 0.0 | -38.9 | -0.2 | -0.5 | 0.0 | -50.6 | -0.2 | -0.7 | 0.0 | 13.8 | OK | 18.2 | -0.5 | 18.2 | 261.9 | OK |
| 49.9 | 3.7 | -5.0 | -2.1 | 64.9 | 4.8 | -6.5 | -2.8 | 0.3 | 13.8 | OK | 49.5 | -2.0 | 49.6 | 261.9 | OK |
| 98.6 | 7.2 | -2.5 | -1.3 | 128.2 | 9.4 | -3.2 | -1.6 | 0.5 | 13.8 | OK | 26.7 | -1.2 | 26.8 | 261.9 | OK |
| 19.6 | 1.4 | -4.1 | -2.2 | 25.5 | 1.9 | -5.4 | -2.9 | 0.1 | 13.8 | OK | 39.9 | -2.1 | 40.0 | 261.9 | OK |
| 82.4 | 6.0 | -1.1 | -0.8 | 107.1 | 7.9 | -1.4 | -1.0 | 0.4 | 13.8 | OK | 12.9 | -0.7 | 13.0 | 261.9 | OK |
| 41.5 | 3.0 | -1.1 | -0.5 | 54.0 | 4.0 | -1.4 | -0.6 | 0.2 | 13.8 | OK | 11.3 | -0.4 | 11.4 | 261.9 | OK |
| 43.7 | 3.2 | -2.2 | -1.0 | 56.8 | 4.2 | -2.9 | -1.3 | 0.2 | 13.8 | OK | 22.7 | -0.9 | 22.7 | 261.9 | OK |
| 0.0 | -20.2 | -0.6 | -0.3 | 0.0 | -26.3 | -0.8 | -0.4 | 0.0 | 13.8 | OK | 14.1 | -0.3 | 14.1 | 261.9 | OK |
| 108.9 | 8.0 | -1.9 | -0.7 | 141.5 | 10.4 | -2.5 | -0.9 | 0.6 | 13.8 | OK | 21.8 | -0.7 | 21.8 | 261.9 | OK |
| 0.0 | -14.1 | -2.0 | -0.1 | 0.0 | -18.4 | -2.7 | -0.1 | 0.0 | 13.8 | OK | 25.4 | -0.1 | 25.4 | 261.9 | OK |
| 0.0 | -91.9 | -1.1 | -0.2 | 0.0 | -119.5 | -1.4 | -0.2 | 0.0 | 13.8 | OK | 49.7 | -0.2 | 49.7 | 261.9 | OK |
| 0.0 | -45.9 | 0.6 | -2.5 | 0.0 | -59.7 | 0.7 | -3.3 | 0.0 | 13.8 | OK | 25.0 | -2.4 | 25.4 | 261.9 | OK |
| 0.0 | -63.5 | -1.1 | 0.3 | 0.0 | -82.6 | -1.4 | 0.3 | 0.0 | 13.8 | OK | 37.7 | 0.2 | 37.7 | 261.9 | OK |
| 0.0 | -48.0 | -2.8 | 0.7 | 0.0 | -62.4 | -3.7 | 0.9 | 0.0 | 13.8 | OK | 47.2 | 0.7 | 47.2 | 261.9 | OK |
| 0.0 | -93.9 | -2.1 | 0.5 | 0.0 | -122.0 | -2.8 | 0.7 | 0.0 | 13.8 | OK | 60.2 | 0.5 | 60.2 | 261.9 | OK |
| 0.0 | -3.2 | -3.2 | 0.9 | 0.0 | -4.2 | -4.2 | 1.2 | 0.0 | 13.8 | OK | 32.1 | 0.9 | 32.1 | 261.9 | OK |
| 36.0 | 2.6 | -8.4 | -0.3 | 46.9 | 3.4 | -10.9 | -0.4 | 0.2 | 13.8 | OK | 80.7 | -0.3 | 80.7 | 261.9 | OK |
| 0.0 | -1.9 | -5.7 | 0.7 | 0.0 | -2.5 | -7.4 | 0.9 | 0.0 | 13.8 | OK | 54.7 | 0.6 | 54.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|------|--------|------|------|-------|--------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 22.2 | 1.6 | -4.8 | 0.4 | 28.8 | 2.1 | -6.3 | 0.5 | 0.1 | 13.8 | OK | 46.9 | 0.4 | 46.9 | 261.9 | OK |
| 31.3 | 2.3 | -6.1 | 1.7 | 40.7 | 3.0 | -8.0 | 2.2 | 0.2 | 13.8 | OK | 59.3 | 1.6 | 59.4 | 261.9 | OK |
| 0.0 | -10.6 | -4.8 | 1.0 | 0.0 | -13.7 | -6.2 | 1.3 | 0.0 | 13.8 | OK | 50.3 | 0.9 | 50.3 | 261.9 | OK |
| 0.0 | -66.1 | -0.8 | -0.2 | 0.0 | -85.9 | -1.0 | -0.3 | 0.0 | 13.8 | OK | 35.8 | -0.2 | 35.8 | 261.9 | OK |
| 0.0 | -33.4 | -3.9 | 0.8 | 0.0 | -43.5 | -5.0 | 1.0 | 0.0 | 13.8 | OK | 51.1 | 0.7 | 51.1 | 261.9 | OK |
| 31.8 | 2.3 | -7.4 | -3.5 | 41.3 | 3.0 | -9.6 | -4.6 | 0.2 | 13.8 | OK | 71.1 | -3.3 | 71.3 | 261.9 | OK |
| 0.0 | -6.5 | 5.3 | -6.4 | 0.0 | -8.4 | 6.9 | -8.3 | 0.0 | 13.8 | OK | 53.6 | -5.9 | 54.6 | 261.9 | OK |
| 3.3 | 0.2 | 13.1 | -3.5 | 4.3 | 0.3 | 17.0 | -4.5 | 0.0 | 13.8 | OK | 124.9 | -3.2 | 125.0 | 261.9 | OK |
| 0.0 | -18.5 | 10.4 | -2.9 | 0.0 | -24.0 | 13.5 | -3.8 | 0.0 | 13.8 | OK | 106.8 | -2.7 | 106.9 | 261.9 | OK |
| 0.0 | -4.2 | -1.2 | -5.6 | 0.0 | -5.5 | -1.6 | -7.2 | 0.0 | 13.8 | OK | 13.4 | -5.2 | 16.1 | 261.9 | OK |
| 4.5 | 0.3 | -5.4 | -1.4 | 5.8 | 0.4 | -7.0 | -1.8 | 0.0 | 13.8 | OK | 51.2 | -1.3 | 51.2 | 261.9 | OK |
| 27.4 | 2.0 | -1.1 | -9.1 | 35.6 | 2.6 | -1.4 | -11.8 | 0.1 | 13.8 | OK | 11.3 | -8.4 | 18.4 | 261.9 | OK |
| 9.0 | 0.7 | 7.6 | -8.1 | 11.7 | 0.9 | 9.9 | -10.6 | 0.0 | 13.8 | OK | 73.0 | -7.5 | 74.2 | 261.9 | OK |
| 5.1 | 0.4 | 8.0 | 8.6 | 6.6 | 0.5 | 10.4 | 11.1 | 0.0 | 13.8 | OK | 76.5 | 7.9 | 77.7 | 261.9 | OK |
| 0.0 | -2.5 | -1.7 | 7.5 | 0.0 | -3.3 | -2.2 | 9.8 | 0.0 | 13.8 | OK | 17.3 | 7.0 | 21.1 | 261.9 | OK |
| 16.8 | 1.2 | -7.1 | 2.7 | 21.8 | 1.6 | -9.3 | 3.5 | 0.1 | 13.8 | OK | 68.4 | 2.5 | 68.6 | 261.9 | OK |
| 38.6 | 2.8 | -9.1 | 4.7 | 50.2 | 3.7 | -11.9 | 6.1 | 0.2 | 13.8 | OK | 88.1 | 4.3 | 88.4 | 261.9 | OK |
| 0.1 | 0.0 | 13.3 | 2.9 | 0.1 | 0.0 | 17.3 | 3.8 | 0.0 | 13.8 | OK | 126.6 | 2.7 | 126.7 | 261.9 | OK |
| 0.0 | -18.7 | 10.7 | 2.6 | 0.0 | -24.3 | 13.9 | 3.4 | 0.0 | 13.8 | OK | 109.4 | 2.4 | 109.5 | 261.9 | OK |
| 23.5 | 1.7 | -1.9 | 10.6 | 30.5 | 2.2 | -2.5 | 13.8 | 0.1 | 13.8 | OK | 19.3 | 9.8 | 25.7 | 261.9 | OK |
| 0.0 | -10.2 | 5.7 | 7.1 | 0.0 | -13.3 | 7.4 | 9.3 | 0.0 | 13.8 | OK | 58.8 | 6.6 | 59.9 | 261.9 | OK |
| 40.2 | 2.9 | -3.4 | -1.3 | 52.2 | 3.8 | -4.4 | -1.7 | 0.2 | 13.8 | OK | 33.7 | -1.2 | 33.8 | 261.9 | OK |
| 69.3 | 5.1 | -8.0 | -1.8 | 90.1 | 6.6 | -10.4 | -2.3 | 0.4 | 13.8 | OK | 78.1 | -1.7 | 78.1 | 261.9 | OK |
| 36.4 | 2.7 | -5.9 | -1.5 | 47.3 | 3.5 | -7.6 | -2.0 | 0.2 | 13.8 | OK | 57.1 | -1.4 | 57.1 | 261.9 | OK |
| 64.5 | 4.7 | -0.7 | -1.0 | 83.9 | 6.2 | -0.9 | -1.3 | 0.3 | 13.8 | OK | 8.7 | -0.9 | 8.9 | 261.9 | OK |
| 1.2 | 0.1 | -2.2 | -1.5 | 1.6 | 0.1 | -2.9 | -1.9 | 0.0 | 13.8 | OK | 21.4 | -1.4 | 21.5 | 261.9 | OK |
| 0.0 | -96.1 | -0.4 | -3.0 | 0.0 | -124.9 | -0.5 | -3.9 | 0.0 | 13.8 | OK | 44.9 | -2.8 | 45.2 | 261.9 | OK |
| 57.1 | 4.2 | -9.8 | -3.7 | 74.3 | 5.4 | -12.7 | -4.8 | 0.3 | 13.8 | OK | 95.1 | -3.4 | 95.3 | 261.9 | OK |
| 86.8 | 6.4 | -5.3 | -2.5 | 112.8 | 8.3 | -6.9 | -3.3 | 0.5 | 13.8 | OK | 53.3 | -2.3 | 53.4 | 261.9 | OK |
| 25.6 | 1.9 | -7.5 | -2.4 | 33.3 | 2.4 | -9.8 | -3.1 | 0.1 | 13.8 | OK | 72.7 | -2.2 | 72.8 | 261.9 | OK |
| 56.1 | 4.1 | -2.5 | -1.7 | 72.9 | 5.3 | -3.2 | -2.2 | 0.3 | 13.8 | OK | 25.3 | -1.6 | 25.4 | 261.9 | OK |
| 52.9 | 3.9 | -2.5 | -1.3 | 68.7 | 5.0 | -3.3 | -1.7 | 0.3 | 13.8 | OK | 25.7 | -1.2 | 25.8 | 261.9 | OK |
| 41.6 | 3.0 | -4.6 | -1.4 | 54.1 | 4.0 | -6.0 | -1.8 | 0.2 | 13.8 | OK | 45.3 | -1.3 | 45.4 | 261.9 | OK |
| 6.7 | 0.5 | -1.3 | -1.8 | 8.7 | 0.6 | -1.7 | -2.3 | 0.0 | 13.8 | OK | 12.6 | -1.6 | 12.9 | 261.9 | OK |
| 90.2 | 6.6 | -4.3 | -1.8 | 117.3 | 8.6 | -5.7 | -2.3 | 0.5 | 13.8 | OK | 44.2 | -1.6 | 44.3 | 261.9 | OK |
| 0.0 | -10.0 | -6.7 | -2.3 | 0.0 | -13.0 | -8.7 | -3.0 | 0.0 | 13.8 | OK | 68.0 | -2.1 | 68.1 | 261.9 | OK |
| 0.0 | -53.2 | -2.9 | -1.6 | 0.0 | -69.1 | -3.8 | -2.1 | 0.0 | 13.8 | OK | 50.4 | -1.5 | 50.5 | 261.9 | OK |
| 0.0 | -99.1 | -1.3 | -1.9 | 0.0 | -128.8 | -1.8 | -2.4 | 0.0 | 13.8 | OK | 55.1 | -1.7 | 55.2 | 261.9 | OK |
| 0.0 | -45.9 | -0.7 | -1.5 | 0.0 | -59.7 | -0.9 | -1.9 | 0.0 | 13.8 | OK | 26.2 | -1.4 | 26.3 | 261.9 | OK |
| 0.0 | -131.5 | -0.2 | 1.4 | 0.0 | -170.9 | -0.2 | 1.9 | 0.0 | 13.8 | OK | 57.8 | 1.3 | 57.8 | 261.9 | OK |
| 0.0 | -100.6 | -0.7 | -1.3 | 0.0 | -130.8 | -1.0 | -1.7 | 0.0 | 13.8 | OK | 50.0 | -1.2 | 50.0 | 261.9 | OK |
| 18.2 | 1.3 | -8.7 | 0.3 | 23.7 | 1.7 | -11.3 | 0.4 | 0.1 | 13.8 | OK | 83.1 | 0.3 | 83.1 | 261.9 | OK |
| 0.0 | -46.2 | -3.9 | -0.3 | 0.0 | -60.0 | -5.0 | -0.4 | 0.0 | 13.8 | OK | 56.4 | -0.3 | 56.5 | 261.9 | OK |
| 0.0 | -25.7 | -5.5 | -0.8 | 0.0 | -33.4 | -7.2 | -1.0 | 0.0 | 13.8 | OK | 63.6 | -0.7 | 63.6 | 261.9 | OK |
| 0.0 | -3.0 | -5.8 | 0.4 | 0.0 | -3.9 | -7.6 | 0.6 | 0.0 | 13.8 | OK | 56.9 | 0.4 | 56.9 | 261.9 | OK |
| 0.0 | -93.1 | -1.6 | -0.4 | 0.0 | -121.0 | -2.1 | -0.6 | 0.0 | 13.8 | OK | 55.2 | -0.4 | 55.2 | 261.9 | OK |
| 0.0 | -11.2 | -5.1 | -1.9 | 0.0 | -14.6 | -6.6 | -2.5 | 0.0 | 13.8 | OK | 53.4 | -1.8 | 53.5 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|------|------|-------|--------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 0.0 | -69.8 | -3.8 | -2.0 | 0.0 | -90.8 | -4.9 | -2.6 | 0.0 | 13.8 | OK | 65.5 | -1.8 | 65.6 | 261.9 | OK |
| 0.0 | -71.6 | -2.8 | -0.8 | 0.0 | -93.1 | -3.7 | -1.1 | 0.0 | 13.8 | OK | 57.5 | -0.8 | 57.6 | 261.9 | OK |
| 27.2 | 2.0 | -2.0 | 8.9 | 35.4 | 2.6 | -2.6 | 11.5 | 0.1 | 13.8 | OK | 19.8 | 8.2 | 24.3 | 261.9 | OK |
| 8.6 | 0.6 | 7.4 | 8.9 | 11.2 | 0.8 | 9.6 | 11.6 | 0.0 | 13.8 | OK | 70.8 | 8.3 | 72.2 | 261.9 | OK |
| 0.0 | -5.5 | 5.2 | 7.3 | 0.0 | -7.2 | 6.7 | 9.5 | 0.0 | 13.8 | OK | 51.6 | 6.8 | 52.9 | 261.9 | OK |
| 1.0 | 0.1 | 13.9 | 3.3 | 1.3 | 0.1 | 18.0 | 4.4 | 0.0 | 13.8 | OK | 132.2 | 3.1 | 132.3 | 261.9 | OK |
| 8.3 | 0.6 | -5.9 | 1.1 | 10.8 | 0.8 | -7.7 | 1.4 | 0.0 | 13.8 | OK | 56.4 | 1.0 | 56.5 | 261.9 | OK |
| 27.6 | 2.0 | -8.0 | 2.1 | 35.9 | 2.6 | -10.4 | 2.8 | 0.1 | 13.8 | OK | 77.1 | 2.0 | 77.2 | 261.9 | OK |
| 0.0 | -20.9 | 10.6 | 3.2 | 0.0 | -27.2 | 13.8 | 4.1 | 0.0 | 13.8 | OK | 110.1 | 2.9 | 110.2 | 261.9 | OK |
| 3.1 | 0.2 | -1.9 | 5.9 | 4.1 | 0.3 | -2.5 | 7.7 | 0.0 | 13.8 | OK | 18.4 | 5.5 | 20.7 | 261.9 | OK |
| 0.0 | -2.7 | 4.9 | -7.3 | 0.0 | -3.5 | 6.4 | -9.4 | 0.0 | 13.8 | OK | 47.8 | -6.7 | 49.2 | 261.9 | OK |
| 11.8 | 0.9 | -6.0 | -0.6 | 15.4 | 1.1 | -7.8 | -0.8 | 0.1 | 13.8 | OK | 57.5 | -0.6 | 57.5 | 261.9 | OK |
| 7.6 | 0.6 | 6.9 | -9.5 | 9.9 | 0.7 | 9.0 | -12.3 | 0.0 | 13.8 | OK | 66.4 | -8.8 | 68.1 | 261.9 | OK |
| 0.0 | -21.6 | 10.6 | -3.3 | 0.0 | -28.0 | 13.7 | -4.3 | 0.0 | 13.8 | OK | 109.7 | -3.0 | 109.9 | 261.9 | OK |
| 3.1 | 0.2 | -2.3 | -5.5 | 4.0 | 0.3 | -3.0 | -7.2 | 0.0 | 13.8 | OK | 22.3 | -5.1 | 24.0 | 261.9 | OK |
| 29.3 | 2.1 | -2.5 | -9.1 | 38.1 | 2.8 | -3.2 | -11.8 | 0.2 | 13.8 | OK | 24.7 | -8.4 | 28.7 | 261.9 | OK |
| 28.8 | 2.1 | -8.1 | -2.1 | 37.4 | 2.7 | -10.5 | -2.7 | 0.1 | 13.8 | OK | 78.1 | -1.9 | 78.2 | 261.9 | OK |
| 2.6 | 0.2 | 13.7 | -4.2 | 3.3 | 0.2 | 17.8 | -5.5 | 0.0 | 13.8 | OK | 130.1 | -3.9 | 130.3 | 261.9 | OK |
| 221.5 | 16.2 | -0.6 | 7.2 | 287.9 | 21.1 | -0.8 | 9.3 | 1.2 | 13.8 | OK | 13.1 | 6.7 | 17.4 | 261.9 | OK |
| 0.0 | -48.5 | -2.5 | 0.4 | 0.0 | -63.1 | -3.2 | 0.6 | 0.0 | 13.8 | OK | 44.1 | 0.4 | 44.2 | 261.9 | OK |
| 0.9 | 0.1 | -5.0 | 2.7 | 1.2 | 0.1 | -6.5 | 3.5 | 0.0 | 13.8 | OK | 47.8 | 2.5 | 48.0 | 261.9 | OK |
| 10.4 | 0.8 | -7.1 | 1.1 | 13.5 | 1.0 | -9.2 | 1.4 | 0.1 | 13.8 | OK | 67.5 | 1.0 | 67.5 | 261.9 | OK |
| 12.6 | 0.9 | -4.2 | 1.8 | 16.4 | 1.2 | -5.4 | 2.4 | 0.1 | 13.8 | OK | 40.1 | 1.7 | 40.2 | 261.9 | OK |
| 0.0 | -59.5 | -1.8 | 2.3 | 0.0 | -77.4 | -2.3 | 3.0 | 0.0 | 13.8 | OK | 42.2 | 2.1 | 42.3 | 261.9 | OK |
| 0.0 | -129.1 | -0.4 | 0.2 | 0.0 | -167.8 | -0.5 | 0.3 | 0.0 | 13.8 | OK | 58.7 | 0.2 | 58.7 | 261.9 | OK |
| 1.6 | 0.1 | -6.2 | 2.6 | 2.0 | 0.1 | -8.0 | 3.4 | 0.0 | 13.8 | OK | 58.9 | 2.4 | 59.1 | 261.9 | OK |
| 0.0 | -15.6 | -4.8 | 0.3 | 0.0 | -20.3 | -6.3 | 0.4 | 0.0 | 13.8 | OK | 52.8 | 0.3 | 52.8 | 261.9 | OK |
| 40.5 | 3.0 | -2.5 | 2.7 | 52.6 | 3.9 | -3.2 | 3.5 | 0.2 | 13.8 | OK | 24.8 | 2.5 | 25.1 | 261.9 | OK |
| 0.0 | -219.5 | -0.4 | 1.1 | 0.0 | -285.4 | -0.5 | 1.5 | 0.0 | 13.8 | OK | 97.4 | 1.1 | 97.4 | 261.9 | OK |
| 158.6 | 11.6 | -2.6 | 3.0 | 206.1 | 15.1 | -3.4 | 3.9 | 0.8 | 13.8 | OK | 29.8 | 2.8 | 30.2 | 261.9 | OK |
| 18.7 | 1.4 | -8.2 | 2.7 | 24.3 | 1.8 | -10.6 | 3.5 | 0.1 | 13.8 | OK | 78.5 | 2.5 | 78.6 | 261.9 | OK |
| 0.0 | -26.4 | -3.9 | 2.0 | 0.0 | -34.4 | -5.1 | 2.6 | 0.0 | 13.8 | OK | 48.8 | 1.9 | 49.0 | 261.9 | OK |
| 0.0 | -104.9 | -2.3 | 1.8 | 0.0 | -136.4 | -3.0 | 2.4 | 0.0 | 13.8 | OK | 66.6 | 1.7 | 66.6 | 261.9 | OK |
| 0.0 | -299.5 | -1.0 | 3.6 | 0.0 | -389.3 | -1.3 | 4.7 | 0.0 | 13.8 | OK | 137.1 | 3.3 | 137.2 | 261.9 | OK |
| 0.0 | -70.9 | -0.1 | 1.0 | 0.0 | -92.2 | -0.1 | 1.3 | 0.0 | 13.8 | OK | 30.7 | 0.9 | 30.8 | 261.9 | OK |
| 0.0 | -213.8 | -2.1 | 1.3 | 0.0 | -277.9 | -2.8 | 1.7 | 0.0 | 13.8 | OK | 111.3 | 1.2 | 111.3 | 261.9 | OK |
| 0.0 | -94.3 | -3.1 | 1.4 | 0.0 | -122.6 | -4.0 | 1.8 | 0.0 | 13.8 | OK | 69.4 | 1.3 | 69.4 | 261.9 | OK |
| 0.0 | -170.7 | -2.0 | 0.7 | 0.0 | -222.0 | -2.6 | 0.9 | 0.0 | 13.8 | OK | 92.0 | 0.6 | 92.0 | 261.9 | OK |
| 0.0 | -88.2 | -3.4 | 1.6 | 0.0 | -114.6 | -4.4 | 2.1 | 0.0 | 13.8 | OK | 69.9 | 1.5 | 70.0 | 261.9 | OK |
| 18.4 | 1.3 | -7.7 | 1.1 | 23.9 | 1.8 | -10.0 | 1.4 | 0.1 | 13.8 | OK | 73.8 | 1.0 | 73.9 | 261.9 | OK |
| 0.0 | -9.4 | -5.2 | -0.3 | 0.0 | -12.2 | -6.8 | -0.4 | 0.0 | 13.8 | OK | 53.6 | -0.3 | 53.6 | 261.9 | OK |
| 0.0 | -30.5 | -4.8 | 1.5 | 0.0 | -39.7 | -6.3 | 2.0 | 0.0 | 13.8 | OK | 59.0 | 1.4 | 59.0 | 261.9 | OK |
| 0.0 | -10.5 | -6.2 | 1.5 | 0.0 | -13.7 | -8.1 | 1.9 | 0.0 | 13.8 | OK | 63.6 | 1.4 | 63.7 | 261.9 | OK |
| 0.0 | -27.2 | -4.8 | 1.5 | 0.0 | -35.4 | -6.2 | 2.0 | 0.0 | 13.8 | OK | 57.1 | 1.4 | 57.1 | 261.9 | OK |
| 0.0 | -185.7 | -0.7 | 1.7 | 0.0 | -241.4 | -0.9 | 2.1 | 0.0 | 13.8 | OK | 85.7 | 1.5 | 85.7 | 261.9 | OK |
| 0.0 | -70.6 | -3.7 | 0.4 | 0.0 | -91.8 | -4.8 | 0.6 | 0.0 | 13.8 | OK | 65.4 | 0.4 | 65.4 | 261.9 | OK |
| 29.1 | 2.1 | -7.2 | -1.9 | 37.9 | 2.8 | -9.3 | -2.4 | 0.2 | 13.8 | OK | 69.3 | -1.7 | 69.3 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|-------|------|-------|--------|-------|-------|-----|------|----|-------|------|-------|-------|----|
| 0.0 | -2.4 | 4.8 | -6.7 | 0.0 | -3.2 | 6.3 | -8.7 | 0.0 | 13.8 | OK | 47.0 | -6.2 | 48.2 | 261.9 | OK |
| 3.2 | 0.2 | 13.1 | -3.9 | 4.1 | 0.3 | 17.0 | -5.1 | 0.0 | 13.8 | OK | 124.4 | -3.6 | 124.6 | 261.9 | OK |
| 0.0 | -18.6 | 10.1 | -3.2 | 0.0 | -24.2 | 13.2 | -4.1 | 0.0 | 13.8 | OK | 104.5 | -2.9 | 104.6 | 261.9 | OK |
| 0.6 | 0.0 | -1.8 | -5.0 | 0.8 | 0.1 | -2.3 | -6.5 | 0.0 | 13.8 | OK | 16.8 | -4.6 | 18.6 | 261.9 | OK |
| 4.8 | 0.4 | -5.3 | -0.5 | 6.3 | 0.5 | -6.8 | -0.7 | 0.0 | 13.8 | OK | 50.2 | -0.5 | 50.2 | 261.9 | OK |
| 29.5 | 2.2 | -1.6 | -8.2 | 38.4 | 2.8 | -2.0 | -10.7 | 0.2 | 13.8 | OK | 15.8 | -7.6 | 20.6 | 261.9 | OK |
| 9.4 | 0.7 | 6.9 | -8.4 | 12.2 | 0.9 | 9.0 | -11.0 | 0.0 | 13.8 | OK | 66.2 | -7.8 | 67.6 | 261.9 | OK |
| 8.2 | 0.6 | 7.4 | 8.3 | 10.6 | 0.8 | 9.6 | 10.8 | 0.0 | 13.8 | OK | 70.9 | 7.7 | 72.1 | 261.9 | OK |
| 0.0 | -0.2 | -1.7 | 6.3 | 0.0 | -0.3 | -2.2 | 8.2 | 0.0 | 13.8 | OK | 16.5 | 5.8 | 19.4 | 261.9 | OK |
| 10.2 | 0.8 | -6.1 | 1.6 | 13.3 | 1.0 | -7.9 | 2.0 | 0.1 | 13.8 | OK | 58.5 | 1.5 | 58.6 | 261.9 | OK |
| 34.3 | 2.5 | -8.5 | 2.7 | 44.6 | 3.3 | -11.1 | 3.5 | 0.2 | 13.8 | OK | 82.1 | 2.5 | 82.2 | 261.9 | OK |
| 0.6 | 0.0 | 13.4 | 2.9 | 0.8 | 0.1 | 17.4 | 3.7 | 0.0 | 13.8 | OK | 127.5 | 2.7 | 127.6 | 261.9 | OK |
| 0.0 | -18.7 | 10.4 | 2.8 | 0.0 | -24.3 | 13.5 | 3.7 | 0.0 | 13.8 | OK | 106.6 | 2.6 | 106.7 | 261.9 | OK |
| 27.6 | 2.0 | -1.7 | 9.1 | 35.8 | 2.6 | -2.3 | 11.8 | 0.1 | 13.8 | OK | 17.4 | 8.4 | 22.7 | 261.9 | OK |
| 0.0 | -7.0 | 5.2 | 7.0 | 0.0 | -9.1 | 6.8 | 9.1 | 0.0 | 13.8 | OK | 52.8 | 6.5 | 54.0 | 261.9 | OK |
| 0.0 | -53.9 | -3.0 | -0.7 | 0.0 | -70.0 | -3.8 | -0.9 | 0.0 | 13.8 | OK | 51.1 | -0.6 | 51.2 | 261.9 | OK |
| 23.1 | 1.7 | -7.0 | -1.6 | 30.1 | 2.2 | -9.2 | -2.0 | 0.1 | 13.8 | OK | 67.8 | -1.4 | 67.8 | 261.9 | OK |
| 0.0 | -8.9 | -5.2 | -0.5 | 0.0 | -11.6 | -6.8 | -0.7 | 0.0 | 13.8 | OK | 53.2 | -0.5 | 53.2 | 261.9 | OK |
| 0.0 | -37.1 | -0.3 | 0.1 | 0.0 | -48.2 | -0.3 | 0.1 | 0.0 | 13.8 | OK | 18.2 | 0.1 | 18.2 | 261.9 | OK |
| 0.0 | -34.0 | -2.0 | -1.3 | 0.0 | -44.2 | -2.6 | -1.6 | 0.0 | 13.8 | OK | 33.4 | -1.2 | 33.4 | 261.9 | OK |
| 7.7 | 0.6 | -0.9 | -3.8 | 10.0 | 0.7 | -1.1 | -5.0 | 0.0 | 13.8 | OK | 8.4 | -3.5 | 10.4 | 261.9 | OK |
| 28.7 | 2.1 | -9.0 | -1.8 | 37.3 | 2.7 | -11.7 | -2.4 | 0.1 | 13.8 | OK | 86.5 | -1.7 | 86.5 | 261.9 | OK |
| 0.0 | -8.6 | -5.5 | -1.6 | 0.0 | -11.2 | -7.1 | -2.1 | 0.0 | 13.8 | OK | 55.6 | -1.5 | 55.6 | 261.9 | OK |
| 7.6 | 0.6 | -6.5 | -2.5 | 9.9 | 0.7 | -8.5 | -3.3 | 0.0 | 13.8 | OK | 62.5 | -2.4 | 62.6 | 261.9 | OK |
| 0.0 | -80.0 | -2.9 | -1.5 | 0.0 | -104.1 | -3.7 | -2.0 | 0.0 | 13.8 | OK | 61.3 | -1.4 | 61.3 | 261.9 | OK |
| 0.0 | -54.5 | -2.2 | -1.7 | 0.0 | -70.8 | -2.9 | -2.2 | 0.0 | 13.8 | OK | 44.2 | -1.6 | 44.3 | 261.9 | OK |
| 0.0 | -14.4 | -4.4 | -1.8 | 0.0 | -18.7 | -5.7 | -2.4 | 0.0 | 13.8 | OK | 47.7 | -1.7 | 47.8 | 261.9 | OK |
| 0.0 | -79.6 | -0.8 | -0.6 | 0.0 | -103.4 | -1.1 | -0.7 | 0.0 | 13.8 | OK | 41.7 | -0.5 | 41.7 | 261.9 | OK |
| 0.0 | -21.8 | -4.0 | -1.2 | 0.0 | -28.3 | -5.3 | -1.6 | 0.0 | 13.8 | OK | 47.7 | -1.1 | 47.8 | 261.9 | OK |
| 27.4 | 2.0 | -7.1 | -3.6 | 35.6 | 2.6 | -9.2 | -4.7 | 0.1 | 13.8 | OK | 68.2 | -3.3 | 68.5 | 261.9 | OK |
| 0.0 | -24.3 | -2.1 | -1.6 | 0.0 | -31.6 | -2.7 | -2.1 | 0.0 | 13.8 | OK | 30.0 | -1.5 | 30.1 | 261.9 | OK |
| 74.7 | 5.5 | -0.3 | -2.5 | 97.1 | 7.1 | -0.4 | -3.3 | 0.4 | 13.8 | OK | 5.2 | -2.3 | 6.6 | 261.9 | OK |
| 175.7 | 12.9 | -0.3 | -2.1 | 228.3 | 16.7 | -0.4 | -2.8 | 0.9 | 13.8 | OK | 8.3 | -2.0 | 9.0 | 261.9 | OK |
| 0.0 | -85.1 | 0.2 | 1.6 | 0.0 | -110.6 | 0.3 | 2.0 | 0.0 | 13.8 | OK | 38.5 | 1.4 | 38.6 | 261.9 | OK |
| 0.0 | -36.7 | 1.1 | -2.9 | 0.0 | -47.7 | 1.4 | -3.8 | 0.0 | 13.8 | OK | 25.9 | -2.7 | 26.3 | 261.9 | OK |
| 37.1 | 2.7 | -10.3 | -1.0 | 48.2 | 3.5 | -13.4 | -1.3 | 0.2 | 13.8 | OK | 99.2 | -0.9 | 99.2 | 261.9 | OK |
| 0.0 | -22.7 | -3.1 | -0.5 | 0.0 | -29.5 | -4.1 | -0.6 | 0.0 | 13.8 | OK | 39.6 | -0.4 | 39.6 | 261.9 | OK |
| 36.4 | 2.7 | -5.4 | -1.3 | 47.4 | 3.5 | -7.1 | -1.7 | 0.2 | 13.8 | OK | 52.8 | -1.2 | 52.9 | 261.9 | OK |
| 4.1 | 0.3 | -6.7 | -0.6 | 5.3 | 0.4 | -8.7 | -0.8 | 0.0 | 13.8 | OK | 64.0 | -0.6 | 64.0 | 261.9 | OK |
| 0.0 | -48.1 | -0.2 | 0.0 | 0.0 | -62.5 | -0.2 | 0.0 | 0.0 | 13.8 | OK | 22.0 | 0.0 | 22.0 | 261.9 | OK |
| 0.0 | -3.2 | -5.2 | -3.1 | 0.0 | -4.2 | -6.7 | -4.1 | 0.0 | 13.8 | OK | 50.5 | -2.9 | 50.8 | 261.9 | OK |
| 38.4 | 2.8 | -3.1 | -2.7 | 49.9 | 3.7 | -4.1 | -3.5 | 0.2 | 13.8 | OK | 31.2 | -2.5 | 31.4 | 261.9 | OK |
| 66.8 | 4.9 | -2.0 | -1.0 | 86.9 | 6.4 | -2.6 | -1.3 | 0.3 | 13.8 | OK | 21.2 | -0.9 | 21.2 | 261.9 | OK |
| 29.7 | 2.2 | -3.7 | 11.1 | 38.6 | 2.8 | -4.9 | 14.5 | 0.2 | 13.8 | OK | 36.5 | 10.3 | 40.6 | 261.9 | OK |
| 7.8 | 0.6 | 7.7 | 11.6 | 10.2 | 0.7 | 10.1 | 15.0 | 0.0 | 13.8 | OK | 74.0 | 10.7 | 76.3 | 261.9 | OK |
| 0.0 | -9.3 | 4.9 | 8.6 | 0.0 | -12.1 | 6.4 | 11.2 | 0.0 | 13.8 | OK | 51.0 | 8.0 | 52.9 | 261.9 | OK |
| 0.0 | -0.8 | 15.8 | 4.7 | 0.0 | -1.1 | 20.5 | 6.1 | 0.0 | 13.8 | OK | 150.7 | 4.3 | 150.9 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|--------|-------|-------|-------|--------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 13.2 | 1.0 | -7.8 | 0.9 | 17.2 | 1.3 | -10.1 | 1.1 | 0.1 | 13.8 | OK | 74.4 | 0.8 | 74.4 | 261.9 | OK |
| 35.5 | 2.6 | -10.1 | 2.3 | 46.1 | 3.4 | -13.2 | 3.0 | 0.2 | 13.8 | OK | 97.7 | 2.1 | 97.8 | 261.9 | OK |
| 0.0 | -29.1 | 11.5 | 4.0 | 0.0 | -37.8 | 15.0 | 5.1 | 0.0 | 13.8 | OK | 122.0 | 3.7 | 122.1 | 261.9 | OK |
| 6.1 | 0.4 | -3.2 | 7.1 | 7.9 | 0.6 | -4.2 | 9.3 | 0.0 | 13.8 | OK | 31.1 | 6.6 | 33.1 | 261.9 | OK |
| 0.0 | -8.3 | 5.7 | -8.5 | 0.0 | -10.8 | 7.4 | -11.0 | 0.0 | 13.8 | OK | 57.8 | -7.8 | 59.4 | 261.9 | OK |
| 20.0 | 1.5 | -7.9 | -1.2 | 25.9 | 1.9 | -10.3 | -1.5 | 0.1 | 13.8 | OK | 75.7 | -1.1 | 75.7 | 261.9 | OK |
| 4.7 | 0.3 | 8.0 | -11.8 | 6.1 | 0.4 | 10.4 | -15.4 | 0.0 | 13.8 | OK | 76.2 | -10.9 | 78.5 | 261.9 | OK |
| 0.0 | -30.4 | 12.0 | -3.4 | 0.0 | -39.6 | 15.5 | -4.4 | 0.0 | 13.8 | OK | 126.8 | -3.1 | 126.9 | 261.9 | OK |
| 5.0 | 0.4 | -3.0 | -7.6 | 6.6 | 0.5 | -3.9 | -9.8 | 0.0 | 13.8 | OK | 28.4 | -7.0 | 30.9 | 261.9 | OK |
| 30.3 | 2.2 | -3.7 | -11.6 | 39.4 | 2.9 | -4.8 | -15.1 | 0.2 | 13.8 | OK | 35.9 | -10.7 | 40.4 | 261.9 | OK |
| 34.4 | 2.5 | -10.2 | -2.6 | 44.7 | 3.3 | -13.2 | -3.4 | 0.2 | 13.8 | OK | 97.8 | -2.4 | 97.8 | 261.9 | OK |
| 0.0 | -0.2 | 15.9 | -4.7 | 0.0 | -0.2 | 20.7 | -6.2 | 0.0 | 13.8 | OK | 151.8 | -4.4 | 152.0 | 261.9 | OK |
| 144.2 | 10.6 | -0.5 | 1.4 | 187.5 | 13.7 | -0.6 | 1.8 | 0.8 | 13.8 | OK | 9.3 | 1.3 | 9.5 | 261.9 | OK |
| 0.0 | -7.4 | -1.0 | 1.0 | 0.0 | -9.6 | -1.3 | 1.4 | 0.0 | 13.8 | OK | 12.8 | 1.0 | 12.9 | 261.9 | OK |
| 40.4 | 3.0 | -4.5 | 3.3 | 52.5 | 3.8 | -5.9 | 4.3 | 0.2 | 13.8 | OK | 44.4 | 3.0 | 44.7 | 261.9 | OK |
| 33.6 | 2.5 | -7.5 | 1.6 | 43.7 | 3.2 | -9.7 | 2.1 | 0.2 | 13.8 | OK | 72.2 | 1.5 | 72.3 | 261.9 | OK |
| 58.9 | 4.3 | -2.8 | 1.0 | 76.6 | 5.6 | -3.6 | 1.2 | 0.3 | 13.8 | OK | 28.4 | 0.9 | 28.4 | 261.9 | OK |
| 13.9 | 1.0 | 1.2 | 1.2 | 18.1 | 1.3 | 1.6 | 1.6 | 0.1 | 13.8 | OK | 11.9 | 1.1 | 12.0 | 261.9 | OK |
| 0.0 | -45.4 | 1.4 | -2.0 | 0.0 | -59.0 | 1.8 | -2.6 | 0.0 | 13.8 | OK | 32.7 | -1.8 | 32.8 | 261.9 | OK |
| 6.6 | 0.5 | -7.7 | 4.1 | 8.6 | 0.6 | -10.0 | 5.3 | 0.0 | 13.8 | OK | 73.2 | 3.8 | 73.5 | 261.9 | OK |
| 0.0 | -5.3 | -4.6 | 1.0 | 0.0 | -6.9 | -6.0 | 1.2 | 0.0 | 13.8 | OK | 46.3 | 0.9 | 46.3 | 261.9 | OK |
| 68.8 | 5.0 | -1.1 | 2.6 | 89.4 | 6.6 | -1.5 | 3.3 | 0.4 | 13.8 | OK | 12.9 | 2.4 | 13.6 | 261.9 | OK |
| 0.0 | -31.6 | 1.8 | -7.8 | 0.0 | -41.1 | 2.3 | -10.1 | 0.0 | 13.8 | OK | 30.3 | -7.2 | 32.8 | 261.9 | OK |
| 134.2 | 9.8 | 0.3 | -0.9 | 174.5 | 12.8 | 0.4 | -1.1 | 0.7 | 13.8 | OK | 6.8 | -0.8 | 7.0 | 261.9 | OK |
| 33.6 | 2.5 | -9.7 | 4.0 | 43.7 | 3.2 | -12.6 | 5.2 | 0.2 | 13.8 | OK | 93.3 | 3.7 | 93.5 | 261.9 | OK |
| 0.0 | -9.3 | -3.3 | 2.2 | 0.0 | -12.1 | -4.3 | 2.8 | 0.0 | 13.8 | OK | 35.8 | 2.0 | 36.0 | 261.9 | OK |
| 31.9 | 2.3 | -2.8 | 1.0 | 41.4 | 3.0 | -3.7 | 1.3 | 0.2 | 13.8 | OK | 28.0 | 0.9 | 28.0 | 261.9 | OK |
| 0.0 | -276.0 | 0.9 | -6.4 | 0.0 | -358.8 | 1.1 | -8.4 | 0.0 | 13.8 | OK | 125.9 | -6.0 | 126.4 | 261.9 | OK |
| 100.0 | 7.3 | -1.8 | 5.6 | 129.9 | 9.5 | -2.3 | 7.2 | 0.5 | 13.8 | OK | 20.3 | 5.2 | 22.2 | 261.9 | OK |
| 0.0 | -82.4 | 1.1 | 1.9 | 0.0 | -107.2 | 1.4 | 2.5 | 0.0 | 13.8 | OK | 45.7 | 1.8 | 45.8 | 261.9 | OK |
| 0.0 | -28.8 | -2.0 | 2.3 | 0.0 | -37.4 | -2.7 | 3.0 | 0.0 | 13.8 | OK | 31.8 | 2.1 | 32.0 | 261.9 | OK |
| 0.0 | -65.9 | -0.3 | -0.1 | 0.0 | -85.6 | -0.4 | -0.2 | 0.0 | 13.8 | OK | 31.0 | -0.1 | 31.0 | 261.9 | OK |
| 14.4 | 1.1 | -3.6 | 2.9 | 18.8 | 1.4 | -4.7 | 3.8 | 0.1 | 13.8 | OK | 34.6 | 2.7 | 34.9 | 261.9 | OK |
| 27.5 | 2.0 | -9.5 | 0.6 | 35.8 | 2.6 | -12.3 | 0.8 | 0.1 | 13.8 | OK | 91.0 | 0.6 | 91.0 | 261.9 | OK |
| 1.7 | 0.1 | -6.6 | 0.4 | 2.2 | 0.2 | -8.6 | 0.5 | 0.0 | 13.8 | OK | 63.0 | 0.4 | 63.0 | 261.9 | OK |
| 17.0 | 1.2 | -5.6 | 1.3 | 22.0 | 1.6 | -7.3 | 1.7 | 0.1 | 13.8 | OK | 53.9 | 1.2 | 54.0 | 261.9 | OK |
| 17.1 | 1.3 | -7.0 | 3.1 | 22.2 | 1.6 | -9.0 | 4.0 | 0.1 | 13.8 | OK | 66.8 | 2.8 | 66.9 | 261.9 | OK |
| 0.0 | -10.0 | -5.4 | 2.6 | 0.0 | -13.1 | -7.0 | 3.4 | 0.0 | 13.8 | OK | 55.4 | 2.4 | 55.5 | 261.9 | OK |
| 9.3 | 0.7 | -1.7 | 3.6 | 12.1 | 0.9 | -2.2 | 4.6 | 0.0 | 13.8 | OK | 16.2 | 3.3 | 17.2 | 261.9 | OK |
| 0.0 | -24.7 | -3.5 | 0.7 | 0.0 | -32.1 | -4.6 | 0.9 | 0.0 | 13.8 | OK | 43.9 | 0.6 | 43.9 | 261.9 | OK |
| 30.2 | 2.2 | -9.0 | -2.2 | 39.2 | 2.9 | -11.7 | -2.9 | 0.2 | 13.8 | OK | 86.9 | -2.0 | 86.9 | 261.9 | OK |
| 0.0 | -4.6 | 5.5 | -8.1 | 0.0 | -6.0 | 7.1 | -10.6 | 0.0 | 13.8 | OK | 54.2 | -7.5 | 55.7 | 261.9 | OK |
| 0.9 | 0.1 | 15.2 | -4.6 | 1.1 | 0.1 | 19.7 | -6.0 | 0.0 | 13.8 | OK | 144.3 | -4.3 | 144.5 | 261.9 | OK |
| 0.0 | -26.9 | 11.7 | -3.6 | 0.0 | -35.0 | 15.2 | -4.7 | 0.0 | 13.8 | OK | 123.0 | -3.3 | 123.2 | 261.9 | OK |
| 4.6 | 0.3 | -2.7 | -6.5 | 6.0 | 0.4 | -3.6 | -8.4 | 0.0 | 13.8 | OK | 26.2 | -6.0 | 28.2 | 261.9 | OK |
| 12.3 | 0.9 | -7.0 | -0.8 | 15.9 | 1.2 | -9.2 | -1.1 | 0.1 | 13.8 | OK | 67.4 | -0.7 | 67.5 | 261.9 | OK |
| 30.3 | 2.2 | -3.1 | -10.2 | 39.4 | 2.9 | -4.1 | -13.2 | 0.2 | 13.8 | OK | 30.7 | -9.4 | 34.8 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|-------|------|-------|-------|-------|-------|-------|-----|------|----|-------|-------|-------|-------|----|
| 6.5 | 0.5 | 7.6 | -10.9 | 8.5 | 0.6 | 9.9 | -14.1 | 0.0 | 13.8 | OK | 72.7 | -10.1 | 74.8 | 261.9 | OK |
| 6.3 | 0.5 | 8.0 | 10.9 | 8.1 | 0.6 | 10.4 | 14.2 | 0.0 | 13.8 | OK | 76.3 | 10.1 | 78.3 | 261.9 | OK |
| 5.1 | 0.4 | -2.8 | 6.9 | 6.6 | 0.5 | -3.6 | 9.0 | 0.0 | 13.8 | OK | 26.4 | 6.4 | 28.6 | 261.9 | OK |
| 15.3 | 1.1 | -7.2 | 1.2 | 19.9 | 1.5 | -9.4 | 1.5 | 0.1 | 13.8 | OK | 69.1 | 1.1 | 69.1 | 261.9 | OK |
| 33.2 | 2.4 | -9.6 | 2.8 | 43.2 | 3.2 | -12.5 | 3.6 | 0.2 | 13.8 | OK | 92.3 | 2.6 | 92.4 | 261.9 | OK |
| 0.0 | -1.4 | 15.3 | 4.2 | 0.0 | -1.8 | 19.9 | 5.5 | 0.0 | 13.8 | OK | 146.3 | 3.9 | 146.5 | 261.9 | OK |
| 0.0 | -26.4 | 11.6 | 3.6 | 0.0 | -34.4 | 15.1 | 4.7 | 0.0 | 13.8 | OK | 122.1 | 3.4 | 122.3 | 261.9 | OK |
| 27.6 | 2.0 | -3.2 | 10.8 | 35.9 | 2.6 | -4.1 | 14.0 | 0.1 | 13.8 | OK | 31.2 | 10.0 | 35.7 | 261.9 | OK |
| 0.0 | -8.0 | 5.4 | 8.4 | 0.0 | -10.5 | 7.0 | 10.9 | 0.0 | 13.8 | OK | 55.0 | 7.8 | 56.6 | 261.9 | OK |
| 4.3 | 0.3 | -2.5 | -0.6 | 5.6 | 0.4 | -3.3 | -0.8 | 0.0 | 13.8 | OK | 24.4 | -0.5 | 24.4 | 261.9 | OK |
| 29.0 | 2.1 | -8.0 | -1.5 | 37.7 | 2.8 | -10.4 | -2.0 | 0.2 | 13.8 | OK | 76.9 | -1.4 | 76.9 | 261.9 | OK |
| 0.6 | 0.0 | -5.3 | -0.5 | 0.8 | 0.1 | -6.9 | -0.6 | 0.0 | 13.8 | OK | 50.6 | -0.5 | 50.6 | 261.9 | OK |
| 0.0 | -22.6 | -0.2 | 0.8 | 0.0 | -29.4 | -0.2 | 1.1 | 0.0 | 13.8 | OK | 11.2 | 0.8 | 11.2 | 261.9 | OK |
| 266.4 | 19.5 | -1.5 | -2.2 | 346.4 | 25.4 | -2.0 | -2.8 | 1.4 | 13.8 | OK | 23.1 | -2.0 | 23.4 | 261.9 | OK |
| 337.7 | 24.8 | -0.3 | -4.1 | 439.0 | 32.2 | -0.3 | -5.3 | 1.8 | 13.8 | OK | 12.9 | -3.8 | 14.5 | 261.9 | OK |
| 26.6 | 1.9 | -9.7 | -3.7 | 34.6 | 2.5 | -12.6 | -4.9 | 0.1 | 13.8 | OK | 93.0 | -3.5 | 93.2 | 261.9 | OK |
| 32.9 | 2.4 | -5.5 | -3.4 | 42.8 | 3.1 | -7.1 | -4.5 | 0.2 | 13.8 | OK | 53.2 | -3.2 | 53.5 | 261.9 | OK |
| 11.9 | 0.9 | -7.2 | -3.5 | 15.5 | 1.1 | -9.4 | -4.6 | 0.1 | 13.8 | OK | 69.4 | -3.3 | 69.6 | 261.9 | OK |
| 129.8 | 9.5 | -2.4 | -3.2 | 168.7 | 12.4 | -3.1 | -4.2 | 0.7 | 13.8 | OK | 26.5 | -3.0 | 27.0 | 261.9 | OK |
| 22.7 | 1.7 | -1.5 | -1.8 | 29.5 | 2.2 | -1.9 | -2.3 | 0.1 | 13.8 | OK | 14.6 | -1.6 | 14.9 | 261.9 | OK |
| 4.1 | 0.3 | -4.2 | -2.4 | 5.4 | 0.4 | -5.4 | -3.1 | 0.0 | 13.8 | OK | 39.7 | -2.2 | 39.8 | 261.9 | OK |
| 10.8 | 0.8 | -0.3 | 0.2 | 14.0 | 1.0 | -0.4 | 0.3 | 0.1 | 13.8 | OK | 3.1 | 0.2 | 3.1 | 261.9 | OK |
| 68.2 | 5.0 | -4.3 | -2.0 | 88.7 | 6.5 | -5.5 | -2.7 | 0.4 | 13.8 | OK | 42.7 | -1.9 | 42.8 | 261.9 | OK |
| 70.4 | 5.2 | 0.1 | -3.7 | 91.5 | 6.7 | 0.1 | -4.8 | 0.4 | 13.8 | OK | 3.2 | -3.5 | 6.8 | 261.9 | OK |
| 27.5 | 2.0 | 6.4 | 4.5 | 35.8 | 2.6 | 8.3 | 5.9 | 0.1 | 13.8 | OK | 61.6 | 4.2 | 62.0 | 261.9 | OK |
| 47.4 | 3.5 | -2.0 | -11.3 | 61.6 | 4.5 | -2.6 | -14.7 | 0.2 | 13.8 | OK | 20.2 | -10.5 | 27.2 | 261.9 | OK |
| 220.9 | 16.2 | 3.3 | 17.5 | 287.1 | 21.1 | 4.3 | 22.8 | 1.1 | 13.8 | OK | 38.3 | 16.2 | 47.5 | 261.9 | OK |
| 89.8 | 6.6 | -9.4 | -7.2 | 116.8 | 8.6 | -12.3 | -9.4 | 0.5 | 13.8 | OK | 92.7 | -6.7 | 93.4 | 261.9 | OK |
| 238.9 | 17.5 | -0.5 | 52.2 | 310.5 | 22.8 | -0.7 | 67.8 | 1.2 | 13.8 | OK | 12.5 | 48.3 | 84.6 | 261.9 | OK |
| 315.1 | 23.1 | 7.8 | 21.0 | 409.6 | 30.0 | 10.1 | 27.3 | 1.6 | 13.8 | OK | 83.7 | 19.5 | 90.2 | 261.9 | OK |
| 153.1 | 11.2 | 7.2 | 6.1 | 199.0 | 14.6 | 9.4 | 8.0 | 0.8 | 13.8 | OK | 73.8 | 5.7 | 74.5 | 261.9 | OK |
| 321.0 | 23.5 | 6.3 | 5.5 | 417.3 | 30.6 | 8.2 | 7.2 | 1.7 | 13.8 | OK | 70.3 | 5.1 | 70.9 | 261.9 | OK |
| 66.2 | 4.9 | 2.4 | 4.2 | 86.1 | 6.3 | 3.1 | 5.4 | 0.3 | 13.8 | OK | 25.0 | 3.9 | 25.9 | 261.9 | OK |
| 100.2 | 7.3 | -4.5 | -3.6 | 130.2 | 9.5 | -5.8 | -4.7 | 0.5 | 13.8 | OK | 46.0 | -3.3 | 46.3 | 261.9 | OK |
| 26.0 | 1.9 | 3.7 | -7.5 | 33.8 | 2.5 | 4.8 | -9.8 | 0.1 | 13.8 | OK | 36.2 | -7.0 | 38.2 | 261.9 | OK |
| 181.6 | 13.3 | 7.4 | 14.4 | 236.1 | 17.3 | 9.6 | 18.7 | 0.9 | 13.8 | OK | 76.1 | 13.3 | 79.5 | 261.9 | OK |
| 422.2 | 31.0 | 7.4 | 25.3 | 548.9 | 40.2 | 9.6 | 32.8 | 2.2 | 13.8 | OK | 83.2 | 23.4 | 92.5 | 261.9 | OK |
| 497.3 | 36.5 | -4.3 | 12.5 | 646.5 | 47.4 | -5.6 | 16.2 | 2.6 | 13.8 | OK | 56.4 | 11.6 | 59.9 | 261.9 | OK |
| 30.8 | 2.3 | 5.4 | -1.6 | 40.0 | 2.9 | 7.1 | -2.0 | 0.2 | 13.8 | OK | 52.7 | -1.5 | 52.7 | 261.9 | OK |
| 463.4 | 34.0 | 5.9 | -19.0 | 602.5 | 44.2 | 7.7 | -24.7 | 2.4 | 13.8 | OK | 70.7 | -17.6 | 77.1 | 261.9 | OK |
| 188.9 | 13.8 | 2.5 | -17.6 | 245.6 | 18.0 | 3.3 | -22.8 | 1.0 | 13.8 | OK | 30.1 | -16.3 | 41.2 | 261.9 | OK |
| 39.7 | 2.9 | -3.4 | 6.8 | 51.6 | 3.8 | -4.4 | 8.8 | 0.2 | 13.8 | OK | 33.6 | 6.3 | 35.3 | 261.9 | OK |
| 464.7 | 34.1 | 5.2 | -19.3 | 604.1 | 44.3 | 6.8 | -25.1 | 2.4 | 13.8 | OK | 64.5 | -17.9 | 71.6 | 261.9 | OK |
| 76.2 | 5.6 | 0.6 | -1.1 | 99.0 | 7.3 | 0.7 | -1.5 | 0.4 | 13.8 | OK | 7.7 | -1.0 | 7.9 | 261.9 | OK |
| 197.1 | 14.4 | 4.4 | -16.3 | 256.2 | 18.8 | 5.8 | -21.2 | 1.0 | 13.8 | OK | 48.4 | -15.1 | 55.1 | 261.9 | OK |
| 86.3 | 6.3 | -2.2 | 1.1 | 112.2 | 8.2 | -2.9 | 1.5 | 0.4 | 13.8 | OK | 24.1 | 1.1 | 24.2 | 261.9 | OK |
| 27.2 | 2.0 | 1.3 | 7.5 | 35.3 | 2.6 | 1.7 | 9.8 | 0.1 | 13.8 | OK | 13.0 | 7.0 | 17.7 | 261.9 | OK |

| | | | | | | | | | | | | | | | |
|-------|------|------|-------|-------|------|------|-------|-----|------|----|------|-------|------|-------|----|
| 180.9 | 13.3 | 5.3 | -3.4 | 235.2 | 17.2 | 6.9 | -4.4 | 0.9 | 13.8 | OK | 56.0 | -3.2 | 56.2 | 261.9 | OK |
| 404.5 | 29.7 | 5.0 | -4.2 | 525.9 | 38.6 | 6.5 | -5.4 | 2.1 | 13.8 | OK | 60.0 | -3.9 | 60.3 | 261.9 | OK |
| 100.7 | 7.4 | -4.1 | -1.0 | 131.0 | 9.6 | -5.3 | -1.3 | 0.5 | 13.8 | OK | 42.1 | -0.9 | 42.2 | 261.9 | OK |
| 380.4 | 27.9 | -4.1 | -16.1 | 494.6 | 36.3 | -5.4 | -20.9 | 2.0 | 13.8 | OK | 51.2 | -14.9 | 57.3 | 261.9 | OK |
| 188.5 | 13.8 | 1.5 | -44.9 | 245.1 | 18.0 | 1.9 | -58.4 | 1.0 | 13.8 | OK | 20.1 | -41.6 | 74.8 | 261.9 | OK |
| 57.9 | 4.2 | -6.8 | -1.1 | 75.3 | 5.5 | -8.8 | -1.4 | 0.3 | 13.8 | OK | 66.3 | -1.0 | 66.3 | 261.9 | OK |
| 119.4 | 8.8 | 2.9 | 13.5 | 155.2 | 11.4 | 3.8 | 17.5 | 0.6 | 13.8 | OK | 31.4 | 12.5 | 38.1 | 261.9 | OK |
| 119.7 | 8.8 | 0.3 | 0.9 | 155.6 | 11.4 | 0.4 | 1.2 | 0.6 | 13.8 | OK | 6.6 | 0.8 | 6.7 | 261.9 | OK |
| 85.0 | 6.2 | 0.7 | 14.2 | 110.5 | 8.1 | 0.9 | 18.5 | 0.4 | 13.8 | OK | 9.1 | 13.2 | 24.5 | 261.9 | OK |
| 210.5 | 15.4 | 0.9 | -2.5 | 273.7 | 20.1 | 1.2 | -3.2 | 1.1 | 13.8 | OK | 15.3 | -2.3 | 15.8 | 261.9 | OK |
| 112.8 | 8.3 | 2.1 | 0.4 | 146.6 | 10.7 | 2.7 | 0.5 | 0.6 | 13.8 | OK | 23.6 | 0.3 | 23.6 | 261.9 | OK |
| 134.1 | 9.8 | -3.9 | 5.6 | 174.3 | 12.8 | -5.0 | 7.3 | 0.7 | 13.8 | OK | 41.0 | 5.2 | 42.0 | 261.9 | OK |
| 382.1 | 28.0 | -1.7 | -8.0 | 496.7 | 36.4 | -2.2 | -10.5 | 2.0 | 13.8 | OK | 27.9 | -7.5 | 30.8 | 261.9 | OK |
| 233.3 | 17.1 | 3.3 | -5.3 | 303.2 | 22.2 | 4.3 | -6.9 | 1.2 | 13.8 | OK | 38.4 | -4.9 | 39.4 | 261.9 | OK |
| 290.3 | 21.3 | -2.4 | -19.7 | 377.4 | 27.7 | -3.2 | -25.6 | 1.5 | 13.8 | OK | 32.4 | -18.2 | 45.2 | 261.9 | OK |
| 277.5 | 20.3 | -1.5 | -8.6 | 360.7 | 26.4 | -1.9 | -11.2 | 1.4 | 13.8 | OK | 22.8 | -8.0 | 26.7 | 261.9 | OK |
| 389.8 | 28.6 | 1.1 | 3.9 | 506.8 | 37.2 | 1.5 | 5.0 | 2.0 | 13.8 | OK | 22.9 | 3.6 | 23.8 | 261.9 | OK |
| 201.4 | 14.8 | 0.5 | 17.5 | 261.9 | 19.2 | 0.7 | 22.8 | 1.0 | 13.8 | OK | 11.2 | 16.2 | 30.3 | 261.9 | OK |
| 420.2 | 30.8 | 0.5 | -25.1 | 546.2 | 40.0 | 0.7 | -32.6 | 2.2 | 13.8 | OK | 18.0 | -23.3 | 44.1 | 261.9 | OK |

ALLEGATO 2
SOLLECITAZIONI NEL RIVESTIMENTO DEFINITIVO

Tabella 1: sollecitazioni nel rivestimento definitivo (N>0: compressione, M>0: tende le fibre in intradosso) – Camerone di manovra

| Calotta | | | | | | Arco rovescio | | | | | |
|--------------------------------|-------------------------|------------------------|---------------------------------|-------------------------|------------------------|--------------------------------|-------------------------|------------------------|---------------------------------|-------------------------|------------------------|
| Sollecitazioni caratteristiche | | | Sollecitazioni di calcolo (SLU) | | | Sollecitazioni caratteristiche | | | Sollecitazioni di calcolo (SLU) | | |
| N _k [kN] | M _k [kNm] | T _k [kN] | N _d [kN] | M _d [kNm] | T _d [kN] | N _k [kN] | M _k [kNm] | T _k [kN] | N _d [kN] | M _d [kNm] | T _d [kN] |
| 7037 | 171 | -375 | 9148 | 222 | -487 | 4 | 1 | 6 | 5 | 1 | 7 |
| 7432 | 360 | -81 | 9662 | 468 | -105 | 1 | 1 | 3 | 1 | 1 | 4 |
| 8465 | 340 | 14 | 11004 | 442 | 18 | -3 | -2 | 0 | -5 | -3 | 0 |
| 4724 | -69 | -11 | 6142 | -90 | -14 | -9 | 1 | 2 | -12 | 1 | 3 |
| 5267 | -66 | -159 | 6848 | -86 | -207 | 1 | -1 | -2 | 2 | -1 | -3 |
| 6809 | 113 | -459 | 8851 | 146 | -596 | -2 | -2 | 1 | -3 | -2 | 1 |
| 7912 | 395 | -93 | 10286 | 514 | -121 | 3 | -2 | 0 | 4 | -3 | 0 |
| 6611 | 182 | 184 | 8595 | 236 | 239 | 6 | -2 | -1 | 8 | -2 | -1 |
| 7891 | 407 | -13 | 10258 | 529 | -17 | 0 | -1 | -2 | 0 | -1 | -3 |
| 8122 | 368 | 209 | 10559 | 478 | 272 | 3 | -2 | 0 | 4 | -3 | 0 |
| 4474 | 58 | 8 | 5816 | 75 | 10 | 2 | -2 | 0 | 2 | -3 | 0 |
| 4969 | 69 | -31 | 6460 | 89 | -41 | 6 | -2 | 1 | 8 | -2 | 1 |
| 6332 | 94 | 111 | 8231 | 122 | 145 | 6 | -2 | 0 | 8 | -2 | 0 |
| 6976 | 99 | -38 | 9069 | 128 | -49 | 4 | -1 | 0 | 5 | -2 | 0 |
| 7661 | 197 | 149 | 9960 | 256 | 193 | 3 | -1 | 0 | 4 | -2 | 1 |
| 8594 | 336 | 163 | 11172 | 437 | 212 | -3 | -2 | 1 | -4 | -2 | 2 |
| 5773 | 87 | 103 | 7504 | 113 | 133 | 5 | -2 | 0 | 7 | -3 | 0 |
| 5366 | 42 | 24 | 6976 | 55 | 31 | 4 | -2 | -1 | 5 | -2 | -1 |
| 3257 | 71 | 32 | 4234 | 93 | 41 | 2 | -2 | 0 | 3 | -3 | 0 |
| 2918 | 81 | -31 | 3794 | 106 | -40 | 4 | -2 | -1 | 6 | -3 | -1 |
| 2892 | -51 | 38 | 3760 | -66 | 50 | 7 | -2 | -1 | 9 | -2 | -2 |
| 2924 | 8 | 71 | 3801 | 11 | 92 | 0 | -2 | 0 | 0 | -3 | 0 |
| 2872 | 7 | 20 | 3733 | 9 | 25 | -1 | -1 | 3 | -2 | -2 | 3 |
| 2562 | -84 | 6 | 3331 | -109 | 7 | -1 | -3 | 1 | -1 | -4 | 1 |
| 3203 | 113 | -64 | 4164 | 147 | -83 | -1 | -3 | 1 | -1 | -4 | 1 |
| 2034 | -53 | 47 | 2644 | -69 | 61 | -6 | -3 | -2 | -8 | -3 | -2 |
| 2455 | -95 | 18 | 3192 | -123 | 24 | -7 | -3 | -1 | -9 | -4 | -2 |
| 2943 | 81 | 115 | 3825 | 105 | 149 | -10 | 0 | -3 | -13 | -1 | -3 |
| 3499 | 88 | 34 | 4549 | 114 | 45 | 1 | -1 | 3 | 1 | -2 | 4 |
| 3005 | 58 | -96 | 3906 | 75 | -125 | -18 | -1 | -4 | -23 | -1 | -6 |
| 3758 | 56 | -62 | 4885 | 73 | -81 | 3 | 0 | 6 | 4 | -1 | 8 |
| 2366 | -47 | -107 | 3076 | -61 | -139 | -6 | 0 | 1 | -7 | 0 | 2 |
| 3727 | 83 | 16 | 4845 | 107 | 20 | -5 | -2 | 0 | -7 | -3 | 0 |
| 2464 | -9 | -34 | 3204 | -12 | -45 | -6 | 1 | 0 | -8 | 1 | 0 |
| 2331 | -1 | -20 | 3031 | -1 | -26 | 2 | -1 | -2 | 2 | -1 | -3 |
| 2520 | -92 | -7 | 3276 | -120 | -10 | -2 | -1 | 0 | -2 | -1 | 0 |
| 2190 | -58 | -40 | 2847 | -76 | -51 | 2 | -2 | 1 | 2 | -3 | 2 |
| 2106 | -94 | -13 | 2738 | -122 | -18 | 6 | -2 | -1 | 8 | -2 | -2 |
| 6017 | 105 | -12 | 7822 | 136 | -16 | -1 | -1 | -3 | -1 | -2 | -4 |
| 5340 | 92 | 0 | 6942 | 119 | 0 | 2 | -2 | 0 | 3 | -3 | 1 |

| | | | | | | | | | | | |
|------|------|------|-------|------|------|----|----|----|-----|----|----|
| 7631 | 285 | -14 | 9920 | 370 | -19 | 1 | -2 | 0 | 1 | -3 | 0 |
| 7495 | 267 | -8 | 9743 | 348 | -11 | 6 | -2 | 0 | 8 | -2 | 0 |
| 7122 | 301 | -72 | 9259 | 391 | -94 | 4 | -1 | 0 | 6 | -2 | 0 |
| 8050 | 263 | 24 | 10465 | 342 | 31 | 4 | -1 | 0 | 6 | -2 | 1 |
| 7626 | 324 | -82 | 9914 | 421 | -107 | 3 | -1 | 0 | 4 | -1 | 0 |
| 5468 | 92 | 47 | 7108 | 120 | 61 | -2 | -2 | 1 | -3 | -2 | 1 |
| 6594 | 181 | -208 | 8572 | 235 | -270 | 4 | -2 | 0 | 5 | -3 | 0 |
| 6174 | 180 | -141 | 8026 | 234 | -183 | 4 | -2 | 0 | 5 | -3 | 0 |
| 4944 | 85 | -107 | 6428 | 111 | -139 | 4 | -2 | 0 | 6 | -3 | 0 |
| 7856 | 288 | 27 | 10213 | 374 | 35 | 5 | -2 | 0 | 6 | -3 | 0 |
| 6757 | 261 | -20 | 8784 | 340 | -25 | 3 | -2 | -2 | 4 | -2 | -3 |
| 7659 | 346 | 39 | 9957 | 450 | 51 | -2 | -2 | 1 | -2 | -2 | 2 |
| 6713 | 185 | 91 | 8727 | 241 | 118 | -1 | -2 | 3 | -2 | -2 | 4 |
| 6975 | 158 | 402 | 9067 | 206 | 523 | -1 | -3 | 0 | -1 | -4 | 0 |
| 4843 | -57 | 120 | 6296 | -74 | 157 | -1 | -3 | 1 | -2 | -4 | 1 |
| 5735 | 29 | 262 | 7455 | 38 | 341 | -4 | -2 | -1 | -6 | -3 | -1 |
| 6916 | 132 | -456 | 8991 | 172 | -593 | -4 | -3 | -2 | -5 | -4 | -2 |
| 6653 | 334 | 72 | 8648 | 434 | 93 | -9 | -1 | -1 | -11 | -1 | -2 |
| 7364 | 364 | -61 | 9573 | 474 | -79 | 0 | -1 | 3 | 0 | -2 | 4 |
| 4474 | -98 | 89 | 5816 | -127 | 116 | -9 | -1 | -2 | -11 | -1 | -3 |
| 4429 | -71 | -2 | 5758 | -93 | -2 | -3 | -1 | 0 | -4 | -1 | -1 |
| 6785 | 25 | -492 | 8821 | 32 | -640 | -5 | 0 | -2 | -6 | 0 | -3 |
| 8095 | 389 | 54 | 10523 | 506 | 70 | -3 | -2 | 0 | -4 | -2 | 0 |
| 7835 | 185 | 249 | 10185 | 241 | 323 | -7 | 0 | -2 | -9 | 0 | -3 |
| 8203 | 367 | -91 | 10664 | 477 | -118 | -1 | -2 | 1 | -1 | -3 | 1 |
| 8490 | 360 | 185 | 11037 | 468 | 240 | 2 | -2 | -3 | 3 | -2 | -4 |
| 5017 | 51 | -111 | 6523 | 67 | -145 | -2 | -2 | -2 | -3 | -2 | -3 |
| 4920 | 77 | -73 | 6396 | 101 | -95 | 3 | -2 | 1 | 4 | -3 | 2 |
| 6781 | 71 | 20 | 8815 | 92 | 26 | 0 | -2 | -2 | 0 | -2 | -2 |
| 6443 | 66 | 9 | 8376 | 86 | 11 | 2 | -2 | -2 | 2 | -3 | -3 |
| 6623 | 183 | 162 | 8609 | 238 | 210 | 4 | -2 | 0 | 6 | -2 | 0 |
| 8071 | 326 | 68 | 10492 | 424 | 89 | -3 | -2 | -2 | -3 | -3 | -2 |
| 5558 | 42 | 106 | 7225 | 54 | 138 | 4 | -1 | 0 | 6 | -2 | 0 |
| 5945 | 36 | 25 | 7728 | 46 | 32 | 1 | -1 | 1 | 1 | -1 | 1 |
| 2859 | 62 | 95 | 3717 | 81 | 123 | 3 | -2 | 0 | 4 | -2 | 1 |
| 3431 | 103 | -26 | 4460 | 134 | -34 | -5 | -1 | -2 | -6 | -1 | -3 |
| 2847 | -70 | 34 | 3701 | -90 | 44 | -2 | -2 | 2 | -2 | -2 | 2 |
| 2898 | -15 | 43 | 3768 | -19 | 56 | -2 | -1 | 0 | -3 | -2 | 0 |
| 2946 | 0 | 64 | 3830 | -1 | 84 | -7 | -1 | 4 | -9 | -2 | 5 |
| 2658 | -107 | 20 | 3455 | -139 | 26 | 3 | -2 | 0 | 4 | -3 | 0 |
| 4217 | 127 | 34 | 5482 | 165 | 45 | 2 | -3 | 0 | 3 | -3 | 0 |
| 2912 | -60 | 15 | 3785 | -78 | 19 | 1 | -2 | 1 | 1 | -3 | 1 |
| 2357 | -101 | 18 | 3064 | -132 | 24 | -2 | -3 | 0 | -3 | -4 | 0 |
| 2957 | 85 | 86 | 3844 | 110 | 112 | -6 | -2 | -1 | -8 | -3 | -2 |
| 3821 | 62 | 54 | 4967 | 81 | 71 | -3 | -3 | -1 | -4 | -3 | -1 |
| 3959 | 40 | -95 | 5146 | 52 | -124 | 1 | -2 | 4 | 2 | -3 | 5 |
| 3737 | 46 | -64 | 4858 | 60 | -83 | -6 | -1 | 2 | -8 | -2 | 3 |

| | | | | | | | | | | | |
|------|------|------|-------|------|------|-----|----|----|-----|----|----|
| 2258 | -71 | -57 | 2935 | -92 | -74 | -2 | -3 | 0 | -2 | -4 | 0 |
| 3786 | 89 | -19 | 4922 | 116 | -25 | -9 | -1 | -2 | -12 | -2 | -2 |
| 3023 | -25 | -44 | 3930 | -33 | -58 | -8 | -1 | -1 | -10 | -1 | -2 |
| 2735 | -21 | -18 | 3556 | -28 | -23 | 8 | -6 | -2 | 11 | -8 | -2 |
| 2815 | -111 | -44 | 3659 | -144 | -57 | 9 | -5 | 0 | 12 | -7 | -1 |
| 2388 | -77 | -48 | 3104 | -101 | -62 | 36 | -5 | -4 | 47 | -6 | -5 |
| 2505 | -107 | 1 | 3256 | -139 | 2 | 16 | -3 | 0 | 20 | -4 | 0 |
| 5511 | 88 | -44 | 7164 | 115 | -57 | 12 | -5 | 0 | 15 | -6 | 0 |
| 4932 | 59 | -44 | 6412 | 77 | -57 | 42 | -5 | -4 | 55 | -7 | -5 |
| 7590 | 334 | -168 | 9867 | 434 | -218 | 5 | -6 | -1 | 6 | -8 | -2 |
| 8238 | 285 | -105 | 10709 | 370 | -136 | 18 | -5 | -3 | 24 | -6 | -3 |
| 7023 | 345 | -16 | 9129 | 449 | -21 | 13 | -5 | -1 | 18 | -6 | -1 |
| 7043 | 281 | 41 | 9156 | 365 | 54 | 49 | -3 | 0 | 64 | -4 | 0 |
| 7494 | 347 | -86 | 9743 | 451 | -112 | -3 | -3 | 0 | -4 | -3 | 0 |
| 5534 | 50 | -39 | 7194 | 65 | -50 | 0 | -2 | -1 | 0 | -3 | -1 |
| 6949 | 165 | -148 | 9033 | 215 | -192 | -10 | -3 | -2 | -13 | -4 | -2 |
| 6906 | 174 | -108 | 8978 | 227 | -140 | -7 | -2 | -1 | -9 | -3 | -1 |
| 5307 | 67 | -4 | 6899 | 87 | -5 | -4 | -3 | -1 | -5 | -3 | -2 |
| 7832 | 311 | -60 | 10182 | 405 | -77 | -6 | -2 | -1 | -8 | -3 | -1 |
| 7877 | 349 | 55 | 10240 | 453 | 71 | -9 | -4 | -1 | -11 | -5 | -1 |
| 7611 | 349 | -46 | 9895 | 453 | -60 | -11 | -4 | -2 | -15 | -5 | -2 |
| 7088 | 146 | 432 | 9214 | 190 | 562 | -8 | -3 | -1 | -11 | -4 | -1 |
| 7502 | 129 | 454 | 9753 | 168 | 590 | -4 | -2 | 1 | -6 | -3 | 1 |
| 5004 | -81 | 174 | 6506 | -106 | 227 | -1 | -2 | 0 | -1 | -3 | 0 |
| 4783 | -51 | 122 | 6218 | -66 | 158 | 0 | -2 | 0 | 0 | -3 | 0 |
| 6585 | 289 | 62 | 8561 | 375 | 81 | -6 | -3 | 2 | -8 | -4 | 3 |
| 4558 | -47 | -233 | 5925 | -61 | -303 | -6 | -2 | -1 | -8 | -3 | -1 |
| 6792 | 204 | -143 | 8830 | 265 | -186 | -4 | -3 | -1 | -5 | -4 | -1 |
| 5511 | -108 | -140 | 7165 | -140 | -182 | -12 | -5 | 4 | -15 | -6 | 5 |
| 6780 | 96 | -516 | 8814 | 125 | -670 | -11 | -4 | -1 | -14 | -6 | -1 |
| 4114 | -60 | 88 | 5348 | -78 | 114 | 0 | -3 | 0 | 0 | -4 | 0 |
| 8893 | 381 | 24 | 11560 | 495 | 32 | -3 | -3 | 4 | -4 | -4 | 5 |
| 6675 | 172 | 271 | 8677 | 223 | 352 | -7 | -5 | 1 | -9 | -6 | 1 |
| 8731 | 337 | 32 | 11351 | 438 | 41 | -13 | -5 | 0 | -17 | -7 | 0 |
| 6394 | 18 | 48 | 8312 | 23 | 63 | -12 | -5 | 1 | -16 | -7 | 1 |
| 6711 | 66 | 67 | 8724 | 86 | 87 | -12 | -4 | 2 | -15 | -5 | 3 |
| 6701 | 60 | -87 | 8711 | 78 | -113 | -6 | -4 | 0 | -8 | -5 | -1 |
| 8328 | 339 | -7 | 10827 | 441 | -9 | -12 | -5 | 3 | -15 | -7 | 3 |
| 7849 | 381 | -113 | 10204 | 496 | -147 | -4 | -5 | 1 | -5 | -6 | 1 |
| 7405 | 225 | 231 | 9626 | 292 | 300 | 16 | -3 | 3 | 20 | -4 | 3 |
| 5021 | 55 | -137 | 6527 | 72 | -178 | 24 | -4 | -2 | 31 | -5 | -2 |
| 5297 | 70 | -66 | 6886 | 91 | -85 | 55 | -4 | -4 | 72 | -6 | -5 |
| 6170 | 41 | 109 | 8021 | 53 | 142 | 16 | -5 | -1 | 21 | -6 | -1 |
| 2876 | -152 | -1 | 3739 | -197 | -1 | 27 | -3 | 1 | 35 | -4 | 2 |
| 2815 | -89 | 14 | 3660 | -115 | 18 | 36 | -3 | 2 | 47 | -4 | 3 |
| 4584 | 129 | 47 | 5959 | 167 | 62 | 19 | -5 | 0 | 25 | -6 | 0 |
| 4405 | 118 | 84 | 5727 | 153 | 110 | 20 | -5 | 0 | 26 | -6 | 0 |

| | | | | | | | | | | | |
|------|------|------|-------|------|------|-----|----|-----|-----|----|-----|
| 3575 | 96 | 56 | 4648 | 125 | 73 | 36 | -4 | -3 | 47 | -6 | -4 |
| 3064 | -80 | 81 | 3983 | -103 | 106 | 25 | -3 | 0 | 32 | -3 | 0 |
| 2666 | -137 | 37 | 3465 | -178 | 49 | 37 | -3 | -3 | 49 | -4 | -4 |
| 2929 | -30 | 90 | 3808 | -40 | 117 | 15 | -4 | 2 | 19 | -5 | 3 |
| 3081 | -21 | 61 | 4005 | -27 | 79 | 25 | -3 | 1 | 33 | -4 | 2 |
| 3034 | 56 | 54 | 3945 | 73 | 71 | 32 | -3 | -3 | 41 | -4 | -3 |
| 3408 | -47 | -88 | 4431 | -62 | -115 | 17 | -3 | 3 | 22 | -4 | 3 |
| 2400 | -101 | -62 | 3120 | -132 | -81 | 34 | -3 | -3 | 44 | -5 | -4 |
| 2777 | -139 | -35 | 3610 | -180 | -45 | 16 | -4 | 3 | 21 | -5 | 3 |
| 2851 | -121 | 5 | 3707 | -157 | 7 | 17 | -3 | 2 | 22 | -4 | 3 |
| 3940 | 66 | 11 | 5122 | 86 | 14 | 18 | -3 | 2 | 23 | -4 | 3 |
| 3599 | 24 | -103 | 4679 | 31 | -133 | 42 | -4 | -4 | 54 | -6 | -5 |
| 3696 | 25 | -99 | 4805 | 32 | -129 | 29 | -3 | -2 | 38 | -4 | -3 |
| 2727 | -138 | -28 | 3545 | -179 | -36 | 15 | -4 | 2 | 20 | -5 | 2 |
| 3077 | -47 | -33 | 4000 | -61 | -43 | 9 | -6 | -4 | 12 | -7 | -5 |
| 4345 | 129 | -79 | 5649 | 168 | -102 | 16 | -4 | 2 | 21 | -5 | 3 |
| 6683 | 174 | -264 | 8688 | 226 | -343 | 29 | -3 | -2 | 38 | -4 | -3 |
| 6464 | -32 | -202 | 8403 | -42 | -263 | 25 | -3 | -2 | 33 | -5 | -2 |
| 7737 | 342 | -213 | 10059 | 445 | -277 | 12 | -5 | -4 | 15 | -7 | -5 |
| 7778 | 384 | -86 | 10112 | 499 | -112 | 28 | -3 | -2 | 37 | -5 | -3 |
| 7204 | 322 | 112 | 9365 | 418 | 145 | 14 | -5 | -1 | 18 | -7 | -1 |
| 5423 | 34 | 83 | 7050 | 44 | 108 | 17 | -3 | 2 | 22 | -4 | 3 |
| 7995 | 306 | -204 | 10393 | 397 | -265 | -5 | -3 | -2 | -7 | -4 | -2 |
| 7920 | 421 | 66 | 10296 | 547 | 86 | -5 | -1 | -13 | -6 | -1 | -17 |
| 5879 | 48 | -146 | 7643 | 62 | -190 | -5 | -3 | 6 | -6 | -4 | 8 |
| 8341 | 455 | -156 | 10844 | 592 | -203 | -8 | 1 | 4 | -11 | 2 | 6 |
| 4773 | 18 | 254 | 6205 | 24 | 330 | 3 | -2 | -1 | 4 | -3 | -1 |
| 6997 | 161 | -53 | 9096 | 210 | -69 | 2 | -2 | -1 | 3 | -2 | -1 |
| 5267 | -39 | 647 | 6847 | -51 | 841 | -1 | -2 | 0 | -1 | -3 | 0 |
| 4793 | -26 | 218 | 6231 | -34 | 283 | 4 | -2 | 0 | 5 | -2 | 0 |
| 5664 | -26 | -197 | 7363 | -34 | -256 | 6 | -2 | -1 | 8 | -2 | -1 |
| 7783 | 306 | -14 | 10118 | 398 | -19 | 1 | -1 | -2 | 1 | -1 | -3 |
| 7694 | 180 | 461 | 10002 | 234 | 599 | 3 | -1 | 0 | 3 | -2 | 0 |
| 7087 | 103 | 310 | 9213 | 134 | 403 | 4 | -1 | -1 | 5 | -2 | -1 |
| 5016 | 11 | -100 | 6520 | 14 | -130 | 3 | -2 | 1 | 4 | -2 | 1 |
| 9295 | 257 | -15 | 12084 | 334 | -20 | 1 | -1 | -2 | 1 | -1 | -3 |
| 8520 | 313 | -166 | 11076 | 407 | -216 | -11 | -1 | 1 | -14 | -2 | 2 |
| 7414 | 164 | -197 | 9639 | 213 | -256 | 6 | -2 | 1 | 7 | -2 | 1 |
| 5432 | 11 | -176 | 7061 | 14 | -229 | 0 | -2 | -1 | 0 | -3 | -1 |
| 7449 | 168 | -220 | 9684 | 219 | -286 | -2 | -2 | 0 | -3 | -3 | 0 |
| 5457 | 138 | 26 | 7095 | 179 | 33 | -4 | -2 | 1 | -6 | -2 | 1 |
| 2846 | 122 | 83 | 3700 | 159 | 107 | 3 | -2 | -1 | 4 | -2 | -1 |
| 8550 | 217 | 159 | 11115 | 282 | 207 | 3 | -2 | -1 | 4 | -3 | -1 |
| 5315 | 116 | -39 | 6909 | 151 | -50 | 3 | -2 | 0 | 3 | -3 | 0 |
| 8327 | 305 | 94 | 10825 | 397 | 122 | 0 | -2 | 3 | 0 | -2 | 4 |
| 7070 | 169 | -48 | 9192 | 220 | -63 | 0 | -2 | 4 | 1 | -2 | 5 |
| 7565 | 124 | -51 | 9835 | 161 | -66 | -8 | -3 | -1 | -10 | -4 | -2 |

| | | | | | | | | | | | |
|------|-----|------|-------|------|------|-----|----|----|-----|----|-----|
| 3245 | 144 | 82 | 4218 | 187 | 106 | 0 | -4 | 1 | 0 | -5 | 1 |
| 7421 | 205 | 176 | 9647 | 267 | 228 | -1 | -4 | 0 | -1 | -5 | 0 |
| 3596 | 145 | -26 | 4675 | 189 | -34 | -8 | -2 | -2 | -10 | -3 | -3 |
| 6138 | 139 | -28 | 7980 | 181 | -37 | -16 | -1 | -4 | -20 | -1 | -5 |
| 5286 | 141 | 145 | 6872 | 183 | 188 | -1 | -4 | 1 | -2 | -5 | 1 |
| 2430 | 66 | 15 | 3159 | 85 | 19 | 3 | 0 | 3 | 4 | 1 | 4 |
| 2063 | 28 | 22 | 2681 | 37 | 29 | -8 | 1 | -5 | -10 | 1 | -7 |
| 2347 | 29 | 74 | 3051 | 37 | 96 | -7 | 1 | 2 | -9 | 1 | 2 |
| 2096 | -30 | 53 | 2725 | -39 | 69 | -3 | -2 | 0 | -4 | -2 | 0 |
| 2659 | 79 | 7 | 3457 | 103 | 9 | 3 | -2 | 1 | 3 | -2 | 1 |
| 2126 | 59 | -19 | 2763 | 77 | -24 | 0 | -2 | 0 | 0 | -2 | 1 |
| 2207 | 84 | 95 | 2869 | 109 | 124 | -1 | -2 | -1 | -1 | -3 | -1 |
| 1804 | -43 | 53 | 2345 | -55 | 69 | 0 | -2 | 0 | 0 | -2 | -1 |
| 1695 | -95 | 16 | 2204 | -124 | 21 | -11 | -2 | 1 | -14 | -2 | 1 |
| 1547 | -86 | 35 | 2010 | -112 | 45 | -7 | -2 | 0 | -9 | -3 | 0 |
| 2013 | -8 | -52 | 2616 | -11 | -68 | 0 | -1 | -2 | 1 | -1 | -3 |
| 1640 | -45 | -12 | 2132 | -58 | -15 | -4 | -3 | 0 | -5 | -3 | 0 |
| 1664 | -52 | 40 | 2163 | -67 | 52 | 0 | -2 | 0 | 0 | -2 | 0 |
| 2188 | -77 | -45 | 2845 | -100 | -59 | 3 | -2 | -1 | 3 | -3 | -1 |
| 1660 | -74 | -64 | 2158 | -96 | -83 | 2 | -2 | 0 | 2 | -3 | 0 |
| 1848 | -16 | -46 | 2403 | -21 | -60 | -1 | -2 | -2 | -2 | -2 | -3 |
| 2738 | 54 | -82 | 3559 | 70 | -107 | 0 | -1 | 0 | 0 | -2 | 0 |
| 2098 | 68 | -84 | 2728 | 89 | -110 | -4 | -2 | -1 | -5 | -3 | -1 |
| 2505 | 95 | 66 | 3256 | 124 | 85 | 3 | -2 | 0 | 4 | -2 | -1 |
| 2649 | 90 | -19 | 3443 | 117 | -24 | 2 | -2 | -1 | 3 | -2 | -1 |
| 7402 | 182 | -83 | 9623 | 236 | -108 | -5 | -3 | 0 | -7 | -3 | 0 |
| 3616 | 100 | -77 | 4701 | 130 | -101 | -1 | -2 | 0 | -1 | -2 | 0 |
| 2906 | 84 | -3 | 3778 | 109 | -4 | -1 | -2 | 3 | -1 | -2 | 5 |
| 4505 | 149 | -5 | 5857 | 194 | -7 | -6 | -3 | -1 | -7 | -4 | -2 |
| 5684 | 190 | -143 | 7389 | 247 | -186 | -3 | -4 | 0 | -4 | -5 | 1 |
| 3415 | 131 | -106 | 4440 | 171 | -138 | -3 | -4 | 1 | -3 | -5 | 1 |
| 8601 | 176 | -74 | 11181 | 228 | -96 | -3 | -4 | -1 | -4 | -5 | -1 |
| 3856 | 83 | -23 | 5013 | 108 | -29 | -2 | -2 | 4 | -2 | -3 | 5 |
| 8199 | 113 | -56 | 10659 | 147 | -73 | 0 | -4 | 1 | -1 | -5 | 1 |
| 5644 | 94 | 67 | 7337 | 122 | 88 | -4 | -4 | 0 | -5 | -5 | 0 |
| 7989 | 234 | -96 | 10385 | 304 | -124 | -8 | 1 | -8 | -11 | 1 | -10 |
| 6759 | 196 | 100 | 8787 | 255 | 130 | -2 | -3 | -1 | -3 | -4 | -2 |
| 7960 | 221 | 368 | 10348 | 287 | 478 | -5 | 1 | 2 | -7 | 1 | 2 |
| 8532 | 302 | 66 | 11091 | 392 | 86 | -5 | -3 | 2 | -6 | -4 | 3 |
| 5070 | 16 | 183 | 6591 | 20 | 238 | -9 | -1 | -1 | -11 | -2 | -2 |
| 5625 | 0 | 248 | 7313 | 0 | 323 | -4 | -3 | -1 | -6 | -4 | -1 |
| 8557 | 265 | -294 | 11125 | 344 | -382 | -6 | 0 | -3 | -7 | 0 | -3 |
| 8141 | 220 | 243 | 10583 | 286 | 316 | 0 | -1 | 3 | 0 | -1 | 3 |
| 7057 | 158 | -374 | 9174 | 205 | -486 | -1 | -3 | -1 | -2 | -4 | -2 |
| 8432 | 341 | -22 | 10962 | 443 | -28 | -18 | -4 | -2 | -24 | -5 | -3 |
| 8481 | 327 | -34 | 11026 | 425 | -44 | -19 | -3 | -1 | -25 | -4 | -1 |
| 5810 | -39 | -95 | 7553 | -50 | -124 | -3 | -3 | -2 | -4 | -4 | -3 |

| | | | | | | | | | | | |
|------|-----|------|-------|------|------|-----|----|----|-----|----|----|
| 5595 | -53 | -173 | 7273 | -69 | -225 | 2 | -3 | 0 | 2 | -3 | 0 |
| 7635 | 172 | -320 | 9926 | 223 | -417 | 2 | -3 | 1 | 3 | -4 | 1 |
| 5584 | 83 | 28 | 7259 | 108 | 36 | -13 | -4 | 0 | -18 | -5 | 1 |
| 4503 | 97 | -84 | 5854 | 126 | -109 | 0 | -3 | 0 | 0 | -4 | 1 |
| 6710 | 175 | 120 | 8722 | 228 | 156 | 6 | -2 | -2 | 7 | -3 | -3 |
| 5246 | 93 | 50 | 6820 | 122 | 65 | -7 | -4 | -2 | -9 | -5 | -2 |
| 6154 | 173 | 95 | 8000 | 224 | 124 | 3 | -4 | 1 | 4 | -5 | 1 |
| 6887 | 119 | 68 | 8953 | 154 | 88 | 0 | -3 | 1 | 1 | -4 | 2 |
| 6361 | 110 | 2 | 8269 | 144 | 3 | 4 | -3 | -3 | 6 | -4 | -4 |
| 8232 | 352 | 294 | 10702 | 457 | 382 | -10 | -3 | 4 | -13 | -3 | 5 |
| 4196 | 78 | 68 | 5454 | 102 | 89 | -10 | -2 | -3 | -14 | -2 | -4 |
| 8116 | 284 | 162 | 10551 | 370 | 210 | -6 | -3 | 1 | -8 | -4 | 1 |
| 7505 | 400 | -166 | 9756 | 520 | -216 | -2 | -3 | 0 | -2 | -4 | 0 |
| 8039 | 360 | -35 | 10451 | 469 | -45 | -7 | -3 | -2 | -10 | -4 | -2 |
| 2187 | 20 | 59 | 2843 | 25 | 77 | -6 | -3 | -1 | -8 | -4 | -1 |
| 2744 | 92 | -60 | 3567 | 120 | -78 | 2 | -3 | 4 | 2 | -5 | 5 |
| 2677 | 71 | 37 | 3480 | 92 | 48 | -8 | -2 | 0 | -11 | -3 | 0 |
| 3222 | 82 | 51 | 4188 | 107 | 66 | -10 | -3 | 0 | -14 | -4 | 0 |
| 2052 | -91 | -4 | 2668 | -118 | -5 | -4 | -4 | 0 | -6 | -6 | 0 |
| 2839 | 22 | 54 | 3691 | 28 | 70 | -11 | -4 | 0 | -14 | -5 | 0 |
| 3241 | 100 | 40 | 4214 | 130 | 53 | -16 | -3 | 1 | -21 | -4 | 1 |
| 2360 | -46 | 60 | 3067 | -60 | 79 | -2 | -2 | 1 | -2 | -3 | 1 |
| 1866 | -48 | 66 | 2425 | -62 | 85 | 9 | -2 | -1 | 12 | -2 | -1 |
| 2163 | -84 | -1 | 2812 | -110 | -1 | -9 | 0 | 4 | -11 | 0 | 5 |
| 2349 | 5 | -47 | 3054 | 7 | -61 | 12 | -2 | 0 | 16 | -3 | 0 |
| 2609 | 15 | -34 | 3392 | 19 | -45 | 11 | -2 | 0 | 15 | -3 | 0 |
| 1835 | -85 | -33 | 2386 | -111 | -42 | 13 | -4 | 1 | 16 | -5 | 2 |
| 3161 | 77 | -102 | 4109 | 100 | -133 | 10 | -1 | -1 | 13 | -1 | -1 |
| 3627 | 105 | 5 | 4715 | 137 | 6 | 1 | -1 | 5 | 1 | -1 | 7 |
| 1791 | -78 | -32 | 2329 | -102 | -41 | 11 | -2 | 0 | 14 | -3 | 0 |
| 3119 | 71 | -72 | 4054 | 93 | -94 | 2 | 2 | -4 | 3 | 2 | -5 |
| 1719 | -37 | -39 | 2234 | -48 | -51 | 13 | -3 | 1 | 17 | -4 | 2 |
| 2386 | -41 | -86 | 3101 | -54 | -112 | 10 | -2 | 0 | 13 | -3 | 0 |
| 3729 | 109 | 40 | 4848 | 142 | 52 | 7 | -1 | -1 | 9 | -1 | -2 |
| 8843 | 263 | 65 | 11496 | 342 | 85 | 11 | 1 | -2 | 14 | 1 | -3 |
| 8102 | 276 | -88 | 10532 | 359 | -114 | 10 | -2 | -1 | 12 | -3 | -1 |
| 4423 | 104 | -19 | 5750 | 135 | -25 | 10 | -2 | 0 | 13 | -2 | 0 |
| 6251 | 200 | -139 | 8126 | 260 | -180 | 8 | -4 | 1 | 10 | -5 | 1 |
| 7145 | 279 | 104 | 9288 | 363 | 135 | 9 | -3 | 1 | 11 | -4 | 1 |
| 6012 | 199 | -224 | 7815 | 259 | -291 | 10 | -2 | 1 | 13 | -3 | 1 |
| 7381 | 281 | 82 | 9596 | 366 | 107 | 11 | -3 | 0 | 14 | -3 | 0 |
| 7130 | 269 | -12 | 9269 | 350 | -15 | 17 | 2 | 3 | 22 | 3 | 4 |
| 5134 | 107 | -52 | 6674 | 140 | -67 | 2 | -1 | -4 | 3 | -1 | -5 |
| 5695 | 109 | 77 | 7404 | 141 | 100 | 11 | -3 | 0 | 14 | -3 | 0 |
| 8270 | 249 | 49 | 10752 | 324 | 64 | 14 | -1 | 2 | 18 | -2 | 2 |
| 5471 | 126 | -51 | 7112 | 163 | -66 | 17 | -4 | 0 | 22 | -5 | 0 |
| 6765 | 168 | 42 | 8795 | 218 | 54 | 15 | 6 | 7 | 20 | 8 | 9 |

| | | | | | | | | | | | |
|------|-----|------|-------|------|------|----|----|----|----|----|----|
| 5440 | 54 | 189 | 7072 | 70 | 246 | 15 | -2 | 2 | 19 | -2 | 2 |
| 5718 | 20 | 292 | 7433 | 26 | 379 | 12 | -5 | -2 | 15 | -7 | -3 |
| 7149 | 210 | 164 | 9294 | 273 | 213 | -6 | -2 | -5 | -7 | -3 | -6 |
| 6465 | 249 | -41 | 8404 | 324 | -54 | 43 | -5 | 9 | 57 | -6 | 12 |
| 6304 | 174 | -83 | 8195 | 227 | -108 | 25 | -4 | 8 | 32 | -5 | 11 |
| 5904 | -16 | -105 | 7675 | -20 | -137 | 61 | 0 | 3 | 79 | 0 | 5 |
| 5409 | 28 | -171 | 7032 | 37 | -223 | 29 | 3 | 0 | 37 | 4 | 0 |
| 8444 | 352 | -82 | 10978 | 457 | -107 | 2 | 0 | 5 | 3 | 0 | 6 |
| 8641 | 336 | -152 | 11234 | 437 | -198 | 20 | 0 | 3 | 27 | 1 | 4 |
| 7730 | 176 | -300 | 10048 | 229 | -390 | 13 | 1 | 3 | 18 | 1 | 4 |
| 7375 | 199 | -207 | 9588 | 258 | -270 | 23 | 0 | 3 | 29 | 1 | 3 |
| 3101 | 118 | 22 | 4031 | 153 | 29 | 40 | -4 | 9 | 51 | -5 | 11 |
| 6099 | 127 | 113 | 7928 | 165 | 147 | 50 | -4 | 12 | 65 | -5 | 15 |
| 6616 | 170 | 25 | 8600 | 221 | 32 | 20 | 1 | 3 | 26 | 1 | 4 |
| 8670 | 331 | 135 | 11271 | 431 | 176 | 32 | 1 | 4 | 41 | 1 | 5 |
| 7937 | 378 | -85 | 10318 | 491 | -110 | 41 | -5 | 10 | 53 | -6 | 13 |
| 7385 | 188 | 54 | 9601 | 244 | 70 | 40 | -6 | 12 | 52 | -8 | 16 |
| 7845 | 221 | 68 | 10198 | 287 | 89 | 27 | 2 | 3 | 35 | 2 | 4 |
| 5078 | 87 | -33 | 6602 | 112 | -43 | 56 | 2 | 1 | 72 | 2 | 2 |
| 5566 | 134 | 56 | 7236 | 174 | 73 | 18 | 1 | 2 | 24 | 1 | 2 |
| 5586 | 129 | 45 | 7262 | 167 | 59 | 30 | -3 | 9 | 39 | -4 | 12 |
| 7789 | 300 | 280 | 10125 | 391 | 364 | 48 | -3 | 9 | 63 | -3 | 12 |
| 4322 | 106 | -23 | 5619 | 138 | -30 | 25 | 0 | 3 | 33 | 0 | 3 |
| 2714 | 76 | 3 | 3529 | 99 | 3 | 4 | -1 | 0 | 5 | -2 | 0 |
| 1902 | -38 | 41 | 2472 | -49 | 53 | 21 | -2 | 8 | 27 | -2 | 11 |
| 2119 | -85 | -15 | 2754 | -110 | -20 | 21 | 1 | 3 | 27 | 1 | 4 |
| 1540 | -89 | 43 | 2002 | -115 | 56 | 21 | 0 | 3 | 27 | 1 | 4 |
| 2502 | -43 | 80 | 3252 | -56 | 104 | 17 | 1 | 1 | 23 | 1 | 2 |
| 2220 | 25 | 45 | 2886 | 33 | 59 | 38 | -5 | 10 | 49 | -6 | 13 |
| 2453 | 33 | 94 | 3188 | 43 | 122 | 11 | 0 | 2 | 15 | 1 | 2 |
| 3322 | 105 | 21 | 4319 | 137 | 27 | 29 | -1 | -1 | 38 | -1 | -2 |
| 2987 | 96 | 33 | 3883 | 125 | 43 | 39 | -4 | 10 | 50 | -5 | 12 |
| 2679 | 78 | 55 | 3482 | 102 | 72 | 35 | -4 | 9 | 46 | -5 | 11 |
| 3409 | 109 | 7 | 4431 | 142 | 9 | 23 | 1 | 4 | 30 | 1 | 5 |
| 2094 | -72 | -40 | 2722 | -94 | -52 | 56 | 1 | 3 | 73 | 1 | 3 |
| 2734 | 70 | -114 | 3554 | 91 | -149 | 8 | 0 | 5 | 10 | 0 | 6 |
| 1743 | -41 | -17 | 2266 | -53 | -23 | 25 | 1 | 4 | 32 | 1 | 5 |
| 2102 | 1 | -63 | 2733 | 1 | -82 | 41 | -6 | 13 | 53 | -8 | 17 |
| 2232 | -76 | -25 | 2902 | -98 | -32 | 22 | -1 | 7 | 29 | -2 | 10 |
| 1693 | -44 | -32 | 2201 | -57 | -41 | 26 | 0 | 3 | 34 | 1 | 4 |
| 1808 | -6 | -36 | 2350 | -8 | -47 | 32 | 3 | -1 | 41 | 3 | -1 |
| 2706 | 108 | 0 | 3518 | 140 | 0 | 34 | -4 | 9 | 44 | -6 | 12 |
| 2879 | 68 | -78 | 3743 | 89 | -102 | 27 | 2 | 1 | 35 | 3 | 1 |
| 4020 | 101 | 17 | 5225 | 132 | 22 | 31 | -4 | 9 | 40 | -5 | 11 |
| 7701 | 211 | 31 | 10011 | 275 | 40 | 40 | -1 | 7 | 52 | -1 | 9 |
| 8219 | 257 | -166 | 10685 | 334 | -216 | 42 | -5 | 10 | 55 | -6 | 13 |
| 8072 | 284 | 127 | 10494 | 370 | 164 | 62 | 3 | 1 | 81 | 4 | 2 |

| | | | | | | | | | | | |
|------|-----|------|-------|------|------|----|----|-----|-----|----|-----|
| 3989 | 142 | -141 | 5186 | 184 | -184 | 20 | 0 | 3 | 26 | 0 | 4 |
| 6166 | 210 | -84 | 8016 | 273 | -109 | 25 | 0 | 3 | 32 | 0 | 4 |
| 6269 | 223 | -216 | 8149 | 290 | -280 | 30 | 2 | 2 | 38 | 3 | 3 |
| 6991 | 281 | 90 | 9088 | 365 | 118 | 25 | 1 | 3 | 32 | 1 | 4 |
| 7254 | 239 | -10 | 9431 | 311 | -14 | 34 | -4 | 9 | 44 | -6 | 12 |
| 5176 | 121 | 26 | 6729 | 157 | 33 | 27 | -2 | 2 | 35 | -2 | 2 |
| 4121 | 108 | -60 | 5358 | 140 | -77 | 19 | 0 | 3 | 25 | 0 | 4 |
| 8570 | 275 | -46 | 11141 | 357 | -59 | 31 | -4 | 8 | 40 | -5 | 10 |
| 5412 | 17 | 255 | 7035 | 22 | 331 | 28 | 1 | 3 | 36 | 1 | 4 |
| 6630 | 165 | -61 | 8619 | 215 | -79 | 46 | -5 | 10 | 59 | -6 | 13 |
| 8478 | 304 | 117 | 11022 | 396 | 152 | 21 | 1 | 4 | 27 | 1 | 5 |
| 7449 | 219 | 128 | 9684 | 284 | 166 | 37 | -1 | 7 | 48 | -1 | 9 |
| 5646 | 50 | 206 | 7340 | 65 | 267 | 31 | 2 | 0 | 40 | 3 | 0 |
| 7842 | 198 | 204 | 10195 | 258 | 265 | 35 | -4 | 9 | 46 | -6 | 12 |
| 5350 | -8 | 168 | 6955 | -10 | 218 | 15 | 0 | 3 | 19 | 0 | 4 |
| 7798 | 151 | 108 | 10138 | 197 | 141 | 26 | -4 | 7 | 34 | -5 | 9 |
| 8173 | 207 | 320 | 10625 | 269 | 417 | 25 | 1 | 3 | 33 | 1 | 4 |
| 6908 | 18 | 56 | 8981 | 23 | 72 | 78 | 2 | 1 | 102 | 3 | 1 |
| 8677 | 248 | -326 | 11281 | 323 | -424 | 57 | 1 | 3 | 74 | 1 | 4 |
| 7668 | 195 | -98 | 9969 | 254 | -128 | 61 | 1 | 4 | 79 | 1 | 5 |
| 7147 | 99 | 38 | 9291 | 129 | 49 | 40 | -4 | 9 | 52 | -5 | 12 |
| 2568 | 82 | 49 | 3339 | 106 | 64 | 15 | 1 | 3 | 19 | 1 | 3 |
| 6784 | 29 | -297 | 8819 | 37 | -386 | 46 | -5 | 10 | 59 | -6 | 13 |
| 5852 | 56 | 166 | 7607 | 73 | 216 | 30 | -3 | 8 | 38 | -4 | 11 |
| 3471 | 99 | -36 | 4512 | 129 | -47 | 25 | 0 | 3 | 33 | 1 | 4 |
| 3109 | 127 | -38 | 4041 | 165 | -50 | 26 | -4 | 8 | 34 | -5 | 10 |
| 4430 | 118 | -39 | 5759 | 153 | -50 | 21 | 0 | 3 | 27 | 1 | 4 |
| 3670 | 117 | 149 | 4772 | 152 | 194 | 21 | 1 | 4 | 27 | 1 | 5 |
| 7966 | 124 | 39 | 10356 | 161 | 51 | 49 | 2 | 0 | 63 | 2 | 1 |
| 5754 | 22 | 44 | 7480 | 29 | 57 | 11 | 1 | 1 | 14 | 1 | 2 |
| 2941 | 63 | -30 | 3823 | 82 | -39 | 20 | -3 | 5 | 26 | -4 | 6 |
| 7806 | 78 | -206 | 10148 | 102 | -268 | 26 | -5 | 0 | 34 | -7 | 0 |
| 2118 | -41 | -72 | 2753 | -54 | -94 | 26 | -1 | 18 | 34 | -1 | 23 |
| 2390 | 84 | -24 | 3107 | 109 | -31 | 32 | -7 | -5 | 42 | -9 | -7 |
| 1780 | -42 | 44 | 2315 | -55 | 58 | 23 | -1 | 8 | 30 | -2 | 10 |
| 2090 | -12 | -63 | 2717 | -15 | -82 | 28 | 0 | -11 | 36 | 0 | -14 |
| 2674 | 102 | 31 | 3477 | 132 | 40 | 38 | 0 | -19 | 49 | 0 | -24 |
| 2695 | 82 | 35 | 3504 | 106 | 46 | | | | | | |
| 2221 | 68 | -58 | 2887 | 89 | -76 | | | | | | |
| 1493 | -99 | -41 | 1941 | -128 | -53 | | | | | | |
| 2190 | -1 | -42 | 2847 | -1 | -55 | | | | | | |
| 1643 | -74 | -64 | 2136 | -96 | -83 | | | | | | |
| 1918 | -52 | 57 | 2494 | -68 | 74 | | | | | | |
| 2520 | 67 | 57 | 3276 | 87 | 74 | | | | | | |
| 2294 | 32 | 10 | 2982 | 41 | 13 | | | | | | |
| 1910 | -93 | 8 | 2484 | -120 | 10 | | | | | | |
| 2172 | -93 | 49 | 2824 | -121 | 64 | | | | | | |

| | | | | | |
|------|-----|------|-------|-----|------|
| 2553 | 53 | 90 | 3319 | 69 | 117 |
| 2610 | 91 | -30 | 3393 | 118 | -38 |
| 2437 | 54 | 7 | 3168 | 70 | 9 |
| 2643 | 84 | -16 | 3435 | 109 | -21 |
| 2179 | -41 | 66 | 2833 | -54 | 86 |
| 3502 | 101 | -91 | 4553 | 131 | -118 |
| 6428 | 22 | 55 | 8356 | 29 | 72 |
| 7576 | 111 | 121 | 9849 | 144 | 157 |
| 3217 | 129 | 118 | 4182 | 168 | 153 |
| 7878 | 165 | 70 | 10241 | 215 | 91 |
| 3815 | 75 | 73 | 4959 | 97 | 95 |
| 5188 | 90 | 107 | 6744 | 117 | 139 |
| 6199 | 97 | -116 | 8059 | 127 | -150 |
| 5902 | 58 | -88 | 7673 | 75 | -114 |
| 3607 | 84 | -216 | 4689 | 110 | -281 |
| 2307 | 142 | 33 | 2999 | 184 | 43 |
| 7180 | 81 | 66 | 9333 | 105 | 85 |
| 8925 | 225 | -38 | 11603 | 293 | -49 |
| 7951 | 141 | -167 | 10336 | 183 | -217 |
| 8190 | 153 | 116 | 10647 | 199 | 151 |
| 5653 | -4 | -114 | 7349 | -5 | -148 |
| 6522 | 4 | -228 | 8479 | 5 | -297 |
| 7832 | 215 | -32 | 10182 | 279 | -42 |

Tabella 2: sollecitazioni nel rivestimento definitivo (N>0: compressione, M>0: tende le fibre in intradosso) – Galleria di linea

| Calotta | | | | | | Arco rovescio | | | | | |
|--------------------------------|-------------------------|------------------------|---------------------------------|-------------------------|------------------------|--------------------------------|-------------------------|------------------------|---------------------------------|-------------------------|------------------------|
| Sollecitazioni caratteristiche | | | Sollecitazioni di calcolo (SLU) | | | Sollecitazioni caratteristiche | | | Sollecitazioni di calcolo (SLU) | | |
| N _k [kN] | M _k [kNm] | T _k [kN] | N _d [kN] | M _d [kNm] | T _d [kN] | N _k [kN] | M _k [kNm] | T _k [kN] | N _d [kN] | M _d [kNm] | T _d [kN] |
| 3844 | 167 | -33 | 4997 | 217 | -43 | -19 | 9 | -6 | -25 | 12 | -8 |
| 3628 | -79 | 109 | 4716 | -103 | 142 | -40 | 5 | -2 | -52 | 7 | -2 |
| 3645 | 90 | 48 | 4738 | 118 | 63 | 5 | 4 | 0 | 7 | 5 | 0 |
| 1720 | -37 | 25 | 2235 | -49 | 33 | -21 | 4 | 1 | -27 | 5 | 1 |
| 1697 | -36 | -94 | 2205 | -46 | -122 | -44 | 8 | -6 | -57 | 11 | -8 |
| 3723 | 94 | 69 | 4840 | 123 | 90 | -55 | 4 | 1 | -72 | 6 | 2 |
| 4269 | 71 | 187 | 5549 | 92 | 243 | -14 | 4 | -1 | -18 | 5 | -1 |
| 4119 | -7 | 323 | 5355 | -9 | 420 | -50 | 5 | 1 | -64 | 7 | 2 |
| 2693 | -99 | -66 | 3501 | -129 | -85 | 4 | 4 | 1 | 5 | 5 | 1 |
| 2060 | -72 | 72 | 2677 | -94 | 94 | -19 | 4 | -1 | -25 | 6 | -2 |
| 2557 | 25 | 28 | 3325 | 32 | 36 | -45 | 8 | -6 | -59 | 11 | -8 |
| 4010 | -70 | -300 | 5213 | -92 | -390 | -72 | 6 | -2 | -93 | 8 | -3 |
| 4293 | 147 | 11 | 5580 | 191 | 14 | -35 | 5 | -2 | -46 | 7 | -3 |
| 1829 | -12 | 17 | 2377 | -15 | 23 | -27 | 4 | 0 | -35 | 5 | 0 |
| 1419 | -7 | -7 | 1844 | -9 | -9 | -31 | 4 | 0 | -40 | 5 | 0 |
| 1729 | -33 | 52 | 2247 | -43 | 68 | -21 | 4 | 0 | -27 | 5 | -1 |
| 3550 | 65 | 43 | 4616 | 84 | 56 | -11 | 4 | 1 | -14 | 5 | 1 |
| 5056 | 110 | 97 | 6573 | 142 | 126 | 23 | 4 | -1 | 30 | 5 | -1 |
| 3035 | -13 | -190 | 3945 | -17 | -247 | -36 | 4 | -3 | -46 | 5 | -4 |
| 3085 | -6 | -199 | 4010 | -8 | -258 | -68 | 15 | -12 | -88 | 19 | -16 |
| 2084 | -80 | 50 | 2709 | -103 | 65 | -13 | 9 | 2 | -17 | 12 | 2 |
| 4767 | 118 | -79 | 6198 | 154 | -103 | -12 | 9 | 3 | -16 | 11 | 5 |
| 4033 | 108 | -56 | 5242 | 140 | -73 | -20 | 9 | 2 | -27 | 12 | 2 |
| 3474 | 68 | -49 | 4516 | 88 | -64 | -40 | 17 | 6 | -52 | 23 | 7 |
| 4152 | 103 | 74 | 5397 | 133 | 96 | -21 | 17 | 14 | -27 | 22 | 18 |
| 4868 | 107 | -68 | 6329 | 139 | -88 | 23 | 8 | 1 | 30 | 10 | 2 |
| 3424 | 79 | -26 | 4451 | 102 | -34 | -29 | 6 | -1 | -38 | 8 | -1 |
| 4423 | 117 | -111 | 5749 | 153 | -144 | 5 | 5 | -2 | 7 | 7 | -2 |
| 4215 | 124 | -16 | 5480 | 161 | -20 | -2 | 5 | -1 | -3 | 7 | -1 |
| 2227 | -32 | 98 | 2895 | -42 | 127 | 22 | 5 | 0 | 29 | 6 | 0 |
| 4146 | 93 | 33 | 5389 | 121 | 43 | -4 | 7 | 5 | -5 | 9 | 6 |
| 3437 | 59 | 46 | 4468 | 76 | 60 | -4 | 5 | 2 | -5 | 6 | 3 |
| 2172 | 2 | -34 | 2823 | 2 | -44 | 9 | 7 | 4 | 11 | 9 | 6 |
| 2330 | -2 | 55 | 3029 | -2 | 72 | 18 | 4 | 0 | 23 | 6 | 0 |
| 1564 | -10 | -2 | 2033 | -13 | -2 | -17 | 6 | 0 | -22 | 8 | 0 |
| 4281 | 101 | 60 | 5566 | 131 | 79 | -42 | 5 | 3 | -54 | 6 | 4 |
| 2376 | 35 | -13 | 3089 | 45 | -17 | 0 | 5 | 2 | 1 | 7 | 3 |
| 1792 | -38 | -52 | 2330 | -49 | -67 | -20 | 17 | 5 | -26 | 22 | 7 |
| 1555 | -7 | 1 | 2021 | -10 | 1 | -26 | 19 | 14 | -34 | 25 | 18 |
| 4361 | 107 | -19 | 5669 | 140 | -24 | 19 | 6 | 2 | 25 | 7 | 3 |

| | | | | | | | | | | | |
|------|------|------|------|------|------|-------|------|------|-------|------|------|
| 2312 | -43 | 38 | 3005 | -55 | 49 | 12 | 12 | -20 | 15 | 15 | -26 |
| 3711 | 48 | 84 | 4825 | 62 | 109 | -8 | 10 | -29 | -10 | 13 | -37 |
| 3682 | 84 | 14 | 4787 | 109 | 18 | 9 | 8 | 2 | 12 | 11 | 2 |
| 3790 | 76 | -5 | 4927 | 98 | -6 | 21 | 7 | 2 | 28 | 10 | 2 |
| 3952 | 120 | -12 | 5138 | 156 | -16 | 4 | 6 | -1 | 6 | 8 | -2 |
| 3700 | -56 | -176 | 4810 | -73 | -228 | 4 | 7 | 8 | 5 | 9 | 11 |
| 3836 | 80 | -52 | 4986 | 103 | -67 | 16 | 7 | 8 | 21 | 9 | 10 |
| 3997 | 93 | -82 | 5196 | 121 | -106 | -5 | 11 | 11 | -7 | 15 | 14 |
| 5045 | 124 | 15 | 6558 | 161 | 19 | -207 | 26 | -60 | -269 | 34 | -78 |
| 5374 | 141 | 133 | 6986 | 183 | 172 | -40 | -58 | -61 | -52 | -75 | -79 |
| 4448 | -86 | 285 | 5783 | -112 | 371 | 401 | 181 | -97 | 521 | 235 | -126 |
| 5571 | 3 | -79 | 7243 | 3 | -102 | -65 | -57 | -39 | -84 | -74 | -50 |
| 6006 | 22 | -122 | 7808 | 29 | -158 | -463 | -40 | -137 | -602 | -53 | -178 |
| 4687 | 11 | 527 | 6092 | 14 | 685 | -106 | 27 | -25 | -138 | 36 | -33 |
| 4920 | 120 | 54 | 6397 | 156 | 70 | -152 | 16 | -55 | -197 | 21 | -72 |
| 6118 | 107 | 6 | 7953 | 139 | 8 | -201 | 48 | -142 | -261 | 62 | -185 |
| 5624 | 129 | 240 | 7311 | 168 | 312 | -40 | 11 | -76 | -52 | 14 | -99 |
| 6336 | 124 | -77 | 8237 | 162 | -100 | -562 | -45 | -147 | -730 | -59 | -191 |
| 6126 | 205 | -249 | 7964 | 267 | -324 | -494 | 15 | 90 | -643 | 19 | 118 |
| 6072 | 155 | 363 | 7894 | 201 | 471 | -123 | -23 | -13 | -159 | -30 | -17 |
| 4714 | -58 | 329 | 6128 | -76 | 427 | -1126 | -49 | -106 | -1464 | -64 | -138 |
| 5636 | 131 | -125 | 7327 | 170 | -162 | -519 | 194 | -130 | -674 | 252 | -169 |
| 7183 | 50 | -111 | 9338 | 65 | -144 | -224 | 132 | -91 | -291 | 171 | -119 |
| 5426 | -132 | 0 | 7054 | -172 | -1 | -156 | 80 | -93 | -203 | 104 | -121 |
| 4856 | -188 | 229 | 6313 | -245 | 298 | -715 | 8 | -174 | -929 | 11 | -227 |
| 3709 | 103 | -152 | 4822 | 135 | -198 | -115 | 5 | 15 | -149 | 7 | 19 |
| 3218 | 130 | 30 | 4184 | 169 | 39 | -51 | 40 | -43 | -67 | 53 | -56 |
| 2125 | -12 | -52 | 2762 | -15 | -67 | -215 | 10 | -25 | -279 | 13 | -32 |
| 2113 | 86 | -66 | 2746 | 112 | -85 | -165 | -11 | 24 | -215 | -15 | 31 |
| 1201 | -51 | 78 | 1561 | -66 | 102 | -26 | -84 | -18 | -34 | -109 | -23 |
| 4915 | 90 | -56 | 6390 | 117 | -73 | -120 | -29 | -20 | -156 | -37 | -26 |
| 2496 | 85 | 57 | 3245 | 111 | 75 | -82 | -28 | -17 | -107 | -37 | -22 |
| 1783 | -57 | -33 | 2318 | -74 | -42 | -42 | -61 | 29 | -55 | -79 | 38 |
| 4618 | 123 | -23 | 6004 | 160 | -30 | -198 | -9 | -12 | -257 | -11 | -15 |
| 2553 | 24 | -104 | 3319 | 31 | -135 | -278 | 3 | -13 | -361 | 3 | -17 |
| 4885 | 99 | -124 | 6351 | 129 | -161 | -1045 | 82 | -207 | -1359 | 106 | -269 |
| 3856 | 115 | -80 | 5013 | 150 | -103 | -875 | -104 | -36 | -1138 | -135 | -47 |
| 3301 | 103 | -16 | 4291 | 134 | -21 | -187 | 7 | -73 | -243 | 9 | -94 |
| 4509 | 28 | 217 | 5861 | 37 | 281 | -133 | -38 | 38 | -173 | -50 | 50 |
| 4362 | 30 | 284 | 5670 | 39 | 369 | -139 | -14 | 13 | -181 | -18 | 16 |
| 4031 | 107 | 65 | 5241 | 139 | 85 | -184 | -4 | -13 | -240 | -5 | -17 |
| 1685 | -57 | -47 | 2190 | -74 | -61 | -143 | -14 | 9 | -186 | -18 | 12 |
| 1982 | -53 | -94 | 2576 | -69 | -122 | -164 | 29 | -71 | -213 | 38 | -93 |
| 1233 | -27 | 24 | 1603 | -35 | 31 | -16 | -28 | 1 | -21 | -36 | 1 |
| 1497 | -25 | -14 | 1946 | -33 | -18 | -110 | -122 | -85 | -143 | -159 | -111 |
| 1363 | -22 | 25 | 1772 | -29 | 32 | -491 | 9 | -29 | -638 | 12 | -37 |
| 4137 | 135 | -55 | 5379 | 176 | -71 | -834 | 50 | 77 | -1084 | 66 | 100 |

| | | | | | | | | | | | |
|------|-----|------|------|-----|------|------|------|------|-------|------|------|
| 1308 | -46 | 39 | 1700 | -59 | 50 | -233 | -1 | 10 | -303 | -1 | 13 |
| 3110 | 90 | -112 | 4043 | 117 | -145 | -198 | -146 | -35 | -257 | -189 | -45 |
| 5152 | -27 | -210 | 6697 | -35 | -273 | -394 | 54 | -8 | -513 | 70 | -10 |
| 5476 | 76 | -249 | 7119 | 99 | -324 | -276 | 40 | 14 | -358 | 52 | 18 |
| 1386 | -57 | 38 | 1802 | -75 | 50 | -638 | -132 | -94 | -830 | -171 | -122 |
| 1504 | -29 | -64 | 1955 | -38 | -83 | -249 | 47 | -56 | -323 | 61 | -73 |
| 1758 | 21 | -118 | 2286 | 28 | -153 | -168 | -5 | -1 | -218 | -6 | -1 |
| 2482 | 29 | -84 | 3226 | 38 | -109 | -178 | 3 | 5 | -232 | 5 | 7 |
| 3982 | 141 | 20 | 5177 | 183 | 26 | -121 | -11 | 25 | -158 | -14 | 33 |
| 4501 | 35 | 346 | 5851 | 45 | 450 | -121 | 0 | -37 | -157 | -1 | -48 |
| 1518 | -57 | 36 | 1974 | -75 | 46 | -165 | 3 | 12 | -215 | 4 | 16 |
| 3055 | 111 | 60 | 3972 | 144 | 78 | -229 | 76 | -107 | -298 | 99 | -139 |
| 1419 | -39 | 3 | 1845 | -51 | 4 | -486 | 128 | -161 | -632 | 166 | -210 |
| 3086 | 84 | -94 | 4012 | 109 | -122 | -212 | 43 | 52 | -276 | 57 | 67 |
| 5979 | 86 | 98 | 7773 | 111 | 127 | -1 | 27 | -97 | -2 | 35 | -126 |
| 3605 | 69 | 22 | 4686 | 90 | 29 | -654 | -20 | -144 | -850 | -26 | -187 |
| 1543 | -40 | -3 | 2006 | -52 | -3 | -254 | 4 | -8 | -330 | 5 | -10 |
| 3890 | 76 | 52 | 5056 | 99 | 68 | -114 | -6 | 1 | -148 | -7 | 1 |
| 1803 | -27 | -25 | 2344 | -35 | -33 | -77 | -1 | 12 | -100 | -2 | 15 |
| 5415 | 144 | -1 | 7039 | 188 | -1 | -139 | -45 | 31 | -181 | -59 | 41 |
| 1853 | -21 | 59 | 2409 | -27 | 77 | -580 | -132 | 28 | -754 | -172 | 36 |
| 1719 | -28 | -73 | 2235 | -37 | -95 | -20 | 8 | 3 | -26 | 10 | 4 |
| 1577 | -34 | -19 | 2050 | -44 | -24 | -95 | 9 | -17 | -124 | 12 | -22 |
| 1258 | -50 | -31 | 1635 | -65 | -40 | -158 | 37 | 1 | -205 | 48 | 1 |
| 4979 | 126 | 167 | 6472 | 164 | 216 | -384 | -108 | -26 | -499 | -140 | -33 |
| 3593 | 40 | 22 | 4671 | 52 | 28 | -549 | -149 | 8 | -713 | -194 | 10 |
| 1481 | -42 | -10 | 1925 | -55 | -14 | -86 | -81 | -27 | -112 | -105 | -35 |
| 4391 | 111 | 98 | 5709 | 145 | 127 | -191 | -114 | 64 | -249 | -148 | 84 |
| 4347 | 133 | 71 | 5651 | 173 | 92 | -174 | -62 | 43 | -227 | -80 | 56 |
| 1826 | -15 | -105 | 2374 | -19 | -137 | -174 | -165 | 101 | -226 | -215 | 132 |
| 2027 | -9 | -50 | 2635 | -12 | -65 | -110 | -56 | -19 | -143 | -72 | -24 |
| 2417 | -21 | 64 | 3142 | -28 | 83 | -137 | -135 | 22 | -179 | -176 | 28 |
| 2791 | 4 | 182 | 3628 | 5 | 236 | -60 | 6 | 20 | -78 | 8 | 26 |
| 2839 | 45 | 58 | 3691 | 59 | 76 | -211 | -176 | 52 | -275 | -229 | 68 |
| 1765 | -35 | -7 | 2294 | -46 | -9 | 17 | -126 | -43 | 22 | -164 | -56 |
| 2705 | 19 | 3 | 3516 | 25 | 4 | -250 | -62 | 150 | -325 | -81 | 195 |
| 1243 | -28 | -6 | 1616 | -36 | -8 | -205 | -20 | 175 | -267 | -26 | 228 |
| 5482 | 171 | -31 | 7126 | 222 | -41 | -557 | 155 | 62 | -725 | 201 | 81 |
| 2845 | 32 | 16 | 3698 | 42 | 20 | -448 | -28 | 127 | -582 | -37 | 165 |
| 4355 | 136 | -169 | 5661 | 177 | -219 | 8 | 2 | 22 | 10 | 2 | 29 |
| 2359 | -2 | -3 | 3066 | -2 | -4 | -634 | -112 | 88 | -824 | -145 | 114 |
| 3143 | 36 | 58 | 4086 | 47 | 75 | -375 | -149 | 85 | -487 | -194 | 111 |
| 4004 | 98 | 84 | 5205 | 128 | 109 | -895 | -102 | 19 | -1164 | -132 | 24 |
| 4796 | 155 | -46 | 6235 | 201 | -60 | -248 | -55 | 84 | -323 | -72 | 109 |
| 2090 | -14 | 33 | 2718 | -18 | 43 | -181 | -30 | 83 | -235 | -39 | 108 |
| 4154 | 120 | 190 | 5400 | 156 | 247 | -83 | -18 | -16 | -108 | -23 | -21 |
| 1823 | -24 | 37 | 2370 | -31 | 48 | 7 | -22 | 9 | 9 | -28 | 11 |

| | | | | | | | | | | | |
|------|------|------|------|------|------|-------|------|------|-------|------|------|
| 2924 | 7 | 45 | 3801 | 9 | 58 | -1116 | -113 | -28 | -1451 | -147 | -37 |
| 2443 | -10 | -15 | 3176 | -13 | -20 | -429 | -184 | -48 | -558 | -239 | -63 |
| 1735 | -25 | 100 | 2255 | -33 | 129 | -66 | -27 | 25 | -85 | -35 | 32 |
| 5104 | 131 | -124 | 6635 | 170 | -161 | -71 | 4 | -135 | -93 | 5 | -175 |
| 5620 | 22 | -29 | 7306 | 28 | -38 | -105 | -51 | -14 | -137 | -66 | -18 |
| 4163 | -79 | -569 | 5413 | -103 | -740 | -76 | -8 | -8 | -99 | -10 | -11 |
| 6304 | -25 | -17 | 8195 | -32 | -23 | -60 | -35 | -16 | -77 | -45 | -21 |
| 4280 | -110 | -428 | 5563 | -143 | -556 | 65 | -8 | -10 | 85 | -11 | -13 |
| 5851 | 156 | -1 | 7606 | 203 | -2 | -21 | 4 | 7 | -27 | 6 | 10 |
| 5049 | 165 | 141 | 6564 | 215 | 183 | -36 | -17 | -7 | -47 | -23 | -10 |
| 5042 | 110 | -36 | 6555 | 142 | -47 | 10 | -5 | 7 | 13 | -7 | 9 |
| 4715 | -48 | -455 | 6129 | -62 | -591 | -43 | -6 | -16 | -55 | -7 | -21 |
| 5549 | 179 | -73 | 7213 | 232 | -94 | 0 | 9 | 45 | 0 | 12 | 58 |
| 5263 | 94 | 27 | 6841 | 123 | 35 | -6 | 0 | -8 | -8 | 0 | -10 |
| 5647 | 149 | -60 | 7341 | 194 | -77 | -8 | -102 | 91 | -11 | -132 | 118 |
| 4893 | 110 | -175 | 6361 | 143 | -228 | -52 | -14 | -16 | -68 | -18 | -21 |
| 4902 | -88 | -429 | 6372 | -115 | -558 | -14 | -5 | 2 | -18 | -6 | 3 |
| 5917 | 209 | 56 | 7692 | 272 | 72 | -74 | 2 | -2 | -96 | 3 | -2 |
| 6524 | 53 | 38 | 8481 | 69 | 49 | -60 | -34 | 14 | -79 | -44 | 18 |
| 4837 | 109 | 29 | 6289 | 142 | 38 | 3 | 7 | 66 | 3 | 9 | 86 |
| 3636 | 160 | 103 | 4727 | 207 | 133 | 54 | -10 | 14 | 71 | -13 | 18 |
| 3676 | 119 | 44 | 4778 | 154 | 57 | -13 | -13 | 34 | -17 | -17 | 45 |
| 4356 | 150 | 34 | 5663 | 195 | 44 | -125 | 5 | -21 | -162 | 7 | -27 |
| 3968 | 47 | -264 | 5158 | 61 | -343 | -89 | -83 | -80 | -116 | -108 | -104 |
| 3068 | -62 | -56 | 3988 | -81 | -73 | 89 | -10 | 32 | 116 | -13 | 41 |
| 3630 | -52 | -135 | 4719 | -68 | -175 | -88 | -74 | -58 | -114 | -96 | -75 |
| 3220 | -95 | -1 | 4185 | -123 | -1 | -33 | -21 | 7 | -43 | -28 | 9 |
| 4172 | 45 | -301 | 5424 | 59 | -391 | -137 | -37 | 106 | -179 | -48 | 137 |
| 4243 | 46 | -254 | 5516 | 60 | -330 | 24 | 1 | 23 | 32 | 2 | 30 |
| 3880 | 164 | 90 | 5044 | 214 | 117 | -107 | -159 | 12 | -139 | -207 | 15 |
| 3727 | 80 | -108 | 4846 | 104 | -141 | -76 | -108 | -15 | -99 | -140 | -19 |
| 3062 | -64 | -31 | 3980 | -83 | -41 | -215 | -82 | 65 | -279 | -107 | 84 |
| 2739 | 4 | 132 | 3561 | 6 | 171 | -217 | -177 | 5 | -282 | -230 | 7 |
| 2108 | 4 | 50 | 2740 | 5 | 65 | 31 | -11 | -6 | 41 | -14 | -8 |
| 1567 | -38 | 26 | 2037 | -49 | 34 | -13 | 0 | 9 | -17 | 0 | 12 |
| 4341 | 120 | 49 | 5643 | 155 | 64 | -385 | -26 | -36 | -500 | -33 | -47 |
| 4290 | 88 | 111 | 5577 | 114 | 144 | -146 | 3 | -120 | -189 | 4 | -156 |
| 2211 | 42 | 5 | 2875 | 55 | 6 | -33 | 38 | -135 | -43 | 50 | -175 |
| 4087 | 97 | 36 | 5313 | 126 | 46 | 11 | 0 | 47 | 14 | 1 | 60 |
| 1348 | -25 | 14 | 1753 | -32 | 19 | -202 | 46 | 153 | -263 | 60 | 199 |
| 2798 | 31 | 1 | 3637 | 40 | 2 | -145 | 31 | 167 | -189 | 40 | 218 |
| 3116 | 55 | 42 | 4051 | 71 | 55 | -88 | 7 | 44 | -114 | 9 | 57 |
| 1515 | -21 | -43 | 1970 | -28 | -56 | -46 | 3 | 60 | -60 | 4 | 78 |
| 1601 | -50 | -22 | 2081 | -65 | -29 | -1868 | -105 | 239 | -2429 | -137 | 311 |
| 1657 | -46 | -45 | 2154 | -59 | -59 | -150 | 8 | 63 | -195 | 11 | 82 |
| 1458 | -11 | 1 | 1895 | -15 | 2 | -973 | 46 | -109 | -1264 | 60 | -142 |
| 1493 | -19 | -58 | 1941 | -25 | -75 | -721 | 0 | 22 | -937 | 0 | 29 |

| | | | | | | | | | | | |
|------|-----|------|------|------|------|------|----|-----|------|----|-----|
| 1685 | -36 | -51 | 2190 | -47 | -67 | 9 | 13 | 42 | 12 | 16 | 55 |
| 2754 | -13 | 91 | 3580 | -17 | 118 | -30 | 9 | 21 | -39 | 11 | 28 |
| 2974 | 4 | 124 | 3866 | 6 | 161 | -1 | 8 | 25 | -1 | 11 | 32 |
| 3458 | 73 | 29 | 4496 | 94 | 38 | -20 | 12 | 25 | -26 | 16 | 33 |
| 3333 | 66 | -55 | 4333 | 86 | -72 | -37 | 18 | -24 | -48 | 23 | -32 |
| 3947 | 92 | 36 | 5130 | 120 | 47 | -6 | 14 | -7 | -8 | 18 | -9 |
| 3983 | 72 | -56 | 5178 | 94 | -72 | -42 | 14 | -29 | -55 | 18 | -38 |
| 3614 | 64 | 66 | 4698 | 84 | 86 | 26 | 14 | -8 | 33 | 18 | -11 |
| 3336 | 69 | 36 | 4337 | 89 | 47 | -3 | 19 | 13 | -4 | 24 | 17 |
| 4703 | 100 | -45 | 6114 | 130 | -58 | -8 | 17 | 14 | -11 | 22 | 18 |
| 3782 | 68 | -51 | 4916 | 88 | -66 | 16 | 18 | 16 | 20 | 23 | 21 |
| 3163 | 62 | -58 | 4112 | 80 | -75 | -22 | 8 | 3 | -29 | 10 | 4 |
| 3217 | 59 | -6 | 4183 | 77 | -8 | -3 | 9 | 3 | -5 | 11 | 4 |
| 3561 | 67 | 20 | 4630 | 86 | 26 | -4 | 5 | -2 | -5 | 7 | -3 |
| 3830 | 79 | -13 | 4980 | 103 | -18 | -35 | 5 | -2 | -46 | 7 | -3 |
| 1532 | -37 | 29 | 1992 | -48 | 38 | -22 | 5 | 4 | -29 | 7 | 5 |
| 1423 | -35 | -23 | 1849 | -45 | -30 | -14 | 6 | -2 | -18 | 8 | -2 |
| 4122 | 84 | 118 | 5358 | 109 | 154 | -91 | 7 | 0 | -119 | 9 | 0 |
| 1643 | -47 | -53 | 2136 | -61 | -69 | -35 | 5 | 2 | -46 | 6 | 3 |
| 2861 | 55 | 38 | 3719 | 71 | 50 | -50 | 5 | 0 | -65 | 6 | 0 |
| 2116 | -41 | 37 | 2751 | -53 | 49 | -1 | 5 | 3 | -2 | 7 | 4 |
| 1949 | -14 | -21 | 2534 | -19 | -27 | -25 | 5 | 2 | -33 | 7 | 3 |
| 2908 | -12 | -53 | 3780 | -16 | -69 | 8 | 10 | 4 | 11 | 13 | 5 |
| 4797 | 108 | -72 | 6237 | 140 | -94 | -15 | 9 | 4 | -19 | 12 | 5 |
| 4755 | 118 | -40 | 6181 | 153 | -52 | 2 | 6 | 0 | 2 | 7 | 0 |
| 4525 | 116 | 171 | 5882 | 151 | 222 | -36 | 6 | 3 | -46 | 7 | 3 |
| 1846 | -81 | 49 | 2400 | -106 | 64 | -8 | 17 | 12 | -10 | 22 | 15 |
| 1581 | -36 | 51 | 2055 | -47 | 66 | -67 | 5 | 3 | -87 | 6 | 4 |
| 4903 | 130 | 30 | 6374 | 169 | 39 | -34 | 6 | 0 | -44 | 7 | 0 |
| 5347 | 111 | 57 | 6952 | 144 | 74 | -85 | 5 | -1 | -110 | 7 | -1 |
| 3193 | 72 | -87 | 4151 | 94 | -113 | -71 | 26 | -22 | -92 | 34 | -28 |
| 3192 | 37 | 14 | 4149 | 48 | 19 | -64 | 14 | -14 | -83 | 19 | -18 |
| 2792 | -13 | -61 | 3629 | -16 | -79 | -121 | 6 | -2 | -157 | 8 | -3 |
| 5348 | 96 | -110 | 6953 | 124 | -143 | -78 | 27 | -25 | -101 | 35 | -33 |
| 2381 | -59 | -67 | 3096 | -77 | -87 | -110 | 26 | -21 | -143 | 34 | -27 |
| 2490 | -58 | -87 | 3238 | -76 | -114 | -72 | 6 | -1 | -93 | 7 | -2 |
| 1356 | -7 | 2 | 1763 | -9 | 2 | -68 | 5 | -3 | -89 | 7 | -3 |
| 4217 | 127 | -77 | 5482 | 165 | -100 | -106 | 12 | -9 | -138 | 15 | -11 |
| 4660 | 134 | 12 | 6058 | 175 | 16 | -85 | 7 | -5 | -111 | 9 | -6 |
| 2688 | -13 | -202 | 3494 | -17 | -263 | -54 | 5 | -3 | -70 | 7 | -4 |
| 3003 | 37 | 18 | 3904 | 48 | 23 | -102 | 6 | 0 | -133 | 8 | 0 |
| 3125 | 58 | 70 | 4062 | 76 | 91 | -79 | 6 | 0 | -103 | 7 | 0 |
| 1171 | -8 | 6 | 1522 | -10 | 7 | -53 | 5 | 2 | -68 | 7 | 2 |
| 1440 | -7 | 2 | 1872 | -9 | 3 | -113 | 6 | 2 | -147 | 7 | 2 |
| 2382 | -53 | -9 | 3097 | -68 | -11 | -18 | 4 | -2 | -24 | 6 | -3 |
| 2633 | -28 | -17 | 3423 | -36 | -22 | -59 | 6 | -3 | -77 | 8 | -4 |
| 1491 | -36 | 98 | 1938 | -47 | 128 | -65 | 6 | 0 | -85 | 7 | 0 |

| | | | | | | | | | | | |
|------|-----|------|------|------|------|-----|----|-----|------|----|-----|
| 1518 | -36 | 48 | 1973 | -47 | 62 | -81 | 7 | -4 | -105 | 9 | -6 |
| 5138 | 119 | 37 | 6680 | 155 | 48 | -21 | 3 | 1 | -27 | 4 | 1 |
| 4756 | 112 | -45 | 6182 | 146 | -58 | -1 | 3 | 1 | -1 | 4 | 1 |
| 4574 | 120 | 33 | 5946 | 156 | 42 | -24 | 4 | 0 | -32 | 5 | -1 |
| 4603 | 116 | 60 | 5984 | 151 | 78 | -1 | 3 | 0 | -1 | 4 | 0 |
| 4051 | 77 | -132 | 5266 | 101 | -171 | -2 | 3 | 0 | -3 | 4 | 1 |
| 1533 | -36 | 97 | 1993 | -47 | 126 | -24 | 4 | 1 | -31 | 5 | 1 |
| 4259 | 77 | -131 | 5537 | 100 | -170 | -26 | 2 | 0 | -34 | 3 | 0 |
| 3538 | 27 | -57 | 4599 | 35 | -74 | -6 | 4 | 0 | -8 | 5 | 1 |
| 4313 | 117 | -150 | 5607 | 152 | -195 | -35 | 18 | 17 | -45 | 23 | 22 |
| 4932 | 188 | -64 | 6411 | 244 | -83 | -11 | 23 | 19 | -15 | 30 | 25 |
| 4527 | 149 | 28 | 5885 | 194 | 36 | -5 | 3 | 0 | -6 | 4 | 0 |
| 4633 | -91 | 362 | 6023 | -118 | 470 | 2 | 7 | 5 | 3 | 9 | 6 |
| 4156 | 76 | 126 | 5403 | 99 | 164 | -13 | 6 | 5 | -16 | 7 | 7 |
| 4054 | 135 | -84 | 5270 | 175 | -109 | -28 | 17 | 14 | -36 | 22 | 18 |
| 4250 | 143 | -14 | 5525 | 186 | -19 | -24 | 23 | 18 | -31 | 30 | 24 |
| 4373 | -93 | 350 | 5685 | -120 | 454 | -23 | 3 | 0 | -30 | 4 | 0 |
| 3724 | -73 | 161 | 4841 | -95 | 209 | -22 | 3 | -1 | -29 | 5 | -2 |
| 5197 | -13 | 479 | 6756 | -17 | 622 | -3 | 4 | 1 | -4 | 5 | 2 |
| 4406 | 146 | -25 | 5728 | 189 | -32 | -28 | 6 | 4 | -37 | 7 | 6 |
| 4143 | 157 | 47 | 5386 | 205 | 61 | -16 | 6 | 6 | -21 | 8 | 8 |
| 4327 | 147 | 12 | 5626 | 191 | 16 | -7 | 5 | 1 | -10 | 7 | 1 |
| 3400 | -98 | 93 | 4420 | -127 | 122 | -26 | 5 | 1 | -34 | 6 | 1 |
| 4466 | 175 | -104 | 5806 | 228 | -135 | -43 | 12 | -6 | -56 | 16 | -8 |
| 3394 | -76 | 165 | 4412 | -99 | 214 | -35 | 8 | -5 | -45 | 10 | -6 |
| 3373 | -58 | 186 | 4384 | -75 | 242 | -29 | 14 | -11 | -38 | 19 | -14 |
| 4599 | 179 | -118 | 5978 | 233 | -153 | -8 | 4 | 0 | -10 | 6 | -1 |
| 4384 | 87 | 274 | 5700 | 113 | 356 | -33 | 5 | -2 | -43 | 6 | -2 |
| 4995 | 102 | 285 | 6493 | 132 | 371 | -24 | 6 | -3 | -31 | 8 | -5 |
| 4226 | 87 | 255 | 5494 | 113 | 332 | -46 | 8 | -4 | -60 | 10 | -6 |
| 4439 | 116 | 193 | 5771 | 151 | 251 | -5 | 5 | 0 | -6 | 6 | 0 |
| 3403 | -57 | 194 | 4423 | -74 | 252 | 2 | 4 | -3 | 2 | 5 | -4 |
| 4431 | 166 | -56 | 5760 | 216 | -72 | -29 | 4 | -3 | -37 | 6 | -3 |
| 4844 | 163 | -126 | 6297 | 211 | -164 | -44 | 5 | 1 | -57 | 7 | 1 |
| 3556 | 36 | -38 | 4623 | 47 | -50 | -59 | 5 | -2 | -77 | 7 | -2 |
| 1984 | -60 | 79 | 2579 | -78 | 103 | -75 | 7 | -2 | -97 | 9 | -3 |
| 4315 | 116 | 8 | 5610 | 150 | 11 | -83 | 15 | -12 | -108 | 20 | -16 |
| 1638 | -38 | 61 | 2129 | -50 | 79 | -2 | 4 | -2 | -2 | 5 | -3 |
| 1515 | -35 | 11 | 1970 | -45 | 14 | -44 | 12 | -5 | -57 | 16 | -7 |
| 3292 | 82 | -28 | 4280 | 107 | -36 | -45 | 5 | 1 | -58 | 6 | 2 |
| 4289 | 112 | 40 | 5576 | 145 | 52 | -29 | 5 | 1 | -38 | 7 | 2 |
| 4763 | 117 | -59 | 6191 | 153 | -77 | -14 | 8 | -17 | -18 | 10 | -22 |
| 2704 | -34 | -112 | 3515 | -44 | -145 | -4 | 9 | -29 | -5 | 11 | -38 |
| 4630 | 131 | 7 | 6018 | 170 | 9 | -25 | 11 | -38 | -33 | 15 | -49 |
| 4106 | 116 | -2 | 5338 | 151 | -2 | -24 | 11 | -20 | -32 | 14 | -25 |
| 1587 | -57 | 18 | 2064 | -74 | 24 | 6 | 10 | 5 | 8 | 13 | 7 |
| 3365 | 28 | -89 | 4375 | 36 | -116 | 12 | 11 | 14 | 16 | 14 | 18 |

| | | | | | | | | | | | |
|------|-----|------|------|-----|------|-----|----|-----|-----|----|-----|
| 4009 | 106 | -81 | 5212 | 138 | -105 | -3 | 15 | 13 | -4 | 19 | 17 |
| 3255 | 56 | -141 | 4232 | 73 | -183 | 19 | 9 | 9 | 24 | 12 | 12 |
| 1734 | -18 | 17 | 2254 | -24 | 22 | 11 | 9 | 23 | 14 | 11 | 30 |
| 4434 | 122 | -10 | 5765 | 158 | -13 | 1 | 14 | 7 | 2 | 19 | 9 |
| 3799 | 103 | -58 | 4939 | 133 | -75 | 1 | 4 | -5 | 1 | 5 | -6 |
| 2524 | -33 | -101 | 3281 | -43 | -132 | 18 | 8 | -1 | 24 | 11 | -1 |
| 3867 | 95 | -59 | 5028 | 124 | -77 | -8 | 13 | -21 | -10 | 16 | -28 |
| 4500 | 92 | 7 | 5850 | 120 | 9 | -5 | 7 | -6 | -7 | 10 | -8 |
| 4489 | 125 | -6 | 5836 | 163 | -8 | 46 | 15 | -7 | 60 | 19 | -9 |
| 1532 | -17 | -20 | 1992 | -23 | -26 | -15 | 12 | -9 | -19 | 16 | -12 |
| 1876 | -19 | 7 | 2438 | -25 | 9 | -42 | 6 | 0 | -55 | 8 | 0 |
| 4126 | 123 | -98 | 5364 | 160 | -127 | -38 | 5 | -1 | -49 | 6 | -1 |
| 1867 | -34 | 7 | 2427 | -44 | 8 | -58 | 6 | 1 | -75 | 7 | 1 |
| 1491 | -32 | 8 | 1939 | -42 | 11 | 5 | 6 | 0 | 7 | 8 | 0 |
| 1935 | -58 | 97 | 2516 | -75 | 126 | -5 | 6 | -3 | -6 | 8 | -3 |
| 2249 | -40 | -71 | 2924 | -52 | -92 | -52 | 7 | -4 | -67 | 9 | -5 |
| 1890 | -61 | -28 | 2457 | -79 | -36 | 12 | 5 | -1 | 16 | 7 | -1 |
| 3570 | 27 | -97 | 4641 | 35 | -126 | -24 | 5 | 1 | -31 | 6 | 1 |
| 1264 | -20 | 9 | 1644 | -26 | 11 | -45 | 5 | 5 | -58 | 7 | 7 |
| 3881 | 112 | -6 | 5045 | 146 | -8 | -58 | 14 | -12 | -76 | 18 | -15 |
| 2862 | -21 | -59 | 3720 | -28 | -76 | -68 | 5 | 0 | -88 | 6 | 0 |
| 4710 | 133 | 30 | 6123 | 172 | 39 | -39 | 5 | 0 | -51 | 6 | 0 |
| 3557 | 99 | 105 | 4624 | 129 | 137 | -65 | 15 | -15 | -85 | 20 | -20 |
| 1749 | -15 | 74 | 2274 | -19 | 96 | 2 | 5 | 0 | 3 | 6 | -1 |
| 1695 | -31 | -48 | 2203 | -40 | -63 | -36 | 6 | 0 | -47 | 8 | 0 |
| 2511 | 6 | 110 | 3264 | 8 | 143 | -17 | 7 | 2 | -22 | 9 | 2 |
| 2366 | 32 | -67 | 3075 | 41 | -87 | -50 | 13 | -9 | -65 | 16 | -12 |
| 2586 | 23 | -197 | 3361 | 29 | -256 | -16 | 5 | -1 | -20 | 7 | -1 |
| 1800 | -26 | -8 | 2340 | -33 | -10 | -64 | 6 | 0 | -84 | 8 | 0 |
| 1619 | -5 | -25 | 2105 | -7 | -33 | -28 | 6 | 0 | -36 | 7 | 0 |
| 2940 | 53 | -86 | 3822 | 69 | -112 | -28 | 5 | 13 | -36 | 7 | 17 |
| 1854 | 33 | 92 | 2411 | 43 | 119 | 1 | 2 | 1 | 1 | 3 | 2 |
| 2225 | 8 | 94 | 2893 | 11 | 122 | 33 | 5 | 0 | 43 | 6 | 0 |
| 2979 | 52 | -5 | 3872 | 67 | -7 | 36 | 2 | -2 | 47 | 2 | -2 |
| 3979 | 86 | 115 | 5173 | 112 | 149 | -40 | 4 | 3 | -51 | 5 | 3 |
| 4106 | 56 | 67 | 5338 | 72 | 87 | 2 | 4 | -3 | 2 | 5 | -4 |
| 1563 | -16 | 13 | 2032 | -21 | 17 | -9 | 2 | 2 | -11 | 3 | 2 |
| 1228 | -24 | -39 | 1597 | -31 | -51 | 9 | 3 | -2 | 12 | 4 | -3 |
| 1619 | -9 | 27 | 2105 | -11 | 36 | -23 | 1 | -4 | -29 | 2 | -6 |
| 2657 | 3 | 131 | 3454 | 5 | 171 | 10 | 4 | 1 | 13 | 5 | 1 |
| 1818 | -10 | 29 | 2364 | -13 | 38 | -40 | -1 | -5 | -51 | -2 | -6 |
| 3952 | 131 | 29 | 5138 | 170 | 38 | -20 | 4 | -2 | -26 | 5 | -3 |
| 3825 | 148 | 83 | 4972 | 192 | 108 | -6 | 9 | 10 | -8 | 12 | 13 |
| 2616 | 42 | -25 | 3401 | 54 | -33 | 2 | 8 | 13 | 3 | 10 | 16 |
| 3004 | 76 | 21 | 3905 | 99 | 28 | -14 | 2 | -1 | -18 | 3 | -2 |
| 3439 | 51 | 71 | 4470 | 67 | 92 | 4 | 5 | 6 | 5 | 7 | 8 |
| 1863 | -48 | 17 | 2422 | -62 | 22 | -23 | 17 | 15 | -30 | 22 | 20 |

| | | | | | | | | | | | |
|------|------|------|------|------|------|-----|----|-----|-----|----|-----|
| 2030 | -28 | -20 | 2639 | -37 | -26 | 30 | 3 | -2 | 39 | 4 | -3 |
| 2689 | 56 | 37 | 3495 | 73 | 48 | 5 | 4 | -1 | 6 | 5 | -2 |
| 3211 | 62 | -92 | 4174 | 81 | -119 | -22 | 5 | 0 | -29 | 6 | 0 |
| 3871 | 66 | -11 | 5032 | 85 | -14 | -6 | 8 | 24 | -8 | 11 | 32 |
| 1774 | -11 | -28 | 2306 | -14 | -37 | -13 | 9 | 14 | -17 | 12 | 19 |
| 4654 | 126 | 232 | 6050 | 164 | 302 | 5 | 8 | 14 | 6 | 11 | 18 |
| 3994 | 156 | 93 | 5193 | 203 | 121 | 2 | 10 | 21 | 2 | 13 | 27 |
| 3980 | 47 | 66 | 5174 | 61 | 86 | 10 | 9 | -9 | 13 | 11 | -12 |
| 1922 | -12 | -43 | 2499 | -16 | -57 | 22 | 9 | -9 | 29 | 12 | -12 |
| 3166 | 41 | 104 | 4116 | 54 | 135 | -4 | 13 | -12 | -5 | 17 | -16 |
| 2504 | -3 | 98 | 3255 | -4 | 127 | -4 | 11 | -6 | -5 | 14 | -8 |
| 3583 | 42 | -36 | 4658 | 54 | -47 | -33 | 15 | -12 | -43 | 19 | -16 |
| 3411 | -65 | -187 | 4435 | -84 | -243 | -4 | 3 | 0 | -6 | 5 | 1 |
| 4281 | 221 | 17 | 5566 | 287 | 23 | -18 | 4 | -1 | -23 | 5 | -1 |
| 4866 | 59 | -369 | 6326 | 76 | -480 | -2 | 4 | 0 | -2 | 5 | 0 |
| 3443 | 71 | -71 | 4475 | 93 | -92 | -14 | 3 | -2 | -18 | 5 | -3 |
| 4000 | 86 | -125 | 5200 | 112 | -162 | -10 | 6 | -4 | -13 | 7 | -5 |
| 3787 | 148 | -89 | 4923 | 193 | -116 | 7 | 3 | -1 | 9 | 5 | -1 |
| 3557 | 145 | -59 | 4624 | 189 | -77 | -8 | 4 | -1 | -11 | 5 | -1 |
| 3388 | -108 | -157 | 4404 | -140 | -205 | -20 | 4 | 0 | -26 | 6 | 0 |
| 3983 | 155 | -59 | 5178 | 201 | -76 | -50 | 18 | -16 | -65 | 24 | -21 |
| 3574 | -99 | -143 | 4646 | -128 | -186 | -24 | 6 | -4 | -32 | 8 | -5 |
| 3179 | -103 | -17 | 4133 | -134 | -23 | -17 | 5 | -3 | -22 | 7 | -3 |
| 3718 | 80 | -92 | 4834 | 104 | -119 | -30 | 15 | -13 | -39 | 19 | -17 |
| 4633 | 135 | -46 | 6023 | 175 | -60 | 12 | 4 | 1 | 16 | 5 | 1 |
| 4075 | 1 | -232 | 5297 | 2 | -302 | -10 | 4 | 0 | -13 | 5 | 0 |
| 3979 | 214 | 16 | 5173 | 278 | 20 | -16 | 5 | -1 | -21 | 6 | -1 |
| 3214 | -108 | 27 | 4179 | -141 | 35 | -37 | 19 | -17 | -47 | 25 | -22 |
| 4019 | 9 | -278 | 5225 | 11 | -361 | 11 | 4 | 0 | 14 | 5 | 0 |
| 2758 | -93 | 30 | 3585 | -120 | 39 | -27 | 5 | -2 | -35 | 6 | -3 |
| 3555 | -92 | -58 | 4621 | -119 | -75 | -1 | 4 | 0 | -1 | 5 | 0 |
| 4805 | 61 | -413 | 6247 | 79 | -537 | -35 | 17 | 12 | -45 | 21 | 15 |
| 3826 | 206 | -59 | 4974 | 268 | -77 | 18 | 3 | -1 | 23 | 3 | -1 |
| 4445 | 57 | -112 | 5778 | 74 | -146 | 10 | 3 | 0 | 13 | 4 | 0 |
| 3990 | 188 | -41 | 5187 | 245 | -54 | 7 | 3 | 0 | 10 | 5 | 0 |
| 2691 | -85 | 48 | 3498 | -111 | 63 | -3 | 6 | 3 | -4 | 8 | 4 |
| 3110 | 54 | 89 | 4042 | 71 | 116 | -17 | 3 | 0 | -22 | 4 | 0 |
| 4413 | 117 | 272 | 5737 | 152 | 354 | 4 | 7 | 4 | 5 | 9 | 5 |
| 4676 | 97 | 178 | 6078 | 126 | 231 | 21 | 3 | -1 | 27 | 4 | -2 |
| 4502 | 106 | 126 | 5853 | 138 | 164 | -18 | 4 | 2 | -24 | 5 | 2 |
| 1686 | -33 | 25 | 2192 | -43 | 33 | 19 | 4 | -1 | 24 | 5 | -1 |
| 1882 | -37 | -51 | 2446 | -48 | -67 | -17 | 7 | 4 | -22 | 9 | 5 |
| 3243 | 29 | -21 | 4216 | 37 | -27 | 1 | 3 | 1 | 2 | 4 | 1 |
| 2244 | -27 | 67 | 2917 | -35 | 87 | 2 | 11 | 7 | 3 | 14 | 9 |
| 1730 | -15 | 15 | 2249 | -20 | 19 | 8 | 11 | 7 | 10 | 14 | 9 |
| 1419 | -18 | -29 | 1845 | -23 | -38 | 2 | 3 | 0 | 2 | 4 | 0 |
| 2534 | 59 | 69 | 3294 | 77 | 90 | 7 | 5 | 5 | 9 | 7 | 6 |

| | | | | | | | | | | | |
|------|-----|------|------|-----|------|------|------|-----|------|------|-----|
| 1174 | -23 | 18 | 1526 | -29 | 24 | -10 | 14 | 10 | -13 | 18 | 13 |
| 1043 | -24 | -29 | 1356 | -32 | -38 | 10 | 3 | 1 | 13 | 4 | 1 |
| 1484 | -52 | 25 | 1929 | -67 | 32 | -17 | 2 | 1 | -22 | 3 | 2 |
| 2191 | -11 | 78 | 2848 | -15 | 101 | -3 | 3 | 0 | -4 | 4 | 0 |
| 2400 | -7 | 91 | 3120 | -9 | 118 | 266 | -48 | -16 | 345 | -62 | -21 |
| 3009 | 73 | -141 | 3912 | 95 | -183 | 84 | 0 | 7 | 109 | 0 | 9 |
| 2724 | 41 | 12 | 3541 | 53 | 16 | 241 | -44 | 20 | 314 | -57 | 26 |
| 2834 | 70 | -31 | 3684 | 91 | -40 | 193 | -6 | -2 | 251 | -7 | -2 |
| 2746 | 30 | 8 | 3570 | 39 | 11 | -145 | -174 | -17 | -189 | -226 | -22 |
| 2498 | -5 | 78 | 3248 | -7 | 101 | 109 | -179 | -21 | 142 | -233 | -28 |
| 3075 | 63 | -160 | 3997 | 82 | -209 | 68 | 5 | 1 | 89 | 7 | 2 |
| 3237 | 66 | -106 | 4208 | 86 | -137 | 54 | 4 | -2 | 70 | 5 | -3 |
| 4169 | 40 | -28 | 5420 | 52 | -37 | 51 | 5 | -2 | 66 | 7 | -2 |
| 3266 | 32 | -91 | 4246 | 42 | -118 | 282 | -152 | 58 | 367 | -198 | 76 |
| 3617 | 56 | 21 | 4701 | 72 | 27 | -59 | -3 | 6 | -76 | -4 | 8 |
| 2155 | -5 | 10 | 2801 | -7 | 14 | 121 | -9 | -13 | 157 | -11 | -17 |
| 4401 | 32 | -13 | 5722 | 42 | -17 | 25 | 2 | -10 | 32 | 2 | -13 |
| 4789 | 89 | 156 | 6226 | 116 | 203 | 108 | 1 | -6 | 141 | 1 | -8 |
| 3014 | 64 | 143 | 3918 | 83 | 186 | 74 | 4 | 2 | 96 | 5 | 3 |
| 1301 | -35 | -59 | 1691 | -45 | -76 | 23 | 0 | -3 | 30 | 0 | -4 |
| 2894 | 62 | 140 | 3762 | 81 | 181 | 273 | -9 | 20 | 355 | -12 | 26 |
| 1593 | -42 | -54 | 2070 | -55 | -70 | 121 | -2 | -2 | 158 | -3 | -3 |
| 2002 | -28 | 21 | 2602 | -37 | 27 | 73 | 1 | -6 | 95 | 1 | -7 |
| 1669 | -30 | -70 | 2170 | -39 | -90 | 282 | -161 | 44 | 367 | -210 | 58 |
| 4296 | 31 | 39 | 5585 | 40 | 51 | 350 | -21 | 22 | 456 | -28 | 28 |
| 1545 | -16 | -9 | 2008 | -21 | -12 | 161 | -22 | -25 | 209 | -29 | -33 |
| 2302 | -11 | -31 | 2993 | -14 | -40 | 266 | -47 | 5 | 346 | -61 | 7 |
| 2465 | -23 | -55 | 3204 | -30 | -72 | 40 | -1 | -2 | 52 | -1 | -2 |
| 4567 | 99 | -152 | 5937 | 128 | -197 | 296 | -36 | -25 | 384 | -47 | -32 |
| 3601 | 96 | -63 | 4681 | 125 | -81 | -217 | -167 | -19 | -282 | -217 | -25 |
| 4021 | 102 | 88 | 5228 | 133 | 114 | 9 | -6 | -3 | 11 | -8 | -4 |
| 3712 | 107 | 72 | 4826 | 139 | 93 | 270 | -42 | 22 | 351 | -54 | 28 |
| 1439 | -35 | 76 | 1871 | -46 | 98 | -4 | -148 | 57 | -5 | -193 | 74 |
| 1944 | -50 | -28 | 2527 | -65 | -36 | 414 | -55 | 20 | 539 | -71 | 26 |
| 5294 | 110 | 45 | 6882 | 143 | 58 | -439 | -165 | -40 | -570 | -214 | -52 |
| 1909 | -11 | -4 | 2482 | -14 | -5 | 83 | -14 | 16 | 108 | -18 | 21 |
| 4783 | 125 | 77 | 6218 | 163 | 100 | 121 | 0 | 0 | 158 | 0 | 0 |
| 4482 | 129 | 76 | 5826 | 168 | 99 | 81 | -4 | -7 | 105 | -6 | -9 |
| 3129 | 44 | -27 | 4068 | 57 | -36 | 77 | -1 | 5 | 101 | -1 | 7 |
| 1563 | -22 | 21 | 2031 | -28 | 28 | -48 | -146 | 10 | -63 | -190 | 13 |
| 2010 | -35 | -15 | 2613 | -46 | -20 | 45 | 2 | -4 | 58 | 3 | -5 |
| 5046 | 117 | -21 | 6560 | 153 | -27 | 110 | -8 | -6 | 144 | -10 | -7 |
| 4588 | 107 | -147 | 5965 | 138 | -191 | 65 | -6 | -6 | 84 | -7 | -8 |
| 4601 | 113 | -119 | 5982 | 146 | -154 | 233 | -16 | -15 | 303 | -21 | -19 |
| 1590 | -63 | -36 | 2067 | -82 | -46 | 276 | -85 | 26 | 358 | -110 | 33 |
| 3269 | 51 | -48 | 4250 | 66 | -62 | 334 | -112 | 94 | 434 | -145 | 122 |
| 3098 | 48 | -157 | 4027 | 63 | -204 | 193 | -3 | 93 | 251 | -4 | 121 |

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|-----|------|------|-----|
| 1113 | -21 | -12 | 1448 | -27 | -15 | 96 | 3 | -5 | 124 | 4 | -6 |
| 2570 | -22 | -64 | 3341 | -28 | -83 | -1 | 6 | -8 | -1 | 8 | -10 |
| 1847 | -51 | -24 | 2401 | -67 | -31 | 42 | 6 | 0 | 55 | 7 | -1 |
| 4824 | 138 | 78 | 6271 | 180 | 101 | 63 | 25 | -66 | 83 | 33 | -85 |
| 1720 | -30 | 64 | 2236 | -39 | 84 | 56 | 5 | 1 | 73 | 7 | 1 |
| 4034 | 97 | 149 | 5245 | 127 | 193 | 121 | 38 | 9 | 157 | 50 | 12 |
| 2498 | -20 | -69 | 3248 | -26 | -90 | 100 | 3 | -3 | 130 | 4 | -4 |
| 4001 | 105 | 133 | 5201 | 137 | 173 | -531 | -70 | 142 | -690 | -91 | 185 |
| 4086 | 106 | -127 | 5311 | 138 | -165 | -10 | -101 | 78 | -13 | -131 | 102 |
| 4002 | 99 | -148 | 5203 | 129 | -193 | 181 | 47 | 11 | 236 | 61 | 14 |
| 1263 | -42 | 45 | 1642 | -55 | 58 | -48 | -11 | -20 | -62 | -14 | -26 |
| 3119 | 34 | -6 | 4054 | 44 | -8 | 99 | -3 | 14 | 129 | -4 | 19 |
| 3544 | 95 | -109 | 4607 | 123 | -141 | 49 | 7 | -15 | 63 | 9 | -20 |
| 1848 | -35 | 11 | 2402 | -46 | 14 | 60 | 2 | 7 | 78 | 2 | 9 |
| 4575 | 152 | -40 | 5948 | 198 | -52 | 92 | 4 | -2 | 120 | 5 | -3 |
| 5322 | 145 | -95 | 6919 | 189 | -124 | 84 | 2 | -1 | 109 | 3 | -1 |
| 4972 | 95 | 232 | 6464 | 123 | 302 | 295 | -155 | 2 | 383 | -202 | 3 |
| 3896 | -42 | 104 | 5064 | -55 | 135 | 195 | -70 | 36 | 253 | -91 | 47 |
| 4219 | -105 | 221 | 5485 | -136 | 287 | -184 | -132 | 61 | -239 | -172 | 79 |
| 4529 | 119 | 125 | 5887 | 155 | 163 | 78 | 3 | -3 | 101 | 3 | -3 |
| 4188 | -105 | 242 | 5445 | -136 | 315 | 71 | -3 | -13 | 92 | -3 | -17 |
| 4730 | 163 | -80 | 6148 | 212 | -104 | -18 | -5 | -9 | -23 | -6 | -12 |
| 4625 | 127 | 126 | 6012 | 166 | 164 | 215 | -7 | -4 | 280 | -9 | -6 |
| 3392 | -97 | 114 | 4410 | -126 | 148 | 29 | 0 | 5 | 37 | 0 | 6 |
| 4450 | 144 | -42 | 5786 | 187 | -54 | 376 | -102 | 94 | 489 | -132 | 122 |
| 5554 | 102 | 241 | 7221 | 133 | 313 | 22 | -3 | 9 | 29 | -4 | 12 |
| 3742 | 149 | -9 | 4865 | 194 | -12 | 3 | -6 | -18 | 4 | -8 | -23 |
| 2709 | -70 | -35 | 3522 | -91 | -45 | 323 | -112 | 13 | 420 | -146 | 17 |
| 3540 | 153 | 72 | 4602 | 199 | 94 | 18 | -4 | 6 | 24 | -5 | 8 |
| 4151 | 129 | 53 | 5396 | 168 | 69 | 39 | 2 | 2 | 51 | 3 | 2 |
| 3616 | 27 | -262 | 4701 | 35 | -340 | 113 | -11 | -9 | 147 | -15 | -12 |
| 3369 | -76 | -181 | 4380 | -99 | -236 | 63 | 4 | 3 | 81 | 5 | 4 |
| 3637 | 68 | -102 | 4728 | 88 | -133 | 71 | 5 | 0 | 92 | 6 | -1 |
| 2886 | 16 | -169 | 3752 | 20 | -219 | -575 | 69 | 105 | -748 | 89 | 136 |
| 2130 | -19 | 27 | 2768 | -25 | 35 | 78 | -86 | 50 | 101 | -112 | 65 |
| 3255 | 54 | 46 | 4232 | 71 | 60 | 132 | -1 | 0 | 171 | -2 | 1 |
| 1988 | -3 | -19 | 2584 | -4 | -25 | 284 | -87 | 15 | 369 | -113 | 19 |
| 1616 | -20 | -23 | 2100 | -26 | -30 | 41 | -66 | -9 | 53 | -86 | -11 |
| 1761 | -2 | -44 | 2289 | -2 | -58 | 165 | -4 | 4 | 215 | -6 | 5 |
| 3619 | 60 | 121 | 4705 | 78 | 157 | 52 | 1 | -1 | 68 | 1 | -1 |
| 2454 | 37 | 73 | 3190 | 48 | 94 | 174 | -6 | -11 | 226 | -8 | -14 |
| 2832 | 17 | -2 | 3682 | 23 | -2 | 45 | 3 | -4 | 59 | 4 | -5 |
| 2794 | 0 | 86 | 3632 | 0 | 111 | 38 | 1 | 5 | 49 | 1 | 7 |
| 2201 | 41 | 78 | 2862 | 54 | 102 | 368 | -92 | 3 | 479 | -120 | 4 |
| 3973 | 97 | -43 | 5164 | 127 | -56 | 44 | 1 | -6 | 57 | 1 | -7 |
| 3526 | 97 | 18 | 4584 | 126 | 24 | 33 | -149 | 75 | 43 | -194 | 97 |
| 2725 | 39 | -81 | 3543 | 50 | -105 | -10 | 1 | 18 | -14 | 1 | 23 |

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|-----|------|------|------|
| 1807 | -25 | -7 | 2349 | -32 | -10 | 229 | -12 | -11 | 298 | -16 | -15 |
| 2068 | -18 | 67 | 2689 | -23 | 87 | 57 | 3 | 1 | 74 | 3 | 1 |
| 4216 | 80 | 78 | 5481 | 104 | 102 | 239 | -162 | 40 | 311 | -211 | 52 |
| 2500 | -33 | -72 | 3250 | -43 | -93 | 194 | -186 | 22 | 252 | -242 | 28 |
| 3592 | 82 | 24 | 4670 | 106 | 32 | 264 | -77 | 103 | 343 | -100 | 134 |
| 3902 | 95 | 79 | 5073 | 124 | 103 | 216 | -94 | 47 | 281 | -123 | 61 |
| 1953 | -42 | 19 | 2539 | -54 | 25 | 150 | -31 | 34 | 195 | -41 | 45 |
| 4230 | 119 | -51 | 5500 | 155 | -66 | 177 | -14 | -16 | 230 | -18 | -20 |
| 1763 | -17 | 49 | 2293 | -22 | 63 | 309 | -24 | -8 | 401 | -31 | -10 |
| 1565 | -14 | 37 | 2034 | -19 | 48 | 59 | 1 | -2 | 76 | 2 | -3 |
| 2082 | -30 | 0 | 2707 | -39 | 0 | 81 | 1 | -3 | 105 | 1 | -4 |
| 4682 | 91 | -34 | 6086 | 118 | -45 | 128 | -5 | -7 | 166 | -7 | -9 |
| 4291 | 90 | -77 | 5578 | 118 | -100 | 209 | -22 | -1 | 272 | -29 | -2 |
| 3525 | 43 | -81 | 4583 | 56 | -106 | 103 | -10 | 8 | 133 | -13 | 11 |
| 2464 | -32 | -53 | 3203 | -42 | -69 | -7 | -6 | 3 | -10 | -8 | 4 |
| 1608 | -32 | -2 | 2091 | -42 | -3 | 60 | -14 | 13 | 79 | -18 | 17 |
| 3976 | 93 | 62 | 5168 | 120 | 81 | 132 | -41 | -20 | 172 | -53 | -26 |
| 3609 | 57 | -110 | 4692 | 74 | -143 | 3 | -30 | 9 | 4 | -39 | 11 |
| 4530 | 144 | -35 | 5889 | 187 | -45 | 12 | -163 | -99 | 16 | -212 | -129 |
| 3589 | 88 | -82 | 4666 | 115 | -107 | -98 | -3 | -8 | -128 | -3 | -11 |
| 1757 | -53 | 31 | 2284 | -68 | 40 | -39 | -4 | 8 | -50 | -5 | 10 |
| 4336 | 137 | 40 | 5637 | 177 | 51 | 44 | 2 | 0 | 57 | 3 | 0 |
| 4581 | 169 | -15 | 5955 | 220 | -19 | 46 | 2 | 0 | 60 | 3 | 0 |
| 3376 | -76 | 217 | 4389 | -99 | 283 | -193 | -190 | 12 | -251 | -247 | 16 |
| 4004 | -92 | 441 | 5206 | -120 | 574 | -117 | -10 | 6 | -152 | -13 | 8 |
| 3945 | 141 | -56 | 5128 | 183 | -72 | -130 | -21 | 7 | -169 | -27 | 9 |
| 4531 | 115 | 136 | 5891 | 150 | 176 | 48 | -38 | 16 | 62 | -50 | 21 |
| 5323 | -41 | 247 | 6920 | -53 | 321 | -35 | -76 | -3 | -46 | -99 | -4 |
| 4352 | -159 | 230 | 5658 | -206 | 299 | -145 | -36 | 2 | -188 | -47 | 2 |
| 5294 | -110 | 83 | 6882 | -143 | 107 | -28 | 7 | 10 | -36 | 10 | 13 |
| 6321 | -63 | 145 | 8217 | -82 | 188 | -51 | -16 | 17 | -66 | -21 | 22 |
| 5568 | 96 | -4 | 7239 | 125 | -6 | -10 | -11 | 9 | -13 | -15 | 12 |
| 5138 | 104 | 293 | 6679 | 136 | 380 | 17 | -9 | -1 | 23 | -11 | -2 |
| 4999 | 139 | -156 | 6498 | 180 | -203 | 317 | -64 | -48 | 412 | -83 | -62 |
| 5048 | 118 | -32 | 6562 | 154 | -42 | 29 | 2 | 0 | 38 | 3 | 0 |
| 5064 | 169 | -210 | 6584 | 220 | -273 | 66 | 1 | 3 | 86 | 1 | 4 |
| 5050 | 137 | -114 | 6566 | 179 | -148 | 76 | -1 | -4 | 99 | -1 | -6 |
| 4616 | -65 | 210 | 6001 | -85 | 274 | 76 | 25 | 87 | 99 | 32 | 113 |
| 5402 | 103 | -13 | 7023 | 134 | -17 | 168 | -130 | -27 | 218 | -169 | -35 |
| 3668 | -41 | 139 | 4769 | -53 | 181 | 11 | -105 | -23 | 14 | -137 | -30 |
| 6849 | 23 | 26 | 8904 | 30 | 33 | 41 | 2 | 0 | 53 | 3 | 0 |
| 5113 | 44 | 225 | 6647 | 57 | 293 | -334 | -188 | 22 | -434 | -245 | 29 |
| 1439 | -35 | 58 | 1870 | -46 | 75 | 33 | -24 | 9 | 42 | -32 | 12 |
| 1268 | -30 | 74 | 1649 | -39 | 96 | 57 | -13 | 3 | 74 | -17 | 4 |
| 3250 | 109 | 34 | 4225 | 142 | 44 | 8 | 5 | 6 | 11 | 6 | 7 |
| 1805 | 15 | -71 | 2347 | 19 | -92 | -16 | 4 | 0 | -21 | 5 | 0 |
| 1312 | -28 | -28 | 1706 | -37 | -37 | 87 | -79 | -11 | 113 | -102 | -15 |

| | | | | | | | | | | | |
|------|-----|------|------|-----|------|------|------|------|------|------|------|
| 4639 | 92 | -18 | 6031 | 119 | -23 | 69 | 36 | -13 | 90 | 47 | -17 |
| 1503 | -49 | -7 | 1954 | -63 | -9 | -100 | -186 | -66 | -130 | -242 | -85 |
| 1502 | -49 | -6 | 1953 | -64 | -8 | 18 | 0 | 1 | 24 | 0 | 1 |
| 3097 | 107 | 41 | 4026 | 139 | 53 | 14 | 7 | 1 | 18 | 9 | 1 |
| 1962 | -14 | -32 | 2550 | -18 | -42 | -66 | 0 | -6 | -86 | 1 | -8 |
| 2787 | 69 | -56 | 3623 | 90 | -73 | 294 | 12 | -138 | 383 | 16 | -179 |
| 3263 | 106 | 79 | 4242 | 138 | 102 | 213 | -1 | -30 | 277 | -1 | -39 |
| 2956 | 105 | -68 | 3843 | 136 | -88 | -109 | -85 | -2 | -142 | -111 | -3 |
| 4858 | 103 | 6 | 6315 | 135 | 8 | -84 | -8 | 1 | -110 | -10 | 1 |
| 1742 | -24 | -45 | 2265 | -31 | -58 | 171 | -44 | -9 | 223 | -57 | -11 |
| 4485 | 62 | -148 | 5831 | 81 | -193 | -61 | -12 | 3 | -79 | -15 | 4 |
| 4391 | 37 | 14 | 5708 | 48 | 18 | -5 | 3 | 9 | -6 | 3 | 12 |
| 2034 | -4 | -29 | 2645 | -5 | -38 | -150 | -66 | -94 | -195 | -86 | -123 |
| 2274 | 79 | -143 | 2956 | 103 | -187 | 110 | 17 | -15 | 143 | 22 | -19 |
| 2917 | 67 | -69 | 3793 | 88 | -90 | 42 | -14 | -24 | 55 | -18 | -32 |
| 2811 | 101 | -66 | 3654 | 132 | -85 | 300 | -70 | -91 | 390 | -90 | -118 |
| 1944 | 83 | 86 | 2528 | 108 | 112 | 235 | -80 | 29 | 306 | -105 | 37 |
| 1181 | -27 | 16 | 1535 | -35 | 20 | 78 | -100 | -16 | 101 | -130 | -20 |
| 1371 | -35 | 41 | 1783 | -45 | 54 | -21 | 0 | 8 | -27 | 0 | 11 |
| 1804 | -37 | -15 | 2345 | -48 | -20 | -23 | 3 | -3 | -30 | 4 | -4 |
| 4505 | 38 | 15 | 5856 | 50 | 19 | 46 | 6 | -2 | 60 | 8 | -3 |
| 2972 | 95 | -27 | 3864 | 123 | -35 | 49 | 5 | 3 | 64 | 6 | 4 |
| 4610 | 90 | 122 | 5992 | 118 | 158 | 116 | 0 | -59 | 151 | 0 | -77 |
| 5001 | 96 | 5 | 6501 | 124 | 7 | -133 | -122 | -29 | -173 | -159 | -38 |
| 1863 | -25 | -53 | 2422 | -32 | -68 | 101 | -87 | -137 | 131 | -114 | -178 |
| 2277 | -4 | -17 | 2961 | -5 | -22 | 149 | -148 | 3 | 193 | -193 | 5 |
| 3267 | 96 | -66 | 4247 | 124 | -86 | -214 | -150 | -119 | -278 | -195 | -155 |
| 4799 | 93 | 70 | 6239 | 121 | 91 | 37 | -12 | -2 | 49 | -16 | -3 |
| 1624 | -37 | 21 | 2111 | -48 | 27 | 48 | 5 | 7 | 63 | 6 | 10 |
| 2719 | 45 | -150 | 3535 | 59 | -195 | 54 | 7 | -1 | 70 | 9 | -1 |
| 1305 | -44 | -15 | 1697 | -57 | -20 | 45 | 4 | 2 | 58 | 5 | 3 |
| 3526 | 70 | 79 | 4583 | 91 | 103 | 54 | 3 | 2 | 70 | 4 | 2 |
| 1573 | -20 | -40 | 2045 | -26 | -52 | 173 | -85 | -41 | 224 | -110 | -53 |
| 1699 | -16 | 10 | 2208 | -21 | 14 | -23 | 1 | 2 | -30 | 1 | 3 |
| 4537 | 118 | 67 | 5897 | 154 | 87 | -36 | 9 | 3 | -47 | 12 | 4 |
| 1414 | -27 | 16 | 1838 | -35 | 21 | 136 | -71 | -9 | 176 | -92 | -12 |
| 3780 | 76 | -164 | 4914 | 98 | -214 | -285 | -143 | -116 | -371 | -186 | -150 |
| 3837 | 86 | 86 | 4988 | 112 | 112 | -113 | -90 | -120 | -147 | -117 | -156 |
| 3364 | 68 | 77 | 4373 | 88 | 100 | 34 | 8 | 2 | 45 | 10 | 3 |
| 2523 | 3 | -18 | 3279 | 4 | -23 | 269 | 145 | -21 | 350 | 189 | -27 |
| 1948 | -3 | 30 | 2532 | -4 | 39 | 107 | 28 | 4 | 139 | 37 | 5 |
| 4000 | 105 | -156 | 5200 | 136 | -203 | 20 | 0 | 3 | 26 | 0 | 4 |
| 3807 | 104 | 63 | 4949 | 135 | 82 | -1 | -4 | 14 | -1 | -5 | 18 |
| 1881 | -3 | 5 | 2445 | -3 | 6 | -1 | -5 | 3 | -1 | -7 | 4 |
| 2840 | 57 | 47 | 3692 | 74 | 60 | -46 | -6 | -1 | -60 | -8 | -1 |
| 3065 | -23 | 91 | 3984 | -29 | 118 | 126 | -62 | 36 | 164 | -80 | 47 |
| 3020 | 10 | 83 | 3926 | 13 | 108 | -57 | 5 | 18 | -75 | 7 | 23 |

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 2261 | -4 | -10 | 2940 | -5 | -14 | -11 | -4 | 2 | -15 | -6 | 2 |
| 2803 | 4 | 39 | 3643 | 5 | 51 | -5 | -34 | 21 | -6 | -45 | 27 |
| 1694 | 5 | 87 | 2203 | 7 | 113 | 76 | -10 | 10 | 99 | -14 | 13 |
| 1687 | -15 | 54 | 2194 | -19 | 71 | 120 | 2 | 43 | 156 | 2 | 57 |
| 1697 | -15 | 46 | 2206 | -20 | 59 | 59 | 5 | -7 | 77 | 7 | -10 |
| 4282 | 86 | 154 | 5567 | 111 | 201 | 238 | -121 | 14 | 309 | -158 | 18 |
| 4186 | 128 | 131 | 5442 | 167 | 170 | 225 | -96 | -3 | 292 | -125 | -4 |
| 4962 | 110 | -52 | 6450 | 143 | -67 | 25 | 4 | -5 | 33 | 5 | -7 |
| 4476 | 111 | 128 | 5818 | 145 | 166 | 12 | -150 | -57 | 15 | -195 | -74 |
| 3003 | 46 | 0 | 3904 | 60 | 0 | 2 | -5 | -11 | 3 | -6 | -14 |
| 1339 | -21 | 13 | 1741 | -27 | 17 | -139 | -196 | 42 | -181 | -255 | 55 |
| 1941 | 9 | -81 | 2524 | 11 | -106 | -33 | 3 | 2 | -43 | 4 | 2 |
| 2213 | -16 | 47 | 2877 | -21 | 61 | 30 | 6 | -4 | 39 | 8 | -6 |
| 1900 | -24 | 92 | 2470 | -32 | 120 | -31 | 12 | -3 | -40 | 16 | -4 |
| 4044 | 48 | 15 | 5257 | 63 | 20 | 163 | -179 | -4 | 212 | -233 | -6 |
| 2918 | 69 | -64 | 3794 | 89 | -83 | -62 | -9 | 13 | -81 | -12 | 16 |
| 4229 | 120 | 65 | 5497 | 156 | 85 | -54 | -3 | 3 | -70 | -4 | 4 |
| 1236 | -36 | -66 | 1607 | -47 | -86 | -86 | 2 | 1 | -112 | 3 | 1 |
| 1735 | -15 | -33 | 2256 | -20 | -43 | -4 | -2 | 3 | -5 | -2 | 4 |
| 4317 | 127 | 74 | 5612 | 165 | 96 | -42 | -76 | -20 | -54 | -99 | -25 |
| 4455 | 165 | -67 | 5792 | 214 | -87 | 33 | 8 | 2 | 43 | 10 | 2 |
| 5208 | 66 | -66 | 6770 | 86 | -86 | 48 | 7 | -5 | 63 | 9 | -6 |
| 4375 | -114 | -302 | 5688 | -149 | -393 | 31 | 2 | 2 | 40 | 2 | 3 |
| 4608 | 156 | -80 | 5991 | 203 | -104 | 95 | -32 | 1 | 124 | -42 | 1 |
| 3467 | -91 | -117 | 4507 | -118 | -152 | 44 | 7 | -100 | 57 | 9 | -130 |
| 4835 | -3 | 17 | 6285 | -4 | 22 | 78 | -5 | -21 | 101 | -7 | -27 |
| 3563 | -81 | -312 | 4632 | -105 | -406 | 13 | -7 | 15 | 17 | -9 | 19 |
| 5880 | 3 | 126 | 7644 | 3 | 163 | -13 | 29 | 54 | -17 | 38 | 71 |
| 4053 | 75 | -20 | 5269 | 97 | -26 | -31 | 18 | -46 | -40 | 24 | -60 |
| 4827 | 206 | -73 | 6275 | 268 | -95 | 23 | -8 | 17 | 29 | -10 | 22 |
| 4664 | 81 | -110 | 6064 | 105 | -143 | -167 | -35 | -13 | -217 | -45 | -17 |
| 4821 | 66 | -322 | 6267 | 85 | -418 | -4 | 0 | -24 | -5 | 0 | -31 |
| 4354 | 42 | -323 | 5660 | 54 | -420 | 29 | 6 | 6 | 38 | 8 | 8 |
| 4862 | 170 | 84 | 6321 | 221 | 109 | 14 | -6 | -3 | 19 | -8 | -4 |
| 4975 | 226 | 15 | 6467 | 293 | 20 | 202 | 29 | 95 | 263 | 38 | 124 |
| 4206 | 83 | -124 | 5468 | 107 | -162 | -52 | 42 | -60 | -68 | 54 | -78 |
| 3501 | -115 | -157 | 4551 | -149 | -204 | 186 | 3 | 61 | 242 | 4 | 79 |
| 4149 | 141 | -28 | 5394 | 184 | -37 | 193 | -13 | -25 | 250 | -17 | -32 |
| 4361 | 166 | -19 | 5669 | 216 | -25 | 216 | -36 | 20 | 281 | -47 | 26 |
| 5002 | -9 | 533 | 6503 | -12 | 693 | 182 | -43 | 9 | 237 | -56 | 11 |
| 4613 | 33 | 335 | 5997 | 44 | 435 | -1 | 4 | 19 | -1 | 5 | 25 |
| 6161 | 209 | -155 | 8010 | 271 | -201 | 224 | -14 | 37 | 292 | -18 | 48 |
| 5092 | 166 | 89 | 6620 | 216 | 115 | 81 | 24 | -2 | 105 | 31 | -2 |
| 3879 | 137 | -119 | 5043 | 179 | -155 | 87 | -7 | 10 | 113 | -9 | 13 |
| 5108 | 183 | -33 | 6641 | 238 | -43 | 260 | -59 | 41 | 337 | -77 | 53 |
| 5186 | 177 | 73 | 6742 | 230 | 95 | 119 | -74 | 34 | 155 | -96 | 44 |
| 5347 | -28 | 450 | 6952 | -36 | 585 | 50 | -94 | 61 | 65 | -122 | 79 |

| | | | | | | | | | | | |
|------|-----|------|------|-----|------|-------|-----|------|-------|------|------|
| 4623 | 43 | 352 | 6010 | 56 | 458 | -292 | -18 | 41 | -380 | -23 | 53 |
| 5376 | 133 | -3 | 6988 | 173 | -3 | -780 | -10 | -12 | -1014 | -13 | -15 |
| 5240 | 112 | -8 | 6812 | 146 | -11 | 192 | -12 | 16 | 250 | -16 | 21 |
| 3147 | 42 | -105 | 4091 | 55 | -137 | 147 | -6 | 13 | 191 | -7 | 17 |
| 3177 | 28 | -114 | 4130 | 37 | -149 | 192 | -16 | 21 | 250 | -21 | 28 |
| 1132 | -28 | 7 | 1471 | -36 | 8 | 76 | -5 | 10 | 99 | -6 | 14 |
| 1729 | -15 | -37 | 2247 | -19 | -48 | -30 | -83 | 17 | -39 | -108 | 21 |
| 5165 | 92 | -51 | 6714 | 119 | -67 | 267 | -14 | 16 | 347 | -18 | 21 |
| 4080 | 120 | -12 | 5304 | 156 | -15 | 121 | -4 | 14 | 157 | -5 | 18 |
| 1271 | -27 | 7 | 1652 | -35 | 9 | -292 | -36 | -23 | -380 | -46 | -30 |
| 1680 | -24 | -17 | 2184 | -32 | -22 | -540 | -16 | -12 | -702 | -21 | -16 |
| 5003 | 95 | -76 | 6504 | 123 | -99 | -458 | -48 | -25 | -595 | -63 | -33 |
| 2257 | -28 | 5 | 2934 | -36 | 6 | -275 | -45 | -21 | -358 | -58 | -27 |
| 1964 | -57 | -11 | 2553 | -75 | -15 | -213 | -9 | -70 | -277 | -12 | -91 |
| 4151 | 131 | -8 | 5396 | 170 | -10 | -1138 | 62 | 48 | -1479 | 81 | 62 |
| 1724 | -41 | 3 | 2241 | -53 | 4 | -431 | -29 | -29 | -560 | -37 | -37 |
| 5163 | 92 | 86 | 6711 | 120 | 112 | -434 | 58 | 5 | -564 | 76 | 6 |
| 1417 | -49 | 81 | 1843 | -64 | 105 | 29 | -13 | 485 | 37 | -16 | 631 |
| 1262 | -37 | 53 | 1640 | -48 | 68 | -65 | 2 | -16 | -84 | 3 | -21 |
| 3961 | 103 | -136 | 5149 | 134 | -176 | -39 | 12 | -10 | -51 | 15 | -13 |
| 5449 | 98 | -70 | 7083 | 128 | -91 | -119 | -91 | 64 | -154 | -118 | 83 |
| 2377 | -10 | -64 | 3091 | -14 | -83 | -119 | -25 | 22 | -154 | -32 | 29 |
| 2881 | -6 | -89 | 3746 | -8 | -116 | 85 | -88 | 121 | 110 | -114 | 157 |
| 2229 | -51 | -87 | 2897 | -67 | -113 | -155 | -62 | 127 | -201 | -80 | 166 |
| 4452 | 115 | 59 | 5787 | 149 | 77 | -29 | -1 | -8 | -38 | -2 | -11 |
| 2001 | -53 | 40 | 2601 | -69 | 52 | -37 | 5 | -6 | -48 | 6 | -8 |
| 5122 | 137 | -58 | 6659 | 178 | -75 | -21 | 5 | -10 | -28 | 7 | -13 |
| 2221 | -51 | 23 | 2887 | -67 | 30 | 52 | -3 | -88 | 68 | -4 | -115 |
| 4281 | 115 | 113 | 5565 | 150 | 147 | -6 | -28 | 39 | -7 | -37 | 51 |
| 5000 | 126 | -28 | 6500 | 164 | -36 | 184 | -47 | -93 | 239 | -61 | -121 |
| 3315 | 53 | -91 | 4310 | 69 | -118 | 43 | -89 | 71 | 56 | -116 | 92 |
| 5271 | 115 | 89 | 6853 | 150 | 115 | -123 | 5 | 19 | -160 | 7 | 25 |
| 5142 | 117 | -84 | 6685 | 153 | -109 | -68 | 17 | -14 | -88 | 21 | -19 |
| 2682 | -17 | -75 | 3487 | -22 | -97 | 5 | 15 | 14 | 6 | 19 | 18 |
| 4295 | 141 | 17 | 5583 | 183 | 22 | -66 | -17 | -12 | -86 | -22 | -16 |
| 3849 | 111 | -111 | 5004 | 144 | -145 | -196 | 45 | 100 | -255 | 58 | 130 |
| 1895 | -40 | 9 | 2464 | -51 | 12 | -459 | -16 | -23 | -596 | -21 | -30 |
| 5198 | 124 | -18 | 6757 | 161 | -23 | -98 | 91 | -15 | -128 | 118 | -20 |
| 1187 | -35 | -23 | 1544 | -45 | -30 | -302 | 147 | 267 | -392 | 191 | 347 |
| 4801 | 162 | -42 | 6241 | 210 | -55 | 66 | -56 | -124 | 86 | -72 | -161 |
| 2114 | -20 | 121 | 2748 | -27 | 158 | -54 | -9 | 33 | -70 | -12 | 43 |
| 5184 | 127 | 164 | 6739 | 165 | 213 | 6 | 32 | -163 | 8 | 42 | -212 |
| 3093 | 45 | 40 | 4021 | 59 | 52 | -49 | 1 | -323 | -64 | 1 | -420 |
| 1815 | -23 | 96 | 2359 | -31 | 125 | -75 | 18 | 316 | -98 | 24 | 411 |
| 2290 | 3 | -44 | 2977 | 4 | -58 | 173 | -16 | -75 | 225 | -21 | -98 |
| 2137 | -4 | -101 | 2778 | -5 | -131 | 137 | -47 | 81 | 178 | -62 | 105 |
| 1497 | -26 | -7 | 1947 | -34 | -9 | -170 | -12 | -15 | -221 | -15 | -19 |

| | | | | | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 4583 | 98 | 7 | 5958 | 128 | 9 | -519 | 10 | -55 | -674 | 13 | -71 | |
| 4219 | 85 | 182 | 5484 | 110 | 236 | -744 | 66 | -2 | -967 | 85 | -2 | |
| 4435 | 83 | 191 | 5765 | 107 | 249 | -546 | -44 | -16 | -710 | -58 | -21 | |
| 2083 | 0 | -21 | 2708 | 0 | -27 | -418 | -68 | -15 | -543 | -88 | -20 | |
| 2432 | -9 | 98 | 3161 | -11 | 128 | -150 | -53 | -30 | -196 | -69 | -40 | |
| 3035 | 19 | 53 | 3945 | 24 | 69 | -184 | -43 | -22 | -239 | -56 | -28 | |
| 2483 | 30 | -25 | 3228 | 39 | -32 | -129 | -37 | -44 | -168 | -48 | -57 | |
| 3290 | 19 | 46 | 4277 | 25 | 60 | -205 | -48 | 10 | -267 | -63 | 13 | |
| 2739 | -10 | 72 | 3561 | -13 | 93 | 67 | 4 | 8 | 88 | 5 | 10 | |
| 1147 | -25 | 7 | 1491 | -33 | 9 | 87 | 4 | 3 | 113 | 5 | 4 | |
| 1430 | -24 | 12 | 1860 | -31 | 15 | 117 | 3 | 0 | 153 | 3 | 0 | |
| 1708 | -41 | -56 | 2221 | -53 | -73 | 186 | 0 | 11 | 242 | 1 | 14 | |
| 1569 | -46 | -38 | 2040 | -59 | -50 | 136 | 1 | 1 | 176 | 1 | 1 | |
| 4056 | 120 | -12 | 5273 | 156 | -16 | 307 | -63 | -33 | 400 | -82 | -42 | |
| 3283 | 69 | 115 | 4267 | 90 | 149 | 141 | -61 | 61 | 184 | -79 | 79 | |
| 3262 | 68 | 93 | 4240 | 89 | 121 | 59 | 19 | 5 | 77 | 25 | 7 | |
| 3703 | 95 | -10 | 4814 | 123 | -12 | -647 | 5 | -55 | -842 | 6 | -72 | |
| 3475 | 65 | -149 | 4518 | 85 | -194 | 265 | -21 | 31 | 345 | -28 | 41 | |
| 1396 | -46 | -22 | 1815 | -60 | -29 | 164 | -21 | 18 | 213 | -27 | 23 | |
| 1408 | -42 | -64 | 1830 | -55 | -83 | 38 | 34 | -31 | 50 | 45 | -40 | |
| 1664 | -23 | 15 | 2163 | -30 | 19 | 148 | -5 | 16 | 193 | -6 | 21 | |
| 4913 | 156 | -63 | 6387 | 202 | -82 | 235 | -4 | 14 | 306 | -5 | 19 | |
| 2042 | -21 | 108 | 2654 | -27 | 141 | 32 | -53 | 39 | 41 | -69 | 50 | |
| 3476 | 68 | 85 | 4519 | 89 | 111 | 433 | -22 | 64 | 562 | -28 | 84 | |
| 4586 | 150 | -51 | 5962 | 195 | -67 | -150 | -32 | -22 | -195 | -41 | -29 | |
| 3699 | 63 | -166 | 4809 | 82 | -215 | 92 | -2 | 2 | 120 | -3 | 3 | |
| 3791 | 53 | 5 | 4928 | 68 | 6 | -32 | 79 | -410 | -41 | 103 | -533 | |
| 5246 | 157 | 94 | 6820 | 204 | 122 | -170 | 21 | -197 | -221 | 27 | -256 | |
| 4071 | 63 | -193 | 5293 | 82 | -251 | -106 | 20 | -468 | -137 | 26 | -608 | |
| 4405 | 133 | -43 | 5727 | 172 | -56 | -131 | 25 | -19 | -170 | 32 | -25 | |
| 4616 | -53 | -310 | 6001 | -69 | -403 | -127 | 14 | -6 | -165 | 18 | -8 | |
| 5034 | 115 | -130 | 6544 | 150 | -169 | -89 | 4 | 3 | -115 | 5 | 4 | |
| 3557 | -116 | -25 | 4624 | -150 | -33 | -135 | 8 | 7 | -175 | 11 | 9 | |
| 4386 | 78 | -214 | 5702 | 101 | -278 | -161 | 19 | -16 | -210 | 25 | -21 | |
| 3803 | -114 | -49 | 4944 | -149 | -64 | -188 | 3 | 1 | -244 | 4 | 1 | |
| 3055 | -112 | -10 | 3972 | -146 | -13 | -121 | -2 | 1 | -157 | -3 | 2 | |
| 4762 | 148 | -25 | 6190 | 192 | -32 | -166 | 1 | 2 | -215 | 1 | 3 | |
| 4010 | 29 | -208 | 5213 | 37 | -270 | -99 | 4 | -5 | -128 | 5 | -6 | |
| 4132 | 143 | -26 | 5372 | 186 | -33 | -102 | 9 | -8 | -132 | 12 | -11 | |
| Calotta 70+10 | | | | | | | -144 | 23 | -18 | -187 | 30 | -23 |
| 1724 | 171 | -199 | 2241 | 222 | -259 | -125 | 11 | -19 | -162 | 14 | -24 | |
| 2492 | 185 | -203 | 3240 | 241 | -264 | -125 | 10 | -11 | -163 | 13 | -14 | |
| 1725 | -127 | -38 | 2243 | -165 | -49 | -109 | -1 | -5 | -141 | -1 | -7 | |
| 1880 | -150 | -42 | 2444 | -195 | -54 | -132 | 4 | -7 | -171 | 5 | -9 | |
| 1814 | 23 | -325 | 2359 | 30 | -423 | -171 | 3 | 3 | -222 | 3 | 4 | |
| 3948 | 131 | -43 | 5132 | 170 | -55 | -54 | 4 | 9 | -70 | 5 | 11 | |
| 1844 | -160 | -6 | 2397 | -208 | -7 | -64 | 5 | -1 | -84 | 6 | -2 | |

| | | | | | | | | | | | |
|------|------|------|------|------|------|-------|-----|-----|-------|-----|------|
| 1399 | -114 | 18 | 1818 | -149 | 23 | -160 | 4 | 10 | -209 | 5 | 13 |
| 1474 | -116 | 55 | 1917 | -151 | 72 | -66 | 32 | -19 | -86 | 41 | -25 |
| 1816 | -116 | -227 | 2361 | -151 | -295 | 5 | 1 | 4 | 7 | 2 | 6 |
| 1324 | -75 | -102 | 1722 | -97 | -133 | 10 | -1 | 7 | 13 | -1 | 9 |
| 1988 | 52 | -255 | 2584 | 67 | -332 | -3 | 3 | 1 | -4 | 4 | 1 |
| 2920 | 236 | 188 | 3796 | 307 | 244 | 40 | 18 | 21 | 52 | 23 | 27 |
| 1607 | -85 | -114 | 2089 | -110 | -149 | -2 | 16 | 13 | -3 | 20 | 17 |
| 1643 | 90 | -304 | 2136 | 117 | -395 | -4 | 7 | 5 | -5 | 9 | 7 |
| 1509 | 87 | -315 | 1962 | 113 | -410 | -77 | 2 | -6 | -100 | 3 | -8 |
| 6433 | 126 | -14 | 8363 | 163 | -19 | -19 | 1 | 0 | -25 | 2 | 0 |
| 1839 | -163 | -12 | 2391 | -212 | -16 | -74 | 4 | 0 | -96 | 6 | 0 |
| 3980 | 257 | 53 | 5174 | 334 | 69 | -16 | 4 | 3 | -21 | 5 | 4 |
| 1449 | 153 | -107 | 1883 | 199 | -139 | -37 | 3 | 1 | -48 | 4 | 2 |
| 1958 | 157 | -93 | 2545 | 205 | -120 | -77 | 7 | -5 | -100 | 10 | -7 |
| 1820 | -28 | -120 | 2366 | -36 | -156 | 2 | 1 | 2 | 3 | 1 | 3 |
| 1707 | 35 | -329 | 2220 | 46 | -427 | -48 | 5 | -2 | -62 | 6 | -2 |
| 1613 | -169 | 73 | 2097 | -219 | 95 | -53 | -2 | 0 | -70 | -2 | 1 |
| 1511 | 10 | -275 | 1964 | 13 | -357 | -126 | 11 | 0 | -164 | 14 | 1 |
| 1557 | -135 | -55 | 2024 | -175 | -71 | -24 | 4 | -3 | -31 | 6 | -4 |
| 1612 | -136 | -10 | 2096 | -177 | -13 | 9 | 17 | 18 | 11 | 21 | 24 |
| 2081 | -104 | -81 | 2705 | -135 | -105 | 45 | 6 | 15 | 59 | 8 | 20 |
| 1689 | -63 | -150 | 2196 | -82 | -195 | -10 | 4 | 2 | -12 | 5 | 3 |
| 1525 | -65 | -143 | 1982 | -85 | -186 | 39 | 7 | -13 | 51 | 9 | -16 |
| 2000 | -3 | -95 | 2600 | -4 | -123 | 71 | 13 | -28 | 93 | 16 | -37 |
| 1750 | 111 | -87 | 2275 | 144 | -113 | -5 | 18 | -18 | -6 | 23 | -23 |
| 1289 | -135 | 64 | 1675 | -175 | 84 | -38 | 3 | -2 | -50 | 4 | -3 |
| 1668 | -87 | -67 | 2169 | -113 | -87 | -24 | 13 | 14 | -31 | 17 | 19 |
| 1296 | 138 | -298 | 1685 | 179 | -387 | 5 | 18 | 42 | 6 | 24 | 55 |
| 1248 | 176 | -82 | 1622 | 229 | -106 | -19 | 11 | 29 | -25 | 14 | 37 |
| 1555 | 146 | -316 | 2022 | 189 | -411 | 4 | 18 | 39 | 5 | 23 | 51 |
| 1953 | -135 | -8 | 2539 | -176 | -11 | -122 | -26 | -50 | -159 | -34 | -65 |
| 1843 | 8 | -121 | 2396 | 11 | -157 | 114 | -60 | -24 | 148 | -79 | -31 |
| 1644 | 43 | -181 | 2137 | 56 | -236 | 31 | -24 | 13 | 41 | -31 | 17 |
| 1397 | 101 | -107 | 1816 | 132 | -140 | -27 | -28 | -11 | -36 | -36 | -14 |
| 1740 | 16 | -91 | 2262 | 20 | -118 | -1643 | 187 | 0 | -2136 | 243 | 0 |
| 1778 | -120 | 44 | 2311 | -156 | 58 | -1476 | 144 | -42 | -1919 | 188 | -55 |
| 1645 | -126 | 15 | 2139 | -164 | 20 | -801 | 75 | -65 | -1042 | 98 | -85 |
| 1317 | 123 | -293 | 1712 | 160 | -381 | -1072 | 106 | -68 | -1393 | 138 | -88 |
| 1837 | -120 | 10 | 2389 | -156 | 13 | -1137 | 129 | -53 | -1478 | 167 | -69 |
| 1627 | -78 | -154 | 2115 | -102 | -200 | -801 | 110 | -99 | -1042 | 143 | -129 |
| 1422 | -129 | -23 | 1848 | -167 | -30 | -1506 | 120 | -36 | -1958 | 157 | -47 |
| 1838 | -130 | 17 | 2389 | -170 | 23 | -865 | 51 | -48 | -1124 | 66 | -63 |
| 1875 | -101 | -72 | 2437 | -132 | -94 | -1478 | 81 | -50 | -1922 | 105 | -64 |
| 1564 | 172 | -151 | 2033 | 224 | -196 | -609 | 47 | -60 | -792 | 61 | -78 |
| 1921 | -99 | -82 | 2498 | -129 | -107 | -694 | 82 | -56 | -902 | 107 | -73 |
| 1904 | -137 | -3 | 2475 | -178 | -4 | -914 | 91 | -32 | -1188 | 119 | -42 |
| 1397 | 145 | -319 | 1815 | 188 | -414 | -481 | 236 | 57 | -626 | 306 | 74 |

| | | | | | | | | | | | | | |
|------|------|------|------|------|------|-----------------------|-----|-----|-------|-----|------|--|--|
| 1892 | -124 | 0 | 2460 | -162 | -1 | -1643 | 187 | 0 | -2136 | 243 | 0 | | |
| 1662 | 12 | -197 | 2160 | 16 | -256 | -1476 | 144 | -42 | -1919 | 188 | -55 | | |
| 2651 | 243 | -131 | 3446 | 316 | -170 | -801 | 75 | -65 | -1042 | 98 | -85 | | |
| 1623 | 183 | 20 | 2110 | 238 | 26 | -1072 | 106 | -68 | -1393 | 138 | -88 | | |
| 1835 | -119 | -34 | 2386 | -154 | -45 | -1137 | 129 | -53 | -1478 | 167 | -69 | | |
| 1857 | -114 | -214 | 2415 | -148 | -278 | -801 | 110 | -99 | -1042 | 143 | -129 | | |
| 1722 | -68 | -146 | 2239 | -88 | -190 | -1506 | 120 | -36 | -1958 | 157 | -47 | | |
| 1250 | 168 | -43 | 1625 | 218 | -56 | -865 | 51 | -48 | -1124 | 66 | -63 | | |
| 1680 | -40 | -136 | 2184 | -53 | -176 | -1478 | 81 | -50 | -1922 | 105 | -64 | | |
| 1592 | -89 | -145 | 2070 | -115 | -188 | -609 | 47 | -60 | -792 | 61 | -78 | | |
| 1412 | -120 | 43 | 1835 | -156 | 56 | -694 | 82 | -56 | -902 | 107 | -73 | | |
| 3923 | 124 | 67 | 5100 | 162 | 87 | -914 | 91 | -32 | -1188 | 119 | -42 | | |
| 1539 | -128 | -52 | 2001 | -167 | -67 | Soletta piatta | | | | | | | |
| 2874 | -48 | 51 | 3736 | -62 | 66 | 348 | 302 | 16 | 452 | 393 | 21 | | |
| 3823 | 174 | 345 | 4970 | 226 | 448 | 434 | 119 | -69 | 565 | 154 | -90 | | |
| 1934 | -80 | -137 | 2514 | -103 | -179 | 418 | 186 | -51 | 543 | 241 | -66 | | |
| 1412 | -128 | -38 | 1835 | -166 | -49 | 370 | 181 | 57 | 481 | 236 | 74 | | |
| 2989 | 54 | 111 | 3886 | 70 | 144 | 294 | 321 | 115 | 383 | 418 | 150 | | |
| 1663 | -133 | -81 | 2162 | -172 | -105 | 484 | 323 | 104 | 629 | 420 | 136 | | |
| 1621 | -119 | 24 | 2107 | -155 | 31 | 501 | 192 | 20 | 652 | 250 | 26 | | |
| 2080 | 10 | 64 | 2704 | 13 | 83 | 447 | 44 | 46 | 581 | 57 | 59 | | |
| 2248 | -70 | 86 | 2923 | -90 | 112 | 460 | 314 | 29 | 599 | 409 | 38 | | |
| 2180 | 5 | 58 | 2834 | 6 | 76 | 547 | 188 | 11 | 711 | 244 | 14 | | |
| 3167 | 4 | 93 | 4117 | 5 | 121 | 791 | 210 | 7 | 1029 | 273 | 9 | | |
| 2878 | 62 | 113 | 3742 | 81 | 147 | 805 | 211 | 39 | 1046 | 274 | 50 | | |
| 1653 | -31 | -27 | 2149 | -40 | -35 | 637 | 327 | 43 | 828 | 424 | 55 | | |
| 3812 | 76 | 150 | 4956 | 99 | 195 | 551 | 375 | -54 | 716 | 487 | -70 | | |
| 1804 | -64 | 83 | 2346 | -83 | 109 | 719 | 159 | 13 | 934 | 207 | 18 | | |
| 3408 | 90 | 150 | 4430 | 117 | 195 | 770 | 302 | -5 | 1002 | 392 | -7 | | |
| 1762 | -48 | 150 | 2291 | -63 | 195 | 1042 | 260 | -39 | 1354 | 338 | -50 | | |
| 2743 | -45 | 108 | 3566 | -58 | 140 | 874 | 186 | -66 | 1137 | 242 | -86 | | |
| 1822 | -114 | 124 | 2368 | -148 | 162 | 928 | 291 | -79 | 1207 | 379 | -103 | | |
| 2674 | -29 | 98 | 3476 | -37 | 127 | 925 | 290 | -25 | 1203 | 377 | -32 | | |
| 2196 | -65 | 81 | 2855 | -85 | 106 | 1039 | 218 | -3 | 1351 | 283 | -4 | | |
| 2248 | -79 | -19 | 2923 | -103 | -24 | 1094 | 217 | -15 | 1422 | 283 | -20 | | |
| 2151 | -72 | 60 | 2796 | -94 | 77 | 1231 | 193 | -50 | 1601 | 251 | -65 | | |
| 1979 | -124 | -17 | 2573 | -161 | -22 | 1266 | 205 | -66 | 1645 | 267 | -85 | | |
| 1892 | -134 | 21 | 2460 | -174 | 28 | 1217 | 230 | -55 | 1582 | 299 | -72 | | |
| 1860 | -117 | 84 | 2418 | -152 | 109 | 1356 | 225 | -75 | 1763 | 292 | -98 | | |
| 1563 | -97 | 39 | 2032 | -126 | 51 | 1067 | 148 | -58 | 1387 | 192 | -75 | | |
| 1677 | -116 | 26 | 2180 | -151 | 34 | 1147 | 190 | -30 | 1491 | 247 | -39 | | |
| 2005 | -121 | 66 | 2606 | -158 | 86 | 1459 | 187 | -31 | 1897 | 244 | -41 | | |
| 1978 | -108 | 71 | 2571 | -141 | 93 | 1130 | 142 | 3 | 1469 | 184 | 4 | | |
| 2992 | 14 | 85 | 3890 | 18 | 110 | 1384 | 169 | -56 | 1799 | 219 | -73 | | |
| 2577 | -53 | 43 | 3350 | -69 | 56 | 1272 | 173 | -34 | 1653 | 225 | -44 | | |
| 2173 | -104 | 24 | 2825 | -136 | 32 | 1375 | 192 | -41 | 1788 | 250 | -54 | | |
| 2740 | -50 | 64 | 3562 | -65 | 83 | 1176 | 158 | -24 | 1528 | 205 | -31 | | |

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|-----|------|------|-----|------|
| 1739 | -146 | 27 | 2261 | -190 | 35 | 1386 | 168 | 24 | 1801 | 219 | 31 |
| 1906 | -129 | 25 | 2478 | -167 | 33 | 1184 | 125 | -17 | 1539 | 163 | -22 |
| 3122 | -43 | 47 | 4059 | -55 | 62 | 1368 | 173 | -46 | 1778 | 225 | -60 |
| 2147 | -140 | 9 | 2791 | -182 | 12 | 1222 | 157 | -52 | 1589 | 204 | -67 |
| 2007 | -147 | 47 | 2609 | -191 | 61 | 1382 | 139 | -59 | 1796 | 181 | -77 |
| 4949 | 189 | 75 | 6434 | 246 | 97 | 1121 | 149 | -35 | 1457 | 194 | -46 |
| 2017 | -102 | 48 | 2622 | -133 | 63 | 1262 | 147 | -27 | 1640 | 191 | -35 |
| 4711 | 173 | 94 | 6124 | 225 | 122 | 1117 | 92 | 7 | 1452 | 120 | 9 |
| 1508 | -137 | 1 | 1961 | -179 | 2 | 1216 | 106 | -103 | 1580 | 138 | -134 |
| 5824 | 354 | 368 | 7571 | 461 | 478 | 1099 | 131 | -107 | 1429 | 170 | -139 |
| 1337 | -120 | 21 | 1738 | -155 | 28 | 957 | 125 | -77 | 1244 | 163 | -101 |
| 2612 | -26 | 165 | 3396 | -34 | 214 | 1223 | 125 | -71 | 1590 | 163 | -93 |
| 3741 | -6 | 345 | 4863 | -8 | 448 | 954 | 106 | -53 | 1240 | 137 | -69 |
| 3982 | 157 | 42 | 5176 | 204 | 55 | 924 | 88 | -64 | 1201 | 115 | -83 |
| 1305 | -95 | 49 | 1696 | -123 | 63 | 1260 | 60 | 24 | 1638 | 79 | 31 |
| 1832 | -149 | -1 | 2381 | -194 | -2 | 793 | 81 | -112 | 1031 | 105 | -145 |
| 1665 | -137 | 23 | 2164 | -179 | 29 | 922 | 43 | 39 | 1199 | 56 | 51 |
| 1538 | -109 | 158 | 2000 | -142 | 206 | 848 | 105 | -115 | 1103 | 136 | -150 |
| 3516 | 73 | 172 | 4571 | 94 | 224 | | | | | | |
| 4097 | 180 | -376 | 5326 | 234 | -489 | | | | | | |
| 2032 | -63 | 94 | 2642 | -81 | 123 | | | | | | |
| 4432 | 145 | 41 | 5761 | 189 | 54 | | | | | | |
| 1636 | -142 | 14 | 2126 | -185 | 18 | | | | | | |
| 1770 | -48 | 155 | 2300 | -63 | 202 | | | | | | |
| 1716 | -22 | -7 | 2230 | -29 | -9 | | | | | | |
| 1378 | -117 | -120 | 1792 | -152 | -156 | | | | | | |
| 1418 | -119 | 9 | 1843 | -155 | 11 | | | | | | |
| 1123 | -120 | 102 | 1460 | -156 | 133 | | | | | | |
| 1911 | -178 | -530 | 2484 | -231 | -689 | | | | | | |
| 1282 | -117 | 117 | 1667 | -153 | 152 | | | | | | |
| 1307 | -159 | 17 | 1699 | -207 | 22 | | | | | | |
| 837 | -143 | 8 | 1088 | -186 | 11 | | | | | | |
| 1341 | -152 | 47 | 1743 | -198 | 61 | | | | | | |
| 1789 | -55 | 21 | 2326 | -72 | 27 | | | | | | |
| 1852 | -64 | 10 | 2407 | -83 | 14 | | | | | | |
| 940 | -128 | -49 | 1222 | -166 | -64 | | | | | | |
| 3679 | -145 | 453 | 4782 | -188 | 589 | | | | | | |
| 1684 | -124 | -12 | 2189 | -161 | -15 | | | | | | |
| 2528 | -81 | 113 | 3286 | -105 | 147 | | | | | | |
| 4070 | -162 | 80 | 5291 | -210 | 104 | | | | | | |
| 6056 | 275 | 78 | 7872 | 358 | 101 | | | | | | |
| 5811 | 247 | -26 | 7554 | 321 | -34 | | | | | | |
| 5710 | 299 | 112 | 7423 | 388 | 145 | | | | | | |
| 2182 | -9 | -38 | 2836 | -12 | -50 | | | | | | |
| 2870 | -69 | 28 | 3731 | -89 | 36 | | | | | | |
| 4509 | 105 | 344 | 5862 | 136 | 448 | | | | | | |
| 1814 | -89 | 39 | 2358 | -116 | 51 | | | | | | |

| | | | | | |
|------|------|------|------|------|------|
| 2315 | -31 | 12 | 3010 | -41 | 15 |
| 2035 | -14 | 18 | 2645 | -18 | 24 |
| 1657 | -105 | 72 | 2154 | -136 | 94 |
| 1807 | -53 | -23 | 2349 | -69 | -30 |
| 1382 | -71 | 79 | 1797 | -92 | 103 |
| 1967 | -49 | 73 | 2557 | -64 | 94 |
| 2142 | -20 | 86 | 2785 | -26 | 112 |
| 2099 | -37 | 65 | 2728 | -49 | 85 |
| 2499 | -196 | -257 | 3249 | -254 | -334 |
| 1963 | -57 | 14 | 2552 | -74 | 18 |
| 1856 | -60 | 10 | 2413 | -78 | 13 |
| 2145 | 16 | 3 | 2789 | 20 | 4 |
| 1934 | -65 | -28 | 2514 | -84 | -37 |
| 2346 | -1 | -26 | 3050 | -1 | -34 |
| 1922 | -87 | -14 | 2499 | -114 | -18 |
| 4100 | -154 | 678 | 5330 | -200 | 882 |
| 1008 | -98 | 42 | 1310 | -127 | 55 |
| 2092 | 4 | -177 | 2720 | 6 | -230 |
| 1901 | -76 | -30 | 2471 | -99 | -39 |
| 2020 | -34 | 80 | 2626 | -44 | 104 |
| 1939 | -53 | 45 | 2521 | -69 | 59 |
| 2218 | 0 | 41 | 2884 | 0 | 53 |
| 2207 | 22 | -88 | 2869 | 28 | -114 |
| 1560 | -35 | 84 | 2028 | -45 | 109 |
| 1767 | 6 | 169 | 2297 | 8 | 220 |
| 1920 | 33 | -32 | 2497 | 43 | -42 |
| 2036 | 9 | -35 | 2646 | 12 | -46 |
| 1389 | -150 | 27 | 1806 | -196 | 35 |
| 2330 | -13 | -52 | 3029 | -17 | -68 |
| 2029 | -54 | -194 | 2638 | -70 | -253 |
| 1182 | -100 | 80 | 1537 | -130 | 104 |
| 2042 | -26 | -220 | 2654 | -34 | -286 |
| 3031 | -49 | 12 | 3940 | -64 | 16 |
| 1834 | -109 | 14 | 2384 | -142 | 18 |
| 4254 | 138 | 288 | 5531 | 179 | 374 |
| 852 | -140 | -8 | 1107 | -182 | -10 |
| 1133 | -152 | 20 | 1473 | -198 | 26 |
| 1749 | -58 | -12 | 2274 | -76 | -16 |
| 1320 | -70 | 79 | 1716 | -92 | 103 |
| 1529 | -144 | 22 | 1987 | -187 | 29 |
| 1607 | -110 | 42 | 2089 | -143 | 54 |
| 1851 | -78 | 42 | 2407 | -102 | 55 |
| 1947 | -195 | -570 | 2531 | -253 | -741 |
| 1757 | -48 | 4 | 2284 | -63 | 5 |
| 1614 | -1 | -265 | 2098 | -1 | -344 |
| 1797 | 126 | -196 | 2336 | 164 | -255 |
| 1672 | -114 | -72 | 2174 | -148 | -93 |

| | | | | | |
|------|------|------|------|------|------|
| 1499 | 151 | -188 | 1949 | 196 | -245 |
| 1527 | -30 | -168 | 1984 | -39 | -219 |
| 6558 | 228 | 42 | 8525 | 297 | 55 |
| 2380 | 218 | 284 | 3094 | 283 | 370 |
| 1170 | 154 | -279 | 1521 | 200 | -362 |
| 1400 | -7 | -53 | 1820 | -9 | -69 |
| 1646 | -27 | -159 | 2140 | -35 | -207 |
| 1332 | -88 | 135 | 1732 | -115 | 176 |
| 1603 | 130 | -380 | 2084 | 169 | -493 |
| 1579 | -107 | -200 | 2052 | -139 | -261 |
| 2312 | 34 | -148 | 3006 | 44 | -193 |
| 1584 | 140 | -211 | 2059 | 182 | -274 |
| 1793 | -115 | -37 | 2331 | -150 | -48 |
| 1549 | -152 | -69 | 2014 | -198 | -89 |
| 1268 | 158 | -312 | 1648 | 206 | -406 |
| 1653 | -74 | -108 | 2149 | -96 | -141 |
| 1410 | 87 | -338 | 1833 | 112 | -439 |
| 1834 | 56 | -53 | 2384 | 73 | -69 |
| 1645 | -144 | -24 | 2139 | -187 | -31 |
| 1591 | 82 | -327 | 2068 | 107 | -425 |
| 1346 | 148 | -274 | 1749 | 192 | -356 |
| 2187 | 209 | -56 | 2843 | 271 | -73 |
| 1453 | -108 | -117 | 1888 | -141 | -152 |
| 1008 | 146 | -99 | 1310 | 190 | -129 |
| 1895 | -92 | 75 | 2463 | -120 | 98 |
| 1785 | -74 | 33 | 2321 | -96 | 43 |
| 1628 | -144 | -10 | 2116 | -187 | -14 |
| 1697 | -32 | -123 | 2206 | -42 | -160 |
| 1594 | -77 | -5 | 2072 | -100 | -7 |
| 1418 | -18 | -126 | 1844 | -23 | -164 |
| 1584 | -79 | -109 | 2059 | -102 | -142 |
| 1787 | -105 | 93 | 2324 | -137 | 121 |
| 1867 | -103 | -12 | 2427 | -135 | -15 |
| 1501 | -173 | 18 | 1951 | -224 | 24 |
| 1482 | -9 | 23 | 1927 | -12 | 30 |
| 1363 | -83 | -57 | 1772 | -108 | -74 |
| 1911 | -80 | 42 | 2484 | -104 | 55 |
| 1871 | -107 | 22 | 2432 | -139 | 28 |
| 1445 | -71 | 81 | 1879 | -92 | 105 |
| 1720 | -71 | -80 | 2236 | -92 | -103 |
| 1839 | -87 | -26 | 2391 | -113 | -34 |
| 1401 | 45 | -91 | 1821 | 59 | -119 |
| 1889 | -75 | -76 | 2455 | -98 | -99 |
| 1933 | -102 | 33 | 2513 | -133 | 44 |
| 1421 | -151 | -66 | 1847 | -197 | -86 |
| 1646 | -109 | 19 | 2140 | -142 | 25 |
| 1532 | -121 | -25 | 1991 | -158 | -32 |

| | | | | | |
|------|------|------|------|------|------|
| 1824 | 200 | 186 | 2372 | 260 | 242 |
| 1494 | -104 | -211 | 1943 | -135 | -274 |
| 1621 | 17 | -340 | 2107 | 22 | -442 |
| 2973 | 220 | -319 | 3865 | 286 | -414 |
| 1247 | -89 | -158 | 1621 | -116 | -205 |
| 1314 | -80 | -165 | 1708 | -103 | -214 |
| 1677 | -125 | 14 | 2181 | -162 | 18 |
| 1510 | 40 | -343 | 1964 | 52 | -446 |
| 3851 | 106 | -104 | 5006 | 138 | -135 |
| 1089 | 155 | -244 | 1415 | 201 | -317 |
| 1509 | 27 | -87 | 1962 | 34 | -113 |
| 3332 | 253 | -68 | 4332 | 329 | -88 |
| 1072 | -92 | -78 | 1394 | -119 | -101 |
| 1522 | 128 | -391 | 1978 | 166 | -509 |

Calotta 70+30

| | | | | | |
|------|------|------|------|------|------|
| 1435 | 160 | -194 | 1866 | 208 | -252 |
| 1265 | -46 | 74 | 1644 | -59 | 97 |
| 1409 | -37 | -128 | 1832 | -48 | -167 |
| 1164 | -42 | -16 | 1513 | -54 | -21 |
| 1495 | 48 | -214 | 1943 | 63 | -278 |
| 1344 | -52 | 71 | 1747 | -68 | 92 |
| 1209 | 186 | -170 | 1571 | 242 | -222 |
| 1732 | 51 | -235 | 2251 | 66 | -305 |
| 852 | 193 | 100 | 1107 | 251 | 130 |
| 978 | 192 | 145 | 1271 | 250 | 189 |
| 1455 | -72 | -75 | 1892 | -94 | -98 |
| 1355 | -37 | 5 | 1761 | -48 | 7 |
| 1800 | -4 | 208 | 2341 | -5 | 271 |
| 1384 | -12 | 85 | 1799 | -15 | 110 |
| 1494 | 104 | 192 | 1943 | 135 | 249 |
| 1626 | 134 | 108 | 2113 | 174 | 140 |
| 911 | -128 | 69 | 1185 | -167 | 89 |
| 982 | -126 | 85 | 1277 | -164 | 110 |
| 1076 | -116 | 23 | 1399 | -151 | 30 |
| 1186 | -111 | -17 | 1541 | -145 | -22 |
| 1023 | -115 | 18 | 1330 | -149 | 23 |
| 1325 | -20 | 91 | 1722 | -26 | 118 |
| 1549 | 54 | 155 | 2013 | 70 | 201 |
| 1679 | 95 | 197 | 2183 | 124 | 256 |
| 1341 | -51 | 9 | 1744 | -67 | 12 |
| 1171 | -15 | 94 | 1523 | -19 | 122 |
| 1886 | -39 | -86 | 2452 | -51 | -111 |
| 1549 | -66 | 71 | 2013 | -85 | 92 |
| 1812 | 21 | -152 | 2355 | 27 | -198 |
| 1612 | -50 | -135 | 2096 | -65 | -175 |
| 1567 | 46 | -207 | 2037 | 60 | -269 |
| 1479 | -45 | 71 | 1923 | -58 | 93 |

| | | | | | |
|------|------|------|------|------|------|
| 1579 | -35 | 102 | 2052 | -45 | 133 |
| 1910 | -56 | -86 | 2482 | -73 | -112 |
| 1713 | -54 | -25 | 2226 | -71 | -32 |
| 1271 | -108 | 3 | 1652 | -141 | 4 |
| 1209 | -83 | 81 | 1572 | -107 | 105 |
| 1137 | -80 | 44 | 1479 | -105 | 57 |
| 844 | -75 | -40 | 1098 | -98 | -52 |
| 1572 | -97 | 30 | 2044 | -127 | 39 |
| 1510 | -91 | 79 | 1963 | -118 | 103 |
| 1184 | -94 | -39 | 1539 | -122 | -51 |
| 1417 | -102 | 25 | 1842 | -132 | 32 |
| 1063 | -82 | 30 | 1382 | -106 | 39 |
| 1219 | -95 | 5 | 1585 | -124 | 6 |
| 1205 | -104 | -4 | 1566 | -135 | -6 |
| 776 | 198 | -95 | 1009 | 258 | -124 |
| 1437 | -39 | 35 | 1868 | -51 | 45 |
| 1100 | 175 | -48 | 1430 | 228 | -63 |
| 1009 | -32 | -31 | 1311 | -41 | -40 |
| 1393 | 48 | -225 | 1810 | 63 | -292 |
| 1198 | -41 | 68 | 1558 | -53 | 89 |
| 1209 | -33 | -21 | 1571 | -42 | -28 |
| 1150 | 5 | -77 | 1495 | 7 | -100 |
| 886 | 183 | -139 | 1152 | 238 | -181 |
| 1653 | 114 | -122 | 2148 | 149 | -159 |
| 938 | 170 | -66 | 1220 | 221 | -85 |
| 1390 | -28 | 129 | 1807 | -36 | 168 |
| 1181 | -67 | -83 | 1535 | -87 | -108 |
| 1576 | 141 | 106 | 2049 | 183 | 137 |
| 1521 | 157 | 15 | 1978 | 204 | 20 |
| 1418 | -51 | -41 | 1844 | -66 | -54 |
| 1022 | 162 | -1 | 1329 | 210 | -1 |
| 1656 | 5 | 202 | 2152 | 6 | 262 |
| 1934 | 104 | 124 | 2514 | 135 | 161 |
| 874 | 145 | 62 | 1136 | 189 | 81 |
| 850 | 196 | 76 | 1105 | 255 | 99 |
| 1443 | 154 | -9 | 1876 | 200 | -11 |
| 1479 | -82 | -40 | 1923 | -106 | -51 |
| 1373 | -25 | -74 | 1785 | -33 | -96 |
| 1316 | -55 | 51 | 1711 | -71 | 66 |
| 1445 | -115 | -8 | 1878 | -149 | -11 |
| 1359 | -114 | -59 | 1767 | -148 | -76 |
| 1391 | -100 | -69 | 1808 | -130 | -90 |
| 1095 | -71 | -97 | 1423 | -92 | -126 |
| 1495 | -44 | 16 | 1943 | -57 | 21 |
| 1716 | -83 | 10 | 2231 | -108 | 13 |
| 1604 | -89 | -6 | 2086 | -116 | -8 |
| 1472 | -62 | -38 | 1914 | -81 | -49 |

| | | | | | |
|------|------|------|-------|------|------|
| 1590 | -112 | -37 | 2067 | -146 | -48 |
| 1561 | -95 | -49 | 2029 | -124 | -63 |
| 1507 | -69 | 26 | 1959 | -89 | 34 |
| 1408 | -24 | -161 | 1831 | -31 | -209 |
| 1786 | -80 | 7 | 2322 | -104 | 9 |
| 1401 | -92 | -46 | 1821 | -120 | -60 |
| 2064 | -5 | 81 | 2684 | -6 | 106 |
| 2201 | -5 | 31 | 2861 | -7 | 41 |
| 1799 | 32 | -21 | 2338 | 41 | -27 |
| 1692 | -113 | 53 | 2199 | -147 | 69 |
| 2199 | 7 | 68 | 2859 | 9 | 88 |
| 1356 | 5 | -79 | 1762 | 7 | -103 |
| 2002 | -79 | 67 | 2603 | -103 | 88 |
| 1293 | -25 | -14 | 1680 | -33 | -18 |
| 2979 | 7 | 108 | 3873 | 10 | 141 |
| 1349 | -134 | -10 | 1753 | -175 | -14 |
| 2217 | -46 | 32 | 2881 | -59 | 42 |
| 2995 | 10 | 194 | 3894 | 13 | 252 |
| 2709 | -9 | 157 | 3521 | -12 | 204 |
| 1280 | -87 | -28 | 1663 | -113 | -37 |
| 1335 | -131 | -28 | 1736 | -170 | -36 |
| 2455 | -26 | 97 | 3192 | -34 | 126 |
| 825 | -140 | -101 | 1072 | -183 | -131 |
| 1285 | -144 | -50 | 1671 | -187 | -66 |
| 1565 | -17 | 8 | 2034 | -22 | 11 |
| 1506 | -102 | 50 | 1958 | -132 | 65 |
| 1899 | -14 | 89 | 2469 | -18 | 116 |
| 1609 | -70 | -21 | 2091 | -91 | -27 |
| 2709 | -2 | 77 | 3522 | -3 | 100 |
| 2399 | 96 | -93 | 3119 | 125 | -121 |
| 1760 | 86 | 106 | 2288 | 112 | 138 |
| 6111 | 237 | 300 | 7944 | 308 | 390 |
| 2794 | 81 | -12 | 3633 | 106 | -16 |
| 2964 | 54 | 89 | 3853 | 70 | 116 |
| 6096 | 385 | 59 | 7924 | 501 | 76 |
| 1199 | 110 | 14 | 1559 | 143 | 18 |
| 3044 | 79 | -203 | 3957 | 103 | -264 |
| 5659 | -48 | -107 | 7356 | -63 | -139 |
| 5045 | -39 | -1 | 6559 | -51 | -2 |
| 1792 | 122 | 29 | 2330 | 159 | 38 |
| 5524 | 70 | -106 | 7181 | 91 | -138 |
| 7762 | -16 | -403 | 10090 | -20 | -524 |
| 2065 | 88 | -23 | 2685 | 114 | -30 |
| 1937 | 107 | 35 | 2518 | 139 | 46 |
| 1599 | 60 | 45 | 2079 | 78 | 58 |
| 1608 | -26 | 52 | 2090 | -34 | 68 |
| 1414 | -78 | 26 | 1839 | -101 | 34 |

| | | | | | |
|------|-----|------|------|------|------|
| 2114 | 100 | -15 | 2749 | 130 | -19 |
| 1775 | -5 | 110 | 2307 | -7 | 144 |
| 2047 | 62 | 85 | 2661 | 80 | 111 |
| 1904 | -61 | 42 | 2476 | -79 | 54 |
| 1557 | 101 | 4 | 2025 | 132 | 5 |
| 2033 | 99 | 36 | 2642 | 128 | 47 |
| 1276 | 16 | -97 | 1659 | 21 | -126 |
| 1055 | -60 | -39 | 1372 | -79 | -51 |
| 1275 | 74 | -60 | 1657 | 97 | -78 |
| 1831 | 83 | -17 | 2381 | 108 | -23 |
| 1874 | -19 | -62 | 2436 | -24 | -80 |
| 1194 | -44 | 4 | 1552 | -58 | 6 |
| 1644 | 113 | -27 | 2138 | 146 | -34 |
| 1285 | -71 | -30 | 1670 | -92 | -39 |
| 1819 | 16 | -33 | 2365 | 20 | -42 |
| 3015 | 98 | 106 | 3919 | 128 | 138 |
| 1692 | 120 | -16 | 2199 | 157 | -21 |
| 1544 | 123 | -50 | 2008 | 160 | -65 |
| 5988 | 72 | -372 | 7785 | 94 | -484 |
| 2595 | 38 | -100 | 3373 | 50 | -131 |
| 7012 | 94 | -132 | 9115 | 122 | -172 |
| 1886 | 142 | 87 | 2452 | 184 | 113 |
| 2386 | 122 | -13 | 3102 | 158 | -17 |
| 6101 | 60 | 66 | 7931 | 78 | 86 |
| 5183 | 52 | 79 | 6738 | 67 | 103 |
| 5533 | 25 | -336 | 7193 | 33 | -437 |
| 1968 | 92 | 27 | 2558 | 120 | 35 |
| 5172 | 326 | -40 | 6723 | 423 | -52 |
| 790 | -41 | 53 | 1026 | -53 | 68 |
| 102 | -82 | 104 | 132 | -106 | 136 |
| 3479 | 42 | 72 | 4523 | 54 | 94 |
| 4029 | 109 | -50 | 5237 | 141 | -65 |
| 1282 | 85 | 61 | 1666 | 111 | 79 |
| 524 | -72 | 151 | 681 | -93 | 196 |
| 632 | 106 | 27 | 822 | 138 | 35 |
| 1691 | 44 | 77 | 2198 | 57 | 101 |
| 2110 | 6 | 80 | 2743 | 8 | 104 |
| 1054 | -7 | 48 | 1370 | -8 | 62 |
| 3293 | 53 | 45 | 4281 | 69 | 58 |
| 3792 | 188 | 74 | 4929 | 244 | 96 |
| 3857 | 165 | 297 | 5014 | 214 | 387 |
| 3275 | 77 | -35 | 4258 | 100 | -46 |
| 3602 | 73 | -11 | 4683 | 95 | -15 |
| 3853 | 77 | 25 | 5009 | 101 | 33 |
| 2522 | 46 | 30 | 3279 | 60 | 39 |
| 2144 | 46 | -97 | 2788 | 59 | -127 |
| 3658 | 113 | 51 | 4756 | 146 | 67 |

| | | | | | |
|------|------|------|------|------|------|
| 3389 | 53 | 134 | 4406 | 69 | 175 |
| 1976 | 61 | -149 | 2569 | 79 | -194 |
| 2722 | 145 | 198 | 3539 | 188 | 257 |
| 2655 | 55 | -45 | 3452 | 71 | -58 |
| 2746 | -22 | 37 | 3570 | -28 | 47 |
| 581 | 60 | 66 | 755 | 78 | 85 |
| 447 | -110 | 320 | 581 | -143 | 416 |
| 3551 | 218 | 107 | 4617 | 283 | 138 |
| 1634 | 13 | 73 | 2125 | 17 | 95 |
| 3686 | 194 | 105 | 4792 | 253 | 136 |
| 1235 | -49 | 107 | 1606 | -64 | 139 |
| 1044 | -88 | 345 | 1357 | -114 | 449 |
| 3798 | 136 | 83 | 4937 | 176 | 108 |
| 952 | -57 | 146 | 1238 | -74 | 190 |
| 3659 | 221 | 85 | 4757 | 287 | 111 |
| 1688 | 39 | -85 | 2194 | 50 | -111 |
| 2949 | 51 | 67 | 3833 | 66 | 87 |
| 2233 | 46 | -6 | 2903 | 60 | -7 |
| 800 | -19 | 43 | 1039 | -25 | 56 |
| 3283 | 46 | 41 | 4268 | 60 | 53 |
| 1506 | 62 | 124 | 1958 | 80 | 161 |
| 2173 | 128 | 130 | 2824 | 166 | 170 |
| 1837 | 47 | -149 | 2389 | 61 | -193 |
| 2816 | 44 | 42 | 3661 | 57 | 54 |
| 1531 | 58 | 120 | 1990 | 76 | 156 |
| 3566 | 139 | 51 | 4636 | 181 | 66 |
| 1809 | 34 | 95 | 2352 | 44 | 124 |
| 1377 | 118 | 160 | 1790 | 154 | 208 |
| 2328 | 122 | -59 | 3027 | 158 | -77 |
| 1615 | 140 | -22 | 2100 | 183 | -29 |
| 1110 | 134 | 38 | 1442 | 174 | 50 |
| 1476 | 111 | 43 | 1919 | 144 | 56 |
| 1657 | 75 | 43 | 2155 | 97 | 56 |
| 1651 | 122 | 17 | 2146 | 158 | 22 |
| 1426 | -50 | -32 | 1854 | -65 | -41 |
| 864 | 145 | -14 | 1123 | 189 | -19 |
| 1775 | 126 | 29 | 2308 | 163 | 38 |
| 1816 | 9 | 113 | 2361 | 12 | 147 |
| 1301 | -23 | 115 | 1691 | -30 | 149 |
| 1489 | 149 | 18 | 1936 | 193 | 23 |
| 1442 | -63 | 22 | 1874 | -81 | 28 |
| 1739 | 107 | 126 | 2260 | 139 | 164 |
| 1149 | 7 | -74 | 1494 | 10 | -97 |
| 1100 | -51 | -36 | 1430 | -67 | -47 |
| 1439 | 25 | -92 | 1871 | 33 | -119 |
| 1499 | 83 | -61 | 1949 | 108 | -79 |
| 1211 | -35 | 4 | 1574 | -46 | 5 |

| | | | | | |
|------|-----|------|------|-----|------|
| 849 | -34 | -46 | 1104 | -45 | -59 |
| 1070 | 153 | -37 | 1391 | 198 | -48 |
| 1300 | -44 | 22 | 1690 | -57 | 29 |
| 1776 | 117 | -130 | 2308 | 152 | -169 |
| 1680 | 138 | -38 | 2184 | 179 | -50 |
| 1051 | 182 | -76 | 1367 | 237 | -98 |
| 1071 | 130 | 55 | 1392 | 169 | 71 |
| 1344 | 145 | -67 | 1748 | 188 | -87 |
| 1487 | 166 | 38 | 1933 | 216 | 49 |
| 1512 | 144 | -42 | 1966 | 188 | -55 |
| 4076 | 118 | 36 | 5298 | 154 | 47 |
| 4235 | 150 | -66 | 5506 | 196 | -86 |
| 5933 | 236 | 56 | 7713 | 307 | 73 |
| 3822 | 96 | 90 | 4968 | 124 | 117 |
| 3818 | 220 | -209 | 4964 | 286 | -272 |
| 5466 | 117 | 6 | 7106 | 152 | 8 |
| 4521 | 225 | 0 | 5878 | 293 | 0 |
| 4746 | 100 | -33 | 6170 | 130 | -42 |
| 4814 | 110 | 102 | 6258 | 143 | 133 |
| 4445 | 85 | 123 | 5778 | 110 | 160 |
| 3861 | 124 | -158 | 5020 | 161 | -206 |
| 5312 | 144 | 351 | 6906 | 187 | 456 |
| 5402 | 219 | -8 | 7023 | 285 | -11 |
| 5859 | 206 | 204 | 7617 | 268 | 265 |
| 5934 | 286 | -29 | 7715 | 371 | -38 |
| 4581 | 136 | -6 | 5956 | 177 | -8 |
| 2989 | 150 | 135 | 3886 | 195 | 175 |
| 5679 | 150 | 163 | 7382 | 196 | 212 |
| 4648 | 126 | -200 | 6043 | 163 | -260 |
| 4383 | 159 | -216 | 5697 | 207 | -281 |
| 4727 | 149 | 89 | 6145 | 194 | 116 |
| 5380 | 279 | -117 | 6994 | 363 | -152 |
| 4804 | 203 | 176 | 6245 | 264 | 228 |
| 4240 | 135 | 9 | 5512 | 176 | 11 |
| 5478 | 291 | -141 | 7122 | 378 | -183 |
| 3790 | 127 | -130 | 4927 | 165 | -169 |
| 3461 | 78 | -109 | 4499 | 101 | -142 |
| 5004 | 96 | -62 | 6505 | 125 | -80 |
| 3758 | 99 | 51 | 4885 | 129 | 67 |
| 5140 | 124 | 221 | 6682 | 162 | 288 |
| 5678 | 198 | -25 | 7381 | 257 | -33 |
| 6535 | 239 | 4 | 8496 | 310 | 6 |
| 5204 | 91 | -53 | 6765 | 118 | -68 |
| 3356 | 123 | 162 | 4363 | 160 | 211 |
| 6046 | 254 | 58 | 7860 | 330 | 76 |
| 4759 | 93 | -205 | 6187 | 120 | -266 |
| 4921 | 258 | -41 | 6397 | 335 | -53 |

| | | | | | |
|------|------|------|-------|------|------|
| 4582 | 208 | 102 | 5957 | 270 | 133 |
| 7587 | 202 | 269 | 9863 | 262 | 350 |
| 4589 | 96 | -91 | 5965 | 124 | -118 |
| 4099 | 138 | -32 | 5328 | 179 | -41 |
| 3472 | 115 | 199 | 4514 | 149 | 258 |
| 4243 | 170 | 19 | 5516 | 221 | 25 |
| 2873 | 162 | 47 | 3735 | 210 | 62 |
| 6526 | 254 | -132 | 8484 | 331 | -172 |
| 3027 | 183 | -82 | 3935 | 239 | -107 |
| 4678 | 314 | 94 | 6081 | 408 | 122 |
| 5474 | 291 | -370 | 7116 | 379 | -480 |
| 4387 | 134 | 141 | 5703 | 175 | 183 |
| 5737 | 276 | 111 | 7458 | 359 | 144 |
| 5299 | 201 | 1 | 6889 | 261 | 2 |
| 5798 | 157 | 200 | 7537 | 205 | 260 |
| 4625 | 332 | 240 | 6013 | 432 | 312 |
| 3026 | 188 | -80 | 3934 | 244 | -104 |
| 3976 | 76 | -50 | 5169 | 99 | -65 |
| 4646 | 129 | -121 | 6040 | 167 | -157 |
| 5375 | 190 | -95 | 6988 | 246 | -123 |
| 4143 | 142 | -82 | 5386 | 184 | -107 |
| 4125 | 141 | 74 | 5362 | 183 | 96 |
| 4261 | 244 | -71 | 5539 | 317 | -92 |
| 3833 | 117 | 84 | 4983 | 152 | 110 |
| 4746 | 87 | 44 | 6170 | 113 | 58 |
| 7070 | 125 | -120 | 9191 | 163 | -156 |
| 6717 | 69 | 44 | 8732 | 89 | 58 |
| 7213 | -32 | 265 | 9377 | -42 | 345 |
| 7480 | 117 | 118 | 9724 | 152 | 153 |
| 6753 | 139 | -245 | 8779 | 181 | -318 |
| 6867 | 9 | 132 | 8927 | 12 | 171 |
| 7041 | 135 | 5 | 9153 | 176 | 7 |
| 8253 | 176 | 47 | 10729 | 229 | 61 |
| 7682 | 110 | -19 | 9987 | 143 | -25 |
| 6859 | 4 | -301 | 8917 | 6 | -392 |
| 7261 | -112 | -393 | 9440 | -146 | -511 |
| 7086 | 183 | 188 | 9212 | 238 | 244 |
| 7153 | 309 | 25 | 9298 | 402 | 32 |
| 6034 | 197 | -295 | 7844 | 256 | -384 |
| 7398 | 293 | 108 | 9617 | 381 | 140 |
| 4114 | -136 | -574 | 5349 | -177 | -747 |
| 5979 | 183 | -266 | 7773 | 238 | -346 |
| 6358 | 187 | 96 | 8266 | 244 | 125 |
| 6396 | 266 | -215 | 8314 | 346 | -280 |
| 5833 | 21 | 21 | 7582 | 27 | 27 |
| 6926 | 230 | 68 | 9004 | 300 | 89 |
| 6560 | 84 | -162 | 8529 | 109 | -210 |

| | | | | | |
|------|------|------|-------|------|------|
| 7192 | 244 | -298 | 9350 | 317 | -387 |
| 4803 | 35 | -31 | 6243 | 46 | -40 |
| 7960 | 401 | -113 | 10348 | 521 | -147 |
| 6181 | 80 | -10 | 8036 | 104 | -13 |
| 6215 | 153 | 48 | 8079 | 199 | 63 |
| 6484 | 158 | -54 | 8429 | 205 | -70 |
| 6701 | 235 | -227 | 8711 | 306 | -295 |
| 4699 | -170 | -532 | 6109 | -221 | -692 |
| 6686 | 165 | -206 | 8691 | 214 | -268 |
| 4408 | -236 | -375 | 5731 | -307 | -488 |
| 4770 | -116 | -555 | 6201 | -150 | -722 |
| 4173 | -259 | -238 | 5425 | -337 | -309 |
| 7166 | 367 | 48 | 9316 | 477 | 63 |
| 6934 | 256 | 117 | 9015 | 333 | 152 |
| 4053 | -38 | -417 | 5269 | -49 | -543 |
| 7820 | 425 | -30 | 10166 | 552 | -39 |
| 4748 | -115 | -496 | 6172 | -149 | -645 |
| 6441 | 147 | -29 | 8373 | 191 | -38 |
| 6307 | 310 | -33 | 8199 | 404 | -43 |
| 6149 | 315 | -124 | 7994 | 410 | -161 |
| 5548 | 86 | -262 | 7212 | 112 | -341 |
| 4595 | -151 | -149 | 5973 | -196 | -194 |
| 4972 | 204 | -358 | 6463 | 265 | -465 |
| 5574 | 259 | 47 | 7247 | 337 | 62 |
| 5499 | 208 | 63 | 7149 | 271 | 82 |
| 6132 | 138 | -105 | 7971 | 180 | -136 |
| 6151 | 299 | -7 | 7996 | 389 | -9 |
| 4966 | 157 | -310 | 6456 | 204 | -403 |
| 3733 | -295 | -270 | 4853 | -384 | -350 |
| 3650 | -78 | -381 | 4745 | -101 | -495 |
| 3440 | -90 | -272 | 4471 | -117 | -353 |
| 6467 | 342 | 52 | 8407 | 444 | 68 |
| 5557 | 126 | -316 | 7224 | 164 | -411 |
| 3312 | -130 | -261 | 4306 | -169 | -339 |
| 5366 | 29 | -44 | 6975 | 38 | -57 |
| 5426 | 187 | 45 | 7053 | 243 | 58 |
| 5546 | 236 | 81 | 7209 | 307 | 106 |
| 4130 | -251 | -200 | 5369 | -326 | -260 |
| 4843 | 135 | -427 | 6296 | 175 | -555 |
| 4948 | 147 | -95 | 6432 | 192 | -124 |
| 6070 | 272 | 57 | 7891 | 354 | 75 |
| 3364 | -109 | -292 | 4373 | -142 | -380 |
| 3021 | -86 | -16 | 3928 | -112 | -21 |
| 4718 | 76 | -436 | 6133 | 99 | -567 |
| 4396 | 84 | -416 | 5715 | 110 | -541 |
| 6715 | 453 | -233 | 8729 | 589 | -303 |
| 5992 | 241 | 5 | 7789 | 313 | 7 |

| | | | | | |
|------|------|------|-------|------|------|
| 5134 | 134 | -366 | 6674 | 175 | -476 |
| 3323 | -94 | 6 | 4320 | -122 | 8 |
| 5900 | 277 | 22 | 7670 | 360 | 29 |
| 6473 | 358 | 15 | 8414 | 466 | 20 |
| 5867 | 264 | -50 | 7628 | 343 | -65 |
| 6031 | 306 | 38 | 7840 | 398 | 49 |
| 5849 | 167 | 15 | 7603 | 217 | 20 |
| 6059 | 197 | 9 | 7877 | 255 | 11 |
| 6091 | 312 | -123 | 7918 | 405 | -160 |
| 3614 | -109 | -166 | 4698 | -141 | -215 |
| 5169 | 88 | -51 | 6720 | 115 | -66 |
| 5131 | 155 | -184 | 6671 | 201 | -239 |
| 7958 | 319 | 200 | 10345 | 415 | 261 |
| 3200 | -103 | -225 | 4160 | -134 | -293 |
| 3672 | -173 | -274 | 4773 | -224 | -356 |
| 5356 | 125 | -156 | 6963 | 163 | -203 |
| 5293 | 37 | -238 | 6880 | 48 | -309 |
| 5385 | 241 | 75 | 7001 | 313 | 97 |
| 5723 | 251 | 40 | 7440 | 326 | 52 |
| 5811 | 257 | -36 | 7555 | 334 | -47 |
| 5907 | 249 | -29 | 7679 | 324 | -38 |
| 4012 | -127 | -418 | 5216 | -165 | -544 |
| 6663 | 116 | -156 | 8662 | 151 | -203 |
| 2155 | -5 | 10 | 2801 | -7 | 14 |
| 4401 | 32 | -13 | 5722 | 42 | -17 |
| 4789 | 89 | 156 | 6226 | 116 | 203 |
| 3014 | 64 | 143 | 3918 | 83 | 186 |
| 1301 | -35 | -59 | 1691 | -45 | -76 |
| 2894 | 62 | 140 | 3762 | 81 | 181 |
| 1593 | -42 | -54 | 2070 | -55 | -70 |
| 2002 | -28 | 21 | 2602 | -37 | 27 |
| 1669 | -30 | -70 | 2170 | -39 | -90 |
| 4296 | 31 | 39 | 5585 | 40 | 51 |
| 1545 | -16 | -9 | 2008 | -21 | -12 |
| 2302 | -11 | -31 | 2993 | -14 | -40 |
| 2465 | -23 | -55 | 3204 | -30 | -72 |
| 4567 | 99 | -152 | 5937 | 128 | -197 |
| 3601 | 96 | -63 | 4681 | 125 | -81 |
| 4021 | 102 | 88 | 5228 | 133 | 114 |
| 3712 | 107 | 72 | 4826 | 139 | 93 |
| 1439 | -35 | 76 | 1871 | -46 | 98 |
| 1944 | -50 | -28 | 2527 | -65 | -36 |
| 5294 | 110 | 45 | 6882 | 143 | 58 |
| 1909 | -11 | -4 | 2482 | -14 | -5 |
| 4783 | 125 | 77 | 6218 | 163 | 100 |
| 4482 | 129 | 76 | 5826 | 168 | 99 |
| 3129 | 44 | -27 | 4068 | 57 | -36 |

| | | | | | |
|------|------|------|------|------|------|
| 1563 | -22 | 21 | 2031 | -28 | 28 |
| 2010 | -35 | -15 | 2613 | -46 | -20 |
| 5046 | 117 | -21 | 6560 | 153 | -27 |
| 4588 | 107 | -147 | 5965 | 138 | -191 |
| 4601 | 113 | -119 | 5982 | 146 | -154 |
| 1590 | -63 | -36 | 2067 | -82 | -46 |
| 3269 | 51 | -48 | 4250 | 66 | -62 |
| 3098 | 48 | -157 | 4027 | 63 | -204 |
| 1113 | -21 | -12 | 1448 | -27 | -15 |
| 2570 | -22 | -64 | 3341 | -28 | -83 |
| 1847 | -51 | -24 | 2401 | -67 | -31 |
| 4824 | 138 | 78 | 6271 | 180 | 101 |
| 1720 | -30 | 64 | 2236 | -39 | 84 |
| 4034 | 97 | 149 | 5245 | 127 | 193 |
| 2498 | -20 | -69 | 3248 | -26 | -90 |
| 4001 | 105 | 133 | 5201 | 137 | 173 |
| 4086 | 106 | -127 | 5311 | 138 | -165 |
| 4002 | 99 | -148 | 5203 | 129 | -193 |
| 1263 | -42 | 45 | 1642 | -55 | 58 |
| 3119 | 34 | -6 | 4054 | 44 | -8 |
| 3544 | 95 | -109 | 4607 | 123 | -141 |
| 1848 | -35 | 11 | 2402 | -46 | 14 |
| 4575 | 152 | -40 | 5948 | 198 | -52 |
| 5322 | 145 | -95 | 6919 | 189 | -124 |
| 4972 | 95 | 232 | 6464 | 123 | 302 |
| 3896 | -42 | 104 | 5064 | -55 | 135 |
| 4219 | -105 | 221 | 5485 | -136 | 287 |
| 4529 | 119 | 125 | 5887 | 155 | 163 |
| 4188 | -105 | 242 | 5445 | -136 | 315 |
| 4730 | 163 | -80 | 6148 | 212 | -104 |
| 4625 | 127 | 126 | 6012 | 166 | 164 |
| 3392 | -97 | 114 | 4410 | -126 | 148 |
| 4450 | 144 | -42 | 5786 | 187 | -54 |
| 5554 | 102 | 241 | 7221 | 133 | 313 |
| 3742 | 149 | -9 | 4865 | 194 | -12 |
| 2709 | -70 | -35 | 3522 | -91 | -45 |
| 3540 | 153 | 72 | 4602 | 199 | 94 |
| 4151 | 129 | 53 | 5396 | 168 | 69 |
| 3616 | 27 | -262 | 4701 | 35 | -340 |
| 3369 | -76 | -181 | 4380 | -99 | -236 |
| 3637 | 68 | -102 | 4728 | 88 | -133 |
| 2886 | 16 | -169 | 3752 | 20 | -219 |
| 2130 | -19 | 27 | 2768 | -25 | 35 |
| 3255 | 54 | 46 | 4232 | 71 | 60 |
| 1988 | -3 | -19 | 2584 | -4 | -25 |
| 1616 | -20 | -23 | 2100 | -26 | -30 |
| 1761 | -2 | -44 | 2289 | -2 | -58 |

| | | | | | |
|------|------|------|------|------|------|
| 3619 | 60 | 121 | 4705 | 78 | 157 |
| 2454 | 37 | 73 | 3190 | 48 | 94 |
| 2832 | 17 | -2 | 3682 | 23 | -2 |
| 2794 | 0 | 86 | 3632 | 0 | 111 |
| 2201 | 41 | 78 | 2862 | 54 | 102 |
| 3973 | 97 | -43 | 5164 | 127 | -56 |
| 3526 | 97 | 18 | 4584 | 126 | 24 |
| 2725 | 39 | -81 | 3543 | 50 | -105 |
| 1807 | -25 | -7 | 2349 | -32 | -10 |
| 2068 | -18 | 67 | 2689 | -23 | 87 |
| 4216 | 80 | 78 | 5481 | 104 | 102 |
| 2500 | -33 | -72 | 3250 | -43 | -93 |
| 3592 | 82 | 24 | 4670 | 106 | 32 |
| 3902 | 95 | 79 | 5073 | 124 | 103 |
| 1953 | -42 | 19 | 2539 | -54 | 25 |
| 4230 | 119 | -51 | 5500 | 155 | -66 |
| 1763 | -17 | 49 | 2293 | -22 | 63 |
| 1565 | -14 | 37 | 2034 | -19 | 48 |
| 2082 | -30 | 0 | 2707 | -39 | 0 |
| 4682 | 91 | -34 | 6086 | 118 | -45 |
| 4291 | 90 | -77 | 5578 | 118 | -100 |
| 3525 | 43 | -81 | 4583 | 56 | -106 |
| 2464 | -32 | -53 | 3203 | -42 | -69 |
| 1608 | -32 | -2 | 2091 | -42 | -3 |
| 3976 | 93 | 62 | 5168 | 120 | 81 |
| 3609 | 57 | -110 | 4692 | 74 | -143 |
| 4530 | 144 | -35 | 5889 | 187 | -45 |
| 3589 | 88 | -82 | 4666 | 115 | -107 |
| 1757 | -53 | 31 | 2284 | -68 | 40 |
| 4336 | 137 | 40 | 5637 | 177 | 51 |
| 4581 | 169 | -15 | 5955 | 220 | -19 |
| 3376 | -76 | 217 | 4389 | -99 | 283 |
| 4004 | -92 | 441 | 5206 | -120 | 574 |
| 3945 | 141 | -56 | 5128 | 183 | -72 |
| 4531 | 115 | 136 | 5891 | 150 | 176 |
| 5323 | -41 | 247 | 6920 | -53 | 321 |
| 4352 | -159 | 230 | 5658 | -206 | 299 |
| 5294 | -110 | 83 | 6882 | -143 | 107 |
| 6321 | -63 | 145 | 8217 | -82 | 188 |
| 5568 | 96 | -4 | 7239 | 125 | -6 |
| 5138 | 104 | 293 | 6679 | 136 | 380 |
| 4999 | 139 | -156 | 6498 | 180 | -203 |
| 5048 | 118 | -32 | 6562 | 154 | -42 |
| 5064 | 169 | -210 | 6584 | 220 | -273 |
| 5050 | 137 | -114 | 6566 | 179 | -148 |
| 4616 | -65 | 210 | 6001 | -85 | 274 |
| 5402 | 103 | -13 | 7023 | 134 | -17 |

| | | | | | |
|------|-----|------|------|-----|------|
| 3668 | -41 | 139 | 4769 | -53 | 181 |
| 6849 | 23 | 26 | 8904 | 30 | 33 |
| 5113 | 44 | 225 | 6647 | 57 | 293 |
| 1439 | -35 | 58 | 1870 | -46 | 75 |
| 1268 | -30 | 74 | 1649 | -39 | 96 |
| 3250 | 109 | 34 | 4225 | 142 | 44 |
| 1805 | 15 | -71 | 2347 | 19 | -92 |
| 1312 | -28 | -28 | 1706 | -37 | -37 |
| 4639 | 92 | -18 | 6031 | 119 | -23 |
| 1503 | -49 | -7 | 1954 | -63 | -9 |
| 1502 | -49 | -6 | 1953 | -64 | -8 |
| 3097 | 107 | 41 | 4026 | 139 | 53 |
| 1962 | -14 | -32 | 2550 | -18 | -42 |
| 2787 | 69 | -56 | 3623 | 90 | -73 |
| 3263 | 106 | 79 | 4242 | 138 | 102 |
| 2956 | 105 | -68 | 3843 | 136 | -88 |
| 4858 | 103 | 6 | 6315 | 135 | 8 |
| 1742 | -24 | -45 | 2265 | -31 | -58 |
| 4485 | 62 | -148 | 5831 | 81 | -193 |
| 4391 | 37 | 14 | 5708 | 48 | 18 |
| 2034 | -4 | -29 | 2645 | -5 | -38 |
| 2274 | 79 | -143 | 2956 | 103 | -187 |
| 2917 | 67 | -69 | 3793 | 88 | -90 |
| 2811 | 101 | -66 | 3654 | 132 | -85 |
| 1944 | 83 | 86 | 2528 | 108 | 112 |
| 1181 | -27 | 16 | 1535 | -35 | 20 |
| 1371 | -35 | 41 | 1783 | -45 | 54 |
| 1804 | -37 | -15 | 2345 | -48 | -20 |
| 4505 | 38 | 15 | 5856 | 50 | 19 |
| 2972 | 95 | -27 | 3864 | 123 | -35 |
| 4610 | 90 | 122 | 5992 | 118 | 158 |
| 5001 | 96 | 5 | 6501 | 124 | 7 |
| 1863 | -25 | -53 | 2422 | -32 | -68 |
| 2277 | -4 | -17 | 2961 | -5 | -22 |
| 3267 | 96 | -66 | 4247 | 124 | -86 |
| 4799 | 93 | 70 | 6239 | 121 | 91 |
| 1624 | -37 | 21 | 2111 | -48 | 27 |
| 2719 | 45 | -150 | 3535 | 59 | -195 |
| 1305 | -44 | -15 | 1697 | -57 | -20 |
| 3526 | 70 | 79 | 4583 | 91 | 103 |
| 1573 | -20 | -40 | 2045 | -26 | -52 |
| 1699 | -16 | 10 | 2208 | -21 | 14 |
| 4537 | 118 | 67 | 5897 | 154 | 87 |
| 1414 | -27 | 16 | 1838 | -35 | 21 |
| 3780 | 76 | -164 | 4914 | 98 | -214 |
| 3837 | 86 | 86 | 4988 | 112 | 112 |
| 3364 | 68 | 77 | 4373 | 88 | 100 |

| | | | | | |
|------|------|------|------|------|------|
| 2523 | 3 | -18 | 3279 | 4 | -23 |
| 1948 | -3 | 30 | 2532 | -4 | 39 |
| 4000 | 105 | -156 | 5200 | 136 | -203 |
| 3807 | 104 | 63 | 4949 | 135 | 82 |
| 1881 | -3 | 5 | 2445 | -3 | 6 |
| 2840 | 57 | 47 | 3692 | 74 | 60 |
| 3065 | -23 | 91 | 3984 | -29 | 118 |
| 3020 | 10 | 83 | 3926 | 13 | 108 |
| 2261 | -4 | -10 | 2940 | -5 | -14 |
| 2803 | 4 | 39 | 3643 | 5 | 51 |
| 1694 | 5 | 87 | 2203 | 7 | 113 |
| 1687 | -15 | 54 | 2194 | -19 | 71 |
| 1697 | -15 | 46 | 2206 | -20 | 59 |
| 4282 | 86 | 154 | 5567 | 111 | 201 |
| 4186 | 128 | 131 | 5442 | 167 | 170 |
| 4962 | 110 | -52 | 6450 | 143 | -67 |
| 4476 | 111 | 128 | 5818 | 145 | 166 |
| 3003 | 46 | 0 | 3904 | 60 | 0 |
| 1339 | -21 | 13 | 1741 | -27 | 17 |
| 1941 | 9 | -81 | 2524 | 11 | -106 |
| 2213 | -16 | 47 | 2877 | -21 | 61 |
| 1900 | -24 | 92 | 2470 | -32 | 120 |
| 4044 | 48 | 15 | 5257 | 63 | 20 |
| 2918 | 69 | -64 | 3794 | 89 | -83 |
| 4229 | 120 | 65 | 5497 | 156 | 85 |
| 1236 | -36 | -66 | 1607 | -47 | -86 |
| 1735 | -15 | -33 | 2256 | -20 | -43 |
| 4317 | 127 | 74 | 5612 | 165 | 96 |
| 4455 | 165 | -67 | 5792 | 214 | -87 |
| 5208 | 66 | -66 | 6770 | 86 | -86 |
| 4375 | -114 | -302 | 5688 | -149 | -393 |
| 4608 | 156 | -80 | 5991 | 203 | -104 |
| 3467 | -91 | -117 | 4507 | -118 | -152 |
| 4835 | -3 | 17 | 6285 | -4 | 22 |
| 3563 | -81 | -312 | 4632 | -105 | -406 |
| 5880 | 3 | 126 | 7644 | 3 | 163 |
| 4053 | 75 | -20 | 5269 | 97 | -26 |
| 4827 | 206 | -73 | 6275 | 268 | -95 |
| 4664 | 81 | -110 | 6064 | 105 | -143 |
| 4821 | 66 | -322 | 6267 | 85 | -418 |
| 4354 | 42 | -323 | 5660 | 54 | -420 |
| 4862 | 170 | 84 | 6321 | 221 | 109 |
| 4975 | 226 | 15 | 6467 | 293 | 20 |
| 4206 | 83 | -124 | 5468 | 107 | -162 |
| 3501 | -115 | -157 | 4551 | -149 | -204 |
| 7007 | 89 | -48 | 9109 | 116 | -62 |
| 2364 | 75 | 43 | 3073 | 97 | 56 |

| | | | | | |
|------|-----|------|-------|-----|------|
| 6565 | 30 | -216 | 8534 | 38 | -281 |
| 5641 | 54 | 139 | 7334 | 70 | 181 |
| 3307 | 88 | -35 | 4299 | 114 | -46 |
| 2908 | 101 | -33 | 3781 | 131 | -43 |
| 4277 | 98 | -40 | 5560 | 127 | -52 |
| 3480 | 92 | 114 | 4524 | 119 | 148 |
| 7811 | 106 | 20 | 10154 | 138 | 25 |
| 5409 | 37 | 27 | 7031 | 48 | 36 |
| 2769 | 62 | -29 | 3599 | 80 | -37 |
| 7583 | 67 | -170 | 9858 | 87 | -221 |
| 1836 | -28 | -58 | 2386 | -36 | -75 |
| 2110 | 72 | -24 | 2743 | 93 | -31 |
| 1592 | -32 | 25 | 2070 | -42 | 33 |
| 1877 | 0 | -60 | 2441 | 0 | -78 |
| 2379 | 88 | 28 | 3093 | 114 | 36 |
| 2482 | 77 | 25 | 3227 | 101 | 32 |
| 2017 | 64 | -56 | 2622 | 83 | -73 |
| 1343 | -72 | -33 | 1746 | -94 | -42 |
| 1916 | 7 | -35 | 2491 | 9 | -46 |
| 1481 | -59 | -55 | 1925 | -77 | -71 |
| 1697 | -31 | 48 | 2206 | -41 | 62 |
| 2323 | 67 | 53 | 3020 | 87 | 69 |
| 2048 | 34 | 19 | 2663 | 44 | 25 |
| 1710 | -73 | 10 | 2223 | -94 | 13 |
| 1891 | -66 | 37 | 2459 | -86 | 48 |
| 2206 | 48 | 70 | 2867 | 62 | 91 |
| 2332 | 83 | -19 | 3031 | 107 | -24 |
| 2200 | 56 | 10 | 2860 | 73 | 13 |
| 2312 | 74 | -11 | 3006 | 97 | -15 |
| 1953 | -26 | 63 | 2539 | -33 | 81 |
| 3335 | 89 | -71 | 4336 | 116 | -92 |
| 6279 | 24 | 0 | 8163 | 32 | -1 |
| 7408 | 92 | 129 | 9631 | 120 | 167 |
| 3005 | 110 | 95 | 3906 | 143 | 124 |
| 7738 | 137 | 63 | 10059 | 178 | 82 |
| 3638 | 62 | 47 | 4729 | 81 | 61 |
| 4956 | 77 | 91 | 6443 | 100 | 119 |
| 5975 | 83 | -96 | 7768 | 108 | -125 |
| 5564 | 45 | -59 | 7233 | 59 | -77 |
| 3318 | 70 | -155 | 4313 | 91 | -202 |
| 2162 | 110 | 11 | 2811 | 143 | 14 |
| 7057 | 66 | 49 | 9174 | 85 | 64 |
| 1435 | 160 | -194 | 1866 | 208 | -252 |
| 1265 | -46 | 74 | 1644 | -59 | 97 |
| 1409 | -37 | -128 | 1832 | -48 | -167 |
| 1164 | -42 | -16 | 1513 | -54 | -21 |
| 1495 | 48 | -214 | 1943 | 63 | -278 |

| | | | | | |
|------|------|------|------|------|------|
| 1344 | -52 | 71 | 1747 | -68 | 92 |
| 1209 | 186 | -170 | 1571 | 242 | -222 |
| 1732 | 51 | -235 | 2251 | 66 | -305 |
| 852 | 193 | 100 | 1107 | 251 | 130 |
| 978 | 192 | 145 | 1271 | 250 | 189 |
| 1455 | -72 | -75 | 1892 | -94 | -98 |
| 1355 | -37 | 5 | 1761 | -48 | 7 |
| 1800 | -4 | 208 | 2341 | -5 | 271 |
| 1384 | -12 | 85 | 1799 | -15 | 110 |
| 1494 | 104 | 192 | 1943 | 135 | 249 |
| 1626 | 134 | 108 | 2113 | 174 | 140 |
| 911 | -128 | 69 | 1185 | -167 | 89 |
| 982 | -126 | 85 | 1277 | -164 | 110 |
| 1076 | -116 | 23 | 1399 | -151 | 30 |
| 1186 | -111 | -17 | 1541 | -145 | -22 |
| 1023 | -115 | 18 | 1330 | -149 | 23 |
| 1325 | -20 | 91 | 1722 | -26 | 118 |
| 1549 | 54 | 155 | 2013 | 70 | 201 |
| 1679 | 95 | 197 | 2183 | 124 | 256 |
| 1341 | -51 | 9 | 1744 | -67 | 12 |
| 1171 | -15 | 94 | 1523 | -19 | 122 |
| 1886 | -39 | -86 | 2452 | -51 | -111 |
| 1549 | -66 | 71 | 2013 | -85 | 92 |
| 1812 | 21 | -152 | 2355 | 27 | -198 |
| 1612 | -50 | -135 | 2096 | -65 | -175 |
| 1567 | 46 | -207 | 2037 | 60 | -269 |
| 1479 | -45 | 71 | 1923 | -58 | 93 |
| 1579 | -35 | 102 | 2052 | -45 | 133 |
| 1910 | -56 | -86 | 2482 | -73 | -112 |
| 1713 | -54 | -25 | 2226 | -71 | -32 |
| 1271 | -108 | 3 | 1652 | -141 | 4 |
| 1209 | -83 | 81 | 1572 | -107 | 105 |
| 1137 | -80 | 44 | 1479 | -105 | 57 |
| 844 | -75 | -40 | 1098 | -98 | -52 |
| 1572 | -97 | 30 | 2044 | -127 | 39 |
| 1510 | -91 | 79 | 1963 | -118 | 103 |
| 1184 | -94 | -39 | 1539 | -122 | -51 |
| 1417 | -102 | 25 | 1842 | -132 | 32 |
| 1063 | -82 | 30 | 1382 | -106 | 39 |
| 1219 | -95 | 5 | 1585 | -124 | 6 |
| 1205 | -104 | -4 | 1566 | -135 | -6 |
| 776 | 198 | -95 | 1009 | 258 | -124 |
| 1437 | -39 | 35 | 1868 | -51 | 45 |
| 1100 | 175 | -48 | 1430 | 228 | -63 |
| 1009 | -32 | -31 | 1311 | -41 | -40 |
| 1393 | 48 | -225 | 1810 | 63 | -292 |
| 1198 | -41 | 68 | 1558 | -53 | 89 |

| | | | | | |
|------|------|------|------|------|------|
| 1209 | -33 | -21 | 1571 | -42 | -28 |
| 1150 | 5 | -77 | 1495 | 7 | -100 |
| 886 | 183 | -139 | 1152 | 238 | -181 |
| 1653 | 114 | -122 | 2148 | 149 | -159 |
| 938 | 170 | -66 | 1220 | 221 | -85 |
| 1390 | -28 | 129 | 1807 | -36 | 168 |
| 1181 | -67 | -83 | 1535 | -87 | -108 |
| 1576 | 141 | 106 | 2049 | 183 | 137 |
| 1521 | 157 | 15 | 1978 | 204 | 20 |
| 1418 | -51 | -41 | 1844 | -66 | -54 |
| 1022 | 162 | -1 | 1329 | 210 | -1 |
| 1656 | 5 | 202 | 2152 | 6 | 262 |
| 1934 | 104 | 124 | 2514 | 135 | 161 |
| 874 | 145 | 62 | 1136 | 189 | 81 |
| 850 | 196 | 76 | 1105 | 255 | 99 |
| 1443 | 154 | -9 | 1876 | 200 | -11 |
| 1479 | -82 | -40 | 1923 | -106 | -51 |
| 1373 | -25 | -74 | 1785 | -33 | -96 |
| 1316 | -55 | 51 | 1711 | -71 | 66 |
| 1445 | -115 | -8 | 1878 | -149 | -11 |
| 1359 | -114 | -59 | 1767 | -148 | -76 |
| 1391 | -100 | -69 | 1808 | -130 | -90 |
| 1095 | -71 | -97 | 1423 | -92 | -126 |
| 1495 | -44 | 16 | 1943 | -57 | 21 |
| 1716 | -83 | 10 | 2231 | -108 | 13 |
| 1604 | -89 | -6 | 2086 | -116 | -8 |
| 1472 | -62 | -38 | 1914 | -81 | -49 |
| 1590 | -112 | -37 | 2067 | -146 | -48 |
| 1561 | -95 | -49 | 2029 | -124 | -63 |
| 1507 | -69 | 26 | 1959 | -89 | 34 |
| 1408 | -24 | -161 | 1831 | -31 | -209 |
| 1786 | -80 | 7 | 2322 | -104 | 9 |
| 1401 | -92 | -46 | 1821 | -120 | -60 |
| 2064 | -5 | 81 | 2684 | -6 | 106 |
| 2201 | -5 | 31 | 2861 | -7 | 41 |
| 1799 | 32 | -21 | 2338 | 41 | -27 |
| 1692 | -113 | 53 | 2199 | -147 | 69 |
| 2199 | 7 | 68 | 2859 | 9 | 88 |
| 1356 | 5 | -79 | 1762 | 7 | -103 |
| 2002 | -79 | 67 | 2603 | -103 | 88 |
| 1293 | -25 | -14 | 1680 | -33 | -18 |
| 2979 | 7 | 108 | 3873 | 10 | 141 |
| 1349 | -134 | -10 | 1753 | -175 | -14 |
| 2217 | -46 | 32 | 2881 | -59 | 42 |
| 2995 | 10 | 194 | 3894 | 13 | 252 |
| 2709 | -9 | 157 | 3521 | -12 | 204 |
| 1280 | -87 | -28 | 1663 | -113 | -37 |

| | | | | | |
|------|------|------|-------|------|------|
| 1335 | -131 | -28 | 1736 | -170 | -36 |
| 2455 | -26 | 97 | 3192 | -34 | 126 |
| 825 | -140 | -101 | 1072 | -183 | -131 |
| 1285 | -144 | -50 | 1671 | -187 | -66 |
| 1565 | -17 | 8 | 2034 | -22 | 11 |
| 1506 | -102 | 50 | 1958 | -132 | 65 |
| 1899 | -14 | 89 | 2469 | -18 | 116 |
| 1609 | -70 | -21 | 2091 | -91 | -27 |
| 2709 | -2 | 77 | 3522 | -3 | 100 |
| 2399 | 96 | -93 | 3119 | 125 | -121 |
| 1760 | 86 | 106 | 2288 | 112 | 138 |
| 6111 | 237 | 300 | 7944 | 308 | 390 |
| 2794 | 81 | -12 | 3633 | 106 | -16 |
| 2964 | 54 | 89 | 3853 | 70 | 116 |
| 6096 | 385 | 59 | 7924 | 501 | 76 |
| 1199 | 110 | 14 | 1559 | 143 | 18 |
| 3044 | 79 | -203 | 3957 | 103 | -264 |
| 5659 | -48 | -107 | 7356 | -63 | -139 |
| 5045 | -39 | -1 | 6559 | -51 | -2 |
| 1792 | 122 | 29 | 2330 | 159 | 38 |
| 5524 | 70 | -106 | 7181 | 91 | -138 |
| 7762 | -16 | -403 | 10090 | -20 | -524 |
| 2065 | 88 | -23 | 2685 | 114 | -30 |
| 1937 | 107 | 35 | 2518 | 139 | 46 |
| 1599 | 60 | 45 | 2079 | 78 | 58 |
| 1608 | -26 | 52 | 2090 | -34 | 68 |
| 1414 | -78 | 26 | 1839 | -101 | 34 |
| 2114 | 100 | -15 | 2749 | 130 | -19 |
| 1775 | -5 | 110 | 2307 | -7 | 144 |
| 2047 | 62 | 85 | 2661 | 80 | 111 |
| 1904 | -61 | 42 | 2476 | -79 | 54 |
| 1557 | 101 | 4 | 2025 | 132 | 5 |
| 2033 | 99 | 36 | 2642 | 128 | 47 |
| 1276 | 16 | -97 | 1659 | 21 | -126 |
| 1055 | -60 | -39 | 1372 | -79 | -51 |
| 1275 | 74 | -60 | 1657 | 97 | -78 |
| 1831 | 83 | -17 | 2381 | 108 | -23 |
| 1874 | -19 | -62 | 2436 | -24 | -80 |
| 1194 | -44 | 4 | 1552 | -58 | 6 |
| 1644 | 113 | -27 | 2138 | 146 | -34 |
| 1285 | -71 | -30 | 1670 | -92 | -39 |
| 1819 | 16 | -33 | 2365 | 20 | -42 |
| 3015 | 98 | 106 | 3919 | 128 | 138 |
| 1692 | 120 | -16 | 2199 | 157 | -21 |
| 1544 | 123 | -50 | 2008 | 160 | -65 |
| 5988 | 72 | -372 | 7785 | 94 | -484 |
| 2595 | 38 | -100 | 3373 | 50 | -131 |

| | | | | | |
|------|------|------|------|------|------|
| 7012 | 94 | -132 | 9115 | 122 | -172 |
| 1886 | 142 | 87 | 2452 | 184 | 113 |
| 2386 | 122 | -13 | 3102 | 158 | -17 |
| 6101 | 60 | 66 | 7931 | 78 | 86 |
| 5183 | 52 | 79 | 6738 | 67 | 103 |
| 5533 | 25 | -336 | 7193 | 33 | -437 |
| 1968 | 92 | 27 | 2558 | 120 | 35 |
| 5172 | 326 | -40 | 6723 | 423 | -52 |
| 790 | -41 | 53 | 1026 | -53 | 68 |
| 102 | -82 | 104 | 132 | -106 | 136 |
| 3479 | 42 | 72 | 4523 | 54 | 94 |
| 4029 | 109 | -50 | 5237 | 141 | -65 |
| 1282 | 85 | 61 | 1666 | 111 | 79 |
| 524 | -72 | 151 | 681 | -93 | 196 |
| 632 | 106 | 27 | 822 | 138 | 35 |
| 1691 | 44 | 77 | 2198 | 57 | 101 |
| 2110 | 6 | 80 | 2743 | 8 | 104 |
| 1054 | -7 | 48 | 1370 | -8 | 62 |
| 3293 | 53 | 45 | 4281 | 69 | 58 |
| 3792 | 188 | 74 | 4929 | 244 | 96 |
| 3857 | 165 | 297 | 5014 | 214 | 387 |
| 3275 | 77 | -35 | 4258 | 100 | -46 |
| 3602 | 73 | -11 | 4683 | 95 | -15 |
| 3853 | 77 | 25 | 5009 | 101 | 33 |
| 2522 | 46 | 30 | 3279 | 60 | 39 |
| 2144 | 46 | -97 | 2788 | 59 | -127 |
| 3658 | 113 | 51 | 4756 | 146 | 67 |
| 3389 | 53 | 134 | 4406 | 69 | 175 |
| 1976 | 61 | -149 | 2569 | 79 | -194 |
| 2722 | 145 | 198 | 3539 | 188 | 257 |
| 2655 | 55 | -45 | 3452 | 71 | -58 |
| 2746 | -22 | 37 | 3570 | -28 | 47 |
| 581 | 60 | 66 | 755 | 78 | 85 |
| 447 | -110 | 320 | 581 | -143 | 416 |
| 3551 | 218 | 107 | 4617 | 283 | 138 |
| 1634 | 13 | 73 | 2125 | 17 | 95 |
| 3686 | 194 | 105 | 4792 | 253 | 136 |
| 1235 | -49 | 107 | 1606 | -64 | 139 |
| 1044 | -88 | 345 | 1357 | -114 | 449 |
| 3798 | 136 | 83 | 4937 | 176 | 108 |
| 952 | -57 | 146 | 1238 | -74 | 190 |
| 3659 | 221 | 85 | 4757 | 287 | 111 |
| 1688 | 39 | -85 | 2194 | 50 | -111 |
| 2949 | 51 | 67 | 3833 | 66 | 87 |
| 2233 | 46 | -6 | 2903 | 60 | -7 |
| 800 | -19 | 43 | 1039 | -25 | 56 |
| 3283 | 46 | 41 | 4268 | 60 | 53 |

| | | | | | |
|------|-----|------|------|-----|------|
| 1506 | 62 | 124 | 1958 | 80 | 161 |
| 2173 | 128 | 130 | 2824 | 166 | 170 |
| 1837 | 47 | -149 | 2389 | 61 | -193 |
| 2816 | 44 | 42 | 3661 | 57 | 54 |
| 1531 | 58 | 120 | 1990 | 76 | 156 |
| 3566 | 139 | 51 | 4636 | 181 | 66 |
| 1809 | 34 | 95 | 2352 | 44 | 124 |
| 1377 | 118 | 160 | 1790 | 154 | 208 |
| 2328 | 122 | -59 | 3027 | 158 | -77 |
| 1615 | 140 | -22 | 2100 | 183 | -29 |
| 1110 | 134 | 38 | 1442 | 174 | 50 |
| 1476 | 111 | 43 | 1919 | 144 | 56 |
| 1657 | 75 | 43 | 2155 | 97 | 56 |
| 1651 | 122 | 17 | 2146 | 158 | 22 |
| 1426 | -50 | -32 | 1854 | -65 | -41 |
| 864 | 145 | -14 | 1123 | 189 | -19 |
| 1775 | 126 | 29 | 2308 | 163 | 38 |
| 1816 | 9 | 113 | 2361 | 12 | 147 |
| 1301 | -23 | 115 | 1691 | -30 | 149 |
| 1489 | 149 | 18 | 1936 | 193 | 23 |
| 1442 | -63 | 22 | 1874 | -81 | 28 |
| 1739 | 107 | 126 | 2260 | 139 | 164 |
| 1149 | 7 | -74 | 1494 | 10 | -97 |
| 1100 | -51 | -36 | 1430 | -67 | -47 |
| 1439 | 25 | -92 | 1871 | 33 | -119 |
| 1499 | 83 | -61 | 1949 | 108 | -79 |
| 1211 | -35 | 4 | 1574 | -46 | 5 |
| 849 | -34 | -46 | 1104 | -45 | -59 |
| 1070 | 153 | -37 | 1391 | 198 | -48 |
| 1300 | -44 | 22 | 1690 | -57 | 29 |
| 1776 | 117 | -130 | 2308 | 152 | -169 |
| 1680 | 138 | -38 | 2184 | 179 | -50 |
| 1051 | 182 | -76 | 1367 | 237 | -98 |
| 1071 | 130 | 55 | 1392 | 169 | 71 |
| 1344 | 145 | -67 | 1748 | 188 | -87 |
| 1487 | 166 | 38 | 1933 | 216 | 49 |
| 1512 | 144 | -42 | 1966 | 188 | -55 |
| 7676 | 35 | 205 | 9979 | 45 | 266 |
| 6238 | 97 | -26 | 8109 | 126 | -34 |
| 4076 | 118 | 36 | 5298 | 154 | 47 |
| 4235 | 150 | -66 | 5506 | 196 | -86 |
| 5933 | 236 | 56 | 7713 | 307 | 73 |
| 3822 | 96 | 90 | 4968 | 124 | 117 |
| 3818 | 220 | -209 | 4964 | 286 | -272 |
| 5466 | 117 | 6 | 7106 | 152 | 8 |
| 4521 | 225 | 0 | 5878 | 293 | 0 |
| 4746 | 100 | -33 | 6170 | 130 | -42 |

| | | | | | |
|------|-----|------|------|-----|------|
| 4814 | 110 | 102 | 6258 | 143 | 133 |
| 4445 | 85 | 123 | 5778 | 110 | 160 |
| 3861 | 124 | -158 | 5020 | 161 | -206 |
| 5312 | 144 | 351 | 6906 | 187 | 456 |
| 5402 | 219 | -8 | 7023 | 285 | -11 |
| 5859 | 206 | 204 | 7617 | 268 | 265 |
| 5934 | 286 | -29 | 7715 | 371 | -38 |
| 4581 | 136 | -6 | 5956 | 177 | -8 |
| 2989 | 150 | 135 | 3886 | 195 | 175 |
| 5679 | 150 | 163 | 7382 | 196 | 212 |
| 4648 | 126 | -200 | 6043 | 163 | -260 |
| 4383 | 159 | -216 | 5697 | 207 | -281 |
| 4727 | 149 | 89 | 6145 | 194 | 116 |
| 5380 | 279 | -117 | 6994 | 363 | -152 |
| 4804 | 203 | 176 | 6245 | 264 | 228 |
| 4240 | 135 | 9 | 5512 | 176 | 11 |
| 5478 | 291 | -141 | 7122 | 378 | -183 |
| 3790 | 127 | -130 | 4927 | 165 | -169 |
| 3461 | 78 | -109 | 4499 | 101 | -142 |
| 5004 | 96 | -62 | 6505 | 125 | -80 |
| 3758 | 99 | 51 | 4885 | 129 | 67 |
| 5140 | 124 | 221 | 6682 | 162 | 288 |
| 5678 | 198 | -25 | 7381 | 257 | -33 |
| 6535 | 239 | 4 | 8496 | 310 | 6 |
| 5204 | 91 | -53 | 6765 | 118 | -68 |
| 3356 | 123 | 162 | 4363 | 160 | 211 |
| 6046 | 254 | 58 | 7860 | 330 | 76 |
| 4759 | 93 | -205 | 6187 | 120 | -266 |
| 4921 | 258 | -41 | 6397 | 335 | -53 |
| 4582 | 208 | 102 | 5957 | 270 | 133 |
| 7587 | 202 | 269 | 9863 | 262 | 350 |
| 4589 | 96 | -91 | 5965 | 124 | -118 |
| 4099 | 138 | -32 | 5328 | 179 | -41 |
| 3472 | 115 | 199 | 4514 | 149 | 258 |
| 4243 | 170 | 19 | 5516 | 221 | 25 |
| 2873 | 162 | 47 | 3735 | 210 | 62 |
| 6526 | 254 | -132 | 8484 | 331 | -172 |
| 3027 | 183 | -82 | 3935 | 239 | -107 |
| 4678 | 314 | 94 | 6081 | 408 | 122 |
| 5474 | 291 | -370 | 7116 | 379 | -480 |
| 4387 | 134 | 141 | 5703 | 175 | 183 |
| 5737 | 276 | 111 | 7458 | 359 | 144 |
| 5299 | 201 | 1 | 6889 | 261 | 2 |
| 5798 | 157 | 200 | 7537 | 205 | 260 |
| 4625 | 332 | 240 | 6013 | 432 | 312 |
| 3026 | 188 | -80 | 3934 | 244 | -104 |
| 3976 | 76 | -50 | 5169 | 99 | -65 |

| | | | | | |
|------|------|------|------|------|------|
| 4646 | 129 | -121 | 6040 | 167 | -157 |
| 5375 | 190 | -95 | 6988 | 246 | -123 |
| 4143 | 142 | -82 | 5386 | 184 | -107 |
| 4125 | 141 | 74 | 5362 | 183 | 96 |
| 4261 | 244 | -71 | 5539 | 317 | -92 |
| 3833 | 117 | 84 | 4983 | 152 | 110 |
| 4746 | 87 | 44 | 6170 | 113 | 58 |
| 1724 | 171 | -199 | 2241 | 222 | -259 |
| 2492 | 185 | -203 | 3240 | 241 | -264 |
| 1725 | -127 | -38 | 2243 | -165 | -49 |
| 1880 | -150 | -42 | 2444 | -195 | -54 |
| 1814 | 23 | -325 | 2359 | 30 | -423 |
| 3948 | 131 | -43 | 5132 | 170 | -55 |
| 1844 | -160 | -6 | 2397 | -208 | -7 |
| 1399 | -114 | 18 | 1818 | -149 | 23 |
| 1474 | -116 | 55 | 1917 | -151 | 72 |
| 1816 | -116 | -227 | 2361 | -151 | -295 |
| 1324 | -75 | -102 | 1722 | -97 | -133 |
| 1988 | 52 | -255 | 2584 | 67 | -332 |
| 2920 | 236 | 188 | 3796 | 307 | 244 |
| 1607 | -85 | -114 | 2089 | -110 | -149 |
| 1643 | 90 | -304 | 2136 | 117 | -395 |
| 1509 | 87 | -315 | 1962 | 113 | -410 |
| 6433 | 126 | -14 | 8363 | 163 | -19 |
| 1839 | -163 | -12 | 2391 | -212 | -16 |
| 3980 | 257 | 53 | 5174 | 334 | 69 |
| 1449 | 153 | -107 | 1883 | 199 | -139 |
| 1958 | 157 | -93 | 2545 | 205 | -120 |
| 1820 | -28 | -120 | 2366 | -36 | -156 |
| 1707 | 35 | -329 | 2220 | 46 | -427 |
| 1613 | -169 | 73 | 2097 | -219 | 95 |
| 1511 | 10 | -275 | 1964 | 13 | -357 |
| 1557 | -135 | -55 | 2024 | -175 | -71 |
| 1612 | -136 | -10 | 2096 | -177 | -13 |
| 2081 | -104 | -81 | 2705 | -135 | -105 |
| 1689 | -63 | -150 | 2196 | -82 | -195 |
| 1525 | -65 | -143 | 1982 | -85 | -186 |
| 2000 | -3 | -95 | 2600 | -4 | -123 |
| 1750 | 111 | -87 | 2275 | 144 | -113 |
| 1289 | -135 | 64 | 1675 | -175 | 84 |
| 1668 | -87 | -67 | 2169 | -113 | -87 |
| 1296 | 138 | -298 | 1685 | 179 | -387 |
| 1248 | 176 | -82 | 1622 | 229 | -106 |
| 1555 | 146 | -316 | 2022 | 189 | -411 |
| 1953 | -135 | -8 | 2539 | -176 | -11 |
| 1843 | 8 | -121 | 2396 | 11 | -157 |
| 1644 | 43 | -181 | 2137 | 56 | -236 |

| | | | | | |
|------|------|------|------|------|------|
| 1397 | 101 | -107 | 1816 | 132 | -140 |
| 1740 | 16 | -91 | 2262 | 20 | -118 |
| 1778 | -120 | 44 | 2311 | -156 | 58 |
| 1645 | -126 | 15 | 2139 | -164 | 20 |
| 1317 | 123 | -293 | 1712 | 160 | -381 |
| 1837 | -120 | 10 | 2389 | -156 | 13 |
| 1627 | -78 | -154 | 2115 | -102 | -200 |
| 1422 | -129 | -23 | 1848 | -167 | -30 |
| 1838 | -130 | 17 | 2389 | -170 | 23 |
| 1875 | -101 | -72 | 2437 | -132 | -94 |
| 1564 | 172 | -151 | 2033 | 224 | -196 |
| 1921 | -99 | -82 | 2498 | -129 | -107 |
| 1904 | -137 | -3 | 2475 | -178 | -4 |
| 1397 | 145 | -319 | 1815 | 188 | -414 |
| 1892 | -124 | 0 | 2460 | -162 | -1 |
| 1662 | 12 | -197 | 2160 | 16 | -256 |
| 2651 | 243 | -131 | 3446 | 316 | -170 |
| 1623 | 183 | 20 | 2110 | 238 | 26 |
| 1835 | -119 | -34 | 2386 | -154 | -45 |
| 1857 | -114 | -214 | 2415 | -148 | -278 |
| 1722 | -68 | -146 | 2239 | -88 | -190 |
| 1250 | 168 | -43 | 1625 | 218 | -56 |
| 1680 | -40 | -136 | 2184 | -53 | -176 |
| 1592 | -89 | -145 | 2070 | -115 | -188 |
| 1412 | -120 | 43 | 1835 | -156 | 56 |
| 3923 | 124 | 67 | 5100 | 162 | 87 |
| 1539 | -128 | -52 | 2001 | -167 | -67 |
| 2874 | -48 | 51 | 3736 | -62 | 66 |
| 3823 | 174 | 345 | 4970 | 226 | 448 |
| 1934 | -80 | -137 | 2514 | -103 | -179 |
| 1412 | -128 | -38 | 1835 | -166 | -49 |
| 2989 | 54 | 111 | 3886 | 70 | 144 |
| 1663 | -133 | -81 | 2162 | -172 | -105 |
| 1621 | -119 | 24 | 2107 | -155 | 31 |
| 2080 | 10 | 64 | 2704 | 13 | 83 |
| 2248 | -70 | 86 | 2923 | -90 | 112 |
| 2180 | 5 | 58 | 2834 | 6 | 76 |
| 3167 | 4 | 93 | 4117 | 5 | 121 |
| 2878 | 62 | 113 | 3742 | 81 | 147 |
| 1653 | -31 | -27 | 2149 | -40 | -35 |
| 3812 | 76 | 150 | 4956 | 99 | 195 |
| 1804 | -64 | 83 | 2346 | -83 | 109 |
| 3408 | 90 | 150 | 4430 | 117 | 195 |
| 1762 | -48 | 150 | 2291 | -63 | 195 |
| 2743 | -45 | 108 | 3566 | -58 | 140 |
| 1822 | -114 | 124 | 2368 | -148 | 162 |
| 2674 | -29 | 98 | 3476 | -37 | 127 |

| | | | | | |
|------|------|------|------|------|------|
| 2196 | -65 | 81 | 2855 | -85 | 106 |
| 2248 | -79 | -19 | 2923 | -103 | -24 |
| 2151 | -72 | 60 | 2796 | -94 | 77 |
| 1979 | -124 | -17 | 2573 | -161 | -22 |
| 1892 | -134 | 21 | 2460 | -174 | 28 |
| 1860 | -117 | 84 | 2418 | -152 | 109 |
| 1563 | -97 | 39 | 2032 | -126 | 51 |
| 1677 | -116 | 26 | 2180 | -151 | 34 |
| 2005 | -121 | 66 | 2606 | -158 | 86 |
| 1978 | -108 | 71 | 2571 | -141 | 93 |
| 2992 | 14 | 85 | 3890 | 18 | 110 |
| 2577 | -53 | 43 | 3350 | -69 | 56 |
| 2173 | -104 | 24 | 2825 | -136 | 32 |
| 2740 | -50 | 64 | 3562 | -65 | 83 |
| 1739 | -146 | 27 | 2261 | -190 | 35 |
| 1906 | -129 | 25 | 2478 | -167 | 33 |
| 3122 | -43 | 47 | 4059 | -55 | 62 |
| 2147 | -140 | 9 | 2791 | -182 | 12 |
| 2007 | -147 | 47 | 2609 | -191 | 61 |
| 4949 | 189 | 75 | 6434 | 246 | 97 |
| 2017 | -102 | 48 | 2622 | -133 | 63 |
| 4711 | 173 | 94 | 6124 | 225 | 122 |
| 1508 | -137 | 1 | 1961 | -179 | 2 |
| 5824 | 354 | 368 | 7571 | 461 | 478 |
| 1337 | -120 | 21 | 1738 | -155 | 28 |
| 2612 | -26 | 165 | 3396 | -34 | 214 |
| 3741 | -6 | 345 | 4863 | -8 | 448 |
| 3982 | 157 | 42 | 5176 | 204 | 55 |
| 1305 | -95 | 49 | 1696 | -123 | 63 |
| 1832 | -149 | -1 | 2381 | -194 | -2 |
| 1665 | -137 | 23 | 2164 | -179 | 29 |
| 1538 | -109 | 158 | 2000 | -142 | 206 |
| 3516 | 73 | 172 | 4571 | 94 | 224 |
| 4097 | 180 | -376 | 5326 | 234 | -489 |
| 2032 | -63 | 94 | 2642 | -81 | 123 |
| 4432 | 145 | 41 | 5761 | 189 | 54 |
| 1636 | -142 | 14 | 2126 | -185 | 18 |
| 1770 | -48 | 155 | 2300 | -63 | 202 |
| 1716 | -22 | -7 | 2230 | -29 | -9 |
| 1378 | -117 | -120 | 1792 | -152 | -156 |
| 1418 | -119 | 9 | 1843 | -155 | 11 |
| 1123 | -120 | 102 | 1460 | -156 | 133 |
| 1911 | -178 | -530 | 2484 | -231 | -689 |
| 1282 | -117 | 117 | 1667 | -153 | 152 |
| 1307 | -159 | 17 | 1699 | -207 | 22 |
| 837 | -143 | 8 | 1088 | -186 | 11 |
| 1341 | -152 | 47 | 1743 | -198 | 61 |

| | | | | | |
|------|------|------|------|------|------|
| 1789 | -55 | 21 | 2326 | -72 | 27 |
| 1852 | -64 | 10 | 2407 | -83 | 14 |
| 940 | -128 | -49 | 1222 | -166 | -64 |
| 3679 | -145 | 453 | 4782 | -188 | 589 |
| 1684 | -124 | -12 | 2189 | -161 | -15 |
| 2528 | -81 | 113 | 3286 | -105 | 147 |
| 4070 | -162 | 80 | 5291 | -210 | 104 |
| 6056 | 275 | 78 | 7872 | 358 | 101 |
| 5811 | 247 | -26 | 7554 | 321 | -34 |
| 5710 | 299 | 112 | 7423 | 388 | 145 |
| 2182 | -9 | -38 | 2836 | -12 | -50 |
| 2870 | -69 | 28 | 3731 | -89 | 36 |
| 4509 | 105 | 344 | 5862 | 136 | 448 |
| 1814 | -89 | 39 | 2358 | -116 | 51 |
| 2315 | -31 | 12 | 3010 | -41 | 15 |
| 2035 | -14 | 18 | 2645 | -18 | 24 |
| 1657 | -105 | 72 | 2154 | -136 | 94 |
| 1807 | -53 | -23 | 2349 | -69 | -30 |
| 1382 | -71 | 79 | 1797 | -92 | 103 |
| 1967 | -49 | 73 | 2557 | -64 | 94 |
| 2142 | -20 | 86 | 2785 | -26 | 112 |
| 2099 | -37 | 65 | 2728 | -49 | 85 |
| 2499 | -196 | -257 | 3249 | -254 | -334 |
| 1963 | -57 | 14 | 2552 | -74 | 18 |
| 1856 | -60 | 10 | 2413 | -78 | 13 |
| 2145 | 16 | 3 | 2789 | 20 | 4 |
| 1934 | -65 | -28 | 2514 | -84 | -37 |
| 2346 | -1 | -26 | 3050 | -1 | -34 |
| 1922 | -87 | -14 | 2499 | -114 | -18 |
| 4100 | -154 | 547 | 5330 | -200 | 712 |
| 1008 | -98 | 42 | 1310 | -127 | 55 |
| 2092 | 4 | -177 | 2720 | 6 | -230 |
| 1901 | -76 | -30 | 2471 | -99 | -39 |
| 2020 | -34 | 80 | 2626 | -44 | 104 |
| 1939 | -53 | 45 | 2521 | -69 | 59 |
| 2218 | 0 | 41 | 2884 | 0 | 53 |
| 2207 | 22 | -88 | 2869 | 28 | -114 |
| 1560 | -35 | 84 | 2028 | -45 | 109 |
| 1767 | 6 | 169 | 2297 | 8 | 220 |
| 1920 | 33 | -32 | 2497 | 43 | -42 |
| 2036 | 9 | -35 | 2646 | 12 | -46 |
| 1389 | -150 | 27 | 1806 | -196 | 35 |
| 2330 | -13 | -52 | 3029 | -17 | -68 |
| 2029 | -54 | -194 | 2638 | -70 | -253 |
| 1182 | -100 | 80 | 1537 | -130 | 104 |
| 2042 | -26 | -220 | 2654 | -34 | -286 |
| 3031 | -49 | 12 | 3940 | -64 | 16 |

| | | | | | |
|------|------|------|------|------|------|
| 1834 | -109 | 14 | 2384 | -142 | 18 |
| 4254 | 138 | 288 | 5531 | 179 | 374 |
| 852 | -140 | -8 | 1107 | -182 | -10 |
| 1133 | -152 | 20 | 1473 | -198 | 26 |
| 1749 | -58 | -12 | 2274 | -76 | -16 |
| 1320 | -70 | 79 | 1716 | -92 | 103 |
| 1529 | -144 | 22 | 1987 | -187 | 29 |
| 1607 | -110 | 42 | 2089 | -143 | 54 |
| 1851 | -78 | 42 | 2407 | -102 | 55 |
| 1757 | -48 | 4 | 2284 | -63 | 5 |
| 1614 | -1 | -265 | 2098 | -1 | -344 |
| 1797 | 126 | -196 | 2336 | 164 | -255 |
| 1672 | -114 | -72 | 2174 | -148 | -93 |
| 1499 | 151 | -188 | 1949 | 196 | -245 |
| 1527 | -30 | -168 | 1984 | -39 | -219 |
| 6558 | 228 | 42 | 8525 | 297 | 55 |
| 2380 | 218 | 284 | 3094 | 283 | 370 |
| 1170 | 154 | -279 | 1521 | 200 | -362 |
| 1400 | -7 | -53 | 1820 | -9 | -69 |
| 1646 | -27 | -159 | 2140 | -35 | -207 |
| 1332 | -88 | 135 | 1732 | -115 | 176 |
| 1603 | 130 | -380 | 2084 | 169 | -493 |
| 1579 | -107 | -200 | 2052 | -139 | -261 |
| 2312 | 34 | -148 | 3006 | 44 | -193 |
| 1584 | 140 | -211 | 2059 | 182 | -274 |
| 1793 | -115 | -37 | 2331 | -150 | -48 |
| 1549 | -152 | -69 | 2014 | -198 | -89 |
| 1268 | 158 | -312 | 1648 | 206 | -406 |
| 1653 | -74 | -108 | 2149 | -96 | -141 |
| 1410 | 87 | -338 | 1833 | 112 | -439 |
| 1834 | 56 | -53 | 2384 | 73 | -69 |
| 1645 | -144 | -24 | 2139 | -187 | -31 |
| 1591 | 82 | -327 | 2068 | 107 | -425 |
| 1346 | 148 | -274 | 1749 | 192 | -356 |
| 2187 | 209 | -56 | 2843 | 271 | -73 |
| 1453 | -108 | -117 | 1888 | -141 | -152 |
| 1008 | 146 | -99 | 1310 | 190 | -129 |
| 1895 | -92 | 75 | 2463 | -120 | 98 |
| 1785 | -74 | 33 | 2321 | -96 | 43 |
| 1628 | -144 | -10 | 2116 | -187 | -14 |
| 1697 | -32 | -123 | 2206 | -42 | -160 |
| 1594 | -77 | -5 | 2072 | -100 | -7 |
| 1418 | -18 | -126 | 1844 | -23 | -164 |
| 1584 | -79 | -109 | 2059 | -102 | -142 |
| 1787 | -105 | 93 | 2324 | -137 | 121 |
| 1867 | -103 | -12 | 2427 | -135 | -15 |
| 1501 | -173 | 18 | 1951 | -224 | 24 |

| | | | | | |
|------|------|------|------|------|------|
| 1482 | -9 | 23 | 1927 | -12 | 30 |
| 1363 | -83 | -57 | 1772 | -108 | -74 |
| 1911 | -80 | 42 | 2484 | -104 | 55 |
| 1871 | -107 | 22 | 2432 | -139 | 28 |
| 1445 | -71 | 81 | 1879 | -92 | 105 |
| 1720 | -71 | -80 | 2236 | -92 | -103 |
| 1839 | -87 | -26 | 2391 | -113 | -34 |
| 1401 | 45 | -91 | 1821 | 59 | -119 |
| 1889 | -75 | -76 | 2455 | -98 | -99 |
| 1933 | -102 | 33 | 2513 | -133 | 44 |
| 1421 | -151 | -66 | 1847 | -197 | -86 |
| 1646 | -109 | 19 | 2140 | -142 | 25 |
| 1532 | -121 | -25 | 1991 | -158 | -32 |
| 1824 | 200 | 186 | 2372 | 260 | 242 |
| 1494 | -104 | -211 | 1943 | -135 | -274 |
| 1621 | 17 | -340 | 2107 | 22 | -442 |
| 2973 | 220 | -319 | 3865 | 286 | -414 |
| 1247 | -89 | -158 | 1621 | -116 | -205 |
| 1314 | -80 | -165 | 1708 | -103 | -214 |
| 1677 | -125 | 14 | 2181 | -162 | 18 |
| 1510 | 40 | -343 | 1964 | 52 | -446 |
| 3851 | 106 | -104 | 5006 | 138 | -135 |
| 1089 | 155 | -244 | 1415 | 201 | -317 |
| 1509 | 27 | -87 | 1962 | 34 | -113 |
| 3332 | 253 | -68 | 4332 | 329 | -88 |
| 1072 | -92 | -78 | 1394 | -119 | -101 |
| 1522 | 128 | -391 | 1978 | 166 | -509 |
| 4149 | 141 | -28 | 5394 | 184 | -37 |
| 4361 | 166 | -19 | 5669 | 216 | -25 |
| 5002 | -9 | 533 | 6503 | -12 | 693 |
| 4613 | 33 | 335 | 5997 | 44 | 435 |
| 6161 | 209 | -155 | 8010 | 271 | -201 |
| 5092 | 166 | 89 | 6620 | 216 | 115 |
| 3879 | 137 | -119 | 5043 | 179 | -155 |
| 5108 | 183 | -33 | 6641 | 238 | -43 |
| 5186 | 177 | 73 | 6742 | 230 | 95 |
| 5347 | -28 | 450 | 6952 | -36 | 585 |
| 4623 | 43 | 352 | 6010 | 56 | 458 |
| 5376 | 133 | -3 | 6988 | 173 | -3 |
| 5240 | 112 | -8 | 6812 | 146 | -11 |
| 3147 | 42 | -105 | 4091 | 55 | -137 |
| 3177 | 28 | -114 | 4130 | 37 | -149 |
| 1132 | -28 | 7 | 1471 | -36 | 8 |
| 1729 | -15 | -37 | 2247 | -19 | -48 |
| 5165 | 92 | -51 | 6714 | 119 | -67 |
| 4080 | 120 | -12 | 5304 | 156 | -15 |
| 1271 | -27 | 7 | 1652 | -35 | 9 |

| | | | | | |
|------|-----|------|------|-----|------|
| 1680 | -24 | -17 | 2184 | -32 | -22 |
| 5003 | 95 | -76 | 6504 | 123 | -99 |
| 2257 | -28 | 5 | 2934 | -36 | 6 |
| 1964 | -57 | -11 | 2553 | -75 | -15 |
| 4151 | 131 | -8 | 5396 | 170 | -10 |
| 1724 | -41 | 3 | 2241 | -53 | 4 |
| 5163 | 92 | 86 | 6711 | 120 | 112 |
| 1417 | -49 | 81 | 1843 | -64 | 105 |
| 1262 | -37 | 53 | 1640 | -48 | 68 |
| 3961 | 103 | -136 | 5149 | 134 | -176 |
| 5449 | 98 | -70 | 7083 | 128 | -91 |
| 2377 | -10 | -64 | 3091 | -14 | -83 |
| 2881 | -6 | -89 | 3746 | -8 | -116 |
| 2229 | -51 | -87 | 2897 | -67 | -113 |
| 4452 | 115 | 59 | 5787 | 149 | 77 |
| 2001 | -53 | 40 | 2601 | -69 | 52 |
| 5122 | 137 | -58 | 6659 | 178 | -75 |
| 2221 | -51 | 23 | 2887 | -67 | 30 |
| 4281 | 115 | 113 | 5565 | 150 | 147 |
| 5000 | 126 | -28 | 6500 | 164 | -36 |
| 3315 | 53 | -91 | 4310 | 69 | -118 |
| 5271 | 115 | 89 | 6853 | 150 | 115 |
| 5142 | 117 | -84 | 6685 | 153 | -109 |
| 2682 | -17 | -75 | 3487 | -22 | -97 |
| 4295 | 141 | 17 | 5583 | 183 | 22 |
| 3849 | 111 | -111 | 5004 | 144 | -145 |
| 1895 | -40 | 9 | 2464 | -51 | 12 |
| 5198 | 124 | -18 | 6757 | 161 | -23 |
| 1187 | -35 | -23 | 1544 | -45 | -30 |
| 4801 | 162 | -42 | 6241 | 210 | -55 |
| 2114 | -20 | 121 | 2748 | -27 | 158 |
| 5184 | 127 | 164 | 6739 | 165 | 213 |
| 3093 | 45 | 40 | 4021 | 59 | 52 |
| 1815 | -23 | 96 | 2359 | -31 | 125 |
| 2290 | 3 | -44 | 2977 | 4 | -58 |
| 2137 | -4 | -101 | 2778 | -5 | -131 |
| 1497 | -26 | -7 | 1947 | -34 | -9 |
| 4583 | 98 | 7 | 5958 | 128 | 9 |
| 4219 | 85 | 182 | 5484 | 110 | 236 |
| 4435 | 83 | 191 | 5765 | 107 | 249 |
| 2083 | 0 | -21 | 2708 | 0 | -27 |
| 2432 | -9 | 98 | 3161 | -11 | 128 |
| 3035 | 19 | 53 | 3945 | 24 | 69 |
| 2483 | 30 | -25 | 3228 | 39 | -32 |
| 3290 | 19 | 46 | 4277 | 25 | 60 |
| 2739 | -10 | 72 | 3561 | -13 | 93 |
| 1147 | -25 | 7 | 1491 | -33 | 9 |

| | | | | | |
|------|------|------|-------|------|------|
| 1430 | -24 | 12 | 1860 | -31 | 15 |
| 1708 | -41 | -56 | 2221 | -53 | -73 |
| 1569 | -46 | -38 | 2040 | -59 | -50 |
| 4056 | 120 | -12 | 5273 | 156 | -16 |
| 3283 | 69 | 115 | 4267 | 90 | 149 |
| 3262 | 68 | 93 | 4240 | 89 | 121 |
| 3703 | 95 | -10 | 4814 | 123 | -12 |
| 3475 | 65 | -149 | 4518 | 85 | -194 |
| 1396 | -46 | -22 | 1815 | -60 | -29 |
| 1408 | -42 | -64 | 1830 | -55 | -83 |
| 1664 | -23 | 15 | 2163 | -30 | 19 |
| 4913 | 156 | -63 | 6387 | 202 | -82 |
| 2042 | -21 | 108 | 2654 | -27 | 141 |
| 3476 | 68 | 85 | 4519 | 89 | 111 |
| 4586 | 150 | -51 | 5962 | 195 | -67 |
| 3699 | 63 | -166 | 4809 | 82 | -215 |
| 3791 | 53 | 5 | 4928 | 68 | 6 |
| 5246 | 157 | 94 | 6820 | 204 | 122 |
| 4071 | 63 | -193 | 5293 | 82 | -251 |
| 4405 | 133 | -43 | 5727 | 172 | -56 |
| 4616 | -53 | -310 | 6001 | -69 | -403 |
| 5034 | 115 | -130 | 6544 | 150 | -169 |
| 3557 | -116 | -25 | 4624 | -150 | -33 |
| 4386 | 78 | -214 | 5702 | 101 | -278 |
| 3803 | -114 | -49 | 4944 | -149 | -64 |
| 3055 | -112 | -10 | 3972 | -146 | -13 |
| 4762 | 148 | -25 | 6190 | 192 | -32 |
| 4010 | 29 | -208 | 5213 | 37 | -270 |
| 4132 | 143 | -26 | 5372 | 186 | -33 |
| 4913 | 0 | 179 | 6387 | 1 | 232 |
| 7246 | 112 | 90 | 9420 | 146 | 118 |
| 7724 | 174 | 290 | 10041 | 227 | 377 |
| 6178 | 5 | 94 | 8032 | 6 | 122 |
| 8345 | 215 | -260 | 10849 | 280 | -338 |
| 7347 | 180 | -69 | 9551 | 234 | -89 |
| 8630 | 211 | -37 | 11219 | 275 | -48 |
| 7525 | 136 | -184 | 9783 | 177 | -239 |
| 7687 | 139 | 30 | 9993 | 181 | 38 |
| 5272 | 9 | -135 | 6853 | 12 | -175 |
| 5757 | -15 | -224 | 7484 | -20 | -291 |
| 7554 | 210 | -14 | 9820 | 272 | -19 |
| 7070 | 125 | -120 | 9191 | 163 | -156 |
| 6717 | 69 | 44 | 8732 | 89 | 58 |
| 7213 | -32 | 265 | 9377 | -42 | 345 |
| 7480 | 117 | 118 | 9724 | 152 | 153 |
| 6753 | 139 | -245 | 8779 | 181 | -318 |
| 6867 | 9 | 132 | 8927 | 12 | 171 |

| | | | | | |
|------|------|------|-------|------|------|
| 7267 | 113 | 143 | 9447 | 147 | 186 |
| 7007 | 178 | 234 | 9109 | 232 | 304 |
| 8161 | 118 | -9 | 10609 | 153 | -11 |
| 7041 | 135 | 5 | 9153 | 176 | 7 |
| 8253 | 176 | 47 | 10729 | 229 | 61 |
| 7682 | 110 | -19 | 9987 | 143 | -25 |
| 6859 | 4 | -301 | 8917 | 6 | -392 |
| 7261 | -112 | -393 | 9440 | -146 | -511 |
| 7086 | 183 | 188 | 9212 | 238 | 244 |
| 8814 | -147 | 495 | 11459 | -192 | 644 |
| 6621 | 25 | -357 | 8607 | 33 | -464 |
| 7387 | 87 | 43 | 9604 | 114 | 56 |
| 6795 | 134 | -346 | 8834 | 175 | -450 |
| 7010 | -20 | 448 | 9112 | -26 | 582 |
| 4418 | 146 | 186 | 5743 | 190 | 242 |
| 4544 | 54 | -25 | 5907 | 70 | -32 |
| 5611 | 93 | 204 | 7294 | 120 | 265 |
| 4224 | 11 | -319 | 5491 | 15 | -414 |
| 5862 | 219 | -125 | 7621 | 285 | -162 |
| 4901 | 46 | -89 | 6372 | 59 | -116 |
| 7887 | 86 | -189 | 10253 | 111 | -246 |
| 5125 | 84 | -49 | 6663 | 109 | -63 |
| 5335 | 120 | 186 | 6936 | 156 | 241 |
| 7153 | 309 | 25 | 9298 | 402 | 32 |
| 6034 | 197 | -295 | 7844 | 256 | -384 |
| 7398 | 293 | 108 | 9617 | 381 | 140 |
| 4114 | -136 | -574 | 5349 | -177 | -747 |
| 5979 | 183 | -266 | 7773 | 238 | -346 |
| 6358 | 187 | 96 | 8266 | 244 | 125 |
| 6396 | 266 | -215 | 8314 | 346 | -280 |
| 5833 | 21 | 21 | 7582 | 27 | 27 |
| 6926 | 230 | 68 | 9004 | 300 | 89 |
| 6560 | 84 | -162 | 8529 | 109 | -210 |
| 7192 | 244 | -298 | 9350 | 317 | -387 |
| 4803 | 35 | -31 | 6243 | 46 | -40 |
| 7960 | 401 | -113 | 10348 | 521 | -147 |
| 6181 | 80 | -10 | 8036 | 104 | -13 |
| 6215 | 153 | 48 | 8079 | 199 | 63 |
| 6484 | 158 | -54 | 8429 | 205 | -70 |
| 6701 | 235 | -227 | 8711 | 306 | -295 |
| 4699 | -170 | -532 | 6109 | -221 | -692 |
| 6686 | 165 | -206 | 8691 | 214 | -268 |
| 4770 | -116 | -555 | 6201 | -150 | -722 |
| 4173 | -259 | -238 | 5425 | -337 | -309 |
| 7166 | 367 | 48 | 9316 | 477 | 63 |
| 6934 | 256 | 117 | 9015 | 333 | 152 |
| 4053 | -38 | -417 | 5269 | -49 | -543 |

| | | | | | |
|------|------|------|-------|------|------|
| 7820 | 425 | -30 | 10166 | 552 | -39 |
| 4748 | -115 | -496 | 6172 | -149 | -645 |
| 6441 | 147 | -29 | 8373 | 191 | -38 |
| 6307 | 310 | -33 | 8199 | 404 | -43 |
| 6149 | 315 | -124 | 7994 | 410 | -161 |
| 5548 | 86 | -262 | 7212 | 112 | -341 |
| 4595 | -151 | -149 | 5973 | -196 | -194 |
| 4972 | 204 | -358 | 6463 | 265 | -465 |
| 5574 | 259 | 47 | 7247 | 337 | 62 |
| 5499 | 208 | 63 | 7149 | 271 | 82 |
| 6132 | 138 | -105 | 7971 | 180 | -136 |
| 6151 | 299 | -7 | 7996 | 389 | -9 |
| 4966 | 157 | -310 | 6456 | 204 | -403 |
| 3650 | -78 | -381 | 4745 | -101 | -495 |
| 3440 | -90 | -272 | 4471 | -117 | -353 |
| 6467 | 342 | 52 | 8407 | 444 | 68 |
| 5557 | 126 | -316 | 7224 | 164 | -411 |
| 3312 | -130 | -261 | 4306 | -169 | -339 |
| 5366 | 29 | -44 | 6975 | 38 | -57 |
| 5426 | 187 | 45 | 7053 | 243 | 58 |
| 5546 | 236 | 81 | 7209 | 307 | 106 |
| 4130 | -251 | -200 | 5369 | -326 | -260 |
| 4843 | 135 | -427 | 6296 | 175 | -555 |
| 4948 | 147 | -95 | 6432 | 192 | -124 |
| 6070 | 272 | 57 | 7891 | 354 | 75 |
| 3364 | -109 | -292 | 4373 | -142 | -380 |
| 3021 | -86 | -16 | 3928 | -112 | -21 |
| 4718 | 76 | -436 | 6133 | 99 | -567 |
| 4396 | 84 | -416 | 5715 | 110 | -541 |
| 6715 | 453 | -233 | 8729 | 589 | -303 |
| 5992 | 241 | 5 | 7789 | 313 | 7 |
| 5134 | 134 | -366 | 6674 | 175 | -476 |
| 3323 | -94 | 6 | 4320 | -122 | 8 |
| 5900 | 277 | 22 | 7670 | 360 | 29 |
| 6473 | 358 | 15 | 8414 | 466 | 20 |
| 5867 | 264 | -50 | 7628 | 343 | -65 |
| 6031 | 306 | 38 | 7840 | 398 | 49 |
| 5849 | 167 | 15 | 7603 | 217 | 20 |
| 6059 | 197 | 9 | 7877 | 255 | 11 |
| 6091 | 312 | -123 | 7918 | 405 | -160 |
| 3614 | -109 | -166 | 4698 | -141 | -215 |
| 5169 | 88 | -51 | 6720 | 115 | -66 |
| 5131 | 155 | -184 | 6671 | 201 | -239 |
| 7958 | 319 | 200 | 10345 | 415 | 261 |
| 3200 | -103 | -225 | 4160 | -134 | -293 |
| 3672 | -173 | -274 | 4773 | -224 | -356 |
| 5356 | 125 | -156 | 6963 | 163 | -203 |

| | | | | | |
|------|------|------|------|------|------|
| 5293 | 37 | -238 | 6880 | 48 | -309 |
| 5385 | 241 | 75 | 7001 | 313 | 97 |
| 5723 | 251 | 40 | 7440 | 326 | 52 |
| 5811 | 257 | -36 | 7555 | 334 | -47 |
| 5907 | 249 | -29 | 7679 | 324 | -38 |
| 4012 | -127 | -418 | 5216 | -165 | -544 |
| 6663 | 116 | -156 | 8662 | 151 | -203 |

Tabella 3: sollecitazioni nel rivestimento definitivo (N>0: compressione, M>0: tende le fibre in intradosso) – Camera d'esodo

| Calotta, soletta piatta e setti verticali | | | | | |
|---|-------------------------|------------------------|---------------------------------|-------------------------|------------------------|
| Sollecitazioni caratteristiche | | | Sollecitazioni di calcolo (SLU) | | |
| N _k [kN] | M _k [kNm] | T _k [kN] | N _d [kN] | M _d [kNm] | T _d [kN] |
| -227 | -77 | 58 | 294 | -100 | 75 |
| -346 | -117 | 146 | 450 | -153 | 190 |
| -302 | -88 | 166 | 393 | -115 | 216 |
| -142 | -76 | 73 | 185 | -99 | 94 |
| -142 | -69 | 65 | 185 | -90 | 85 |
| -167 | -35 | 16 | 216 | -45 | 21 |
| -150 | -34 | 10 | 195 | -45 | 12 |
| -174 | -72 | 66 | 226 | -94 | 86 |
| -191 | -75 | 61 | 249 | -98 | 80 |
| -139 | -37 | 19 | 180 | -48 | 24 |
| -139 | -35 | 9 | 180 | -46 | 12 |
| -224 | -75 | 37 | 291 | -97 | 48 |
| -217 | -28 | 1 | 283 | -36 | 2 |
| -48 | -14 | 21 | 62 | -18 | 27 |
| -204 | -31 | 15 | 265 | -41 | 19 |
| -155 | -32 | 16 | 201 | -41 | 21 |
| -82 | -29 | 112 | 107 | -38 | 146 |
| -235 | -29 | 31 | 305 | -37 | 40 |
| -246 | -66 | 72 | 320 | -86 | 93 |
| -235 | -40 | 112 | 305 | -52 | 146 |
| -161 | -55 | 27 | 210 | -71 | 35 |
| -155 | -52 | 45 | 201 | -67 | 59 |
| -192 | -29 | 22 | 250 | -38 | 29 |
| -276 | -30 | 1 | 358 | -40 | 2 |
| -175 | -7 | 18 | 227 | -9 | 23 |
| -133 | -42 | 35 | 172 | -55 | 45 |
| -75 | -26 | 41 | 98 | -34 | 53 |
| -175 | -53 | 9 | 228 | -69 | 11 |
| -112 | -42 | 36 | 146 | -55 | 47 |
| -189 | -51 | 28 | 245 | -66 | 37 |
| -283 | -86 | 2 | 368 | -112 | 3 |
| -281 | -55 | 23 | 366 | -72 | 30 |
| -299 | -70 | 49 | 389 | -91 | 63 |
| -251 | -34 | 47 | 326 | -44 | 61 |
| -148 | -36 | 16 | 192 | -46 | 21 |
| -172 | -32 | 10 | 224 | -42 | 13 |
| -152 | -54 | 30 | 198 | -70 | 39 |
| -169 | -68 | 56 | 220 | -89 | 73 |
| -185 | -28 | 4 | 240 | -36 | 5 |

| | | | | | |
|------|------|-----|------|------|-----|
| -169 | -30 | 12 | 220 | -39 | 16 |
| -182 | -77 | 60 | 237 | -100 | 78 |
| 83 | 20 | 33 | -108 | 25 | 43 |
| -14 | -40 | 37 | 18 | -52 | 49 |
| -10 | 5 | 6 | 13 | 7 | 8 |
| -14 | -2 | 1 | 19 | -3 | 2 |
| -17 | 7 | 9 | 22 | 9 | 12 |
| -31 | -1 | 9 | 41 | -1 | 11 |
| 19 | -1 | 8 | -25 | -1 | 10 |
| 19 | 9 | 3 | -25 | 11 | 4 |
| 72 | 11 | 27 | -93 | 15 | 35 |
| -28 | 4 | 7 | 37 | 5 | 9 |
| -22 | 2 | 0 | 28 | 2 | 0 |
| 14 | -7 | 21 | -18 | -8 | 27 |
| -82 | -59 | 57 | 107 | -77 | 74 |
| -34 | 12 | 33 | 44 | 16 | 42 |
| -15 | 0 | 8 | 19 | 0 | 11 |
| -57 | -10 | 3 | 74 | -13 | 4 |
| -21 | -1 | 2 | 28 | -2 | 2 |
| 5 | 0 | 10 | -7 | 0 | 13 |
| -31 | -6 | 8 | 40 | -8 | 10 |
| -119 | -21 | 33 | 154 | -27 | 44 |
| -16 | -15 | 15 | 21 | -19 | 20 |
| -4 | 3 | 0 | 5 | 4 | 0 |
| -35 | -5 | 5 | 46 | -7 | 6 |
| -40 | -4 | 10 | 52 | -5 | 12 |
| -197 | -101 | 108 | 257 | -132 | 140 |
| -187 | -34 | 47 | 243 | -45 | 61 |
| -73 | -13 | 7 | 95 | -17 | 9 |
| -108 | -23 | 21 | 140 | -30 | 27 |
| -87 | -24 | 13 | 113 | -31 | 17 |
| -86 | -35 | 38 | 112 | -45 | 50 |
| -88 | -14 | 3 | 114 | -18 | 4 |
| -191 | -52 | 52 | 249 | -68 | 68 |
| -94 | -42 | 31 | 122 | -55 | 40 |
| -78 | -14 | 11 | 102 | -19 | 14 |
| -83 | -19 | 15 | 108 | -25 | 20 |
| -120 | -23 | 3 | 156 | -30 | 4 |
| -48 | 1 | 0 | 62 | 2 | 1 |
| -172 | -99 | 135 | 223 | -128 | 176 |
| -42 | -50 | 41 | 55 | -65 | 53 |
| -25 | -15 | 18 | 33 | -19 | 24 |
| -45 | -9 | 1 | 59 | -12 | 1 |
| -60 | -13 | 10 | 78 | -17 | 12 |
| -29 | -6 | 8 | 37 | -8 | 11 |
| -63 | -22 | 6 | 82 | -29 | 8 |
| -58 | -35 | 35 | 75 | -45 | 45 |

| | | | | | |
|------|------|-----|-----|------|-----|
| -68 | -14 | 12 | 89 | -19 | 16 |
| -34 | -6 | 6 | 45 | -7 | 7 |
| -62 | -7 | 24 | 81 | -9 | 32 |
| -115 | -2 | 23 | 150 | -3 | 29 |
| -238 | -127 | 149 | 309 | -165 | 194 |
| -188 | -53 | 41 | 245 | -68 | 54 |
| -89 | -44 | 32 | 115 | -57 | 42 |
| -85 | -24 | 18 | 110 | -31 | 23 |
| -97 | -20 | 11 | 126 | -26 | 15 |
| -94 | -15 | 5 | 122 | -20 | 6 |
| -103 | -34 | 15 | 134 | -44 | 20 |
| -95 | -47 | 40 | 123 | -61 | 52 |
| -102 | -22 | 13 | 132 | -29 | 17 |
| -95 | -19 | 14 | 123 | -25 | 18 |
| -138 | -34 | 42 | 179 | -44 | 55 |
| -267 | -114 | 178 | 347 | -149 | 232 |
| -262 | -66 | 92 | 340 | -86 | 120 |
| -127 | -21 | 11 | 166 | -28 | 14 |
| -129 | -46 | 35 | 168 | -60 | 45 |
| -158 | -42 | 38 | 206 | -55 | 49 |
| -123 | -57 | 65 | 160 | -75 | 85 |
| -101 | -24 | 12 | 131 | -32 | 15 |
| -279 | -94 | 71 | 363 | -122 | 92 |
| -123 | -56 | 50 | 159 | -73 | 65 |
| -120 | -24 | 17 | 157 | -31 | 22 |
| -97 | -26 | 16 | 126 | -33 | 21 |
| -237 | -38 | 7 | 308 | -50 | 10 |
| -139 | -24 | 11 | 181 | -32 | 14 |
| -312 | -154 | 250 | 406 | -200 | 325 |
| -146 | -80 | 93 | 190 | -105 | 121 |
| -106 | -50 | 44 | 138 | -65 | 58 |
| -107 | -34 | 19 | 139 | -44 | 24 |
| -109 | -21 | 12 | 141 | -28 | 15 |
| -103 | -21 | 10 | 134 | -27 | 12 |
| -107 | -43 | 38 | 139 | -56 | 50 |
| -110 | -58 | 65 | 143 | -75 | 85 |
| -103 | -23 | 17 | 134 | -29 | 23 |
| -114 | -22 | 12 | 148 | -29 | 16 |
| -219 | -47 | 50 | 284 | -61 | 65 |
| -280 | -146 | 138 | 363 | -190 | 179 |
| -264 | -62 | 7 | 343 | -81 | 10 |
| -147 | -28 | 10 | 191 | -37 | 13 |
| -172 | -69 | 60 | 224 | -90 | 78 |
| -210 | -56 | 54 | 273 | -72 | 70 |
| -181 | -57 | 45 | 236 | -74 | 58 |
| -133 | -35 | 12 | 173 | -46 | 16 |
| -340 | -138 | 192 | 442 | -180 | 249 |

| | | | | | |
|-------|------|-----|------|------|-----|
| -163 | -74 | 64 | 212 | -96 | 83 |
| -149 | -30 | 13 | 194 | -38 | 17 |
| -122 | -37 | 12 | 158 | -48 | 15 |
| -322 | -51 | 16 | 419 | -67 | 21 |
| -120 | -26 | 29 | 155 | -34 | 37 |
| -208 | -104 | 183 | 271 | -135 | 238 |
| -214 | -117 | 132 | 278 | -153 | 172 |
| -119 | -55 | 44 | 155 | -72 | 58 |
| -100 | -47 | 38 | 130 | -61 | 49 |
| -128 | -29 | 11 | 167 | -38 | 14 |
| -115 | -24 | 12 | 149 | -32 | 15 |
| -142 | -58 | 54 | 184 | -75 | 70 |
| -134 | -61 | 56 | 174 | -80 | 73 |
| -126 | -31 | 15 | 164 | -40 | 20 |
| -112 | -26 | 16 | 146 | -34 | 20 |
| -163 | -57 | 55 | 212 | -74 | 72 |
| -1614 | 22 | 51 | 2098 | 29 | 67 |
| -115 | -36 | 124 | 150 | -46 | 161 |
| -331 | -13 | 211 | 431 | -16 | 275 |
| -1389 | 34 | 38 | 1806 | 45 | 50 |
| -2608 | 32 | 82 | 3390 | 41 | 107 |
| -1581 | 13 | 38 | 2055 | 17 | 50 |
| -2317 | 37 | 97 | 3012 | 48 | 126 |
| -1298 | 110 | 116 | 1687 | 144 | 150 |
| -1785 | 102 | 76 | 2321 | 133 | 98 |
| -2855 | 71 | 33 | 3712 | 93 | 43 |
| -2265 | 109 | 164 | 2945 | 142 | 213 |
| -2478 | 106 | 90 | 3222 | 138 | 117 |
| -1172 | 37 | 20 | 1524 | 48 | 26 |
| -2597 | 70 | 18 | 3376 | 90 | 24 |
| -1810 | 20 | 121 | 2353 | 27 | 157 |
| -2330 | -31 | 58 | 3028 | -40 | 75 |
| -2081 | 14 | 18 | 2706 | 18 | 24 |
| -2270 | 12 | 24 | 2951 | 16 | 31 |
| -3078 | -14 | 114 | 4001 | -18 | 148 |
| -1935 | 56 | 23 | 2516 | 73 | 29 |
| -2159 | -33 | 40 | 2807 | -43 | 52 |
| -2776 | -25 | 75 | 3609 | -32 | 97 |
| -2315 | -37 | 80 | 3009 | -47 | 104 |
| -2870 | -8 | 98 | 3732 | -10 | 127 |
| -1974 | 56 | 18 | 2566 | 73 | 23 |
| -1444 | 41 | 40 | 1877 | 53 | 52 |
| -1981 | 9 | 5 | 2575 | 11 | 6 |
| -2575 | 11 | 37 | 3348 | 14 | 48 |
| -2548 | -21 | 112 | 3312 | -28 | 146 |
| -2665 | -32 | 45 | 3464 | -42 | 58 |
| -1931 | 29 | 61 | 2510 | 38 | 80 |

| | | | | | |
|-------|-----|-----|------|-----|-----|
| -2636 | 102 | 145 | 3427 | 133 | 188 |
| -2919 | 113 | 76 | 3795 | 148 | 99 |
| -191 | 21 | 265 | 249 | 27 | 345 |
| -1694 | 67 | 77 | 2202 | 87 | 100 |
| -917 | -34 | 279 | 1192 | -45 | 363 |
| -1144 | 66 | 13 | 1487 | 86 | 17 |
| -2714 | 75 | 175 | 3528 | 98 | 228 |
| -1670 | 73 | 22 | 2171 | 95 | 28 |
| -2491 | 39 | 54 | 3239 | 50 | 70 |
| -2314 | 11 | 168 | 3008 | 15 | 219 |
| -3009 | 80 | 147 | 3911 | 104 | 192 |
| -1689 | 38 | 206 | 2195 | 49 | 268 |
| -2168 | 21 | 6 | 2819 | 28 | 7 |
| -2049 | 5 | 36 | 2664 | 6 | 46 |
| -3198 | 28 | 77 | 4157 | 36 | 100 |
| -2802 | 24 | 121 | 3643 | 31 | 158 |
| -3408 | 18 | 177 | 4431 | 23 | 230 |
| -2920 | 21 | 40 | 3796 | 27 | 52 |
| -2361 | 7 | 26 | 3069 | 9 | 33 |
| -2921 | 26 | 13 | 3797 | 33 | 16 |
| -2816 | 14 | 57 | 3660 | 19 | 75 |
| -2890 | -20 | 12 | 3757 | -27 | 16 |
| -2847 | 41 | 17 | 3702 | 54 | 22 |
| -3173 | 27 | 12 | 4125 | 35 | 16 |
| -2851 | 22 | 96 | 3707 | 29 | 125 |
| -3411 | -27 | 101 | 4434 | -35 | 131 |
| -2690 | -16 | 38 | 3496 | -21 | 50 |
| -2637 | 60 | 21 | 3428 | 78 | 27 |
| -1882 | 104 | 34 | 2446 | 135 | 44 |
| -2175 | 68 | 100 | 2827 | 89 | 130 |
| 345 | -8 | 51 | -449 | -11 | 66 |
| -307 | -37 | 137 | 399 | -48 | 178 |
| 129 | 2 | 33 | -168 | 2 | 43 |
| -1841 | 45 | 179 | 2393 | 58 | 233 |
| -657 | -28 | 174 | 854 | -37 | 226 |
| -2622 | -37 | 59 | 3408 | -48 | 76 |
| -1129 | -42 | 72 | 1468 | -55 | 94 |
| -2412 | 107 | 66 | 3136 | 140 | 86 |
| -2017 | 62 | 140 | 2622 | 81 | 182 |
| -903 | -17 | 108 | 1174 | -22 | 141 |
| -2726 | 2 | 25 | 3544 | 3 | 32 |
| -2147 | 9 | 36 | 2792 | 11 | 47 |
| -2345 | -12 | 103 | 3049 | -15 | 134 |
| -2462 | 16 | 3 | 3201 | 21 | 4 |
| -2454 | 39 | 4 | 3190 | 51 | 5 |
| -2251 | -15 | 147 | 2926 | -20 | 191 |
| -2865 | 1 | 4 | 3724 | 1 | 5 |

| | | | | | |
|-------|-----|-----|------|-----|-----|
| -2750 | 40 | 7 | 3575 | 52 | 9 |
| -3124 | 19 | 25 | 4062 | 25 | 32 |
| -2299 | 3 | 29 | 2988 | 4 | 38 |
| -2440 | 3 | 5 | 3172 | 3 | 7 |
| -2695 | -23 | 25 | 3504 | -31 | 33 |
| -2822 | 17 | 25 | 3669 | 22 | 32 |
| -3230 | 1 | 95 | 4199 | 2 | 124 |
| -3104 | -13 | 160 | 4035 | -17 | 209 |
| -1171 | -24 | 82 | 1522 | -32 | 106 |
| -1339 | 8 | 143 | 1740 | 11 | 185 |
| -2059 | 52 | 101 | 2676 | 67 | 131 |
| -1242 | 22 | 149 | 1615 | 29 | 194 |
| -1873 | 65 | 6 | 2434 | 85 | 7 |
| -678 | -10 | 34 | 882 | -13 | 44 |
| -296 | -34 | 7 | 384 | -44 | 9 |
| -963 | 13 | 77 | 1252 | 17 | 100 |
| -2290 | -28 | 45 | 2977 | -37 | 59 |
| -808 | 52 | 84 | 1051 | 68 | 109 |
| -1973 | 37 | 19 | 2565 | 48 | 24 |
| 30 | 17 | 372 | -39 | 22 | 483 |
| -1227 | 33 | 46 | 1595 | 43 | 60 |
| -2544 | 63 | 25 | 3307 | 81 | 33 |
| -1741 | -18 | 113 | 2264 | -24 | 147 |
| -1561 | 15 | 54 | 2029 | 19 | 71 |
| -2274 | 96 | 57 | 2956 | 125 | 74 |
| -1503 | 89 | 66 | 1953 | 115 | 86 |
| -2231 | 72 | 22 | 2900 | 94 | 29 |
| -2212 | 55 | 26 | 2876 | 72 | 33 |
| -2530 | 32 | 86 | 3289 | 42 | 112 |
| -372 | -32 | 30 | 484 | -42 | 39 |
| -1332 | 27 | 42 | 1732 | 35 | 54 |
| -1326 | 19 | 59 | 1724 | 25 | 76 |
| -126 | -32 | 100 | 163 | -41 | 130 |
| -1509 | 15 | 126 | 1962 | 20 | 164 |
| -2585 | 92 | 20 | 3360 | 120 | 25 |
| -3033 | -12 | 165 | 3943 | -16 | 214 |
| -2701 | 49 | 47 | 3511 | 64 | 61 |
| -2613 | -22 | 7 | 3396 | -29 | 9 |
| -2098 | 8 | 28 | 2727 | 10 | 37 |
| -2426 | 12 | 7 | 3154 | 16 | 9 |
| -1680 | 43 | 14 | 2183 | 56 | 18 |
| -2373 | -38 | 102 | 3085 | -49 | 133 |
| -2620 | -12 | 73 | 3406 | -15 | 94 |
| -1864 | 58 | 6 | 2424 | 75 | 7 |
| -3497 | 9 | 113 | 4546 | 12 | 147 |
| -1997 | 4 | 39 | 2596 | 5 | 50 |
| -2629 | 10 | 11 | 3418 | 13 | 14 |

| | | | | | |
|-------|-----|-----|------|-----|-----|
| -2757 | -20 | 19 | 3584 | -26 | 25 |
| -2614 | -37 | 74 | 3398 | -49 | 97 |
| -2796 | 63 | 33 | 3635 | 82 | 43 |
| -2899 | 1 | 161 | 3769 | 2 | 209 |
| -416 | -28 | 96 | 541 | -37 | 125 |
| -2376 | 113 | 25 | 3088 | 147 | 32 |
| -3131 | 92 | 16 | 4070 | 120 | 21 |
| -1346 | -31 | 29 | 1750 | -41 | 38 |
| -1744 | 21 | 86 | 2267 | 27 | 112 |
| -2592 | 94 | 46 | 3369 | 122 | 60 |
| -1418 | 25 | 173 | 1843 | 32 | 225 |
| -2027 | 2 | 165 | 2635 | 3 | 214 |
| -1506 | 80 | 52 | 1958 | 104 | 68 |
| -1380 | -2 | 27 | 1794 | -2 | 35 |
| -955 | -20 | 151 | 1241 | -26 | 196 |
| -7 | 0 | 227 | 10 | 0 | 294 |
| -2811 | 112 | 54 | 3655 | 146 | 71 |
| -2820 | 74 | 116 | 3666 | 97 | 151 |
| -409 | 10 | 12 | 531 | 13 | 15 |
| -321 | -10 | 0 | 418 | -13 | 0 |
| -304 | -9 | 3 | 395 | -12 | 4 |
| -361 | 1 | 11 | 469 | 2 | 14 |
| -343 | -8 | 5 | 446 | -10 | 7 |
| -298 | -6 | 27 | 387 | -7 | 35 |
| -540 | -5 | 42 | 702 | -7 | 55 |
| -549 | -2 | 29 | 714 | -3 | 38 |
| -267 | 4 | 22 | 347 | 5 | 29 |
| -324 | -8 | 16 | 421 | -11 | 21 |
| -207 | -10 | 17 | 269 | -13 | 22 |
| -559 | -3 | 22 | 727 | -3 | 29 |
| -453 | -2 | 32 | 589 | -2 | 41 |
| -345 | -6 | 22 | 449 | -8 | 29 |
| -225 | 0 | 3 | 293 | 0 | 3 |
| -509 | -11 | 11 | 662 | -14 | 15 |
| -614 | -1 | 13 | 799 | -2 | 17 |
| -512 | -12 | 14 | 665 | -15 | 19 |
| -277 | -5 | 12 | 360 | -6 | 16 |
| -225 | -6 | 17 | 292 | -8 | 22 |
| -198 | 3 | 0 | 257 | 4 | 0 |
| -194 | 1 | 3 | 252 | 2 | 4 |
| -664 | 7 | 7 | 864 | 8 | 9 |
| -247 | -1 | 10 | 322 | -1 | 12 |
| -552 | 5 | 0 | 718 | 6 | 1 |
| -272 | -2 | 2 | 353 | -3 | 2 |
| -509 | -10 | 13 | 661 | -12 | 17 |
| -215 | 0 | 6 | 279 | 0 | 8 |
| -302 | -2 | 12 | 393 | -2 | 15 |

| | | | | | |
|-------|-----|----|------|-----|-----|
| -453 | -3 | 11 | 589 | -3 | 15 |
| -228 | 5 | 16 | 297 | 6 | 21 |
| -327 | -3 | 22 | 425 | -4 | 28 |
| -384 | -6 | 10 | 499 | -8 | 13 |
| -290 | -10 | 1 | 377 | -13 | 1 |
| -230 | -10 | 13 | 299 | -13 | 16 |
| -322 | -11 | 1 | 419 | -14 | 2 |
| -439 | -4 | 20 | 571 | -5 | 26 |
| -532 | -4 | 11 | 692 | -6 | 15 |
| -379 | -6 | 8 | 493 | -7 | 11 |
| -301 | -7 | 20 | 392 | -9 | 26 |
| -263 | -9 | 2 | 341 | -12 | 2 |
| -550 | -12 | 23 | 715 | -16 | 30 |
| -249 | -10 | 12 | 324 | -13 | 16 |
| -413 | -6 | 10 | 537 | -7 | 13 |
| -392 | 8 | 41 | 510 | 11 | 53 |
| -535 | 8 | 18 | 695 | 11 | 24 |
| -476 | -1 | 32 | 619 | -1 | 41 |
| -529 | -3 | 32 | 688 | -4 | 42 |
| -350 | -22 | 5 | 455 | -29 | 7 |
| -1022 | 9 | 64 | 1329 | 11 | 83 |
| -210 | 4 | 20 | 273 | 5 | 25 |
| -772 | 30 | 92 | 1004 | 39 | 119 |
| -336 | 15 | 0 | 437 | 19 | 0 |
| -341 | 31 | 89 | 443 | 40 | 115 |
| -994 | 13 | 37 | 1293 | 16 | 49 |
| -628 | 30 | 71 | 817 | 39 | 93 |
| -286 | 8 | 5 | 372 | 11 | 6 |
| -502 | 2 | 26 | 652 | 3 | 33 |
| -616 | -9 | 6 | 801 | -11 | 7 |
| -695 | 3 | 21 | 903 | 4 | 27 |
| -733 | -8 | 34 | 952 | -10 | 45 |
| -293 | 8 | 6 | 381 | 10 | 8 |
| -828 | 8 | 81 | 1077 | 11 | 106 |
| -473 | -2 | 4 | 615 | -3 | 5 |
| -928 | 13 | 10 | 1207 | 17 | 13 |
| -1227 | -27 | 2 | 1595 | -35 | 2 |
| -742 | 10 | 8 | 965 | 13 | 10 |
| -549 | -18 | 14 | 714 | -23 | 19 |
| -691 | 10 | 5 | 898 | 13 | 7 |
| -845 | 15 | 2 | 1098 | 20 | 3 |
| -1064 | -10 | 34 | 1383 | -13 | 44 |
| -469 | -2 | 16 | 610 | -3 | 21 |
| -430 | -4 | 10 | 559 | -5 | 13 |
| -611 | 10 | 7 | 794 | 13 | 10 |
| -547 | -8 | 21 | 711 | -10 | 27 |
| -599 | 13 | 8 | 779 | 16 | 11 |

| | | | | | |
|-------|-----|-----|------|-----|-----|
| -328 | -4 | 4 | 426 | -6 | 5 |
| -257 | -5 | 2 | 334 | -6 | 2 |
| -272 | -7 | 7 | 353 | -9 | 9 |
| -394 | 13 | 21 | 512 | 17 | 27 |
| -738 | -9 | 48 | 960 | -12 | 62 |
| -263 | 9 | 17 | 342 | 12 | 22 |
| -523 | 13 | 36 | 680 | 17 | 47 |
| -292 | 1 | 21 | 379 | 1 | 28 |
| -399 | -22 | 21 | 519 | -28 | 28 |
| -494 | -5 | 15 | 642 | -7 | 19 |
| -242 | -7 | 15 | 314 | -9 | 19 |
| -664 | 9 | 32 | 863 | 12 | 42 |
| -808 | 56 | 9 | 1050 | 73 | 12 |
| -1275 | 59 | 26 | 1658 | 76 | 34 |
| -806 | 14 | 105 | 1048 | 18 | 137 |
| -401 | -1 | 147 | 521 | -1 | 191 |
| -673 | -31 | 85 | 875 | -40 | 110 |
| -1286 | 11 | 15 | 1672 | 14 | 19 |
| -651 | 65 | 25 | 847 | 84 | 33 |
| -1452 | 66 | 18 | 1888 | 85 | 23 |
| -1359 | 61 | 12 | 1767 | 80 | 16 |
| -751 | 72 | 45 | 976 | 93 | 59 |
| -1331 | 22 | 71 | 1730 | 28 | 92 |
| -1202 | 65 | 43 | 1563 | 85 | 56 |
| -1197 | 36 | 66 | 1555 | 47 | 86 |
| -1217 | 6 | 58 | 1582 | 8 | 76 |
| -1322 | -44 | 2 | 1718 | -57 | 2 |
| -1350 | -10 | 57 | 1755 | -13 | 74 |
| -1634 | -10 | 55 | 2124 | -12 | 71 |
| -1003 | 12 | 14 | 1304 | 15 | 18 |
| -1038 | 14 | 150 | 1349 | 18 | 195 |
| -1071 | 10 | 125 | 1393 | 13 | 162 |
| -1476 | 18 | 4 | 1919 | 24 | 5 |
| -1352 | -57 | 25 | 1758 | -74 | 33 |
| -1178 | 2 | 23 | 1531 | 2 | 30 |
| -669 | -36 | 33 | 869 | -47 | 42 |
| -1543 | 16 | 32 | 2006 | 20 | 42 |
| -1488 | 16 | 8 | 1935 | 21 | 10 |
| -1150 | -31 | 47 | 1494 | -41 | 61 |
| -1021 | -25 | 53 | 1327 | -33 | 69 |
| -698 | -33 | 49 | 908 | -44 | 63 |
| -1060 | 16 | 30 | 1378 | 21 | 40 |
| -781 | -37 | 12 | 1015 | -48 | 15 |
| -1389 | 46 | 12 | 1806 | 60 | 15 |
| -981 | 42 | 10 | 1276 | 55 | 13 |
| -709 | 67 | 38 | 922 | 87 | 49 |
| -1173 | 36 | 28 | 1525 | 47 | 36 |

| | | | | | |
|-------|-----|-----|------|-----|-----|
| -1204 | 57 | 33 | 1565 | 74 | 42 |
| -779 | -18 | 147 | 1013 | -24 | 191 |
| -759 | 40 | 249 | 987 | 52 | 324 |
| -1036 | 95 | 120 | 1346 | 124 | 156 |
| -818 | 28 | 1 | 1064 | 36 | 2 |
| -389 | -54 | 24 | 505 | -70 | 31 |
| -583 | 3 | 67 | 758 | 4 | 87 |
| -627 | 48 | 108 | 816 | 63 | 140 |
| -1192 | 56 | 11 | 1550 | 73 | 14 |
| -432 | 19 | 9 | 562 | 25 | 12 |
| -738 | -40 | 4 | 959 | -52 | 5 |
| -355 | -19 | 22 | 461 | -25 | 29 |
| -569 | 0 | 61 | 740 | 0 | 80 |
| -1068 | 30 | 19 | 1389 | 40 | 25 |
| -734 | 24 | 13 | 954 | 32 | 17 |
| -646 | 19 | 5 | 839 | 24 | 6 |
| -281 | 15 | 16 | 365 | 20 | 21 |
| -539 | 40 | 67 | 700 | 52 | 87 |
| -677 | 18 | 21 | 880 | 24 | 28 |
| -540 | 22 | 16 | 703 | 28 | 20 |
| -628 | 59 | 1 | 816 | 76 | 1 |
| -710 | -6 | 57 | 923 | -8 | 74 |
| -892 | 36 | 12 | 1159 | 47 | 16 |
| -532 | -12 | 17 | 692 | -15 | 22 |
| -1491 | 15 | 2 | 1938 | 19 | 2 |
| -929 | 17 | 4 | 1208 | 22 | 5 |
| -1125 | 17 | 6 | 1463 | 23 | 8 |
| -937 | -26 | 65 | 1218 | -34 | 85 |
| -649 | -34 | 56 | 844 | -44 | 73 |
| -1076 | -9 | 25 | 1399 | -11 | 32 |
| -842 | 14 | 22 | 1095 | 18 | 28 |
| -832 | -4 | 48 | 1081 | -6 | 63 |
| -1343 | -44 | 16 | 1745 | -57 | 20 |
| -1006 | 15 | 133 | 1308 | 20 | 172 |
| -894 | 18 | 100 | 1162 | 24 | 130 |
| -1053 | 16 | 3 | 1369 | 20 | 3 |
| -1036 | 13 | 8 | 1347 | 17 | 11 |
| -1316 | -20 | 24 | 1711 | -26 | 31 |
| -1298 | -9 | 33 | 1687 | -11 | 43 |
| -1158 | 30 | 86 | 1505 | 39 | 112 |
| -613 | 40 | 54 | 796 | 52 | 70 |
| -727 | 57 | 2 | 945 | 74 | 3 |
| -363 | -3 | 140 | 472 | -4 | 182 |
| -1082 | 10 | 60 | 1407 | 13 | 78 |
| -341 | -22 | 23 | 444 | -29 | 30 |
| -375 | 41 | 59 | 487 | 53 | 77 |
| -824 | 36 | 82 | 1071 | 47 | 106 |

| | | | | | |
|-------|-----|-----|------|------|-----|
| -621 | 70 | 17 | 807 | 91 | 23 |
| -1031 | 13 | 29 | 1340 | 17 | 37 |
| -1222 | 0 | 46 | 1589 | 0 | 59 |
| -1293 | 62 | 9 | 1680 | 80 | 12 |
| -821 | 11 | 105 | 1067 | 15 | 136 |
| -587 | 15 | 1 | 763 | 19 | 1 |
| -1262 | 57 | 25 | 1641 | 74 | 33 |
| -370 | -79 | 138 | 481 | -102 | 180 |
| -304 | -57 | 55 | 395 | -74 | 71 |
| -1372 | -8 | 311 | 1783 | -11 | 404 |
| -1860 | 51 | 45 | 2417 | 66 | 59 |
| -1410 | 68 | 93 | 1833 | 89 | 121 |
| -1471 | 46 | 7 | 1912 | 60 | 9 |
| -830 | 37 | 243 | 1079 | 48 | 316 |
| -817 | 71 | 176 | 1063 | 93 | 229 |
| -1266 | 53 | 7 | 1646 | 69 | 10 |
| -1133 | 92 | 118 | 1473 | 120 | 153 |
| -1174 | 80 | 92 | 1526 | 104 | 120 |
| -798 | -22 | 182 | 1037 | -28 | 236 |
| -1478 | 51 | 43 | 1922 | 66 | 56 |
| -714 | -39 | 14 | 928 | -51 | 18 |
| -1941 | -2 | 19 | 2523 | -3 | 25 |
| -1633 | 19 | 11 | 2122 | 24 | 14 |
| -1178 | 12 | 2 | 1531 | 16 | 2 |
| -1226 | -35 | 27 | 1594 | -46 | 36 |
| -762 | -31 | 27 | 990 | -40 | 35 |
| -1167 | -32 | 29 | 1517 | -42 | 37 |
| -1249 | 3 | 51 | 1623 | 4 | 67 |
| -1734 | -8 | 76 | 2254 | -11 | 98 |
| -1774 | -63 | 22 | 2307 | -82 | 28 |
| -1447 | 30 | 233 | 1881 | 40 | 303 |
| -1109 | 16 | 145 | 1442 | 21 | 188 |
| -1706 | 22 | 23 | 2218 | 28 | 29 |
| -2087 | 23 | 12 | 2713 | 30 | 15 |
| -1471 | -53 | 12 | 1913 | -68 | 16 |
| -1988 | -9 | 74 | 2585 | -12 | 96 |
| -1829 | 40 | 15 | 2378 | 52 | 19 |
| -1306 | 65 | 35 | 1698 | 85 | 46 |
| -1717 | 80 | 32 | 2233 | 104 | 42 |
| -477 | -22 | 123 | 620 | -29 | 159 |
| -1321 | 7 | 11 | 1718 | 9 | 15 |
| -632 | -33 | 88 | 822 | -42 | 114 |
| -775 | 72 | 37 | 1008 | 93 | 48 |
| -1572 | 61 | 27 | 2043 | 80 | 35 |
| -674 | 102 | 119 | 876 | 133 | 155 |
| -1456 | 17 | 71 | 1893 | 23 | 92 |
| -1516 | 11 | 103 | 1970 | 14 | 133 |

| | | | | | |
|-------|-----|-----|------|-----|-----|
| -1946 | 65 | 72 | 2530 | 85 | 94 |
| -665 | 8 | 112 | 864 | 11 | 145 |
| -1465 | 54 | 27 | 1904 | 71 | 36 |
| -2126 | 92 | 34 | 2763 | 119 | 45 |
| -2379 | 46 | 26 | 3092 | 60 | 34 |
| -1069 | 40 | 29 | 1389 | 52 | 38 |
| -160 | -7 | 207 | 208 | -9 | 269 |
| -6 | -49 | 81 | 8 | -63 | 106 |
| -1421 | 22 | 0 | 1847 | 28 | 0 |
| -1436 | 55 | 163 | 1867 | 72 | 212 |
| -2514 | 58 | 13 | 3268 | 76 | 17 |
| -2333 | 62 | 44 | 3032 | 80 | 58 |
| -1589 | 64 | 124 | 2066 | 83 | 161 |
| -1960 | 33 | 44 | 2548 | 43 | 58 |
| -2164 | 87 | 52 | 2813 | 113 | 68 |
| -2091 | 29 | 1 | 2718 | 38 | 1 |
| -1387 | 24 | 23 | 1804 | 31 | 30 |
| -1456 | -59 | 4 | 1892 | -77 | 6 |
| -1570 | -22 | 83 | 2041 | -29 | 109 |
| -2057 | -23 | 62 | 2675 | -30 | 80 |
| -1848 | 14 | 22 | 2403 | 18 | 28 |
| -980 | -12 | 12 | 1274 | -15 | 16 |
| -1242 | -5 | 36 | 1615 | -6 | 47 |
| -2191 | 17 | 18 | 2849 | 22 | 23 |
| -1818 | -36 | 36 | 2363 | -47 | 47 |
| -2384 | -25 | 57 | 3100 | -33 | 74 |
| -1437 | 38 | 73 | 1868 | 49 | 95 |
| -1862 | -17 | 76 | 2420 | -21 | 98 |
| -1597 | 14 | 16 | 2076 | 18 | 20 |
| -2055 | -37 | 63 | 2671 | -48 | 82 |
| -1559 | -44 | 7 | 2027 | -57 | 9 |
| -1474 | 16 | 180 | 1916 | 20 | 234 |
| -1791 | 14 | 19 | 2328 | 18 | 25 |
| -672 | -61 | 23 | 874 | -80 | 30 |
| -2067 | 32 | 64 | 2688 | 42 | 83 |
| -2233 | 37 | 34 | 2903 | 48 | 44 |
| -1621 | 61 | 72 | 2107 | 79 | 93 |
| -2126 | 43 | 7 | 2764 | 56 | 9 |
| -1661 | 51 | 154 | 2160 | 66 | 200 |
| -1325 | -1 | 251 | 1723 | -1 | 326 |
| -853 | 85 | 8 | 1110 | 111 | 10 |
| -2392 | 63 | 114 | 3109 | 82 | 148 |
| -1858 | 38 | 41 | 2415 | 50 | 54 |
| -328 | -62 | 47 | 426 | -81 | 61 |
| -960 | -3 | 73 | 1248 | -4 | 95 |
| -861 | 88 | 69 | 1119 | 114 | 89 |
| -2394 | 45 | 56 | 3112 | 58 | 72 |

| | | | | | |
|-------|-----|-----|------|------|-----|
| -1585 | 62 | 90 | 2061 | 81 | 117 |
| -648 | -64 | 26 | 842 | -83 | 34 |
| -341 | -81 | 134 | 444 | -106 | 174 |
| -1036 | -4 | 73 | 1347 | -6 | 94 |
| -2094 | 47 | 10 | 2722 | 62 | 13 |
| -1852 | 37 | 48 | 2408 | 48 | 63 |
| -2063 | 44 | 45 | 2682 | 58 | 59 |
| -830 | 69 | 136 | 1078 | 89 | 176 |
| -762 | 88 | 59 | 991 | 115 | 76 |
| -1726 | 43 | 50 | 2244 | 56 | 65 |
| -1271 | 76 | 90 | 1652 | 98 | 117 |
| -1502 | 61 | 69 | 1953 | 80 | 90 |
| -1367 | -19 | 295 | 1777 | -25 | 383 |
| -2188 | 41 | 32 | 2844 | 53 | 41 |
| -839 | -29 | 15 | 1090 | -37 | 19 |
| -1983 | -14 | 43 | 2578 | -19 | 55 |
| -1229 | 12 | 14 | 1598 | 15 | 18 |
| -1814 | 14 | 2 | 2358 | 19 | 3 |
| -1553 | -47 | 31 | 2019 | -61 | 40 |
| -1313 | 14 | 180 | 1707 | 18 | 234 |
| -1395 | -34 | 15 | 1814 | -44 | 20 |
| -2127 | -1 | 55 | 2765 | -1 | 71 |
| -2021 | -10 | 113 | 2628 | -13 | 147 |
| -1589 | -52 | 20 | 2066 | -67 | 26 |
| -1359 | 4 | 90 | 1767 | 5 | 117 |
| -1554 | 22 | 214 | 2020 | 28 | 278 |
| -2087 | 23 | 52 | 2713 | 30 | 68 |
| -1859 | 15 | 7 | 2417 | 20 | 9 |
| -1873 | -62 | 14 | 2435 | -81 | 18 |
| -1693 | -20 | 66 | 2201 | -25 | 86 |
| -1959 | 29 | 7 | 2547 | 38 | 9 |
| -1865 | 80 | 16 | 2424 | 105 | 21 |
| -2001 | 99 | 39 | 2602 | 128 | 50 |
| -241 | -8 | 226 | 313 | -10 | 294 |
| -617 | 12 | 113 | 803 | 16 | 147 |
| -358 | -19 | 144 | 465 | -24 | 188 |
| -790 | 98 | 108 | 1027 | 127 | 140 |
| -2015 | 60 | 76 | 2620 | 78 | 99 |
| -1325 | 64 | 132 | 1722 | 84 | 172 |
| -1559 | 9 | 86 | 2026 | 11 | 112 |
| -1279 | 24 | 28 | 1662 | 31 | 36 |
| -2198 | 68 | 58 | 2857 | 89 | 75 |
| -999 | 40 | 40 | 1299 | 52 | 52 |
| -1887 | 39 | 15 | 2454 | 50 | 20 |
| -2435 | 100 | 5 | 3165 | 130 | 6 |
| -2409 | 15 | 6 | 3131 | 20 | 8 |
| -1699 | 4 | 232 | 2209 | 5 | 302 |

| | | | | | |
|-------|-----|-----|------|-----|-----|
| -321 | -53 | 41 | 418 | -69 | 54 |
| -980 | -34 | 263 | 1273 | -44 | 342 |
| -1650 | 63 | 35 | 2145 | 82 | 46 |
| -1368 | 62 | 62 | 1778 | 81 | 81 |
| -2966 | 69 | 163 | 3855 | 90 | 213 |
| -2496 | 78 | 65 | 3245 | 101 | 84 |
| -1231 | 62 | 13 | 1600 | 80 | 17 |
| -2546 | 34 | 105 | 3310 | 45 | 137 |
| -2796 | 98 | 136 | 3635 | 128 | 177 |
| -2721 | 34 | 22 | 3538 | 44 | 28 |
| -2420 | 52 | 76 | 3145 | 68 | 99 |
| -2164 | -36 | 77 | 2813 | -47 | 100 |
| -2040 | -33 | 80 | 2651 | -42 | 104 |
| -2333 | -36 | 58 | 3033 | -47 | 76 |
| -1890 | 14 | 10 | 2457 | 18 | 13 |
| -1482 | 38 | 52 | 1927 | 49 | 68 |
| -1352 | 15 | 60 | 1758 | 19 | 77 |
| -1997 | 9 | 33 | 2597 | 12 | 43 |
| -2511 | -27 | 56 | 3265 | -35 | 73 |
| -2861 | -25 | 41 | 3719 | -33 | 54 |
| -1747 | 17 | 120 | 2271 | 22 | 157 |
| -1989 | -34 | 118 | 2586 | -44 | 154 |
| -2257 | 15 | 22 | 2935 | 20 | 29 |
| -2125 | -40 | 1 | 2763 | -52 | 2 |
| -2692 | -34 | 114 | 3499 | -44 | 148 |
| -1175 | -6 | 101 | 1528 | -7 | 131 |
| -2515 | 22 | 4 | 3270 | 29 | 5 |
| -505 | -55 | 47 | 656 | -72 | 61 |
| -2354 | 33 | 84 | 3060 | 43 | 109 |
| -2424 | 59 | 47 | 3151 | 77 | 61 |
| -2274 | 122 | 72 | 2957 | 159 | 94 |
| -2054 | 45 | 6 | 2670 | 59 | 7 |
| -1672 | 19 | 29 | 2174 | 25 | 38 |
| -1222 | 34 | 17 | 1588 | 44 | 22 |
| -1325 | 96 | 140 | 1722 | 124 | 181 |
| -2327 | 108 | 143 | 3025 | 141 | 186 |
| -1844 | 37 | 45 | 2397 | 48 | 59 |
| -488 | -15 | 184 | 634 | -20 | 239 |
| -1192 | 19 | 51 | 1550 | 24 | 67 |
| -1475 | 87 | 272 | 1918 | 113 | 354 |
| -2902 | 71 | 28 | 3773 | 92 | 36 |
| -1640 | 56 | 158 | 2131 | 72 | 206 |
| -432 | -60 | 45 | 562 | -78 | 58 |
| -201 | -65 | 26 | 261 | -84 | 34 |
| -1290 | 18 | 70 | 1677 | 24 | 92 |
| -1977 | 40 | 4 | 2570 | 52 | 5 |
| -1885 | 37 | 10 | 2450 | 48 | 13 |

| | | | | | |
|-------|-----|-----|------|-----|-----|
| -2022 | 37 | 69 | 2628 | 48 | 90 |
| -825 | 72 | 51 | 1073 | 94 | 67 |
| -1494 | 79 | 249 | 1942 | 103 | 324 |
| -2372 | 50 | 45 | 3083 | 65 | 58 |
| -2369 | 68 | 79 | 3080 | 88 | 102 |
| -2219 | 115 | 53 | 2885 | 149 | 69 |
| -1330 | -3 | 245 | 1729 | -4 | 319 |
| -2274 | 54 | 46 | 2957 | 70 | 60 |
| -1485 | 34 | 34 | 1930 | 44 | 44 |
| -2025 | -31 | 87 | 2632 | -41 | 113 |
| -1719 | 16 | 13 | 2235 | 21 | 17 |
| -2470 | 25 | 26 | 3211 | 32 | 33 |
| -2767 | -31 | 85 | 3597 | -41 | 110 |
| -1312 | -7 | 66 | 1705 | -9 | 86 |
| -2327 | -33 | 102 | 3026 | -42 | 133 |
| -2509 | -24 | 106 | 3262 | -32 | 138 |
| -2190 | -20 | 88 | 2847 | -26 | 115 |
| -2197 | -34 | 31 | 2856 | -44 | 41 |
| -1370 | 16 | 62 | 1781 | 21 | 81 |
| -995 | 0 | 23 | 1293 | 0 | 30 |
| -2188 | 19 | 22 | 2845 | 24 | 29 |
| -1886 | 16 | 40 | 2452 | 20 | 52 |
| -2096 | -30 | 74 | 2724 | -39 | 97 |
| -2101 | -30 | 60 | 2731 | -39 | 78 |
| -2656 | 30 | 9 | 3452 | 38 | 11 |
| -2026 | 92 | 51 | 2634 | 119 | 66 |
| -2234 | 96 | 20 | 2904 | 124 | 27 |
| -231 | -65 | 81 | 301 | -85 | 105 |
| -1497 | 13 | 19 | 1946 | 17 | 25 |
| 62 | -51 | 62 | -80 | -66 | 80 |
| -1487 | 69 | 114 | 1933 | 90 | 148 |
| -2362 | 60 | 16 | 3071 | 78 | 20 |
| -1336 | 62 | 63 | 1736 | 81 | 81 |
| -1936 | 25 | 31 | 2517 | 32 | 41 |
| -2394 | 48 | 53 | 3112 | 63 | 68 |
| -2326 | 74 | 40 | 3024 | 96 | 52 |
| -1734 | -9 | 253 | 2254 | -11 | 329 |
| -2237 | 48 | 31 | 2909 | 63 | 41 |
| -141 | -15 | 4 | 183 | -20 | 5 |
| -69 | -14 | 86 | 89 | -18 | 112 |
| -135 | 5 | 20 | 175 | 7 | 26 |
| -156 | 1 | 2 | 202 | 1 | 2 |
| -39 | -4 | 21 | 51 | -6 | 28 |
| -165 | -13 | 14 | 214 | -17 | 19 |
| -87 | -2 | 19 | 113 | -2 | 25 |
| -140 | 3 | 4 | 181 | 3 | 6 |
| -149 | 3 | 2 | 194 | 4 | 3 |

| | | | | | |
|------|-----|-----|-----|-----|-----|
| -142 | 4 | 2 | 184 | 5 | 3 |
| -120 | -18 | 75 | 156 | -24 | 97 |
| -151 | -12 | 57 | 197 | -16 | 74 |
| -118 | -3 | 11 | 153 | -3 | 14 |
| -130 | -16 | 13 | 169 | -21 | 17 |
| -115 | -6 | 28 | 150 | -7 | 36 |
| -162 | 2 | 4 | 210 | 2 | 5 |
| -144 | 2 | 3 | 187 | 3 | 3 |
| -80 | 3 | 38 | 104 | 4 | 49 |
| -137 | 4 | 5 | 178 | 5 | 7 |
| -171 | 3 | 4 | 223 | 4 | 5 |
| -132 | 2 | 3 | 171 | 2 | 3 |
| -170 | 1 | 10 | 220 | 1 | 13 |
| -92 | -11 | 22 | 120 | -14 | 28 |
| -177 | 1 | 16 | 230 | 1 | 21 |
| -163 | 1 | 4 | 211 | 1 | 5 |
| -132 | 4 | 4 | 171 | 5 | 5 |
| -151 | 3 | 0 | 196 | 3 | 1 |
| -144 | 3 | 2 | 188 | 4 | 2 |
| -117 | -17 | 14 | 153 | -21 | 18 |
| -168 | 1 | 10 | 218 | 1 | 13 |
| -154 | 8 | 9 | 200 | 11 | 11 |
| -105 | 5 | 6 | 137 | 6 | 8 |
| -152 | 2 | 3 | 198 | 3 | 4 |
| -166 | 1 | 10 | 216 | 1 | 13 |
| -143 | 7 | 2 | 185 | 9 | 3 |
| -154 | 1 | 2 | 200 | 2 | 3 |
| -141 | 3 | 1 | 183 | 4 | 2 |
| -195 | 11 | 2 | 253 | 14 | 2 |
| -63 | -8 | 13 | 82 | -10 | 17 |
| -161 | 3 | 13 | 210 | 4 | 16 |
| -95 | -14 | 19 | 123 | -18 | 25 |
| -164 | 6 | 4 | 214 | 8 | 5 |
| -145 | 3 | 14 | 189 | 3 | 18 |
| -94 | -19 | 102 | 123 | -25 | 132 |
| -15 | -2 | 16 | 19 | -2 | 21 |
| -159 | 1 | 11 | 206 | 2 | 15 |
| -158 | 1 | 5 | 205 | 2 | 7 |
| -162 | 5 | 11 | 210 | 7 | 15 |
| -119 | 7 | 8 | 154 | 9 | 10 |
| -118 | 5 | 3 | 153 | 6 | 4 |
| -118 | 5 | 1 | 154 | 7 | 2 |
| -142 | 4 | 0 | 184 | 5 | 0 |
| -155 | 4 | 1 | 202 | 5 | 1 |
| -137 | 4 | 1 | 178 | 6 | 2 |
| -137 | 3 | 2 | 179 | 4 | 3 |
| -159 | 0 | 19 | 206 | 0 | 25 |

| | | | | | |
|------|-----|----|-----|-----|----|
| -97 | -4 | 37 | 127 | -5 | 48 |
| -69 | -5 | 25 | 90 | -7 | 32 |
| -117 | 1 | 39 | 152 | 2 | 51 |
| -144 | -16 | 15 | 188 | -21 | 19 |
| -93 | 2 | 11 | 121 | 2 | 14 |
| -109 | -18 | 7 | 142 | -23 | 9 |
| -115 | 10 | 15 | 150 | 13 | 20 |
| -77 | -10 | 45 | 100 | -13 | 59 |
| -140 | -4 | 25 | 182 | -5 | 33 |
| -105 | 3 | 16 | 137 | 5 | 21 |
| -114 | -16 | 7 | 148 | -21 | 9 |
| -142 | 3 | 2 | 184 | 4 | 2 |
| -148 | 1 | 4 | 192 | 2 | 5 |
| -163 | 1 | 4 | 211 | 1 | 5 |
| -152 | 0 | 7 | 198 | 1 | 9 |
| -128 | 1 | 11 | 167 | 1 | 14 |
| -139 | 4 | 0 | 180 | 5 | 0 |
| -130 | 10 | 6 | 169 | 12 | 8 |
| -126 | 4 | 4 | 164 | 6 | 5 |
| -123 | -2 | 15 | 160 | -2 | 20 |
| -156 | 3 | 0 | 203 | 3 | 1 |
| -131 | 6 | 2 | 170 | 8 | 3 |
| -154 | -3 | 2 | 200 | -4 | 3 |
| -176 | 4 | 3 | 229 | 6 | 4 |
| -112 | -12 | 60 | 145 | -15 | 78 |
| -174 | 1 | 1 | 226 | 1 | 2 |
| -95 | -11 | 8 | 123 | -14 | 11 |
| -102 | -9 | 1 | 133 | -12 | 2 |
| -138 | 4 | 1 | 179 | 5 | 1 |
| -62 | -12 | 20 | 81 | -15 | 26 |
| -132 | 9 | 10 | 171 | 12 | 13 |
| -158 | 4 | 6 | 206 | 5 | 8 |
| -137 | 7 | 3 | 179 | 9 | 4 |
| -140 | 3 | 1 | 182 | 4 | 1 |
| -147 | 1 | 2 | 191 | 1 | 3 |
| -122 | 7 | 4 | 159 | 9 | 5 |
| -136 | 4 | 2 | 176 | 5 | 3 |
| -145 | 3 | 4 | 189 | 4 | 5 |
| -124 | 3 | 1 | 162 | 4 | 1 |
| -137 | 4 | 2 | 178 | 6 | 2 |
| -118 | 1 | 9 | 154 | 2 | 11 |
| -140 | 4 | 4 | 182 | 5 | 5 |
| -137 | 5 | 2 | 179 | 6 | 2 |
| -70 | 0 | 9 | 91 | 0 | 11 |
| -129 | 5 | 7 | 168 | 6 | 9 |
| -119 | 6 | 3 | 155 | 8 | 4 |
| -89 | -11 | 18 | 115 | -14 | 24 |

| | | | | | |
|------|-----|-----|------|-----|-----|
| -126 | -12 | 43 | 164 | -15 | 56 |
| -147 | 6 | 7 | 191 | 8 | 9 |
| -92 | -11 | 47 | 119 | -14 | 62 |
| -172 | -7 | 1 | 223 | -8 | 2 |
| -148 | -28 | 103 | 193 | -36 | 133 |
| -276 | 6 | 95 | 359 | 7 | 124 |
| -51 | -7 | 13 | 67 | -9 | 17 |
| -42 | -9 | 14 | 54 | -12 | 19 |
| -104 | -7 | 4 | 136 | -9 | 6 |
| -55 | -1 | 15 | 71 | -2 | 20 |
| -169 | 2 | 3 | 220 | 2 | 4 |
| -36 | -1 | 12 | 47 | -2 | 15 |
| -155 | 7 | 3 | 201 | 10 | 5 |
| -143 | 2 | 16 | 186 | 2 | 20 |
| -144 | 6 | 2 | 188 | 8 | 3 |
| -217 | 6 | 129 | 283 | 8 | 168 |
| -157 | -2 | 3 | 204 | -2 | 4 |
| -162 | 0 | 1 | 211 | 0 | 2 |
| -159 | 2 | 1 | 206 | 2 | 1 |
| -173 | 2 | 0 | 225 | 3 | 1 |
| -158 | 2 | 3 | 205 | 2 | 4 |
| -176 | 3 | 4 | 229 | 4 | 5 |
| -101 | -10 | 12 | 132 | -14 | 15 |
| -160 | 2 | 2 | 209 | 2 | 3 |
| -88 | -14 | 8 | 114 | -18 | 11 |
| 63 | 7 | 3 | -82 | 9 | 4 |
| 77 | 4 | 10 | -100 | 5 | 13 |
| 12 | -2 | 18 | -16 | -3 | 24 |
| -113 | -9 | 17 | 147 | -12 | 22 |
| 67 | -3 | 3 | -87 | -4 | 4 |
| 0 | -27 | 39 | 0 | -35 | 50 |
| -3 | -17 | 14 | 3 | -21 | 18 |
| 20 | -4 | 2 | -26 | -6 | 3 |
| -13 | 8 | 9 | 17 | 10 | 12 |
| 7 | -6 | 8 | -9 | -8 | 10 |
| 8 | -6 | 3 | -10 | -7 | 4 |
| 67 | 11 | 8 | -88 | 15 | 11 |

Tabella 4: sollecitazioni nel rivestimento definitivo (N>0: compressione, M>0: tende le fibre in intradosso) – Sottoattraversamento

| Setti verticali e soletta di fondo | | | | | |
|------------------------------------|-------------------------|------------------------|---------------------------------|-------------------------|------------------------|
| Sollecitazioni caratteristiche | | | Sollecitazioni di calcolo (SLU) | | |
| N _k [kN] | M _k [kNm] | T _k [kN] | N _d [kN] | M _d [kNm] | T _d [kN] |
| 17 | 0 | 2 | 22 | 0 | 3 |
| 16 | 0 | 2 | 21 | 0 | 3 |
| 25 | 0 | 0 | 33 | 0 | 0 |
| 39 | 0 | -1 | 51 | 0 | -1 |
| 43 | 0 | -1 | 56 | 0 | -1 |
| 29 | 0 | 0 | 38 | 0 | 0 |
| 28 | 0 | 0 | 36 | 0 | 0 |
| 22 | 0 | 0 | 29 | 0 | 0 |
| 22 | 0 | 0 | 29 | 0 | 0 |
| 26 | 0 | 0 | 34 | 0 | 0 |
| 18 | 0 | 2 | 24 | 0 | 3 |
| 15 | 0 | 2 | 19 | 0 | 2 |
| 20 | 0 | 0 | 26 | 0 | 0 |
| 41 | 0 | -1 | 53 | 0 | -1 |
| 35 | 0 | -1 | 45 | 0 | -1 |
| 32 | 0 | 0 | 42 | 0 | 0 |
| 29 | 0 | 0 | 37 | 0 | 0 |
| 23 | 0 | 0 | 30 | 0 | 0 |
| 24 | 0 | 0 | 31 | 0 | 0 |
| 23 | 0 | 0 | 30 | 0 | 0 |
| 21 | 0 | 2 | 27 | 0 | 3 |
| 19 | 0 | 2 | 25 | 0 | 2 |
| 33 | 0 | -1 | 43 | 0 | -1 |
| 31 | 0 | -1 | 40 | 0 | -1 |
| 29 | 0 | 0 | 38 | 0 | 0 |
| 22 | 0 | 0 | 28 | 0 | 0 |
| 24 | 0 | 0 | 31 | 0 | 0 |
| 23 | 0 | 0 | 29 | 0 | 0 |
| 24 | 0 | 0 | 31 | 0 | 0 |
| 29 | 0 | 0 | 38 | 0 | 0 |
| 14 | 0 | 3 | 19 | 0 | 4 |
| 19 | 0 | 3 | 24 | 0 | 4 |
| 37 | 0 | 0 | 49 | 0 | 0 |
| 24 | 0 | 0 | 31 | 0 | 0 |
| 46 | 0 | -1 | 60 | 0 | -1 |
| 46 | 0 | -1 | 60 | 0 | -1 |
| 32 | 0 | 0 | 41 | 0 | 0 |
| 22 | 0 | 0 | 28 | 0 | 0 |
| 26 | 0 | 0 | 34 | 0 | 0 |
| 6 | 0 | 0 | 8 | 0 | 1 |
| 19 | 0 | 3 | 25 | 0 | 3 |

| | | | | | |
|-----|---|----|-----|---|----|
| 16 | 0 | 2 | 21 | 0 | 3 |
| 42 | 0 | -1 | 55 | 0 | -1 |
| 21 | 0 | 0 | 28 | 0 | 0 |
| 26 | 0 | 0 | 34 | 0 | 0 |
| 32 | 0 | 0 | 41 | 0 | 0 |
| 34 | 0 | 0 | 44 | 0 | 0 |
| 46 | 0 | -1 | 59 | 0 | -1 |
| 30 | 0 | 0 | 39 | 0 | 0 |
| 28 | 0 | 0 | 37 | 0 | 0 |
| 18 | 0 | 3 | 23 | 0 | 3 |
| 17 | 0 | 2 | 22 | 0 | 3 |
| 37 | 0 | 0 | 48 | 0 | 0 |
| 36 | 0 | 0 | 47 | 0 | 0 |
| 45 | 0 | -1 | 59 | 0 | -1 |
| 20 | 0 | 0 | 26 | 0 | 0 |
| 25 | 0 | 0 | 32 | 0 | 0 |
| 47 | 0 | -1 | 61 | 0 | -1 |
| 35 | 0 | 0 | 45 | 0 | 0 |
| 22 | 0 | 0 | 29 | 0 | 0 |
| 27 | 0 | 0 | 35 | 0 | -1 |
| 22 | 0 | 1 | 29 | 0 | 1 |
| 26 | 0 | -1 | 34 | 0 | -1 |
| 19 | 0 | 0 | 24 | 0 | 1 |
| 4 | 0 | 0 | 5 | 0 | -1 |
| 18 | 0 | 0 | 24 | 0 | 0 |
| 12 | 0 | -1 | 16 | 0 | -1 |
| 9 | 0 | 0 | 12 | 0 | 0 |
| 13 | 0 | 0 | 17 | 0 | 0 |
| 30 | 0 | 0 | 39 | 0 | 0 |
| -11 | 0 | 1 | -14 | 0 | 1 |
| -5 | 0 | 0 | -7 | 0 | 0 |
| -8 | 0 | 0 | -11 | 0 | 0 |
| -6 | 0 | 1 | -8 | 0 | 1 |
| -15 | 0 | -1 | -19 | 0 | -1 |
| -25 | 0 | 0 | -33 | 0 | 0 |
| -38 | 0 | 1 | -50 | 0 | 1 |
| -65 | 0 | -1 | -84 | 0 | -2 |
| -25 | 0 | 0 | -33 | 0 | 0 |
| -43 | 0 | 0 | -56 | 0 | 0 |
| -50 | 0 | 0 | -64 | 0 | 0 |
| -43 | 0 | 1 | -56 | 0 | 1 |
| -26 | 0 | 2 | -34 | 0 | 3 |
| -62 | 0 | -1 | -81 | 0 | -2 |
| -36 | 0 | 0 | -47 | 0 | 1 |
| -51 | 0 | 1 | -66 | 0 | 1 |
| -32 | 0 | 2 | -42 | 0 | 3 |
| -30 | 0 | -1 | -39 | 1 | -1 |

| | | | | | |
|-----|---|----|------|---|----|
| -33 | 0 | 0 | -43 | 1 | -1 |
| -24 | 0 | 2 | -31 | 0 | 2 |
| -5 | 0 | 0 | -6 | 0 | 0 |
| -16 | 0 | 0 | -21 | 0 | 0 |
| -6 | 0 | 1 | -8 | 0 | 2 |
| -3 | 0 | 0 | -4 | 0 | -1 |
| -17 | 0 | -1 | -22 | 0 | -1 |
| 12 | 0 | 3 | 16 | 0 | 4 |
| -25 | 0 | 1 | -32 | 0 | 1 |
| -19 | 0 | 1 | -24 | 0 | 1 |
| -34 | 0 | 0 | -44 | 0 | 0 |
| -24 | 1 | 0 | -31 | 1 | 0 |
| -25 | 0 | 0 | -32 | 1 | -1 |
| -7 | 0 | 2 | -9 | 0 | 2 |
| -7 | 0 | 2 | -9 | 0 | 2 |
| -9 | 0 | 2 | -12 | 0 | 2 |
| -11 | 0 | 0 | -14 | 0 | 0 |
| -16 | 0 | 0 | -21 | 0 | 0 |
| -11 | 0 | 0 | -15 | 0 | 0 |
| -26 | 0 | 0 | -34 | 0 | 1 |
| -29 | 0 | -1 | -37 | 0 | -1 |
| -92 | 0 | 2 | -120 | 1 | 2 |
| -75 | 0 | -3 | -97 | 0 | -4 |
| -79 | 1 | -6 | -102 | 1 | -8 |
| -33 | 0 | 1 | -43 | 0 | 1 |
| -39 | 0 | 0 | -50 | 1 | 0 |
| -42 | 0 | 0 | -54 | 1 | 0 |
| -60 | 0 | 1 | -79 | 1 | 1 |
| -37 | 0 | 1 | -48 | 0 | 2 |
| -63 | 0 | -2 | -82 | 0 | -2 |
| -7 | 0 | 1 | -9 | 0 | 1 |
| -13 | 1 | 1 | -17 | 1 | 1 |
| -18 | 0 | 0 | -24 | 0 | 1 |
| -9 | 0 | 0 | -12 | 0 | 0 |
| -10 | 0 | 1 | -13 | 0 | 1 |
| -12 | 0 | 1 | -16 | 0 | 1 |
| -13 | 0 | 1 | -16 | 0 | 1 |
| -12 | 0 | 1 | -16 | 1 | 1 |
| -11 | 1 | 1 | -14 | 1 | 1 |
| -8 | 0 | 1 | -11 | 0 | 1 |
| -52 | 0 | 2 | -68 | 0 | 2 |
| -51 | 0 | -2 | -66 | 1 | -3 |
| -35 | 0 | -2 | -46 | 0 | -2 |
| -19 | 0 | 0 | -25 | 0 | 0 |
| -31 | 0 | 0 | -40 | 0 | 0 |
| -35 | 0 | -1 | -46 | 0 | -1 |
| -14 | 0 | 0 | -18 | 0 | 0 |

| | | | | | |
|-----|---|----|-----|---|----|
| -11 | 0 | 1 | -14 | 0 | 1 |
| -39 | 0 | 0 | -50 | 0 | 0 |
| -13 | 0 | 1 | -17 | 0 | 1 |
| -10 | 0 | 0 | -13 | 0 | 0 |
| -10 | 0 | 1 | -13 | 0 | 1 |
| -14 | 0 | 0 | -19 | 0 | 0 |
| -25 | 0 | -1 | -33 | 0 | -1 |
| -14 | 1 | 1 | -18 | 1 | 1 |
| -17 | 0 | 1 | -22 | 0 | 1 |
| -14 | 0 | 1 | -18 | 0 | 1 |
| -19 | 1 | 0 | -24 | 1 | 0 |
| -30 | 0 | 1 | -39 | 0 | 1 |
| 6 | 0 | 0 | 8 | 0 | 0 |
| -19 | 0 | 0 | -24 | 0 | 0 |
| -12 | 0 | 0 | -16 | 0 | -1 |
| -4 | 0 | 0 | -5 | 0 | 0 |
| -12 | 0 | 0 | -15 | 0 | 0 |
| -55 | 0 | -2 | -71 | 0 | -3 |
| -45 | 0 | 2 | -59 | 0 | 3 |
| 34 | 0 | 0 | 44 | 0 | 0 |
| -52 | 0 | -1 | -68 | 0 | -1 |
| 2 | 0 | 0 | 3 | 0 | 0 |
| -66 | 1 | 0 | -85 | 1 | -1 |
| -22 | 0 | -1 | -28 | 0 | -1 |
| -75 | 0 | -4 | -98 | 1 | -5 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | -1 | 1 | 0 | -1 |
| -48 | 0 | 1 | -62 | 0 | 1 |
| -36 | 0 | 0 | -46 | 0 | 0 |
| -21 | 0 | 1 | -28 | 0 | 1 |
| -14 | 0 | 0 | -18 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 | 0 |
| -28 | 0 | -1 | -37 | 0 | -1 |
| 12 | 0 | -1 | 15 | 0 | -2 |
| -8 | 0 | 0 | -11 | 0 | -1 |
| -11 | 0 | 0 | -14 | 0 | -1 |
| -29 | 0 | 0 | -37 | 0 | 0 |
| -29 | 0 | 0 | -38 | 0 | 0 |
| -11 | 0 | 0 | -14 | 0 | 0 |
| -4 | 0 | 0 | -5 | 1 | 0 |
| -12 | 0 | -1 | -16 | 0 | -1 |
| -2 | 0 | 0 | -2 | 0 | -1 |
| -14 | 0 | 0 | -18 | 0 | 0 |
| -5 | 0 | -1 | -7 | 1 | -1 |
| 4 | 0 | 0 | 6 | 0 | 0 |
| -4 | 0 | 0 | -5 | 1 | -1 |
| 1 | 0 | -1 | 2 | 0 | -1 |

| | | | | | |
|-----|----|----|-----|----|----|
| 3 | 0 | 0 | 4 | 0 | 0 |
| 1 | 0 | 0 | 2 | 0 | -1 |
| -7 | 0 | -1 | -9 | 1 | -1 |
| 2 | 0 | 0 | 3 | 0 | 0 |
| -4 | 0 | -1 | -5 | 0 | -1 |
| -4 | 0 | 0 | -5 | 0 | 0 |
| -14 | 0 | -1 | -18 | 0 | -1 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | -1 | 7 | 0 | -1 |
| 7 | 0 | -1 | 9 | 0 | -1 |
| 2 | 0 | 0 | 3 | 0 | 0 |
| 3 | 0 | -1 | 4 | 0 | -1 |
| -17 | 0 | 1 | -22 | 0 | 1 |
| 54 | 0 | 0 | 71 | -1 | 0 |
| -35 | 0 | -2 | -46 | 1 | -2 |
| 0 | 0 | 2 | -1 | -1 | 3 |
| 120 | 0 | 0 | 156 | 0 | 0 |
| 57 | 0 | 0 | 74 | 0 | 0 |
| 81 | -1 | 1 | 105 | -1 | 1 |
| -56 | -1 | 2 | -73 | -1 | 2 |
| -7 | 0 | 0 | -9 | 0 | 0 |
| -45 | 0 | 0 | -59 | 0 | 0 |
| -22 | 0 | 2 | -29 | 0 | 2 |
| -31 | 0 | 0 | -40 | 0 | 0 |
| -10 | 0 | 0 | -13 | 0 | 0 |
| -12 | 0 | 0 | -15 | 0 | 0 |
| 3 | 0 | 0 | 4 | 0 | -1 |
| -56 | -1 | 7 | -73 | -1 | 9 |
| -7 | 0 | 0 | -9 | 0 | 0 |
| -32 | 0 | 0 | -42 | 0 | 0 |
| -43 | 0 | 1 | -56 | 0 | 1 |
| -5 | 0 | 0 | -7 | 0 | 0 |
| -16 | 0 | 0 | -20 | 0 | 0 |
| -6 | 0 | 0 | -8 | 0 | 0 |
| -14 | 0 | 0 | -18 | 0 | 0 |
| 9 | 0 | 0 | 12 | 0 | 0 |
| -13 | 0 | 3 | -18 | 0 | 4 |
| -7 | 0 | 1 | -9 | 0 | 2 |
| 8 | 0 | 0 | 11 | 0 | 0 |
| -13 | 0 | 2 | -17 | 0 | 2 |
| 28 | 0 | 0 | 36 | 0 | 0 |
| 27 | 0 | 0 | 34 | 0 | 0 |
| 37 | 0 | -1 | 48 | 0 | -1 |
| 27 | 0 | 0 | 36 | 0 | 0 |
| 44 | 0 | -1 | 57 | 0 | -1 |
| 25 | 0 | 0 | 33 | 0 | 0 |
| 36 | 0 | -1 | 47 | 0 | -1 |

| | | | | | |
|----|----|----|----|----|----|
| 34 | 0 | 0 | 44 | 0 | 0 |
| 44 | 0 | -1 | 57 | 0 | -1 |
| 43 | 0 | -1 | 56 | 0 | -1 |
| 40 | 0 | -1 | 52 | 0 | -1 |
| 44 | 0 | -1 | 57 | 0 | -1 |
| 28 | 0 | 0 | 36 | 0 | 0 |
| 28 | 0 | 0 | 36 | 0 | 0 |
| 21 | 0 | 0 | 27 | 0 | 0 |
| 28 | 0 | 0 | 36 | 0 | 1 |
| 35 | 0 | 1 | 45 | 0 | 1 |
| 42 | 0 | -1 | 55 | 0 | -1 |
| 23 | 0 | 1 | 29 | 0 | 1 |
| 26 | 0 | 0 | 33 | 0 | 0 |
| 34 | 0 | 0 | 45 | 0 | 0 |
| 33 | 0 | 0 | 43 | 0 | 1 |
| 66 | 0 | 0 | 86 | 0 | 0 |
| 28 | 0 | 0 | 36 | 0 | 0 |
| 2 | 0 | 0 | 2 | 0 | 0 |
| 46 | 0 | 0 | 60 | 0 | 0 |
| 38 | 0 | -1 | 49 | 0 | -1 |
| 43 | 0 | -1 | 56 | 0 | -1 |
| 37 | 0 | -1 | 48 | 0 | -1 |
| 52 | 0 | 0 | 67 | -1 | 0 |
| 34 | 0 | 0 | 44 | 0 | 0 |
| 19 | 0 | 0 | 24 | 0 | 0 |
| 37 | 0 | 0 | 49 | 0 | 0 |
| 36 | 0 | 0 | 47 | 0 | 0 |
| 34 | 0 | 0 | 45 | 0 | 0 |
| 33 | 0 | 0 | 43 | 0 | 1 |
| 40 | 0 | 0 | 52 | 0 | 0 |
| 35 | 0 | 0 | 45 | 0 | 0 |
| 34 | 0 | 0 | 44 | 0 | 0 |
| 34 | 0 | 0 | 44 | 0 | 0 |
| 38 | 0 | 0 | 49 | 0 | 0 |
| 39 | 0 | -1 | 51 | 0 | -1 |
| 52 | 0 | 0 | 68 | 0 | 0 |
| 37 | 0 | 0 | 49 | 0 | 0 |
| 34 | 0 | 0 | 44 | 0 | 0 |
| 41 | 0 | -1 | 53 | 0 | -1 |
| 43 | 0 | -1 | 55 | 0 | -1 |
| 14 | -1 | 0 | 18 | -1 | 0 |
| 42 | 0 | 0 | 55 | 0 | 0 |
| 39 | 0 | 0 | 50 | 0 | 0 |
| 39 | 0 | 0 | 51 | 0 | 0 |
| 56 | 0 | 0 | 72 | 0 | -1 |
| 40 | 0 | 0 | 52 | 0 | 0 |
| 42 | 0 | -1 | 55 | 0 | -1 |

| | | | | | |
|---|-----|-----|------|-----|-----|
| 42 | 0 | 0 | 54 | 0 | 0 |
| 24 | 0 | 0 | 32 | 0 | 0 |
| 56 | 0 | 0 | 73 | 0 | 0 |
| 41 | 0 | 0 | 54 | 0 | 0 |
| 59 | 0 | 0 | 76 | 0 | 0 |
| 34 | 0 | 0 | 44 | 0 | 0 |
| 31 | 0 | 0 | 41 | 0 | 0 |
| 48 | 0 | -1 | 62 | 0 | -1 |
| 50 | 0 | 0 | 65 | 0 | -1 |
| 34 | 0 | 0 | 44 | 0 | 0 |
| 26 | 0 | 0 | 33 | 0 | 0 |
| 23 | 0 | 0 | 31 | 0 | 0 |
| 35 | 0 | 0 | 46 | 0 | 0 |
| 38 | 0 | -1 | 49 | 0 | -1 |
| 21 | 0 | 0 | 28 | 0 | 0 |
| 31 | 0 | 0 | 41 | 0 | 0 |
| 36 | 0 | 0 | 47 | 0 | 0 |
| 42 | 0 | -1 | 55 | 0 | -1 |
| 25 | 0 | 0 | 33 | 0 | 0 |
| 42 | 0 | -1 | 54 | 0 | -1 |
| 42 | 0 | -1 | 54 | 0 | -1 |
| 31 | 0 | 0 | 41 | 0 | 0 |
| 40 | 0 | -1 | 52 | 0 | -1 |
| 39 | 0 | -1 | 51 | 0 | -1 |
| -35 | 0 | -1 | -45 | 0 | -1 |
| -48 | 0 | 1 | -63 | 0 | 1 |
| -31 | 0 | 2 | -40 | 0 | 2 |
| -13 | 0 | -4 | -16 | 0 | -5 |
| -53 | 0 | 0 | -68 | 0 | 0 |
| -46 | 0 | -3 | -60 | 0 | -4 |
| -23 | 0 | -6 | -29 | 0 | -8 |
| -26 | 0 | 0 | -33 | 0 | 0 |
| -20 | 0 | -6 | -26 | 0 | -7 |
| 335 | 0 | 3 | 436 | 0 | 4 |
| 171 | 0 | 42 | 222 | 1 | 55 |
| 566 | 1 | -5 | 736 | 1 | -6 |
| 242 | 0 | -2 | 314 | 0 | -3 |
| 143 | -2 | 31 | 186 | -2 | 40 |
| 77 | 0 | -16 | 100 | 0 | -20 |
| 78 | 1 | 25 | 101 | 2 | 33 |
| 150 | -1 | 1 | 195 | -1 | 1 |
| 94 | 1 | 10 | 123 | 1 | 13 |
| Soletta superiore in direzione trasversale al sottoattraversamento | | | | | |
| 2848 | 620 | 193 | 3702 | 805 | 252 |
| 3388 | 556 | 94 | 4404 | 723 | 123 |
| 3075 | 517 | 68 | 3998 | 672 | 89 |
| 2836 | 581 | 83 | 3686 | 756 | 108 |

| | | | | | |
|--|-----|-----|------|------|-----|
| 3023 | 629 | 188 | 3930 | 818 | 244 |
| 3049 | 546 | 84 | 3963 | 710 | 110 |
| 2752 | 550 | 81 | 3578 | 715 | 106 |
| 2866 | 559 | 56 | 3726 | 727 | 73 |
| 1900 | 687 | 147 | 2470 | 893 | 192 |
| 2575 | 634 | 203 | 3348 | 824 | 263 |
| 1959 | 566 | 51 | 2547 | 735 | 66 |
| 2019 | 608 | 80 | 2625 | 790 | 105 |
| 1566 | 621 | 66 | 2036 | 808 | 86 |
| 1503 | 589 | 33 | 1954 | 766 | 43 |
| 1803 | 676 | 153 | 2344 | 879 | 199 |
| 1530 | 721 | 137 | 1989 | 938 | 178 |
| 1862 | 583 | 5 | 2420 | 758 | 6 |
| 1935 | 582 | 79 | 2515 | 756 | 103 |
| 1572 | 601 | 79 | 2044 | 782 | 103 |
| 1450 | 598 | 69 | 1885 | 778 | 90 |
| 1403 | 681 | 82 | 1824 | 886 | 107 |
| 1557 | 702 | 112 | 2024 | 912 | 145 |
| 1357 | 535 | 54 | 1764 | 696 | 71 |
| 1512 | 590 | 10 | 1965 | 767 | 13 |
| 1473 | 669 | 73 | 1915 | 869 | 95 |
| 1574 | 533 | 25 | 2046 | 693 | 33 |
| 1657 | 565 | 48 | 2154 | 735 | 62 |
| 1501 | 589 | 72 | 1951 | 766 | 93 |
| 1595 | 642 | 68 | 2073 | 835 | 88 |
| 1434 | 538 | 68 | 1864 | 699 | 89 |
| 1645 | 635 | 77 | 2139 | 826 | 100 |
| 2065 | 494 | -5 | 2685 | 642 | -6 |
| 2111 | 628 | 146 | 2744 | 817 | 189 |
| 1716 | 562 | 52 | 2231 | 730 | 67 |
| 2205 | 518 | 53 | 2866 | 673 | 69 |
| 1662 | 535 | 3 | 2160 | 696 | 4 |
| 2166 | 620 | 85 | 2816 | 805 | 110 |
| 3044 | 369 | -16 | 3958 | 480 | -21 |
| 3184 | 439 | 82 | 4140 | 570 | 107 |
| 2308 | 516 | 73 | 3000 | 671 | 95 |
| 2178 | 495 | -1 | 2832 | 643 | -2 |
| 3128 | 513 | 76 | 4067 | 667 | 99 |
| 3795 | 472 | 63 | 4933 | 613 | 82 |
| 3588 | 416 | 82 | 4665 | 540 | 107 |
| 3422 | 501 | 83 | 4448 | 652 | 108 |
| 3246 | 367 | 60 | 4220 | 477 | 78 |
| 3799 | 308 | 57 | 4939 | 401 | 74 |
| 3244 | 439 | 73 | 4217 | 570 | 95 |
| Soletta superiore forata in direzione trasversale al sottoattraversamento | | | | | |
| 2212 | 798 | 40 | 2875 | 1037 | 52 |
| 2314 | 606 | 73 | 3009 | 788 | 95 |

| | | | | | |
|------|------|-----|------|------|-----|
| 2345 | 934 | 103 | 3049 | 1214 | 134 |
| 2287 | 1058 | 142 | 2974 | 1375 | 185 |