# STATE OF CONNECTICUT

*CONNECTICUT SITING COUNCIL*

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
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Web Site: www.state.ct.us/csc/index.htm


January 12, 2001

Lisa K. Kent, Esq.
Rubenstein & Green, L.L.C.
315 Post Road West
P.O. Box 5143
Westport, CT 06881-5143

RE: **EM-METRICOM-076-001226** - Metricom, Inc. notice of intent to modify an existing telecommunications facility located at 135 New Road, Madison, Connecticut.

Dear Ms. Kent:

At a public meeting held on January 11, 2001, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 22, 2000. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable David S. LaFemina, First Selectman, Town of Madison
Julian Pedini, WFI
Salvatore Giuliano, Real Estate & Land Planning, CL&P
Julie M. Cashin, Esq., Hurwitz & Sagarin, LLC
J. Brendan Sharkey, VoiceStream Wireless Corporation

**RUBENSTEIN & GREEN, L.L.C.**
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EM-METRICOM-076-001226

315 POST ROAD WEST
POST OFFICE BOX 5143
ORT, CONNECTICUT 06881-5143
TELEPHONE: (203) 222-0022
TELECOPIER: (203) 227-0766

December 22, 2000



Mr. Joel M. Rinebold, Executive Director
Connecticut Siting Council
10 Franklin Street
New Britain, Connecticut 06051

**RE: Metricom, Inc., Notice of Intent to Modify an Existing Telecommunications Tower located at 135 New Road, Madison, Connecticut**

Dear Mr. Rinebold:

Enclosed please find one original and twenty (20) copies of the following documents in support of the above states application:

1. Notice of Intent to Modify an existing telecommunications tower pursuant to Connecticut Agencies Regulations Section 16-50j-72(b)(2).

2. Owners Letter of Authorization of CL&P dated December 12,2000.

3. Structural Report by H.E. Bergeron Engineers dated September 12, 2000.

4. Radio Frequency Emissions Report, prepared by Edwards and Kelcey, dated December 1, 2000, demonstrating that the radio emissions from the proposed Facility will be below all FCC and State radio emission standards.( Please note I am enclosing 4 copies with exhibits and 17 copies of the summary only—please advise if you need all with exhibits).

5. Site Plan Drawings prepared, signed and sealed by URS Corporation dated November 6,2000 as revised through December1, 2000.

6. Application fee in the amount to $500.00.

If you have any questions regarding the enclosed materials, please don't hesitate to contact me.

Very truly yours,

Lisa Kent

LKK:lnst.o
Enclosures
cc: Mr. Julian Pedini (w/out enclosures)

# RUBENSTEIN & GREEN, L.L.C.

Attorneys and Counsellors at Law
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315 POST ROAD WEST
POST OFFICE BOX 5143
WESTPORT, CONNECTICUT 06881-5143
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December 20, 2000

Mr. Mortimer A. Gelston, Chairman,
Connecticut Siting Council
10 Franklin Street
New Britain, Connecticut 06051

**RE: Metricom, Inc.'s Notice of Intent to Modify an Existing Telecommunications Tower located at 135 New Road, Madison, Connecticut**

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

Metricom, Inc., ("Metricom") requests approval to install additional antennas, cables and accessory equipment (the "Metricom Facility") at the existing tower owned by CL&P (the"Tower") and facility (the "CL&P Facility") located at Latitude 41°, 17', 35", Longitude 72°, 34', 42" and commonly known as 135 New Road, in the Town of Madison. Metricom requests a determination from the Siting Council that the addition of the Metricom Facility constitutes an exempt modification pursuant to Section 16-50j-72(b)(2) of the R.C.S.A., and will not constitute a modification to an existing telecommunications Tower that may have a substantial adverse environmental effect.

The CL&P Facility

The CL&P Facility consists of a 180' Tower and other equipment at grade level within a fenced compound. Sprint and Omnipoint are also located on the Tower.

Metricom's Facility

Metricom is licensed by the Federal Communications Commission to provide high-speed wireless access to the Internet throughout the State of Connecticut. As shown on the enclosed plans prepared by URS Corporation, which includes a site plan and elevation, Metricom will install Sixteen (16) Larsen panel antenna at the 69'10" centerline of the Tower and install a necessary equipment cabinet on a 7' x 7'6" concrete pad located within the existing compound.

For the following reasons the proposed Metricom Facility complies with the express requirements set forth in 16-50j-72(b)(2) of the R.C.S.A.:

1. The Metricom Facility will not extend the Tower's height. The existing Tower is 180' in height and Metricom's proposed antennas will be installed at the 69'10" centerline level of the Tower. See "Monopole Elevation" on Sheet SC-2 of the enclosed plans.

2. The site boundaries will not be extended. See "Site Plan" on Sheets SC-1 and SC-2 of the enclosed plans.

3. The proposed Metricom Facility will not increase the noise levels at the existing CL&P Facility by six decibels or more.

4. The operation of Metricom's antennas will not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. The maximum potential exposure level around the Tower induced by the Metricom system is 0.0007 $mW/cm^2$, which represents 0.119% of the FCC limit for continuous exposure of the general population. As the RF Exposure Report indicates, the "worst case" cumulative emissions from all existing and proposed Metricom antennas on the Tower equals 83.005% of the FCC limit for continuous exposure of the general population. See "Analysis and Report of RF Exposure Levels and Compliance with FCC Regulations", prepared by Edwards and Kelcey, attached hereto.

A structural analysis report demonstrating that the existing Tower is capable of supporting the proposed Metricom Facility is also submitted with this application.

Finally, please note that in accordance with Section 16-50j-73 of the R.C.S.A., a copy of this Application is being provided to the First Selectman of Madison.

Conclusion:

The proposed Metricom Facility advances the General Assembly's and the Siting Council's goal of preventing the proliferation of Towers in the State of Connecticut. Therefore, Metricom respectfully requests that the Siting Council determine that the proposed Metricom Facility fully complies with the requirements of Section 16-50j-72(b)(2) of the R.C.S.A. and is an exempt modification of an existing Tower Facility. If you have any questions concerning this Application, please do not hesitate to contact me at (203) 222-0022.

Respectfully submitted,

Lisa Kent, Esq.

cc: David LaFemina, First Selectman of Madison

RF Emissions Experts

AN EDWARDS AND KELCEY SERVICE

# Analysis and Report of RF Exposure Levels and Compliance with FCC Regulations

## Madison, CT Site
## 135 New Road
## NYC0016

*Prepared for*

## Metricom

*December 1, 2000*


EDWARDS AND KELCEY
299 Madison Avenue - PO Box 1936
Morristown, NJ 07962-1936

Tel: 973-267-8830 Fax: 973-267-3555
Email: sleader@ekmail.com
Internet: http://www.ekcorp.com

RF Emissions Experts
AN EDWARDS AND KELCEY SERVICE

**FCC RF COMPLIANCE ANALYSIS FOR**

**Metricom**

**Madison, CT Tower**

This site compliance report is organized as follows:

- Site Technical Data (supplied by client)
- Analysis Method and Assumptions
- Applicable Formulas
- Analysis Results
- Conclusion

## *SITE TECHNICAL DATA*

| | |
|---|---|
| Facility type | Tower |
| Frequency bands | 920 MHz / 2.4 GHz |
| Antenna type | Dual Band |
| Antenna major dimension (length) | 3 ft |
| Maximum antenna gain (920 MHz / 2.4 GHz) | 7dBi / 15dBi |
| Antenna mounting height | 69' – 10" above ground |
| Total number of antennas | 16 Dual Band |
| Total power input to each antenna | 1 watt |
| Maximum effective isotropic radiated power (EIRP) per antenna | 36dBm @ 920 MHz<br>42dBm @ 2.4 GHz |
| Other facilities within 500 feet | See Report |

## *ANALYSIS METHOD AND ASSUMPTIONS*

| | |
|---|---|
| Type of analysis | Maximum / ground-level |
| Area analyzed | 0' to 500' from tower |
| Classification of area | Uncontrolled (gen. pop.) |
| FCC Maximum Permissible Exposure (MPE) limit | 0.613 mW/ $cm^2$ (920 MHz)<br>1.000 mW/ $cm^2$ (2.4 GHz) |
| Mathematical model | Point source, far field |
| Assumed ground reflection factor | 100% |
| Assumed human height | 6'0" |
| Vertical antenna discrimination | from Ant. Mfr. data |

## *APPLICABLE FORMULAS*

According to FCC Bulletin OET65, different mathematical models apply to different distances around an antenna. At the height of the antenna, the breakpoint is the "far-field distance", calculated as the ratio of the square of the major dimension of the antenna divided by the signal wavelength . Beyond the far-field distance at the height of the antenna, as well as at ground-level underneath the antenna, a "far-field point source" model applies; within that distance, a "near-field cylindrical model applies. The subsections below provide background on the two applicable models in the 920 MHz band.

Far-Field Point Source Model

(1) $S\ [mW/cm^2] = ( 4 * EIRP_{max} * VertAntDisc(\phi) ) / ( 4 * \pi * R^2_{cm} )$

(2) FCC MPE limit = (920 MHz / 1500 MHz) $mW/cm^2$, or 0.613 $mW/cm^2$

(3) $MPE\% = 100 * (S / 0.613)$

where:

| | | |
|---|---|---|
| S | = | Calculated power density |
| 4 (in numerator) | = | 100% field ground reflection effect (has $[1 + 1]^2 = 4$ effect on power density ) |
| $EIRP_{max}$ | = | Maximum effective isotropically radiated power (Note: EIRP is 64% higher than ERP, which is referenced to a half-wave dipole) |
| VertAntDisc($\phi$) | = | Numeric factor for antenna discrimination (EIRP reduction) in the vertical plane, applicable at downward angle $\phi$ to a 6' human standing on ground, calculated at distances from 0' to 500' away from the antenna |
| R | = | Straight-line distance from antenna to 6' human |
| MPE% | = | Calculated exposure level, as a percentage of the FCC MPE limit for continuous exposure of the general population |

Near-Field Cylindrical Model

(1) $S\ [mW/cm^2] = (P_i * ACF / ( 2 \pi R\ h )$

(2) FCC MPE limit = (920 MHz / 1500 MHz) $mW/cm^2$, or 0.627 $mW/cm^2$

(3) MPE% = 100 * (S / 0.613)

where:

| | | |
|---|---|---|
| S | = | Calculated power density |
| $P_i$ | = | Total power input to the antenna, in mW |
| ACF | = | Antenna correction factor (adjustment to near-field power density calculation to compensate for the antenna mounting height above ground level and resulting partial-body exposure; see Richard Tell article listed in the References) |
| R | = | Straight-line distance from antenna to 6' human |
| h | = | Subtended height of the antenna, in cm |
| MPE% | = | Calculated exposure level, as a percentage of the FCC MPE limit for continuous exposure of the general population |

***ANALYSIS RESULTS – GROUND-LEVEL***

The Tables on the following pages, summarize the results of the calculations using the site data, method and far-field point source formula described above. Note that the information on the vertical antenna discrimination has been taken from the antenna manufacturer's specification sheets. In addition, note that while the tabular distances are listed in feet, the calculations translate these units into centimeters, to match the FCC specification of MPE units.

Our calculations included consideration of the antenna arrays and their deployment on the tower. EK assumed that there will be significant overlap of the individual antenna patterns and used a multiplication factor of eight (8) to derive a "worst case" scenario.

| Metricom 920 MHz Antenna Array | | | | | |
|---|---|---|---|---|---|
| **G dist** | **R dist** | **V angle** | **V disc** | **mWcm$^2$** | **GPMPE%** |
| 0 | 61.5 | 90.0 | 0.251 | 0.0007 | 0.119 |
| 20 | 64.7 | 72.0 | 0.251 | 0.0007 | 0.108 |
| 40 | 73.4 | 57.0 | 0.251 | 0.0005 | 0.084 |
| 60 | 85.9 | 45.7 | 0.398 | 0.0006 | 0.097 |
| 80 | 100.9 | 37.6 | 0.631 | 0.0007 | 0.111 |
| 100 | 117.4 | 31.6 | 0.631 | 0.0005 | 0.082 |
| 120 | 134.8 | 27.1 | 0.794 | 0.0005 | 0.079 |
| 140 | 152.9 | 23.7 | 0.794 | 0.0004 | 0.061 |
| 160 | 171.4 | 21.0 | 0.794 | 0.0003 | 0.049 |
| 180 | 190.2 | 18.9 | 1.000 | 0.0003 | 0.050 |
| 200 | 209.2 | 17.1 | 1.000 | 0.0003 | 0.041 |
| 220 | 228.4 | 15.6 | 1.000 | 0.0002 | 0.034 |
| 240 | 247.8 | 14.4 | 1.000 | 0.0002 | 0.029 |
| 260 | 267.2 | 13.3 | 1.000 | 0.0002 | 0.025 |
| 280 | 286.7 | 12.4 | 1.000 | 0.0001 | 0.022 |
| 300 | 306.2 | 11.6 | 1.000 | 0.0001 | 0.019 |
| 320 | 325.9 | 10.9 | 1.000 | 0.0001 | 0.017 |
| 340 | 345.5 | 10.3 | 1.000 | 0.0001 | 0.015 |
| 360 | 365.2 | 9.7 | 1.000 | 0.0001 | 0.013 |
| 380 | 384.9 | 9.2 | 1.000 | 0.0001 | 0.012 |
| 400 | 404.7 | 8.7 | 1.000 | 0.0001 | 0.011 |
| 420 | 424.5 | 8.3 | 1.000 | 0.0001 | 0.010 |
| 440 | 444.3 | 8.0 | 1.000 | 0.0001 | 0.009 |
| 460 | 464.1 | 7.6 | 1.000 | 0.0001 | 0.008 |
| 480 | 483.9 | 7.3 | 1.000 | 0.0000 | 0.008 |
| 500 | 503.8 | 7.0 | 1.000 | 0.0000 | 0.007 |

**Table 1.** 920 MHz Ground level RF power density and percent-of-MPE calculations

| Metricom 2.4 GHz Antenna Array | | | | | |
|---|---|---|---|---|---|
| G dist | R dist | V angle | V disc | $mWcm^2$ | GPMPE% |
| 0 | 61.5 | 90.0 | 0.005 | 0.0001 | 0.009 |
| 20 | 64.7 | 72.0 | 0.005 | 0.0001 | 0.009 |
| 40 | 73.4 | 57.0 | 0.005 | 0.0001 | 0.007 |
| 60 | 85.9 | 45.7 | 0.005 | 0.0000 | 0.005 |
| 80 | 100.9 | 37.6 | 0.013 | 0.0001 | 0.009 |
| 100 | 117.4 | 31.6 | 0.013 | 0.0001 | 0.007 |
| 120 | 134.8 | 27.1 | 0.016 | 0.0001 | 0.006 |
| 140 | 152.9 | 23.7 | 0.016 | 0.0000 | 0.005 |
| 160 | 171.4 | 21.0 | 0.016 | 0.0000 | 0.004 |
| 180 | 190.2 | 18.9 | 0.079 | 0.0002 | 0.016 |
| 200 | 209.2 | 17.1 | 0.079 | 0.0001 | 0.013 |
| 220 | 228.4 | 15.6 | 0.079 | 0.0001 | 0.011 |
| 240 | 247.8 | 14.4 | 0.079 | 0.0001 | 0.009 |
| 260 | 267.2 | 13.3 | 0.079 | 0.0001 | 0.008 |
| 280 | 286.7 | 12.4 | 0.079 | 0.0001 | 0.007 |
| 300 | 306.2 | 11.6 | 0.079 | 0.0001 | 0.006 |
| 320 | 325.9 | 10.9 | 0.079 | 0.0001 | 0.005 |
| 340 | 345.5 | 10.3 | 0.079 | 0.0000 | 0.005 |
| 360 | 365.2 | 9.7 | 0.398 | 0.0002 | 0.021 |
| 380 | 384.9 | 9.2 | 0.398 | 0.0002 | 0.019 |
| 400 | 404.7 | 8.7 | 0.398 | 0.0002 | 0.017 |
| 420 | 424.5 | 8.3 | 0.398 | 0.0002 | 0.016 |
| 440 | 444.3 | 8.0 | 0.398 | 0.0001 | 0.014 |
| 460 | 464.1 | 7.6 | 0.398 | 0.0001 | 0.013 |
| 480 | 483.9 | 7.3 | 0.398 | 0.0001 | 0.012 |
| 500 | 503.8 | 7.0 | 0.398 | 0.0001 | 0.011 |

**Table 2.** 2.4 GHz Ground level RF power density and percent-of-MPE calculations

| Metricom Cumulative Radiated Power | | |
|---|---|---|
| G dist | $mWcm^2$ | GPMPE% |
| 0 | 0.0008 | 0.129 |
| 20 | 0.0008 | 0.117 |
| 40 | 0.0006 | 0.091 |
| 60 | 0.0006 | 0.102 |
| 80 | 0.0008 | 0.120 |
| 100 | 0.0006 | 0.089 |
| 120 | 0.0005 | 0.085 |
| 140 | 0.0004 | 0.066 |
| 160 | 0.0003 | 0.052 |
| 180 | 0.0005 | 0.065 |
| 200 | 0.0004 | 0.054 |
| 220 | 0.0003 | 0.045 |
| 240 | 0.0003 | 0.039 |
| 260 | 0.0003 | 0.033 |
| 280 | 0.0002 | 0.029 |
| 300 | 0.0002 | 0.025 |
| 320 | 0.0002 | 0.022 |
| 340 | 0.0001 | 0.020 |
| 360 | 0.0003 | 0.035 |
| 380 | 0.0003 | 0.031 |
| 400 | 0.0003 | 0.028 |
| 420 | 0.0004 | 0.026 |
| 440 | 0.0002 | 0.023 |
| 460 | 0.0002 | 0.022 |
| 480 | 0.0001 | 0.020 |
| 500 | 0.0001 | 0.018 |

**Table 3.** Cumulative Ground level RF power density and percent-of-MPE calculations

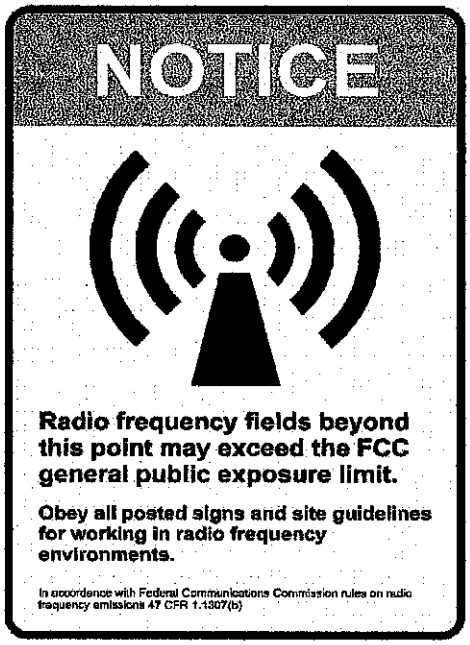
***CONCLUSION***

The calculations presented above demonstrate that the maximum potential exposure level around the tower induced by the Metricom system is 0.0007 $mW/cm^2$, which represents 0.119% of the FCC limit for continuous exposure of the general population.

The most recent power density study submitted to the Connecticut Siting Council (enclosed) reported that the cumulative 'worst case' percentage of the FCC limit for exposure of the general population was 82.41%, for the existing collocators and 0.476% for the proposed collocator (Omnipoint) at this site. Adding the calculated Metricom level of only 0.119% results in a cumulative total of 83.005%. Therefore the total ground level exposure around the tower is still below the FCC limit, even with the inclusion of the Metricom system.

Even with the low levels predicted on the ground, it's recommended that an FCC 'Notice' sign (shown below) be installed on the fence gate as a precautionary safety measure.

**Therefore, the ADDITION of the Metricom Radio system to this facility should not create a significant risk of exposure to RF emissions to the general population. And, according to the calculations, and based on the installation of signage described above, the Metricom wireless facility is in compliance with the FCC regulations concerning the control of potential RF exposure.**




***Example of RF Alert Sign***

***CERTIFICATION***

This report was prepared by Sheldon Leader, Associate Vice President and Director - RF Planning and Engineering. The undersigned has reviewed this report and certifies that the analysis provided herein is consistent with the applicable FCC Rules and Regulations and accepted industry practice.

Sheldon Leader
Associate Vice President

December 1, 2000

Edwards and Kelcey, Inc.

## *REFERENCES*


47 CFR, FCC Rules and Regulations, Section 1.1301 *et seq.*

FCC Second Memorandum Opinion and Order and Notice of Proposed Rulemaking (FCC 97-303), *In the Matter of Procedures for Reviewing Requests for Relief From State and Local Regulations Pursuant to Section 332(c)(7)(B)(v) of the Communications Act of 1934 (WT Docket 97-192), Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation (ET Docket 93-62), and Petition for Rulemaking of the Cellular Telecommunications Industry Association Concerning Amendment of the Commission's Rules to Preempt State and Local Regulation of Commercial Mobile Radio Service Transmitting Facilities*, released August 25, 1997.

FCC First Memorandum Opinion and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released December 24, 1996.

FCC Report and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released August 1, 1996.

FCC Office of Engineering and Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, August 1997.

FCC Office of Engineering and Technology (OET) Bulletin 56, "Questions and Answers About Biological Effects and Potential Hazards of RF Radiation", 1989.

Richard Tell, "CTIA's EME Design and Operation Considerations for Wireless Antenna Sites", November 15, 1996.

**ATTACHMENT A**

***SITE DATA***

27-Nov-00

| | | |
|---|---|---|
| CARRIER | | **Metricom, Inc.** |
| CONTACT PERSON | Person | Julian Pedini - Wireless Facilities, Inc. |
| | Phone | (201) 476-1078 |
| | Fax | (201) 326-3044 |
| | e-mail | julian.pedini@wfinet.com |
| LOCATION | Site Address | 135 New Rd. |
| | Township, State | Madison, CT |
| | Carrier Site Identification Number | NYC0016 |
| | Date Report Required | 12/4/00 |
| | | ISM |
| FREQUENCY | Transmit Frequency Range: Lower | 902 - 928 MHz |
| | Transmit Frequency Range: Upper | 2400 - 2483.5 MHz |
| TOWER | Existing or Proposed | Existing |
| | Monopole or Lattice or Building | Guyed Tower |
| | Height of Tower or Building (feet) | 180' (Metricom @ 69' 10") |
| ANTENNAS | Model | Larsen Antennas (108 426-200) |
| | Gain (dBd)- lower band | 6 dBi |
| | Gain (dBd)- upper band | 15 dBi |
| | Height of Rad. Center (feet) | 69' 10" |
| | Downtilt (degrees) | 0 |
| | Total Number | 16 |
| | Number per Sector | 2 sectors w/ 5 antennas per sector, 1 sector with 6 antennas |
| | No.of Transmit Antennas per sector | 5 or 6 transmit/ receive antennas |
| | No. of channels/antenna | spread spectrum freq. hopping |
| | Max ERP / **antenna**- lower band | 34 dBm |
| | Max ERP / **antenna**- upper band | 40 dBm |
| RF ENGINEER | Name | Daniel Penesso / Stan Moreyno |
| | Phone | (201) 476-0736 / (201) 476-1981 |
| | Fax | (201) 476-1111 / (201) 476-1111 |
| | e-mail | daniel.penesso@wfinet.com / stan.moreyno@wfinet.com |
| COLLOCATORS | Carrier Names | Omnipoint @ 162' 8" |
| | Heights of Carrier Installations (feet) | Sprint @ 125' |
| | | Metricom @ 69' 10" (Proposed) |
| | | Plus others (see drawings) |

Location: 135 New Rd
Madison, CT

Description: The proposed facility is an EMS Wireless three sector PCS array and ancillary equipment. The antennas used by Omnipoint are EMS RR90-17-00DP DualPol™ units.

Analysis: The non-ionizing radiation analysis conducted here is in accordance with FCC OET Bulletin 65, 1997 edition, and demonstrates that the power density due to the proposed antenna array is well below either the more stringent of the FCC or CT standard for public exposure at the base of the transmission tower. At 0.476% of MPE, Omnipoint will not be a significant contributor to the NIR level at this site.

Calculations: The three-sector array is treated as a single spherical radiator (as is customary at PCS frequencies) centered at the lowest radiating part of the antenna. A ground reflection coefficient of 1.6 is used. This is a worst case analysis that insures the actual exposure at the base of the tower is well below the calculated value.

| Proposed Omnipoint Antenna | |
|---|---|
| Top of tower above grade (feet AGL) | 180' |
| Proposed Radiation point above grade (feet AGL) | 160'4" |
| Proposed Antenna tip above grade (feet AGL) | 165' |
| Calculated power density at base of tower, $mW/cm^2$ | 0.00476 |
| Maximum Permissible Exposure (MPE), $mW/cm^2$ | 1 |
| Percentage of MPE of proposed facility at tower base | 0.476% |

| NIR Source | MPE Standard $mW/cm^2$ | Power Density at tower base $mW/cm^2$ | MPE percentage at tower base | Power Density at fenced boundary $mW/cm^2$ | MPE percentage at fenced boundary $mW/cm^2$ |
|---|---|---|---|---|---|
| 952.37 MHz | 0.635 | 0.0022 | 0.35 | ? | ? |
| 37.48 MHz | 0.200 | 0.0013 | 0.67 | ? | ? |
| 37.60 MHz | 0.200 | 0.0016 | 0.82 | ? | ? |
| 48.34 MHz | 0.200 | 0.0013 | 0.67 | ? | ? |
| 44.14 MHz | 0.200 | 0.0011 | 0.55 | ? | ? |
| 48.16 MHz | 0.200 | 0.0013 | 0.67 | ? | ? |
| 6995.00 MHz | 1.000 | 0.0102 | 1.02 | ? | ? |
| 154.46 MHz | 0.200 | 0.0158 | 7.91 | ? | ? |
| 48.00 MHz | 0.200 | 0.0024 | 1.18 | ? | ? |
| 152.48 MHz | 0.200 | 0.0146 | 7.31 | ? | ? |
| 158.70 MHz | 0.200 | 0.0101 | 5.05 | ? | ? |
| 454.05 MHz | 0.303 | 0.0063 | 2.09 | ? | ? |
| 929.4125 MHz<br>929.4975 MHz<br>929.9375 MHz | 0.620 | 0.2503 | 40.37 | ? | ? |
| 48.00 MHz | 0.200 | 0.0213 | 10.66 | ? | ? |
| Sprint | 1.000 | 0.0309 | 3.09 | ? | ? |
| Proposed Omnipoint | 1.000 | 0.00476 | 0.476 | 0.00475 | 0.475 |

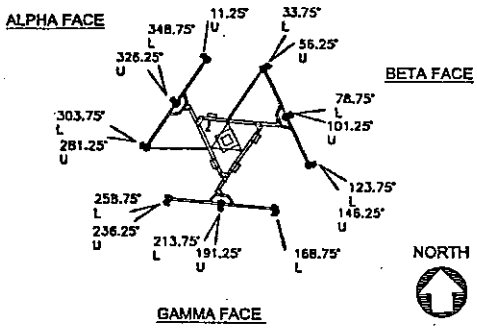
Omnipoint Calculations Prepared By:
RCC Consultants, Inc. 100 Woodbridge Center Drive, Woodbridge NJ 07095
Contact: Michael J. Clarson, Director RF-Engineering 1-732-404-2467

| | | | | | |
|---|---|---|---|---|---|
| Site Totals | | 0.37546 | 82.88 | N/A* | N/A* |

Source of current NIR (Non-Ionizing Radiation) levels: Notice of Intent to make exempt changes to an existing tower facility; Sprint PCS, CL&P Cell Site, Received by the CSC on September 16, 1997.

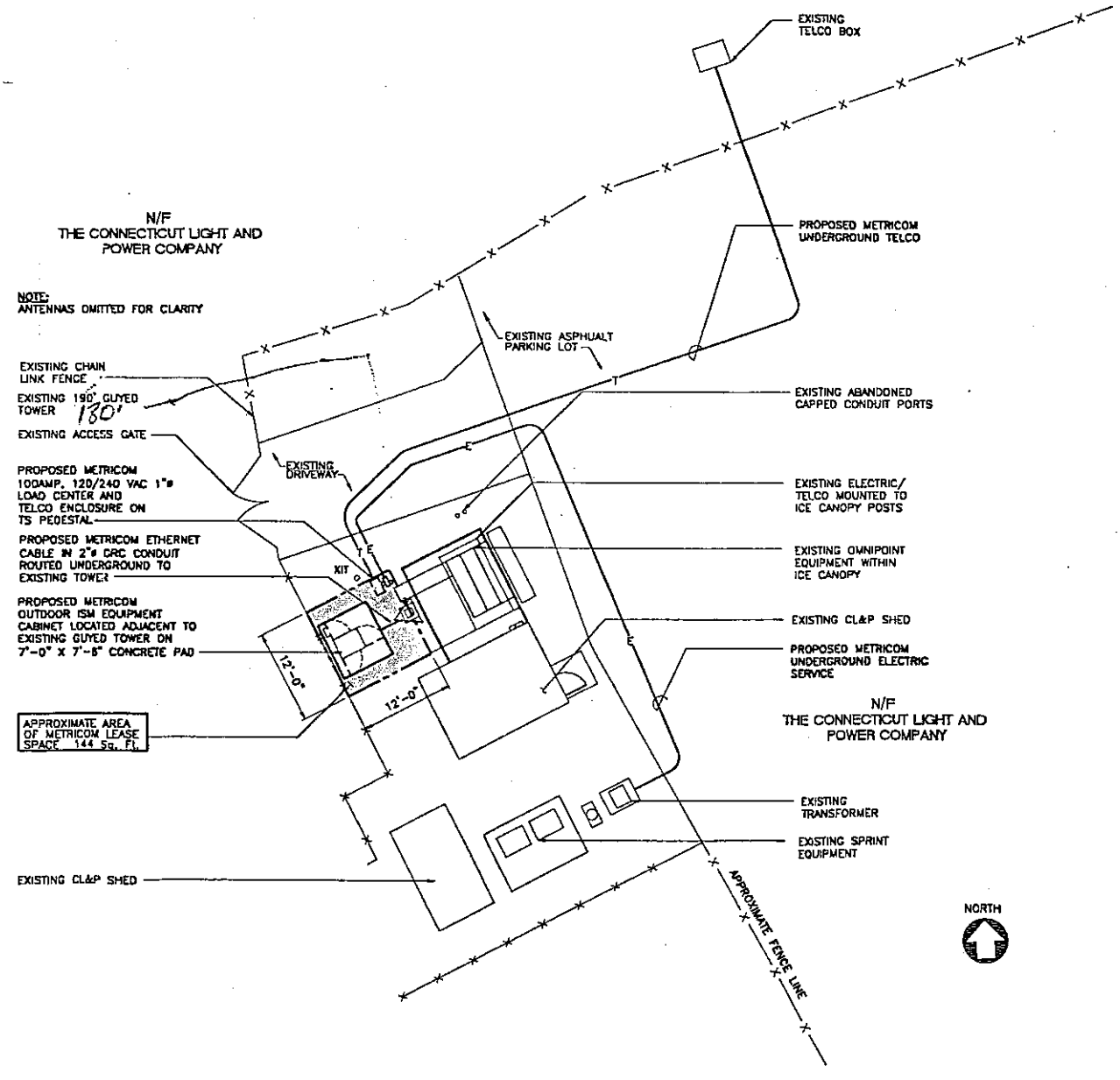
*Power density at the site boundary not given for the existing users, so the total at the boundary was not computed. RCC in their calculations used the spherical (most conservative) EIR model. When using the spherical model, as long as the ground level at the boundary is no higher than the tower base, NIR levels from radiators on the tower at the boundary will always less than at the tower base. Additionally, while the tower is fenced off from access by the general public, it is not restricted from those that have access to the CL&P service center yard. The tower base numbers are those that should be used.

Omnipoint Calculations Prepared By:
RCC Consultants, Inc. 100 Woodbridge Center Drive, Woodbridge NJ 07095
Contact: Michael J. Clarson, Director RF-Engineering 1-732-404-2467




3 SC-2 **ANTENNA LAYOUT**
SCALE: 1"=10'-0"

0 5 10 20




1 SC-2 **PARTIAL SITE PLAN**
SCALE: 1"=10'-0"

0 5 10 20

NOTE:
DO NOT SCALE DRAWINGS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES, PROPERTY LINES AND THE TRUE NORTH ARE TO BE CONFIRMED BY SURVEYOR.

ricochet
Network Operation
218 MIDDLESEX STREET, SU
HARRISON, NJ 07029

PROJECT INFORMATION:
CL&P TOWE
NYC0016-A
135 NEW ROAD
MADISON, CONNECT
NEW HAVEN COUN

CURRENT ISSUE DATE:
11/16/00

ISSUED FOR:
CT. SITING COUN



| REV.: | DATE: | DES |
|---|---|---|
| A | 11/16/00 | CLIENT RE |

PLANS PREPARED BY:
URS
URS CORPORATION A
500 ENTERPRISE DR
ROCKYHILL, CT. 0606
1-(860)-529-8882

CONSTRUCTION MANAGER:
WF
the global leader
IN TELECOM OUTSO

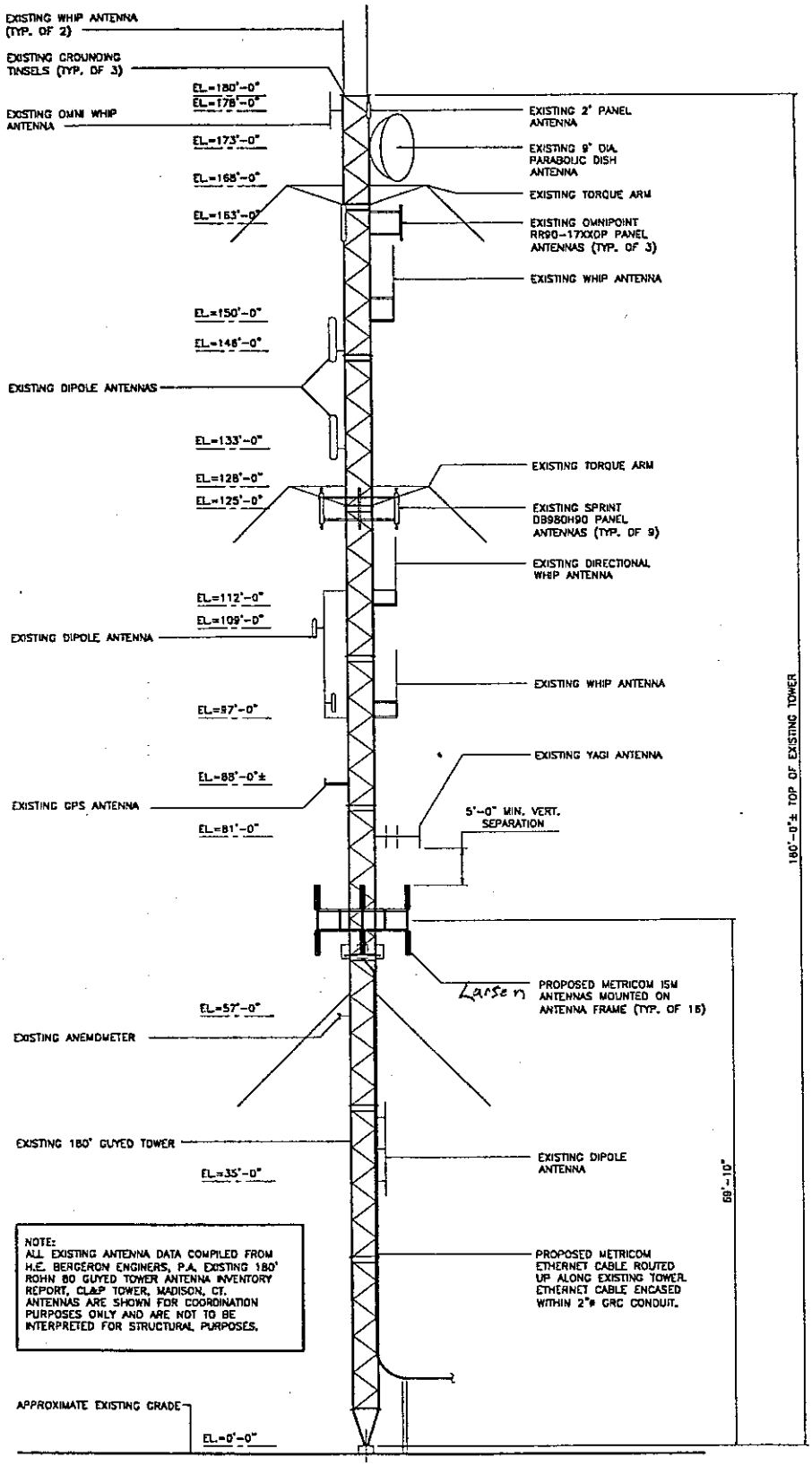
DRAWN BY: JRM CHK.:

LICENSURE:

SHEET TITLE:
PARTIAL SITE P
TOWER ELEVA
AND ANTENNA L

SHEET NUMBER:
SC-2

URS PROJECT NO.
F3-00001941.




2 / SC-2 **TOWER ELEVATION**

SCALE: 1"=10'-0"

N/
THE CONNECTI
POWER

NOTE:
ANTENNAS OMITTED FOR

EXISTING CHAIN LINK FENCE

EXISTING 190' GUYED TOWER 180'

EXISTING ACCESS GATE

PROPOSED METRICOM 100AMP, 120/240 VAC LOAD CENTER AND TELCO ENCLOSURE ON TS PEDESTAL

PROPOSED METRICOM ET CABLE IN 2"ø GRC CON ROUTED UNDERGROUND EXISTING TOWER

PROPOSED METRICOM OUTDOOR ISM EQUIPMENT CABINET LOCATED ADJAC EXISTING GUYED TOWER 7'-0" X 7'-6" CONCRET

APPROXIMATE AREA OF METRICOM LEASE SPACE 144 Sq. Ft.

EXISTING CL&P SHED

# LETTER OF AUTHORIZATION

Re: Site: The Connecticut Light and Power Company
Site Address: 135 New Road
Madison, Connecticut 06443
Terms: Initial Term of five (5) years with two (2) five-year Renewal Terms

To Whom it May Concern:

The Connecticut Light and Power Company ("CL&P"), a Connecticut corporation and Metricom, Inc. ("Metricom"), a Delaware corporation, have reached agreement on the terms set forth above among other terms and conditions for the License of a portion of that certain property located in the Town of Madison, County of New Haven, State of Connecticut.

This letter serves as CL&P's authorization for Metricom, its agents, representatives, successors and assigns, to obtain any zoning, construction, and/or land use entitlements and other permits, including zoning approvals and building permits from state and local government, as required to begin installation of the proposed wireless telecommunications facility on the property. This authorization shall include completing, executing, and/or filing any application, form, map, approval, variance, special permit, site plan or other land use or building permit application required to provide Metricom with lawful access to and use of the Property. In the absence of an executed License agreement with signatures of both parties, no construction on the Site may commence by Metricom, its agents, representatives, successors and assigns unless specifically authorized by CL&P, in writing.

By: _____
(Signature of Property Owner or Authorized Agent(s))

Name: Salvatore Giuliano

Title: Real Estate & Land Planner

State of Connecticut

County of Hartford

Signed and sworn to before me on this 12 day of December, 2000.

Linda M. Carroll
Notary Public
My Commission Expires 9-30-04

K:\...\LMC\License Agreements\Madison, 135 New Road Metricom LOA.doc

**H. E. Bergeron Engineers**
• Civil • Structural • Land Surveying

P.O. Box 440
2605 White Mountain Highway
North Conway, NH 03860
(603) 356-6936
(603) 356-7715 (fax)

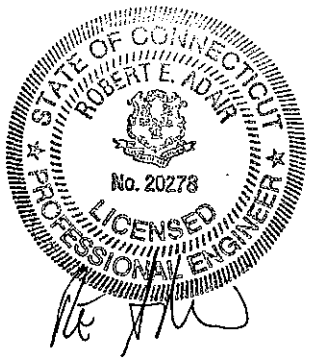
65 W. Commercial Street
Portland, ME 04101
(207) 780-1100
(207) 780-1101 (fax)
www.hebcivil.com

HEB

# STRUCTURAL ANALYSIS REPORT
# OF
# 180' ROHN MODEL 80 GUYED TOWER
# MADISON, CONNECTICUT

Prepared for Wireless Facilities Inc.
Metricom Site # NYC-0016

September 12, 2000




**Prepared by:**

H. E. Bergeron Engineers, P.A.
P.O. Box 440, 2605 White Mountain Highway
North Conway, NH 03860
HEB Project No. 97058B-002

H. E. Bergeron Engineers
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HEB

# STRUCTURAL ANALYSIS REPORT
# of
# NORTHEAST UTILITIES'
# 180' GUYED TOWER
# MADISON, CT
# prepared for Wireless Facilities Inc.
# Metricom Site #NYC-0016

## EXECUTIVE SUMMARY:

H. E. Bergeron Engineers, P.A. (HEB) performed a structural analysis of this 180-foot guyed ROHN 80 tower. The analysis was performed with the addition of a sixteen panel antenna array installed on three 12' gate booms at 80-feet. Each antenna is to be fed by Ethernet cabling installed in one 2" conduit.

Our analysis indicates the tower is capable of supporting the proposed antennas.

## INTRODUCTION & PURPOSE:

Structural analysis of this 180-foot communications tower was performed by H. E. Bergeron Engineers, P.A. (HEB) for Wireless Facilities Inc. The tower is located off New Road in Madison, Connecticut. The tower was previously climbed and inspected by Robert E. Adair, P.E. and Albert L. Hall, E.I.T. on May 12, 1997, and compared dimensionally with assembly drawings provided to HEB.

The structure is a 180-foot, three-legged, Model 80 guyed tower manufactured by UNR-ROHN. It currently supports multiple whip, dipole, yagi, and panel antennas, a GPS antenna, and one microwave dish antenna. According to information supplied by Wireless Facilities, Inc. (WFI), sixteen Larsen Model #108426-200 antennas, fed by Ethernet cabling in a single 2" diameter conduit, are proposed to be mounted on three 12' gate booms at the 80-foot elevation on the tower.

## STRUCTURAL ANALYSIS:

### Methodology:

The structural analysis was done in accordance with TIA/EIA-222-F (EIA), Structural Standards for Steel Antenna Towers and Antenna Supporting

HEB

Structures; the American Institute of Steel Construction (AISC), Manual of Steel Construction, Allowable Stress Design, Ninth Edition; and Northeast Utilities' (NU) General Guidelines for Communications Antennas Proposed on Telecommunications Towers.

The analysis was conducted by applying a wind load of 85 miles per hour. The TIA/EIA Standard requires a minimum of 85-mph wind load for New Haven County, Connecticut.

A combination of two analytical methods were used to evaluate the structure: a two-dimensional model using spreadsheet programs developed by HEB, and a three-dimensional analysis using CSTRAAD finite element software distributed by ECOM Associates. The HEB 2-D model was used to generate dead loads of the tower and all of its appurtenances, and the resultant wind loading.

Loads generated in the 2-D model were input into the CSTRAAD program to calculate movement of the structure under load and to evaluate maximum axial loads and bending moments. The maximum bending moments and axial loads were used to calculate stresses on tower leg members and on the tower mast as a unit, which were compared to allowable stresses according to AISC and TIA/EIA. Calculated twist (rotation) and sway (deflection) values were compared to maximum allowable values of 0.5 degrees specified by NU. The analysis of this structure is conservative in that a P-Delta analysis (load induced with deflection) was performed, which is not required by EIA for guyed towers.

The TIA/EIA standard permits a one-third increase in allowable stresses for towers less than 700-feet tall. Allowable stresses of tower members were increased by one-third in computing the load capacity values indicated herein.

**ANALYSIS RESULTS:**

Our analysis determined the tower will support the proposed antennae. Our analysis used yield strengths of 50 ksi for leg members, 36 ksi for angle bracing and plate members, and 33 ksi for tube steel bracing. Splice and bracing bolts are ASTM A325 bolts. Supporting calculations are provided in Appendix B.

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**Leg Members:**

The leg members are comprised of 2½" standard steel pipe. Leg members were calculated to be adequately sized to support maximum compressive stresses induced by the proposed loading.

**Bracing Members:**

Diagonal bracing consists of 1½" O.D., 16 gauge tubing. Two sections on the tower, from 120' to 140' and 160' to 180', are X-braced. X-bracing consists of 1½" x 1½" x 3/16" angle steel. Bracing members were found to be adequately sized to support calculated compressive stresses.

**Bracing Bolts:**

Bracing bolts, which are ½" diameter A325 bolts, have a capacity of 5.49 kips (bearing-type connection with threads included in shear plane; standard round holes; 1/3 increase in allowable stresses per EIA). All bolts were calculated to be adequately sized for the proposed loads on the tower.

**Guy Cables:**

Guy sizes were obtained from ROHN as-built drawing number C-760842. The guy cables extending from the top torque arm at 168' are 1/2" diameter EHS cable. The guy cables extending from the bottom torque arm at 128' and from the 60' elevation are 9/16" diameter EHS cable. HEB calculated the maximum guy tension under the proposed loading to be 4.74 kips for the 1/2" guy cables. The published breaking strength of 1/2" EHS cable is 26.9 kips. The maximum guy tension for the 9/16" guy cables was calculated to be 10.65 kips. The published breaking strength of 9/16" EHS cable is 35 kips. TIA/EIA-222-F Paragraph 8.2.1 requires that the safety factor of guys and their connections shall not be less than 2.0 for structures under 700' in height. All guy cables meet the required safety factor under the proposed loading.

**Sway:**

Sway was calculated at the approximate elevation of NU's 8-foot microwave dish at the 173-foot elevation. Sway under wind load was calculated to be approximately 0.08 degrees, within Northeast Utilities' requirements of 0.5 degrees of maximum allowable sway.

HEB

**Twist:**

HEB calculates twist and sway by using AutoCAD drawing software to graphically plot CSTRAAD nodal displacements at the noted elevation. The displaced structure is compared to the undeformed shape to measure horizontal and angular movement. Two wind directions were evaluated to determine the worst case conditions: first with wind blowing perpendicular to one tower face, and second with wind blowing parallel to one tower face.

Maximum twist (rotation) was calculated under proposed conditions with ice at the 8-foot microwave dish at the 173-foot elevation. Twist was calculated to be approximately 0.15 degrees with WFI's proposed antennas, within Northeast Utilities' requirements of 0.5 degrees of allowable twist.

Illustrations of calculated twist and sway are presented in Figure 1.

**Base Foundation and Guy Anchors:**

HEB's calculated reactions for the tower base and guy anchors were compared to design values provided on ROHN drawing C-760842. Reactions imposed by wind load were found to be higher than design values as presented below:

| | HEB | ROHN Design |
|---|---|---|
| Compression at Base | 52.8k | 75.0k |
| Horizontal Guy Anchor | 22.3k | 35.2k |
| Vertical Guy Anchor | 20.9k | 30.0k |

The guy anchors and base foundation are capable of supporting the proposed loads, provided they were properly constructed according to ROHN's design drawings and specifications.

## CONCLUSIONS AND SUGGESTIONS:

As detailed above, our analysis indicates that the existing 180'guyed tower in Madison, Connecticut is capable of supporting the additional loading proposed by Wireless Facilities, Inc.

Tower twist and sway under the proposed loading meets NU's 0.5 degree criteria.

HEB

**LIMITATIONS:**

This report is based on the following:

1. Tower is properly installed and maintained.
2. All members are in new condition.
3. All required members are in place.
4. All bolts are in place and are properly tightened.
5. Weep holes on tube and pipe members are open.
6. Tower is in plumb condition.
7. All members are galvanized.
8. All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.

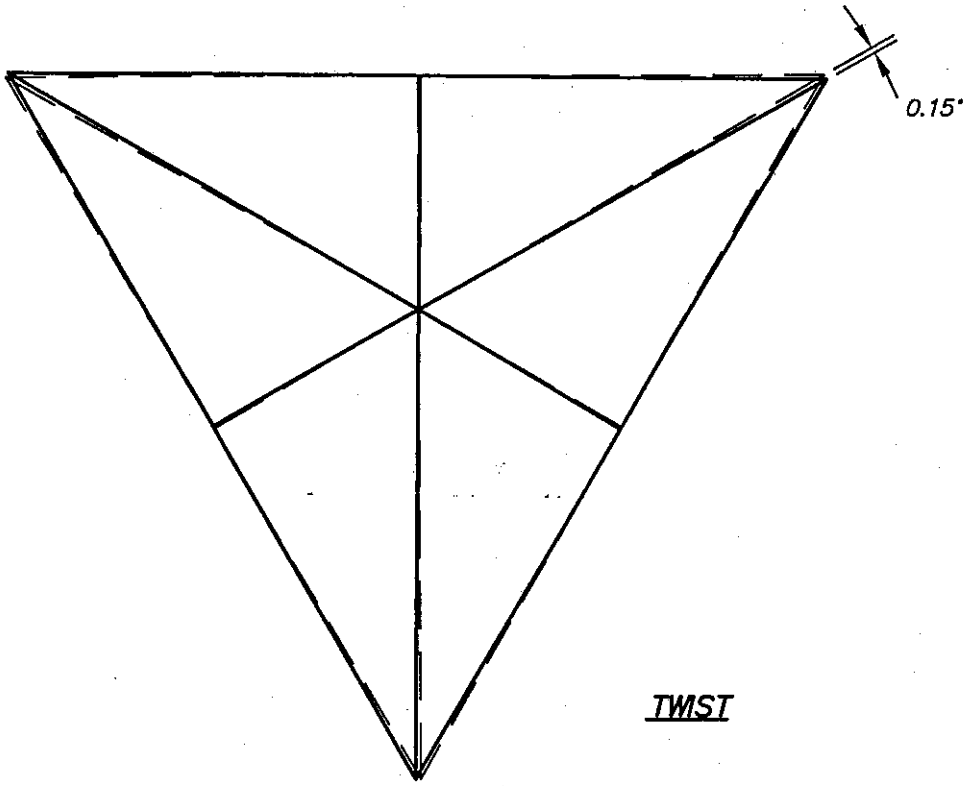
H. E Bergeron Engineers, P.A. (HEB) is not responsible for any modifications completed prior to or hereafter which HEB is not or was not directly involved. Modifications include but are not limited to:

1. Replacing or strengthening bracing members.
2. Reinforcing vertical members in any manner.
3. Adding or relocating stabilizers.
4. Installing antenna mounting gates or side arms.
5. Extending tower.

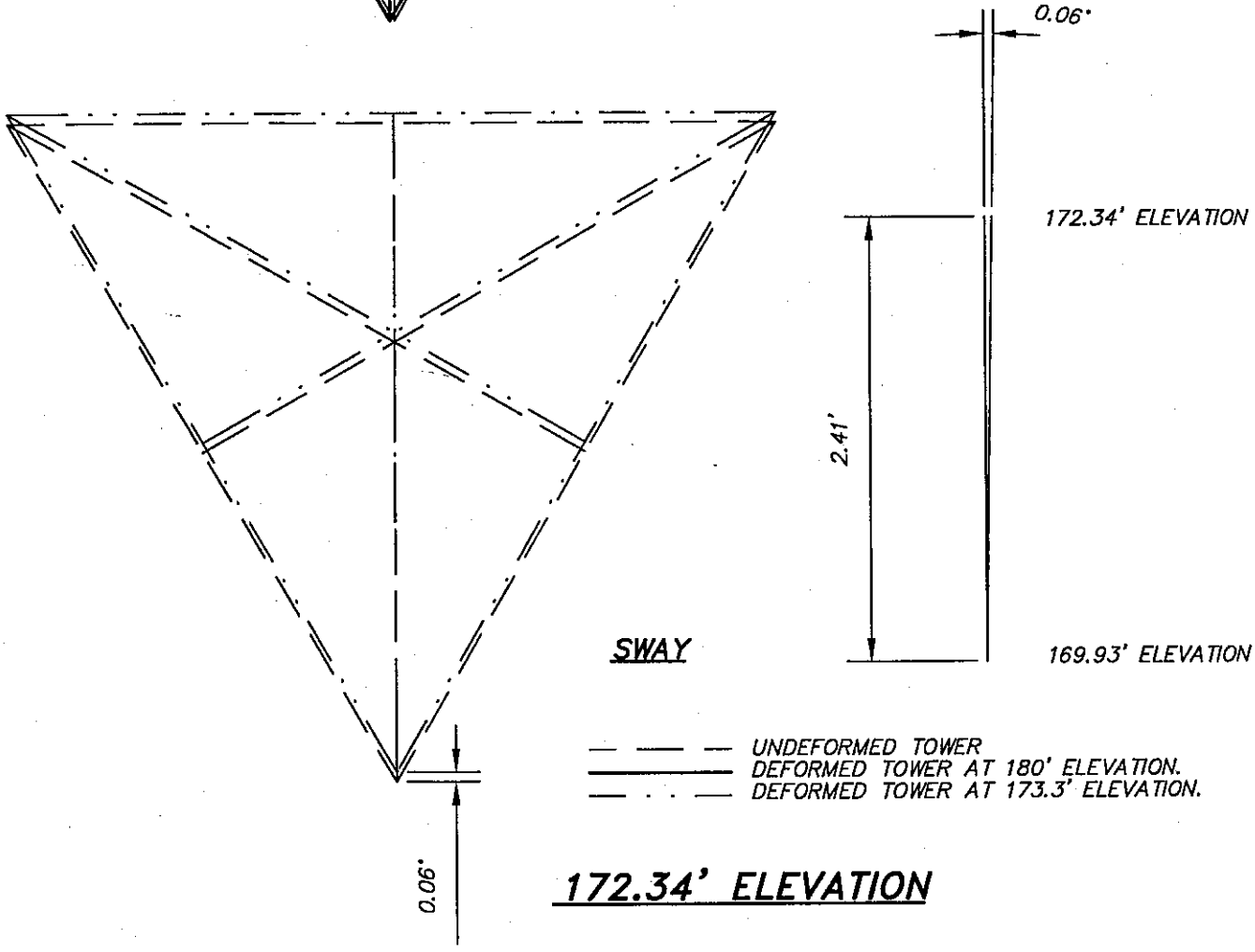
HEB states that this document represents the entire report and assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact HEB. HEB disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

# *Appendix A*

*Drawings*




TWIST




SWAY

— — — UNDEFORMED TOWER
——— DEFORMED TOWER AT 180' ELEVATION.
— . . — DEFORMED TOWER AT 173.3' ELEVATION.

## 172.34' ELEVATION

Plotted: 9/1/00, 4:59

| | | | |
|---|---|---|---|
| HEB | H.E. BERGERON ENGINEERS, P.A. NORTH CONWAY, N.H. (603) 356-6936 | TWIST & SWAY EVALUATION MADISON, CONNECTICUT prepared for WIRELESS FACILITIES, INC. | FIGURE 1 DRWN: REA SCALE: N.T.S. DATE: 1 SEP 00 PROJ #: 97058B |

# *Appendix B*

*Calculations*

| | |
|---|---|
| Client: | WFI |
| Project: | Madison, CT |
| Prepared By: | R. Adair |
| Checked By: | |
| Prepared: | 1-Aug-00 |

## Tower Area Summary

Wind Speed = 85 mph

Helght of the Tower = 180 ft

| Section | Item | Qty | Length (ft.) | Single Tower Face: Width (in.) | Single Tower Face: Area (s.f.) w/o Ice | Single Tower Face: Area (s.f.) w/ 1/2" Ice | Wt. (lbs.) Tower | Wt. (lbs.) Ice | Other Info |
|---|---|---|---|---|---|---|---|---|---|
| 10 | Legs | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ag= 1 s.f. |
| 10 | Diag. Brace | | | | 0.0 | 0.0 | 0.0 | 0.0 | Aa= s.f. |
| 10 | Horiz. Brace | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ai= s.f. |
| 10 | Int. Horiz. | | | | 0.0 | 0.0 | 0.0 | 0.0 | z= ft. |
| 10 | Int. Horiz. | | | | 0.0 | 0.0 | 0.0 | 0.0 | Wa= 0 lbs. |
| | | | Flat | | 0.0 | 0.0 | | | Wi= 0 lbs. |
| | | | Round | | 0.0 | 0.0 | 0.0 | 0.0 | |
| 9 | Legs | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ag= 1 s.f. |
| 9 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Aa= s.f. |
| 9 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ai= s.f. |
| 9 | Horiz. Brace | | | | 0.0 | 0.0 | 0.0 | 0.0 | z= ft. |
| 9 | Diag. Brace | | | | 0.0 | 0.0 | 0.0 | 0.0 | Wa= 0 lbs. |
| | | | Flat | | 0.0 | 0.0 | | | Wi= 0 lbs. |
| | | | Round | | 0.0 | 0.0 | 0.0 | 0.0 | |
| 8 | Legs | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ag= 1 s.f. |
| 8 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Aa= s.f. |
| 8 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ai= s.f. |
| 8 | Horiz. Brace | | | | 0.0 | 0.0 | 0.0 | 0.0 | z= ft. |
| 8 | Diag. Brace | | | | 0.0 | 0.0 | 0.0 | 0.0 | Wa= 0 lbs. |
| | | | Flat | | 0.0 | 0.0 | | | Wi= 0 lbs. |
| | | | Round | | 0.0 | 0.0 | 0.0 | 0.0 | |
| 7 | Legs | 2 | 12 | 2.875 | 5.8 | 7.8 | 208.4 | 74.2 | Ag= 41.04 s.f. |
| 7 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Aa= 9.667 s.f. |
| 7 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ai= 16.81 s.f. |
| 7 | X-L1.5x1.5x3\16 | 10 | 3.36 | 1.5 | 4.2 | 7.0 | 180.3 | 156.7 | z= 174 ft. |
| 7 | H-L1.5x1.5x3\16 | 2 | 3.42 | 1.5 | 0.9 | 1.4 | 36.7 | 31.9 | Wa= 68 lbs. |
| 7 | | | | | | | | | Wi= 118 lbs. |
| | | | Flat (168 to 180 ft.) | | 5.1 | 8.4 | | | |
| | | | Round (168 to 180 ft.) | | 5.8 | 7.8 | 425.5 | 262.8 | |
| 6 | Legs | 2 | 8 | 2.875 | 3.8 | 5.2 | 139.0 | 49.5 | Ag= 27.36 s.f. |
| 6 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Aa= 7.82 s.f. |
| 6 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ai= 13.95 s.f. |
| 6 | X-L1.5x1.5x3\16 | 6 | 3.36 | 1.5 | 2.5 | 4.2 | 108.2 | 94.0 | z= 164 ft. |
| 6 | H-L1.5x1.5x3\16 | 2 | 3.42 | 1.5 | 0.9 | 1.4 | 36.7 | 31.9 | Wa= 55 lbs. |
| 6 | | | | | | | 62.9 | 15.9 | Wi= 98 lbs. |
| | | | Flat (160 to 168 ft.) | | 3.4 | 5.6 | | | |
| | | | Round (160 to 168 ft.) | | 3.8 | 5.2 | 346.8 | 191.3 | |

| | |
|---|---|
| Client: | WFI |
| Project: | Madison, CT |
| Prepared By: | R. Adair |
| Checked By: | |
| Prepared: | 1-Aug-00 |

## Tower Area Summary

**Wind Speed =** 85 mph
**Height of the Tower =** 180 ft

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5 | Legs | 2 | 20 | 2.875 | 9.6 | 12.9 | 347.4 | 123.6 | Ag= 68.4 | s.f. |
| 5 | Diag. Brace | 8 | 4.17 | 1.5 | 4.2 | 6.9 | 99.6 | 122.1 | Aa= 22.6 | s.f. |
| 5 | Horiz. Brace | 2 | 3.42 | 1.5 | 0.9 | 1.4 | 20.4 | 25.0 | Ai= 41.01 | s.f. |
| 5 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | z= 150 | ft. |
| 5 | | | | | | | | | Wa= 158 | lbs. |
| 5 | | | | | | | | | Wi= 287 | lbs. |
| | | | **Flat (140 to 160 ft.)** | | **0.0** | **0.0** | | | | |
| | | | **Round (140 to 160 ft.)** | | **14.6** | **21.3** | **467.4** | **270.8** | | |
| 4 | Legs | 2 | 12 | 2.875 | 5.8 | 7.8 | 208.4 | 74.2 | Ag= 41.04 | s.f. |
| 4 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Aa= 13.63 | s.f. |
| 4 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ai= 24.73 | s.f. |
| 4 | X-L1.5x1.5x3\16 | 10 | 3.36 | 1.5 | 4.2 | 7.0 | 180.3 | 156.7 | z= 134 | ft. |
| 4 | H-L1.5x1.5x3\16 | 2 | 3.42 | 1.5 | 0.9 | 1.4 | 36.7 | 31.9 | Wa= 95 | lbs. |
| 4 | | | | | | | | | Wi= 173 | lbs. |
| | | | **Flat (128 to 140 ft.)** | | **5.1** | **8.4** | | | | |
| | | | **Round (128 to 140 ft.)** | | **5.8** | **7.8** | **425.5** | **262.8** | | |
| 3 | Legs | 2 | 8 | 2.875 | 3.8 | 5.2 | 139.0 | 49.5 | Ag= 27.36 | s.f. |
| 3 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Aa= 9.14 | s.f. |
| 3 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Ai= 16.59 | s.f. |
| 3 | X-L1.5x1.5x3\16 | 6 | 3.36 | 1.5 | 2.5 | 4.2 | 108.2 | 94.0 | z= 124 | ft. |
| 3 | H-L1.5x1.5x3\16 | 2 | 3.42 | 1.5 | 0.9 | 1.4 | 36.7 | 31.9 | Wa= 64 | lbs. |
| 3 | | | | | | | | | Wi= 116 | lbs. |
| | | | **Flat (120 to 128 ft.)** | | **3.4** | **5.6** | | | | |
| | | | **Round (120 to 128 ft.)** | | **3.8** | **5.2** | **283.9** | **175.4** | | |
| 2 | Legs | 2 | 60 | 2.875 | 28.8 | 38.8 | 1042.2 | 370.9 | Ag= 205 | s.f. |
| 2 | Diag. Brace | 24 | 4.17 | 1.5 | 12.5 | 20.8 | 298.9 | 366.3 | Aa= 68.47 | s.f. |
| 2 | Horiz. Brace | 6 | 3.42 | 1.5 | 2.6 | 4.3 | 61.3 | 75.1 | Ai= 124.3 | s.f. |
| 2 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | z= 90 | ft. |
| 2 | | | | | | | | | Wa= 479 | lbs. |
| 2 | | | | | | | | | Wi= 870 | lbs. |
| | | | **Flat (60 to 120 ft.)** | | **0.0** | **0.0** | | | | |
| | | | **Round (60 to 120 ft.)** | | **43.8** | **63.9** | **1402.3** | **812.3** | | |
| 1 | Legs | 2 | 60 | 2.875 | 28.8 | 38.8 | 1042.2 | 370.9 | Ag= 205 | s.f. |
| 1 | Diag. Brace | 24 | 4.17 | 1.5 | 12.5 | 20.8 | 298.9 | 366.3 | Aa= 68.47 | s.f. |
| 1 | Horiz. Brace | 6 | 3.42 | 1.5 | 2.6 | 4.3 | 61.3 | 75.1 | Ai= 124.3 | s.f. |
| 1 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | z= 30 | ft. |
| 1 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Wa= 479 | lbs. |
| 1 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | Wi= 870 | lbs. |
| | | | **Flat (0 to 60 ft.)** | | **0.0** | **0.0** | | | | |
| | | | **Round (0 to 60 ft.)** | | **43.8** | **63.9** | **1402.3** | **812.3** | | |
| | | | | **TOTALS:** | | | **4753.7** | **2787.8** | | |

| | |
|---|---|
| **Client:** | **WFI** |
| **Project:** | **Madison, CT** |
| **Prepared By:** | **R. Adair** |
| **Checked By:** | |
| **Prepared:** | **1-Aug-00** |

Kz = Exposure coefficient = $(z/33)^{2/7}$; 1.00<=Kz<=2.58

Qz = Velocity pressure = .00256*Kz*$V^2$

Gh = Gust response factor = .65+.60/$(h/33)^{1/7}$; 1.00<=Gh<=1.25

e = Solidarity Ratio = (Af+Ar)/Ag

Cf = Structure force coefficient = 3.4$e^2$-4.7e+3.4 (triangular towers)

Rr = Reduction factor = .51$e^2$+.57<=1.0

Df and Dr = Wind Direction factors from TIA Table 2

Aa and Ai = Areas of linear apputenances, without and with ice

Ae = Effective area = Df*Af+Dr*Ar*Rr

Wind Load = Qz*Gh*(Cf*Ae+Ca*Aa)

## Wind Load Summary

Wind Velocity = 85 mph

Height of Tower = 180 feet

## Wind Load Without Ice

| Section | Midpoint Height | Areas | | | | | Factors | | | | Kz | Qz | Gh | e | Cf | Wind Load | Section Length | Uniform Load | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Gross | Flat | Round | Ae | Aa | Df | Dr | Ca | Rr | | | | | | | | | |
| 10 | 0 | 1.0 | 0.0 | 0.0 | 0.0 | 0 | 1 | 1 | 1.2 | 0.57 | 1.00 | 18.50 | 1.12 | 0.00 | 3.40 | **0 lbs.** | - | ####### lbs/ft. | |
| 9 | 0 | 1.0 | 0.0 | 0.0 | 0.0 | 0 | 1 | 1 | 1.2 | 0.57 | 1.00 | 18.50 | 1.12 | 0.00 | 3.40 | **0 lbs.** | - | ####### lbs/ft. | |
| 8 | 0 | 1.0 | 0.0 | 0.0 | 0.0 | 0 | 1 | 1 | 1.2 | 0.57 | 1.00 | 18.50 | 1.12 | 0.00 | 3.40 | **0 lbs.** | - | ####### lbs/ft. | |
| 7 | 174 | 41.0 | 5.1 | 5.8 | 8.5 | 9.667 | 1 | 1 | 1.2 | 0.61 | 1.61 | 29.74 | 1.12 | 0.26 | 2.40 | **1069 lbs.** | 12 | **89** lbs/ft. | 45 |
| 6 | 164 | 27.4 | 3.4 | 3.8 | 5.7 | 7.82 | 1 | 1 | 1.2 | 0.61 | 1.58 | 29.24 | 1.12 | 0.26 | 2.40 | **755 lbs.** | 8 | **94** lbs/ft. | 47 |
| 5 | 150 | 68.4 | 0.0 | 14.6 | 8.7 | 22.6 | 1 | 1 | 1.2 | 0.59 | 1.54 | 28.51 | 1.12 | 0.21 | 2.55 | **1573 lbs.** | 20 | **79** lbs/ft. | 39 |
| 4 | 134 | 41.0 | 5.1 | 5.8 | 8.5 | 13.63 | 1 | 1 | 1.2 | 0.61 | 1.49 | 27.60 | 1.12 | 0.26 | 2.40 | **1139 lbs.** | 12 | **95** lbs/ft. | 47 |
| 3 | 124 | 27.4 | 3.4 | 3.8 | 5.7 | 9.14 | 1 | 1 | 1.2 | 0.61 | 1.46 | 27.00 | 1.12 | 0.26 | 2.40 | **745 lbs.** | 8 | **93** lbs/ft. | 47 |
| 2 | 90 | 205.0 | 0.0 | 43.8 | 26.0 | 68.47 | 1 | 1 | 1.2 | 0.59 | 1.33 | 24.64 | 1.12 | 0.21 | 2.55 | **4100 lbs.** | 60 | **68** lbs/ft. | 34 |
| 1 | 30 | 205.0 | 0.0 | 43.8 | 26.0 | 68.47 | 1 | 1 | 1.2 | 0.59 | 1.00 | 18.50 | 1.12 | 0.21 | 2.55 | **3078 lbs.** | 60 | **51** lbs/ft. | 26 |
| | | | | | | | | | | | | | | | | | 180 | | |

## Wind Load With Ice

| Section | Midpoint Height | Areas | | | | | Factors | | | | Kz | Qz | Gh | e | Cf | Wind Load | Section Length | Uniform Load |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Gross | Flat | Round | Ae | Ai | Df | Dr | Ca | Rr | | | | | | | | |
| 10 | 0 | 1.0 | 0.0 | 0.0 | 0.0 | 0 | 1 | 1 | 1.2 | 0.57 | 1.00 | 18.50 | 1.12 | 0.00 | 3.40 | **0 lbs.** | - | ####### lbs/ft. |
| 9 | 0 | 1.0 | 0.0 | 0.0 | 0.0 | 0 | 1 | 1 | 1.2 | 0.57 | 1.00 | 18.50 | 1.12 | 0.00 | 3.40 | **0 lbs.** | - | ####### lbs/ft. |
| 8 | 0 | 1.0 | 0.0 | 0.0 | 0.0 | 0 | 1 | 1 | 1.2 | 0.57 | 1.00 | 18.50 | 1.12 | 0.00 | 3.40 | **0 lbs.** | - | ####### lbs/ft. |
| 7 | 174 | 41.0 | 8.4 | 7.8 | 13.5 | 16.81 | 1 | 1 | 1.2 | 0.65 | 1.61 | 29.74 | 1.12 | 0.39 | 2.08 | **1604 lbs.** | 12 | **134** lbs/ft. |
| 6 | 164 | 27.4 | 5.6 | 5.2 | 9.0 | 13.95 | 1 | 1 | 1.2 | 0.65 | 1.58 | 29.24 | 1.12 | 0.39 | 2.08 | **1159 lbs.** | 8 | **145** lbs/ft. |
| 5 | 150 | 68.4 | 0.0 | 21.3 | 13.2 | 41.01 | 1 | 1 | 1.2 | 0.62 | 1.54 | 28.51 | 1.12 | 0.31 | 2.27 | **2527 lbs.** | 20 | **126** lbs/ft. |
| 4 | 134 | 41.0 | 8.4 | 7.8 | 13.5 | 24.73 | 1 | 1 | 1.2 | 0.65 | 1.49 | 27.60 | 1.12 | 0.39 | 2.08 | **1782 lbs.** | 12 | **149** lbs/ft. |
| 3 | 124 | 27.4 | 5.6 | 5.2 | 9.0 | 16.59 | 1 | 1 | 1.2 | 0.65 | 1.46 | 27.00 | 1.12 | 0.39 | 2.08 | **1166 lbs.** | 8 | **146** lbs/ft. |
| 2 | 90 | 205.0 | 0.0 | 63.9 | 39.6 | 124.3 | 1 | 1 | 1.2 | 0.62 | 1.33 | 24.64 | 1.12 | 0.31 | 2.27 | **6594 lbs.** | 60 | **110** lbs/ft. |
| 1 | 30 | 205.0 | 0.0 | 63.9 | 39.6 | 124.3 | 1 | 1 | 1.2 | 0.62 | 1.00 | 18.50 | 1.12 | 0.31 | 2.27 | **4950 lbs.** | 60 | **83** lbs/ft. |

| | |
|---|---|
| **Client:** | **WFI** |
| **Project:** | **Madison, CT** |
| **Prepared By:** | **R. Adair** |
| **Checked By:** | |
| **Prepared:** | **1-Aug-00** |

**Antennae Summary**

Calculations based on EIA/TIA-222-F, using the following formulas:
Force on discrete appurtenance: F=Qz*Gh*Ca*A
Force on microwave antennae: F=Cr*A*Gh*Kz*V^2, where Cr=((Ca^2)+(Cs^2))^(1/2)
Gh=.65+.60/(h/33)^(1/7) = Gh= 1.12
V as specified EIA-222-F

**Input:**
Wind Veloci 85 mph
Tower Hgt= 180 ft.

| Type | Elev. (z) | Coeff. (C) | Kz | Qz | Area (no ice) | Area (ice) | Force (no ice) | Force (ice) | Weight |
|---|---|---|---|---|---|---|---|---|---|
| (3) Tinsels | 180 | 1.2 | 1.62 | 30.03 | 2.0 | 4.0 | 81 | 163 | 30 |
| Whip | 180 | 1.2 | 1.62 | 30.03 | 2.5 | 3.5 | 101 | 141 | 75 |
| Whip | 180 | 1.2 | 1.62 | 30.03 | 1.3 | 2.6 | 50 | 104 | 50 |
| Whip,Omni | 178 | 1.2 | 1.62 | 29.94 | 3.2 | 7.4 | 130 | 298 | 100 |
| Torque Arm | 168 | 1.2 | 1.59 | 29.45 | 30.0 | 42.3 | 1188 | 1673 | 900 |
| Whip | 150 | 1.2 | 1.54 | 28.51 | 10.5 | 16.3 | 401 | 625 | 200 |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| Dipole | 133 | 1.2 | 1.49 | 27.54 | 0.8 | 3.0 | 28 | 111 | 50 |
| Torque Arm | 128 | 1.2 | 1.47 | 27.24 | 30.0 | 42.3 | 1099 | 1548 | 900 |
| Whip w/shield | 112 | 1.2 | 1.42 | 26.22 | 8.8 | 26.3 | 309 | 926 | 150 |
| Dipole | 109 | 1.2 | 1.41 | 26.02 | 5.6 | 10.5 | 195 | 369 | 75 |
| Yagi | 81 | 1.2 | 1.29 | 23.91 | 2.4 | 5.6 | 78 | 180 | 75 |
| Anemometer/Vane | 57 | 1.2 | 1.17 | 21.62 | 0.3 | 0.4 | 8 | 12 | 25 |
| Dipole | 35 | 1.2 | 1.02 | 18.81 | 0.8 | 3.0 | 19 | 76 | 50 |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| Whip | 97 | 1.2 | 1.36 | 25.17 | 3.0 | 4.5 | 102 | 152 | 100 |
| 2' Panel | 178 | 1.4 | 1.62 | 29.94 | 2.3 | 2.9 | 110 | 137 | 75 |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| (2) RR90-17XXDP Panels | 163 | 1.2 | 1.58 | 29.19 | 6.2 | 7.1 | 244 | 280 | 100 |
| (1) RR90-17XXDP Panels | 163 | 1.2 | 1.58 | 29.19 | 6.1 | 7.6 | 240 | 297 | 150 |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| (Sprint) | | | 1.00 | 18.50 | | | 0 | 0 | |
| (9) DB980 Panels | 125 | 1.2 | 1.46 | 27.06 | 37.4 | 44.8 | 1363 | 1632 | 660 |
| GPS Antennae | 50 | 1.2 | 1.13 | 20.83 | 1.4 | 2.0 | 40 | 55 | 75 |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |
| | | | 1.00 | 18.50 | | | 0 | 0 | |

| DISHES | Elev. | Cr | Kz | Qz | A | Ai | F | Fi | Wat | Orient | Ca | Cs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9' Dish | 173 | 0.00221 | 1.61 | 29.69 | 63.6 | 66.0 | 1828 | 1896 | 1000 | 0 | 0.00221 | 0.00000 |
| | | | 1.00 | 18.50 | | | 0 | 0 | | | | |
| | | | 1.00 | 18.50 | | | 0 | 0 | | | | |
| | | | 1.00 | 18.50 | | | 0 | 0 | | | | |
| | | | 1.00 | 18.50 | | | 0 | 0 | | | | |
| | | | 1.00 | 18.50 | | | 0 | 0 | | | | |
| | | | 1.00 | 18.50 | | | 0 | 0 | | | | |
| | | | | | | | | | 4840 | | | |
| **Proposed Antennae** | | | | | | | | | | | | |
| (6) Larsen 108426-200 | 80 | 1.4 | 1.29 | 23.82 | 21.1 | 26.6 | 788 | 994 | 376 | 626 | | |
| 2 sectors of: | | | 1.00 | 18.50 | | | 0 | 0 | | | | |
| (5) Larsen 108426-200 | 80 | 1.4 | 1.29 | 23.82 | 19.0 | 24.2 | 710 | 904 | 355 | 605 | | |

| | |
|---|---|
| Client: | WFI |
| Project: | Madison, CT |
| Prepared By: | R. Adair |
| Checked By: | |
| Prepared: | 1-Aug-00 |

## Calculation of Guy Forces due to Wind

Ref: TIA/EIA-222-F, Figure 2

$F_D = qz\ G_H C_D d L_C$ = Total Drag Force (lb)

$F_L = qz\ G_H C_L d L_C$ = Total Lift Force (lb)

qz = Velocity pressure at mid-height of guy ($lb/ft^2$)

$G_H$ = Gust response factor based on total height of structure

d = Diameter of guy strand (in)

$L_C$ = Chord length of guy (ft)

$L_A$ = Horizontal length from tower to guy anchor

$\theta$ = Clockwise angle from guy chord to wind direction vector ($\theta <= 180^\circ$)(in Radians)

$C_D = 1.2 \sin^3 \theta$

$C_L = 1.2 \sin^2 \theta \cos \theta$

| H | $L_A$ | $\theta$ | qz | $G_H$ | $C_D$ | $C_L$ | d | # Guys | $L_C$ | $F_D$ | $F_L$ | $F_D$ w/ice | $F_L$ w/ice |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | 140 | 0.40 | 18.5 | 1.12 | 0.0734 | 0.1712 | 9/16 | 1 | 152.3 | 16.3 | 23.9 | 45.2 | 66.4 |
| 128 | 140 | 0.74 | 22.3 | 1.12 | 0.3687 | 0.4032 | 9/16 | 2 | 189.7 | 246.4 | 220.2 | 684.4 | 611.8 |
| 168 | 140 | 0.88 | 24.2 | 1.12 | 0.5441 | 0.4534 | 1/2 | 2 | 218.7 | 402.7 | 293.2 | 1208.0 | 879.7 |
| 0 | 0 | #DIV/0! | 18.5 | 1.12 | #DIV/0! | #DIV/0! | # | 0 | 0.0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| 0 | 0 | #DIV/0! | 18.5 | 1.12 | #DIV/0! | #DIV/0! | # | 0 | 0.0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |

| | | NODAL COORDINATES | | | BOUNDARY CONDITIONS (F=FIX, S=SUP, M=MASTER/SLAVE) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NODE NO | REBAND NO | X | Y | Z | NODE TEMP | ALPHA | BETA | GAMMA | DIR | DDDOOO XYZXYZ | STIFFNESS |
| Units: | | Ft | Ft | Ft | F | Deg | Deg | Deg | | | K /In /Deg |
| 1 | 1 | 0.00 | 1.97 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 2 | 2 | 1.71 | -0.99 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 3 | 3 | -1.71 | -0.99 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 4 | 4 | 0.00 | 1.97 | 5.11 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 5 | 5 | 1.71 | -0.99 | 5.11 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 6 | 6 | -1.71 | -0.99 | 5.11 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 7 | 7 | 0.00 | 1.97 | 7.52 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 8 | 8 | 1.71 | -0.99 | 7.52 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 9 | 9 | -1.71 | -0.99 | 7.52 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 10 | 10 | 0.00 | 1.97 | 9.93 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 11 | 11 | 1.71 | -0.99 | 9.93 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 12 | 12 | -1.71 | -0.99 | 9.93 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 13 | 13 | 0.00 | 1.97 | 12.34 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 14 | 14 | 1.71 | -0.99 | 12.34 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 15 | 15 | -1.71 | -0.99 | 12.34 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 16 | 16 | 0.00 | 1.97 | 14.75 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 17 | 17 | 1.71 | -0.99 | 14.75 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 18 | 18 | -1.71 | -0.99 | 14.75 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 19 | 19 | 0.00 | 1.97 | 17.16 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 20 | 20 | 1.71 | -0.99 | 17.16 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 21 | 21 | -1.71 | -0.99 | 17.16 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 22 | 22 | 0.00 | 1.97 | 19.57 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 23 | 23 | 1.71 | -0.99 | 19.57 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 24 | 24 | -1.71 | -0.99 | 19.57 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 25 | 25 | 0.00 | 1.97 | 20.18 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 26 | 26 | 1.71 | -0.99 | 20.18 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 27 | 27 | -1.71 | -0.99 | 20.18 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 28 | 28 | 0.00 | 1.97 | 20.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 29 | 29 | 1.71 | -0.99 | 20.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 30 | 30 | -1.71 | -0.99 | 20.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 31 | 31 | 0.00 | 1.97 | 22.71 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 32 | 32 | 1.71 | -0.99 | 22.71 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 33 | 33 | -1.71 | -0.99 | 22.71 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 34 | 34 | 0.00 | 1.97 | 25.11 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 35 | 35 | 1.71 | -0.99 | 25.11 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 36 | 36 | -1.71 | -0.99 | 25.11 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 37 | 37 | 0.00 | 1.97 | 27.52 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 38 | 38 | 1.71 | -0.99 | 27.52 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 39 | 39 | -1.71 | -0.99 | 27.52 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 40 | 40 | 0.00 | 1.97 | 29.93 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 41 | 41 | 1.71 | -0.99 | 29.93 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 42 | 42 | -1.71 | -0.99 | 29.93 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 43 | 43 | 0.00 | 1.97 | 32.34 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 44 | 44 | 1.71 | -0.99 | 32.34 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 45 | 45 | -1.71 | -0.99 | 32.34 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 46 | 46 | 0.00 | 1.97 | 34.75 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 47 | 47 | 1.71 | -0.99 | 34.75 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 48 | 48 | -1.71 | -0.99 | 34.75 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 49 | 49 | 0.00 | 1.97 | 37.16 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 50 | 50 | 1.71 | -0.99 | 37.16 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 51 | 51 | -1.71 | -0.99 | 37.16 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 52 | 52 | 0.00 | 1.97 | 39.57 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 53 | 53 | 1.71 | -0.99 | 39.57 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 54 | 54 | -1.71 | -0.99 | 39.57 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 55 | 55 | 0.00 | 1.97 | 40.18 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 56 | 56 | 1.71 | -0.99 | 40.18 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 57 | 57 | -1.71 | -0.99 | 40.18 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 58 | 58 | 0.00 | 1.97 | 40.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 59 | 59 | 1.71 | -0.99 | 40.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 60 | 60 | -1.71 | -0.99 | 40.30 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 61 | 61 | 0.00 | 1.97 | 42.71 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 62 | 62 | 1.71 | -0.99 | 42.71 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 63 | 63 | -1.71 | -0.99 | 42.71 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 64 | 64 | 0.00 | 1.97 | 45.11 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 65 | 65 | 1.71 | -0.99 | 45.11 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 66 | 66 | -1.71 | -0.99 | 45.11 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 67 | 67 | 0.00 | 1.97 | 47.52 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 68 | 68 | 1.71 | -0.99 | 47.52 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 69 | 69 | -1.71 | -0.99 | 47.52 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 70 | 70 | 0.00 | 1.97 | 49.93 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 71 | 71 | 1.71 | -0.99 | 49.93 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 72 | 72 | -1.71 | -0.99 | 49.93 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 73 | 73 | 0.00 | 1.97 | 52.34 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 74 | 74 | 1.71 | -0.99 | 52.34 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 75 | 75 | -1.71 | -0.99 | 52.34 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| 76 | 76 | 0.00 | 1.97 | 54.75 | 0.00 | 0.00 | 0.00 | 0.00 | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 77 | 77 | 1.71 | -0.99 | 54.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 78 | 78 | -1.71 | -0.99 | 54.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 79 | 79 | 0.00 | 1.97 | 57.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 80 | 1.71 | -0.99 | 57.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 81 | 81 | -1.71 | -0.99 | 57.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 82 | 82 | 0.00 | 1.97 | 59.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 83 | 83 | 1.71 | -0.99 | 59.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 84 | 84 | -1.71 | -0.99 | 59.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 85 | 0.00 | 1.97 | 60.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 86 | 1.71 | -0.99 | 60.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 87 | -1.71 | -0.99 | 60.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | 88 | 0.00 | 1.97 | 60.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 89 | 89 | 1.71 | -0.99 | 60.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 90 | -1.71 | -0.99 | 60.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 91 | 91 | 0.00 | 1.97 | 62.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 92 | 1.71 | -0.99 | 62.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 93 | -1.71 | -0.99 | 62.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | 94 | 0.00 | 1.97 | 65.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95 | 95 | 1.71 | -0.99 | 65.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 96 | 96 | -1.71 | -0.99 | 65.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 97 | 97 | 0.00 | 1.97 | 67.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 98 | 1.71 | -0.99 | 67.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 99 | 99 | -1.71 | -0.99 | 67.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 100 | 0.00 | 1.97 | 69.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 101 | 101 | 1.71 | -0.99 | 69.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 102 | 102 | -1.71 | -0.99 | 69.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 103 | 103 | 0.00 | 1.97 | 72.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 104 | 104 | 1.71 | -0.99 | 72.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 105 | -1.71 | -0.99 | 72.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 106 | 0.00 | 1.97 | 74.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | 107 | 1.71 | -0.99 | 74.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 108 | -1.71 | -0.99 | 74.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 109 | 0.00 | 1.97 | 77.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 110 | 1.71 | -0.99 | 77.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 111 | -1.71 | -0.99 | 77.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 112 | 112 | 0.00 | 1.97 | 79.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | 113 | 1.71 | -0.99 | 79.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 114 | -1.71 | -0.99 | 79.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 115 | 0.00 | 1.97 | 80.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116 | 116 | 1.71 | -0.99 | 80.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 117 | -1.71 | -0.99 | 80.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 118 | 118 | 0.00 | 1.97 | 80.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 119 | 1.71 | -0.99 | 80.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 120 | -1.71 | -0.99 | 80.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 121 | 121 | 0.00 | 1.97 | 82.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 122 | 122 | 1.71 | -0.99 | 82.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 123 | -1.71 | -0.99 | 82.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 124 | 124 | 0.00 | 1.97 | 85.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 125 | 1.71 | -0.99 | 85.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 126 | -1.71 | -0.99 | 85.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 127 | 127 | 0.00 | 1.97 | 87.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | 128 | 1.71 | -0.99 | 87.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 129 | -1.71 | -0.99 | 87.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 130 | 0.00 | 1.97 | 89.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | 131 | 1.71 | -0.99 | 89.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 132 | -1.71 | -0.99 | 89.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 133 | 0.00 | 1.97 | 92.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 134 | 134 | 1.71 | -0.99 | 92.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 135 | -1.71 | -0.99 | 92.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | 136 | 0.00 | 1.97 | 94.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | 137 | 1.71 | -0.99 | 94.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 138 | -1.71 | -0.99 | 94.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 139 | 139 | 0.00 | 1.97 | 97.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 140 | 1.71 | -0.99 | 97.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 141 | -1.71 | -0.99 | 97.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 142 | 0.00 | 1.97 | 99.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 143 | 143 | 1.71 | -0.99 | 99.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 144 | -1.71 | -0.99 | 99.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 145 | 0.00 | 1.97 | 100.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 146 | 146 | 1.71 | -0.99 | 100.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 147 | -1.71 | -0.99 | 100.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 148 | 148 | 0.00 | 1.97 | 100.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 149 | 149 | 1.71 | -0.99 | 100.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 150 | -1.71 | -0.99 | 100.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 151 | 151 | 0.00 | 1.97 | 102.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152 | 152 | 1.71 | -0.99 | 102.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 153 | -1.71 | -0.99 | 102.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 154 | 154 | 0.00 | 1.97 | 105.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 155 | 1.71 | -0.99 | 105.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 156 | -1.71 | -0.99 | 105.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157 | 157 | 0.00 | 1.97 | 107.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 158 | 158 | 1.71 | -0.99 | 107.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 159 | -1.71 | -0.99 | 107.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 160 | 0.00 | 1.97 | 109.93 | 0.00 | 0.00 | 0.00 | 0.00 |

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| 161 | 161 | 1.71 | -0.99 | 109.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 162 | -1.71 | -0.99 | 109.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 163 | 163 | 0.00 | 1.97 | 112.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 164 | 164 | 1.71 | -0.99 | 112.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 165 | -1.71 | -0.99 | 112.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 166 | 166 | 0.00 | 1.97 | 114.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 167 | 167 | 1.71 | -0.99 | 114.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 168 | -1.71 | -0.99 | 114.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 169 | 169 | 0.00 | 1.97 | 117.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 170 | 1.71 | -0.99 | 117.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | 171 | -1.71 | -0.99 | 117.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172 | 172 | 0.00 | 1.97 | 119.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 173 | 173 | 1.71 | -0.99 | 119.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 174 | -1.71 | -0.99 | 119.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 175 | 0.00 | 1.97 | 120.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 176 | 176 | 1.71 | -0.99 | 120.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 177 | -1.71 | -0.99 | 120.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 178 | 178 | 0.00 | 1.97 | 120.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 179 | 179 | 1.71 | -0.99 | 120.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 180 | -1.71 | -0.99 | 120.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 181 | 0.00 | 1.97 | 122.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 182 | 182 | 1.71 | -0.99 | 122.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 183 | 183 | -1.71 | -0.99 | 122.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 184 | 0.00 | 1.97 | 125.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 185 | 185 | 1.71 | -0.99 | 125.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 186 | 186 | -1.71 | -0.99 | 125.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 187 | 187 | 0.00 | 1.97 | 127.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 188 | 188 | 1.71 | -0.99 | 127.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 189 | 189 | -1.71 | -0.99 | 127.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 190 | 190 | 0.00 | 1.97 | 129.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 191 | 191 | 1.71 | -0.99 | 129.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 192 | 192 | -1.71 | -0.99 | 129.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 193 | 193 | 0.00 | 1.97 | 132.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 194 | 194 | 1.71 | -0.99 | 132.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 195 | 195 | -1.71 | -0.99 | 132.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 196 | 196 | 0.00 | 1.97 | 134.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 197 | 197 | 1.71 | -0.99 | 134.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 198 | 198 | -1.71 | -0.99 | 134.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 199 | 199 | 0.00 | 1.97 | 137.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200 | 200 | 1.71 | -0.99 | 137.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 201 | 201 | -1.71 | -0.99 | 137.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 202 | 202 | 0.00 | 1.97 | 139.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 203 | 203 | 1.71 | -0.99 | 139.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 204 | 204 | -1.71 | -0.99 | 139.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 205 | 205 | 0.00 | 1.97 | 140.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 206 | 206 | 1.71 | -0.99 | 140.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 207 | 207 | -1.71 | -0.99 | 140.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 208 | 208 | 0.00 | 1.97 | 140.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 209 | 209 | 1.71 | -0.99 | 140.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 210 | 210 | -1.71 | -0.99 | 140.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 211 | 211 | 0.00 | 1.97 | 142.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 212 | 1.71 | -0.99 | 142.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 213 | 213 | -1.71 | -0.99 | 142.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 214 | 214 | 0.00 | 1.97 | 145.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 215 | 215 | 1.71 | -0.99 | 145.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216 | 216 | -1.71 | -0.99 | 145.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| 217 | 217 | 0.00 | 1.97 | 147.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 218 | 218 | 1.71 | -0.99 | 147.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | 219 | -1.71 | -0.99 | 147.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 220 | 220 | 0.00 | 1.97 | 149.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 221 | 221 | 1.71 | -0.99 | 149.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 222 | 222 | -1.71 | -0.99 | 149.93 | 0.00 | 0.00 | 0.00 | 0.00 |
| 223 | 223 | 0.00 | 1.97 | 152.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 224 | 224 | 1.71 | -0.99 | 152.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225 | 225 | -1.71 | -0.99 | 152.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 226 | 226 | 0.00 | 1.97 | 154.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 227 | 227 | 1.71 | -0.99 | 154.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 228 | 228 | -1.71 | -0.99 | 154.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 229 | 229 | 0.00 | 1.97 | 157.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 230 | 230 | 1.71 | -0.99 | 157.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 231 | 231 | -1.71 | -0.99 | 157.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 232 | 232 | 0.00 | 1.97 | 159.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 233 | 233 | 1.71 | -0.99 | 159.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 234 | 234 | -1.71 | -0.99 | 159.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 235 | 235 | 0.00 | 1.97 | 160.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 236 | 236 | 1.71 | -0.99 | 160.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 237 | 237 | -1.71 | -0.99 | 160.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | 238 | 0.00 | 1.97 | 160.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 239 | 239 | 1.71 | -0.99 | 160.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 240 | 240 | -1.71 | -0.99 | 160.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 241 | 241 | 0.00 | 1.97 | 162.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 242 | 242 | 1.71 | -0.99 | 162.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 243 | 243 | -1.71 | -0.99 | 162.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 244 | 244 | 0.00 | 1.97 | 165.11 | 0.00 | 0.00 | 0.00 | 0.00 |

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| 245 | 245 | 1.71 | -0.99 | 165.11 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 246 | 246 | -1.71 | -0.99 | 165.11 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 247 | 247 | 0.00 | 1.97 | 167.52 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 248 | 248 | 1.71 | -0.99 | 167.52 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 249 | 249 | -1.71 | -0.99 | 167.52 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 250 | 250 | 0.00 | 1.97 | 169.93 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 251 | 251 | 1.71 | -0.99 | 169.93 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 252 | 252 | -1.71 | -0.99 | 169.93 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 253 | 253 | 0.00 | 1.97 | 172.34 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 254 | 254 | 1.71 | -0.99 | 172.34 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 255 | 255 | -1.71 | -0.99 | 172.34 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 256 | 256 | 0.00 | 1.97 | 174.75 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 257 | 257 | 1.71 | -0.99 | 174.75 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 258 | 258 | -1.71 | -0.99 | 174.75 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 259 | 259 | 0.00 | 1.97 | 177.16 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 260 | 260 | 1.71 | -0.99 | 177.16 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 261 | 261 | -1.71 | -0.99 | 177.16 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 262 | 262 | 0.00 | 1.97 | 179.57 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 263 | 263 | 1.71 | -0.99 | 179.57 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 264 | 264 | -1.71 | -0.99 | 179.57 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 265 | 265 | 0.00 | 1.97 | 180.18 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 266 | 266 | 1.71 | -0.99 | 180.18 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 267 | 267 | -1.71 | -0.99 | 180.18 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 268 | 268 | 0.00 | 1.97 | 180.30 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 269 | 269 | 1.71 | -0.99 | 180.30 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 270 | 270 | -1.71 | -0.99 | 180.30 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 301 | 271 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | FFF..F |
| 302 | 272 | 0.00 | 0.39 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 303 | 273 | -0.34 | -0.20 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 304 | 274 | 0.34 | -0.20 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 305 | 275 | 0.00 | 0.76 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 306 | 276 | -0.65 | -0.38 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 307 | 277 | 0.65 | -0.38 | 1.92 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 308 | 278 | 0.00 | 1.12 | 2.83 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 309 | 279 | -0.97 | -0.56 | 2.83 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 310 | 280 | 0.97 | -0.56 | 2.83 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 311 | 281 | 0.00 | 1.48 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 312 | 282 | -1.28 | -0.74 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 313 | 283 | 1.28 | -0.74 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 314 | 284 | 0.00 | 1.84 | 4.67 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 315 | 285 | -1.59 | -0.92 | 4.67 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 316 | 286 | 1.59 | -0.92 | 4.67 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 401 | 287 | -5.22 | 4.00 | 125.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 402 | 288 | -6.07 | 2.52 | 125.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 403 | 289 | -0.85 | -6.52 | 125.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 404 | 290 | 0.85 | -6.52 | 125.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 405 | 291 | 6.07 | 2.52 | 125.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 406 | 292 | 5.22 | 4.00 | 125.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 407 | 293 | 0.00 | 1.97 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 408 | 294 | -1.71 | -0.99 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 409 | 295 | 1.71 | -0.99 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 410 | 296 | -10.44 | 6.03 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 411 | 297 | 0.00 | -12.06 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 412 | 298 | 10.44 | 6.03 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 501 | 299 | -5.22 | 4.00 | 165.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 502 | 300 | -6.07 | 2.52 | 165.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 503 | 301 | -0.85 | -6.52 | 165.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 504 | 302 | 0.85 | -6.52 | 165.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 505 | 303 | 6.07 | 2.52 | 165.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 506 | 304 | 5.22 | 4.00 | 165.78 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 507 | 305 | 0.00 | 1.97 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 508 | 306 | -1.71 | -0.99 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 509 | 307 | 1.71 | -0.99 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 510 | 308 | -10.44 | 6.03 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 511 | 309 | 0.00 | -12.06 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 512 | 310 | 10.44 | 6.03 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2001 | 311 | 0.00 | 140.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | FFFFFF |
| 2002 | 312 | 121.00 | -70.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | FFFFFF |
| 2003 | 313 | -121.00 | -70.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | FFFFFF |
| 2501 | 314 | 0.00 | 2.85 | 60.30 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS |
| | | | | | | | | | DX Slave to Node 88 |
| | | | | | | | | | DY Slave to Node 88 |
| | | | | | | | | | DZ Slave to Node 88 |
| 2502 | 315 | 2.58 | -1.43 | 60.30 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS |
| | | | | | | | | | DX Slave to Node 89 |
| | | | | | | | | | DY Slave to Node 89 |
| | | | | | | | | | DZ Slave to Node 89 |
| 2503 | 316 | -2.58 | -1.43 | 60.30 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS |
| | | | | | | | | | DX Slave to Node 90 |
| | | | | | | | | | DY Slave to Node 90 |
| | | | | | | | | | DZ Slave to Node 90 |
| 3001 | 317 | -10.36 | 7.03 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS |
| | | | | | | | | | DX Slave to Node 410 |
| | | | | | | | | | DY Slave to Node 410 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3002 | 318 | 10.36 | 7.03 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | DZ Slave to Node 410<br>MMMSSS<br>DX Slave to Node 412<br>DY Slave to Node 412<br>DZ Slave to Node 412 |
| 3003 | 319 | 11.26 | 5.46 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 412<br>DY Slave to Node 412<br>DZ Slave to Node 412 |
| 3004 | 320 | 0.90 | -12.49 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 411<br>DY Slave to Node 411<br>DZ Slave to Node 411 |
| 3005 | 321 | -0.90 | -12.49 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 411<br>DY Slave to Node 411<br>DZ Slave to Node 411 |
| 3006 | 322 | -11.26 | 5.46 | 128.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 410<br>DY Slave to Node 410<br>DZ Slave to Node 410 |
| 4001 | 323 | -10.36 | 7.03 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 510<br>DY Slave to Node 510<br>DZ Slave to Node 510 |
| 4002 | 324 | 10.36 | 7.03 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 512<br>DY Slave to Node 512<br>DZ Slave to Node 512 |
| 4003 | 325 | 11.26 | 5.46 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 512<br>DY Slave to Node 512<br>DZ Slave to Node 512 |
| 4004 | 326 | 0.90 | -12.49 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 511<br>DY Slave to Node 511<br>DZ Slave to Node 511 |
| 4005 | 327 | -0.90 | -12.49 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 511<br>DY Slave to Node 511<br>DZ Slave to Node 511 |
| 4006 | 328 | -11.26 | 5.46 | 168.00 | 0.00 | 0.00 | 0.00 | 0.00 | MMMSSS<br>DX Slave to Node 510<br>DY Slave to Node 510<br>DZ Slave to Node 510 |

TOTAL NUMBER OF ACTIVE NODES =, 328
TOTAL NUMBER OF EQUATIONS = 1856

2 NODE PRISMATIC BEAM ELEMENT

| ELEM NO | NE NO | PE NO | ALPHA | BETA | GAMMA | LENGTH | MAT TYPE | PROP TYPE | RELEASE NE | RELEASE PE | REF TEMP | REF DIR | OFFSET NE | OFFSET PE | STIFFNESS NE | STIFFNESS PE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | | | Deg | Deg | Deg | Ft | | | | | F | | Ft | Ft | K /In /Deg | K /In /Deg |
| 1 | 4 | 5 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 | | | | | | | | |
| 2 | 5 | 6 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 | | | | | | | | |
| 3 | 6 | 4 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 | | | | | | | | |
| 4 | 4 | 8 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 5 | 5 | 9 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 6 | 6 | 7 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 7 | 7 | 12 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 8 | 8 | 10 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 9 | 9 | 11 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 10 | 10 | 14 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 11 | 11 | 15 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 12 | 12 | 13 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 13 | 13 | 18 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 14 | 14 | 16 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 15 | 15 | 17 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 16 | 16 | 20 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 17 | 17 | 21 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 18 | 18 | 19 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 19 | 19 | 24 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 20 | 20 | 22 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 21 | 21 | 23 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 22 | 22 | 23 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 | | | | | | | | |
| 23 | 23 | 24 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 | | | | | | | | |
| 24 | 24 | 22 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 | | | | | | | | |
| 25 | 28 | 29 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 | | | | | | | | |
| 26 | 29 | 30 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 | | | | | | | | |
| 27 | 30 | 28 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 | | | | | | | | |
| 28 | 28 | 32 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |
| 29 | 29 | 33 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 30 | 30 | 31 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 31 | 31 | 36 | -35.47 | 45.13 | 0.00 | 4.18 | 1 | 2 |
| 32 | 32 | 34 | -35.47 | -45.13 | 0.00 | 4.18 | 1 | 2 |
| 33 | 33 | 35 | 54.94 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 34 | 34 | 38 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 35 | 35 | 39 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 36 | 36 | 37 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 37 | 37 | 42 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 38 | 38 | 40 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 39 | 39 | 41 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 40 | 40 | 44 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 41 | 41 | 45 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 42 | 42 | 43 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 43 | 43 | 48 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 44 | 44 | 46 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 45 | 45 | 47 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 46 | 46 | 50 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 47 | 47 | 51 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 48 | 48 | 49 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 49 | 49 | 54 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 50 | 50 | 52 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 51 | 51 | 53 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 52 | 52 | 53 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 53 | 53 | 54 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 54 | 54 | 52 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 55 | 58 | 59 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 56 | 59 | 60 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 57 | 60 | 58 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 58 | 58 | 62 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 59 | 59 | 63 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 60 | 60 | 61 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 61 | 61 | 66 | -35.47 | 45.13 | 0.00 | 4.18 | 1 | 2 |
| 62 | 62 | 64 | -35.47 | -45.13 | 0.00 | 4.18 | 1 | 2 |
| 63 | 63 | 65 | 54.94 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 64 | 64 | 68 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 65 | 65 | 69 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 66 | 66 | 67 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 67 | 67 | 72 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 68 | 68 | 70 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 69 | 69 | 71 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 70 | 70 | 74 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 71 | 71 | 75 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 72 | 72 | 73 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 73 | 73 | 78 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 74 | 74 | 76 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 75 | 75 | 77 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 76 | 76 | 80 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 77 | 77 | 81 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 78 | 78 | 79 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 79 | 79 | 84 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 80 | 80 | 82 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 81 | 81 | 83 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 82 | 82 | 83 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 83 | 83 | 84 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 84 | 84 | 82 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 85 | 88 | 89 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 86 | 89 | 90 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 87 | 90 | 88 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 88 | 88 | 92 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 89 | 89 | 93 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 90 | 90 | 91 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 91 | 91 | 96 | -35.47 | 45.13 | 0.00 | 4.18 | 1 | 2 |
| 92 | 92 | 94 | -35.47 | -45.13 | 0.00 | 4.18 | 1 | 2 |
| 93 | 93 | 95 | 54.94 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 94 | 94 | 98 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 95 | 95 | 99 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 96 | 96 | 97 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 97 | 97 | 102 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 98 | 98 | 100 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 99 | 99 | 101 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 100 | 100 | 104 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 101 | 101 | 105 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 102 | 102 | 103 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 103 | 103 | 108 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 104 | 104 | 106 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 105 | 105 | 107 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 106 | 106 | 110 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 107 | 107 | 111 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 108 | 108 | 109 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 109 | 109 | 114 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 110 | 110 | 112 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 111 | 111 | 113 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 112 | 112 | 113 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 113 | 113 | 114 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 114 | 114 | 112 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 115 | 118 | 119 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 116 | 119 | 120 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 117 | 120 | 118 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 118 | 118 | 122 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 119 | 119 | 123 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 120 | 120 | 121 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 121 | 121 | 126 | -35.47 | 45.13 | 0.00 | 4.18 | 1 | 2 |
| 122 | 122 | 124 | -35.47 | -45.13 | 0.00 | 4.18 | 1 | 2 |
| 123 | 123 | 125 | 54.94 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 124 | 124 | 128 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 125 | 125 | 129 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 126 | 126 | 127 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 127 | 127 | 132 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 128 | 128 | 130 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 129 | 129 | 131 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 130 | 130 | 134 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 131 | 131 | 135 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 132 | 132 | 133 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 133 | 133 | 138 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 134 | 134 | 136 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 135 | 135 | 137 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 136 | 136 | 140 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 137 | 137 | 141 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 138 | 138 | 139 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 139 | 139 | 144 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 140 | 140 | 142 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 141 | 141 | 143 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 142 | 142 | 143 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 143 | 143 | 144 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 144 | 144 | 142 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 145 | 148 | 149 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 146 | 149 | 150 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 147 | 150 | 148 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 148 | 148 | 152 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 149 | 149 | 153 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 150 | 150 | 151 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 151 | 151 | 156 | -35.47 | 45.13 | 0.00 | 4.18 | 1 | 2 |
| 152 | 152 | 154 | -35.47 | -45.13 | 0.00 | 4.18 | 1 | 2 |
| 153 | 153 | 155 | 54.94 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 154 | 154 | 158 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 155 | 155 | 159 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 156 | 156 | 157 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 157 | 157 | 162 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 158 | 158 | 160 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 159 | 159 | 161 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 160 | 160 | 164 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 161 | 161 | 165 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 162 | 162 | 163 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 163 | 163 | 168 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 164 | 164 | 166 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 165 | 165 | 167 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 166 | 166 | 170 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 167 | 167 | 171 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 168 | 168 | 169 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 169 | 169 | 174 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 170 | 170 | 172 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 171 | 171 | 173 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 172 | 172 | 173 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 173 | 173 | 174 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 174 | 174 | 172 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 175 | 178 | 179 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 3 |
| 176 | 179 | 180 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 3 |
| 177 | 180 | 178 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 3 |
| 178 | 178 | 182 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 179 | 179 | 181 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 180 | 179 | 183 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 181 | 180 | 182 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 182 | 180 | 181 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 183 | 178 | 183 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 184 | 181 | 185 | 35.47 | 45.13 | 0.00 | 4.18 | 1 | 3 |
| 185 | 182 | 184 | -35.47 | -45.13 | 0.00 | 4.18 | 1 | 3 |
| 186 | 182 | 186 | -54.94 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 187 | 183 | 185 | 54.94 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 188 | 183 | 184 | 35.47 | -45.13 | 0.00 | 4.18 | 1 | 3 |
| 189 | 181 | 186 | -35.47 | 45.13 | 0.00 | 4.18 | 1 | 3 |
| 190 | 186 | 188 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 191 | 185 | 187 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 192 | 185 | 189 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 193 | 184 | 188 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 194 | 186 | 187 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 195 | 184 | 189 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 196 | 187 | 191 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 197 | 188 | 192 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 198 | 188 | 190 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 199 | 189 | 191 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 200 | 189 | 190 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 201 | 187 | 192 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 202 | 190 | 194 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 203 | 191 | 193 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 204 | 191 | 195 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 205 | 192 | 194 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 206 | 192 | 193 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 207 | 190 | 195 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 208 | 193 | 197 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 209 | 194 | 196 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 210 | 194 | 198 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 211 | 195 | 197 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 212 | 195 | 196 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 213 | 193 | 198 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 214 | 196 | 200 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 215 | 197 | 199 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 216 | 197 | 201 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 217 | 198 | 200 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 218 | 198 | 199 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 219 | 196 | 201 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 220 | 199 | 203 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 221 | 200 | 202 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 222 | 200 | 204 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 223 | 201 | 203 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 224 | 201 | 202 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 225 | 199 | 204 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 226 | 202 | 203 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 3 |
| 227 | 203 | 204 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 3 |
| 228 | 204 | 202 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 3 |
| 229 | 208 | 209 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 230 | 209 | 210 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 231 | 210 | 208 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 232 | 208 | 212 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 233 | 209 | 213 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 234 | 210 | 211 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 235 | 211 | 216 | -35.47 | 45.13 | 0.00 | 4.18 | 1 | 2 |
| 236 | 212 | 214 | -35.47 | -45.13 | 0.00 | 4.18 | 1 | 2 |
| 237 | 213 | 215 | 54.94 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 238 | 214 | 218 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 239 | 215 | 219 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 240 | 216 | 217 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 241 | 217 | 222 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 242 | 218 | 220 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 243 | 219 | 221 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 244 | 220 | 224 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 245 | 221 | 225 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 246 | 222 | 223 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 247 | 223 | 228 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 248 | 224 | 226 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 249 | 225 | 227 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 250 | 226 | 230 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 251 | 227 | 231 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 252 | 228 | 229 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 253 | 229 | 234 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 2 |
| 254 | 230 | 232 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 2 |
| 255 | 231 | 233 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 2 |
| 256 | 232 | 233 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 2 |
| 257 | 233 | 234 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 2 |
| 258 | 234 | 232 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 2 |
| 259 | 238 | 239 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 3 |
| 260 | 239 | 240 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 3 |
| 261 | 240 | 238 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 3 |
| 262 | 238 | 242 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 263 | 239 | 241 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 264 | 239 | 243 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 265 | 240 | 242 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 266 | 240 | 241 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 267 | 238 | 243 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 268 | 241 | 245 | 35.47 | 45.13 | 0.00 | 4.18 | 1 | 3 |
| 269 | 242 | 244 | -35.47 | -45.13 | 0.00 | 4.18 | 1 | 3 |
| 270 | 242 | 246 | -54.94 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 271 | 243 | 245 | 54.94 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 272 | 243 | 244 | 35.47 | -45.13 | 0.00 | 4.18 | 1 | 3 |
| 273 | 241 | 246 | -35.47 | 45.13 | 0.00 | 4.18 | 1 | 3 |
| 274 | 244 | 248 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 275 | 245 | 247 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 276 | 245 | 249 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 277 | 246 | 248 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 278 | 246 | 247 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 279 | 244 | 249 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 280 | 247 | 251 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 281 | 248 | 250 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |

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|---|---|---|---|---|---|---|---|---|
| 282 | 248 | 252 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 283 | 249 | 251 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 284 | 249 | 250 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 285 | 247 | 252 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 286 | 250 | 254 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 287 | 251 | 253 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 288 | 251 | 255 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 289 | 252 | 254 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 290 | 252 | 253 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 291 | 250 | 255 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 292 | 253 | 257 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 293 | 254 | 256 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 294 | 254 | 258 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 295 | 255 | 257 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 296 | 255 | 256 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 297 | 253 | 258 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 298 | 256 | 260 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 299 | 257 | 259 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 300 | 257 | 261 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 301 | 258 | 260 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 302 | 258 | 259 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 303 | 256 | 261 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 304 | 259 | 263 | 35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 305 | 260 | 262 | -35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 306 | 260 | 264 | -54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 307 | 261 | 263 | 54.83 | 0.00 | 0.00 | 4.18 | 1 | 3 |
| 308 | 261 | 262 | 35.36 | -45.05 | 0.00 | 4.18 | 1 | 3 |
| 309 | 259 | 264 | -35.36 | 45.05 | 0.00 | 4.18 | 1 | 3 |
| 310 | 262 | 263 | 90.00 | 59.98 | 0.00 | 3.42 | 1 | 3 |
| 311 | 263 | 264 | -90.00 | 0.00 | 0.00 | 3.42 | 1 | 3 |
| 312 | 264 | 262 | 90.00 | -59.98 | 0.00 | 3.42 | 1 | 3 |
| 401 | 301 | 302 | 0.00 | -21.31 | 0.00 | 1.07 | 1 | 1 |
| 402 | 301 | 303 | -18.78 | 10.72 | 0.00 | 1.07 | 1 | 1 |
| 403 | 301 | 304 | 18.78 | 10.72 | 0.00 | 1.07 | 1 | 1 |
| 404 | 302 | 303 | -90.00 | 60.05 | 0.00 | 0.68 | 1 | 1 |
| 405 | 303 | 304 | 90.00 | 0.00 | 0.00 | 0.68 | 1 | 1 |
| 406 | 304 | 302 | -90.00 | -60.05 | 0.00 | 0.68 | 1 | 1 |
| 407 | 302 | 305 | 0.00 | -21.91 | 0.00 | 0.99 | 1 | 1 |
| 408 | 303 | 306 | -18.62 | 10.50 | 0.00 | 0.99 | 1 | 1 |
| 409 | 304 | 307 | 18.62 | 10.50 | 0.00 | 0.99 | 1 | 1 |
| 410 | 305 | 306 | -90.00 | 60.31 | 0.00 | 1.31 | 1 | 1 |
| 411 | 306 | 307 | 90.00 | 0.00 | 0.00 | 1.30 | 1 | 1 |
| 412 | 307 | 305 | -90.00 | -60.31 | 0.00 | 1.31 | 1 | 1 |
| 413 | 305 | 308 | 0.00 | -21.58 | 0.00 | 0.98 | 1 | 1 |
| 414 | 306 | 309 | -19.37 | 10.57 | 0.00 | 0.98 | 1 | 1 |
| 415 | 307 | 310 | 19.37 | 10.57 | 0.00 | 0.98 | 1 | 1 |
| 416 | 308 | 309 | -90.00 | 60.00 | 0.00 | 1.94 | 1 | 1 |
| 417 | 309 | 310 | 90.00 | 0.00 | 0.00 | 1.94 | 1 | 1 |
| 418 | 310 | 308 | -90.00 | -60.00 | 0.00 | 1.94 | 1 | 1 |
| 419 | 308 | 311 | 0.00 | -21.37 | 0.00 | 0.99 | 1 | 1 |
| 420 | 309 | 312 | -18.62 | 10.50 | 0.00 | 0.99 | 1 | 1 |
| 421 | 310 | 313 | 18.62 | 10.50 | 0.00 | 0.99 | 1 | 1 |
| 422 | 311 | 312 | -90.00 | 60.03 | 0.00 | 2.56 | 1 | 1 |
| 423 | 312 | 313 | 90.00 | 0.00 | 0.00 | 2.56 | 1 | 1 |
| 424 | 313 | 311 | -90.00 | -60.03 | 0.00 | 2.56 | 1 | 1 |
| 425 | 311 | 314 | 0.00 | -21.37 | 0.00 | 0.99 | 1 | 1 |
| 426 | 312 | 315 | -18.62 | 10.50 | 0.00 | 0.99 | 1 | 1 |
| 427 | 313 | 316 | 18.62 | 10.50 | 0.00 | 0.99 | 1 | 1 |
| 428 | 314 | 315 | -90.00 | 60.05 | 0.00 | 3.19 | 1 | 1 |
| 429 | 315 | 316 | 90.00 | 0.00 | 0.00 | 3.18 | 1 | 1 |
| 430 | 316 | 314 | -90.00 | -60.05 | 0.00 | 3.19 | 1 | 1 |
| 431 | 314 | 1 | 0.00 | -21.50 | 0.00 | 0.35 | 1 | 1 |
| 432 | 315 | 3 | -19.98 | 11.27 | 0.00 | 0.36 | 1 | 1 |
| 433 | 316 | 2 | 19.98 | 11.27 | 0.00 | 0.36 | 1 | 1 |
| 501 | 178 | 401 | -43.61 | -15.01 | 0.00 | 7.84 | 1 | 1 |
| 502 | 180 | 401 | -32.64 | -37.48 | 0.00 | 8.20 | 1 | 1 |
| 503 | 180 | 402 | -38.51 | -26.62 | 0.00 | 7.83 | 1 | 1 |
| 504 | 179 | 404 | -8.92 | 44.91 | 0.00 | 7.83 | 1 | 1 |
| 505 | 180 | 403 | 8.92 | 44.91 | 0.00 | 7.83 | 1 | 1 |
| 506 | 179 | 403 | -25.04 | 42.44 | 0.00 | 8.20 | 1 | 1 |
| 507 | 179 | 405 | 38.51 | -26.62 | 0.00 | 7.83 | 1 | 1 |
| 508 | 178 | 405 | 47.92 | -3.85 | 0.00 | 8.20 | 1 | 1 |
| 509 | 178 | 406 | 43.61 | -15.01 | 0.00 | 7.84 | 1 | 1 |
| 510 | 401 | 402 | -90.00 | 60.13 | 0.00 | 1.71 | 1 | 1 |
| 511 | 403 | 404 | 90.00 | 0.00 | 0.00 | 1.70 | 1 | 1 |
| 512 | 405 | 406 | -90.00 | -60.13 | 0.00 | 1.71 | 1 | 1 |
| 513 | 401 | 410 | -66.96 | -19.69 | 0.00 | 6.02 | 1 | 1 |
| 514 | 402 | 410 | -63.07 | -35.61 | 0.00 | 6.03 | 1 | 1 |
| 515 | 403 | 411 | 20.95 | 66.78 | 0.00 | 6.03 | 1 | 1 |
| 516 | 404 | 411 | -20.95 | 66.78 | 0.00 | 6.03 | 1 | 1 |
| 517 | 405 | 412 | 63.07 | -35.61 | 0.00 | 6.03 | 1 | 1 |
| 518 | 406 | 412 | 66.96 | -19.69 | 0.00 | 6.02 | 1 | 1 |
| 519 | 407 | 410 | -90.00 | -21.25 | 0.00 | 11.20 | 1 | 1 |
| 520 | 408 | 410 | -90.00 | -38.80 | 0.00 | 11.20 | 1 | 1 |

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|---|---|---|---|---|---|---|---|---|
| 521 | 408 | 411 | 90.00 | 81.22 | 0.00 | 11.20 | 1 | 1 |
| 522 | 409 | 411 | -90.00 | 81.22 | 0.00 | 11.20 | 1 | 1 |
| 523 | 409 | 412 | 90.00 | -38.80 | 0.00 | 11.20 | 1 | 1 |
| 524 | 407 | 412 | 90.00 | -21.25 | 0.00 | 11.20 | 1 | 1 |
| 525 | 407 | 401 | -113.04 | -19.69 | 0.00 | 6.02 | 1 | 1 |
| 526 | 408 | 402 | -116.98 | -35.66 | 0.00 | 6.02 | 1 | 1 |
| 527 | 408 | 403 | 158.82 | 66.71 | 0.00 | 6.02 | 1 | 1 |
| 528 | 409 | 404 | -158.82 | 66.71 | 0.00 | 6.02 | 1 | 1 |
| 529 | 409 | 405 | 116.98 | -35.66 | 0.00 | 6.02 | 1 | 1 |
| 530 | 407 | 406 | 113.04 | -19.69 | 0.00 | 6.02 | 1 | 1 |
| 601 | 238 | 501 | -43.61 | -15.01 | 0.00 | 7.84 | 1 | 1 |
| 602 | 240 | 501 | -32.64 | -37.48 | 0.00 | 8.20 | 1 | 1 |
| 603 | 240 | 502 | -38.51 | -26.62 | 0.00 | 7.83 | 1 | 1 |
| 604 | 239 | 504 | -8.92 | 44.91 | 0.00 | 7.83 | 1 | 1 |
| 605 | 240 | 503 | 8.92 | 44.91 | 0.00 | 7.83 | 1 | 1 |
| 606 | 239 | 503 | -25.04 | 42.44 | 0.00 | 8.20 | 1 | 1 |
| 607 | 239 | 505 | 38.51 | -26.62 | 0.00 | 7.83 | 1 | 1 |
| 608 | 238 | 505 | 47.92 | -3.85 | 0.00 | 8.20 | 1 | 1 |
| 609 | 238 | 506 | 43.61 | -15.01 | 0.00 | 7.84 | 1 | 1 |
| 610 | 501 | 502 | -90.00 | 60.13 | 0.00 | 1.71 | 1 | 1 |
| 611 | 503 | 504 | 90.00 | 0.00 | 0.00 | 1.70 | 1 | 1 |
| 612 | 505 | 506 | -90.00 | -60.13 | 0.00 | 1.71 | 1 | 1 |
| 613 | 501 | 510 | -66.96 | -19.69 | 0.00 | 6.02 | 1 | 1 |
| 614 | 502 | 510 | -63.07 | -35.61 | 0.00 | 6.03 | 1 | 1 |
| 615 | 503 | 511 | 20.95 | 66.78 | 0.00 | 6.03 | 1 | 1 |
| 616 | 504 | 511 | -20.95 | 66.78 | 0.00 | 6.03 | 1 | 1 |
| 617 | 505 | 512 | 63.07 | -35.61 | 0.00 | 6.03 | 1 | 1 |
| 618 | 506 | 512 | 66.96 | -19.69 | 0.00 | 6.02 | 1 | 1 |
| 619 | 507 | 510 | -90.00 | -21.25 | 0.00 | 11.20 | 1 | 1 |
| 620 | 508 | 510 | -90.00 | -38.80 | 0.00 | 11.20 | 1 | 1 |
| 621 | 508 | 511 | 90.00 | 81.22 | 0.00 | 11.20 | 1 | 1 |
| 622 | 509 | 511 | -90.00 | 81.22 | 0.00 | 11.20 | 1 | 1 |
| 623 | 509 | 512 | 90.00 | -38.80 | 0.00 | 11.20 | 1 | 1 |
| 624 | 507 | 512 | 90.00 | -21.25 | 0.00 | 11.20 | 1 | 1 |
| 625 | 507 | 501 | -113.04 | -19.69 | 0.00 | 6.02 | 1 | 1 |
| 626 | 508 | 502 | -116.98 | -35.66 | 0.00 | 6.02 | 1 | 1 |
| 627 | 508 | 503 | 158.82 | 66.71 | 0.00 | 6.02 | 1 | 1 |
| 628 | 509 | 504 | -158.82 | 66.71 | 0.00 | 6.02 | 1 | 1 |
| 629 | 509 | 505 | 116.98 | -35.66 | 0.00 | 6.02 | 1 | 1 |
| 630 | 507 | 506 | 113.04 | -19.69 | 0.00 | 6.02 | 1 | 1 |
| 1001 | 1 | 4 | 0.00 | 0.00 | 0.00 | 0.11 | 1 | 1 |
| 1002 | 2 | 5 | 0.00 | 0.00 | 0.00 | 0.11 | 1 | 1 |
| 1003 | 3 | 6 | 0.00 | 0.00 | 0.00 | 0.11 | 1 | 1 |
| 1004 | 4 | 7 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1005 | 5 | 8 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1006 | 6 | 9 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1007 | 7 | 10 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1008 | 8 | 11 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1009 | 9 | 12 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1010 | 10 | 13 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1011 | 11 | 14 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1012 | 12 | 15 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1013 | 13 | 16 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1014 | 14 | 17 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1015 | 15 | 18 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1016 | 16 | 19 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1017 | 17 | 20 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1018 | 18 | 21 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1019 | 19 | 22 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1020 | 20 | 23 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1021 | 21 | 24 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1022 | 22 | 25 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1023 | 23 | 26 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1024 | 24 | 27 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1025 | 25 | 28 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1026 | 26 | 29 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1027 | 27 | 30 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1028 | 28 | 31 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1029 | 29 | 32 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1030 | 30 | 33 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1031 | 31 | 34 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1032 | 32 | 35 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1033 | 33 | 36 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1034 | 34 | 37 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1035 | 35 | 38 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1036 | 36 | 39 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1037 | 37 | 40 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1038 | 38 | 41 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1039 | 39 | 42 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1040 | 40 | 43 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1041 | 41 | 44 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1042 | 42 | 45 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1043 | 43 | 46 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1044 | 44 | 47 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |

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|---|---|---|---|---|---|---|---|---|
| 1045 | 45 | 48 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1046 | 46 | 49 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1047 | 47 | 50 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1048 | 48 | 51 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1049 | 49 | 52 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1050 | 50 | 53 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1051 | 51 | 54 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1052 | 52 | 55 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1053 | 53 | 56 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1054 | 54 | 57 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1055 | 55 | 58 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1056 | 56 | 59 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1057 | 57 | 60 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1058 | 58 | 61 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1059 | 59 | 62 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1060 | 60 | 63 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1061 | 61 | 64 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1062 | 62 | 65 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1063 | 63 | 66 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1064 | 64 | 67 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1065 | 65 | 68 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1066 | 66 | 69 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1067 | 67 | 70 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1068 | 68 | 71 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1069 | 69 | 72 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1070 | 70 | 73 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1071 | 71 | 74 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1072 | 72 | 75 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1073 | 73 | 76 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1074 | 74 | 77 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1075 | 75 | 78 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1076 | 76 | 79 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1077 | 77 | 80 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1078 | 78 | 81 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1079 | 79 | 82 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1080 | 80 | 83 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1081 | 81 | 84 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1082 | 82 | 85 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1083 | 83 | 86 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1084 | 84 | 87 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1085 | 85 | 88 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1086 | 86 | 89 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1087 | 87 | 90 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1088 | 88 | 91 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1089 | 89 | 92 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1090 | 90 | 93 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1091 | 91 | 94 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1092 | 92 | 95 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1093 | 93 | 96 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1094 | 94 | 97 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1095 | 95 | 98 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1096 | 96 | 99 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1097 | 97 | 100 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1098 | 98 | 101 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1099 | 99 | 102 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1100 | 100 | 103 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1101 | 101 | 104 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1102 | 102 | 105 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1103 | 103 | 106 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1104 | 104 | 107 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1105 | 105 | 108 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1106 | 106 | 109 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1107 | 107 | 110 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1108 | 108 | 111 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1109 | 109 | 112 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1110 | 110 | 113 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1111 | 111 | 114 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1112 | 112 | 115 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1113 | 113 | 116 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1114 | 114 | 117 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1115 | 115 | 118 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1116 | 116 | 119 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1117 | 117 | 120 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1118 | 118 | 121 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1119 | 119 | 122 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1120 | 120 | 123 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1121 | 121 | 124 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1122 | 122 | 125 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1123 | 123 | 126 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1124 | 124 | 127 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1125 | 125 | 128 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1126 | 126 | 129 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1127 | 127 | 130 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1128 | 128 | 131 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1129 | 129 | 132 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1130 | 130 | 133 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1131 | 131 | 134 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1132 | 132 | 135 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1133 | 133 | 136 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1134 | 134 | 137 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1135 | 135 | 138 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1136 | 136 | 139 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1137 | 137 | 140 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1138 | 138 | 141 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1139 | 139 | 142 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1140 | 140 | 143 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1141 | 141 | 144 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1142 | 142 | 145 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1143 | 143 | 146 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1144 | 144 | 147 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1145 | 145 | 148 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1146 | 146 | 149 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1147 | 147 | 150 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1148 | 148 | 151 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1149 | 149 | 152 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1150 | 150 | 153 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1151 | 151 | 154 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1152 | 152 | 155 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1153 | 153 | 156 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1154 | 154 | 157 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1155 | 155 | 158 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1156 | 156 | 159 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1157 | 157 | 160 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1158 | 158 | 161 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1159 | 159 | 162 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1160 | 160 | 163 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1161 | 161 | 164 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1162 | 162 | 165 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1163 | 163 | 166 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1164 | 164 | 167 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1165 | 165 | 168 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1166 | 166 | 169 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1167 | 167 | 170 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1168 | 168 | 171 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1169 | 169 | 172 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1170 | 170 | 173 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1171 | 171 | 174 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1172 | 172 | 175 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1173 | 173 | 176 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1174 | 174 | 177 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1175 | 175 | 178 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1176 | 176 | 179 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1177 | 177 | 180 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1178 | 178 | 181 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1179 | 179 | 182 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1180 | 180 | 183 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1181 | 181 | 184 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1182 | 182 | 185 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1183 | 183 | 186 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1184 | 184 | 187 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1185 | 185 | 188 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1186 | 186 | 189 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1187 | 187 | 407 | 0.00 | 0.00 | 0.00 | 0.48 | 1 | 1 |
| 1188 | 188 | 409 | 0.00 | 0.00 | 0.00 | 0.48 | 1 | 1 |
| 1189 | 189 | 408 | 0.00 | 0.00 | 0.00 | 0.48 | 1 | 1 |
| 1190 | 190 | 193 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1191 | 191 | 194 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1192 | 192 | 195 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1193 | 193 | 196 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1194 | 194 | 197 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1195 | 195 | 198 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1196 | 196 | 199 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1197 | 197 | 200 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1198 | 198 | 201 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1199 | 199 | 202 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1200 | 200 | 203 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1201 | 201 | 204 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1202 | 202 | 205 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1203 | 203 | 206 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1204 | 204 | 207 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1205 | 205 | 208 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1206 | 206 | 209 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1207 | 207 | 210 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1208 | 208 | 211 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1209 | 209 | 212 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1210 | 210 | 213 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1211 | 211 | 214 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1212 | 212 | 215 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1213 | 213 | 216 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1214 | 214 | 217 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1215 | 215 | 218 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1216 | 216 | 219 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1217 | 217 | 220 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1218 | 218 | 221 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1219 | 219 | 222 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1220 | 220 | 223 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1221 | 221 | 224 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1222 | 222 | 225 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1223 | 223 | 226 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1224 | 224 | 227 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1225 | 225 | 228 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1226 | 226 | 229 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1227 | 227 | 230 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1228 | 228 | 231 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1229 | 229 | 232 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1230 | 230 | 233 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1231 | 231 | 234 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1232 | 232 | 235 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1233 | 233 | 236 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1234 | 234 | 237 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1235 | 235 | 238 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1236 | 236 | 239 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1237 | 237 | 240 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1238 | 238 | 241 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1239 | 239 | 242 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1240 | 240 | 243 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1241 | 241 | 244 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1242 | 242 | 245 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1243 | 243 | 246 | 0.00 | 0.00 | 0.00 | 2.40 | 1 | 1 |
| 1244 | 244 | 247 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1245 | 245 | 248 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1246 | 246 | 249 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1247 | 247 | 507 | 0.00 | 0.00 | 0.00 | 0.48 | 1 | 1 |
| 1248 | 248 | 509 | 0.00 | 0.00 | 0.00 | 0.48 | 1 | 1 |
| 1249 | 249 | 508 | 0.00 | 0.00 | 0.00 | 0.48 | 1 | 1 |
| 1250 | 250 | 253 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1251 | 251 | 254 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1252 | 252 | 255 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1253 | 253 | 256 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1254 | 254 | 257 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1255 | 255 | 258 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1256 | 256 | 259 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1257 | 257 | 260 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1258 | 258 | 261 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1259 | 259 | 262 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1260 | 260 | 263 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1261 | 261 | 264 | 0.00 | 0.00 | 0.00 | 2.41 | 1 | 1 |
| 1262 | 262 | 265 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1263 | 263 | 266 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1264 | 264 | 267 | 0.00 | 0.00 | 0.00 | 0.61 | 1 | 1 |
| 1265 | 265 | 268 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1266 | 266 | 269 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 1267 | 267 | 270 | 0.00 | 0.00 | 0.00 | 0.12 | 1 | 1 |
| 11901 | 407 | 190 | 0.00 | 0.00 | 0.00 | 1.93 | 1 | 1 |
| 11911 | 409 | 191 | 0.00 | 0.00 | 0.00 | 1.93 | 1 | 1 |
| 11921 | 408 | 192 | 0.00 | 0.00 | 0.00 | 1.93 | 1 | 1 |
| 12501 | 507 | 250 | 0.00 | 0.00 | 0.00 | 1.93 | 1 | 1 |
| 12511 | 509 | 251 | 0.00 | 0.00 | 0.00 | 1.93 | 1 | 1 |
| 12521 | 508 | 252 | 0.00 | 0.00 | 0.00 | 1.93 | 1 | 1 |

TOTAL NUMBER OF ACTIVE PRISMATIC BEAM ELEMENTS = 678

| ELEM NO | NE NO | PE NO | ALPHA | BETA | CHORD LENGTH | 2 NODE CABLE ELEMENT MAT TYPE | PROP TYPE | TEN | LU | REF TEMP | CONNECTION OFFSETS DX | DY | DZ | DX | DY | DZ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | | | Deg | Deg | Ft | | | K | Ft | F | Ft | Ft | Ft | Ft | Ft | Ft |
| 2001 | 2001 | 2501 | 0.00 | 66.27 | 149.82 | 2 | 11 | 3.50 | 0.00 | | | | | | | |
| 2002 | 2002 | 2502 | -63.01 | -27.29 | 149.54 | 2 | 11 | 3.50 | 0.00 | | | | | | | |
| 2003 | 2003 | 2503 | 63.01 | -27.29 | 149.54 | 2 | 11 | 3.50 | 0.00 | | | | | | | |
| 2011 | 2001 | 3001 | -4.63 | 46.00 | 184.86 | 2 | 11 | 3.50 | 0.00 | | | | | | | |
| 2012 | 2001 | 3002 | 4.63 | 46.00 | 184.86 | 2 | 11 | 3.50 | 0.00 | | | | | | | |
| 2013 | 2002 | 3003 | -40.61 | -24.11 | 184.72 | 2 | 11 | 3.50 | 0.00 | | | | | | | |
| 2014 | 2002 | 3004 | -43.18 | -18.14 | 184.70 | 2 | 11 | 3.50 | 0.00 | | | | | | | |
| 2015 | 2003 | 3006 | 40.61 | -24.11 | 184.72 | 2 | 11 | 3.50 | 0.00 | | | | | | | |
| 2016 | 2003 | 3005 | 43.18 | -18.14 | 184.70 | 2 | 11 | 3.50 | 0.00 | | | | | | | |
| 2021 | 2001 | 4001 | -3.53 | 38.31 | 214.50 | 2 | 13 | 2.69 | 0.00 | | | | | | | |
| 2022 | 2001 | 4002 | 3.53 | 38.31 | 214.50 | 2 | 13 | 2.69 | 0.00 | | | | | | | |
| 2023 | 2002 | 4003 | -33.15 | -20.61 | 214.39 | 2 | 13 | 2.69 | 0.00 | | | | | | | |
| 2024 | 2002 | 4004 | -35.56 | -15.56 | 214.37 | 2 | 13 | 2.69 | 0.00 | | | | | | | |
| 2025 | 2003 | 4006 | 33.15 | -20.61 | 214.39 | 2 | 13 | 2.69 | 0.00 | | | | | | | |
| 2026 | 2003 | 4005 | 35.56 | -15.56 | 214.37 | 2 | 13 | 2.69 | 0.00 | | | | | | | |

TOTAL NUMBER OF ACTIVE CABLE ELEMENTS = 15

MATERIAL PROPERTIES

| MATL NO | DESIGNATION | YOUNG'S MODULUS | POISSON'S RATIO | THERMAL COEFF | MASS DENSITY | WEIGHT DENSITY |
|---|---|---|---|---|---|---|
| Units: | | K /In ^2 | | F | Slug/Ft^3 | Lb/Ft ^3 |
| 1 | STEEL | 2.9e+004 | 0.250 | 6.5e-006 | 15.2 | 490 |
| 2 | CABLE | 9.21e+004 | 0.010 | 6.5e-006 | 15.2 | 382 |

2 NODE PRISMATIC BEAM ELEMENT PROPERTIES

| PROP | DESIGNATION | A | IXX | IYY | J | IXY | SFY | SFX | CW |
|---|---|---|---|---|---|---|---|---|---|
| Units: | | In^2 | In^4 | In^4 | In^4 | In^4 | | | In^6 |
| 1 | 2 1/2" STD | 1.7 | 1.53 | 1.53 | 3.06 | 0 | 1.000 | 1.000 | 0 |
| 2 | 1 1/2" X 16GA | 0.28 | 0.07 | 0.07 | 0.14 | 0 | 1.000 | 1.000 | 0 |
| 3 | 1 1/2X1 1/2X3/16 | 0.527 | 0.11 | 0.11 | 0.22 | 0 | 1.000 | 1.000 | 0 |

2 NODE CABLE ELEMENT PROPERTIES

| PROP | DESIGNATION | A | Diameter |
|---|---|---|---|
| Units: | | In^2 | In |
| 11 | 9/6" GUYS | 0.2485 | 0.562 |
| 13 | 1/2" GUYS | 0.196 | 0.500 |

GRAVITY LOAD MULTIPLIERS

| REC NO | PX | PY | PZ |
|---|---|---|---|
| DESCRIPTION : DEAD LOAD<br>LOAD CASES : 9<br>ELEMENT LIST : 1-8000 | | | |
| 1 | 0.000 | 0.000 | -1.000 |

2 NODE PRISMATIC BEAM ELEMENT LOAD INFORMATION

| REC NO | LOAD TYPE | LOAD SYS | DIST SPEC | | DIST | PX | PY | PZ | MX | MY | MZ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units: | | | | | Ft | K | K | K | Ft-K | Ft-K | Ft-K |
| DESCRIPTION : Section 1<br>LOAD CASES : 2<br>ELEMENT LIST : 1002-1083*3,1003-1084*3 | | | | | | | | | | | |
| 11 | UNIF | GLO | FRAC | B | 0.000 | 0.000 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | E | 1.000 | 0.000 | 0.026 | 0.000 | 0.000 | 0.000 | 0.000 |
| DESCRIPTION : Section 2<br>LOAD CASES : 2<br>ELEMENT LIST : 1086-1173*3,1087-1174*3 | | | | | | | | | | | |
| 12 | UNIF | GLO | FRAC | B | 0.000 | 0.000 | 0.034 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | E | 1.000 | 0.000 | 0.034 | 0.000 | 0.000 | 0.000 | 0.000 |
| DESCRIPTION : Section 3<br>LOAD CASES : 3<br>ELEMENT LIST : 1176-1188*3,1177-1189*3 | | | | | | | | | | | |
| 13 | UNIF | GLO | FRAC | B | 0.000 | 0.000 | 0.047 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | E | 1.000 | 0.000 | 0.047 | 0.000 | 0.000 | 0.000 | 0.000 |
| DESCRIPTION : Section 4<br>LOAD CASES : 2<br>ELEMENT LIST : 1191-1206*3,1192-1207*3 | | | | | | | | | | | |
| 14 | UNIF | GLO | FRAC | B | 0.000 | 0.000 | 0.047 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | E | 1.000 | 0.000 | 0.047 | 0.000 | 0.000 | 0.000 | 0.000 |
| DESCRIPTION : Section 5<br>LOAD CASES : 2<br>ELEMENT LIST : 1209-1236*3,1210-1237*3 | | | | | | | | | | | |
| 15 | UNIF | GLO | FRAC | B | 0.000 | 0.000 | 0.039 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | E | 1.000 | 0.000 | 0.039 | 0.000 | 0.000 | 0.000 | 0.000 |

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DESCRIPTION  : Section 6
LOAD CASES   : 2
ELEMENT LIST : 1239-1248*3,1240-1249*3

  16   UNIF  GLO  FRAC   B      0.000      0.000      0.047      0.000      0.000      0.000      0.000
                         E      1.000      0.000      0.047      0.000      0.000      0.000      0.000

DESCRIPTION  : Section 7
LOAD CASES   : 2
ELEMENT LIST : 1251-1269*3,1252-1270*3

  17   UNIF  GLO  FRAC   B      0.000      0.000      0.045      0.000      0.000      0.000      0.000
                         E      1.000      0.000      0.045      0.000      0.000      0.000      0.000

DESCRIPTION  : Section 1 90 deg
LOAD CASES   : 4
ELEMENT LIST : 1002-1083*3,1003-1084*3

  31   UNIF  GLO  FRAC   B      0.000      0.026      0.000      0.000      0.000      0.000      0.000
                         E      1.000      0.026      0.000      0.000      0.000      0.000      0.000

DESCRIPTION  : Section 2 90 deg
LOAD CASES   : 4
ELEMENT LIST : 1086-1173*3,1087-1174*3

  32   UNIF  GLO  FRAC   B      0.000      0.034      0.000      0.000      0.000      0.000      0.000
                         E      1.000      0.034      0.000      0.000      0.000      0.000      0.000

DESCRIPTION  : Section 3 90 deg
LOAD CASES   : 4
ELEMENT LIST : 1179-1188*3,1177-1189*3

  33   UNIF  GLO  FRAC   B      0.000      0.047      0.000      0.000      0.000      0.000      0.000
                         E      1.000      0.047      0.000      0.000      0.000      0.000      0.000

DESCRIPTION  : Section 4 90 deg
LOAD CASES   : 4
ELEMENT LIST : 1191-1206*3,1192-1207*3

  34   UNIF  GLO  FRAC   B      0.000      0.047      0.000      0.000      0.000      0.000      0.000
                         E      1.000      0.047      0.000      0.000      0.000      0.000      0.000

DESCRIPTION  : Section 5 90 deg
LOAD CASES   : 4
ELEMENT LIST : 1209-1236*3,1210-1237*3

  35   UNIF  GLO  FRAC   B      0.000      0.039      0.000      0.000      0.000      0.000      0.000
                         E      1.000      0.039      0.000      0.000      0.000      0.000      0.000

DESCRIPTION  : Section 6 90 deg
LOAD CASES   : 4
ELEMENT LIST : 1239-1248*3,1240-1249*3

  36   UNIF  GLO  FRAC   B      0.000      0.047      0.000      0.000      0.000      0.000      0.000
                         E      1.000      0.047      0.000      0.000      0.000      0.000      0.000

DESCRIPTION  : Section 7 deg 90
LOAD CASES   : 4
ELEMENT LIST : 1251-1269*3,1252-1270*3

  37   UNIF  GLO  FRAC   B      0.000      0.045      0.000      0.000      0.000      0.000      0.000
                         E      1.000      0.045      0.000      0.000      0.000      0.000      0.000

DESCRIPTION  : Torque Arm @ 168 no ice
LOAD CASES   : 2
ELEMENT LIST : 620,614,603,623,617,607

 102   UNIF  GLO  FRAC   B      0.000      0.000      0.022      0.000      0.000      0.000      0.000
                         E      1.000      0.000      0.022      0.000      0.000      0.000      0.000

DESCRIPTION  : TORQUE ARM @ 128 no ice
LOAD CASES   : 2
ELEMENT LIST : 520,514,503,523,517,507

 104   UNIF  GLO  FRAC   B      0.000      0.000      0.020      0.000      0.000      0.000      0.000
                         E      1.000      0.000      0.020      0.000      0.000      0.000      0.000

DESCRIPTION  : TORQUE ARM @ 168 NO ICE 90 DEGREES
LOAD CASES   : 4
ELEMENT LIST : 620,614,603,621,615,604

 106   UNIF  GLO  FRAC   B      0.000      0.022      0.000      0.000      0.000      0.000      0.000
                         E      1.000      0.022      0.000      0.000      0.000      0.000      0.000
```

DESCRIPTION : TORQUE ARM @ 128 no ICE 90 DEGREES
LOAD CASES : 4
ELEMENT LIST : 520,514,503,521,515,504

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 108 | UNIF | GLO | FRAC | B | 0.000 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | | | E | 1.000 | 0.020 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (proposed) 5 panels no ice
LOAD CASES : 2
ELEMENT LIST : 112
DISTANCES : 0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 109 | CONC | GLO | DIST | 0.000 | 0.710 | -0.355 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (proposed) 5 panel no ice
LOAD CASES : 2
ELEMENT LIST : 113
DISTANCES : 0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 110 | CONC | GLO | DIST | 0.000 | 0.710 | -0.355 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (proposed) 6 Panel no ice
LOAD CASES : 2
ELEMENT LIST : 114
DISTANCES : 0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 111 | CONC | GLO | DIST | 0.000 | 0.788 | -0.376 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (Proposed) 5 panel no ice 90 deg
LOAD CASES : 4
ELEMENT LIST : 112
DISTANCES : 0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 112 | CONC | GLO | DIST | 0.710 | 0.000 | -0.355 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (proposed) 5 panel no ice 90 deg
LOAD CASES : 4
ELEMENT LIST : 113
DISTANCES : 0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 113 | CONC | GLO | DIST | 0.710 | 0.000 | -0.355 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (proposed) 6 panel no ice 90 deg
LOAD CASES : 4
ELEMENT LIST : 114
DISTANCES : 0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 114 | CONC | GLO | DIST | 0.788 | 0.000 | -0.376 | 0.000 | 0.000 | 0.000 |

| REC NO | ALPHA | BETA | GAMMA | PX | NODAL LOADS PY | PZ | MX | MY | MZ |
|---|---|---|---|---|---|---|---|---|---|
| Units: | Deg | Deg | Deg | K | K | K | Ft-K | Ft-K | Ft-K |

DESCRIPTION : TINSEL @ TOP no ICE
LOAD CASES : 2
NODE LIST : 268-270

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 21 | 0.00 | 0.00 | 0.00 | 0.000 | 0.027 | -0.010 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : WHIP @ 180 no ICE
LOAD CASES : 2
NODE LIST : 268

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 22 | 0.00 | 0.00 | 0.00 | 0.000 | 0.101 | -0.075 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : WHIP @ 180 no ICE
LOAD CASES : 2
NODE LIST : 270

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 23 | 0.00 | 0.00 | 0.00 | 0.000 | 0.050 | -0.050 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : WHIP and Omni @ 178' no ice
LOAD CASES : 2
NODE LIST : 263

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 24 | 0.00 | 0.00 | 0.00 | 0.000 | 0.130 | -0.100 | 0.000 | 0.000 | 0.260 |

DESCRIPTION : WHIP @ 150 no ICE
LOAD CASES : 2
NODE LIST : 221,222

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 0.00 | 0.00 | 0.00 | 0.000 | 0.200 | -0.100 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : YAGI @ 81 no ICE
LOAD CASES : 2
NODE LIST : 120

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 30 | 0.00 | 0.00 | 0.00 | 0.000 | 0.078 | -0.075 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : ANEMOMETER @ 57 no ICE
LOAD CASES : 2
NODE LIST : 79

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 31 | 0.00 | 0.00 | 0.00 | 0.000 | 0.008 | -0.025 | 0.000 | 0.000 | 0.004 |

DESCRIPTION : DIPOLE @ 35 no ICE
LOAD CASES : 2
NODE LIST : 46

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 32 | 0.00 | 0.00 | 0.00 | 0.000 | 0.019 | -0.050 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : DISH @ 173 no ICE
LOAD CASES : 2
NODE LIST : 255

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 33 | 0.00 | 0.00 | 0.00 | 0.000 | 1.828 | -1.000 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : DIPOLE @ 133 no ice
LOAD CASES : 2
NODE LIST : 195

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 0.00 | 0.00 | 0.00 | 0.000 | 0.028 | -0.050 | 0.000 | 0.000 | 0.014 |

DESCRIPTION : WHIP @ 112 no ICE
LOAD CASES : 2
NODE LIST : 164

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 38 | 0.00 | 0.00 | 0.00 | 0.000 | 0.309 | -0.150 | 0.000 | 0.000 | 0.155 |

DESCRIPTION : DIPOLE @ 109 no ICE
LOAD CASES : 2
NODE LIST : 162

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 39 | 0.00 | 0.00 | 0.00 | 0.000 | 0.195 | -0.075 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : YAGI @ 81 no ICE
LOAD CASES : 4
NODE LIST : 120

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 40 | 0.00 | 0.00 | 0.00 | 0.000 | 0.078 | -0.075 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : TINSEL @ TOP no ice 90 degs
LOAD CASES : 4
NODE LIST : 268-270

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 61 | 0.00 | 0.00 | 0.00 | 0.014 | 0.000 | -0.010 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : WHIP @ 180 no ice 90 deg
LOAD CASES : 4
NODE LIST : 268

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 62 | 0.00 | 0.00 | 0.00 | 0.101 | 0.000 | -0.075 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : WHIP @ 180 no ice 90 deg
LOAD CASES : 4
NODE LIST : 270

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 63 | 0.00 | 0.00 | 0.00 | 0.050 | 0.000 | -0.050 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : WHIP @ 178 ICE 90 DEGREES
LOAD CASES : 4
NODE LIST : 262,263

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 64 | 0.00 | 0.00 | 0.00 | 0.065 | 0.000 | -0.050 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : WHIP @ 150 no ice 90 deg
LOAD CASES : 4
NODE LIST : 221,222

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 65 | 0.00 | 0.00 | 0.00 | 0.401 | 0.000 | -0.100 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : DIPOLE @ 133 no ice 90 degrees
LOAD CASES : 4
NODE LIST : 195

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 67 | 0.00 | 0.00 | 0.00 | 0.028 | 0.000 | -0.050 | 0.000 | 0.000 | 0.014 |

DESCRIPTION : WHIP @ 112 no ice 90 deg
LOAD CASES : 4
NODE LIST : 164

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 68 | 0.00 | 0.00 | 0.00 | 0.309 | 0.000 | -0.150 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : DIPOLE @ 109 no ice 90 deg
LOAD CASES : 4
NODE LIST : 162

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 69 | 0.00 | 0.00 | 0.00 | 0.195 | 0.000 | -0.075 | 0.000 | 0.000 | 0.195 |

DESCRIPTION : YAGI @ 81 no ice 90 deg
LOAD CASES : 4
NODE LIST : 120

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 70 | 0.00 | 0.00 | 0.00 | 0.078 | 0.000 | -0.075 | 0.000 | 0.000 | 0.156 |

DESCRIPTION : ANEMOMETER @ 57 no ice 90 deg
LOAD CASES : 4
NODE LIST : 79

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 71 | 0.00 | 0.00 | 0.00 | 0.008 | 0.000 | -0.025 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : DIPOLE @ 35 no ice 90 deg
LOAD CASES : 4
NODE LIST : 46

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 0.00 | 0.00 | 0.00 | 0.019 | 0.000 | -0.050 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : DISH @ 173 no ice 90 deg
LOAD CASES : 4
NODE LIST : 255

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 73 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | -1.000 | 0.000 | 0.000 | 0.563 |

DESCRIPTION : (9) DB980 @ 125'
LOAD CASES : 6
NODE LIST : 184-186

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 102 | 0.00 | 0.00 | 0.00 | 0.000 | 0.454 | -0.220 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (9) DB980 @ 125' 90 deg
LOAD CASES : 8
NODE LIST : 184-186

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 105 | 0.00 | 0.00 | 0.00 | 0.454 | 0.000 | -0.220 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (2) RR90-17@ 163 w/ no ice
LOAD CASES : 6
NODE LIST : 241-242

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 203 | 0.00 | 0.00 | 0.00 | 0.000 | 0.122 | -0.050 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (1)RR90-17 @ 163 no ice
LOAD CASES : 6
NODE LIST : 243

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 204 | 0.00 | 0.00 | 0.00 | 0.000 | 0.240 | -0.150 | 0.000 | 0.000 | -0.720 |

DESCRIPTION : (2)RR90-17 @ 163 90 degrees no ice
LOAD CASES : 8
NODE LIST : 242-243

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 207 | 0.00 | 0.00 | 0.00 | 0.122 | 0.000 | -0.050 | 0.000 | 0.000 | 0.000 |

DESCRIPTION : (1)RR90-17 @ 163 90 degrees no ice
LOAD CASES : 8
NODE LIST : 241

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 208 | 0.00 | 0.00 | 0.00 | 0.240 | 0.000 | -0.150 | 0.000 | 0.000 | -0.720 |

DESCRIPTION : Whip no ice @ 97
LOAD CASES : 6
NODE LIST : 141

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 301 | 0.00 | 0.00 | 0.00 | 0.000 | 0.102 | -0.100 | 0.000 | 0.000 | 0.306 |

DESCRIPTION : whip no ice 90 degrees @ 97
LOAD CASES : 8
NODE LIST : 141

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 302 | 0.00 | 0.00 | 0.00 | 0.102 | 0.000 | -0.100 | 0.000 | 0.000 | 0.306 |

DESCRIPTION : panel no ice @ 178
LOAD CASES : 6
NODE LIST : 261

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 303 | 0.00 | 0.00 | 0.00 | 0.000 | 0.110 | -0.075 | 0.000 | 0.000 | 0.110 |

DESCRIPTION : panel no ice 90 degrees @ 178
LOAD CASES : 8
NODE LIST : 261

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 304 | 0.00 | 0.00 | 0.00 | 0.110 | 0.000 | -0.075 | 0.000 | 0.000 | 0.110 |

## STRUCTURE LOAD COMBINATIONS

COMB LIST OF FACTORS * CASES

DESCRIPTION : Wind + Dead Loads
6 1*2,1*6,1*9

DESCRIPTION : Wind + Dead Loads, 90 DEGREES
8 1*4,1*8,1*9

## P-D E L T A  A N A L Y S I S  R E S U L T S

### N O D A L  D I S P L A C E M E N T S

(* Indicates Displacements Occur in Nodal Local System)

| NODE NO | LOAD COMB | DX | DY | DZ | OX | OY | OZ |
|---|---|---|---|---|---|---|---|
| Units: | | In | In | In | Deg | Deg | Deg |
| 1 | 6 | 0.0050 | 0.1249 | -0.0743 | -0.1553 | -0.0052 | -0.0149 |
| | 8 | -0.0804 | 0.0171 | -0.0304 | -0.0538 | 0.0246 | 0.3812 |
| 2 | 6 | 0.0001 | 0.1128 | -0.0051 | -0.0950 | 0.0430 | -0.0164 |
| | 8 | 0.1576 | 0.1467 | -0.0480 | -0.0326 | 0.1421 | 0.3820 |
| 3 | 6 | -0.0084 | 0.1240 | -0.0057 | -0.0945 | -0.0379 | -0.0158 |
| | 8 | 0.1500 | -0.1244 | 0.0015 | 0.0560 | 0.0556 | 0.3818 |
| 4 | 6 | 0.0048 | 0.1282 | -0.0748 | -0.1475 | -0.0057 | -0.0148 |
| | 8 | -0.0799 | 0.0181 | -0.0308 | -0.0460 | 0.0247 | 0.3831 |
| 5 | 6 | 0.0008 | 0.1152 | -0.0055 | -0.1010 | 0.0357 | -0.0162 |
| | 8 | 0.1607 | 0.1476 | -0.0484 | -0.0369 | 0.1355 | 0.3840 |
| 6 | 6 | -0.0089 | 0.1264 | -0.0062 | -0.0992 | -0.0294 | -0.0158 |
| | 8 | 0.1515 | -0.1255 | 0.0011 | 0.0517 | 0.0637 | 0.3837 |
| 7 | 6 | 0.0011 | 0.1883 | -0.0844 | -0.1056 | -0.0032 | -0.0141 |
| | 8 | -0.0656 | 0.0255 | -0.0397 | -0.0001 | 0.0367 | 0.4241 |
| 8 | 6 | 0.0048 | 0.1781 | -0.0162 | -0.1308 | -0.0101 | -0.0135 |
| | 8 | 0.2122 | 0.1743 | -0.0567 | -0.0509 | 0.0784 | 0.4255 |
| 9 | 6 | -0.0085 | 0.1838 | -0.0170 | -0.1191 | 0.0075 | -0.0157 |
| | 8 | 0.1997 | -0.1409 | -0.0083 | 0.0147 | 0.1064 | 0.4251 |
| 10 | 6 | 0.0028 | 0.2421 | -0.0937 | -0.1086 | 0.0068 | -0.0141 |
| | 8 | -0.0438 | 0.0271 | -0.0491 | -0.0084 | 0.0462 | 0.4624 |
| 11 | 6 | -0.0012 | 0.2384 | -0.0271 | -0.1056 | -0.0054 | -0.0131 |
| | 8 | 0.2484 | 0.1948 | -0.0656 | -0.0319 | 0.0759 | 0.4637 |
| 12 | 6 | -0.0088 | 0.2434 | -0.0277 | -0.1199 | -0.0020 | -0.0168 |
| | 8 | 0.2487 | -0.1447 | -0.0186 | 0.0064 | 0.0820 | 0.4634 |
| 13 | 6 | 0.0059 | 0.2977 | -0.1028 | -0.1097 | 0.0042 | -0.0162 |
| | 8 | -0.0214 | 0.0347 | -0.0580 | -0.0180 | 0.0429 | 0.4977 |
| 14 | 6 | -0.0006 | 0.2877 | -0.0380 | -0.0994 | -0.0009 | -0.0142 |
| | 8 | 0.2900 | 0.2099 | -0.0736 | -0.0287 | 0.0808 | 0.4987 |
| 15 | 6 | -0.0099 | 0.3033 | -0.0386 | -0.1109 | -0.0079 | -0.0184 |
| | 8 | 0.2845 | -0.1488 | -0.0283 | 0.0099 | 0.0697 | 0.4985 |
| 16 | 6 | 0.0066 | 0.3521 | -0.1117 | -0.1053 | -0.0023 | -0.0164 |
| | 8 | -0.0008 | 0.0427 | -0.0673 | -0.0097 | 0.0392 | 0.5324 |
| 17 | 6 | -0.0027 | 0.3400 | -0.0489 | -0.1016 | 0.0000 | -0.0152 |
| | 8 | 0.3278 | 0.2259 | -0.0823 | -0.0338 | 0.0734 | 0.5336 |
| 18 | 6 | -0.0153 | 0.3554 | -0.0495 | -0.1016 | -0.0038 | -0.0196 |
| | 8 | 0.3218 | -0.1530 | -0.0387 | 0.0063 | 0.0739 | 0.5329 |
| 19 | 6 | 0.0036 | 0.4026 | -0.1207 | -0.0919 | -0.0089 | -0.0158 |
| | 8 | 0.0158 | 0.0448 | -0.0760 | -0.0007 | 0.0230 | 0.5688 |
| 20 | 6 | -0.0010 | 0.3902 | -0.0598 | -0.1037 | -0.0022 | -0.0143 |
| | 8 | 0.3643 | 0.2455 | -0.0903 | -0.0428 | 0.0675 | 0.5701 |
| 21 | 6 | -0.0115 | 0.4057 | -0.0604 | -0.0924 | 0.0146 | -0.0183 |
| | 8 | 0.3594 | -0.1563 | -0.0485 | 0.0117 | 0.0801 | 0.5693 |
| 22 | 6 | 0.0003 | 0.4458 | -0.1295 | -0.0844 | 0.0011 | -0.0148 |
| | 8 | 0.0196 | 0.0479 | -0.0853 | -0.0196 | -0.0072 | 0.6079 |
| 23 | 6 | -0.0051 | 0.4423 | -0.0707 | -0.0916 | -0.0061 | -0.0139 |
| | 8 | 0.3973 | 0.2703 | -0.0990 | -0.0524 | 0.0728 | 0.6084 |
| 24 | 6 | -0.0055 | 0.4490 | -0.0713 | -0.0862 | 0.0019 | -0.0166 |
| | 8 | 0.4005 | -0.1679 | -0.0588 | 0.0389 | 0.0702 | 0.6079 |
| 25 | 6 | 0.0008 | 0.4567 | -0.1318 | -0.0881 | 0.0068 | -0.0154 |
| | 8 | 0.0184 | 0.0510 | -0.0876 | -0.0259 | -0.0047 | 0.6179 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 26 | 6 | -0.0056 | 0.4534 | -0.0735 | -0.0831 | -0.0012 | -0.0145 |
| | 8 | 0.4071 | 0.2771 | -0.1011 | -0.0478 | 0.0782 | 0.6182 |
| 27 | 6 | -0.0058 | 0.4603 | -0.0741 | -0.0921 | -0.0059 | -0.0172 |
| | 8 | 0.4090 | -0.1731 | -0.0613 | 0.0393 | 0.0613 | 0.6179 |
| 28 | 6 | 0.0010 | 0.4589 | -0.1322 | -0.0895 | 0.0077 | -0.0156 |
| | 8 | 0.0183 | 0.0517 | -0.0880 | -0.0259 | -0.0011 | 0.6198 |
| 29 | 6 | -0.0056 | 0.4554 | -0.0740 | -0.0819 | -0.0001 | -0.0146 |
| | 8 | 0.4090 | 0.2783 | -0.1016 | -0.0450 | 0.0783 | 0.6201 |
| 30 | 6 | -0.0060 | 0.4626 | -0.0746 | -0.0936 | -0.0072 | -0.0173 |
| | 8 | 0.4105 | -0.1741 | -0.0618 | 0.0366 | 0.0597 | 0.6198 |
| 31 | 6 | 0.0066 | 0.5073 | -0.1412 | -0.0935 | 0.0090 | -0.0210 |
| | 8 | 0.0297 | 0.0629 | -0.0966 | -0.0130 | 0.0366 | 0.6492 |
| 32 | 6 | -0.0037 | 0.4936 | -0.0849 | -0.0791 | -0.0009 | -0.0193 |
| | 8 | 0.4451 | 0.2929 | -0.1098 | -0.0214 | 0.0583 | 0.6493 |
| 33 | 6 | -0.0135 | 0.5122 | -0.0854 | -0.0949 | -0.0161 | -0.0228 |
| | 8 | 0.4368 | -0.1825 | -0.0714 | 0.0027 | 0.0551 | 0.6493 |
| 34 | 6 | 0.0087 | 0.5505 | -0.1503 | -0.0809 | 0.0000 | -0.0251 |
| | 8 | 0.0481 | 0.0657 | -0.1058 | -0.0035 | 0.0330 | 0.6740 |
| 35 | 6 | -0.0065 | 0.5357 | -0.0956 | -0.0815 | -0.0025 | -0.0238 |
| | 8 | 0.4694 | 0.3054 | -0.1187 | -0.0261 | 0.0499 | 0.6743 |
| 36 | 6 | -0.0183 | 0.5568 | -0.0961 | -0.0869 | 0.0007 | -0.0279 |
| | 8 | 0.4671 | -0.1813 | -0.0812 | -0.0007 | 0.0568 | 0.6744 |
| 37 | 6 | 0.0079 | 0.5903 | -0.1596 | -0.0781 | -0.0011 | -0.0285 |
| | 8 | 0.0615 | 0.0695 | -0.1144 | -0.0098 | 0.0222 | 0.6973 |
| 38 | 6 | -0.0057 | 0.5748 | -0.1063 | -0.0791 | -0.0016 | -0.0267 |
| | 8 | 0.4971 | 0.3190 | -0.1274 | -0.0253 | 0.0538 | 0.6976 |
| 39 | 6 | -0.0151 | 0.5993 | -0.1067 | -0.0770 | 0.0030 | -0.0305 |
| | 8 | 0.4931 | -0.1833 | -0.0906 | 0.0079 | 0.0531 | 0.6978 |
| 40 | 6 | 0.0084 | 0.6293 | -0.1691 | -0.0751 | 0.0027 | -0.0302 |
| | 8 | 0.0718 | 0.0747 | -0.1236 | -0.0095 | 0.0216 | 0.7198 |
| 41 | 6 | -0.0082 | 0.6149 | -0.1167 | -0.0739 | -0.0022 | -0.0293 |
| | 8 | 0.5221 | 0.3314 | -0.1368 | -0.0229 | 0.0497 | 0.7199 |
| 42 | 6 | -0.0162 | 0.6358 | -0.1172 | -0.0750 | -0.0007 | -0.0323 |
| | 8 | 0.5209 | -0.1873 | -0.0999 | 0.0075 | 0.0509 | 0.7204 |
| 43 | 6 | 0.0100 | 0.6662 | -0.1790 | -0.0726 | 0.0022 | -0.0320 |
| | 8 | 0.0842 | 0.0802 | -0.1321 | -0.0125 | 0.0296 | 0.7410 |
| 44 | 6 | -0.0077 | 0.6497 | -0.1271 | -0.0709 | -0.0020 | -0.0316 |
| | 8 | 0.5473 | 0.3433 | -0.1462 | -0.0228 | 0.0473 | 0.7412 |
| 45 | 6 | -0.0164 | 0.6754 | -0.1274 | -0.0767 | -0.0073 | -0.0334 |
| | 8 | 0.5441 | -0.1901 | -0.1086 | 0.0040 | 0.0460 | 0.7415 |
| 46 | 6 | 0.0091 | 0.7039 | -0.1893 | -0.0784 | -0.0079 | -0.0318 |
| | 8 | 0.1011 | 0.0857 | -0.1412 | -0.0036 | 0.0358 | 0.7609 |
| 47 | 6 | -0.0094 | 0.6867 | -0.1372 | -0.0708 | 0.0023 | -0.0335 |
| | 8 | 0.5718 | 0.3556 | -0.1562 | -0.0246 | 0.0585 | 0.7620 |
| 48 | 6 | -0.0220 | 0.7138 | -0.1376 | -0.0817 | -0.0033 | -0.0342 |
| | 8 | 0.5682 | -0.1906 | -0.1172 | -0.0011 | 0.0469 | 0.7618 |
| 49 | 6 | 0.0034 | 0.7432 | -0.2000 | -0.0715 | -0.0099 | -0.0313 |
| | 8 | 0.1169 | 0.0846 | -0.1495 | 0.0035 | 0.0225 | 0.7808 |
| 50 | 6 | -0.0066 | 0.7223 | -0.1472 | -0.0781 | -0.0024 | -0.0334 |
| | 8 | 0.6038 | 0.3689 | -0.1665 | -0.0259 | 0.0550 | 0.7830 |
| 51 | 6 | -0.0172 | 0.7551 | -0.1474 | -0.0706 | 0.0166 | -0.0326 |
| | 8 | 0.5935 | -0.1902 | -0.1252 | 0.0041 | 0.0612 | 0.7835 |
| 52 | 6 | 0.0032 | 0.7708 | -0.2112 | -0.0348 | 0.0142 | -0.0309 |
| | 8 | 0.1198 | 0.0869 | -0.1585 | -0.0189 | -0.0134 | 0.8031 |
| 53 | 6 | -0.0115 | 0.7601 | -0.1566 | -0.0546 | -0.0067 | -0.0350 |
| | 8 | 0.6205 | 0.3821 | -0.1774 | -0.0230 | 0.0123 | 0.8027 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 54 | 6 | -0.0115 | 0.7804 | -0.1570 | -0.0313 | -0.0027 | -0.0288 |
| | 8 | 0.6232 | -0.1972 | -0.1327 | 0.0282 | 0.0356 | 0.8059 |
| 55 | 6 | 0.0056 | 0.7748 | -0.2141 | -0.0373 | 0.0210 | -0.0319 |
| | 8 | 0.1177 | 0.0899 | -0.1607 | -0.0243 | -0.0105 | 0.8078 |
| 56 | 6 | -0.0120 | 0.7662 | -0.1590 | -0.0458 | -0.0013 | -0.0361 |
| | 8 | 0.6217 | 0.3848 | -0.1803 | -0.0168 | 0.0158 | 0.8070 |
| 57 | 6 | -0.0125 | 0.7842 | -0.1594 | -0.0360 | -0.0103 | -0.0285 |
| | 8 | 0.6268 | -0.2011 | -0.1345 | 0.0287 | 0.0261 | 0.8116 |
| 58 | 6 | 0.0061 | 0.7758 | -0.2147 | -0.0422 | 0.0214 | -0.0321 |
| | 8 | 0.1174 | 0.0905 | -0.1611 | -0.0238 | -0.0060 | 0.8087 |
| 59 | 6 | -0.0120 | 0.7674 | -0.1594 | -0.0464 | -0.0006 | -0.0363 |
| | 8 | 0.6221 | 0.3852 | -0.1808 | -0.0141 | 0.0205 | 0.8078 |
| 60 | 6 | -0.0128 | 0.7851 | -0.1598 | -0.0404 | -0.0104 | -0.0285 |
| | 8 | 0.6275 | -0.2018 | -0.1349 | 0.0262 | 0.0275 | 0.8128 |
| 61 | 6 | 0.0155 | 0.8135 | -0.2266 | -0.0893 | 0.0094 | -0.0381 |
| | 8 | 0.1314 | 0.0992 | -0.1694 | -0.0056 | 0.0511 | 0.8209 |
| 62 | 6 | -0.0107 | 0.7949 | -0.1688 | -0.0676 | -0.0010 | -0.0455 |
| | 8 | 0.6475 | 0.3863 | -0.1923 | -0.0014 | 0.0637 | 0.8179 |
| 63 | 6 | -0.0186 | 0.8204 | -0.1688 | -0.0869 | -0.0102 | -0.0283 |
| | 8 | 0.6476 | -0.2061 | -0.1417 | -0.0036 | 0.0547 | 0.8282 |
| 64 | 6 | 0.0152 | 0.8568 | -0.2391 | -0.0827 | -0.0063 | -0.0415 |
| | 8 | 0.1609 | 0.0981 | -0.1783 | 0.0037 | 0.0609 | 0.8289 |
| 65 | 6 | -0.0126 | 0.8333 | -0.1775 | -0.0796 | -0.0008 | -0.0550 |
| | 8 | 0.6799 | 0.3920 | -0.2045 | -0.0162 | 0.0684 | 0.8260 |
| 66 | 6 | -0.0215 | 0.8662 | -0.1778 | -0.0937 | 0.0008 | -0.0279 |
| | 8 | 0.6790 | -0.2022 | -0.1479 | -0.0049 | 0.0636 | 0.8423 |
| 67 | 6 | 0.0125 | 0.8980 | -0.2525 | -0.0848 | -0.0018 | -0.0438 |
| | 8 | 0.1907 | 0.0991 | -0.1865 | -0.0034 | 0.0589 | 0.8353 |
| 68 | 6 | -0.0117 | 0.8749 | -0.1862 | -0.0909 | -0.0021 | -0.0648 |
| | 8 | 0.7157 | 0.4005 | -0.2174 | -0.0116 | 0.0710 | 0.8340 |
| 69 | 6 | -0.0193 | 0.9121 | -0.1861 | -0.0851 | 0.0027 | -0.0223 |
| | 8 | 0.7119 | -0.2023 | -0.1536 | 0.0051 | 0.0749 | 0.8567 |
| 70 | 6 | 0.0137 | 0.9435 | -0.2665 | -0.0952 | 0.0049 | -0.0433 |
| | 8 | 0.2220 | 0.1010 | -0.1953 | -0.0029 | 0.0682 | 0.8413 |
| 71 | 6 | -0.0139 | 0.9238 | -0.1941 | -0.0959 | 0.0001 | -0.0778 |
| | 8 | 0.7522 | 0.4043 | -0.2309 | -0.0030 | 0.0792 | 0.8390 |
| 72 | 6 | -0.0192 | 0.9543 | -0.1943 | -0.0909 | 0.0014 | -0.0126 |
| | 8 | 0.7539 | -0.2050 | -0.1584 | 0.0067 | 0.0834 | 0.8737 |
| 73 | 6 | 0.0163 | 0.9937 | -0.2815 | -0.1052 | 0.0030 | -0.0447 |
| | 8 | 0.2616 | 0.1041 | -0.2035 | -0.0067 | 0.0923 | 0.8436 |
| 74 | 6 | -0.0115 | 0.9705 | -0.2021 | -0.0942 | 0.0016 | -0.0947 |
| | 8 | 0.7959 | 0.4062 | -0.2453 | -0.0035 | 0.0917 | 0.8435 |
| 75 | 6 | -0.0202 | 1.0055 | -0.2018 | -0.1096 | -0.0126 | 0.0041 |
| | 8 | 0.7945 | -0.2067 | -0.1626 | -0.0002 | 0.0825 | 0.8927 |
| 76 | 6 | 0.0152 | 1.0511 | -0.2972 | -0.1255 | -0.0094 | -0.0396 |
| | 8 | 0.3161 | 0.1057 | -0.2122 | 0.0098 | 0.1217 | 0.8449 |
| 77 | 6 | -0.0148 | 1.0202 | -0.2091 | -0.1042 | -0.0149 | -0.1197 |
| | 8 | 0.8476 | 0.4101 | -0.2604 | -0.0082 | 0.1225 | 0.8448 |
| 78 | 6 | -0.0285 | 1.0678 | -0.2092 | -0.1455 | -0.0036 | 0.0273 |
| | 8 | 0.8400 | -0.2011 | -0.1659 | -0.0214 | 0.1028 | 0.9180 |
| 79 | 6 | 0.0083 | 1.1180 | -0.3139 | -0.1323 | -0.0127 | -0.0349 |
| | 8 | 0.3782 | 0.0970 | -0.2203 | 0.0198 | 0.1136 | 0.8424 |
| 80 | 6 | -0.0248 | 1.0815 | -0.2161 | -0.1525 | -0.0219 | -0.1462 |
| | 8 | 0.9156 | 0.4153 | -0.2766 | -0.0091 | 0.1307 | 0.8505 |
| 81 | 6 | -0.0190 | 1.1450 | -0.2158 | -0.1368 | 0.0358 | 0.0691 |
| | 8 | 0.9042 | -0.1892 | -0.1686 | -0.0074 | 0.1614 | 0.9572 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 82 | 6 | 0.0029 | 1.1741 | -0.3317 | -0.0806 | -0.0107 | -0.0215 |
| | 8 | 0.4214 | 0.0953 | -0.2290 | -0.0248 | 0.0506 | 0.8472 |
| 83 | 6 | -0.0155 | 1.1592 | -0.2221 | -0.1116 | 0.0979 | -0.1859 |
| | 8 | 0.9699 | 0.4218 | -0.2934 | -0.0115 | 0.0824 | 0.8496 |
| 84 | 6 | -0.0083 | 1.1885 | -0.2222 | -0.0241 | -0.0259 | 0.1344 |
| | 8 | 0.9719 | -0.2070 | -0.1699 | 0.1010 | 0.0321 | 1.0181 |
| 85 | 6 | 0.0017 | 1.1845 | -0.3364 | -0.1148 | -0.0037 | -0.0171 |
| | 8 | 0.4272 | 0.1016 | -0.2311 | -0.0978 | 0.0564 | 0.8463 |
| 86 | 6 | 0.0029 | 1.1711 | -0.2236 | -0.0833 | 0.2125 | -0.2062 |
| | 8 | 0.9809 | 0.4231 | -0.2979 | 0.0038 | 0.1175 | 0.8495 |
| 87 | 6 | -0.0160 | 1.1886 | -0.2237 | 0.0226 | -0.1224 | 0.1656 |
| | 8 | 0.9700 | -0.2243 | -0.1701 | 0.1844 | -0.0694 | 1.0472 |
| 88 | 6 | 0.0017 | 1.1876 | -0.3373 | -0.1366 | -0.0004 | -0.0162 |
| | 8 | 0.4286 | 0.1043 | -0.2316 | -0.1238 | 0.0650 | 0.8461 |
| 89 | 6 | 0.0086 | 1.1731 | -0.2239 | -0.0816 | 0.2458 | -0.2101 |
| | 8 | 0.9839 | 0.4230 | -0.2987 | 0.0113 | 0.1378 | 0.8495 |
| 90 | 6 | -0.0194 | 1.1879 | -0.2240 | 0.0321 | -0.1542 | 0.1717 |
| | 8 | 0.9681 | -0.2291 | -0.1702 | 0.2084 | -0.0909 | 1.0530 |
| 91 | 6 | 0.0086 | 1.3023 | -0.3549 | -0.2761 | 0.0127 | -0.0141 |
| | 8 | 0.5061 | 0.1071 | -0.2391 | 0.0572 | 0.2433 | 0.8713 |
| 92 | 6 | 0.0312 | 1.3130 | -0.2281 | -0.3366 | -0.0573 | -0.1251 |
| | 8 | 1.0944 | 0.4139 | -0.3153 | 0.0177 | 0.2720 | 0.8731 |
| 93 | 6 | 0.0003 | 1.2610 | -0.2287 | -0.2724 | 0.0936 | 0.1294 |
| | 8 | 1.1017 | -0.2704 | -0.1694 | -0.0019 | 0.3915 | 1.0236 |
| 94 | 6 | 0.0084 | 1.4427 | -0.3706 | -0.2752 | -0.0087 | -0.0047 |
| | 8 | 0.6563 | 0.0844 | -0.2457 | 0.0232 | 0.3243 | 0.8873 |
| 95 | 6 | 0.0059 | 1.4570 | -0.2342 | -0.2470 | -0.0240 | -0.0778 |
| | 8 | 1.2398 | 0.4137 | -0.3308 | -0.0044 | 0.2948 | 0.8852 |
| 96 | 6 | 0.0187 | 1.4222 | -0.2336 | -0.3334 | -0.0122 | 0.0899 |
| | 8 | 1.2654 | -0.2511 | -0.1711 | -0.0351 | 0.2652 | 0.9985 |
| 97 | 6 | 0.0030 | 1.5813 | -0.3841 | -0.2774 | -0.0094 | -0.0057 |
| | 8 | 0.8187 | 0.0871 | -0.2536 | -0.0067 | 0.3137 | 0.8903 |
| 98 | 6 | 0.0069 | 1.5773 | -0.2400 | -0.2546 | 0.0063 | -0.0531 |
| | 8 | 1.3887 | 0.4189 | -0.3436 | -0.0027 | 0.2921 | 0.8922 |
| 99 | 6 | 0.0017 | 1.5823 | -0.2407 | -0.2970 | -0.0350 | 0.0596 |
| | 8 | 1.3869 | -0.2393 | -0.1739 | -0.0065 | 0.2533 | 0.9701 |
| 100 | 6 | 0.0013 | 1.7252 | -0.3955 | -0.2905 | 0.0015 | -0.0040 |
| | 8 | 0.9736 | 0.0893 | -0.2601 | 0.0094 | 0.3032 | 0.8903 |
| 101 | 6 | 0.0061 | 1.7194 | -0.2480 | -0.2936 | -0.0019 | -0.0387 |
| | 8 | 1.5360 | 0.4177 | -0.3550 | 0.0150 | 0.2979 | 0.8903 |
| 102 | 6 | -0.0078 | 1.7269 | -0.2477 | -0.2880 | 0.0024 | 0.0361 |
| | 8 | 1.5315 | -0.2371 | -0.1793 | 0.0049 | 0.3047 | 0.9498 |
| 103 | 6 | 0.0031 | 1.8732 | -0.4049 | -0.2919 | 0.0057 | -0.0064 |
| | 8 | 1.1271 | 0.0831 | -0.2679 | 0.0189 | 0.3048 | 0.8845 |
| 104 | 6 | 0.0067 | 1.8673 | -0.2561 | -0.2936 | -0.0008 | -0.0252 |
| | 8 | 1.6899 | 0.4100 | -0.3641 | 0.0232 | 0.3002 | 0.8869 |
| 105 | 6 | -0.0010 | 1.8752 | -0.2568 | -0.2891 | 0.0081 | 0.0223 |
| | 8 | 1.6867 | -0.2378 | -0.1862 | 0.0097 | 0.3084 | 0.9381 |
| 106 | 6 | 0.0078 | 2.0181 | -0.4124 | -0.2779 | 0.0118 | -0.0060 |
| | 8 | 1.2804 | 0.0792 | -0.2743 | 0.0050 | 0.2996 | 0.8781 |
| 107 | 6 | 0.0055 | 2.0146 | -0.2661 | -0.2830 | 0.0036 | -0.0168 |
| | 8 | 1.8365 | 0.3991 | -0.3717 | 0.0266 | 0.2838 | 0.8777 |
| 108 | 6 | -0.0029 | 2.0158 | -0.2657 | -0.2730 | -0.0055 | 0.0136 |
| | 8 | 1.8403 | -0.2433 | -0.1954 | 0.0242 | 0.2909 | 0.9316 |
| 109 | 6 | 0.0118 | 2.1544 | -0.4180 | -0.2645 | -0.0002 | -0.0067 |
| | 8 | 1.4303 | 0.0788 | -0.2821 | 0.0129 | 0.2975 | 0.8666 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 110 | 6 | 0.0093 | 2.1544 | -0.2760 | -0.2805 | -0.0001 | -0.0098 |
| | 8 | 1.9789 | 0.3896 | -0.3772 | 0.0176 | 0.2766 | 0.8669 |
| 111 | 6 | -0.0024 | 2.1530 | -0.2766 | -0.2681 | 0.0053 | 0.0101 |
| | 8 | 1.9828 | -0.2537 | -0.2059 | 0.0163 | 0.2870 | 0.9287 |
| 112 | 6 | 0.0062 | 2.2919 | -0.4217 | -0.2881 | -0.0230 | -0.0041 |
| | 8 | 1.5868 | 0.0687 | -0.2884 | 0.0370 | 0.3288 | 0.8498 |
| 113 | 6 | 0.0047 | 2.2968 | -0.2877 | -0.2683 | -0.0063 | -0.0044 |
| | 8 | 2.1224 | 0.3821 | -0.3812 | 0.0265 | 0.3067 | 0.8518 |
| 114 | 6 | 0.0019 | 2.2912 | -0.2873 | -0.2926 | 0.0129 | 0.0062 |
| | 8 | 2.1318 | -0.2470 | -0.2184 | -0.0400 | 0.2890 | 0.9293 |
| 115 | 6 | 0.0030 | 2.3291 | -0.4224 | -0.2846 | -0.0234 | -0.0038 |
| | 8 | 1.6294 | 0.0643 | -0.2901 | 0.0363 | 0.3278 | 0.8436 |
| 116 | 6 | 0.0043 | 2.3302 | -0.2906 | -0.2523 | 0.0010 | -0.0043 |
| | 8 | 2.1625 | 0.3788 | -0.3820 | 0.0303 | 0.3079 | 0.8461 |
| 117 | 6 | 0.0036 | 2.3293 | -0.2903 | -0.2957 | 0.0092 | 0.0059 |
| | 8 | 2.1679 | -0.2404 | -0.2217 | -0.0450 | 0.2709 | 0.9326 |
| 118 | 6 | 0.0024 | 2.3363 | -0.4225 | -0.2786 | -0.0217 | -0.0037 |
| | 8 | 1.6376 | 0.0636 | -0.2905 | 0.0339 | 0.3232 | 0.8424 |
| 119 | 6 | 0.0043 | 2.3365 | -0.2912 | -0.2481 | 0.0028 | -0.0043 |
| | 8 | 2.1702 | 0.3782 | -0.3821 | 0.0296 | 0.3020 | 0.8449 |
| 120 | 6 | 0.0038 | 2.3367 | -0.2908 | -0.2919 | 0.0062 | 0.0059 |
| | 8 | 2.1747 | -0.2392 | -0.2224 | -0.0413 | 0.2640 | 0.9333 |
| 121 | 6 | -0.0011 | 2.4548 | -0.4247 | -0.2027 | 0.0049 | -0.0057 |
| | 8 | 1.7806 | 0.0567 | -0.2976 | 0.0088 | 0.2488 | 0.8136 |
| 122 | 6 | 0.0090 | 2.4470 | -0.3025 | -0.2075 | 0.0026 | -0.0039 |
| | 8 | 2.2968 | 0.3648 | -0.3846 | 0.0340 | 0.2058 | 0.8227 |
| 123 | 6 | -0.0027 | 2.4635 | -0.3025 | -0.2097 | -0.0216 | 0.0055 |
| | 8 | 2.2851 | -0.2312 | -0.2356 | 0.0094 | 0.2029 | 0.8882 |
| 124 | 6 | 0.0043 | 2.5503 | -0.4263 | -0.1843 | 0.0105 | -0.0067 |
| | 8 | 1.8954 | 0.0536 | -0.3037 | 0.0164 | 0.2140 | 0.7897 |
| 125 | 6 | 0.0063 | 2.5498 | -0.3144 | -0.1922 | -0.0013 | -0.0061 |
| | 8 | 2.3901 | 0.3452 | -0.3861 | 0.0468 | 0.1825 | 0.7952 |
| 126 | 6 | -0.0097 | 2.5561 | -0.3140 | -0.1765 | 0.0033 | 0.0105 |
| | 8 | 2.3883 | -0.2382 | -0.2492 | 0.0177 | 0.1983 | 0.8539 |
| 127 | 6 | 0.0070 | 2.6419 | -0.4274 | -0.1746 | 0.0009 | -0.0101 |
| | 8 | 2.0004 | 0.0426 | -0.3106 | 0.0279 | 0.2030 | 0.7615 |
| 128 | 6 | 0.0088 | 2.6400 | -0.3262 | -0.1732 | 0.0014 | -0.0051 |
| | 8 | 2.4841 | 0.3223 | -0.3874 | 0.0466 | 0.1771 | 0.7676 |
| 129 | 6 | -0.0021 | 2.6450 | -0.3260 | -0.1669 | 0.0117 | 0.0221 |
| | 8 | 2.4826 | -0.2429 | -0.2637 | 0.0069 | 0.1797 | 0.8296 |
| 130 | 6 | 0.0065 | 2.7245 | -0.4282 | -0.1514 | -0.0018 | -0.0098 |
| | 8 | 2.1006 | 0.0304 | -0.3167 | 0.0270 | 0.1910 | 0.7326 |
| 131 | 6 | 0.0073 | 2.7244 | -0.3383 | -0.1525 | 0.0018 | -0.0061 |
| | 8 | 2.5665 | 0.3003 | -0.3879 | 0.0447 | 0.1526 | 0.7362 |
| 132 | 6 | -0.0011 | 2.7233 | -0.3379 | -0.1505 | 0.0008 | 0.0387 |
| | 8 | 2.5680 | -0.2435 | -0.2782 | 0.0023 | 0.1506 | 0.8113 |
| 133 | 6 | 0.0055 | 2.7950 | -0.4288 | -0.1288 | -0.0016 | -0.0122 |
| | 8 | 2.1921 | 0.0173 | -0.3235 | 0.0282 | 0.1688 | 0.6985 |
| 134 | 6 | 0.0106 | 2.7937 | -0.3503 | -0.1319 | 0.0012 | -0.0050 |
| | 8 | 2.6385 | 0.2784 | -0.3883 | 0.0451 | 0.1264 | 0.7045 |
| 135 | 6 | -0.0009 | 2.7967 | -0.3500 | -0.1332 | -0.0077 | 0.0643 |
| | 8 | 2.6359 | -0.2440 | -0.2933 | 0.0051 | 0.1301 | 0.8019 |
| 136 | 6 | 0.0050 | 2.8554 | -0.4292 | -0.1115 | -0.0025 | -0.0093 |
| | 8 | 2.2702 | 0.0053 | -0.3295 | 0.0219 | 0.1370 | 0.6658 |
| 137 | 6 | 0.0087 | 2.8573 | -0.3625 | -0.1104 | 0.0016 | -0.0068 |
| | 8 | 2.6964 | 0.2553 | -0.3881 | 0.0501 | 0.1110 | 0.6674 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 138 | 6 | -0.0067 | 2.8581 | -0.3621 | -0.1183 | -0.0011 | 0.1022 |
| | 8 | 2.6981 | -0.2483 | -0.3083 | 0.0180 | 0.1028 | 0.8045 |
| 139 | 6 | 0.0027 | 2.9064 | -0.4294 | -0.0864 | -0.0048 | -0.0102 |
| | 8 | 2.3319 | -0.0063 | -0.3362 | 0.0350 | 0.1121 | 0.6260 |
| 140 | 6 | 0.0122 | 2.9046 | -0.3746 | -0.0879 | 0.0005 | -0.0006 |
| | 8 | 2.7489 | 0.2281 | -0.3881 | 0.0592 | 0.0815 | 0.6307 |
| 141 | 6 | 0.0004 | 2.9121 | -0.3742 | -0.0787 | 0.0218 | 0.1630 |
| | 8 | 2.7399 | -0.2571 | -0.3240 | 0.0093 | 0.0767 | 0.8254 |
| 142 | 6 | 0.0012 | 2.9412 | -0.4298 | -0.0521 | 0.0009 | -0.0056 |
| | 8 | 2.3925 | -0.0285 | -0.3420 | 0.0485 | 0.1392 | 0.5832 |
| 143 | 6 | 0.0091 | 2.9454 | -0.3866 | -0.0622 | -0.0019 | 0.0020 |
| | 8 | 2.7739 | 0.1924 | -0.3873 | 0.0892 | 0.0175 | 0.5830 |
| 144 | 6 | 0.0088 | 2.9374 | -0.3861 | -0.0384 | 0.0050 | 0.0856 |
| | 8 | 2.7744 | -0.2493 | -0.3390 | -0.0429 | 0.0469 | 0.6999 |
| 145 | 6 | 0.0015 | 2.9475 | -0.4299 | -0.0488 | 0.0040 | -0.0051 |
| | 8 | 2.4111 | -0.0343 | -0.3436 | 0.0433 | 0.1434 | 0.5686 |
| 146 | 6 | 0.0093 | 2.9527 | -0.3896 | -0.0530 | 0.0041 | 0.0046 |
| | 8 | 2.7756 | 0.1804 | -0.3872 | 0.0929 | 0.0137 | 0.5688 |
| 147 | 6 | 0.0089 | 2.9426 | -0.3892 | -0.0441 | -0.0033 | 0.0733 |
| | 8 | 2.7794 | -0.2429 | -0.3429 | -0.0469 | 0.0333 | 0.6742 |
| 148 | 6 | 0.0016 | 2.9487 | -0.4299 | -0.0497 | 0.0046 | -0.0050 |
| | 8 | 2.4147 | -0.0353 | -0.3439 | 0.0413 | 0.1403 | 0.5657 |
| 149 | 6 | 0.0094 | 2.9540 | -0.3902 | -0.0518 | 0.0049 | 0.0051 |
| | 8 | 2.7759 | 0.1781 | -0.3872 | 0.0912 | 0.0161 | 0.5660 |
| 150 | 6 | 0.0088 | 2.9437 | -0.3898 | -0.0462 | -0.0047 | 0.0709 |
| | 8 | 2.7802 | -0.2417 | -0.3437 | -0.0437 | 0.0313 | 0.6692 |
| 151 | 6 | 0.0051 | 2.9745 | -0.4304 | -0.0441 | 0.0056 | -0.0068 |
| | 8 | 2.4714 | -0.0493 | -0.3505 | 0.0255 | 0.0841 | 0.5079 |
| 152 | 6 | 0.0131 | 2.9752 | -0.4022 | -0.0382 | 0.0010 | 0.0161 |
| | 8 | 2.7889 | 0.1377 | -0.3872 | 0.0728 | 0.0218 | 0.5133 |
| 153 | 6 | 0.0020 | 2.9700 | -0.4015 | -0.0470 | -0.0138 | 0.0439 |
| | 8 | 2.7874 | -0.2324 | -0.3596 | 0.0027 | 0.0079 | 0.6027 |
| 154 | 6 | 0.0061 | 2.9900 | -0.4312 | -0.0191 | -0.0011 | -0.0069 |
| | 8 | 2.5036 | -0.0641 | -0.3563 | 0.0367 | 0.0467 | 0.4563 |
| 155 | 6 | 0.0109 | 2.9910 | -0.4138 | -0.0171 | -0.0008 | 0.0266 |
| | 8 | 2.7932 | 0.1012 | -0.3865 | 0.0729 | -0.0050 | 0.4597 |
| 156 | 6 | -0.0008 | 2.9881 | -0.4132 | -0.0292 | 0.0055 | 0.0241 |
| | 8 | 2.7882 | -0.2389 | -0.3744 | 0.0182 | -0.0103 | 0.5529 |
| 157 | 6 | 0.0053 | 2.9946 | -0.4323 | 0.0005 | -0.0008 | -0.0082 |
| | 8 | 2.5219 | -0.0852 | -0.3628 | 0.0443 | 0.0269 | 0.4024 |
| 158 | 6 | 0.0124 | 2.9937 | -0.4254 | -0.0041 | -0.0016 | 0.0435 |
| | 8 | 2.7831 | 0.0642 | -0.3868 | 0.0719 | -0.0381 | 0.4092 |
| 159 | 6 | 0.0027 | 2.9978 | -0.4246 | -0.0015 | -0.0044 | 0.0102 |
| | 8 | 2.7796 | -0.2472 | -0.3900 | 0.0121 | -0.0120 | 0.5190 |
| 160 | 6 | 0.0057 | 2.9895 | -0.4338 | 0.0199 | 0.0023 | -0.0080 |
| | 8 | 2.5321 | -0.1071 | -0.3684 | 0.0431 | 0.0112 | 0.3500 |
| 161 | 6 | 0.0122 | 2.9945 | -0.4366 | 0.0119 | 0.0143 | 0.0662 |
| | 8 | 2.7608 | 0.0274 | -0.3863 | 0.0746 | -0.0374 | 0.3556 |
| 162 | 6 | -0.0026 | 2.9905 | -0.4361 | 0.0219 | 0.0023 | 0.0021 |
| | 8 | 2.7684 | -0.2500 | -0.4045 | -0.0011 | -0.0604 | 0.4993 |
| 163 | 6 | 0.0074 | 2.9746 | -0.4359 | 0.0384 | 0.0033 | -0.0083 |
| | 8 | 2.5333 | -0.1290 | -0.3749 | 0.0441 | -0.0072 | 0.2908 |
| 164 | 6 | 0.0220 | 2.9805 | -0.4478 | 0.0358 | -0.0013 | 0.1009 |
| | 8 | 2.7373 | -0.0132 | -0.3873 | 0.0860 | -0.0878 | 0.3006 |
| 165 | 6 | 0.0041 | 2.9761 | -0.4468 | 0.0407 | 0.0044 | -0.0031 |
| | 8 | 2.7198 | -0.2472 | -0.4197 | -0.0074 | -0.1009 | 0.3896 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 166 | 6 | 0.0076 | 2.9519 | -0.4388 | 0.0488 | -0.0031 | -0.0079 |
| | 8 | 2.5253 | -0.1518 | -0.3805 | 0.0480 | -0.0265 | 0.2327 |
| 167 | 6 | 0.0129 | 2.9579 | -0.4581 | 0.0607 | -0.0061 | 0.0620 |
| | 8 | 2.6753 | -0.0608 | -0.3875 | 0.1002 | -0.1202 | 0.2379 |
| 168 | 6 | 0.0001 | 2.9513 | -0.4576 | 0.0480 | -0.0037 | -0.0066 |
| | 8 | 2.6713 | -0.2455 | -0.4331 | 0.0035 | -0.1066 | 0.2901 |
| 169 | 6 | 0.0052 | 2.9238 | -0.4427 | 0.0670 | -0.0040 | -0.0088 |
| | 8 | 2.5065 | -0.1778 | -0.3869 | 0.0533 | -0.0505 | 0.1693 |
| 170 | 6 | 0.0189 | 2.9209 | -0.4684 | 0.0749 | 0.0069 | 0.0330 |
| | 8 | 2.6209 | -0.1137 | -0.3898 | 0.1060 | -0.1187 | 0.1735 |
| 171 | 6 | 0.0047 | 2.9253 | -0.4675 | 0.0680 | 0.0156 | -0.0100 |
| | 8 | 2.6085 | -0.2494 | -0.4473 | 0.0052 | -0.1333 | 0.1990 |
| 172 | 6 | 0.0058 | 2.8803 | -0.4475 | 0.1072 | 0.0107 | -0.0119 |
| | 8 | 2.4719 | -0.2079 | -0.3925 | 0.0730 | -0.0928 | 0.1068 |
| 173 | 6 | 0.0106 | 2.8798 | -0.4776 | 0.1007 | -0.0391 | 0.0057 |
| | 8 | 2.5426 | -0.1699 | -0.3914 | 0.1181 | -0.1975 | 0.1062 |
| 174 | 6 | 0.0140 | 2.8783 | -0.4772 | 0.1141 | 0.0237 | -0.0123 |
| | 8 | 2.5377 | -0.2444 | -0.4592 | -0.0314 | -0.1462 | 0.1083 |
| 175 | 6 | 0.0075 | 2.8669 | -0.4489 | 0.0822 | 0.0114 | -0.0153 |
| | 8 | 2.4591 | -0.2174 | -0.3940 | 0.0647 | -0.1101 | 0.0899 |
| 176 | 6 | 0.0054 | 2.8665 | -0.4799 | 0.1001 | -0.0329 | -0.0015 |
| | 8 | 2.5173 | -0.1850 | -0.3921 | 0.1109 | -0.1699 | 0.0882 |
| 177 | 6 | 0.0168 | 2.8638 | -0.4796 | 0.1006 | 0.0145 | -0.0153 |
| | 8 | 2.5193 | -0.2404 | -0.4624 | -0.0143 | -0.1348 | 0.0852 |
| 178 | 6 | 0.0078 | 2.8649 | -0.4492 | 0.0675 | 0.0098 | -0.0160 |
| | 8 | 2.4563 | -0.2190 | -0.3943 | 0.0586 | -0.1145 | 0.0865 |
| 179 | 6 | 0.0046 | 2.8639 | -0.4804 | 0.0961 | -0.0273 | -0.0029 |
| | 8 | 2.5131 | -0.1878 | -0.3923 | 0.1061 | -0.1510 | 0.0847 |
| 180 | 6 | 0.0171 | 2.8614 | -0.4800 | 0.0924 | 0.0100 | -0.0159 |
| | 8 | 2.5159 | -0.2401 | -0.4630 | -0.0028 | -0.1289 | 0.0807 |
| 181 | 6 | 0.0094 | 2.8483 | -0.4574 | 0.0651 | 0.0010 | -0.0076 |
| | 8 | 2.4024 | -0.2398 | -0.3960 | 0.0648 | -0.0486 | 0.0819 |
| 182 | 6 | 0.0108 | 2.8301 | -0.4802 | 0.0039 | 0.0276 | -0.0037 |
| | 8 | 2.4638 | -0.2259 | -0.3974 | 0.0199 | -0.0996 | 0.0764 |
| 183 | 6 | 0.0101 | 2.8285 | -0.4799 | 0.0028 | -0.0243 | -0.0061 |
| | 8 | 2.4554 | -0.2718 | -0.4622 | 0.0956 | -0.0947 | 0.0734 |
| 184 | 6 | 0.0103 | 2.8020 | -0.4651 | 0.0349 | 0.0014 | -0.0062 |
| | 8 | 2.3867 | -0.2827 | -0.3978 | 0.0617 | -0.1196 | 0.0729 |
| 185 | 6 | 0.0169 | 2.8380 | -0.4793 | 0.0492 | -0.0213 | -0.0020 |
| | 8 | 2.4028 | -0.2291 | -0.4019 | 0.0715 | -0.1041 | 0.0771 |
| 186 | 6 | 0.0038 | 2.8376 | -0.4789 | 0.0459 | 0.0198 | -0.0117 |
| | 8 | 2.4143 | -0.3123 | -0.4602 | 0.0345 | -0.0901 | 0.0708 |
| 187 | 6 | 0.0104 | 2.8379 | -0.4775 | -0.1482 | -0.0006 | -0.0113 |
| | 8 | 2.2644 | -0.2903 | -0.4013 | -0.0172 | -0.2910 | 0.0824 |
| 188 | 6 | -0.0075 | 2.7627 | -0.4775 | 0.2007 | -0.0442 | -0.0235 |
| | 8 | 2.3727 | -0.3178 | -0.4108 | 0.2407 | -0.0209 | 0.0645 |
| 189 | 6 | 0.0280 | 2.7643 | -0.4769 | 0.1960 | 0.0455 | -0.0078 |
| | 8 | 2.3534 | -0.3061 | -0.4547 | -0.0253 | -0.1557 | 0.0525 |
| 190 | 6 | 0.0121 | 2.8062 | -0.4924 | 0.0614 | 0.0040 | -0.0079 |
| | 8 | 2.3016 | -0.3321 | -0.4066 | 0.0916 | 0.1421 | 0.0705 |
| 191 | 6 | 0.0127 | 2.8202 | -0.4772 | -0.1851 | 0.0460 | -0.0053 |
| | 8 | 2.3362 | -0.2937 | -0.4219 | -0.0925 | -0.0478 | 0.0783 |
| 192 | 6 | 0.0086 | 2.8216 | -0.4765 | -0.1836 | -0.0446 | -0.0145 |
| | 8 | 2.3421 | -0.3601 | -0.4499 | 0.1174 | 0.0332 | 0.0715 |
| 193 | 6 | 0.0130 | 2.8415 | -0.5026 | -0.0840 | 0.0006 | -0.0051 |
| | 8 | 2.2766 | -0.3476 | -0.4107 | 0.0282 | -0.0800 | 0.0853 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 194 | 6 | 0.0130 | 2.8320 | -0.4774 | -0.0020 | -0.0145 | -0.0079 |
| | 8 | 2.3338 | -0.3246 | -0.4288 | 0.0825 | -0.0049 | 0.0815 |
| 195 | 6 | 0.0092 | 2.8341 | -0.4767 | -0.0040 | 0.0164 | -0.0008 |
| | 8 | 2.3286 | -0.3816 | -0.4473 | 0.0247 | -0.0315 | 0.0827 |
| 196 | 6 | 0.0136 | 2.8663 | -0.5121 | -0.0559 | 0.0022 | -0.0046 |
| | 8 | 2.2694 | -0.3722 | -0.4150 | 0.0459 | 0.0069 | 0.0897 |
| 197 | 6 | 0.0107 | 2.8629 | -0.4786 | -0.0787 | 0.0036 | -0.0059 |
| | 8 | 2.3267 | -0.3412 | -0.4354 | 0.0244 | -0.0053 | 0.0885 |
| 198 | 6 | 0.0125 | 2.8658 | -0.4780 | -0.0796 | -0.0014 | -0.0031 |
| | 8 | 2.3266 | -0.4035 | -0.4462 | 0.0498 | 0.0041 | 0.0890 |
| 199 | 6 | 0.0150 | 2.9033 | -0.5200 | -0.0615 | 0.0023 | -0.0050 |
| | 8 | 2.2669 | -0.3898 | -0.4190 | 0.0376 | -0.0117 | 0.0937 |
| 200 | 6 | 0.0136 | 2.8968 | -0.4803 | -0.0627 | 0.0021 | -0.0047 |
| | 8 | 2.3277 | -0.3606 | -0.4406 | 0.0391 | -0.0110 | 0.0946 |
| 201 | 6 | 0.0103 | 2.8993 | -0.4799 | -0.0589 | -0.0026 | -0.0055 |
| | 8 | 2.3250 | -0.4272 | -0.4462 | 0.0441 | -0.0103 | 0.0946 |
| 202 | 6 | 0.0150 | 2.9394 | -0.5264 | -0.1286 | -0.0039 | -0.0061 |
| | 8 | 2.2684 | -0.4110 | -0.4228 | 0.0375 | 0.0353 | 0.1015 |
| 203 | 6 | 0.0126 | 2.9378 | -0.4827 | -0.1170 | -0.0017 | -0.0077 |
| | 8 | 2.3298 | -0.3749 | -0.4447 | 0.0169 | 0.0658 | 0.1000 |
| 204 | 6 | 0.0118 | 2.9419 | -0.4825 | -0.1403 | 0.0098 | -0.0068 |
| | 8 | 2.3291 | -0.4465 | -0.4475 | 0.0284 | 0.0530 | 0.0996 |
| 205 | 6 | 0.0144 | 2.9586 | -0.5278 | -0.1529 | -0.0041 | -0.0067 |
| | 8 | 2.2742 | -0.4154 | -0.4238 | 0.0327 | 0.0474 | 0.1036 |
| 206 | 6 | 0.0125 | 2.9542 | -0.4835 | -0.1300 | 0.0012 | -0.0086 |
| | 8 | 2.3412 | -0.3768 | -0.4455 | 0.0133 | 0.0936 | 0.1028 |
| 207 | 6 | 0.0133 | 2.9622 | -0.4833 | -0.1639 | 0.0094 | -0.0087 |
| | 8 | 2.3379 | -0.4497 | -0.4480 | 0.0252 | 0.0695 | 0.1016 |
| 208 | 6 | 0.0143 | 2.9625 | -0.5281 | -0.1488 | -0.0035 | -0.0068 |
| | 8 | 2.2754 | -0.4162 | -0.4240 | 0.0323 | 0.0461 | 0.1041 |
| 209 | 6 | 0.0126 | 2.9575 | -0.4836 | -0.1278 | 0.0024 | -0.0087 |
| | 8 | 2.3436 | -0.3771 | -0.4457 | 0.0132 | 0.0900 | 0.1034 |
| 210 | 6 | 0.0135 | 2.9664 | -0.4835 | -0.1615 | 0.0073 | -0.0091 |
| | 8 | 2.3397 | -0.4503 | -0.4481 | 0.0262 | 0.0656 | 0.1019 |
| 211 | 6 | 0.0153 | 3.0219 | -0.5332 | -0.0975 | 0.0074 | -0.0106 |
| | 8 | 2.2913 | -0.4311 | -0.4279 | 0.0276 | 0.0198 | 0.1088 |
| 212 | 6 | 0.0153 | 3.0123 | -0.4864 | -0.1018 | -0.0003 | -0.0102 |
| | 8 | 2.3705 | -0.3851 | -0.4484 | 0.0211 | 0.0196 | 0.1127 |
| 213 | 6 | 0.0104 | 3.0330 | -0.4872 | -0.1024 | -0.0146 | -0.0172 |
| | 8 | 2.3578 | -0.4671 | -0.4504 | 0.0396 | 0.0218 | 0.1093 |
| 214 | 6 | 0.0210 | 3.0693 | -0.5370 | -0.0953 | 0.0112 | -0.0142 |
| | 8 | 2.2985 | -0.4444 | -0.4311 | 0.0283 | 0.0110 | 0.1137 |
| 215 | 6 | 0.0131 | 3.0642 | -0.4903 | -0.0986 | 0.0033 | -0.0123 |
| | 8 | 2.3735 | -0.3989 | -0.4508 | 0.0320 | 0.0098 | 0.1177 |
| 216 | 6 | 0.0048 | 3.0778 | -0.4909 | -0.0930 | 0.0016 | -0.0226 |
| | 8 | 2.3689 | -0.4896 | -0.4542 | 0.0489 | 0.0182 | 0.1157 |
| 217 | 6 | 0.0242 | 3.1188 | -0.5399 | -0.0969 | 0.0016 | -0.0186 |
| | 8 | 2.3035 | -0.4600 | -0.4347 | 0.0314 | 0.0086 | 0.1152 |
| 218 | 6 | 0.0173 | 3.1145 | -0.4942 | -0.1124 | -0.0018 | -0.0119 |
| | 8 | 2.3836 | -0.4154 | -0.4518 | 0.0320 | 0.0167 | 0.1201 |
| 219 | 6 | 0.0085 | 3.1299 | -0.4957 | -0.1012 | -0.0048 | -0.0270 |
| | 8 | 2.3813 | -0.5145 | -0.4585 | 0.0467 | 0.0451 | 0.1217 |
| 220 | 6 | 0.0241 | 3.1656 | -0.5417 | -0.0865 | -0.0009 | -0.0204 |
| | 8 | 2.3068 | -0.4749 | -0.4376 | 0.0293 | 0.0038 | 0.1102 |
| 221 | 6 | 0.0117 | 3.1713 | -0.4989 | -0.0849 | -0.0029 | -0.0122 |
| | 8 | 2.3865 | -0.4311 | -0.4526 | 0.0303 | -0.0014 | 0.1199 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 222 | 6 | 0.0012 | 3.1768 | -0.5005 | -0.0908 | -0.0034 | -0.0336 |
| | 8 | 2.4030 | -0.5335 | -0.4639 | 0.0248 | -0.0028 | 0.1231 |
| 223 | 6 | 0.0235 | 3.2063 | -0.5429 | -0.0754 | -0.0011 | -0.0241 |
| | 8 | 2.3067 | -0.4899 | -0.4408 | 0.0292 | -0.0054 | 0.1010 |
| 224 | 6 | 0.0148 | 3.2001 | -0.5035 | -0.0567 | -0.0024 | -0.0145 |
| | 8 | 2.3824 | -0.4467 | -0.4527 | 0.0331 | -0.0208 | 0.1141 |
| 225 | 6 | 0.0060 | 3.2208 | -0.5060 | -0.0745 | 0.0028 | -0.0388 |
| | 8 | 2.3789 | -0.5400 | -0.4697 | 0.0066 | -0.0488 | 0.1144 |
| 226 | 6 | 0.0232 | 3.2422 | -0.5434 | -0.0658 | -0.0009 | -0.0263 |
| | 8 | 2.3017 | -0.5041 | -0.4435 | 0.0285 | -0.0149 | 0.0845 |
| 227 | 6 | 0.0088 | 3.2349 | -0.5086 | -0.0679 | -0.0051 | -0.0173 |
| | 8 | 2.3671 | -0.4651 | -0.4526 | 0.0391 | -0.0308 | 0.1050 |
| 228 | 6 | 0.0014 | 3.2526 | -0.5115 | -0.0611 | -0.0073 | -0.0467 |
| | 8 | 2.3644 | -0.5449 | -0.4758 | 0.0175 | -0.0273 | 0.1015 |
| 229 | 6 | 0.0219 | 3.2723 | -0.5436 | -0.0524 | -0.0050 | -0.0295 |
| | 8 | 2.2913 | -0.5192 | -0.4464 | 0.0310 | -0.0271 | 0.0628 |
| 230 | 6 | 0.0112 | 3.2644 | -0.5136 | -0.0532 | 0.0007 | -0.0195 |
| | 8 | 2.3509 | -0.4861 | -0.4525 | 0.0436 | -0.0438 | 0.0934 |
| 231 | 6 | 0.0019 | 3.2829 | -0.5175 | -0.0508 | 0.0024 | -0.0567 |
| | 8 | 2.3448 | -0.5569 | -0.4824 | 0.0241 | -0.0461 | 0.0865 |
| 232 | 6 | 0.0185 | 3.2959 | -0.5433 | -0.0422 | -0.0069 | -0.0343 |
| | 8 | 2.2740 | -0.5366 | -0.4487 | 0.0424 | -0.0432 | 0.0353 |
| 233 | 6 | 0.0032 | 3.2891 | -0.5190 | -0.0416 | -0.0321 | -0.0229 |
| | 8 | 2.3209 | -0.5092 | -0.4521 | 0.0467 | -0.0695 | 0.0790 |
| 234 | 6 | 0.0040 | 3.3046 | -0.5235 | -0.0455 | 0.0135 | -0.0725 |
| | 8 | 2.3204 | -0.5632 | -0.4888 | -0.0050 | -0.0486 | 0.0687 |
| 235 | 6 | 0.0177 | 3.3014 | -0.5432 | -0.0450 | -0.0059 | -0.0378 |
| | 8 | 2.2681 | -0.5421 | -0.4493 | 0.0382 | -0.0526 | 0.0239 |
| 236 | 6 | -0.0012 | 3.2939 | -0.5203 | -0.0290 | -0.0302 | -0.0253 |
| | 8 | 2.3123 | -0.5153 | -0.4521 | 0.0492 | -0.0617 | 0.0743 |
| 237 | 6 | 0.0058 | 3.3106 | -0.5251 | -0.0418 | 0.0077 | -0.0818 |
| | 8 | 2.3142 | -0.5623 | -0.4904 | 0.0004 | -0.0518 | 0.0624 |
| 238 | 6 | 0.0176 | 3.3025 | -0.5431 | -0.0464 | -0.0057 | -0.0385 |
| | 8 | 2.2667 | -0.5431 | -0.4494 | 0.0351 | -0.0557 | 0.0216 |
| 239 | 6 | -0.0019 | 3.2946 | -0.5206 | -0.0243 | -0.0272 | -0.0258 |
| | 8 | 2.3107 | -0.5165 | -0.4521 | 0.0501 | -0.0579 | 0.0733 |
| 240 | 6 | 0.0060 | 3.3116 | -0.5254 | -0.0381 | 0.0031 | -0.0836 |
| | 8 | 2.3129 | -0.5624 | -0.4908 | 0.0061 | -0.0538 | 0.0612 |
| 241 | 6 | 0.0146 | 3.3226 | -0.5434 | -0.0079 | -0.0059 | -0.0287 |
| | 8 | 2.2391 | -0.5575 | -0.4483 | 0.0424 | -0.0387 | -0.1403 |
| 242 | 6 | -0.0019 | 3.3040 | -0.5189 | -0.0455 | 0.0062 | -0.0227 |
| | 8 | 2.2841 | -0.5384 | -0.4518 | 0.0249 | -0.0666 | 0.0729 |
| 243 | 6 | -0.0035 | 3.3244 | -0.5246 | -0.0476 | -0.0231 | -0.2398 |
| | 8 | 2.2794 | -0.5834 | -0.4909 | 0.0553 | -0.0577 | 0.0684 |
| 244 | 6 | 0.0113 | 3.3201 | -0.5434 | -0.0336 | -0.0083 | -0.0270 |
| | 8 | 2.2199 | -0.5844 | -0.4470 | 0.0429 | -0.0738 | -0.0259 |
| 245 | 6 | -0.0055 | 3.3337 | -0.5165 | -0.0232 | -0.0260 | -0.0199 |
| | 8 | 2.2456 | -0.5483 | -0.4512 | 0.0439 | -0.0623 | 0.0724 |
| 246 | 6 | -0.0094 | 3.3551 | -0.5229 | -0.0269 | 0.0053 | -0.1269 |
| | 8 | 2.2554 | -0.6065 | -0.4902 | 0.0277 | -0.0553 | 0.0729 |
| 247 | 6 | 0.0068 | 3.3687 | -0.5469 | -0.1383 | -0.0111 | -0.0361 |
| | 8 | 2.1587 | -0.5932 | -0.4464 | -0.0040 | -0.1416 | 0.0420 |
| 248 | 6 | -0.0218 | 3.3126 | -0.5137 | 0.0821 | -0.0155 | -0.0348 |
| | 8 | 2.2276 | -0.5920 | -0.4528 | 0.1159 | -0.0150 | 0.0595 |
| 249 | 6 | -0.0031 | 3.3344 | -0.5206 | 0.0969 | -0.0013 | -0.0616 |
| | 8 | 2.2129 | -0.6124 | -0.4883 | 0.0115 | -0.1150 | 0.0638 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 250 | 6 | 0.0067 | 3.3727 | -0.5520 | -0.0060 | -0.0026 | -0.0437 |
| | 8 | 2.1600 | -0.6222 | -0.4469 | 0.0674 | 0.0261 | 0.0487 |
| 251 | 6 | -0.0195 | 3.3687 | -0.5122 | -0.1558 | -0.0008 | -0.0301 |
| | 8 | 2.1950 | -0.5915 | -0.4558 | -0.0183 | -0.0580 | 0.0590 |
| 252 | 6 | -0.0197 | 3.3959 | -0.5198 | -0.1873 | -0.0345 | -0.0545 |
| | 8 | 2.2001 | -0.6457 | -0.4871 | 0.0697 | 0.0050 | 0.1362 |
| 253 | 6 | 0.0012 | 3.4131 | -0.5534 | -0.0896 | -0.0078 | -0.0507 |
| | 8 | 2.1338 | -0.6386 | -0.4468 | 0.0308 | -0.0652 | 0.0567 |
| 254 | 6 | -0.0250 | 3.3951 | -0.5112 | -0.0338 | -0.0188 | -0.0339 |
| | 8 | 2.1808 | -0.6148 | -0.4568 | 0.0550 | -0.0286 | 0.0591 |
| 255 | 6 | -0.0296 | 3.4357 | -0.5193 | -0.0382 | -0.0066 | -0.0488 |
| | 8 | 2.1787 | -0.6662 | -0.4865 | 0.0329 | -0.0492 | 0.2601 |
| 256 | 6 | -0.0001 | 3.4475 | -0.5545 | -0.0614 | -0.0086 | -0.0580 |
| | 8 | 2.1140 | -0.6606 | -0.4471 | 0.0443 | -0.0307 | 0.0582 |
| 257 | 6 | -0.0343 | 3.4282 | -0.5111 | -0.0755 | -0.0121 | -0.0242 |
| | 8 | 2.1611 | -0.6328 | -0.4577 | 0.0336 | -0.0393 | 0.0598 |
| 258 | 6 | -0.0315 | 3.4627 | -0.5190 | -0.0678 | -0.0087 | -0.0393 |
| | 8 | 2.1619 | -0.6867 | -0.4860 | 0.0435 | -0.0309 | 0.1804 |
| 259 | 6 | -0.0082 | 3.4801 | -0.5551 | -0.0639 | -0.0161 | -0.0620 |
| | 8 | 2.0955 | -0.6800 | -0.4471 | 0.0384 | -0.0399 | 0.0629 |
| 260 | 6 | -0.0375 | 3.4635 | -0.5109 | -0.0676 | -0.0078 | 0.0036 |
| | 8 | 2.1436 | -0.6528 | -0.4582 | 0.0408 | -0.0350 | 0.0635 |
| 261 | 6 | -0.0389 | 3.4995 | -0.5189 | -0.0681 | -0.0136 | -0.0216 |
| | 8 | 2.1436 | -0.7082 | -0.4856 | 0.0410 | -0.0383 | 0.1607 |
| 262 | 6 | -0.0135 | 3.5144 | -0.5552 | -0.0778 | -0.0078 | -0.0664 |
| | 8 | 2.0775 | -0.7005 | -0.4473 | 0.0427 | -0.0247 | 0.0654 |
| 263 | 6 | -0.0436 | 3.4973 | -0.5109 | -0.0650 | -0.0153 | 0.0616 |
| | 8 | 2.1252 | -0.6726 | -0.4584 | 0.0386 | -0.0378 | 0.0653 |
| 264 | 6 | -0.0436 | 3.5317 | -0.5189 | -0.0675 | -0.0075 | -0.0410 |
| | 8 | 2.1252 | -0.7282 | -0.4856 | 0.0380 | -0.0320 | 0.1261 |
| 265 | 6 | -0.0145 | 3.5249 | -0.5552 | -0.0840 | -0.0078 | -0.0664 |
| | 8 | 2.0748 | -0.7059 | -0.4473 | 0.0427 | -0.0191 | 0.0654 |
| 266 | 6 | -0.0456 | 3.5057 | -0.5109 | -0.0668 | -0.0153 | 0.0616 |
| | 8 | 2.1205 | -0.6775 | -0.4584 | 0.0386 | -0.0366 | 0.0653 |
| 267 | 6 | -0.0446 | 3.5407 | -0.5189 | -0.0717 | -0.0075 | -0.0410 |
| | 8 | 2.1215 | -0.7331 | -0.4856 | 0.0380 | -0.0284 | 0.1261 |
| 268 | 6 | -0.0147 | 3.5270 | -0.5553 | -0.0841 | -0.0078 | -0.0664 |
| | 8 | 2.0743 | -0.7070 | -0.4473 | 0.0427 | -0.0190 | 0.0654 |
| 269 | 6 | -0.0459 | 3.5074 | -0.5109 | -0.0669 | -0.0153 | 0.0616 |
| | 8 | 2.1195 | -0.6785 | -0.4584 | 0.0386 | -0.0365 | 0.0653 |
| 270 | 6 | -0.0447 | 3.5425 | -0.5189 | -0.0718 | -0.0075 | -0.0410 |
| | 8 | 2.1208 | -0.7340 | -0.4856 | 0.0380 | -0.0283 | 0.1261 |
| 301 | 6 | 0.0000 | 0.0000 | 0.0000 | -0.1171 | -0.0012 | 0.0000 |
| | 8 | 0.0000 | 0.0000 | 0.0000 | -0.0102 | 0.0761 | 0.0000 |
| 302 | 6 | 0.0004 | 0.0245 | -0.0146 | -0.1220 | -0.0001 | -0.0077 |
| | 8 | 0.0017 | 0.0022 | -0.0056 | -0.0177 | 0.0498 | 0.1716 |
| 303 | 6 | -0.0006 | 0.0251 | -0.0006 | -0.1137 | -0.0077 | -0.0079 |
| | 8 | 0.0229 | -0.0099 | 0.0009 | 0.0117 | 0.0797 | 0.1716 |
| 304 | 6 | -0.0006 | 0.0240 | -0.0004 | -0.1118 | 0.0042 | -0.0075 |
| | 8 | 0.0229 | 0.0145 | -0.0094 | -0.0295 | 0.0899 | 0.1719 |
| 305 | 6 | 0.0013 | 0.0471 | -0.0284 | -0.1226 | 0.0004 | -0.0114 |
| | 8 | -0.0100 | 0.0049 | -0.0111 | -0.0201 | 0.0365 | 0.2531 |
| 306 | 6 | -0.0013 | 0.0487 | -0.0013 | -0.1138 | -0.0085 | -0.0115 |
| | 8 | 0.0496 | -0.0289 | 0.0015 | 0.0196 | 0.0826 | 0.2528 |
| 307 | 6 | -0.0014 | 0.0456 | -0.0009 | -0.1111 | 0.0047 | -0.0112 |
| | 8 | 0.0493 | 0.0389 | -0.0178 | -0.0405 | 0.0942 | 0.2532 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 308 | 6 | 0.0025 | 0.0691 | -0.0416 | -0.1212 | 0.0006 | -0.0137 |
| | 8 | -0.0274 | 0.0074 | -0.0164 | -0.0200 | 0.0307 | 0.3058 |
| 309 | 6 | -0.0023 | 0.0718 | -0.0021 | -0.1117 | -0.0090 | -0.0137 |
| | 8 | 0.0785 | -0.0533 | 0.0022 | 0.0251 | 0.0838 | 0.3057 |
| 310 | 6 | -0.0022 | 0.0664 | -0.0016 | -0.1088 | 0.0051 | -0.0136 |
| | 8 | 0.0782 | 0.0687 | -0.0263 | -0.0439 | 0.0965 | 0.3060 |
| 311 | 6 | 0.0038 | 0.0908 | -0.0548 | -0.1174 | 0.0004 | -0.0152 |
| | 8 | -0.0484 | 0.0097 | -0.0216 | -0.0164 | 0.0279 | 0.3450 |
| 312 | 6 | -0.0031 | 0.0950 | -0.0028 | -0.1117 | -0.0054 | -0.0148 |
| | 8 | 0.1097 | -0.0806 | 0.0028 | 0.0267 | 0.0886 | 0.3451 |
| 313 | 6 | -0.0033 | 0.0870 | -0.0022 | -0.1096 | 0.0020 | -0.0154 |
| | 8 | 0.1088 | 0.1012 | -0.0345 | -0.0473 | 0.0942 | 0.3448 |
| 314 | 6 | 0.0048 | 0.1137 | -0.0684 | -0.1526 | -0.0027 | -0.0152 |
| | 8 | -0.0719 | 0.0130 | -0.0273 | -0.0516 | 0.0295 | 0.3735 |
| 315 | 6 | -0.0049 | 0.1174 | -0.0041 | -0.0937 | -0.0383 | -0.0155 |
| | 8 | 0.1410 | -0.1108 | 0.0027 | 0.0482 | 0.0546 | 0.3740 |
| 316 | 6 | -0.0031 | 0.1071 | -0.0034 | -0.0924 | 0.0387 | -0.0161 |
| | 8 | 0.1420 | 0.1351 | -0.0433 | -0.0290 | 0.1313 | 0.3740 |
| 401 | 6 | -0.0213 | 2.7990 | -0.4482 | 0.0297 | 0.0497 | 0.1406 |
| | 8 | 2.2799 | -0.3355 | -0.5290 | 0.0312 | -0.0929 | 0.1566 |
| 402 | 6 | 0.0381 | 2.7651 | -0.4384 | 0.0296 | -0.0184 | 0.1277 |
| | 8 | 2.3431 | -0.3717 | -0.5479 | 0.0239 | -0.1225 | 0.1749 |
| 403 | 6 | -0.0212 | 2.7852 | -0.5734 | 0.0608 | 0.0051 | 0.0058 |
| | 8 | 2.4146 | -0.2584 | -0.5112 | 0.0878 | -0.0531 | -0.0622 |
| 404 | 6 | -0.0212 | 2.7933 | -0.5770 | 0.0632 | 0.0107 | 0.0190 |
| | 8 | 2.4146 | -0.3042 | -0.5162 | 0.0155 | -0.0444 | -0.0845 |
| 405 | 6 | 0.0059 | 2.7354 | -0.4358 | 0.0218 | 0.0025 | -0.1036 |
| | 8 | 2.3186 | -0.1747 | -0.2469 | 0.0862 | -0.1283 | 0.1511 |
| 406 | 6 | 0.0552 | 2.7636 | -0.4513 | 0.0259 | -0.0641 | -0.1285 |
| | 8 | 2.2673 | -0.2042 | -0.2413 | 0.0433 | -0.1171 | 0.1258 |
| 407 | 6 | 0.0104 | 2.8517 | -0.4804 | -0.0287 | 0.0011 | -0.0140 |
| | 8 | 2.2378 | -0.2889 | -0.4021 | 0.0221 | -0.1433 | 0.0754 |
| 408 | 6 | 0.0312 | 2.7462 | -0.4765 | 0.0851 | -0.0075 | -0.0167 |
| | 8 | 2.3374 | -0.3051 | -0.4533 | 0.0479 | -0.1363 | 0.0517 |
| 409 | 6 | -0.0105 | 2.7442 | -0.4771 | 0.0872 | 0.0101 | -0.0220 |
| | 8 | 2.3706 | -0.3404 | -0.4130 | 0.1125 | -0.0669 | 0.0664 |
| 410 | 6 | -0.1570 | 2.5263 | -0.5151 | 1.1212 | -0.9605 | 0.0208 |
| | 8 | 2.0860 | -0.5810 | -0.7859 | 0.4178 | -0.8210 | 0.1216 |
| 411 | 6 | 0.0063 | 2.7090 | -0.8210 | 0.5322 | -0.0026 | 0.0195 |
| | 8 | 2.1437 | -0.3476 | -0.7183 | 0.4316 | -1.7656 | 0.0622 |
| 412 | 6 | 0.1751 | 2.5291 | -0.5139 | 1.0970 | 0.9475 | 0.0059 |
| | 8 | 2.1368 | -0.0115 | -0.1513 | -0.6977 | -0.3349 | 0.0639 |
| 501 | 6 | 0.0138 | 3.3687 | -0.5716 | -0.0275 | 0.0230 | 0.0498 |
| | 8 | 2.1671 | -0.6316 | -0.5216 | 0.0278 | -0.0598 | 0.0952 |
| 502 | 6 | 0.0411 | 3.3531 | -0.5503 | -0.0300 | -0.0312 | 0.0425 |
| | 8 | 2.2030 | -0.6521 | -0.5384 | 0.0280 | -0.0773 | 0.0989 |
| 503 | 6 | -0.0646 | 3.3237 | -0.5216 | -0.0143 | -0.0022 | -0.0168 |
| | 8 | 2.2896 | -0.5787 | -0.5271 | 0.0554 | -0.0486 | 0.0223 |
| 504 | 6 | -0.0646 | 3.3222 | -0.5225 | -0.0080 | 0.0072 | -0.0128 |
| | 8 | 2.2896 | -0.5832 | -0.5219 | 0.0133 | -0.0486 | 0.0076 |
| 505 | 6 | 0.0037 | 3.2556 | -0.5249 | -0.0399 | -0.0048 | -0.0843 |
| | 8 | 2.1870 | -0.5026 | -0.3653 | 0.0490 | -0.0777 | 0.1027 |
| 506 | 6 | 0.0411 | 3.2771 | -0.5548 | -0.0361 | -0.0510 | -0.0969 |
| | 8 | 2.1509 | -0.5234 | -0.3611 | 0.0223 | -0.0640 | 0.0929 |
| 507 | 6 | 0.0058 | 3.3817 | -0.5478 | -0.0611 | -0.0067 | -0.0398 |
| | 8 | 2.1455 | -0.5928 | -0.4463 | 0.0153 | -0.0819 | 0.0497 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 508 | 6 | -0.0043 | 3.3253 | -0.5202 | 0.0214 | -0.0302 | -0.0573 |
| | 8 | 2.2011 | -0.6144 | -0.4879 | 0.0447 | -0.0979 | 0.0633 |
| 509 | 6 | -0.0223 | 3.3052 | -0.5131 | 0.0136 | 0.0122 | -0.0346 |
| | 8 | 2.2259 | -0.6031 | -0.4533 | 0.0614 | -0.0484 | 0.0578 |
| 510 | 6 | -0.0690 | 3.2613 | -0.6710 | 0.8216 | -0.7809 | -0.0541 |
| | 8 | 2.0562 | -0.7671 | -0.6795 | 0.1493 | -0.4477 | 0.0855 |
| 511 | 6 | -0.0677 | 3.2851 | -0.6564 | 0.3971 | 0.0860 | -0.0194 |
| | 8 | 2.2101 | -0.6242 | -0.6569 | 0.2785 | -1.0549 | 0.1005 |
| 512 | 6 | 0.1262 | 3.1381 | -0.6294 | 0.7681 | 0.7245 | 0.0110 |
| | 8 | 2.0731 | -0.3872 | -0.3303 | -0.5144 | -0.2039 | 0.0376 |
| 2001 | 6 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2002 | 6 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2003 | 6 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2501 | 6 | 0.0046 | 1.1876 | -0.3625 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 0.2726 | 0.1043 | -0.2544 | 0.0000 | 0.0000 | 0.0000 |
| 2502 | 6 | -0.0108 | 1.1348 | -0.2611 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 1.0622 | 0.5778 | -0.3249 | 0.0000 | 0.0000 | 0.0000 |
| 2503 | 6 | -0.0035 | 1.1566 | -0.2550 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 1.0651 | -0.4210 | -0.2059 | 0.0000 | 0.0000 | 0.0000 |
| 3001 | 6 | -0.1613 | 2.5267 | -0.2642 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.0605 | -0.5789 | -0.6847 | 0.0000 | 0.0000 | 0.0000 |
| 3002 | 6 | 0.1739 | 2.5290 | -0.2683 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.1234 | -0.0126 | -0.3030 | 0.0000 | 0.0000 | 0.0000 |
| 3003 | 6 | 0.1758 | 2.5302 | -0.8076 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.1444 | -0.0005 | -0.0105 | 0.0000 | 0.0000 | 0.0000 |
| 3004 | 6 | 0.0081 | 2.7127 | -0.8685 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.1493 | -0.3359 | -0.4244 | 0.0000 | 0.0000 | 0.0000 |
| 3005 | 6 | 0.0081 | 2.7053 | -0.8695 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.1493 | -0.3593 | -1.0900 | 0.0000 | 0.0000 | 0.0000 |
| 3006 | 6 | -0.1545 | 2.5227 | -0.8139 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.1005 | -0.6019 | -0.9768 | 0.0000 | 0.0000 | 0.0000 |
| 4001 | 6 | -0.0577 | 3.2604 | -0.4858 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.0383 | -0.7656 | -0.6408 | 0.0000 | 0.0000 | 0.0000 |
| 4002 | 6 | 0.1239 | 3.1380 | -0.4564 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.0652 | -0.3878 | -0.4415 | 0.0000 | 0.0000 | 0.0000 |
| 4003 | 6 | 0.1275 | 3.1400 | -0.8455 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.0776 | -0.3807 | -0.2339 | 0.0000 | 0.0000 | 0.0000 |
| 4004 | 6 | -0.0694 | 3.2814 | -0.7084 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.2192 | -0.6052 | -0.4832 | 0.0000 | 0.0000 | 0.0000 |
| 4005 | 6 | -0.0694 | 3.2888 | -0.6760 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.2192 | -0.6431 | -0.8808 | 0.0000 | 0.0000 | 0.0000 |
| 4006 | 6 | -0.0755 | 3.2706 | -0.9032 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.0665 | -0.7817 | -0.7742 | 0.0000 | 0.0000 | 0.0000 |

2 NODE PRISMATIC BEAM ELEMENT -- FORCES AND MOMENTS

SIGN CONVENTION : BEAM DESIGNERS

| ELEM NO | LOAD COMB | NODE NO | AXIAL | SHEAR X | SHEAR Y | MOMENT X | MOMENT Y | TORSION |
|---|---|---|---|---|---|---|---|---|
| Units: | | | K | K | K | K -Ft | K -Ft | K -Ft |
| 1 | 6 | 4 | 1.8422 | -0.0025 | -0.0003 | 0.0005 | 0.0068 | 0.0007 |
| | | 5 | 1.8422 | 0.0008 | -0.0003 | -0.0007 | 0.0038 | 0.0007 |
| | 8 | 4 | 1.8028 | -0.0066 | 0.0005 | -0.0008 | 0.0140 | 0.0052 |
| | | 5 | 1.8028 | -0.0033 | 0.0005 | 0.0010 | -0.0029 | 0.0052 |
| 2 | 6 | 5 | 1.9142 | 0.0026 | 0.0001 | -0.0002 | -0.0073 | 0.0001 |
| | | 6 | 1.9142 | -0.0006 | 0.0001 | 0.0001 | -0.0039 | 0.0001 |
| | 8 | 5 | 1.9978 | 0.0093 | -0.0007 | 0.0011 | -0.0193 | 0.0051 |
| | | 6 | 1.9978 | 0.0060 | -0.0007 | -0.0011 | 0.0070 | 0.0051 |
| 3 | 6 | 6 | 1.6821 | -0.0011 | 0.0000 | 0.0001 | 0.0038 | 0.0002 |
| | | 4 | 1.6821 | 0.0022 | 0.0000 | 0.0000 | 0.0058 | 0.0002 |
| | 8 | 6 | 1.8768 | -0.0080 | 0.0008 | -0.0015 | 0.0165 | 0.0047 |
| | | 4 | 1.8768 | -0.0047 | 0.0008 | 0.0014 | -0.0052 | 0.0047 |
| 4 | 6 | 4 | -0.2476 | -0.0065 | 0.0056 | -0.0109 | 0.0123 | -0.0005 |
| | | 8 | -0.2453 | -0.0042 | 0.0033 | 0.0078 | -0.0102 | -0.0005 |
| | 8 | 4 | -0.7933 | -0.0079 | 0.0060 | -0.0093 | 0.0184 | 0.0007 |
| | | 8 | -0.7910 | -0.0056 | 0.0037 | 0.0110 | -0.0097 | 0.0007 |
| 5 | 6 | 5 | 0.1688 | 0.0081 | -0.0003 | 0.0012 | -0.0162 | -0.0007 |
| | | 9 | 0.1711 | 0.0048 | -0.0003 | -0.0001 | 0.0106 | -0.0007 |
| | 8 | 5 | -1.2889 | 0.0116 | 0.0009 | -0.0056 | -0.0237 | 0.0009 |
| | | 9 | -1.2866 | 0.0083 | 0.0009 | -0.0019 | 0.0180 | 0.0009 |
| 6 | 6 | 6 | 0.4727 | -0.0048 | -0.0048 | 0.0089 | 0.0097 | -0.0008 |
| | | 7 | 0.4749 | -0.0025 | -0.0025 | -0.0065 | -0.0057 | -0.0008 |
| | 8 | 6 | -0.7615 | -0.0069 | -0.0076 | 0.0182 | 0.0116 | 0.0008 |
| | | 7 | -0.7592 | -0.0046 | -0.0053 | -0.0088 | -0.0124 | 0.0008 |
| 7 | 6 | 7 | -0.3673 | 0.0024 | 0.0036 | -0.0051 | -0.0030 | -0.0002 |
| | | 12 | -0.3650 | 0.0001 | 0.0013 | 0.0051 | 0.0020 | -0.0002 |
| | 8 | 7 | 0.8619 | -0.0003 | 0.0032 | -0.0067 | 0.0053 | 0.0006 |
| | | 12 | 0.8642 | -0.0026 | 0.0009 | 0.0018 | -0.0008 | 0.0006 |
| 8 | 6 | 8 | 0.2628 | 0.0030 | -0.0005 | -0.0016 | -0.0033 | -0.0001 |
| | | 10 | 0.2651 | 0.0006 | 0.0018 | 0.0011 | 0.0042 | -0.0001 |
| | 8 | 8 | 0.9287 | 0.0029 | 0.0004 | -0.0058 | -0.0060 | 0.0009 |
| | | 10 | 0.9310 | 0.0006 | 0.0027 | 0.0008 | 0.0013 | 0.0009 |
| 9 | 6 | 9 | 0.0203 | -0.0038 | -0.0016 | 0.0030 | 0.0050 | -0.0006 |
| | | 11 | 0.0226 | -0.0006 | -0.0016 | -0.0036 | -0.0042 | -0.0006 |
| | 8 | 9 | 1.3003 | -0.0009 | -0.0024 | 0.0085 | -0.0021 | 0.0008 |
| | | 11 | 1.3026 | 0.0023 | -0.0024 | -0.0016 | 0.0008 | 0.0008 |
| 10 | 6 | 10 | -0.2456 | -0.0026 | 0.0020 | -0.0030 | 0.0037 | -0.0004 |
| | | 14 | -0.2433 | -0.0003 | -0.0003 | 0.0005 | -0.0023 | -0.0004 |
| | 8 | 10 | -0.8908 | -0.0034 | 0.0023 | -0.0011 | 0.0078 | 0.0006 |
| | | 14 | -0.8885 | -0.0011 | 0.0000 | 0.0039 | -0.0018 | 0.0006 |
| 11 | 6 | 11 | 0.0834 | 0.0033 | 0.0002 | 0.0000 | -0.0047 | -0.0001 |
| | | 15 | 0.0857 | 0.0000 | 0.0002 | 0.0009 | 0.0021 | -0.0001 |
| | 8 | 11 | -1.1054 | 0.0044 | 0.0010 | -0.0051 | -0.0072 | 0.0007 |
| | | 15 | -1.1031 | 0.0011 | 0.0009 | -0.0011 | 0.0042 | 0.0007 |
| 12 | 6 | 12 | 0.2054 | -0.0021 | -0.0015 | 0.0012 | 0.0029 | -0.0004 |
| | | 13 | 0.2076 | 0.0002 | 0.0008 | -0.0005 | -0.0013 | -0.0004 |
| | 8 | 12 | -0.8235 | -0.0023 | -0.0037 | 0.0085 | 0.0011 | 0.0008 |
| | | 13 | -0.8212 | 0.0000 | -0.0014 | -0.0022 | -0.0038 | 0.0008 |
| 13 | 6 | 13 | -0.2182 | 0.0041 | 0.0020 | -0.0028 | -0.0076 | 0.0000 |
| | | 18 | -0.2159 | 0.0018 | -0.0003 | 0.0007 | 0.0047 | 0.0000 |
| | 8 | 13 | 0.8213 | 0.0029 | 0.0024 | -0.0057 | -0.0025 | 0.0005 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 18 | 0.8236 | 0.0006 | 0.0000 | -0.0007 | 0.0047 | 0.0005 |
| 14 | 6 | 14 | 0.0335 | 0.0025 | -0.0031 | 0.0053 | -0.0037 | 0.0000 |
| | | 16 | 0.0358 | 0.0001 | -0.0008 | -0.0030 | 0.0018 | 0.0000 |
| | 8 | 14 | 0.8720 | 0.0020 | -0.0027 | 0.0021 | -0.0051 | 0.0008 |
| | | 16 | 0.8743 | -0.0003 | -0.0004 | -0.0046 | -0.0014 | 0.0008 |
| 15 | 6 | 15 | 0.0055 | -0.0047 | 0.0009 | -0.0021 | 0.0080 | -0.0004 |
| | | 17 | 0.0078 | -0.0014 | 0.0009 | 0.0018 | -0.0048 | -0.0004 |
| | 8 | 15 | 0.9301 | -0.0032 | 0.0003 | 0.0026 | 0.0046 | 0.0007 |
| | | 17 | 0.9324 | 0.0001 | 0.0003 | 0.0037 | -0.0019 | 0.0007 |
| 16 | 6 | 16 | -0.0189 | -0.0031 | 0.0037 | -0.0061 | 0.0051 | -0.0001 |
| | | 20 | -0.0166 | -0.0008 | 0.0014 | 0.0045 | -0.0032 | -0.0001 |
| | 8 | 16 | -0.9242 | -0.0031 | 0.0050 | -0.0060 | 0.0065 | 0.0006 |
| | | 20 | -0.9219 | -0.0008 | 0.0027 | 0.0101 | -0.0016 | 0.0006 |
| 17 | 6 | 17 | 0.0917 | 0.0056 | -0.0009 | 0.0018 | -0.0086 | 0.0004 |
| | | 21 | 0.0940 | 0.0024 | -0.0009 | -0.0021 | 0.0081 | 0.0004 |
| | 8 | 17 | -0.8007 | 0.0062 | -0.0013 | -0.0005 | -0.0102 | 0.0008 |
| | | 21 | -0.7984 | 0.0029 | -0.0013 | -0.0061 | 0.0087 | 0.0008 |
| 18 | 6 | 18 | 0.0360 | -0.0044 | -0.0024 | 0.0031 | 0.0070 | -0.0001 |
| | | 19 | 0.0383 | -0.0021 | -0.0001 | -0.0022 | -0.0065 | -0.0001 |
| | 8 | 18 | -0.8627 | -0.0056 | -0.0032 | 0.0067 | 0.0070 | 0.0009 |
| | | 19 | -0.8604 | -0.0033 | -0.0009 | -0.0020 | -0.0117 | 0.0009 |
| 19 | 6 | 19 | -0.0984 | 0.0012 | 0.0025 | -0.0038 | -0.0007 | 0.0005 |
| | | 24 | -0.0961 | -0.0011 | 0.0002 | 0.0017 | -0.0004 | 0.0005 |
| | 8 | 19 | 0.8200 | 0.0006 | -0.0012 | 0.0009 | 0.0026 | 0.0013 |
| | | 24 | 0.8223 | -0.0017 | -0.0035 | -0.0090 | 0.0004 | 0.0013 |
| 20 | 6 | 20 | -0.2047 | 0.0036 | -0.0022 | 0.0021 | -0.0052 | 0.0003 |
| | | 22 | -0.2024 | 0.0013 | 0.0001 | -0.0023 | 0.0049 | 0.0003 |
| | 8 | 20 | 0.9054 | -0.0008 | -0.0001 | -0.0038 | -0.0005 | 0.0019 |
| | | 22 | 0.9077 | -0.0031 | 0.0022 | 0.0006 | -0.0088 | 0.0019 |
| 21 | 6 | 21 | -0.1137 | -0.0032 | -0.0003 | 0.0009 | 0.0033 | -0.0001 |
| | | 23 | -0.1114 | 0.0000 | -0.0003 | -0.0005 | -0.0034 | -0.0001 |
| | 8 | 21 | 0.6082 | -0.0013 | 0.0011 | 0.0017 | 0.0001 | 0.0014 |
| | | 23 | 0.6105 | 0.0019 | 0.0011 | 0.0064 | 0.0013 | 0.0014 |
| 22 | 6 | 22 | 0.0770 | -0.0004 | -0.0013 | 0.0023 | -0.0018 | -0.0002 |
| | | 23 | 0.0770 | 0.0028 | -0.0013 | -0.0022 | 0.0022 | -0.0002 |
| | 8 | 22 | -0.2544 | -0.0100 | -0.0010 | 0.0018 | 0.0162 | 0.0049 |
| | | 23 | -0.2544 | -0.0068 | -0.0010 | -0.0017 | -0.0125 | 0.0049 |
| 23 | 6 | 23 | 0.0855 | 0.0013 | 0.0015 | -0.0023 | 0.0002 | 0.0003 |
| | | 24 | 0.0855 | -0.0020 | 0.0015 | 0.0027 | -0.0009 | 0.0003 |
| | 8 | 23 | -0.1616 | 0.0055 | 0.0009 | -0.0016 | -0.0078 | 0.0052 |
| | | 24 | -0.1616 | 0.0023 | 0.0009 | 0.0016 | 0.0054 | 0.0052 |
| 24 | 6 | 24 | 0.0351 | -0.0033 | -0.0016 | 0.0029 | 0.0037 | 0.0000 |
| | | 22 | 0.0351 | -0.0001 | -0.0016 | -0.0027 | -0.0021 | 0.0000 |
| | 8 | 24 | -0.2607 | -0.0092 | -0.0009 | 0.0015 | 0.0147 | 0.0055 |
| | | 22 | -0.2607 | -0.0059 | -0.0009 | -0.0015 | -0.0110 | 0.0055 |
| 25 | 6 | 28 | -0.0458 | 0.0006 | -0.0012 | 0.0020 | -0.0028 | -0.0006 |
| | | 29 | -0.0458 | 0.0039 | -0.0012 | -0.0019 | 0.0050 | -0.0006 |
| | 8 | 28 | 0.3339 | -0.0091 | -0.0028 | 0.0047 | 0.0154 | 0.0045 |
| | | 29 | 0.3339 | -0.0058 | -0.0028 | -0.0047 | -0.0101 | 0.0045 |
| 26 | 6 | 29 | 0.0772 | 0.0009 | 0.0015 | -0.0023 | -0.0002 | -0.0007 |
| | | 30 | 0.0772 | -0.0024 | 0.0015 | 0.0027 | -0.0027 | -0.0007 |
| | 8 | 29 | 0.2073 | 0.0050 | 0.0029 | -0.0050 | -0.0082 | 0.0047 |
| | | 30 | 0.2073 | 0.0018 | 0.0029 | 0.0050 | 0.0035 | 0.0047 |
| 27 | 6 | 30 | 0.0657 | -0.0019 | -0.0014 | 0.0025 | 0.0017 | -0.0009 |
| | | 28 | 0.0657 | 0.0013 | -0.0014 | -0.0022 | 0.0007 | -0.0009 |
| | 8 | 30 | 0.3613 | -0.0084 | -0.0031 | 0.0052 | 0.0143 | 0.0048 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 28 | 0.3613 | -0.0051 | -0.0031 | -0.0053 | -0.0089 | 0.0048 |
| 28 | 6 | 28 | 0.1412 | -0.0022 | 0.0014 | -0.0020 | 0.0029 | -0.0004 |
| | | 32 | 0.1435 | 0.0001 | -0.0009 | -0.0008 | -0.0017 | -0.0004 |
| | 8 | 28 | -1.0358 | -0.0074 | 0.0027 | -0.0032 | 0.0175 | 0.0011 |
| | | 32 | -1.0335 | -0.0051 | 0.0004 | 0.0032 | -0.0087 | 0.0011 |
| 29 | 6 | 29 | -0.0058 | 0.0029 | 0.0002 | 0.0003 | -0.0048 | -0.0003 |
| | | 33 | -0.0035 | -0.0003 | 0.0002 | 0.0013 | 0.0006 | -0.0003 |
| | 8 | 29 | -0.5219 | 0.0056 | 0.0033 | -0.0099 | -0.0109 | 0.0010 |
| | | 33 | -0.5196 | 0.0024 | 0.0033 | 0.0039 | 0.0059 | 0.0010 |
| 30 | 6 | 30 | -0.2580 | -0.0021 | -0.0026 | 0.0038 | 0.0036 | -0.0004 |
| | | 31 | -0.2557 | 0.0002 | -0.0003 | -0.0024 | -0.0004 | -0.0004 |
| | 8 | 30 | -0.9677 | -0.0025 | -0.0074 | 0.0172 | 0.0029 | 0.0009 |
| | | 31 | -0.9654 | -0.0002 | -0.0051 | -0.0088 | -0.0029 | 0.0009 |
| 31 | 6 | 31 | 0.1723 | 0.0045 | 0.0022 | -0.0031 | -0.0085 | 0.0000 |
| | | 36 | 0.1746 | 0.0022 | -0.0001 | 0.0013 | 0.0054 | 0.0000 |
| | 8 | 31 | 0.8727 | 0.0016 | 0.0039 | -0.0081 | -0.0004 | 0.0002 |
| | | 36 | 0.8749 | -0.0007 | 0.0016 | 0.0036 | 0.0016 | 0.0002 |
| 32 | 6 | 32 | -0.3582 | 0.0031 | -0.0040 | 0.0070 | -0.0046 | 0.0001 |
| | | 34 | -0.3559 | 0.0008 | -0.0017 | -0.0048 | 0.0034 | 0.0001 |
| | 8 | 32 | 0.9469 | 0.0037 | -0.0018 | 0.0005 | -0.0075 | 0.0005 |
| | | 34 | 0.9492 | 0.0013 | 0.0005 | -0.0023 | 0.0030 | 0.0005 |
| 33 | 6 | 33 | -0.0176 | -0.0056 | 0.0008 | -0.0022 | 0.0102 | -0.0005 |
| | | 35 | -0.0154 | -0.0023 | 0.0008 | 0.0012 | -0.0063 | -0.0005 |
| | 8 | 33 | 0.3118 | -0.0044 | -0.0015 | 0.0052 | 0.0067 | 0.0004 |
| | | 35 | 0.3141 | -0.0012 | -0.0014 | -0.0009 | -0.0051 | 0.0004 |
| 34 | 6 | 34 | 0.3646 | -0.0021 | 0.0026 | -0.0039 | 0.0028 | 0.0000 |
| | | 38 | 0.3669 | 0.0002 | 0.0003 | 0.0020 | -0.0013 | 0.0000 |
| | 8 | 34 | -0.8943 | -0.0036 | 0.0030 | -0.0029 | 0.0070 | 0.0005 |
| | | 38 | -0.8920 | -0.0012 | 0.0007 | 0.0050 | -0.0031 | 0.0005 |
| 35 | 6 | 35 | 0.1085 | 0.0044 | -0.0008 | 0.0019 | -0.0065 | 0.0004 |
| | | 39 | 0.1108 | 0.0011 | -0.0008 | -0.0015 | 0.0049 | 0.0004 |
| | 8 | 35 | -0.1266 | 0.0039 | 0.0004 | -0.0031 | -0.0057 | 0.0007 |
| | | 39 | -0.1243 | 0.0007 | 0.0004 | -0.0014 | 0.0038 | 0.0007 |
| 36 | 6 | 36 | -0.3351 | -0.0039 | -0.0021 | 0.0024 | 0.0063 | -0.0001 |
| | | 37 | -0.3328 | -0.0016 | 0.0002 | -0.0016 | -0.0052 | -0.0001 |
| | 8 | 36 | -0.8299 | -0.0033 | -0.0037 | 0.0074 | 0.0034 | 0.0007 |
| | | 37 | -0.8276 | -0.0011 | -0.0014 | -0.0033 | -0.0058 | 0.0007 |
| 37 | 6 | 37 | 0.3498 | 0.0024 | 0.0019 | -0.0023 | -0.0037 | 0.0002 |
| | | 42 | 0.3521 | 0.0001 | -0.0004 | 0.0006 | 0.0017 | 0.0002 |
| | 8 | 37 | 0.8194 | 0.0013 | 0.0022 | -0.0045 | 0.0005 | 0.0007 |
| | | 42 | 0.8217 | -0.0010 | -0.0002 | -0.0003 | 0.0011 | 0.0007 |
| 38 | 6 | 38 | -0.5425 | 0.0034 | -0.0033 | 0.0052 | -0.0052 | 0.0000 |
| | | 40 | -0.5402 | 0.0011 | -0.0010 | -0.0037 | 0.0044 | 0.0000 |
| | 8 | 38 | 0.9041 | 0.0023 | -0.0012 | -0.0005 | -0.0049 | 0.0008 |
| | | 40 | 0.9064 | 0.0000 | 0.0010 | -0.0009 | -0.0001 | 0.0008 |
| 39 | 6 | 39 | -0.0165 | -0.0039 | 0.0002 | -0.0005 | 0.0056 | -0.0002 |
| | | 41 | -0.0142 | -0.0006 | 0.0002 | 0.0004 | -0.0039 | -0.0002 |
| | 8 | 39 | -0.0398 | -0.0041 | -0.0006 | 0.0032 | 0.0062 | 0.0006 |
| | | 41 | -0.0375 | -0.0009 | -0.0005 | 0.0010 | -0.0043 | 0.0006 |
| 40 | 6 | 40 | 0.5175 | -0.0020 | 0.0020 | -0.0028 | 0.0023 | -0.0002 |
| | | 44 | 0.5198 | 0.0003 | -0.0003 | 0.0007 | -0.0010 | -0.0002 |
| | 8 | 40 | -0.9229 | -0.0047 | 0.0037 | -0.0047 | 0.0098 | 0.0005 |
| | | 44 | -0.9207 | -0.0024 | 0.0014 | 0.0058 | -0.0052 | 0.0005 |
| 41 | 6 | 41 | 0.0912 | 0.0034 | 0.0000 | 0.0003 | -0.0052 | 0.0000 |
| | | 45 | 0.0935 | 0.0002 | 0.0000 | 0.0003 | 0.0023 | 0.0000 |
| | 8 | 41 | 0.1574 | 0.0036 | 0.0006 | -0.0032 | -0.0054 | 0.0004 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 45 | 0.1597 | 0.0003 | 0.0006 | -0.0007 | 0.0027 | 0.0004 |
| 42 | 6 | 42 | -0.5382 | -0.0038 | -0.0031 | 0.0047 | 0.0065 | -0.0002 |
| | | 43 | -0.5359 | -0.0015 | -0.0008 | -0.0033 | -0.0047 | -0.0002 |
| | 8 | 42 | -0.8337 | -0.0029 | -0.0044 | 0.0093 | 0.0034 | 0.0005 |
| | | 43 | -0.8314 | -0.0006 | -0.0021 | -0.0043 | -0.0040 | 0.0005 |
| 43 | 6 | 43 | 0.5342 | 0.0036 | 0.0014 | -0.0008 | -0.0060 | -0.0003 |
| | | 48 | 0.5365 | 0.0013 | -0.0009 | 0.0002 | 0.0042 | -0.0003 |
| | 8 | 43 | 0.8717 | 0.0022 | 0.0026 | -0.0052 | -0.0018 | 0.0002 |
| | | 48 | 0.8740 | -0.0001 | 0.0003 | 0.0010 | 0.0026 | 0.0002 |
| 44 | 6 | 44 | -0.6949 | 0.0028 | -0.0034 | 0.0058 | -0.0046 | 0.0001 |
| | | 46 | -0.6926 | 0.0005 | -0.0011 | -0.0035 | 0.0022 | 0.0001 |
| | 8 | 44 | 0.9182 | 0.0022 | -0.0024 | 0.0019 | -0.0036 | 0.0002 |
| | | 46 | 0.9205 | -0.0002 | -0.0001 | -0.0035 | 0.0006 | 0.0002 |
| 45 | 6 | 45 | 0.0227 | -0.0044 | 0.0004 | -0.0010 | 0.0074 | -0.0002 |
| | | 47 | 0.0250 | -0.0011 | 0.0004 | 0.0006 | -0.0040 | -0.0002 |
| | 8 | 45 | -0.2897 | -0.0042 | -0.0003 | 0.0026 | 0.0071 | 0.0005 |
| | | 47 | -0.2874 | -0.0009 | -0.0003 | 0.0013 | -0.0034 | 0.0005 |
| 46 | 6 | 46 | 0.7722 | -0.0032 | 0.0028 | -0.0043 | 0.0052 | 0.0002 |
| | | 50 | 0.7745 | -0.0009 | 0.0005 | 0.0025 | -0.0032 | 0.0002 |
| | 8 | 46 | -0.9978 | -0.0039 | 0.0037 | -0.0044 | 0.0076 | 0.0005 |
| | | 50 | -0.9955 | -0.0016 | 0.0015 | 0.0065 | -0.0039 | 0.0005 |
| 47 | 6 | 47 | 0.0870 | 0.0057 | -0.0017 | 0.0036 | -0.0087 | 0.0000 |
| | | 51 | 0.0893 | 0.0024 | -0.0017 | -0.0037 | 0.0082 | 0.0000 |
| | 8 | 47 | 0.4992 | 0.0052 | -0.0004 | -0.0011 | -0.0085 | 0.0005 |
| | | 51 | 0.5014 | 0.0020 | -0.0004 | -0.0029 | 0.0066 | 0.0005 |
| 48 | 6 | 48 | -0.7583 | -0.0044 | -0.0028 | 0.0038 | 0.0069 | -0.0001 |
| | | 49 | -0.7560 | -0.0021 | -0.0005 | -0.0029 | -0.0066 | -0.0001 |
| | 8 | 48 | -0.9011 | -0.0055 | -0.0032 | 0.0055 | 0.0082 | 0.0002 |
| | | 49 | -0.8988 | -0.0032 | -0.0009 | -0.0031 | -0.0101 | 0.0002 |
| 49 | 6 | 49 | 0.7444 | -0.0014 | 0.0002 | -0.0007 | 0.0040 | 0.0009 |
| | | 54 | 0.7467 | -0.0037 | -0.0021 | -0.0049 | -0.0068 | 0.0009 |
| | 8 | 49 | 0.8864 | -0.0001 | -0.0014 | 0.0026 | 0.0025 | 0.0002 |
| | | 54 | 0.8887 | -0.0024 | -0.0038 | -0.0083 | -0.0025 | 0.0002 |
| 50 | 6 | 50 | -1.0542 | 0.0067 | -0.0047 | 0.0061 | -0.0107 | 0.0002 |
| | | 52 | -1.0519 | 0.0044 | -0.0024 | -0.0088 | 0.0124 | 0.0002 |
| | 8 | 50 | 0.9807 | 0.0007 | 0.0013 | -0.0053 | -0.0031 | 0.0019 |
| | | 52 | 0.9830 | -0.0017 | 0.0036 | 0.0049 | -0.0052 | 0.0019 |
| 51 | 6 | 51 | -0.1120 | -0.0029 | 0.0004 | -0.0016 | 0.0024 | -0.0006 |
| | | 53 | -0.1097 | 0.0004 | 0.0004 | 0.0003 | -0.0028 | -0.0006 |
| | 8 | 51 | -0.7686 | -0.0075 | 0.0002 | 0.0015 | 0.0105 | 0.0005 |
| | | 53 | -0.7663 | -0.0042 | 0.0002 | 0.0022 | -0.0140 | 0.0005 |
| 52 | 6 | 52 | 0.3849 | 0.0083 | -0.0019 | 0.0030 | -0.0180 | -0.0005 |
| | | 53 | 0.3849 | 0.0116 | -0.0019 | -0.0036 | 0.0159 | -0.0005 |
| | 8 | 52 | -0.1877 | -0.0129 | -0.0023 | 0.0038 | 0.0208 | 0.0014 |
| | | 53 | -0.1877 | -0.0096 | -0.0023 | -0.0039 | -0.0176 | 0.0014 |
| 53 | 6 | 53 | -0.0064 | 0.0006 | 0.0009 | -0.0020 | 0.0011 | 0.0013 |
| | | 54 | -0.0064 | -0.0027 | 0.0009 | 0.0011 | -0.0024 | 0.0013 |
| | 8 | 53 | 0.2716 | -0.0080 | 0.0011 | -0.0021 | 0.0172 | 0.0030 |
| | | 54 | 0.2716 | -0.0113 | 0.0011 | 0.0017 | -0.0159 | 0.0030 |
| 54 | 6 | 54 | -0.1736 | -0.0127 | -0.0014 | 0.0022 | 0.0208 | -0.0007 |
| | | 52 | -0.1736 | -0.0095 | -0.0014 | -0.0025 | -0.0173 | -0.0007 |
| | 8 | 54 | -0.3495 | -0.0103 | -0.0008 | 0.0011 | 0.0171 | 0.0038 |
| | | 52 | -0.3495 | -0.0071 | -0.0008 | -0.0015 | -0.0127 | 0.0038 |
| 55 | 6 | 58 | -0.3429 | 0.0094 | -0.0016 | 0.0024 | -0.0190 | -0.0010 |
| | | 59 | -0.3429 | 0.0127 | -0.0016 | -0.0031 | 0.0188 | -0.0010 |
| | 8 | 58 | 0.2836 | -0.0117 | -0.0020 | 0.0034 | 0.0197 | 0.0010 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 59 | 0.2836 | -0.0084 | -0.0020 | -0.0035 | -0.0147 | 0.0010 |
| 56 | 6 | 59 | 0.1540 | 0.0004 | 0.0019 | -0.0038 | 0.0005 | 0.0003 |
| | | 60 | 0.1540 | -0.0029 | 0.0019 | 0.0027 | -0.0038 | 0.0003 |
| | 8 | 59 | -0.2201 | -0.0085 | 0.0023 | -0.0044 | 0.0168 | 0.0023 |
| | | 60 | -0.2201 | -0.0117 | 0.0023 | 0.0036 | -0.0177 | 0.0023 |
| 57 | 6 | 60 | 0.2783 | -0.0112 | -0.0002 | 0.0002 | 0.0186 | -0.0015 |
| | | 58 | 0.2783 | -0.0080 | -0.0002 | -0.0007 | -0.0142 | -0.0015 |
| | 8 | 60 | 0.4328 | -0.0098 | -0.0026 | 0.0041 | 0.0168 | 0.0031 |
| | | 58 | 0.4328 | -0.0065 | -0.0026 | -0.0047 | -0.0110 | 0.0031 |
| 58 | 6 | 58 | 0.9747 | 0.0002 | -0.0014 | 0.0054 | -0.0041 | 0.0001 |
| | | 62 | 0.9770 | 0.0025 | -0.0037 | -0.0054 | 0.0017 | 0.0001 |
| | 8 | 58 | -1.1250 | -0.0067 | 0.0043 | -0.0082 | 0.0162 | 0.0016 |
| | | 62 | -1.1227 | -0.0044 | 0.0020 | 0.0051 | -0.0071 | 0.0016 |
| 59 | 6 | 59 | 0.0049 | 0.0029 | 0.0007 | -0.0005 | -0.0044 | -0.0018 |
| | | 63 | 0.0072 | -0.0003 | 0.0007 | 0.0025 | 0.0010 | -0.0018 |
| | 8 | 59 | 0.8381 | 0.0000 | 0.0020 | -0.0054 | 0.0044 | -0.0001 |
| | | 63 | 0.8404 | -0.0033 | 0.0019 | 0.0027 | -0.0026 | -0.0001 |
| 60 | 6 | 60 | -1.0970 | -0.0054 | -0.0045 | 0.0099 | 0.0119 | 0.0005 |
| | | 61 | -1.0947 | -0.0030 | -0.0022 | -0.0042 | -0.0056 | 0.0005 |
| | 8 | 60 | -1.0122 | -0.0034 | -0.0074 | 0.0156 | 0.0069 | -0.0004 |
| | | 61 | -1.0099 | -0.0011 | -0.0051 | -0.0104 | -0.0024 | -0.0004 |
| 61 | 6 | 61 | 0.9521 | 0.0052 | 0.0014 | -0.0015 | -0.0092 | -0.0006 |
| | | 66 | 0.9544 | 0.0029 | -0.0009 | -0.0004 | 0.0078 | -0.0006 |
| | 8 | 61 | 0.9132 | 0.0015 | 0.0032 | -0.0058 | -0.0004 | -0.0001 |
| | | 66 | 0.9155 | -0.0007 | 0.0009 | 0.0027 | 0.0013 | -0.0001 |
| 62 | 6 | 62 | -1.1367 | 0.0035 | -0.0049 | 0.0092 | -0.0065 | -0.0002 |
| | | 64 | -1.1344 | 0.0012 | -0.0026 | -0.0064 | 0.0034 | -0.0002 |
| | 8 | 62 | 1.0012 | 0.0040 | -0.0032 | 0.0045 | -0.0072 | -0.0001 |
| | | 64 | 1.0034 | 0.0017 | -0.0009 | -0.0041 | 0.0048 | -0.0001 |
| 63 | 6 | 63 | -0.0127 | -0.0046 | -0.0002 | -0.0012 | 0.0079 | 0.0004 |
| | | 65 | -0.0104 | -0.0013 | -0.0002 | -0.0019 | -0.0045 | 0.0004 |
| | 8 | 63 | -0.9747 | -0.0057 | -0.0001 | 0.0004 | 0.0104 | 0.0005 |
| | | 65 | -0.9725 | -0.0024 | 0.0000 | 0.0002 | -0.0065 | 0.0005 |
| 64 | 6 | 64 | 1.0993 | -0.0027 | 0.0017 | -0.0023 | 0.0032 | 0.0009 |
| | | 68 | 1.1016 | -0.0004 | -0.0006 | -0.0001 | -0.0033 | 0.0009 |
| | 8 | 64 | -0.9282 | -0.0047 | 0.0030 | -0.0037 | 0.0085 | 0.0005 |
| | | 68 | -0.9259 | -0.0024 | 0.0007 | 0.0039 | -0.0064 | 0.0005 |
| 65 | 6 | 65 | 0.0873 | 0.0039 | -0.0018 | 0.0024 | -0.0056 | -0.0011 |
| | | 69 | 0.0896 | 0.0006 | -0.0018 | -0.0052 | 0.0037 | -0.0011 |
| | 8 | 65 | 1.0827 | 0.0031 | -0.0010 | -0.0002 | -0.0039 | 0.0000 |
| | | 69 | 1.0850 | -0.0001 | -0.0010 | -0.0042 | 0.0024 | 0.0000 |
| 66 | 6 | 66 | -1.0566 | -0.0052 | -0.0023 | 0.0023 | 0.0095 | 0.0003 |
| | | 67 | -1.0543 | -0.0029 | 0.0000 | -0.0027 | -0.0074 | 0.0003 |
| | 8 | 66 | -0.8687 | -0.0036 | -0.0032 | 0.0047 | 0.0059 | 0.0003 |
| | | 67 | -0.8664 | -0.0013 | -0.0008 | -0.0037 | -0.0043 | 0.0003 |
| 67 | 6 | 67 | 1.0844 | 0.0030 | -0.0006 | 0.0022 | -0.0032 | -0.0009 |
| | | 72 | 1.0867 | 0.0006 | -0.0029 | -0.0053 | 0.0043 | -0.0009 |
| | 8 | 67 | 0.8416 | 0.0018 | 0.0009 | -0.0020 | 0.0000 | 0.0000 |
| | | 72 | 0.8439 | -0.0005 | -0.0014 | -0.0032 | 0.0026 | 0.0000 |
| 68 | 6 | 68 | -1.2859 | 0.0051 | -0.0033 | 0.0049 | -0.0096 | -0.0009 |
| | | 70 | -1.2836 | 0.0028 | -0.0010 | -0.0043 | 0.0069 | -0.0009 |
| | 8 | 68 | 0.9594 | 0.0032 | -0.0005 | -0.0012 | -0.0053 | 0.0001 |
| | | 70 | 0.9617 | 0.0009 | 0.0018 | 0.0015 | 0.0034 | 0.0001 |
| 69 | 6 | 69 | -0.0344 | -0.0032 | -0.0004 | -0.0016 | 0.0044 | 0.0019 |
| | | 71 | -0.0321 | 0.0000 | -0.0004 | -0.0031 | -0.0024 | 0.0019 |
| | 8 | 69 | -1.2681 | -0.0063 | 0.0001 | -0.0009 | 0.0111 | 0.0008 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 71 | -1.2658 | -0.0030 | 0.0002 | -0.0003 | -0.0083 | 0.0008 |
| 70 | 6 | 70 | 1.2651 | -0.0029 | -0.0014 | 0.0027 | 0.0025 | 0.0013 |
| | | 74 | 1.2674 | -0.0006 | -0.0037 | -0.0079 | -0.0046 | 0.0013 |
| | 8 | 70 | -0.9585 | -0.0062 | 0.0033 | -0.0052 | 0.0123 | 0.0007 |
| | | 74 | -0.9562 | -0.0038 | 0.0010 | 0.0038 | -0.0086 | 0.0007 |
| 71 | 6 | 71 | 0.1241 | 0.0025 | -0.0007 | -0.0021 | -0.0036 | -0.0027 |
| | | 75 | 0.1264 | -0.0008 | -0.0007 | -0.0049 | -0.0001 | -0.0027 |
| | 8 | 71 | 1.3806 | 0.0009 | -0.0015 | 0.0004 | 0.0007 | -0.0013 |
| | | 75 | 1.3829 | -0.0024 | -0.0015 | -0.0058 | -0.0025 | -0.0013 |
| 72 | 6 | 72 | -1.2517 | -0.0066 | -0.0027 | 0.0037 | 0.0137 | 0.0011 |
| | | 73 | -1.2494 | -0.0043 | -0.0004 | -0.0029 | -0.0090 | 0.0011 |
| | 8 | 72 | -0.8332 | -0.0028 | -0.0039 | 0.0062 | 0.0060 | 0.0008 |
| | | 73 | -0.8309 | -0.0005 | -0.0016 | -0.0054 | -0.0010 | 0.0008 |
| 73 | 6 | 73 | 1.2301 | 0.0079 | -0.0024 | 0.0060 | -0.0117 | -0.0030 |
| | | 78 | 1.2324 | 0.0056 | -0.0047 | -0.0087 | 0.0164 | -0.0030 |
| | 8 | 73 | 0.8763 | 0.0051 | 0.0008 | -0.0019 | -0.0057 | -0.0019 |
| | | 78 | 0.8786 | 0.0028 | -0.0015 | -0.0034 | 0.0108 | -0.0019 |
| 74 | 6 | 74 | -1.3791 | 0.0060 | -0.0031 | 0.0046 | -0.0141 | -0.0017 |
| | | 76 | -1.3768 | 0.0037 | -0.0008 | -0.0037 | 0.0063 | -0.0017 |
| | 8 | 74 | 0.9367 | 0.0044 | -0.0023 | 0.0025 | -0.0060 | -0.0008 |
| | | 76 | 0.9390 | 0.0020 | 0.0000 | -0.0023 | 0.0074 | -0.0008 |
| 75 | 6 | 75 | 0.0255 | -0.0057 | -0.0004 | -0.0053 | 0.0095 | 0.0031 |
| | | 77 | 0.0278 | -0.0024 | -0.0004 | -0.0070 | -0.0074 | 0.0031 |
| | 8 | 75 | -1.4598 | -0.0066 | 0.0016 | -0.0054 | 0.0140 | 0.0016 |
| | | 77 | -1.4575 | -0.0034 | 0.0016 | 0.0013 | -0.0070 | 0.0016 |
| 76 | 6 | 76 | 1.4435 | -0.0063 | 0.0012 | -0.0033 | 0.0068 | 0.0030 |
| | | 80 | 1.4458 | -0.0040 | -0.0011 | -0.0030 | -0.0148 | 0.0030 |
| | 8 | 76 | -1.0496 | -0.0055 | 0.0023 | -0.0021 | 0.0099 | 0.0005 |
| | | 80 | -1.0473 | -0.0031 | 0.0000 | 0.0026 | -0.0081 | 0.0005 |
| 77 | 6 | 77 | -0.0487 | 0.0049 | -0.0088 | 0.0104 | -0.0049 | -0.0064 |
| | | 81 | -0.0464 | 0.0016 | -0.0088 | -0.0264 | 0.0086 | -0.0064 |
| | 8 | 77 | 1.6764 | 0.0059 | -0.0079 | 0.0111 | -0.0077 | -0.0030 |
| | | 81 | 1.6787 | 0.0026 | -0.0079 | -0.0220 | 0.0101 | -0.0030 |
| 78 | 6 | 78 | -1.5483 | -0.0096 | 0.0020 | -0.0085 | 0.0198 | 0.0017 |
| | | 79 | -1.5460 | -0.0073 | 0.0043 | 0.0046 | -0.0154 | 0.0017 |
| | 8 | 78 | -0.9975 | -0.0082 | 0.0011 | -0.0086 | 0.0177 | 0.0009 |
| | | 79 | -0.9952 | -0.0060 | 0.0035 | 0.0011 | -0.0120 | 0.0009 |
| 79 | 6 | 79 | 1.6056 | 0.0014 | -0.0140 | 0.0199 | 0.0012 | -0.0030 |
| | | 84 | 1.6079 | -0.0009 | -0.0163 | -0.0434 | 0.0024 | -0.0030 |
| | 8 | 79 | 0.9651 | -0.0020 | -0.0145 | 0.0222 | 0.0064 | -0.0060 |
| | | 84 | 0.9674 | -0.0042 | -0.0169 | -0.0434 | -0.0066 | -0.0060 |
| 80 | 6 | 80 | -1.9668 | 0.0078 | -0.0046 | 0.0002 | -0.0168 | -0.0024 |
| | | 82 | -1.9645 | 0.0055 | -0.0022 | -0.0140 | 0.0111 | -0.0024 |
| | 8 | 80 | 1.0363 | 0.0013 | 0.0054 | -0.0120 | -0.0048 | 0.0024 |
| | | 82 | 1.0386 | -0.0010 | 0.0077 | 0.0153 | -0.0041 | 0.0024 |
| 81 | 6 | 81 | -0.1261 | 0.0083 | 0.0013 | -0.0158 | -0.0159 | 0.0059 |
| | | 83 | -0.1238 | 0.0115 | 0.0013 | -0.0105 | 0.0255 | 0.0059 |
| | 8 | 81 | -2.3052 | -0.0090 | 0.0080 | -0.0218 | 0.0120 | 0.0031 |
| | | 83 | -2.3029 | -0.0058 | 0.0080 | 0.0118 | -0.0190 | 0.0031 |
| 82 | 6 | 82 | 0.7666 | 0.0214 | -0.0178 | 0.0187 | -0.0365 | 0.0063 |
| | | 83 | 0.7666 | 0.0247 | -0.0178 | -0.0423 | 0.0423 | 0.0063 |
| | 8 | 82 | -0.6633 | -0.0196 | -0.0109 | 0.0188 | 0.0336 | 0.0012 |
| | | 83 | -0.6634 | -0.0163 | -0.0109 | -0.0185 | -0.0277 | 0.0012 |
| 83 | 6 | 83 | -1.4260 | 0.0107 | -0.0038 | -0.0166 | -0.0254 | 0.0050 |
| | | 84 | -1.4260 | 0.0075 | -0.0038 | -0.0295 | 0.0057 | 0.0050 |
| | 8 | 83 | 0.6054 | -0.0275 | -0.0141 | 0.0119 | 0.0451 | 0.0064 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 84 | 0.6054 | -0.0307 | -0.0141 | -0.0362 | -0.0544 | 0.0064 |
| 84 | 6 | 84 | -1.3244 | -0.0310 | 0.0201 | -0.0456 | 0.0552 | 0.0008 |
| | | 82 | -1.3244 | -0.0278 | 0.0201 | 0.0231 | -0.0452 | 0.0008 |
| | 8 | 84 | -1.7255 | -0.0257 | 0.0140 | -0.0361 | 0.0506 | 0.0026 |
| | | 82 | -1.7255 | -0.0224 | 0.0140 | 0.0116 | -0.0317 | 0.0026 |
| 85 | 6 | 88 | 3.1976 | 0.0299 | -0.0279 | 0.0338 | -0.0406 | 0.0107 |
| | | 89 | 3.1976 | 0.0331 | -0.0279 | -0.0616 | 0.0671 | 0.0107 |
| | 8 | 88 | 1.3709 | -0.0243 | -0.0117 | 0.0203 | 0.0506 | -0.0004 |
| | | 89 | 1.3709 | -0.0210 | -0.0117 | -0.0198 | -0.0267 | -0.0004 |
| 86 | 6 | 89 | 5.5267 | 0.0132 | -0.0004 | -0.0268 | -0.0494 | 0.0066 |
| | | 90 | 5.5267 | 0.0099 | -0.0004 | -0.0281 | -0.0100 | 0.0066 |
| | 8 | 89 | 4.1939 | -0.0380 | -0.0104 | 0.0031 | 0.0501 | 0.0111 |
| | | 90 | 4.1939 | -0.0412 | -0.0104 | -0.0325 | -0.0853 | 0.0111 |
| 87 | 6 | 90 | 2.0537 | -0.0398 | 0.0259 | -0.0579 | 0.0822 | -0.0028 |
| | | 88 | 2.0537 | -0.0365 | 0.0259 | 0.0308 | -0.0482 | -0.0028 |
| | 8 | 90 | 4.7083 | -0.0340 | 0.0162 | -0.0426 | 0.0826 | 0.0015 |
| | | 88 | 4.7083 | -0.0308 | 0.0162 | 0.0128 | -0.0281 | 0.0015 |
| 88 | 6 | 88 | -2.1839 | -0.0202 | -0.0047 | 0.0173 | 0.0297 | 0.0049 |
| | | 92 | -2.1816 | -0.0179 | -0.0070 | -0.0071 | -0.0498 | 0.0049 |
| | 8 | 88 | 1.6650 | -0.0154 | 0.0077 | -0.0205 | 0.0436 | 0.0033 |
| | | 92 | 1.6673 | -0.0131 | 0.0054 | 0.0071 | -0.0161 | 0.0033 |
| 89 | 6 | 89 | 0.6496 | 0.0318 | 0.0058 | -0.0220 | -0.0732 | -0.0165 |
| | | 93 | 0.6519 | 0.0285 | 0.0058 | 0.0023 | 0.0530 | -0.0165 |
| | 8 | 89 | -2.6934 | 0.0140 | 0.0043 | -0.0168 | -0.0121 | -0.0051 |
| | | 93 | -2.6911 | 0.0108 | 0.0042 | 0.0010 | 0.0398 | -0.0051 |
| 90 | 6 | 90 | 2.7910 | -0.0277 | -0.0046 | 0.0165 | 0.0770 | 0.0054 |
| | | 91 | 2.7933 | -0.0254 | -0.0023 | 0.0020 | -0.0341 | 0.0054 |
| | 8 | 90 | 2.0490 | -0.0310 | -0.0160 | 0.0330 | 0.0868 | -0.0035 |
| | | 91 | 2.0512 | -0.0287 | -0.0137 | -0.0293 | -0.0380 | -0.0035 |
| 91 | 6 | 91 | -3.0968 | 0.0108 | 0.0103 | -0.0208 | -0.0170 | -0.0048 |
| | | 96 | -3.0945 | 0.0085 | 0.0080 | 0.0176 | 0.0232 | -0.0048 |
| | 8 | 91 | -1.7525 | -0.0046 | 0.0103 | -0.0197 | 0.0187 | -0.0044 |
| | | 96 | -1.7502 | -0.0069 | 0.0080 | 0.0184 | -0.0053 | -0.0044 |
| 92 | 6 | 92 | 3.2072 | 0.0018 | 0.0155 | -0.0411 | -0.0028 | -0.0037 |
| | | 94 | 3.2095 | -0.0005 | 0.0178 | 0.0285 | 0.0000 | -0.0037 |
| | 8 | 92 | -1.7935 | 0.0145 | -0.0035 | 0.0050 | -0.0267 | -0.0020 |
| | | 94 | -1.7912 | 0.0121 | -0.0012 | -0.0049 | 0.0288 | -0.0020 |
| 93 | 6 | 93 | 0.2932 | 0.0029 | -0.0091 | 0.0081 | -0.0152 | 0.0046 |
| | | 95 | 0.2955 | 0.0061 | -0.0091 | -0.0298 | 0.0037 | 0.0046 |
| | 8 | 93 | 4.1052 | 0.0142 | 0.0006 | -0.0080 | -0.0376 | 0.0039 |
| | | 95 | 4.1075 | 0.0175 | 0.0007 | -0.0052 | 0.0286 | 0.0039 |
| 94 | 6 | 94 | -3.2763 | -0.0075 | 0.0021 | -0.0054 | 0.0136 | 0.0014 |
| | | 98 | -3.2740 | -0.0052 | -0.0002 | -0.0015 | -0.0130 | 0.0014 |
| | 8 | 94 | 2.0671 | -0.0035 | -0.0051 | 0.0137 | 0.0039 | -0.0007 |
| | | 98 | 2.0694 | -0.0012 | -0.0074 | -0.0124 | -0.0059 | -0.0007 |
| 95 | 6 | 95 | -0.0292 | -0.0019 | 0.0036 | -0.0123 | 0.0056 | -0.0056 |
| | | 99 | -0.0269 | -0.0052 | 0.0036 | 0.0025 | -0.0092 | -0.0056 |
| | 8 | 95 | -4.0561 | 0.0080 | -0.0012 | -0.0015 | -0.0168 | -0.0024 |
| | | 99 | -4.0538 | 0.0047 | -0.0012 | -0.0065 | 0.0097 | -0.0024 |
| 96 | 6 | 96 | 3.2237 | 0.0003 | 0.0053 | -0.0187 | -0.0003 | 0.0014 |
| | | 97 | 3.2260 | 0.0026 | 0.0076 | 0.0084 | 0.0059 | 0.0014 |
| | 8 | 96 | 1.9933 | 0.0026 | 0.0027 | -0.0123 | -0.0020 | 0.0008 |
| | | 97 | 1.9956 | 0.0049 | 0.0050 | 0.0039 | 0.0136 | 0.0008 |
| 97 | 6 | 97 | -3.1796 | 0.0081 | 0.0027 | -0.0051 | -0.0132 | -0.0010 |
| | | 102 | -3.1773 | 0.0058 | 0.0005 | 0.0016 | 0.0160 | -0.0010 |
| | 8 | 97 | -2.1089 | 0.0078 | 0.0042 | -0.0097 | -0.0134 | -0.0017 |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 102 | -2.1066 | 0.0056 | 0.0019 | 0.0030 | 0.0146 | -0.0017 |
| 98 | 6 | 98 | 2.8724 | 0.0037 | 0.0021 | -0.0060 | -0.0089 | -0.0019 |
| | | 100 | 2.8746 | 0.0014 | 0.0044 | 0.0077 | 0.0018 | -0.0019 |
| | 8 | 98 | -2.0239 | 0.0071 | -0.0024 | 0.0029 | -0.0124 | -0.0001 |
| | | 100 | -2.0216 | 0.0047 | -0.0001 | -0.0024 | 0.0124 | -0.0001 |
| 99 | 6 | 99 | -0.0682 | -0.0062 | 0.0037 | -0.0126 | 0.0127 | 0.0025 |
| | | 101 | -0.0659 | -0.0030 | 0.0037 | 0.0030 | -0.0066 | 0.0025 |
| | 8 | 99 | 3.6162 | -0.0014 | 0.0018 | -0.0084 | 0.0032 | 0.0013 |
| | | 101 | 3.6185 | 0.0019 | 0.0018 | -0.0008 | 0.0043 | 0.0013 |
| 100 | 6 | 100 | -2.8632 | -0.0079 | 0.0047 | -0.0087 | 0.0141 | 0.0006 |
| | | 104 | -2.8609 | -0.0056 | 0.0024 | 0.0060 | -0.0142 | 0.0006 |
| | 8 | 100 | 1.9700 | -0.0021 | -0.0022 | 0.0055 | 0.0028 | -0.0003 |
| | | 104 | 1.9723 | 0.0002 | -0.0045 | -0.0086 | -0.0010 | -0.0003 |
| 101 | 6 | 101 | 0.1467 | 0.0042 | -0.0006 | -0.0019 | -0.0059 | -0.0015 |
| | | 105 | 0.1490 | 0.0009 | -0.0006 | -0.0043 | 0.0048 | -0.0015 |
| | 8 | 101 | -3.4117 | 0.0106 | -0.0006 | -0.0008 | -0.0192 | -0.0015 |
| | | 105 | -3.4094 | 0.0073 | -0.0006 | -0.0034 | 0.0182 | -0.0015 |
| 102 | 6 | 102 | 2.8956 | -0.0012 | 0.0036 | -0.0105 | 0.0027 | 0.0011 |
| | | 103 | 2.8979 | 0.0011 | 0.0059 | 0.0096 | 0.0023 | 0.0011 |
| | 8 | 102 | 2.0773 | -0.0024 | 0.0007 | -0.0060 | 0.0054 | 0.0015 |
| | | 103 | 2.0795 | -0.0001 | 0.0031 | 0.0019 | 0.0000 | 0.0015 |
| 103 | 6 | 103 | -2.8916 | 0.0064 | 0.0043 | -0.0090 | -0.0120 | -0.0006 |
| | | 108 | -2.8893 | 0.0041 | 0.0020 | 0.0042 | 0.0099 | -0.0006 |
| | 8 | 103 | -2.0433 | 0.0039 | 0.0028 | -0.0061 | -0.0057 | -0.0017 |
| | | 108 | -2.0410 | 0.0016 | 0.0005 | 0.0008 | 0.0059 | -0.0017 |
| 104 | 6 | 104 | 2.6876 | 0.0007 | 0.0017 | -0.0065 | 0.0003 | -0.0006 |
| | | 106 | 2.6899 | -0.0016 | 0.0040 | 0.0053 | -0.0014 | -0.0006 |
| | 8 | 104 | -1.9685 | 0.0073 | -0.0026 | 0.0050 | -0.0139 | -0.0001 |
| | | 106 | -1.9662 | 0.0050 | -0.0003 | -0.0011 | 0.0119 | -0.0001 |
| 105 | 6 | 105 | 0.0217 | -0.0027 | 0.0013 | -0.0049 | 0.0031 | 0.0008 |
| | | 107 | 0.0240 | 0.0005 | 0.0013 | 0.0007 | -0.0014 | 0.0008 |
| | 8 | 105 | 3.2600 | 0.0014 | 0.0013 | -0.0062 | -0.0065 | 0.0010 |
| | | 107 | 3.2623 | 0.0046 | 0.0013 | -0.0008 | 0.0060 | 0.0010 |
| 106 | 6 | 106 | -2.7335 | -0.0055 | 0.0050 | -0.0088 | 0.0091 | -0.0002 |
| | | 110 | -2.7312 | -0.0032 | 0.0027 | 0.0072 | -0.0089 | -0.0002 |
| | 8 | 106 | 2.0295 | -0.0027 | -0.0005 | 0.0016 | 0.0030 | -0.0007 |
| | | 110 | 2.0317 | -0.0004 | -0.0028 | -0.0052 | -0.0034 | -0.0007 |
| 107 | 6 | 107 | 0.0959 | 0.0048 | 0.0006 | -0.0030 | -0.0077 | -0.0002 |
| | | 111 | 0.0982 | 0.0015 | 0.0006 | -0.0006 | 0.0056 | -0.0002 |
| | 8 | 107 | -3.1164 | 0.0085 | -0.0005 | -0.0010 | -0.0153 | -0.0018 |
| | | 111 | -3.1141 | 0.0052 | -0.0006 | -0.0032 | 0.0135 | -0.0018 |
| 108 | 6 | 108 | 2.7162 | -0.0025 | 0.0015 | -0.0059 | 0.0042 | 0.0002 |
| | | 109 | 2.7185 | -0.0001 | 0.0038 | 0.0053 | -0.0012 | 0.0002 |
| | 8 | 108 | 2.1239 | -0.0013 | -0.0024 | 0.0018 | 0.0039 | 0.0017 |
| | | 109 | 2.1262 | 0.0010 | -0.0001 | -0.0035 | 0.0033 | 0.0017 |
| 109 | 6 | 109 | -2.7644 | 0.0080 | 0.0056 | -0.0092 | -0.0135 | -0.0005 |
| | | 114 | -2.7621 | 0.0057 | 0.0033 | 0.0094 | 0.0152 | -0.0005 |
| | 8 | 109 | -2.1825 | 0.0076 | 0.0086 | -0.0159 | -0.0113 | -0.0030 |
| | | 114 | -2.1802 | 0.0053 | 0.0063 | 0.0152 | 0.0158 | -0.0030 |
| 110 | 6 | 110 | 2.4313 | -0.0025 | 0.0040 | -0.0097 | 0.0056 | 0.0005 |
| | | 112 | 2.4335 | -0.0048 | 0.0063 | 0.0117 | -0.0098 | 0.0005 |
| | 8 | 110 | -2.0929 | 0.0083 | -0.0048 | 0.0081 | -0.0125 | -0.0009 |
| | | 112 | -2.0906 | 0.0059 | -0.0025 | -0.0072 | 0.0173 | -0.0009 |
| 111 | 6 | 111 | -0.0757 | -0.0041 | -0.0012 | 0.0019 | 0.0057 | 0.0004 |
| | | 113 | -0.0734 | -0.0009 | -0.0012 | -0.0033 | -0.0048 | 0.0004 |
| | 8 | 111 | 2.8311 | 0.0042 | -0.0013 | -0.0014 | -0.0099 | 0.0017 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 113 | 2.8334 | 0.0075 | -0.0013 | -0.0067 | 0.0145 | 0.0017 |
| 112 | 6 | 112 | -0.9557 | -0.0150 | -0.0014 | 0.0023 | 0.0290 | 0.0003 |
| | | 113 | -0.9545 | -0.0137 | -0.0014 | -0.0023 | -0.0235 | 0.0003 |
| | 8 | 112 | 0.2779 | 0.0144 | 0.0013 | 0.0072 | -0.0265 | -0.0008 |
| | | 113 | 0.2678 | 0.0168 | -0.0041 | -0.0069 | 0.0255 | -0.0008 |
| 113 | 6 | 113 | 0.5499 | 0.0023 | 0.0017 | -0.0037 | -0.0007 | -0.0014 |
| | | 114 | 0.5500 | -0.0009 | 0.0017 | 0.0022 | 0.0016 | -0.0014 |
| | 8 | 113 | -0.8570 | 0.0165 | 0.0078 | -0.0004 | -0.0323 | -0.0039 |
| | | 114 | -0.8557 | 0.0160 | -0.0030 | -0.0108 | 0.0280 | -0.0039 |
| 114 | 6 | 114 | 0.5910 | 0.0160 | 0.0013 | -0.0030 | -0.0269 | 0.0017 |
| | | 112 | 0.5898 | 0.0170 | 0.0013 | 0.0015 | 0.0257 | 0.0017 |
| | 8 | 114 | 1.1033 | 0.0126 | 0.0086 | -0.0101 | -0.0256 | -0.0042 |
| | | 112 | 1.1131 | 0.0152 | 0.0026 | -0.0013 | 0.0206 | -0.0042 |
| 115 | 6 | 118 | 0.1927 | -0.0140 | -0.0015 | 0.0026 | 0.0249 | 0.0003 |
| | | 119 | 0.1927 | -0.0108 | -0.0015 | -0.0027 | -0.0175 | 0.0003 |
| | 8 | 118 | -0.2432 | 0.0133 | -0.0053 | 0.0092 | -0.0257 | -0.0009 |
| | | 119 | -0.2433 | 0.0166 | -0.0053 | -0.0088 | 0.0254 | -0.0009 |
| 116 | 6 | 119 | 0.1006 | 0.0026 | -0.0003 | -0.0003 | -0.0024 | -0.0025 |
| | | 120 | 0.1006 | -0.0006 | -0.0003 | -0.0012 | 0.0011 | -0.0025 |
| | 8 | 119 | 0.0991 | 0.0166 | -0.0068 | 0.0053 | -0.0292 | -0.0041 |
| | | 120 | 0.0991 | 0.0134 | -0.0068 | -0.0180 | 0.0221 | -0.0041 |
| 117 | 6 | 120 | -0.1755 | 0.0133 | -0.0002 | -0.0004 | -0.0264 | 0.0010 |
| | | 118 | -0.1755 | 0.0165 | -0.0002 | -0.0010 | 0.0246 | 0.0010 |
| | 8 | 120 | -0.3638 | 0.0112 | 0.0068 | -0.0182 | -0.0236 | -0.0051 |
| | | 118 | -0.3638 | 0.0144 | 0.0068 | 0.0051 | 0.0202 | -0.0051 |
| 118 | 6 | 118 | -1.0218 | -0.0070 | 0.0053 | -0.0129 | 0.0158 | -0.0006 |
| | | 122 | -1.0195 | -0.0047 | 0.0030 | 0.0045 | -0.0088 | -0.0006 |
| | 8 | 118 | 1.1952 | -0.0007 | -0.0041 | 0.0096 | -0.0058 | -0.0033 |
| | | 122 | 1.1975 | 0.0016 | -0.0064 | -0.0124 | -0.0038 | -0.0033 |
| 119 | 6 | 119 | -0.1037 | 0.0025 | -0.0023 | 0.0030 | -0.0044 | 0.0012 |
| | | 123 | -0.1014 | -0.0007 | -0.0023 | -0.0066 | -0.0007 | 0.0012 |
| | 8 | 119 | -0.8736 | 0.0093 | -0.0037 | 0.0065 | -0.0230 | -0.0020 |
| | | 123 | -0.8713 | 0.0061 | -0.0038 | -0.0092 | 0.0092 | -0.0020 |
| 120 | 6 | 120 | 0.7613 | 0.0025 | 0.0015 | -0.0095 | -0.0086 | -0.0014 |
| | | 121 | 0.7636 | 0.0048 | 0.0038 | 0.0017 | 0.0066 | -0.0014 |
| | 8 | 120 | 1.1950 | -0.0020 | 0.0060 | -0.0206 | 0.0048 | 0.0028 |
| | | 121 | 1.1973 | 0.0003 | 0.0083 | 0.0093 | 0.0014 | 0.0028 |
| 121 | 6 | 121 | -0.7197 | 0.0040 | 0.0002 | -0.0006 | -0.0068 | 0.0000 |
| | | 126 | -0.7174 | 0.0017 | -0.0021 | -0.0046 | 0.0049 | 0.0000 |
| | 8 | 121 | -1.1988 | 0.0076 | 0.0012 | -0.0027 | -0.0151 | -0.0026 |
| | | 126 | -1.1965 | 0.0053 | -0.0011 | -0.0024 | 0.0117 | -0.0026 |
| 122 | 6 | 122 | 0.6867 | 0.0034 | -0.0012 | -0.0001 | -0.0045 | 0.0003 |
| | | 124 | 0.6890 | 0.0011 | 0.0011 | -0.0003 | 0.0049 | 0.0003 |
| | 8 | 122 | -1.1480 | 0.0043 | -0.0009 | 0.0023 | -0.0063 | 0.0003 |
| | | 124 | -1.1457 | 0.0020 | 0.0014 | 0.0033 | 0.0067 | 0.0003 |
| 123 | 6 | 123 | 0.0939 | -0.0064 | 0.0028 | -0.0069 | 0.0122 | -0.0004 |
| | | 125 | 0.0962 | -0.0031 | 0.0028 | 0.0046 | -0.0076 | -0.0004 |
| | 8 | 123 | 0.5061 | -0.0055 | 0.0027 | -0.0114 | 0.0080 | 0.0011 |
| | | 125 | 0.5083 | -0.0022 | 0.0027 | -0.0001 | -0.0081 | 0.0011 |
| 124 | 6 | 124 | -0.6054 | -0.0029 | 0.0015 | -0.0020 | 0.0044 | -0.0006 |
| | | 128 | -0.6031 | -0.0006 | -0.0008 | -0.0005 | -0.0029 | -0.0006 |
| | 8 | 124 | 1.0659 | -0.0021 | -0.0003 | 0.0000 | 0.0011 | -0.0012 |
| | | 128 | 1.0682 | 0.0003 | -0.0026 | -0.0060 | -0.0026 | -0.0012 |
| 125 | 6 | 125 | 0.0397 | 0.0052 | -0.0020 | 0.0019 | -0.0078 | 0.0002 |
| | | 129 | 0.0420 | 0.0019 | -0.0020 | -0.0063 | 0.0071 | 0.0002 |
| | 8 | 125 | -0.2185 | 0.0035 | -0.0012 | 0.0022 | -0.0052 | -0.0025 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 129 | -0.2162 | 0.0003 | -0.0012 | -0.0028 | 0.0027 | -0.0025 |
| 126 | 6 | 126 | 0.3972 | -0.0040 | 0.0000 | -0.0025 | 0.0074 | 0.0006 |
| | | 127 | 0.3995 | -0.0017 | 0.0023 | 0.0025 | -0.0046 | 0.0006 |
| | 8 | 126 | 1.1417 | -0.0042 | -0.0016 | -0.0018 | 0.0103 | 0.0021 |
| | | 127 | 1.1440 | -0.0019 | 0.0007 | -0.0038 | -0.0024 | 0.0021 |
| 127 | 6 | 127 | -0.4181 | 0.0051 | 0.0005 | -0.0022 | -0.0080 | -0.0009 |
| | | 132 | -0.4158 | 0.0028 | -0.0018 | -0.0050 | 0.0086 | -0.0009 |
| | 8 | 127 | -1.1000 | 0.0054 | 0.0029 | -0.0049 | -0.0095 | -0.0036 |
| | | 132 | -1.0977 | 0.0031 | 0.0006 | 0.0024 | 0.0083 | -0.0036 |
| 128 | 6 | 128 | 0.3522 | 0.0024 | -0.0008 | -0.0009 | -0.0028 | 0.0007 |
| | | 130 | 0.3545 | 0.0000 | 0.0015 | 0.0007 | 0.0023 | 0.0007 |
| | 8 | 128 | -1.0864 | 0.0057 | -0.0021 | 0.0049 | -0.0090 | 0.0001 |
| | | 130 | -1.0841 | 0.0034 | 0.0002 | 0.0009 | 0.0100 | 0.0001 |
| 129 | 6 | 129 | 0.1046 | -0.0034 | 0.0013 | -0.0046 | 0.0043 | 0.0002 |
| | | 131 | 0.1069 | -0.0002 | 0.0013 | 0.0009 | -0.0032 | 0.0002 |
| | 8 | 129 | 0.0215 | -0.0033 | 0.0011 | -0.0081 | 0.0031 | 0.0011 |
| | | 131 | 0.0237 | -0.0001 | 0.0011 | -0.0035 | -0.0040 | 0.0011 |
| 130 | 6 | 130 | -0.3707 | -0.0036 | 0.0015 | -0.0024 | 0.0067 | -0.0004 |
| | | 134 | -0.3684 | -0.0013 | -0.0008 | -0.0008 | -0.0036 | -0.0004 |
| | 8 | 130 | 1.0683 | -0.0026 | -0.0014 | 0.0026 | 0.0007 | -0.0017 |
| | | 134 | 1.0706 | -0.0003 | -0.0036 | -0.0078 | -0.0055 | -0.0017 |
| 131 | 6 | 131 | 0.0122 | 0.0038 | -0.0041 | 0.0045 | -0.0063 | -0.0012 |
| | | 135 | 0.0145 | 0.0006 | -0.0041 | -0.0125 | 0.0029 | -0.0012 |
| | 8 | 131 | 0.1379 | 0.0036 | -0.0035 | 0.0055 | -0.0066 | -0.0033 |
| | | 135 | 0.1402 | 0.0004 | -0.0035 | -0.0091 | 0.0018 | -0.0033 |
| 132 | 6 | 132 | 0.1892 | -0.0040 | 0.0000 | -0.0044 | 0.0078 | 0.0010 |
| | | 133 | 0.1915 | -0.0017 | 0.0023 | 0.0005 | -0.0040 | 0.0010 |
| | 8 | 132 | 1.1026 | -0.0034 | -0.0003 | -0.0062 | 0.0095 | 0.0020 |
| | | 133 | 1.1049 | -0.0011 | 0.0021 | -0.0024 | 0.0001 | 0.0020 |
| 133 | 6 | 133 | -0.1858 | 0.0084 | -0.0032 | 0.0039 | -0.0122 | -0.0029 |
| | | 138 | -0.1835 | 0.0060 | -0.0055 | -0.0143 | 0.0179 | -0.0029 |
| | 8 | 133 | -1.1024 | 0.0081 | -0.0005 | -0.0003 | -0.0142 | -0.0053 |
| | | 138 | -1.1001 | 0.0058 | -0.0029 | -0.0074 | 0.0149 | -0.0053 |
| 134 | 6 | 134 | 0.1022 | 0.0030 | -0.0004 | -0.0015 | -0.0042 | 0.0006 |
| | | 136 | 0.1045 | 0.0007 | 0.0019 | 0.0015 | 0.0036 | 0.0006 |
| | 8 | 134 | -1.0749 | 0.0044 | -0.0003 | 0.0015 | -0.0063 | 0.0002 |
| | | 136 | -1.0726 | 0.0020 | 0.0020 | 0.0050 | 0.0071 | 0.0002 |
| 135 | 6 | 135 | 0.1169 | -0.0052 | 0.0041 | -0.0128 | 0.0091 | 0.0010 |
| | | 137 | 0.1192 | -0.0019 | 0.0041 | 0.0044 | -0.0057 | 0.0010 |
| | 8 | 135 | -0.4127 | -0.0037 | 0.0026 | -0.0135 | 0.0043 | 0.0019 |
| | | 137 | -0.4104 | -0.0004 | 0.0027 | -0.0024 | -0.0042 | 0.0019 |
| 136 | 6 | 136 | -0.0648 | -0.0037 | 0.0011 | -0.0015 | 0.0071 | -0.0006 |
| | | 140 | -0.0625 | -0.0014 | -0.0012 | -0.0018 | -0.0035 | -0.0006 |
| | 8 | 136 | 1.1439 | -0.0043 | -0.0023 | 0.0033 | 0.0047 | -0.0016 |
| | | 140 | 1.1462 | -0.0020 | -0.0045 | -0.0109 | -0.0083 | -0.0016 |
| 137 | 6 | 137 | 0.0130 | 0.0063 | -0.0121 | 0.0161 | -0.0098 | -0.0034 |
| | | 141 | 0.0153 | 0.0031 | -0.0121 | -0.0345 | 0.0099 | -0.0034 |
| | 8 | 137 | 0.6628 | 0.0032 | -0.0070 | 0.0085 | -0.0064 | -0.0059 |
| | | 141 | 0.6651 | 0.0000 | -0.0071 | -0.0209 | 0.0003 | -0.0059 |
| 138 | 6 | 138 | -0.1192 | -0.0079 | 0.0041 | -0.0155 | 0.0178 | 0.0026 |
| | | 139 | -0.1169 | -0.0056 | 0.0064 | 0.0064 | -0.0104 | 0.0026 |
| | 8 | 138 | 1.1914 | -0.0060 | -0.0003 | -0.0077 | 0.0170 | 0.0042 |
| | | 139 | 1.1937 | -0.0037 | 0.0020 | -0.0044 | -0.0032 | 0.0042 |
| 139 | 6 | 139 | 0.0893 | 0.0033 | -0.0025 | 0.0012 | -0.0029 | -0.0014 |
| | | 144 | 0.0916 | 0.0010 | -0.0048 | -0.0139 | 0.0063 | -0.0014 |
| | 8 | 139 | -1.3027 | 0.0066 | 0.0056 | -0.0089 | -0.0105 | -0.0057 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 144 | -1.3004 | 0.0043 | 0.0033 | 0.0098 | 0.0123 | -0.0057 |
| 140 | 6 | 140 | -0.2279 | 0.0046 | -0.0015 | -0.0001 | -0.0069 | 0.0008 |
| | | 142 | -0.2256 | 0.0022 | 0.0008 | -0.0014 | 0.0074 | 0.0008 |
| | 8 | 140 | -1.1898 | 0.0103 | 0.0000 | 0.0005 | -0.0161 | -0.0008 |
| | | 142 | -1.1875 | 0.0079 | 0.0023 | 0.0053 | 0.0220 | -0.0008 |
| 141 | 6 | 141 | -0.0090 | -0.0029 | 0.0118 | -0.0329 | 0.0023 | 0.0037 |
| | | 143 | -0.0067 | 0.0004 | 0.0118 | 0.0163 | -0.0028 | 0.0037 |
| | 8 | 141 | -1.0880 | -0.0081 | 0.0058 | -0.0266 | 0.0113 | 0.0035 |
| | | 143 | -1.0857 | -0.0049 | 0.0059 | -0.0021 | -0.0159 | 0.0035 |
| 142 | 6 | 142 | 0.0722 | 0.0010 | -0.0036 | 0.0067 | -0.0043 | 0.0002 |
| | | 143 | 0.0722 | 0.0043 | -0.0036 | -0.0056 | 0.0047 | 0.0002 |
| | 8 | 142 | 0.3789 | 0.0074 | -0.0082 | 0.0140 | -0.0164 | -0.0072 |
| | | 143 | 0.3789 | 0.0106 | -0.0082 | -0.0140 | 0.0143 | -0.0072 |
| 143 | 6 | 143 | 0.0600 | 0.0019 | -0.0082 | 0.0080 | -0.0008 | 0.0014 |
| | | 144 | 0.0600 | -0.0014 | -0.0082 | -0.0200 | 0.0000 | 0.0014 |
| | 8 | 143 | 0.3683 | -0.0074 | -0.0062 | 0.0023 | 0.0167 | -0.0076 |
| | | 144 | 0.3683 | -0.0107 | -0.0062 | -0.0191 | -0.0141 | -0.0076 |
| 144 | 6 | 144 | -0.0931 | -0.0067 | 0.0071 | -0.0187 | 0.0104 | 0.0006 |
| | | 142 | -0.0931 | -0.0035 | 0.0071 | 0.0055 | -0.0071 | 0.0006 |
| | 8 | 144 | 0.4967 | 0.0081 | 0.0064 | -0.0193 | -0.0182 | -0.0072 |
| | | 142 | 0.4967 | 0.0114 | 0.0064 | 0.0025 | 0.0152 | -0.0072 |
| 145 | 6 | 148 | -0.1318 | 0.0019 | -0.0033 | 0.0063 | -0.0051 | 0.0001 |
| | | 149 | -0.1318 | 0.0051 | -0.0033 | -0.0049 | 0.0068 | 0.0001 |
| | 8 | 148 | -0.3856 | 0.0075 | -0.0051 | 0.0087 | -0.0161 | -0.0076 |
| | | 149 | -0.3856 | 0.0107 | -0.0051 | -0.0086 | 0.0150 | -0.0076 |
| 146 | 6 | 149 | 0.1270 | 0.0015 | -0.0059 | 0.0054 | -0.0014 | 0.0003 |
| | | 150 | 0.1270 | -0.0018 | -0.0059 | -0.0149 | -0.0018 | 0.0003 |
| | 8 | 149 | -0.4087 | -0.0078 | -0.0079 | 0.0061 | 0.0165 | -0.0078 |
| | | 150 | -0.4087 | -0.0111 | -0.0079 | -0.0209 | -0.0159 | -0.0078 |
| 147 | 6 | 150 | 0.1561 | -0.0053 | 0.0052 | -0.0144 | 0.0078 | -0.0004 |
| | | 148 | 0.1561 | -0.0020 | 0.0052 | 0.0035 | -0.0048 | -0.0004 |
| | 8 | 150 | -0.3705 | 0.0091 | 0.0079 | -0.0209 | -0.0189 | -0.0079 |
| | | 148 | -0.3705 | 0.0124 | 0.0079 | 0.0060 | 0.0178 | -0.0079 |
| 148 | 6 | 148 | 0.3055 | -0.0020 | 0.0001 | 0.0015 | 0.0035 | -0.0009 |
| | | 152 | 0.3078 | 0.0003 | -0.0021 | -0.0027 | -0.0002 | -0.0009 |
| | 8 | 148 | 1.1790 | 0.0011 | -0.0019 | 0.0024 | -0.0100 | -0.0031 |
| | | 152 | 1.1813 | 0.0035 | -0.0042 | -0.0105 | -0.0003 | -0.0031 |
| 149 | 6 | 149 | -0.0748 | 0.0035 | -0.0017 | 0.0014 | -0.0061 | -0.0009 |
| | | 153 | -0.0725 | 0.0002 | -0.0017 | -0.0055 | 0.0016 | -0.0009 |
| | 8 | 149 | 1.3447 | -0.0016 | -0.0061 | 0.0139 | 0.0052 | -0.0044 |
| | | 153 | 1.3470 | -0.0048 | -0.0061 | -0.0115 | -0.0083 | -0.0044 |
| 150 | 6 | 150 | -0.4980 | -0.0050 | -0.0008 | -0.0027 | 0.0120 | 0.0017 |
| | | 151 | -0.4957 | -0.0027 | 0.0015 | -0.0012 | -0.0043 | 0.0017 |
| | 8 | 150 | 1.1842 | -0.0036 | 0.0059 | -0.0228 | 0.0119 | 0.0013 |
| | | 151 | 1.1865 | -0.0013 | 0.0082 | 0.0068 | 0.0018 | 0.0013 |
| 151 | 6 | 151 | 0.4216 | 0.0042 | 0.0011 | -0.0025 | -0.0065 | -0.0006 |
| | | 156 | 0.4239 | 0.0019 | -0.0012 | -0.0027 | 0.0063 | -0.0006 |
| | 8 | 151 | -1.2300 | 0.0088 | 0.0000 | 0.0004 | -0.0190 | -0.0045 |
| | | 156 | -1.2277 | 0.0065 | -0.0023 | -0.0043 | 0.0130 | -0.0045 |
| 152 | 6 | 152 | -0.5314 | 0.0031 | -0.0024 | 0.0032 | -0.0036 | 0.0011 |
| | | 154 | -0.5291 | 0.0008 | -0.0001 | -0.0018 | 0.0043 | 0.0011 |
| | 8 | 152 | -1.1550 | 0.0034 | -0.0028 | 0.0079 | -0.0035 | 0.0000 |
| | | 154 | -1.1527 | 0.0011 | -0.0005 | 0.0010 | 0.0061 | 0.0000 |
| 153 | 6 | 153 | 0.0369 | -0.0058 | 0.0039 | -0.0100 | 0.0106 | -0.0007 |
| | | 155 | 0.0392 | -0.0025 | 0.0039 | 0.0063 | -0.0068 | -0.0007 |
| | 8 | 153 | -1.5553 | -0.0067 | 0.0054 | -0.0205 | 0.0109 | 0.0012 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 155 | -1.5530 | -0.0034 | 0.0054 | 0.0020 | -0.0101 | 0.0012 |
| 154 | 6 | 154 | 0.5344 | -0.0007 | 0.0029 | -0.0034 | 0.0019 | -0.0017 |
| | | 158 | 0.5367 | 0.0016 | 0.0006 | 0.0038 | 0.0038 | -0.0017 |
| | 8 | 154 | 1.1145 | -0.0022 | 0.0000 | -0.0018 | -0.0012 | -0.0022 |
| | | 158 | 1.1168 | 0.0001 | -0.0022 | -0.0064 | -0.0057 | -0.0022 |
| 155 | 6 | 155 | 0.0669 | 0.0038 | -0.0029 | 0.0064 | -0.0059 | 0.0010 |
| | | 159 | 0.0692 | 0.0005 | -0.0029 | -0.0059 | 0.0032 | 0.0010 |
| | 8 | 155 | 1.6686 | 0.0025 | -0.0045 | 0.0087 | -0.0034 | -0.0039 |
| | | 159 | 1.6709 | -0.0007 | -0.0046 | -0.0103 | 0.0004 | -0.0039 |
| 156 | 6 | 156 | -0.6351 | -0.0037 | -0.0009 | -0.0022 | 0.0063 | 0.0005 |
| | | 157 | -0.6328 | -0.0014 | 0.0014 | -0.0012 | -0.0045 | 0.0005 |
| | 8 | 156 | 1.2080 | -0.0059 | 0.0003 | -0.0087 | 0.0168 | 0.0023 |
| | | 157 | 1.2103 | -0.0036 | 0.0026 | -0.0025 | -0.0031 | 0.0023 |
| 157 | 6 | 157 | 0.6402 | 0.0018 | 0.0003 | -0.0003 | -0.0023 | 0.0002 |
| | | 162 | 0.6425 | -0.0005 | -0.0020 | -0.0040 | 0.0006 | 0.0002 |
| | 8 | 157 | -1.1798 | 0.0077 | 0.0008 | -0.0012 | -0.0136 | -0.0064 |
| | | 162 | -1.1775 | 0.0054 | -0.0015 | -0.0026 | 0.0136 | -0.0064 |
| 158 | 6 | 158 | -0.8213 | 0.0020 | -0.0038 | 0.0069 | -0.0001 | 0.0017 |
| | | 160 | -0.8190 | -0.0003 | -0.0015 | -0.0041 | 0.0035 | 0.0017 |
| | 8 | 158 | -1.1390 | 0.0041 | -0.0011 | 0.0041 | -0.0036 | -0.0006 |
| | | 160 | -1.1367 | 0.0018 | 0.0012 | 0.0043 | 0.0087 | -0.0006 |
| 159 | 6 | 159 | 0.1325 | -0.0037 | 0.0054 | -0.0090 | 0.0066 | -0.0020 |
| | | 161 | 0.1348 | -0.0005 | 0.0054 | 0.0135 | -0.0021 | -0.0020 |
| | 8 | 159 | -2.0358 | -0.0034 | 0.0032 | -0.0166 | 0.0033 | 0.0020 |
| | | 161 | -2.0335 | -0.0001 | 0.0032 | -0.0033 | -0.0040 | 0.0020 |
| 160 | 6 | 160 | 0.8083 | 0.0012 | 0.0033 | -0.0024 | -0.0003 | -0.0034 |
| | | 164 | 0.8106 | 0.0035 | 0.0010 | 0.0067 | 0.0097 | -0.0034 |
| | 8 | 160 | 1.1370 | -0.0040 | -0.0027 | 0.0035 | 0.0021 | -0.0028 |
| | | 164 | 1.1393 | -0.0017 | -0.0050 | -0.0125 | -0.0100 | -0.0028 |
| 161 | 6 | 161 | 0.1132 | 0.0057 | -0.0034 | 0.0094 | -0.0102 | 0.0030 |
| | | 165 | 0.1155 | 0.0024 | -0.0034 | -0.0047 | 0.0068 | 0.0030 |
| | 8 | 161 | 2.4326 | -0.0001 | -0.0018 | 0.0049 | -0.0012 | -0.0041 |
| | | 165 | 2.4349 | -0.0033 | -0.0018 | -0.0026 | -0.0084 | -0.0041 |
| 162 | 6 | 162 | -1.1473 | -0.0042 | -0.0026 | 0.0027 | 0.0071 | -0.0001 |
| | | 163 | -1.1450 | -0.0019 | -0.0003 | -0.0034 | -0.0055 | -0.0001 |
| | 8 | 162 | 1.1639 | -0.0050 | 0.0026 | -0.0163 | 0.0171 | 0.0030 |
| | | 163 | 1.1662 | -0.0027 | 0.0049 | -0.0006 | 0.0009 | 0.0030 |
| 163 | 6 | 163 | 1.1325 | 0.0010 | 0.0009 | -0.0009 | -0.0009 | -0.0001 |
| | | 168 | 1.1348 | -0.0013 | -0.0014 | -0.0018 | -0.0016 | -0.0001 |
| | 8 | 163 | -1.1521 | 0.0059 | 0.0028 | -0.0022 | -0.0139 | -0.0041 |
| | | 168 | -1.1498 | 0.0036 | 0.0005 | 0.0046 | 0.0060 | -0.0041 |
| 164 | 6 | 164 | -1.4889 | 0.0006 | -0.0055 | 0.0129 | 0.0044 | 0.0033 |
| | | 166 | -1.4866 | -0.0018 | -0.0032 | -0.0052 | 0.0019 | 0.0033 |
| | 8 | 164 | -1.1191 | 0.0056 | -0.0001 | 0.0027 | -0.0061 | -0.0009 |
| | | 166 | -1.1168 | 0.0033 | 0.0022 | 0.0071 | 0.0124 | -0.0009 |
| 165 | 6 | 165 | 0.1129 | -0.0045 | 0.0026 | -0.0030 | 0.0065 | -0.0025 |
| | | 167 | 0.1152 | -0.0012 | 0.0026 | 0.0079 | -0.0055 | -0.0025 |
| | 8 | 165 | -2.8407 | -0.0104 | 0.0028 | -0.0168 | 0.0183 | 0.0000 |
| | | 167 | -2.8384 | -0.0071 | 0.0028 | -0.0051 | -0.0183 | 0.0000 |
| 166 | 6 | 166 | 1.5373 | -0.0005 | 0.0005 | 0.0007 | 0.0019 | -0.0013 |
| | | 170 | 1.5396 | 0.0018 | -0.0018 | -0.0021 | 0.0046 | -0.0013 |
| | 8 | 166 | 1.0968 | -0.0008 | -0.0012 | -0.0006 | -0.0043 | -0.0026 |
| | | 170 | 1.0991 | 0.0015 | -0.0035 | -0.0106 | -0.0029 | -0.0026 |
| 167 | 6 | 167 | 0.2111 | 0.0048 | -0.0035 | 0.0106 | -0.0065 | 0.0022 |
| | | 171 | 0.2134 | 0.0016 | -0.0035 | -0.0042 | 0.0068 | 0.0022 |
| | 8 | 167 | 3.3386 | -0.0029 | 0.0010 | 0.0030 | 0.0076 | -0.0026 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 171 | 3.3409 | -0.0062 | 0.0010 | 0.0072 | -0.0113 | -0.0026 |
| 168 | 6 | 168 | -1.4246 | -0.0040 | -0.0040 | 0.0058 | 0.0063 | -0.0003 |
| | | 169 | -1.4223 | -0.0017 | -0.0017 | -0.0062 | -0.0055 | -0.0003 |
| | 8 | 168 | 1.2164 | -0.0038 | 0.0002 | -0.0086 | 0.0116 | 0.0004 |
| | | 169 | 1.2187 | -0.0015 | 0.0025 | -0.0028 | 0.0004 | 0.0004 |
| 169 | 6 | 169 | 1.4077 | -0.0025 | 0.0004 | -0.0015 | 0.0067 | 0.0019 |
| | | 174 | 1.4100 | -0.0048 | -0.0019 | -0.0044 | -0.0085 | 0.0019 |
| | 8 | 169 | -1.1582 | 0.0054 | 0.0056 | -0.0040 | -0.0136 | -0.0032 |
| | | 174 | -1.1559 | 0.0031 | 0.0033 | 0.0147 | 0.0040 | -0.0032 |
| 170 | 6 | 170 | -1.8402 | 0.0072 | -0.0058 | 0.0105 | -0.0109 | 0.0017 |
| | | 172 | -1.8379 | 0.0049 | -0.0035 | -0.0090 | 0.0143 | 0.0017 |
| | 8 | 170 | -1.1322 | 0.0048 | -0.0028 | 0.0082 | -0.0058 | 0.0003 |
| | | 172 | -1.1299 | 0.0025 | -0.0005 | 0.0012 | 0.0093 | 0.0003 |
| 171 | 6 | 171 | -0.1588 | -0.0058 | 0.0003 | -0.0009 | 0.0067 | -0.0017 |
| | | 173 | -0.1565 | -0.0026 | 0.0003 | 0.0002 | -0.0109 | -0.0017 |
| | 8 | 171 | -3.5019 | -0.0135 | -0.0003 | -0.0077 | 0.0221 | -0.0018 |
| | | 173 | -3.4996 | -0.0102 | -0.0003 | -0.0089 | -0.0274 | -0.0018 |
| 172 | 6 | 172 | 0.5594 | 0.0087 | -0.0021 | 0.0049 | -0.0189 | -0.0023 |
| | | 173 | 0.5594 | 0.0119 | -0.0021 | -0.0023 | 0.0163 | -0.0023 |
| | 8 | 172 | 0.4851 | 0.0012 | -0.0014 | 0.0023 | -0.0048 | -0.0065 |
| | | 173 | 0.4851 | 0.0044 | -0.0014 | -0.0024 | 0.0047 | -0.0065 |
| 173 | 6 | 173 | -0.6783 | -0.0004 | 0.0014 | -0.0010 | 0.0071 | 0.0008 |
| | | 174 | -0.6783 | -0.0037 | 0.0014 | 0.0036 | 0.0001 | 0.0008 |
| | 8 | 173 | 0.9779 | -0.0179 | -0.0008 | 0.0012 | 0.0361 | -0.0086 |
| | | 174 | 0.9779 | -0.0211 | -0.0008 | -0.0015 | -0.0305 | -0.0086 |
| 174 | 6 | 174 | -0.4622 | -0.0131 | -0.0059 | 0.0101 | 0.0205 | 0.0008 |
| | | 172 | -0.4622 | -0.0099 | -0.0059 | -0.0100 | -0.0188 | 0.0008 |
| | 8 | 174 | -0.2363 | 0.0023 | 0.0007 | -0.0012 | -0.0103 | -0.0057 |
| | | 172 | -0.2363 | 0.0055 | 0.0007 | 0.0010 | 0.0030 | -0.0057 |
| 175 | 6 | 178 | -0.2782 | 0.0060 | -0.0019 | 0.0048 | -0.0130 | -0.0042 |
| | | 179 | -0.2783 | 0.0121 | -0.0019 | -0.0018 | 0.0179 | -0.0042 |
| | 8 | 178 | 0.5434 | -0.0002 | -0.0019 | 0.0030 | -0.0006 | -0.0050 |
| | | 179 | 0.5434 | 0.0059 | -0.0019 | -0.0035 | 0.0093 | -0.0050 |
| 176 | 6 | 179 | -4.6730 | -0.0005 | 0.0051 | -0.0073 | 0.0086 | -0.0003 |
| | | 180 | -4.6730 | -0.0067 | 0.0051 | 0.0103 | -0.0037 | -0.0003 |
| | 8 | 179 | -1.0316 | -0.0133 | -0.0037 | 0.0068 | 0.0288 | -0.0098 |
| | | 180 | -1.0316 | -0.0195 | -0.0037 | -0.0059 | -0.0273 | -0.0098 |
| 177 | 6 | 180 | -0.6013 | -0.0114 | -0.0118 | 0.0201 | 0.0185 | 0.0011 |
| | | 178 | -0.6013 | -0.0053 | -0.0118 | -0.0202 | -0.0101 | 0.0011 |
| | 8 | 180 | -4.2215 | 0.0013 | -0.0013 | 0.0028 | -0.0109 | -0.0039 |
| | | 178 | -4.2215 | 0.0074 | -0.0013 | -0.0015 | 0.0041 | -0.0039 |
| 178 | 6 | 178 | 2.4413 | -0.0025 | 0.0054 | -0.0028 | 0.0016 | 0.0023 |
| | | 182 | 2.4457 | 0.0018 | 0.0011 | 0.0107 | 0.0002 | 0.0023 |
| | 8 | 178 | 1.8722 | -0.0079 | 0.0074 | -0.0100 | 0.0124 | 0.0024 |
| | | 182 | 1.8765 | -0.0035 | 0.0030 | 0.0117 | -0.0115 | 0.0024 |
| 179 | 6 | 179 | 0.0531 | 0.0040 | -0.0120 | 0.0247 | -0.0045 | -0.0022 |
| | | 181 | 0.0574 | -0.0003 | -0.0077 | -0.0165 | 0.0033 | -0.0022 |
| | 8 | 179 | 1.9622 | 0.0080 | -0.0092 | 0.0194 | -0.0083 | -0.0065 |
| | | 181 | 1.9665 | 0.0036 | -0.0049 | -0.0099 | 0.0159 | -0.0065 |
| 180 | 6 | 179 | -1.2786 | -0.0048 | 0.0041 | -0.0034 | 0.0147 | -0.0055 |
| | | 183 | -1.2743 | -0.0110 | 0.0041 | 0.0139 | -0.0184 | -0.0055 |
| | 8 | 179 | 2.1545 | -0.0022 | -0.0071 | 0.0162 | 0.0141 | -0.0002 |
| | | 183 | 2.1588 | -0.0083 | -0.0071 | -0.0133 | -0.0079 | -0.0002 |
| 181 | 6 | 180 | -1.5917 | 0.0030 | 0.0000 | 0.0057 | -0.0088 | 0.0048 |
| | | 182 | -1.5873 | 0.0091 | 0.0000 | 0.0056 | 0.0163 | 0.0048 |
| | 8 | 180 | -1.4917 | -0.0080 | 0.0114 | -0.0253 | 0.0153 | -0.0012 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 182 | -1.4873 | -0.0019 | 0.0114 | 0.0222 | -0.0055 | -0.0012 |
| 182 | 6 | 180 | 0.1958 | -0.0020 | -0.0152 | 0.0312 | 0.0012 | 0.0009 |
| | | 181 | 0.2001 | 0.0023 | -0.0109 | -0.0232 | 0.0018 | 0.0009 |
| | 8 | 180 | -2.2685 | 0.0052 | 0.0011 | -0.0104 | -0.0112 | -0.0063 |
| | | 181 | -2.2642 | 0.0095 | 0.0054 | 0.0033 | 0.0195 | -0.0063 |
| 183 | 6 | 178 | 2.1769 | 0.0001 | 0.0097 | -0.0129 | 0.0036 | -0.0042 |
| | | 183 | 2.1812 | -0.0042 | 0.0053 | 0.0185 | -0.0051 | -0.0042 |
| | 8 | 178 | -0.3889 | -0.0014 | -0.0037 | 0.0087 | 0.0051 | 0.0027 |
| | | 183 | -0.3846 | -0.0057 | -0.0080 | -0.0158 | -0.0098 | 0.0027 |
| 184 | 6 | 181 | -0.6717 | -0.0043 | -0.0058 | 0.0167 | 0.0041 | -0.0009 |
| | | 185 | -0.6674 | 0.0001 | -0.0102 | -0.0167 | -0.0046 | -0.0009 |
| | 8 | 181 | -3.3276 | 0.0020 | -0.0017 | 0.0057 | -0.0107 | -0.0029 |
| | | 185 | -3.3232 | 0.0063 | -0.0060 | -0.0103 | 0.0065 | -0.0029 |
| 185 | 6 | 182 | -3.3558 | 0.0052 | 0.0031 | -0.0118 | -0.0083 | 0.0024 |
| | | 184 | -3.3515 | 0.0009 | 0.0075 | 0.0104 | 0.0045 | 0.0024 |
| | 8 | 182 | -2.6739 | -0.0062 | -0.0007 | -0.0044 | 0.0165 | 0.0024 |
| | | 184 | -2.6696 | -0.0106 | 0.0036 | 0.0015 | -0.0186 | 0.0024 |
| 186 | 6 | 182 | 1.9935 | 0.0102 | -0.0044 | 0.0075 | -0.0178 | 0.0029 |
| | | 186 | 1.9978 | 0.0041 | -0.0044 | -0.0108 | 0.0121 | 0.0029 |
| | 8 | 182 | 1.4115 | 0.0021 | 0.0060 | -0.0130 | 0.0008 | 0.0011 |
| | | 186 | 1.4158 | -0.0041 | 0.0060 | 0.0122 | -0.0033 | 0.0011 |
| 187 | 6 | 183 | 1.7940 | -0.0102 | -0.0077 | 0.0140 | 0.0172 | -0.0030 |
| | | 185 | 1.7983 | -0.0040 | -0.0077 | -0.0183 | -0.0124 | -0.0030 |
| | 8 | 183 | -2.5513 | -0.0054 | -0.0094 | 0.0212 | 0.0061 | 0.0013 |
| | | 185 | -2.5469 | 0.0008 | -0.0094 | -0.0181 | -0.0035 | 0.0013 |
| 188 | 6 | 183 | -3.1177 | -0.0029 | 0.0011 | -0.0077 | 0.0034 | -0.0023 |
| | | 184 | -3.1134 | 0.0015 | 0.0054 | 0.0059 | 0.0005 | -0.0023 |
| | 8 | 183 | 0.3822 | -0.0137 | -0.0028 | 0.0054 | 0.0252 | 0.0023 |
| | | 184 | 0.3865 | -0.0093 | 0.0015 | 0.0027 | -0.0228 | 0.0023 |
| 189 | 6 | 181 | -0.7293 | 0.0017 | -0.0030 | 0.0109 | 0.0011 | 0.0006 |
| | | 186 | -0.7250 | -0.0026 | -0.0073 | -0.0106 | -0.0007 | 0.0006 |
| | 8 | 181 | 2.9708 | 0.0038 | 0.0079 | -0.0105 | -0.0071 | -0.0026 |
| | | 186 | 2.9751 | -0.0005 | 0.0035 | 0.0133 | -0.0002 | -0.0026 |
| 190 | 6 | 186 | -2.5520 | -0.0040 | 0.0000 | -0.0091 | -0.0019 | -0.0089 |
| | | 188 | -2.5477 | 0.0022 | 0.0000 | -0.0091 | -0.0056 | -0.0089 |
| | 8 | 186 | -1.7234 | 0.0016 | -0.0047 | -0.0017 | -0.0012 | -0.0122 |
| | | 188 | -1.7190 | 0.0077 | -0.0047 | -0.0213 | 0.0183 | -0.0122 |
| 191 | 6 | 185 | 1.0900 | -0.0029 | 0.0107 | -0.0099 | 0.0035 | -0.0067 |
| | | 187 | 1.0944 | -0.0073 | 0.0150 | 0.0437 | -0.0178 | -0.0067 |
| | 8 | 185 | 4.2276 | -0.0101 | 0.0102 | -0.0178 | 0.0083 | 0.0068 |
| | | 187 | 4.2320 | -0.0145 | 0.0145 | 0.0338 | -0.0432 | 0.0068 |
| 192 | 6 | 185 | -2.3502 | 0.0037 | 0.0046 | -0.0171 | 0.0027 | 0.0091 |
| | | 189 | -2.3459 | -0.0024 | 0.0046 | 0.0023 | 0.0054 | 0.0091 |
| | 8 | 185 | 3.0829 | -0.0097 | 0.0057 | -0.0049 | 0.0198 | -0.0048 |
| | | 189 | 3.0872 | -0.0158 | 0.0057 | 0.0189 | -0.0335 | -0.0048 |
| 193 | 6 | 184 | 4.0907 | 0.0065 | -0.0128 | 0.0163 | -0.0143 | -0.0067 |
| | | 188 | 4.0950 | 0.0109 | -0.0171 | -0.0462 | 0.0221 | -0.0067 |
| | 8 | 184 | 3.5408 | 0.0127 | -0.0084 | 0.0067 | -0.0169 | 0.0001 |
| | | 188 | 3.5451 | 0.0171 | -0.0128 | -0.0377 | 0.0455 | 0.0001 |
| 194 | 6 | 186 | 1.1311 | 0.0055 | 0.0081 | -0.0053 | -0.0086 | 0.0069 |
| | | 187 | 1.1354 | 0.0099 | 0.0124 | 0.0376 | 0.0236 | 0.0069 |
| | 8 | 186 | -3.5172 | -0.0032 | -0.0052 | 0.0124 | -0.0081 | 0.0116 |
| | | 187 | -3.5129 | 0.0011 | -0.0008 | -0.0002 | -0.0124 | 0.0116 |
| 195 | 6 | 184 | 3.8486 | -0.0093 | -0.0094 | 0.0105 | 0.0193 | 0.0072 |
| | | 189 | 3.8529 | -0.0137 | -0.0137 | -0.0377 | -0.0289 | 0.0072 |
| | 8 | 184 | -0.7974 | 0.0022 | -0.0007 | 0.0120 | -0.0017 | -0.0036 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 189 | -0.7931 | -0.0021 | -0.0050 | 0.0002 | -0.0015 | -0.0036 |
| 196 | 6 | 187 | 4.1584 | -0.0177 | 0.0403 | -0.0781 | 0.0361 | 0.0033 |
| | | 191 | 4.1627 | -0.0134 | 0.0360 | 0.0813 | -0.0291 | 0.0033 |
| | 8 | 187 | 5.0810 | -0.0490 | 0.0219 | -0.0373 | 0.1123 | 0.0153 |
| | | 191 | 5.0854 | -0.0446 | 0.0175 | 0.0451 | -0.0834 | 0.0153 |
| 197 | 6 | 188 | -3.8222 | -0.0117 | -0.0150 | 0.0511 | 0.0287 | -0.0236 |
| | | 192 | -3.8179 | -0.0179 | -0.0150 | -0.0116 | -0.0332 | -0.0236 |
| | 8 | 188 | 0.8004 | 0.0195 | -0.0293 | 0.0673 | -0.0314 | -0.0078 |
| | | 192 | 0.8047 | 0.0134 | -0.0293 | -0.0551 | 0.0373 | -0.0078 |
| 198 | 6 | 188 | 4.3211 | 0.0128 | -0.0424 | 0.0952 | -0.0267 | -0.0074 |
| | | 190 | 4.3255 | 0.0085 | -0.0380 | -0.0729 | 0.0178 | -0.0074 |
| | 8 | 188 | 5.5356 | 0.0380 | -0.0359 | 0.0830 | -0.0717 | -0.0134 |
| | | 190 | 5.5399 | 0.0337 | -0.0316 | -0.0581 | 0.0783 | -0.0134 |
| 199 | 6 | 189 | -3.8623 | 0.0116 | -0.0191 | 0.0605 | -0.0286 | 0.0229 |
| | | 191 | -3.8580 | 0.0178 | -0.0191 | -0.0195 | 0.0330 | 0.0229 |
| | 8 | 189 | 1.4327 | -0.0188 | 0.0194 | -0.0350 | 0.0452 | 0.0030 |
| | | 191 | 1.4371 | -0.0127 | 0.0194 | 0.0460 | -0.0208 | 0.0030 |
| 200 | 6 | 189 | 4.3334 | -0.0091 | -0.0447 | 0.1007 | 0.0184 | 0.0062 |
| | | 190 | 4.3377 | -0.0048 | -0.0404 | -0.0774 | -0.0106 | 0.0062 |
| | 8 | 189 | -3.5892 | 0.0049 | 0.0076 | -0.0268 | 0.0010 | -0.0199 |
| | | 190 | -3.5849 | 0.0092 | 0.0119 | 0.0140 | 0.0304 | -0.0199 |
| 201 | 6 | 187 | 3.9162 | 0.0142 | 0.0430 | -0.0841 | -0.0284 | -0.0032 |
| | | 192 | 3.9205 | 0.0099 | 0.0387 | 0.0868 | 0.0220 | -0.0032 |
| | 8 | 187 | -3.1487 | -0.0263 | 0.0126 | -0.0330 | 0.0735 | 0.0216 |
| | | 192 | -3.1444 | -0.0306 | 0.0083 | 0.0108 | -0.0455 | 0.0216 |
| 202 | 6 | 190 | -2.8014 | 0.0013 | -0.0137 | 0.0365 | -0.0093 | 0.0009 |
| | | 194 | -2.7971 | 0.0056 | -0.0180 | -0.0299 | 0.0051 | 0.0009 |
| | 8 | 190 | -1.4987 | 0.0199 | -0.0067 | 0.0183 | -0.0541 | -0.0079 |
| | | 194 | -1.4944 | 0.0243 | -0.0110 | -0.0188 | 0.0383 | -0.0079 |
| 203 | 6 | 191 | 0.0891 | -0.0029 | 0.0186 | -0.0496 | 0.0100 | 0.0054 |
| | | 193 | 0.0934 | -0.0073 | 0.0230 | 0.0374 | -0.0113 | 0.0054 |
| | 8 | 191 | -2.2285 | -0.0130 | 0.0131 | -0.0399 | 0.0323 | 0.0050 |
| | | 193 | -2.2242 | -0.0173 | 0.0174 | 0.0240 | -0.0311 | 0.0050 |
| 204 | 6 | 191 | 0.9484 | 0.0118 | 0.0109 | -0.0327 | -0.0231 | 0.0108 |
| | | 195 | 0.9528 | 0.0057 | 0.0109 | 0.0128 | 0.0134 | 0.0108 |
| | 8 | 191 | -2.5404 | 0.0002 | 0.0143 | -0.0365 | 0.0053 | 0.0069 |
| | | 195 | -2.5361 | -0.0059 | 0.0143 | 0.0234 | -0.0066 | 0.0069 |
| 205 | 6 | 192 | 0.9373 | -0.0119 | 0.0086 | -0.0271 | 0.0233 | -0.0113 |
| | | 194 | 0.9416 | -0.0057 | 0.0086 | 0.0088 | -0.0135 | -0.0113 |
| | 8 | 192 | 1.6242 | 0.0072 | -0.0094 | 0.0221 | -0.0228 | 0.0017 |
| | | 194 | 1.6285 | 0.0133 | -0.0094 | -0.0170 | 0.0202 | 0.0017 |
| 206 | 6 | 192 | 0.2561 | 0.0041 | 0.0169 | -0.0455 | -0.0129 | -0.0058 |
| | | 193 | 0.2604 | 0.0084 | 0.0213 | 0.0345 | 0.0133 | -0.0058 |
| | 8 | 192 | 1.4683 | -0.0034 | -0.0097 | 0.0247 | -0.0006 | 0.0080 |
| | | 193 | 1.4726 | 0.0009 | -0.0054 | -0.0069 | -0.0058 | 0.0080 |
| 207 | 6 | 190 | -2.8874 | -0.0017 | -0.0124 | 0.0336 | 0.0103 | -0.0016 |
| | | 195 | -2.8831 | -0.0061 | -0.0168 | -0.0275 | -0.0060 | -0.0016 |
| | 8 | 190 | 0.1415 | 0.0184 | -0.0011 | 0.0098 | -0.0437 | -0.0117 |
| | | 195 | 0.1458 | 0.0141 | -0.0055 | -0.0040 | 0.0243 | -0.0117 |
| 208 | 6 | 193 | -0.6905 | -0.0067 | 0.0104 | -0.0192 | 0.0112 | 0.0000 |
| | | 197 | -0.6861 | -0.0023 | 0.0061 | 0.0153 | -0.0075 | 0.0000 |
| | 8 | 193 | 0.5517 | -0.0107 | 0.0066 | -0.0103 | 0.0243 | 0.0039 |
| | | 197 | 0.5561 | -0.0064 | 0.0022 | 0.0081 | -0.0115 | 0.0039 |
| 209 | 6 | 194 | 1.2448 | 0.0048 | -0.0084 | 0.0185 | -0.0080 | -0.0027 |
| | | 196 | 1.2491 | 0.0004 | -0.0041 | -0.0077 | 0.0028 | -0.0027 |
| | 8 | 194 | 0.1873 | 0.0097 | -0.0086 | 0.0174 | -0.0183 | -0.0021 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 196 | 0.1916 | 0.0054 | -0.0043 | -0.0096 | 0.0133 | -0.0021 |
| 210 | 6 | 194 | 0.0337 | 0.0012 | -0.0028 | 0.0096 | 0.0030 | -0.0049 |
| | | 198 | 0.0381 | -0.0049 | -0.0028 | -0.0021 | -0.0048 | -0.0049 |
| | 8 | 194 | -1.2165 | 0.0085 | -0.0047 | 0.0111 | -0.0125 | -0.0023 |
| | | 198 | -1.2122 | 0.0023 | -0.0047 | -0.0086 | 0.0100 | -0.0023 |
| 211 | 6 | 195 | 0.0432 | -0.0011 | -0.0031 | 0.0101 | -0.0031 | 0.0047 |
| | | 197 | 0.0475 | 0.0050 | -0.0031 | -0.0029 | 0.0050 | 0.0047 |
| | 8 | 195 | 1.6024 | -0.0047 | 0.0026 | -0.0050 | 0.0080 | -0.0002 |
| | | 197 | 1.6067 | 0.0015 | 0.0026 | 0.0058 | 0.0012 | -0.0002 |
| 212 | 6 | 195 | 1.3032 | -0.0040 | -0.0086 | 0.0187 | 0.0067 | 0.0025 |
| | | 196 | 1.3075 | 0.0003 | -0.0043 | -0.0082 | -0.0012 | 0.0025 |
| | 8 | 195 | 0.3667 | -0.0012 | -0.0002 | -0.0038 | 0.0008 | -0.0030 |
| | | 196 | 0.3710 | 0.0032 | 0.0041 | 0.0043 | 0.0050 | -0.0030 |
| 213 | 6 | 193 | -0.8418 | 0.0062 | 0.0109 | -0.0202 | -0.0101 | -0.0001 |
| | | 198 | -0.8375 | 0.0018 | 0.0066 | 0.0164 | 0.0067 | -0.0001 |
| | 8 | 193 | -0.4259 | -0.0019 | 0.0048 | -0.0087 | 0.0119 | 0.0049 |
| | | 198 | -0.4216 | -0.0063 | 0.0004 | 0.0021 | -0.0052 | 0.0049 |
| 214 | 6 | 196 | -1.0028 | -0.0033 | 0.0022 | -0.0011 | 0.0037 | 0.0002 |
| | | 200 | -0.9985 | 0.0010 | -0.0021 | -0.0009 | -0.0012 | 0.0002 |
| | 8 | 196 | 0.2735 | -0.0027 | 0.0019 | -0.0002 | 0.0015 | -0.0009 |
| | | 200 | 0.2778 | 0.0016 | -0.0024 | -0.0014 | -0.0009 | -0.0009 |
| 215 | 6 | 197 | 0.8951 | 0.0021 | -0.0026 | 0.0010 | -0.0009 | 0.0006 |
| | | 199 | 0.8994 | -0.0022 | 0.0018 | -0.0006 | -0.0011 | 0.0006 |
| | 8 | 197 | -0.1490 | 0.0020 | -0.0022 | 0.0004 | -0.0012 | 0.0005 |
| | | 199 | -0.1447 | -0.0024 | 0.0021 | 0.0002 | -0.0021 | 0.0005 |
| 216 | 6 | 197 | -0.1227 | 0.0036 | 0.0007 | -0.0026 | -0.0038 | 0.0012 |
| | | 201 | -0.1183 | -0.0026 | 0.0007 | 0.0004 | -0.0017 | 0.0012 |
| | 8 | 197 | -1.4322 | 0.0040 | 0.0009 | -0.0034 | -0.0044 | 0.0009 |
| | | 201 | -1.4278 | -0.0022 | 0.0009 | 0.0005 | -0.0007 | 0.0009 |
| 217 | 6 | 198 | -0.1184 | -0.0037 | 0.0006 | -0.0023 | 0.0039 | -0.0010 |
| | | 200 | -0.1141 | 0.0024 | 0.0006 | 0.0003 | 0.0010 | -0.0010 |
| | 8 | 198 | 1.2501 | -0.0028 | 0.0001 | 0.0007 | 0.0003 | 0.0004 |
| | | 200 | 1.2544 | 0.0033 | 0.0001 | 0.0012 | 0.0013 | 0.0004 |
| 218 | 6 | 198 | 1.0351 | -0.0018 | -0.0025 | 0.0008 | 0.0004 | -0.0007 |
| | | 199 | 1.0394 | 0.0025 | 0.0018 | -0.0008 | 0.0020 | -0.0007 |
| | 8 | 198 | 0.3319 | -0.0020 | -0.0032 | 0.0047 | 0.0005 | 0.0010 |
| | | 199 | 0.3362 | 0.0023 | 0.0012 | 0.0006 | 0.0010 | 0.0010 |
| 219 | 6 | 196 | -1.0394 | 0.0028 | 0.0023 | -0.0014 | -0.0030 | -0.0003 |
| | | 201 | -1.0351 | -0.0016 | -0.0021 | -0.0010 | -0.0005 | -0.0003 |
| | 8 | 196 | -0.5552 | 0.0028 | 0.0024 | -0.0021 | -0.0037 | -0.0011 |
| | | 201 | -0.5508 | -0.0015 | -0.0020 | -0.0012 | -0.0010 | -0.0011 |
| 220 | 6 | 199 | -1.1970 | -0.0056 | 0.0069 | -0.0074 | 0.0063 | 0.0016 |
| | | 203 | -1.1926 | -0.0013 | 0.0026 | 0.0124 | -0.0083 | 0.0016 |
| | 8 | 199 | 0.1480 | 0.0005 | 0.0045 | -0.0047 | 0.0004 | 0.0044 |
| | | 203 | 0.1523 | 0.0049 | 0.0002 | 0.0053 | 0.0118 | 0.0044 |
| 221 | 6 | 200 | 0.9275 | 0.0002 | 0.0020 | -0.0022 | -0.0001 | -0.0016 |
| | | 202 | 0.9318 | -0.0042 | 0.0064 | 0.0153 | -0.0086 | -0.0016 |
| | 8 | 200 | -0.3767 | 0.0053 | -0.0042 | 0.0056 | -0.0053 | -0.0028 |
| | | 202 | -0.3724 | 0.0010 | 0.0001 | -0.0030 | 0.0078 | -0.0028 |
| 222 | 6 | 200 | 0.0795 | 0.0055 | 0.0031 | -0.0023 | -0.0065 | -0.0046 |
| | | 204 | 0.0838 | -0.0007 | 0.0031 | 0.0108 | 0.0036 | -0.0046 |
| | 8 | 200 | -1.5103 | 0.0100 | 0.0000 | 0.0004 | -0.0108 | -0.0009 |
| | | 204 | -1.5060 | 0.0039 | 0.0000 | 0.0003 | 0.0184 | -0.0009 |
| 223 | 6 | 201 | 0.0777 | -0.0047 | 0.0004 | 0.0022 | 0.0057 | 0.0036 |
| | | 203 | 0.0821 | 0.0014 | 0.0004 | 0.0037 | -0.0013 | 0.0036 |
| | 8 | 201 | 1.4460 | 0.0037 | 0.0005 | 0.0007 | -0.0050 | 0.0014 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 203 | 1.4504 | 0.0098 | 0.0005 | 0.0028 | 0.0233 | 0.0014 |
| 224 | 6 | 201 | 1.0702 | -0.0010 | 0.0011 | -0.0001 | 0.0017 | 0.0022 |
| | | 202 | 1.0745 | 0.0033 | 0.0054 | 0.0136 | 0.0065 | 0.0022 |
| | 8 | 201 | 0.5883 | -0.0010 | -0.0024 | 0.0028 | 0.0022 | -0.0026 |
| | | 202 | 0.5927 | 0.0033 | 0.0020 | 0.0020 | 0.0069 | -0.0026 |
| 225 | 6 | 199 | -1.3299 | 0.0076 | 0.0097 | -0.0112 | -0.0094 | -0.0019 |
| | | 204 | -1.3256 | 0.0032 | 0.0054 | 0.0202 | 0.0132 | -0.0019 |
| | 8 | 199 | -0.5217 | 0.0069 | 0.0052 | -0.0073 | -0.0064 | 0.0028 |
| | | 204 | -0.5174 | 0.0025 | 0.0009 | 0.0054 | 0.0132 | 0.0028 |
| 226 | 6 | 202 | 0.0961 | -0.0216 | -0.0011 | 0.0017 | 0.0347 | -0.0004 |
| | | 203 | 0.0961 | -0.0155 | -0.0011 | -0.0021 | -0.0286 | -0.0004 |
| | 8 | 202 | -0.1881 | 0.0043 | 0.0004 | -0.0008 | -0.0112 | 0.0031 |
| | | 203 | -0.1881 | 0.0105 | 0.0004 | 0.0004 | 0.0141 | 0.0031 |
| 227 | 6 | 203 | 0.3179 | 0.0045 | 0.0006 | -0.0011 | -0.0029 | -0.0021 |
| | | 204 | 0.3179 | -0.0016 | 0.0006 | 0.0010 | 0.0021 | -0.0021 |
| | 8 | 203 | 0.2735 | 0.0278 | 0.0002 | -0.0003 | -0.0455 | 0.0008 |
| | | 204 | 0.2735 | 0.0217 | 0.0002 | 0.0004 | 0.0392 | 0.0008 |
| 228 | 6 | 204 | -0.1834 | 0.0193 | -0.0004 | 0.0007 | -0.0385 | 0.0005 |
| | | 202 | -0.1834 | 0.0255 | -0.0004 | -0.0005 | 0.0381 | 0.0005 |
| | 8 | 204 | 0.1510 | 0.0084 | 0.0008 | -0.0011 | -0.0198 | 0.0008 |
| | | 202 | 0.1510 | 0.0145 | 0.0008 | 0.0015 | 0.0194 | 0.0008 |
| 229 | 6 | 208 | 0.6861 | -0.0162 | -0.0005 | 0.0008 | 0.0273 | -0.0003 |
| | | 209 | 0.6861 | -0.0129 | -0.0005 | -0.0010 | -0.0224 | -0.0003 |
| | 8 | 208 | 0.0480 | 0.0044 | -0.0016 | 0.0027 | -0.0090 | 0.0026 |
| | | 209 | 0.0480 | 0.0076 | -0.0016 | -0.0028 | 0.0116 | 0.0026 |
| 230 | 6 | 209 | -0.1878 | 0.0028 | -0.0009 | 0.0015 | -0.0026 | -0.0019 |
| | | 210 | -0.1878 | -0.0005 | -0.0009 | -0.0015 | 0.0014 | -0.0019 |
| | 8 | 209 | 0.7730 | 0.0218 | -0.0001 | 0.0002 | -0.0371 | 0.0006 |
| | | 210 | 0.7730 | 0.0185 | -0.0001 | 0.0000 | 0.0318 | 0.0006 |
| 231 | 6 | 210 | -0.5885 | 0.0167 | -0.0011 | 0.0020 | -0.0316 | 0.0002 |
| | | 208 | -0.5885 | 0.0200 | -0.0011 | -0.0017 | 0.0311 | 0.0002 |
| | 8 | 210 | -0.5201 | 0.0078 | 0.0003 | -0.0004 | -0.0163 | 0.0006 |
| | | 208 | -0.5201 | 0.0111 | 0.0003 | 0.0007 | 0.0159 | 0.0006 |
| 232 | 6 | 208 | -1.7488 | -0.0063 | 0.0061 | -0.0134 | 0.0128 | -0.0007 |
| | | 212 | -1.7465 | -0.0040 | 0.0038 | 0.0071 | -0.0089 | -0.0007 |
| | 8 | 208 | 0.4811 | -0.0025 | -0.0010 | 0.0044 | 0.0023 | -0.0009 |
| | | 212 | 0.4834 | -0.0001 | -0.0033 | -0.0045 | -0.0031 | -0.0009 |
| 233 | 6 | 209 | -0.0398 | 0.0014 | -0.0016 | 0.0028 | -0.0016 | 0.0012 |
| | | 213 | -0.0375 | -0.0019 | -0.0016 | -0.0037 | -0.0027 | 0.0012 |
| | 8 | 209 | -2.2681 | 0.0101 | 0.0001 | -0.0012 | -0.0228 | 0.0008 |
| | | 213 | -2.2658 | 0.0068 | 0.0001 | -0.0009 | 0.0126 | 0.0008 |
| 234 | 6 | 210 | 1.8399 | 0.0038 | 0.0028 | -0.0105 | -0.0111 | -0.0012 |
| | | 211 | 1.8422 | 0.0061 | 0.0051 | 0.0059 | 0.0097 | -0.0012 |
| | 8 | 210 | 0.9393 | 0.0018 | 0.0014 | -0.0044 | -0.0074 | 0.0012 |
| | | 211 | 0.9416 | 0.0041 | 0.0037 | 0.0061 | 0.0048 | 0.0012 |
| 235 | 6 | 211 | -1.7799 | 0.0036 | 0.0027 | -0.0039 | -0.0066 | 0.0002 |
| | | 216 | -1.7776 | 0.0013 | 0.0004 | 0.0026 | 0.0035 | 0.0002 |
| | 8 | 211 | -0.9203 | 0.0025 | 0.0020 | -0.0037 | -0.0040 | 0.0002 |
| | | 216 | -0.9180 | 0.0002 | -0.0003 | -0.0002 | 0.0016 | 0.0002 |
| 236 | 6 | 212 | 1.4677 | 0.0009 | -0.0003 | -0.0012 | 0.0005 | -0.0001 |
| | | 214 | 1.4700 | -0.0014 | 0.0020 | 0.0025 | -0.0006 | -0.0001 |
| | 8 | 212 | -0.4480 | 0.0031 | 0.0000 | -0.0019 | -0.0050 | 0.0003 |
| | | 214 | -0.4457 | 0.0008 | 0.0023 | 0.0030 | 0.0031 | 0.0003 |
| 237 | 6 | 213 | 0.0643 | -0.0034 | 0.0017 | -0.0034 | 0.0058 | -0.0003 |
| | | 215 | 0.0666 | -0.0001 | 0.0017 | 0.0037 | -0.0014 | -0.0003 |
| | 8 | 213 | 2.0131 | -0.0008 | -0.0009 | 0.0024 | -0.0012 | 0.0000 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 215 | 2.0154 | 0.0024 | -0.0009 | -0.0014 | 0.0021 | 0.0000 |
| 238 | 6 | 214 | -1.4145 | -0.0037 | 0.0036 | -0.0049 | 0.0052 | -0.0002 |
| | | 218 | -1.4122 | -0.0014 | 0.0013 | 0.0051 | -0.0053 | -0.0002 |
| | 8 | 214 | 0.4105 | -0.0017 | 0.0000 | 0.0014 | 0.0025 | -0.0001 |
| | | 218 | 0.4128 | 0.0006 | -0.0023 | -0.0032 | 0.0001 | -0.0001 |
| 239 | 6 | 215 | 0.1104 | 0.0028 | -0.0002 | 0.0013 | -0.0041 | 0.0003 |
| | | 219 | 0.1127 | -0.0004 | -0.0002 | 0.0003 | 0.0009 | 0.0003 |
| | 8 | 215 | -1.7014 | 0.0066 | 0.0019 | -0.0046 | -0.0094 | 0.0004 |
| | | 219 | -1.6991 | 0.0033 | 0.0019 | 0.0035 | 0.0113 | 0.0004 |
| 240 | 6 | 216 | 1.4254 | -0.0009 | 0.0004 | -0.0021 | 0.0002 | 0.0000 |
| | | 217 | 1.4277 | 0.0014 | 0.0027 | 0.0044 | 0.0013 | 0.0000 |
| | 8 | 216 | 0.9318 | -0.0011 | -0.0024 | 0.0041 | 0.0008 | 0.0006 |
| | | 217 | 0.9341 | 0.0012 | -0.0001 | -0.0010 | 0.0012 | 0.0006 |
| 241 | 6 | 217 | -1.4422 | 0.0042 | 0.0025 | -0.0035 | -0.0081 | 0.0004 |
| | | 222 | -1.4399 | 0.0019 | 0.0002 | 0.0023 | 0.0047 | 0.0004 |
| | 8 | 217 | -0.9131 | -0.0012 | 0.0068 | -0.0125 | 0.0039 | -0.0007 |
| | | 222 | -0.9109 | -0.0035 | 0.0045 | 0.0111 | -0.0058 | -0.0007 |
| 242 | 6 | 218 | 0.9810 | -0.0001 | 0.0013 | -0.0053 | 0.0027 | 0.0007 |
| | | 220 | 0.9832 | -0.0024 | 0.0036 | 0.0050 | -0.0024 | 0.0007 |
| | 8 | 218 | -0.4220 | 0.0038 | -0.0009 | 0.0008 | -0.0065 | 0.0006 |
| | | 220 | -0.4197 | 0.0015 | 0.0014 | 0.0019 | 0.0046 | 0.0006 |
| 243 | 6 | 219 | 0.1346 | -0.0031 | -0.0016 | 0.0036 | 0.0044 | -0.0010 |
| | | 221 | 0.1369 | 0.0001 | -0.0016 | -0.0033 | -0.0019 | -0.0010 |
| | 8 | 219 | 1.2084 | 0.0023 | -0.0031 | 0.0069 | -0.0098 | 0.0006 |
| | | 221 | 1.2107 | 0.0056 | -0.0031 | -0.0062 | 0.0067 | 0.0006 |
| 244 | 6 | 220 | -0.9963 | -0.0023 | 0.0011 | -0.0019 | 0.0040 | -0.0008 |
| | | 224 | -0.9940 | 0.0000 | -0.0012 | -0.0022 | -0.0007 | -0.0008 |
| | 8 | 220 | 0.4026 | -0.0027 | -0.0003 | 0.0021 | 0.0031 | -0.0010 |
| | | 224 | 0.4049 | -0.0003 | -0.0026 | -0.0040 | -0.0032 | -0.0010 |
| 245 | 6 | 221 | 0.0893 | 0.0034 | 0.0017 | -0.0027 | -0.0044 | 0.0011 |
| | | 225 | 0.0916 | 0.0001 | 0.0017 | 0.0045 | 0.0028 | 0.0011 |
| | 8 | 221 | -0.5344 | 0.0009 | 0.0030 | -0.0051 | -0.0024 | -0.0008 |
| | | 225 | -0.5321 | -0.0024 | 0.0030 | 0.0075 | -0.0054 | -0.0008 |
| 246 | 6 | 222 | 0.9103 | -0.0011 | 0.0005 | -0.0031 | 0.0001 | -0.0006 |
| | | 223 | 0.9126 | 0.0012 | 0.0028 | 0.0038 | 0.0003 | -0.0006 |
| | 8 | 222 | 0.8355 | 0.0033 | -0.0048 | 0.0074 | -0.0079 | 0.0005 |
| | | 223 | 0.8378 | 0.0056 | -0.0025 | -0.0079 | 0.0108 | 0.0005 |
| 247 | 6 | 223 | -0.9015 | 0.0019 | 0.0025 | -0.0035 | -0.0037 | 0.0007 |
| | | 228 | -0.8992 | -0.0004 | 0.0002 | 0.0020 | -0.0006 | 0.0007 |
| | 8 | 223 | -0.8264 | 0.0023 | 0.0040 | -0.0061 | -0.0039 | -0.0010 |
| | | 228 | -0.8241 | 0.0000 | 0.0017 | 0.0058 | 0.0009 | -0.0010 |
| 248 | 6 | 224 | 0.5506 | 0.0018 | -0.0016 | 0.0025 | -0.0020 | 0.0001 |
| | | 226 | 0.5529 | -0.0005 | 0.0007 | 0.0008 | 0.0009 | 0.0001 |
| | 8 | 224 | -0.3851 | 0.0032 | 0.0001 | -0.0005 | -0.0038 | 0.0005 |
| | | 226 | -0.3828 | 0.0009 | 0.0024 | 0.0047 | 0.0047 | 0.0005 |
| 249 | 6 | 225 | 0.1243 | -0.0025 | 0.0003 | 0.0001 | 0.0025 | -0.0008 |
| | | 227 | 0.1266 | 0.0007 | 0.0003 | 0.0015 | -0.0012 | -0.0008 |
| | 8 | 225 | 0.0075 | -0.0044 | -0.0015 | 0.0014 | 0.0080 | -0.0010 |
| | | 227 | 0.0098 | -0.0011 | -0.0015 | -0.0048 | -0.0036 | -0.0010 |
| 250 | 6 | 226 | -0.5541 | -0.0023 | 0.0017 | -0.0024 | 0.0038 | -0.0004 |
| | | 230 | -0.5518 | 0.0000 | -0.0006 | 0.0000 | -0.0010 | -0.0004 |
| | 8 | 226 | 0.3743 | -0.0022 | -0.0005 | 0.0021 | 0.0024 | -0.0015 |
| | | 230 | 0.3766 | 0.0001 | -0.0028 | -0.0047 | -0.0020 | -0.0015 |
| 251 | 6 | 227 | 0.0687 | 0.0036 | 0.0016 | -0.0021 | -0.0047 | 0.0017 |
| | | 231 | 0.0710 | 0.0003 | 0.0016 | 0.0047 | 0.0033 | 0.0017 |
| | 8 | 227 | 0.2314 | 0.0022 | 0.0014 | -0.0014 | -0.0033 | -0.0001 |

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|---|---|---|---|---|---|---|---|
| | | 231 | 0.2337 | -0.0010 | 0.0014 | 0.0044 | -0.0007 | -0.0001 |
| 252 | 6 | 228 | 0.6271 | -0.0010 | -0.0017 | 0.0021 | -0.0001 | -0.0007 |
| | | 229 | 0.6294 | 0.0013 | 0.0006 | -0.0002 | 0.0003 | -0.0007 |
| | 8 | 228 | 0.9020 | 0.0008 | -0.0024 | 0.0013 | -0.0021 | 0.0007 |
| | | 229 | 0.9043 | 0.0031 | -0.0001 | -0.0038 | 0.0059 | 0.0007 |
| 253 | 6 | 229 | -0.6482 | 0.0006 | 0.0048 | -0.0073 | -0.0006 | 0.0019 |
| | | 234 | -0.6459 | -0.0017 | 0.0025 | 0.0080 | -0.0027 | 0.0019 |
| | 8 | 229 | -0.8741 | 0.0024 | 0.0060 | -0.0093 | -0.0033 | -0.0016 |
| | | 234 | -0.8718 | 0.0001 | 0.0037 | 0.0110 | 0.0019 | -0.0016 |
| 254 | 6 | 230 | 0.3624 | 0.0023 | -0.0001 | -0.0014 | -0.0027 | 0.0009 |
| | | 232 | 0.3647 | -0.0001 | 0.0022 | 0.0029 | 0.0019 | 0.0009 |
| | 8 | 230 | -0.3665 | 0.0043 | -0.0001 | 0.0006 | -0.0054 | 0.0015 |
| | | 232 | -0.3642 | 0.0020 | 0.0022 | 0.0052 | 0.0080 | 0.0015 |
| 255 | 6 | 231 | 0.0242 | -0.0045 | -0.0022 | 0.0059 | 0.0051 | -0.0013 |
| | | 233 | 0.0265 | -0.0012 | -0.0022 | -0.0032 | -0.0069 | -0.0013 |
| | 8 | 231 | -0.3690 | -0.0041 | -0.0012 | 0.0013 | 0.0049 | -0.0007 |
| | | 233 | -0.3667 | -0.0008 | -0.0012 | -0.0038 | -0.0053 | -0.0007 |
| 256 | 6 | 232 | -0.3561 | -0.0047 | -0.0013 | 0.0031 | 0.0053 | -0.0013 |
| | | 233 | -0.3561 | -0.0014 | -0.0013 | -0.0014 | -0.0052 | -0.0013 |
| | 8 | 232 | -0.0419 | -0.0001 | -0.0047 | 0.0111 | -0.0024 | -0.0015 |
| | | 233 | -0.0419 | 0.0032 | -0.0047 | -0.0048 | 0.0029 | -0.0015 |
| 257 | 6 | 233 | -0.1671 | 0.0009 | 0.0065 | -0.0076 | 0.0036 | -0.0002 |
| | | 234 | -0.1671 | -0.0024 | 0.0065 | 0.0148 | 0.0011 | -0.0002 |
| | 8 | 233 | 0.1350 | -0.0005 | 0.0003 | 0.0001 | 0.0042 | -0.0031 |
| | | 234 | 0.1350 | -0.0037 | 0.0003 | 0.0013 | -0.0030 | -0.0031 |
| 258 | 6 | 234 | -0.0505 | 0.0014 | -0.0075 | 0.0155 | -0.0052 | 0.0009 |
| | | 232 | -0.0505 | 0.0046 | -0.0075 | -0.0100 | 0.0051 | 0.0009 |
| | 8 | 234 | -0.0187 | 0.0029 | -0.0056 | 0.0072 | -0.0096 | -0.0018 |
| | | 232 | -0.0187 | 0.0061 | -0.0056 | -0.0120 | 0.0058 | -0.0018 |
| 259 | 6 | 238 | -1.0807 | -0.0060 | -0.0012 | 0.0035 | 0.0077 | -0.0027 |
| | | 239 | -1.0807 | 0.0002 | -0.0012 | -0.0006 | -0.0023 | -0.0027 |
| | 8 | 238 | -0.3279 | -0.0010 | -0.0095 | 0.0221 | -0.0005 | -0.0010 |
| | | 239 | -0.3279 | 0.0051 | -0.0095 | -0.0105 | 0.0066 | -0.0010 |
| 260 | 6 | 239 | -2.9524 | 0.0010 | 0.0122 | -0.0144 | 0.0053 | -0.0012 |
| | | 240 | -2.9524 | -0.0052 | 0.0122 | 0.0274 | -0.0019 | -0.0012 |
| | 8 | 239 | -0.7376 | 0.0023 | -0.0014 | 0.0038 | 0.0000 | -0.0041 |
| | | 240 | -0.7376 | -0.0038 | -0.0014 | -0.0011 | -0.0025 | -0.0041 |
| 261 | 6 | 240 | -0.7847 | 0.0013 | -0.0161 | 0.0326 | -0.0055 | 0.0011 |
| | | 238 | -0.7847 | 0.0075 | -0.0161 | -0.0224 | 0.0096 | 0.0011 |
| | 8 | 240 | -2.3909 | 0.0021 | -0.0109 | 0.0141 | -0.0101 | -0.0013 |
| | | 238 | -2.3909 | 0.0082 | -0.0109 | -0.0230 | 0.0076 | -0.0013 |
| 262 | 6 | 238 | 1.5078 | -0.0028 | 0.0053 | -0.0072 | 0.0044 | -0.0001 |
| | | 242 | 1.5122 | 0.0016 | 0.0009 | 0.0057 | 0.0019 | -0.0001 |
| | 8 | 238 | 0.7973 | -0.0077 | 0.0002 | 0.0061 | 0.0147 | -0.0025 |
| | | 242 | 0.8017 | -0.0034 | -0.0041 | -0.0021 | -0.0085 | -0.0025 |
| 263 | 6 | 239 | -0.0365 | 0.0014 | -0.0065 | 0.0095 | 0.0022 | -0.0005 |
| | | 241 | -0.0321 | -0.0029 | -0.0022 | -0.0086 | -0.0009 | -0.0005 |
| | 8 | 239 | 0.7150 | 0.0202 | 0.0111 | -0.0143 | -0.0269 | 0.0078 |
| | | 241 | 0.7193 | 0.0159 | 0.0155 | 0.0414 | 0.0487 | 0.0078 |
| 264 | 6 | 239 | -0.3077 | -0.0023 | 0.0252 | -0.0353 | 0.0095 | 0.0077 |
| | | 243 | -0.3034 | -0.0085 | 0.0252 | 0.0701 | -0.0130 | 0.0077 |
| | 8 | 239 | 0.9657 | 0.0028 | -0.0033 | 0.0069 | -0.0016 | 0.0005 |
| | | 243 | 0.9700 | -0.0033 | -0.0033 | -0.0067 | -0.0025 | 0.0005 |
| 265 | 6 | 240 | -0.8222 | 0.0011 | -0.0028 | 0.0109 | -0.0063 | -0.0021 |
| | | 242 | -0.8178 | 0.0073 | -0.0028 | -0.0009 | 0.0112 | -0.0021 |
| | 8 | 240 | -0.2728 | -0.0044 | 0.0050 | -0.0108 | 0.0037 | -0.0017 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 242 | -0.2684 | 0.0018 | 0.0050 | 0.0103 | -0.0017 | -0.0017 |
| 266 | 6 | 240 | 0.2533 | 0.0034 | -0.0102 | 0.0190 | -0.0147 | -0.0028 |
| | | 241 | 0.2576 | 0.0077 | -0.0059 | -0.0147 | 0.0085 | -0.0028 |
| | 8 | 240 | -0.6720 | 0.0182 | -0.0160 | 0.0169 | -0.0307 | 0.0067 |
| | | 241 | -0.6677 | 0.0225 | -0.0117 | -0.0411 | 0.0544 | 0.0067 |
| 267 | 6 | 238 | 1.1594 | -0.0147 | 0.0231 | -0.0344 | 0.0220 | 0.0076 |
| | | 243 | 1.1638 | -0.0191 | 0.0188 | 0.0531 | -0.0487 | 0.0076 |
| | 8 | 238 | -0.1716 | -0.0023 | 0.0028 | -0.0070 | 0.0093 | -0.0015 |
| | | 243 | -0.1672 | -0.0066 | -0.0015 | -0.0042 | -0.0093 | -0.0015 |
| 268 | 6 | 241 | -0.2051 | -0.0009 | -0.0028 | 0.0105 | -0.0026 | -0.0010 |
| | | 245 | -0.2008 | 0.0035 | -0.0071 | -0.0103 | 0.0028 | -0.0010 |
| | 8 | 241 | -1.6114 | -0.0142 | -0.0146 | 0.0449 | 0.0365 | -0.0103 |
| | | 245 | -1.6071 | -0.0098 | -0.0190 | -0.0253 | -0.0137 | -0.0103 |
| 269 | 6 | 242 | -2.4597 | 0.0025 | 0.0008 | -0.0054 | -0.0025 | 0.0013 |
| | | 244 | -2.4554 | -0.0018 | 0.0052 | 0.0071 | -0.0010 | 0.0013 |
| | 8 | 242 | -1.1064 | 0.0041 | 0.0055 | -0.0106 | -0.0001 | 0.0051 |
| | | 244 | -1.1021 | -0.0002 | 0.0098 | 0.0215 | 0.0081 | 0.0051 |
| 270 | 6 | 242 | 1.1852 | 0.0069 | 0.0063 | -0.0062 | -0.0102 | 0.0056 |
| | | 246 | 1.1895 | 0.0007 | 0.0063 | 0.0200 | 0.0057 | 0.0056 |
| | 8 | 242 | 0.4107 | 0.0015 | 0.0008 | -0.0018 | 0.0022 | 0.0002 |
| | | 246 | 0.4150 | -0.0047 | 0.0008 | 0.0016 | -0.0044 | 0.0002 |
| 271 | 6 | 243 | 0.8946 | -0.0072 | -0.0256 | 0.0689 | 0.0106 | -0.0108 |
| | | 245 | 0.8989 | -0.0011 | -0.0256 | -0.0382 | -0.0068 | -0.0108 |
| | 8 | 243 | -1.4426 | -0.0032 | -0.0029 | 0.0069 | 0.0019 | 0.0005 |
| | | 245 | -1.4383 | 0.0029 | -0.0029 | -0.0051 | 0.0015 | 0.0005 |
| 272 | 6 | 243 | -2.3989 | 0.0128 | -0.0145 | 0.0376 | -0.0407 | -0.0103 |
| | | 244 | -2.3946 | 0.0171 | -0.0102 | -0.0138 | 0.0218 | -0.0103 |
| | 8 | 243 | 0.0600 | -0.0007 | -0.0090 | 0.0117 | 0.0028 | 0.0052 |
| | | 244 | 0.0643 | 0.0037 | -0.0047 | -0.0168 | 0.0091 | 0.0052 |
| 273 | 6 | 241 | -0.4416 | -0.0056 | 0.0044 | 0.0006 | 0.0109 | 0.0042 |
| | | 246 | -0.4373 | -0.0099 | 0.0000 | 0.0098 | -0.0215 | 0.0042 |
| | 8 | 241 | 1.2367 | -0.0123 | 0.0196 | -0.0483 | 0.0396 | -0.0104 |
| | | 246 | 1.2410 | -0.0166 | 0.0153 | 0.0246 | -0.0209 | -0.0104 |
| 274 | 6 | 244 | 2.7038 | 0.0069 | -0.0073 | 0.0092 | -0.0139 | -0.0035 |
| | | 248 | 2.7081 | 0.0112 | -0.0116 | -0.0304 | 0.0239 | -0.0035 |
| | 8 | 244 | 1.6086 | -0.0021 | -0.0107 | 0.0244 | 0.0125 | -0.0027 |
| | | 248 | 1.6129 | 0.0023 | -0.0150 | -0.0294 | 0.0130 | -0.0027 |
| 275 | 6 | 245 | 0.6719 | -0.0035 | 0.0053 | -0.0045 | 0.0078 | -0.0036 |
| | | 247 | 0.6762 | -0.0078 | 0.0096 | 0.0266 | -0.0159 | -0.0036 |
| | 8 | 245 | 1.9587 | -0.0029 | 0.0058 | -0.0099 | 0.0037 | 0.0040 |
| | | 247 | 1.9631 | -0.0072 | 0.0101 | 0.0232 | -0.0174 | 0.0040 |
| 276 | 6 | 245 | -1.3245 | 0.0000 | 0.0030 | -0.0095 | 0.0065 | 0.0090 |
| | | 249 | -1.3202 | -0.0061 | 0.0030 | 0.0030 | -0.0062 | 0.0090 |
| | 8 | 245 | 1.5860 | -0.0054 | 0.0004 | 0.0015 | 0.0108 | -0.0016 |
| | | 249 | 1.5903 | -0.0116 | 0.0004 | 0.0034 | -0.0247 | -0.0016 |
| 277 | 6 | 246 | -1.4907 | 0.0000 | -0.0089 | 0.0197 | -0.0062 | -0.0105 |
| | | 248 | -1.4864 | 0.0061 | -0.0089 | -0.0174 | 0.0067 | -0.0105 |
| | 8 | 246 | -0.3111 | 0.0018 | -0.0010 | -0.0035 | -0.0043 | -0.0048 |
| | | 248 | -0.3068 | 0.0080 | -0.0010 | -0.0079 | 0.0162 | -0.0048 |
| 278 | 6 | 246 | 0.7194 | 0.0105 | -0.0019 | 0.0142 | -0.0267 | 0.0004 |
| | | 247 | 0.7237 | 0.0149 | 0.0024 | 0.0153 | 0.0263 | 0.0004 |
| | 8 | 246 | -1.4537 | 0.0008 | -0.0031 | 0.0042 | -0.0075 | 0.0067 |
| | | 247 | -1.4494 | 0.0051 | 0.0012 | 0.0003 | 0.0048 | 0.0067 |
| 279 | 6 | 244 | 2.7026 | -0.0094 | -0.0067 | 0.0090 | 0.0163 | 0.0058 |
| | | 249 | 2.7070 | -0.0137 | -0.0110 | -0.0280 | -0.0320 | 0.0058 |
| | 8 | 244 | -0.3530 | -0.0065 | 0.0058 | -0.0114 | 0.0199 | -0.0069 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 249 | -0.3487 | -0.0109 | 0.0014 | 0.0036 | -0.0164 | -0.0069 |
| 280 | 6 | 247 | 2.8071 | -0.0117 | 0.0260 | -0.0498 | 0.0218 | 0.0008 |
| | | 251 | 2.8115 | -0.0074 | 0.0217 | 0.0501 | -0.0181 | 0.0008 |
| | 8 | 247 | 2.4995 | -0.0248 | 0.0090 | -0.0138 | 0.0544 | 0.0041 |
| | | 251 | 2.5038 | -0.0204 | 0.0047 | 0.0149 | -0.0401 | 0.0041 |
| 281 | 6 | 248 | 2.6812 | 0.0103 | -0.0274 | 0.0614 | -0.0205 | -0.0030 |
| | | 250 | 2.6855 | 0.0060 | -0.0230 | -0.0441 | 0.0135 | -0.0030 |
| | 8 | 248 | 2.9556 | 0.0205 | -0.0144 | 0.0314 | -0.0386 | -0.0031 |
| | | 250 | 2.9600 | 0.0162 | -0.0101 | -0.0198 | 0.0381 | -0.0031 |
| 282 | 6 | 248 | -1.6054 | -0.0024 | -0.0075 | 0.0314 | 0.0075 | -0.0154 |
| | | 252 | -1.6011 | -0.0086 | -0.0075 | 0.0002 | -0.0154 | -0.0154 |
| | 8 | 248 | 0.8478 | 0.0151 | -0.0191 | 0.0366 | -0.0256 | -0.0060 |
| | | 252 | 0.8522 | 0.0090 | -0.0191 | -0.0432 | 0.0248 | -0.0060 |
| 283 | 6 | 249 | -2.6076 | 0.0016 | -0.0158 | 0.0488 | -0.0076 | 0.0139 |
| | | 251 | -2.6032 | 0.0077 | -0.0158 | -0.0172 | 0.0120 | 0.0139 |
| | 8 | 249 | 1.2631 | -0.0148 | 0.0075 | -0.0144 | 0.0318 | 0.0020 |
| | | 251 | 1.2674 | -0.0086 | 0.0075 | 0.0169 | -0.0172 | 0.0020 |
| 284 | 6 | 249 | 3.9667 | -0.0073 | -0.0325 | 0.0736 | 0.0151 | 0.0024 |
| | | 250 | 3.9710 | -0.0030 | -0.0281 | -0.0532 | -0.0064 | 0.0024 |
| | 8 | 249 | -1.4210 | -0.0030 | 0.0008 | -0.0097 | 0.0110 | -0.0084 |
| | | 250 | -1.4167 | 0.0014 | 0.0051 | 0.0028 | 0.0076 | -0.0084 |
| 285 | 6 | 247 | 2.1700 | 0.0104 | 0.0304 | -0.0559 | -0.0194 | -0.0019 |
| | | 252 | 2.1744 | 0.0061 | 0.0261 | 0.0623 | 0.0150 | -0.0019 |
| | 8 | 247 | -0.9834 | -0.0036 | 0.0047 | -0.0172 | 0.0223 | 0.0059 |
| | | 252 | -0.9791 | -0.0079 | 0.0003 | -0.0067 | -0.0018 | 0.0059 |
| 286 | 6 | 250 | -1.6083 | 0.0027 | -0.0075 | 0.0212 | -0.0102 | -0.0004 |
| | | 254 | -1.6040 | 0.0070 | -0.0118 | -0.0190 | 0.0100 | -0.0004 |
| | 8 | 250 | -0.7423 | 0.0056 | -0.0051 | 0.0151 | -0.0182 | -0.0029 |
| | | 254 | -0.7380 | 0.0099 | -0.0094 | -0.0153 | 0.0143 | -0.0029 |
| 287 | 6 | 251 | -0.2225 | -0.0037 | 0.0113 | -0.0304 | 0.0138 | 0.0032 |
| | | 253 | -0.2182 | -0.0080 | 0.0156 | 0.0257 | -0.0105 | 0.0032 |
| | 8 | 251 | -0.9422 | -0.0041 | 0.0068 | -0.0208 | 0.0130 | 0.0019 |
| | | 253 | -0.9379 | -0.0084 | 0.0111 | 0.0166 | -0.0130 | 0.0019 |
| 288 | 6 | 251 | 1.2764 | 0.0056 | 0.0031 | -0.0113 | -0.0080 | 0.0079 |
| | | 255 | 1.2807 | -0.0005 | 0.0031 | 0.0016 | 0.0026 | 0.0079 |
| | 8 | 251 | -1.3331 | -0.0007 | -0.0131 | 0.0094 | 0.0067 | -0.0055 |
| | | 255 | -1.3288 | -0.0069 | -0.0131 | -0.0452 | -0.0092 | -0.0055 |
| 289 | 6 | 252 | 0.1866 | -0.0071 | 0.0075 | -0.0224 | 0.0120 | -0.0102 |
| | | 254 | 0.1909 | -0.0009 | 0.0075 | 0.0091 | -0.0048 | -0.0102 |
| | 8 | 252 | 0.5342 | 0.0046 | 0.0022 | -0.0097 | -0.0170 | 0.0042 |
| | | 254 | 0.5385 | 0.0108 | 0.0022 | -0.0003 | 0.0152 | 0.0042 |
| 290 | 6 | 252 | 0.4124 | 0.0059 | 0.0127 | -0.0367 | -0.0175 | -0.0045 |
| | | 253 | 0.4168 | 0.0103 | 0.0170 | 0.0254 | 0.0163 | -0.0045 |
| | 8 | 252 | 0.3626 | -0.0046 | -0.0010 | -0.0022 | 0.0077 | 0.0082 |
| | | 253 | 0.3670 | -0.0003 | 0.0033 | 0.0027 | -0.0025 | 0.0082 |
| 291 | 6 | 250 | -3.3119 | -0.0001 | -0.0096 | 0.0259 | 0.0040 | -0.0010 |
| | | 255 | -3.3076 | -0.0045 | -0.0140 | -0.0235 | -0.0056 | -0.0010 |
| | 8 | 250 | 0.1885 | 0.0205 | -0.0136 | 0.0228 | -0.0323 | -0.0139 |
| | | 255 | 0.1928 | 0.0162 | -0.0180 | -0.0433 | 0.0445 | -0.0139 |
| 292 | 6 | 253 | -0.2219 | -0.0025 | 0.0080 | -0.0134 | 0.0040 | -0.0018 |
| | | 257 | -0.2175 | 0.0018 | 0.0037 | 0.0111 | 0.0024 | -0.0018 |
| | 8 | 253 | 0.2428 | -0.0082 | 0.0014 | 0.0000 | 0.0160 | 0.0011 |
| | | 257 | 0.2472 | -0.0038 | -0.0029 | -0.0031 | -0.0091 | 0.0011 |
| 293 | 6 | 254 | 0.6273 | 0.0029 | -0.0066 | 0.0142 | -0.0021 | -0.0003 |
| | | 256 | 0.6316 | -0.0014 | -0.0023 | -0.0045 | 0.0009 | -0.0003 |
| | 8 | 254 | 0.1734 | 0.0078 | -0.0021 | 0.0023 | -0.0138 | -0.0002 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 256 | 0.1778 | 0.0035 | 0.0022 | 0.0024 | 0.0097 | -0.0002 |
| 294 | 6 | 254 | 0.2697 | 0.0025 | -0.0047 | 0.0121 | 0.0000 | -0.0018 |
| | | 258 | 0.2740 | -0.0037 | -0.0047 | -0.0077 | -0.0024 | -0.0018 |
| | 8 | 254 | -0.3885 | 0.0057 | -0.0117 | 0.0159 | -0.0079 | -0.0058 |
| | | 258 | -0.3842 | -0.0004 | -0.0117 | -0.0330 | 0.0032 | -0.0058 |
| 295 | 6 | 255 | 0.2990 | -0.0027 | 0.0030 | -0.0025 | 0.0009 | 0.0012 |
| | | 257 | 0.3034 | 0.0034 | 0.0030 | 0.0102 | 0.0024 | 0.0012 |
| | 8 | 255 | 0.6633 | -0.0046 | 0.0194 | -0.0558 | 0.0063 | 0.0085 |
| | | 257 | 0.6676 | 0.0015 | 0.0194 | 0.0255 | -0.0002 | 0.0085 |
| 296 | 6 | 255 | 0.0584 | -0.0035 | -0.0046 | 0.0079 | 0.0054 | 0.0012 |
| | | 256 | 0.0627 | 0.0009 | -0.0003 | -0.0023 | 0.0001 | 0.0012 |
| | 8 | 255 | 0.0876 | -0.0153 | 0.0115 | -0.0388 | 0.0404 | 0.0073 |
| | | 256 | 0.0919 | -0.0109 | 0.0159 | 0.0185 | -0.0144 | 0.0073 |
| 297 | 6 | 253 | -0.5603 | 0.0043 | 0.0054 | -0.0106 | -0.0063 | 0.0001 |
| | | 258 | -0.5559 | 0.0000 | 0.0011 | 0.0030 | 0.0027 | 0.0001 |
| | 8 | 253 | 0.0066 | 0.0072 | -0.0035 | 0.0027 | -0.0037 | -0.0031 |
| | | 258 | 0.0109 | 0.0029 | -0.0078 | -0.0209 | 0.0174 | -0.0031 |
| 298 | 6 | 256 | -0.4314 | 0.0020 | 0.0055 | -0.0048 | -0.0041 | -0.0024 |
| | | 260 | -0.4271 | 0.0063 | 0.0012 | 0.0093 | 0.0133 | -0.0024 |
| | 8 | 256 | 0.0550 | -0.0036 | -0.0011 | 0.0058 | 0.0044 | -0.0003 |
| | | 260 | 0.0593 | 0.0007 | -0.0054 | -0.0077 | -0.0017 | -0.0003 |
| 299 | 6 | 257 | 0.2367 | -0.0002 | -0.0025 | 0.0034 | 0.0056 | 0.0022 |
| | | 259 | 0.2410 | -0.0045 | 0.0018 | 0.0019 | -0.0042 | 0.0022 |
| | 8 | 257 | -0.1137 | 0.0036 | 0.0007 | -0.0050 | -0.0046 | 0.0000 |
| | | 259 | -0.1094 | -0.0007 | 0.0050 | 0.0070 | 0.0015 | 0.0000 |
| 300 | 6 | 257 | -0.2209 | 0.0024 | -0.0056 | 0.0112 | -0.0008 | 0.0003 |
| | | 261 | -0.2166 | -0.0037 | -0.0056 | -0.0124 | -0.0037 | 0.0003 |
| | 8 | 257 | -0.5107 | 0.0027 | -0.0068 | 0.0061 | -0.0014 | -0.0039 |
| | | 261 | -0.5064 | -0.0034 | -0.0068 | -0.0222 | -0.0027 | -0.0039 |
| 301 | 6 | 258 | -0.0670 | -0.0022 | 0.0062 | -0.0098 | 0.0004 | -0.0018 |
| | | 260 | -0.0627 | 0.0040 | 0.0062 | 0.0162 | 0.0041 | -0.0018 |
| | 8 | 258 | 0.3350 | -0.0018 | 0.0097 | -0.0290 | -0.0010 | 0.0051 |
| | | 260 | 0.3394 | 0.0044 | 0.0097 | 0.0116 | 0.0045 | 0.0051 |
| 302 | 6 | 258 | 0.3427 | -0.0016 | -0.0029 | 0.0014 | 0.0010 | 0.0012 |
| | | 259 | 0.3470 | 0.0027 | 0.0015 | -0.0014 | 0.0032 | 0.0012 |
| | 8 | 258 | 0.0024 | -0.0087 | 0.0047 | -0.0188 | 0.0209 | 0.0056 |
| | | 259 | 0.0067 | -0.0043 | 0.0091 | 0.0100 | -0.0062 | 0.0056 |
| 303 | 6 | 256 | -0.1295 | 0.0044 | 0.0001 | 0.0013 | -0.0042 | -0.0020 |
| | | 261 | -0.1252 | 0.0000 | -0.0042 | -0.0072 | 0.0049 | -0.0020 |
| | 8 | 256 | -0.1664 | 0.0073 | -0.0032 | 0.0046 | -0.0071 | -0.0049 |
| | | 261 | -0.1621 | 0.0030 | -0.0076 | -0.0181 | 0.0143 | -0.0049 |
| 304 | 6 | 259 | -0.3387 | 0.0043 | 0.0091 | -0.0093 | -0.0055 | -0.0052 |
| | | 263 | -0.3344 | 0.0087 | 0.0047 | 0.0196 | 0.0217 | -0.0052 |
| | 8 | 259 | 0.1277 | -0.0048 | 0.0004 | 0.0023 | 0.0072 | 0.0000 |
| | | 263 | 0.1321 | -0.0004 | -0.0040 | -0.0051 | -0.0036 | 0.0000 |
| 305 | 6 | 260 | 0.2164 | -0.0005 | -0.0032 | 0.0083 | 0.0075 | 0.0027 |
| | | 262 | 0.2207 | -0.0049 | 0.0011 | 0.0038 | -0.0038 | 0.0027 |
| | 8 | 260 | -0.1157 | 0.0057 | -0.0008 | -0.0016 | -0.0082 | -0.0006 |
| | | 262 | -0.1114 | 0.0013 | 0.0035 | 0.0041 | 0.0064 | -0.0006 |
| 306 | 6 | 260 | 0.1240 | 0.0041 | -0.0062 | 0.0164 | -0.0042 | 0.0019 |
| | | 264 | 0.1283 | -0.0020 | -0.0062 | -0.0097 | 0.0000 | 0.0019 |
| | 8 | 260 | -0.2186 | 0.0042 | -0.0037 | 0.0032 | -0.0042 | -0.0028 |
| | | 264 | -0.2142 | -0.0020 | -0.0037 | -0.0124 | 0.0005 | -0.0028 |
| 307 | 6 | 261 | 0.2191 | -0.0041 | 0.0151 | -0.0256 | 0.0041 | -0.0037 |
| | | 263 | 0.2234 | 0.0020 | 0.0151 | 0.0378 | -0.0002 | -0.0037 |
| | 8 | 261 | 0.2070 | -0.0032 | 0.0076 | -0.0229 | 0.0025 | 0.0042 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 263 | 0.2113 | 0.0029 | 0.0076 | 0.0088 | 0.0019 | 0.0042 |
| 308 | 6 | 261 | -0.0090 | -0.0021 | 0.0005 | -0.0056 | 0.0046 | 0.0019 |
| | | 262 | -0.0047 | 0.0022 | 0.0048 | 0.0053 | 0.0047 | 0.0019 |
| | 8 | 261 | 0.1883 | -0.0069 | 0.0030 | -0.0144 | 0.0172 | 0.0033 |
| | | 262 | 0.1926 | -0.0025 | 0.0073 | 0.0070 | -0.0024 | 0.0033 |
| 309 | 6 | 259 | -0.3321 | 0.0016 | 0.0025 | -0.0031 | 0.0014 | -0.0006 |
| | | 264 | -0.3278 | -0.0027 | -0.0018 | -0.0016 | -0.0008 | -0.0006 |
| | 8 | 259 | -0.0541 | 0.0051 | 0.0001 | -0.0006 | -0.0038 | -0.0023 |
| | | 264 | -0.0498 | 0.0008 | -0.0042 | -0.0091 | 0.0086 | -0.0023 |
| 310 | 6 | 262 | -0.0593 | -0.0053 | 0.0182 | -0.0166 | 0.0064 | -0.0012 |
| | | 263 | -0.0593 | 0.0008 | 0.0182 | 0.0456 | -0.0013 | -0.0012 |
| | 8 | 262 | -0.1106 | -0.0015 | -0.0047 | 0.0080 | -0.0021 | -0.0008 |
| | | 263 | -0.1106 | 0.0047 | -0.0047 | -0.0080 | 0.0033 | -0.0008 |
| 311 | 6 | 263 | 0.0147 | 0.0029 | -0.0230 | 0.0510 | -0.0007 | -0.0002 |
| | | 264 | 0.0147 | -0.0032 | -0.0230 | -0.0278 | -0.0011 | -0.0002 |
| | 8 | 263 | -0.0061 | 0.0043 | -0.0071 | 0.0053 | -0.0032 | 0.0000 |
| | | 264 | -0.0061 | -0.0018 | -0.0071 | -0.0190 | 0.0010 | 0.0000 |
| 312 | 6 | 264 | 0.0605 | 0.0002 | -0.0021 | 0.0007 | -0.0029 | 0.0005 |
| | | 262 | 0.0605 | 0.0063 | -0.0021 | -0.0064 | 0.0083 | 0.0005 |
| | 8 | 264 | 0.0623 | -0.0013 | 0.0074 | -0.0195 | -0.0013 | -0.0008 |
| | | 262 | 0.0623 | 0.0048 | 0.0074 | 0.0057 | 0.0047 | -0.0008 |
| 401 | 6 | 301 | -18.0052 | -0.0437 | -0.2696 | 0.1687 | 0.0427 | 0.0272 |
| | | 302 | -17.9994 | -0.0437 | -0.2673 | -0.1195 | -0.0042 | 0.0272 |
| | 8 | 301 | -16.9080 | 0.9519 | -0.2129 | 0.1513 | -0.9460 | -0.6022 |
| | | 302 | -16.9022 | 0.9519 | -0.2106 | -0.0759 | 0.0758 | -0.6022 |
| 402 | 6 | 301 | -19.1949 | 0.2429 | 0.0708 | -0.0415 | -0.1697 | 0.0291 |
| | | 303 | -19.1891 | 0.2409 | 0.0697 | 0.0341 | 0.0903 | 0.0291 |
| | 8 | 301 | -17.4417 | -0.2928 | 0.9857 | -0.9082 | 0.3206 | -0.6084 |
| | | 303 | -17.4359 | -0.2948 | 0.9846 | 0.1508 | 0.0047 | -0.6084 |
| 403 | 6 | 301 | -19.2052 | -0.2004 | 0.1483 | -0.1167 | 0.1292 | 0.0254 |
| | | 304 | -19.1994 | -0.1984 | 0.1472 | 0.0421 | -0.0852 | 0.0254 |
| | 8 | 301 | -16.0469 | -0.6897 | -0.7387 | 0.7667 | 0.5829 | -0.6046 |
| | | 304 | -16.0411 | -0.6877 | -0.7398 | -0.0280 | -0.1574 | -0.6046 |
| 404 | 6 | 302 | -0.1053 | 0.1823 | 0.0150 | -0.0036 | -0.1482 | -0.0150 |
| | | 303 | -0.1053 | 0.1783 | 0.0150 | 0.0066 | -0.0255 | -0.0150 |
| | 8 | 302 | -0.1197 | -1.0695 | -0.0180 | 0.0063 | 0.2803 | 0.2558 |
| | | 303 | -0.1197 | -1.0734 | -0.0180 | -0.0060 | -0.4493 | 0.2558 |
| 405 | 6 | 303 | -0.0918 | -0.0553 | -0.0009 | 0.0032 | 0.1124 | -0.0116 |
| | | 304 | -0.0918 | -0.0513 | -0.0009 | 0.0026 | 0.0761 | -0.0116 |
| | 8 | 303 | -0.0655 | 1.2272 | 0.0294 | -0.0079 | -0.3361 | 0.2605 |
| | | 304 | -0.0655 | 1.2311 | 0.0294 | 0.0121 | 0.4998 | 0.2605 |
| 406 | 6 | 304 | -0.1059 | -0.0741 | -0.0127 | 0.0058 | -0.0610 | -0.0082 |
| | | 302 | -0.1059 | -0.0781 | -0.0127 | -0.0029 | -0.1128 | -0.0082 |
| | 8 | 304 | -0.0884 | -1.1966 | -0.0249 | 0.0104 | 0.3299 | 0.2563 |
| | | 302 | -0.0884 | -1.2006 | -0.0249 | -0.0065 | -0.4862 | 0.2563 |
| 407 | 6 | 302 | -17.8173 | -0.0430 | -0.2027 | 0.1033 | 0.0314 | 0.0138 |
| | | 305 | -17.8119 | -0.0430 | -0.2005 | -0.0966 | -0.0112 | 0.0138 |
| | 8 | 302 | -16.8429 | 0.9489 | -0.1754 | 0.0994 | -0.7025 | -0.3061 |
| | | 305 | -16.8375 | 0.9489 | -0.1732 | -0.0735 | 0.2384 | -0.3061 |
| 408 | 6 | 303 | -19.3690 | 0.0802 | -0.0553 | 0.0344 | -0.0473 | 0.0140 |
| | | 306 | -19.3637 | 0.0783 | -0.0563 | -0.0207 | 0.0310 | 0.0140 |
| | 8 | 303 | -17.6413 | -0.4035 | 0.8251 | -0.5881 | 0.2895 | -0.3165 |
| | | 306 | -17.6359 | -0.4054 | 0.8241 | 0.2262 | -0.1098 | -0.3165 |
| 409 | 6 | 304 | -19.3818 | -0.0391 | 0.0204 | -0.0200 | 0.0182 | 0.0142 |
| | | 307 | -19.3765 | -0.0373 | 0.0194 | -0.0004 | -0.0195 | 0.0142 |
| | 8 | 304 | -16.0540 | -0.5176 | -0.8487 | 0.6180 | 0.3507 | -0.3113 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 307 | -16.0487 | -0.5157 | -0.8496 | -0.2204 | -0.1595 | -0.3113 |
| 410 | 6 | 305 | 0.0030 | 0.0684 | 0.0162 | -0.0099 | -0.0927 | -0.0111 |
| | | 306 | 0.0030 | 0.0608 | 0.0162 | 0.0114 | -0.0078 | -0.0111 |
| | 8 | 305 | -0.0029 | -0.5533 | -0.1270 | 0.0846 | 0.3160 | 0.1955 |
| | | 306 | -0.0029 | -0.5609 | -0.1270 | -0.0821 | -0.4151 | 0.1955 |
| 411 | 6 | 306 | -0.2363 | -0.0303 | -0.0059 | 0.0053 | 0.0726 | -0.0089 |
| | | 307 | -0.2363 | -0.0228 | -0.0059 | -0.0024 | 0.0382 | -0.0089 |
| | 8 | 306 | -0.2071 | 0.5973 | 0.1354 | -0.0865 | -0.3406 | 0.1985 |
| | | 307 | -0.2071 | 0.6048 | 0.1354 | 0.0896 | 0.4408 | 0.1985 |
| 412 | 6 | 307 | 0.0032 | -0.0084 | -0.0043 | 0.0036 | -0.0423 | -0.0065 |
| | | 305 | 0.0032 | -0.0160 | -0.0043 | -0.0021 | -0.0583 | -0.0065 |
| | 8 | 307 | 0.0114 | -0.6022 | -0.1429 | 0.0941 | 0.3510 | 0.1973 |
| | | 305 | 0.0114 | -0.6098 | -0.1429 | -0.0934 | -0.4442 | 0.1973 |
| 413 | 6 | 305 | -17.7286 | -0.0329 | -0.0821 | 0.0322 | 0.0217 | 0.0091 |
| | | 308 | -17.7233 | -0.0329 | -0.0800 | -0.0471 | -0.0106 | 0.0091 |
| | 8 | 305 | -16.7799 | 0.7298 | -0.0713 | 0.0337 | -0.4932 | -0.2060 |
| | | 308 | -16.7746 | 0.7298 | -0.0692 | -0.0350 | 0.2211 | -0.2060 |
| 414 | 6 | 306 | -19.4676 | 0.1042 | 0.0026 | -0.0079 | -0.0562 | 0.0115 |
| | | 309 | -19.4624 | 0.1023 | 0.0016 | -0.0058 | 0.0451 | 0.0115 |
| | 8 | 306 | -17.7410 | -0.2585 | 0.6679 | -0.4514 | 0.1827 | -0.2065 |
| | | 309 | -17.7358 | -0.2603 | 0.6669 | 0.2035 | -0.0718 | -0.2065 |
| 415 | 6 | 307 | -19.4812 | -0.0731 | 0.0613 | -0.0463 | 0.0362 | 0.0068 |
| | | 310 | -19.4760 | -0.0712 | 0.0604 | 0.0134 | -0.0345 | 0.0068 |
| | 8 | 307 | -16.1056 | -0.4179 | -0.6075 | 0.4128 | 0.2650 | -0.2078 |
| | | 310 | -16.1004 | -0.4160 | -0.6085 | -0.1838 | -0.1442 | -0.2078 |
| 416 | 6 | 308 | 0.0601 | 0.0268 | 0.0032 | -0.0029 | -0.0585 | -0.0079 |
| | | 309 | 0.0601 | 0.0156 | 0.0032 | 0.0034 | -0.0173 | -0.0079 |
| | 8 | 308 | 0.0642 | -0.3157 | -0.0888 | 0.0863 | 0.2743 | 0.1518 |
| | | 309 | 0.0642 | -0.3269 | -0.0888 | -0.0860 | -0.3490 | 0.1518 |
| 417 | 6 | 309 | 0.2242 | -0.0191 | -0.0035 | 0.0038 | 0.0540 | -0.0064 |
| | | 310 | 0.2242 | -0.0079 | -0.0035 | -0.0030 | 0.0278 | -0.0064 |
| | 8 | 309 | 0.2033 | 0.3213 | 0.0884 | -0.0851 | -0.2792 | 0.1528 |
| | | 310 | 0.2032 | 0.3325 | 0.0884 | 0.0864 | 0.3549 | 0.1528 |
| 418 | 6 | 310 | 0.0622 | 0.0123 | 0.0038 | -0.0035 | -0.0443 | -0.0051 |
| | | 308 | 0.0622 | 0.0010 | 0.0038 | 0.0039 | -0.0314 | -0.0051 |
| | 8 | 310 | 0.0545 | -0.3182 | -0.0877 | 0.0856 | 0.2777 | 0.1526 |
| | | 308 | 0.0545 | -0.3295 | -0.0877 | -0.0846 | -0.3506 | 0.1526 |
| 419 | 6 | 308 | -17.6610 | -0.0260 | -0.1023 | 0.0294 | 0.0150 | 0.0064 |
| | | 311 | -17.6556 | -0.0260 | -0.1002 | -0.0706 | -0.0107 | 0.0064 |
| | 8 | 308 | -16.7246 | 0.5776 | -0.0970 | 0.0276 | -0.3772 | -0.1543 |
| | | 311 | -16.7192 | 0.5776 | -0.0949 | -0.0672 | 0.1935 | -0.1543 |
| 420 | 6 | 309 | -19.3694 | 0.0877 | 0.0204 | -0.0080 | -0.0247 | 0.0069 |
| | | 312 | -19.3641 | 0.0859 | 0.0194 | 0.0117 | 0.0609 | 0.0069 |
| | 8 | 309 | -17.6425 | -0.1990 | 0.5556 | -0.3507 | 0.1610 | -0.1537 |
| | | 312 | -17.6371 | -0.2008 | 0.5546 | 0.1974 | -0.0364 | -0.1537 |
| 421 | 6 | 310 | -19.3811 | -0.0626 | 0.0702 | -0.0334 | 0.0119 | 0.0061 |
| | | 313 | -19.3758 | -0.0608 | 0.0692 | 0.0354 | -0.0490 | 0.0061 |
| | 8 | 310 | -16.0091 | -0.3542 | -0.4655 | 0.3154 | 0.1975 | -0.1543 |
| | | 313 | -16.0038 | -0.3524 | -0.4665 | -0.1447 | -0.1514 | -0.1543 |
| 422 | 6 | 311 | -0.3105 | 0.0186 | 0.0009 | -0.0021 | -0.0338 | -0.0038 |
| | | 312 | -0.3105 | 0.0037 | 0.0009 | 0.0003 | -0.0053 | -0.0038 |
| | 8 | 311 | -0.3699 | -0.1947 | -0.0569 | 0.0727 | 0.2400 | 0.1243 |
| | | 312 | -0.3699 | -0.2095 | -0.0569 | -0.0733 | -0.2779 | 0.1243 |
| 423 | 6 | 312 | -0.3855 | -0.0132 | -0.0017 | 0.0007 | 0.0262 | -0.0035 |
| | | 313 | -0.3855 | 0.0016 | -0.0017 | -0.0035 | 0.0112 | -0.0035 |
| | 8 | 312 | -0.3927 | 0.2032 | 0.0565 | -0.0731 | -0.2536 | 0.1244 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 313 | -0.3927 | 0.2180 | 0.0565 | 0.0715 | 0.2855 | 0.1244 |
| 424 | 6 | 313 | -0.3526 | 0.0094 | 0.0024 | -0.0036 | -0.0215 | -0.0042 |
| | | 311 | -0.3526 | -0.0054 | 0.0024 | 0.0025 | -0.0163 | -0.0042 |
| | 8 | 313 | -0.3327 | -0.1894 | -0.0558 | 0.0710 | 0.2348 | 0.1223 |
| | | 311 | -0.3326 | -0.2042 | -0.0558 | -0.0719 | -0.2695 | 0.1223 |
| 425 | 6 | 311 | -17.8431 | -0.0437 | 0.4423 | -0.0269 | 0.0056 | 0.0049 |
| | | 314 | -17.8377 | -0.0437 | 0.4444 | 0.4111 | -0.0376 | 0.0049 |
| | 8 | 311 | -16.9324 | 0.4988 | 0.4741 | -0.0435 | -0.2952 | -0.1183 |
| | | 314 | -16.9271 | 0.4988 | 0.4762 | 0.4259 | 0.1976 | -0.1183 |
| 426 | 6 | 312 | -19.5740 | -0.4282 | -0.2119 | 0.0128 | 0.0293 | 0.0019 |
| | | 315 | -19.5687 | -0.4300 | -0.2128 | -0.1969 | -0.3944 | 0.0019 |
| | 8 | 312 | -17.8711 | -0.7012 | 0.1878 | -0.2530 | 0.1854 | -0.1156 |
| | | 315 | -17.8657 | -0.7030 | 0.1868 | -0.0680 | -0.5079 | -0.1156 |
| 427 | 6 | 313 | -19.5976 | 0.4703 | -0.2025 | 0.0102 | -0.0308 | 0.0083 |
| | | 316 | -19.5923 | 0.4721 | -0.2035 | -0.1903 | 0.4345 | 0.0083 |
| | 8 | 313 | -16.2051 | 0.2291 | -0.6356 | 0.2707 | 0.1179 | -0.1146 |
| | | 316 | -16.1997 | 0.2309 | -0.6366 | -0.3574 | 0.3450 | -0.1146 |
| 428 | 6 | 314 | 2.1924 | 0.0102 | -0.0001 | 0.0008 | -0.1227 | -0.0018 |
| | | 315 | 2.1924 | -0.0083 | -0.0001 | 0.0004 | -0.1196 | -0.0018 |
| | 8 | 314 | 2.3119 | -0.1331 | -0.0290 | 0.0453 | 0.0963 | 0.0960 |
| | | 315 | 2.3119 | -0.1515 | -0.0290 | -0.0471 | -0.3570 | 0.0960 |
| 429 | 6 | 315 | 2.3723 | -0.0015 | -0.0017 | 0.0016 | 0.1228 | -0.0016 |
| | | 316 | 2.3723 | 0.0169 | -0.0017 | -0.0037 | 0.1474 | -0.0016 |
| | 8 | 315 | 2.3372 | 0.1398 | 0.0294 | -0.0470 | -0.1015 | 0.1037 |
| | | 316 | 2.3371 | 0.1582 | 0.0294 | 0.0466 | 0.3723 | 0.1037 |
| 430 | 6 | 316 | 2.3727 | 0.0100 | 0.0016 | -0.0041 | -0.1292 | 0.0080 |
| | | 314 | 2.3727 | -0.0084 | 0.0016 | 0.0008 | -0.1266 | 0.0080 |
| | 8 | 316 | 2.1795 | -0.1042 | -0.0280 | 0.0454 | 0.0562 | 0.1033 |
| | | 314 | 2.1795 | -0.1227 | -0.0280 | -0.0439 | -0.3052 | 0.1033 |
| 431 | 6 | 314 | -16.3684 | 0.0476 | -3.2809 | 0.6222 | -0.0443 | 0.0077 |
| | | 1 | -16.3665 | 0.0476 | -3.2802 | -0.5413 | -0.0274 | 0.0077 |
| | 8 | 314 | -15.5085 | 0.4062 | -3.1984 | 0.6008 | -0.1835 | -0.0646 |
| | | 1 | -15.5066 | 0.4062 | -3.1977 | -0.5335 | -0.0395 | -0.0646 |
| 432 | 6 | 315 | -18.0281 | 3.2928 | 1.6901 | -0.2893 | -0.5830 | 0.0012 |
| | | 3 | -18.0262 | 3.2921 | 1.6897 | 0.3157 | 0.5959 | 0.0012 |
| | 8 | 315 | -16.2967 | 3.0169 | 2.1414 | -0.5340 | -0.5110 | -0.0521 |
| | | 3 | -16.2948 | 3.0162 | 2.1410 | 0.2327 | 0.5691 | -0.0521 |
| 433 | 6 | 316 | -17.9759 | -3.3315 | 1.8416 | -0.2943 | 0.6556 | 0.0227 |
| | | 2 | -17.9740 | -3.3308 | 1.8412 | 0.3650 | -0.5371 | 0.0227 |
| | 8 | 316 | -14.6365 | -3.3443 | 1.2243 | -0.1275 | 0.7755 | -0.0499 |
| | | 2 | -14.6346 | -3.3436 | 1.2240 | 0.3108 | -0.4218 | -0.0499 |
| 501 | 6 | 178 | 1.5794 | 0.0556 | -0.0420 | 0.0983 | -0.1751 | -0.0796 |
| | | 401 | 1.6111 | 0.0243 | -0.0336 | -0.1980 | 0.1378 | -0.0796 |
| | 8 | 178 | -3.4800 | 0.0361 | -0.0504 | 0.1664 | -0.0983 | -0.0402 |
| | | 401 | -3.4484 | 0.0048 | -0.0419 | -0.1953 | 0.0620 | -0.0402 |
| 502 | 6 | 180 | -0.0956 | 0.0325 | -0.0498 | 0.1502 | -0.1438 | -0.0816 |
| | | 401 | -0.0639 | 0.0070 | -0.0255 | -0.1585 | 0.0182 | -0.0816 |
| | 8 | 180 | -0.4252 | 0.0054 | -0.0184 | -0.0035 | 0.0136 | -0.0308 |
| | | 401 | -0.3936 | -0.0203 | 0.0058 | -0.0551 | -0.0474 | -0.0308 |
| 503 | 6 | 180 | -13.4004 | -0.0196 | -0.1039 | 0.1755 | 0.0496 | -0.0675 |
| | | 402 | -13.4387 | -0.0478 | 0.0521 | -0.0272 | -0.2143 | -0.0675 |
| | 8 | 180 | -11.5619 | -0.0890 | -0.0348 | 0.0041 | 0.2119 | -0.0299 |
| | | 402 | -11.4428 | 0.0052 | 0.0246 | -0.0360 | -0.1164 | -0.0299 |
| 504 | 6 | 179 | -7.8213 | 0.0199 | 0.0053 | 0.0407 | -0.0375 | 0.0044 |
| | | 404 | -7.7896 | 0.0129 | -0.0264 | -0.0421 | 0.0911 | 0.0044 |
| | 8 | 179 | 3.3684 | -0.0788 | 0.0625 | -0.1014 | 0.0934 | 0.1015 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 404 | 3.4174 | 0.0689 | 0.0137 | 0.1970 | 0.0547 | 0.1015 |
| 505 | 6 | 180 | -8.2307 | 0.0221 | 0.0145 | 0.0084 | -0.0902 | -0.0084 |
| | | 403 | -8.1990 | 0.0292 | -0.0172 | -0.0023 | 0.1107 | -0.0084 |
| | 8 | 180 | -16.7432 | -0.0001 | 0.0098 | -0.0736 | -0.0332 | 0.0796 |
| | | 403 | -16.7116 | 0.0069 | -0.0218 | -0.1207 | -0.0069 | 0.0796 |
| 506 | 6 | 179 | -0.4873 | 0.0166 | 0.0059 | 0.0341 | -0.0146 | 0.0026 |
| | | 403 | -0.4557 | -0.0035 | -0.0231 | -0.0366 | 0.0388 | 0.0026 |
| | 8 | 179 | -0.4940 | -0.0042 | -0.0203 | 0.1747 | 0.0367 | 0.0838 |
| | | 403 | -0.4624 | -0.0243 | -0.0493 | -0.1102 | -0.0798 | 0.0838 |
| 507 | 6 | 179 | -13.3969 | -0.0063 | -0.0774 | 0.0965 | 0.0447 | 0.0541 |
| | | 405 | -13.4351 | 0.0219 | 0.0786 | 0.1009 | 0.1055 | 0.0541 |
| | 8 | 179 | -0.2075 | -0.0616 | -0.0198 | 0.0957 | 0.2067 | -0.0253 |
| | | 405 | -0.1757 | -0.0335 | -0.0039 | 0.0028 | -0.1657 | -0.0253 |
| 508 | 6 | 178 | -0.5179 | -0.0051 | 0.0002 | -0.0262 | -0.0281 | 0.0488 |
| | | 405 | -0.4862 | 0.0301 | 0.0023 | -0.0161 | 0.0747 | 0.0488 |
| | 8 | 178 | -0.1293 | -0.0298 | 0.0119 | -0.0326 | 0.0627 | -0.0331 |
| | | 405 | -0.0976 | 0.0053 | 0.0140 | 0.0736 | -0.0378 | -0.0331 |
| 509 | 6 | 178 | 2.0591 | -0.0605 | -0.0242 | 0.0512 | 0.1669 | 0.0688 |
| | | 406 | 2.0908 | -0.0293 | -0.0158 | -0.1054 | -0.1850 | 0.0688 |
| | 8 | 178 | -7.7340 | -0.0087 | 0.0212 | -0.0684 | -0.0114 | -0.0093 |
| | | 406 | -7.7022 | 0.0225 | 0.0297 | 0.1313 | 0.0427 | -0.0093 |
| 510 | 6 | 401 | -0.0602 | -0.9410 | 1.1904 | -0.9753 | 0.6999 | -0.1491 |
| | | 402 | -0.0602 | -0.9508 | 1.1904 | 1.0565 | -0.9145 | -0.1491 |
| | 8 | 401 | -0.0348 | -0.5107 | 0.7940 | -0.7353 | 0.4125 | -0.0750 |
| | | 402 | -0.0348 | -0.5206 | 0.7940 | 0.6199 | -0.4676 | -0.0750 |
| 511 | 6 | 403 | 0.0248 | -0.0558 | -0.2184 | 0.2273 | 0.0624 | -0.0061 |
| | | 404 | 0.0248 | -0.0459 | -0.2184 | -0.1441 | -0.0240 | -0.0061 |
| | 8 | 403 | 0.0565 | -1.3210 | 1.1604 | -1.0567 | 1.1468 | 0.1826 |
| | | 404 | 0.0565 | -1.3112 | 1.1604 | 0.9160 | -1.0906 | 0.1826 |
| 512 | 6 | 405 | 0.0488 | 1.0193 | -0.8886 | 0.8368 | -0.9598 | 0.1509 |
| | | 406 | 0.0488 | 1.0094 | -0.8886 | -0.6798 | 0.7715 | 0.1509 |
| | 8 | 405 | 0.0577 | -0.4288 | 0.5627 | -0.4003 | 0.2692 | -0.0782 |
| | | 406 | 0.0577 | -0.4386 | 0.5627 | 0.5600 | -0.4710 | -0.0782 |
| 513 | 6 | 401 | 1.1360 | -0.2892 | -0.1238 | 0.0872 | 0.3660 | 0.9485 |
| | | 410 | 1.1488 | -0.3213 | -0.1192 | -0.6448 | -1.4733 | 0.9485 |
| | 8 | 401 | -5.5913 | -0.2194 | -0.0215 | -0.0447 | 0.1883 | 0.4261 |
| | | 410 | -5.5785 | -0.2515 | -0.0169 | -0.1605 | -1.2304 | 0.4261 |
| 514 | 6 | 402 | -17.1240 | 0.0204 | -0.2434 | 0.2725 | -0.1878 | 0.9843 |
| | | 410 | -17.1810 | -0.0106 | -0.1360 | -0.8713 | -0.1581 | 0.9843 |
| | 8 | 402 | -15.0649 | -0.0979 | -0.1064 | 0.1339 | -0.0425 | 0.5114 |
| | | 410 | -14.9643 | -0.0748 | -0.0349 | -0.2922 | -0.5632 | 0.5114 |
| 515 | 6 | 403 | -11.4701 | 0.0263 | -0.1392 | 0.0615 | 0.0543 | -0.0561 |
| | | 411 | -11.4574 | 0.0388 | -0.1692 | -0.8681 | 0.2506 | -0.0561 |
| | 8 | 403 | -21.5703 | -0.2881 | -0.0144 | -0.2169 | 0.3428 | -1.1904 |
| | | 411 | -21.5741 | -0.1630 | -0.0047 | -0.2744 | -1.0169 | -1.1904 |
| 516 | 6 | 404 | -10.7492 | -0.0487 | -0.1360 | 0.0494 | 0.0174 | 0.0382 |
| | | 411 | -10.7365 | -0.0612 | -0.1660 | -0.8611 | -0.3137 | 0.0382 |
| | 8 | 404 | 3.0266 | -0.3135 | -0.2110 | 0.2666 | 0.3447 | -1.1238 |
| | | 411 | 3.0394 | -0.3260 | -0.2410 | -1.0957 | -1.5831 | -1.1238 |
| 517 | 6 | 405 | -17.4609 | -0.0244 | -0.2471 | 0.2920 | 0.2081 | -0.9777 |
| | | 412 | -17.5180 | 0.0066 | -0.1397 | -0.8738 | 0.1545 | -0.9777 |
| | 8 | 405 | -0.7911 | 0.1176 | 0.1275 | -0.1460 | -0.1512 | 0.5108 |
| | | 412 | -0.7782 | 0.1486 | 0.1367 | 0.6503 | 0.6511 | 0.5108 |
| 518 | 6 | 406 | 1.6029 | 0.2830 | -0.1392 | 0.1525 | -0.3427 | -0.9403 |
| | | 412 | 1.6157 | 0.3151 | -0.1346 | -0.6722 | 1.4590 | -0.9403 |
| | 8 | 406 | -9.9040 | -0.0454 | 0.0846 | -0.0512 | 0.1357 | 0.5241 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 412 | -9.8911 | -0.0133 | 0.0892 | 0.4722 | -0.0412 | 0.5241 |
| 519 | 6 | 407 | 14.1314 | -0.0889 | 0.0780 | -0.4532 | 0.3868 | 0.5450 |
| | | 410 | 14.1314 | -0.1537 | 0.0780 | 0.4201 | -0.9718 | 0.5450 |
| | 8 | 407 | 13.4912 | -0.0743 | 0.0219 | -0.1441 | 0.3008 | 0.2376 |
| | | 410 | 13.4910 | -0.1391 | 0.0219 | 0.1015 | -0.8944 | 0.2376 |
| 520 | 6 | 408 | 3.4356 | 0.0404 | -0.0251 | -0.2038 | -0.1515 | 0.5393 |
| | | 410 | 3.2955 | -0.0244 | 0.1498 | 0.4947 | -0.0620 | 0.5393 |
| | 8 | 408 | 8.7236 | -0.0117 | -0.0320 | -0.1146 | 0.0412 | 0.2775 |
| | | 410 | 8.8984 | -0.0770 | 0.1079 | 0.3107 | -0.4556 | 0.2775 |
| 521 | 6 | 408 | 12.2493 | 0.0485 | 0.0074 | -0.0240 | -0.1798 | -0.0243 |
| | | 411 | 12.2491 | 0.1132 | 0.0074 | 0.0590 | 0.7258 | -0.0243 |
| | 8 | 408 | 4.7199 | -0.0425 | -0.0372 | -0.1993 | 0.1813 | -0.6403 |
| | | 411 | 4.6859 | 0.0222 | 0.1843 | 0.6249 | 0.0675 | -0.6403 |
| 522 | 6 | 409 | 11.9674 | -0.0492 | 0.0055 | -0.0507 | 0.1845 | 0.0213 |
| | | 411 | 11.9672 | -0.1140 | 0.0055 | 0.0110 | -0.7296 | 0.0213 |
| | 8 | 409 | 15.4989 | -0.1114 | -0.0827 | 0.4641 | 0.4677 | -0.6251 |
| | | 411 | 15.4987 | -0.1762 | -0.0827 | -0.4627 | -1.1429 | -0.6251 |
| 523 | 6 | 409 | 3.8059 | -0.0385 | -0.0294 | -0.1486 | 0.1433 | -0.5278 |
| | | 412 | 3.6658 | 0.0262 | 0.1455 | 0.5022 | 0.0742 | -0.5278 |
| | 8 | 409 | 9.0535 | 0.0390 | -0.0542 | 0.3034 | -0.1957 | 0.3053 |
| | | 412 | 9.0536 | 0.1038 | -0.0542 | -0.3040 | 0.6040 | 0.3053 |
| 524 | 6 | 407 | 13.6156 | 0.0888 | 0.0769 | -0.4208 | -0.3888 | -0.5342 |
| | | 412 | 13.6156 | 0.1536 | 0.0769 | 0.4402 | 0.9686 | -0.5342 |
| | 8 | 407 | 2.5222 | -0.0285 | -0.0282 | 0.1534 | 0.0786 | 0.2826 |
| | | 412 | 2.5223 | 0.0363 | -0.0282 | -0.1628 | 0.1222 | 0.2826 |
| 525 | 6 | 407 | -1.4667 | 0.0143 | -0.0230 | -0.0327 | 0.0643 | 0.0651 |
| | | 401 | -1.4795 | -0.0178 | -0.0276 | -0.1851 | 0.0538 | 0.0651 |
| | 8 | 407 | -3.5987 | 0.0481 | -0.1009 | 0.2448 | -0.0584 | 0.0153 |
| | | 401 | -3.6116 | 0.0161 | -0.1055 | -0.3771 | 0.1351 | 0.0153 |
| 526 | 6 | 408 | -5.4668 | 0.0324 | -0.0776 | 0.1055 | -0.0658 | 0.0138 |
| | | 402 | -5.4796 | 0.0013 | -0.0868 | -0.3896 | 0.0357 | 0.0138 |
| | 8 | 408 | -5.4571 | 0.0377 | -0.0380 | 0.0155 | -0.0549 | 0.0148 |
| | | 402 | -5.4700 | 0.0067 | -0.0472 | -0.2409 | 0.0786 | 0.0148 |
| 527 | 6 | 408 | -5.1088 | -0.0739 | -0.0117 | -0.0076 | 0.1898 | 0.0167 |
| | | 403 | -5.1217 | -0.0613 | 0.0181 | 0.0116 | -0.2171 | 0.0167 |
| | 8 | 408 | -7.0993 | 0.0469 | -0.0383 | 0.0816 | -0.0246 | 0.0203 |
| | | 403 | -7.1122 | 0.0595 | -0.0085 | -0.0592 | 0.2955 | 0.0203 |
| 528 | 6 | 409 | -4.5602 | 0.0084 | -0.0423 | 0.0643 | -0.0366 | 0.0088 |
| | | 404 | -4.5731 | -0.0042 | -0.0125 | -0.1007 | -0.0241 | 0.0088 |
| | 8 | 409 | -0.9529 | 0.0540 | -0.0269 | 0.0191 | 0.0027 | -0.0350 |
| | | 404 | -0.9658 | 0.0414 | 0.0029 | -0.0531 | 0.2898 | -0.0350 |
| 529 | 6 | 409 | -5.7723 | -0.0239 | -0.0441 | 0.0507 | 0.0463 | 0.0155 |
| | | 405 | -5.7851 | 0.0072 | -0.0533 | -0.2428 | -0.0040 | 0.0155 |
| | 8 | 409 | -1.2452 | -0.0209 | -0.0327 | 0.1648 | 0.0194 | 0.0615 |
| | | 405 | -1.2579 | 0.0101 | -0.0420 | -0.0600 | -0.0131 | 0.0615 |
| 530 | 6 | 407 | -1.0589 | -0.0222 | 0.0158 | -0.1179 | -0.0487 | -0.0483 |
| | | 406 | -1.0718 | 0.0099 | 0.0112 | -0.0367 | -0.0856 | -0.0483 |
| | 8 | 407 | -3.3396 | -0.0032 | 0.0605 | -0.1287 | -0.0010 | -0.0065 |
| | | 406 | -3.3524 | 0.0289 | 0.0559 | 0.2220 | 0.0765 | -0.0065 |
| 601 | 6 | 238 | -0.1390 | 0.0307 | -0.0241 | 0.0321 | -0.0694 | -0.0311 |
| | | 501 | -0.1073 | -0.0006 | -0.0156 | -0.1234 | 0.0484 | -0.0311 |
| | 8 | 238 | -3.5724 | 0.0293 | -0.0128 | 0.0082 | -0.0871 | -0.0297 |
| | | 501 | -3.5407 | -0.0020 | -0.0043 | -0.0590 | 0.0202 | -0.0297 |
| 602 | 6 | 240 | 0.2464 | 0.0309 | -0.0169 | -0.0171 | -0.1242 | -0.0507 |
| | | 501 | 0.2781 | 0.0054 | 0.0075 | -0.0557 | 0.0247 | -0.0507 |
| | 8 | 240 | -0.0792 | 0.0138 | -0.0171 | 0.0123 | -0.0305 | -0.0047 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 501 | -0.0475 | -0.0118 | 0.0072 | -0.0280 | -0.0224 | -0.0047 |
| 603 | 6 | 240 | -9.5890 | -0.0091 | -0.0792 | 0.0300 | 0.0225 | -0.0375 |
| | | 502 | -9.6346 | -0.0373 | 0.0908 | 0.0754 | -0.1592 | -0.0375 |
| | 8 | 240 | -6.3348 | -0.0655 | -0.0373 | 0.0347 | 0.0993 | -0.0016 |
| | | 502 | -6.2070 | 0.0410 | 0.0265 | -0.0077 | 0.0032 | -0.0016 |
| 604 | 6 | 239 | -7.3171 | 0.0237 | 0.0196 | -0.0481 | -0.0618 | 0.0093 |
| | | 504 | -7.2854 | 0.0166 | -0.0120 | -0.0180 | 0.0959 | 0.0093 |
| | 8 | 239 | 0.2649 | -0.0748 | 0.0457 | -0.0809 | 0.0554 | 0.0266 |
| | | 504 | 0.3156 | 0.0884 | -0.0048 | 0.0795 | 0.1089 | 0.0266 |
| 605 | 6 | 240 | -7.1397 | 0.0021 | 0.0326 | -0.0955 | 0.0138 | -0.0292 |
| | | 503 | -7.1080 | 0.0091 | 0.0010 | 0.0362 | 0.0577 | -0.0292 |
| | 8 | 240 | -8.6452 | 0.0037 | 0.0165 | -0.0622 | -0.0364 | 0.0138 |
| | | 503 | -8.6135 | 0.0107 | -0.0151 | -0.0564 | 0.0203 | 0.0138 |
| 606 | 6 | 239 | -0.3438 | 0.0244 | 0.0183 | -0.0438 | -0.0589 | 0.0073 |
| | | 503 | -0.3121 | 0.0044 | -0.0107 | -0.0126 | 0.0591 | 0.0073 |
| | 8 | 239 | -0.7950 | 0.0144 | -0.0031 | 0.0633 | -0.0489 | 0.0221 |
| | | 503 | -0.7633 | -0.0057 | -0.0321 | -0.0810 | -0.0130 | 0.0221 |
| 607 | 6 | 239 | -9.0850 | -0.0040 | -0.0723 | 0.0445 | 0.0097 | 0.0218 |
| | | 505 | -9.1305 | 0.0242 | 0.0977 | 0.1440 | 0.0887 | 0.0218 |
| | 8 | 239 | -0.9752 | -0.0285 | -0.0019 | 0.0004 | 0.0563 | -0.0055 |
| | | 505 | -0.9434 | -0.0004 | 0.0140 | 0.0475 | -0.0569 | -0.0055 |
| 608 | 6 | 238 | -0.6388 | -0.0052 | 0.0091 | -0.0655 | -0.0251 | 0.0135 |
| | | 505 | -0.6071 | 0.0300 | 0.0113 | 0.0181 | 0.0765 | 0.0135 |
| | 8 | 238 | 0.0069 | -0.0213 | -0.0065 | 0.0571 | 0.0215 | -0.0325 |
| | | 505 | 0.0386 | 0.0138 | -0.0044 | 0.0126 | -0.0093 | -0.0325 |
| 609 | 6 | 238 | 0.4897 | -0.0393 | -0.0049 | -0.0245 | 0.0894 | 0.0251 |
| | | 506 | 0.5214 | -0.0080 | 0.0035 | -0.0300 | -0.0961 | 0.0251 |
| | 8 | 238 | -5.3962 | -0.0002 | 0.0007 | 0.0265 | -0.0533 | -0.0207 |
| | | 506 | -5.3644 | 0.0310 | 0.0092 | 0.0654 | 0.0675 | -0.0207 |
| 610 | 6 | 501 | -0.1316 | -0.7609 | 0.8702 | -0.7193 | 0.5740 | -0.1217 |
| | | 502 | -0.1316 | -0.7708 | 0.8702 | 0.7658 | -0.7331 | -0.1217 |
| | 8 | 501 | -0.0522 | -0.2256 | 0.3772 | -0.3344 | 0.1687 | -0.0373 |
| | | 502 | -0.0522 | -0.2355 | 0.3772 | 0.3094 | -0.2247 | -0.0373 |
| 611 | 6 | 503 | 0.0250 | -0.0051 | -0.2267 | 0.2055 | 0.0312 | -0.0160 |
| | | 504 | 0.0250 | 0.0047 | -0.2267 | -0.1800 | 0.0308 | -0.0160 |
| | 8 | 503 | 0.1526 | -0.7217 | 0.5782 | -0.5382 | 0.6111 | 0.1081 |
| | | 504 | 0.1526 | -0.7119 | 0.5782 | 0.4447 | -0.6075 | 0.1081 |
| 612 | 6 | 505 | 0.0666 | 0.7683 | -0.6258 | 0.5737 | -0.7146 | 0.1057 |
| | | 506 | 0.0666 | 0.7584 | -0.6258 | -0.4943 | 0.5883 | 0.1057 |
| | 8 | 505 | 0.0013 | -0.3339 | 0.3917 | -0.3030 | 0.2358 | -0.0652 |
| | | 506 | 0.0013 | -0.3438 | 0.3917 | 0.3655 | -0.3425 | -0.0652 |
| 613 | 6 | 501 | -0.5848 | -0.2245 | -0.1129 | 0.1257 | 0.2788 | 0.7459 |
| | | 510 | -0.5720 | -0.2566 | -0.1083 | -0.5405 | -1.1707 | 0.7459 |
| | 8 | 501 | -4.9915 | -0.1118 | -0.0120 | -0.0017 | 0.0829 | 0.1659 |
| | | 510 | -4.9787 | -0.1439 | -0.0074 | -0.0602 | -0.6873 | 0.1659 |
| 614 | 6 | 502 | -12.1227 | 0.0170 | -0.2242 | 0.2929 | -0.1481 | 0.7777 |
| | | 510 | -12.1869 | -0.0140 | -0.1070 | -0.7055 | -0.1390 | 0.7777 |
| | 8 | 502 | -8.2197 | -0.0831 | -0.0684 | 0.0915 | 0.0154 | 0.2145 |
| | | 510 | -8.1105 | -0.0544 | 0.0094 | -0.0863 | -0.3991 | 0.2145 |
| 615 | 6 | 503 | -9.8861 | 0.0430 | -0.1276 | 0.0712 | 0.0074 | 0.0172 |
| | | 511 | -9.8733 | 0.0555 | -0.1576 | -0.7885 | 0.3044 | 0.0172 |
| | 8 | 503 | -11.6699 | -0.2229 | -0.0271 | -0.0943 | 0.3065 | -0.7090 |
| | | 511 | -11.6757 | -0.0866 | -0.0134 | -0.2164 | -0.6264 | -0.7090 |
| 616 | 6 | 504 | -9.9724 | -0.0279 | -0.1158 | 0.0437 | 0.0003 | 0.0943 |
| | | 511 | -9.9596 | -0.0404 | -0.1457 | -0.7445 | -0.2054 | 0.0943 |
| | 8 | 504 | -0.4700 | -0.2102 | -0.1144 | 0.1207 | 0.2841 | -0.6632 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 511 | -0.4572 | -0.2227 | -0.1443 | -0.6591 | -1.0209 | -0.6632 |
| 617 | 6 | 505 | -12.0747 | -0.0219 | -0.2218 | 0.3022 | 0.1691 | -0.7462 |
| | | 512 | -12.1389 | 0.0091 | -0.1047 | -0.6820 | 0.1304 | -0.7462 |
| | 8 | 505 | -1.5556 | 0.0804 | 0.0938 | -0.1128 | -0.0863 | 0.3692 |
| | | 512 | -1.5428 | 0.1114 | 0.1031 | 0.4808 | 0.4918 | 0.3692 |
| 618 | 6 | 506 | -0.2345 | 0.2127 | -0.1179 | 0.1596 | -0.2545 | -0.7120 |
| | | 512 | -0.2217 | 0.2448 | -0.1134 | -0.5372 | 1.1234 | -0.7120 |
| | 8 | 506 | -6.8361 | -0.0377 | 0.0686 | -0.0665 | 0.1179 | 0.3887 |
| | | 512 | -6.8233 | -0.0056 | 0.0732 | 0.3605 | -0.0126 | 0.3887 |
| 619 | 6 | 507 | 9.6174 | -0.0586 | 0.0548 | -0.2998 | 0.2559 | 0.4236 |
| | | 510 | 9.6174 | -0.1234 | 0.0548 | 0.3145 | -0.7636 | 0.4236 |
| | 8 | 507 | 7.3313 | -0.0268 | 0.0075 | -0.0588 | 0.1335 | 0.0961 |
| | | 510 | 7.3312 | -0.0916 | 0.0075 | 0.0252 | -0.5300 | 0.0961 |
| 620 | 6 | 508 | 3.9280 | 0.0385 | -0.0474 | -0.0944 | -0.1352 | 0.4201 |
| | | 510 | 3.7736 | -0.0262 | 0.1448 | 0.4513 | -0.0664 | 0.4201 |
| | 8 | 508 | 6.2394 | -0.0030 | -0.0694 | 0.0898 | 0.0406 | 0.1124 |
| | | 510 | 6.4315 | -0.0681 | 0.0848 | 0.1762 | -0.3579 | 0.1124 |
| 621 | 6 | 508 | 11.0389 | 0.0462 | -0.0046 | 0.0441 | -0.1928 | 0.0222 |
| | | 511 | 11.0389 | 0.1110 | -0.0046 | -0.0078 | 0.6873 | 0.0222 |
| | 8 | 508 | 4.0899 | -0.0325 | -0.0805 | 0.0155 | 0.1023 | -0.3807 |
| | | 511 | 4.0523 | 0.0322 | 0.1631 | 0.4779 | 0.1007 | -0.3807 |
| 622 | 6 | 509 | 9.8600 | -0.0366 | 0.0048 | -0.0339 | 0.1494 | 0.0506 |
| | | 511 | 9.8600 | -0.1014 | 0.0048 | 0.0194 | -0.6234 | 0.0506 |
| | 8 | 509 | 8.6815 | -0.0534 | -0.0444 | 0.2270 | 0.2417 | -0.3729 |
| | | 511 | 8.6814 | -0.1182 | -0.0444 | -0.2704 | -0.7193 | -0.3729 |
| 623 | 6 | 509 | 4.2215 | -0.0357 | -0.0531 | -0.0393 | 0.1195 | -0.3972 |
| | | 512 | 4.0673 | 0.0290 | 0.1392 | 0.4429 | 0.0820 | -0.3972 |
| | 8 | 509 | 6.1818 | 0.0178 | -0.0341 | 0.1803 | -0.1041 | 0.2151 |
| | | 512 | 6.1818 | 0.0826 | -0.0341 | -0.2013 | 0.4586 | 0.2151 |
| 624 | 6 | 507 | 8.9012 | 0.0562 | 0.0520 | -0.2665 | -0.2519 | -0.3983 |
| | | 512 | 8.9012 | 0.1210 | 0.0520 | 0.3158 | 0.7407 | -0.3983 |
| | 8 | 507 | 2.5997 | -0.0292 | -0.0259 | 0.1383 | 0.0796 | 0.2121 |
| | | 512 | 2.5998 | 0.0356 | -0.0259 | -0.1522 | 0.1157 | 0.2121 |
| 625 | 6 | 507 | -1.7082 | 0.0416 | -0.0185 | -0.0017 | -0.0484 | 0.0372 |
| | | 501 | -1.7210 | 0.0096 | -0.0230 | -0.1267 | 0.1058 | 0.0372 |
| | 8 | 507 | -2.6689 | 0.0357 | -0.0449 | 0.1080 | -0.0485 | 0.0140 |
| | | 501 | -2.6818 | 0.0037 | -0.0495 | -0.1766 | 0.0702 | 0.0140 |
| 626 | 6 | 508 | -3.7270 | 0.0305 | -0.0408 | 0.0320 | -0.0616 | 0.0002 |
| | | 502 | -3.7398 | -0.0006 | -0.0501 | -0.2417 | 0.0285 | 0.0002 |
| | 8 | 508 | -3.0976 | 0.0251 | -0.0327 | 0.0723 | -0.0286 | -0.0077 |
| | | 502 | -3.1104 | -0.0059 | -0.0419 | -0.1523 | 0.0290 | -0.0077 |
| 627 | 6 | 508 | -4.4968 | -0.0392 | -0.0055 | -0.0301 | 0.0736 | 0.0327 |
| | | 503 | -4.5096 | -0.0266 | 0.0243 | 0.0266 | -0.1243 | 0.0327 |
| | 8 | 508 | -3.8404 | 0.0016 | -0.0129 | 0.0052 | 0.0334 | 0.0196 |
| | | 503 | -3.8533 | 0.0142 | 0.0170 | 0.0175 | 0.0811 | 0.0196 |
| 628 | 6 | 509 | -4.1653 | -0.0033 | -0.0357 | 0.0525 | 0.0106 | 0.0002 |
| | | 504 | -4.1781 | -0.0159 | -0.0059 | -0.0726 | -0.0473 | 0.0002 |
| | 8 | 509 | -1.3694 | 0.0173 | -0.0385 | 0.0616 | 0.0127 | -0.0193 |
| | | 504 | -1.3823 | 0.0048 | -0.0087 | -0.0805 | 0.0792 | -0.0193 |
| 629 | 6 | 509 | -3.8698 | -0.0242 | -0.0198 | 0.0077 | 0.0425 | 0.0216 |
| | | 505 | -3.8827 | 0.0068 | -0.0290 | -0.1394 | -0.0100 | 0.0216 |
| | 8 | 509 | -1.2900 | -0.0341 | -0.0020 | 0.0453 | 0.0663 | 0.0317 |
| | | 505 | -1.3028 | -0.0031 | -0.0112 | 0.0055 | -0.0457 | 0.0317 |
| 630 | 6 | 507 | -1.3548 | -0.0430 | 0.0122 | -0.0703 | 0.0466 | -0.0199 |
| | | 506 | -1.3677 | -0.0110 | 0.0076 | -0.0106 | -0.1161 | -0.0199 |
| | 8 | 507 | -2.2533 | -0.0187 | 0.0247 | -0.0334 | 0.0422 | 0.0038 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 506 | -2.2661 | 0.0134 | 0.0201 | 0.1017 | 0.0261 | 0.0038 |
| 1001 | 6 | 1 | -16.4285 | 0.0497 | 2.9547 | -0.5413 | -0.0283 | -0.0028 |
| | | 4 | -16.4278 | 0.0497 | 2.9547 | -0.2163 | -0.0228 | -0.0028 |
| | 8 | 1 | -15.5992 | 0.3685 | 2.7157 | -0.5334 | -0.0126 | -0.0758 |
| | | 4 | -15.5985 | 0.3685 | 2.7157 | -0.2346 | 0.0279 | -0.0758 |
| 1002 | 6 | 2 | -18.0405 | 3.0228 | -1.7183 | 0.3862 | -0.5225 | -0.0049 |
| | | 5 | -18.0399 | 3.0228 | -1.7154 | 0.1974 | -0.1900 | -0.0049 |
| | 8 | 2 | -14.8556 | 1.8673 | -1.6346 | 0.3028 | -0.4238 | -0.0758 |
| | | 5 | -14.8550 | 1.8702 | -1.6346 | 0.1230 | -0.2182 | -0.0758 |
| 1003 | 6 | 3 | -18.0473 | -3.0696 | -1.8729 | 0.3357 | 0.5848 | -0.0006 |
| | | 6 | -18.0467 | -3.0696 | -1.8700 | 0.1299 | 0.2472 | -0.0006 |
| | 8 | 3 | -16.4418 | -2.7579 | -1.1243 | 0.2749 | 0.5474 | -0.0744 |
| | | 6 | -16.4412 | -2.7551 | -1.1243 | 0.1513 | 0.2442 | -0.0744 |
| 1004 | 6 | 4 | -16.2718 | 0.0316 | 0.0812 | -0.1915 | -0.0325 | -0.0013 |
| | | 7 | -16.2579 | 0.0316 | 0.0813 | 0.0043 | 0.0437 | -0.0013 |
| | 8 | 4 | -15.1305 | 0.0254 | 0.0917 | -0.2127 | -0.0039 | -0.0732 |
| | | 7 | -15.1166 | 0.0255 | 0.0917 | 0.0083 | 0.0575 | -0.0732 |
| 1005 | 6 | 5 | -18.1252 | 0.0514 | -0.1261 | 0.1932 | -0.1640 | -0.0047 |
| | | 8 | -18.1114 | 0.0514 | -0.0634 | -0.0351 | -0.0402 | -0.0047 |
| | 8 | 5 | -14.0958 | 0.0163 | -0.0879 | 0.1373 | -0.1723 | -0.0740 |
| | | 8 | -14.0820 | 0.0790 | -0.0879 | -0.0745 | -0.0575 | -0.0740 |
| 1006 | 6 | 6 | -18.3101 | -0.1261 | -0.0799 | 0.1155 | 0.2342 | -0.0003 |
| | | 9 | -18.2963 | -0.1261 | -0.0173 | -0.0016 | -0.0699 | -0.0003 |
| | 8 | 6 | -15.9909 | -0.1408 | -0.0226 | 0.1097 | 0.2396 | -0.0737 |
| | | 9 | -15.9771 | -0.0781 | -0.0226 | 0.0552 | -0.0241 | -0.0737 |
| 1007 | 6 | 7 | -15.7722 | -0.0169 | 0.0042 | 0.0017 | 0.0425 | 0.0000 |
| | | 10 | -15.7583 | -0.0169 | 0.0043 | 0.0119 | 0.0019 | 0.0000 |
| | 8 | 7 | -16.0544 | -0.0190 | 0.0155 | -0.0002 | 0.0440 | -0.0682 |
| | | 10 | -16.0405 | -0.0190 | 0.0155 | 0.0372 | -0.0018 | -0.0682 |
| 1008 | 6 | 8 | -18.4064 | 0.0463 | -0.0467 | -0.0250 | -0.0454 | -0.0007 |
| | | 11 | -18.3926 | 0.0463 | 0.0160 | -0.0620 | 0.0661 | -0.0007 |
| | 8 | 8 | -15.0765 | 0.0233 | 0.0137 | -0.0588 | -0.0590 | -0.0681 |
| | | 11 | -15.0626 | 0.0860 | 0.0137 | -0.0258 | 0.0728 | -0.0681 |
| 1009 | 6 | 9 | -18.2102 | 0.0358 | -0.0175 | -0.0024 | -0.0642 | 0.0020 |
| | | 12 | -18.1964 | 0.0358 | 0.0452 | 0.0311 | 0.0220 | 0.0020 |
| | 8 | 9 | -17.4728 | -0.0627 | -0.0242 | 0.0480 | -0.0040 | -0.0683 |
| | | 12 | -17.4590 | 0.0000 | -0.0242 | -0.0103 | -0.0796 | -0.0683 |
| 1010 | 6 | 10 | -15.4608 | -0.0070 | -0.0106 | 0.0152 | 0.0026 | 0.0038 |
| | | 13 | -15.4469 | -0.0070 | -0.0106 | -0.0103 | -0.0142 | 0.0038 |
| | 8 | 10 | -14.9865 | 0.0001 | -0.0161 | 0.0407 | -0.0074 | -0.0630 |
| | | 13 | -14.9726 | 0.0001 | -0.0161 | 0.0020 | -0.0073 | -0.0630 |
| 1011 | 6 | 11 | -18.4255 | -0.0469 | 0.0213 | -0.0647 | 0.0666 | 0.0019 |
| | | 14 | -18.4116 | -0.0469 | 0.0839 | 0.0621 | -0.0463 | 0.0019 |
| | 8 | 11 | -13.6706 | -0.0789 | 0.0128 | -0.0226 | 0.0808 | -0.0625 |
| | | 14 | -13.6567 | -0.0162 | 0.0128 | 0.0082 | -0.0338 | -0.0625 |
| 1012 | 6 | 12 | -18.5236 | -0.0283 | -0.0660 | 0.0342 | 0.0210 | 0.0029 |
| | | 15 | -18.5098 | -0.0283 | -0.0033 | -0.0492 | -0.0473 | 0.0029 |
| | 8 | 12 | -16.4823 | 0.0227 | 0.0078 | -0.0172 | -0.0798 | -0.0626 |
| | | 15 | -16.4684 | 0.0853 | 0.0078 | 0.0017 | 0.0503 | -0.0626 |
| 1013 | 6 | 13 | -15.1976 | -0.0041 | -0.0033 | -0.0060 | -0.0095 | 0.0003 |
| | | 16 | -15.1836 | -0.0041 | -0.0033 | -0.0140 | -0.0192 | 0.0003 |
| | 8 | 13 | -15.9165 | 0.0008 | -0.0193 | 0.0048 | -0.0092 | -0.0619 |
| | | 16 | -15.9025 | 0.0008 | -0.0193 | -0.0417 | -0.0073 | -0.0619 |
| 1014 | 6 | 14 | -18.5678 | 0.0395 | -0.0645 | 0.0575 | -0.0457 | 0.0018 |
| | | 17 | -18.5540 | 0.0395 | -0.0018 | -0.0224 | 0.0496 | 0.0018 |
| | 8 | 14 | -14.6687 | -0.0094 | 0.0022 | 0.0089 | -0.0305 | -0.0622 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 17 | -14.6549 | 0.0533 | 0.0022 | 0.0142 | 0.0224 | -0.0622 |
| 1015 | 6 | 15 | -18.4598 | 0.0517 | 0.0009 | -0.0471 | -0.0532 | 0.0021 |
| | | 18 | -18.4459 | 0.0517 | 0.0636 | 0.0307 | 0.0713 | 0.0021 |
| | 8 | 15 | -17.6376 | -0.0547 | 0.0080 | -0.0016 | 0.0499 | -0.0615 |
| | | 18 | -17.6237 | 0.0080 | 0.0080 | 0.0177 | -0.0063 | -0.0615 |
| 1016 | 6 | 16 | -15.1487 | 0.0056 | -0.0164 | -0.0101 | -0.0215 | -0.0009 |
| | | 19 | -15.1348 | 0.0056 | -0.0164 | -0.0496 | -0.0079 | -0.0009 |
| | 8 | 16 | -14.8620 | -0.0185 | 0.0149 | -0.0379 | -0.0139 | -0.0649 |
| | | 19 | -14.8480 | -0.0185 | 0.0149 | -0.0021 | -0.0585 | -0.0649 |
| 1017 | 6 | 17 | -18.5989 | -0.0483 | 0.0014 | -0.0224 | 0.0534 | -0.0016 |
| | | 20 | -18.5850 | -0.0483 | 0.0641 | 0.0566 | -0.0631 | -0.0016 |
| | 8 | 17 | -13.6518 | -0.0572 | 0.0018 | 0.0179 | 0.0306 | -0.0650 |
| | | 20 | -13.6380 | 0.0055 | 0.0018 | 0.0223 | -0.0317 | -0.0650 |
| 1018 | 6 | 18 | -18.5880 | -0.0237 | -0.0610 | 0.0278 | 0.0696 | -0.0024 |
| | | 21 | -18.5742 | -0.0237 | 0.0016 | -0.0437 | 0.0125 | -0.0024 |
| | 8 | 18 | -16.6476 | -0.0036 | -0.0184 | 0.0102 | -0.0069 | -0.0649 |
| | | 21 | -16.6338 | 0.0591 | -0.0184 | -0.0340 | 0.0600 | -0.0649 |
| 1019 | 6 | 19 | -15.0552 | 0.0287 | 0.0281 | -0.0505 | -0.0123 | -0.0019 |
| | | 22 | -15.0412 | 0.0287 | 0.0282 | 0.0173 | 0.0569 | -0.0019 |
| | 8 | 19 | -15.8188 | 0.0022 | 0.0430 | -0.0095 | -0.0700 | -0.0698 |
| | | 22 | -15.8048 | 0.0022 | 0.0430 | 0.0941 | -0.0647 | -0.0698 |
| 1020 | 6 | 20 | -18.4746 | 0.0438 | -0.0912 | 0.0578 | -0.0616 | -0.0007 |
| | | 23 | -18.4608 | 0.0438 | -0.0285 | -0.0865 | 0.0439 | -0.0007 |
| | 8 | 20 | -14.6930 | 0.0144 | -0.0113 | 0.0351 | -0.0308 | -0.0682 |
| | | 23 | -14.6791 | 0.0771 | -0.0112 | 0.0080 | 0.0795 | -0.0682 |
| 1021 | 6 | 21 | -18.4538 | -0.0379 | 0.0055 | -0.0457 | 0.0174 | -0.0030 |
| | | 24 | -18.4400 | -0.0379 | 0.0682 | 0.0432 | -0.0741 | -0.0030 |
| | 8 | 21 | -17.4450 | -0.0962 | -0.0167 | -0.0403 | 0.0686 | -0.0689 |
| | | 24 | -17.4312 | -0.0335 | -0.0167 | -0.0804 | -0.0877 | -0.0689 |
| 1022 | 6 | 22 | -15.1582 | -0.0323 | 0.0743 | 0.0100 | 0.0601 | 0.0047 |
| | | 25 | -15.1546 | -0.0323 | 0.0743 | 0.0553 | 0.0404 | 0.0047 |
| | 8 | 22 | -15.2744 | 0.3825 | -0.1527 | 0.1019 | -0.0950 | -0.0701 |
| | | 25 | -15.2709 | 0.3825 | -0.1527 | 0.0087 | 0.1383 | -0.0701 |
| 1023 | 6 | 23 | -18.5208 | 0.0083 | 0.0409 | -0.0886 | 0.0412 | 0.0042 |
| | | 26 | -18.5173 | 0.0083 | 0.0568 | -0.0588 | 0.0463 | 0.0042 |
| | 8 | 23 | -14.3271 | -0.1333 | -0.2345 | 0.0314 | 0.0865 | -0.0693 |
| | | 26 | -14.3236 | -0.1174 | -0.2345 | -0.1117 | 0.0100 | -0.0693 |
| 1024 | 6 | 24 | -18.4895 | 0.0280 | 0.0321 | 0.0407 | -0.0768 | 0.0041 |
| | | 27 | -18.4860 | 0.0280 | 0.0480 | 0.0652 | -0.0597 | 0.0041 |
| | 8 | 24 | -16.9473 | 0.0112 | 0.3441 | -0.1089 | -0.0833 | -0.0704 |
| | | 27 | -16.9438 | 0.0271 | 0.3441 | 0.1010 | -0.0716 | -0.0704 |
| 1025 | 6 | 25 | -15.1542 | -0.0332 | 0.0735 | 0.0553 | 0.0404 | 0.0047 |
| | | 28 | -15.1535 | -0.0332 | 0.0735 | 0.0641 | 0.0364 | 0.0047 |
| | 8 | 25 | -15.2708 | 0.3811 | -0.1532 | 0.0087 | 0.1383 | -0.0701 |
| | | 28 | -15.2701 | 0.3811 | -0.1532 | -0.0097 | 0.1841 | -0.0701 |
| 1026 | 6 | 26 | -18.5175 | 0.0073 | 0.0585 | -0.0588 | 0.0463 | 0.0042 |
| | | 29 | -18.5168 | 0.0073 | 0.0616 | -0.0516 | 0.0472 | 0.0042 |
| | 8 | 26 | -14.3234 | -0.1179 | -0.2332 | -0.1117 | 0.0100 | -0.0693 |
| | | 29 | -14.3227 | -0.1148 | -0.2332 | -0.1397 | -0.0039 | -0.0693 |
| 1027 | 6 | 27 | -18.4860 | 0.0294 | 0.0467 | 0.0652 | -0.0597 | 0.0041 |
| | | 30 | -18.4853 | 0.0294 | 0.0498 | 0.0710 | -0.0562 | 0.0041 |
| | 8 | 27 | -16.9438 | 0.0288 | 0.3432 | 0.1010 | -0.0716 | -0.0704 |
| | | 30 | -16.9431 | 0.0319 | 0.3432 | 0.1422 | -0.0680 | -0.0704 |
| 1028 | 6 | 28 | -15.2324 | -0.0288 | -0.0467 | 0.0652 | 0.0377 | 0.0096 |
| | | 31 | -15.2185 | -0.0288 | -0.0467 | -0.0474 | -0.0318 | 0.0096 |
| | 8 | 28 | -14.6641 | -0.0552 | -0.0280 | 0.0052 | 0.1506 | -0.0525 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 31 | -14.6501 | -0.0552 | -0.0280 | -0.0624 | 0.0175 | -0.0525 |
| 1029 | 6 | 29 | -18.5061 | -0.0463 | 0.0216 | -0.0574 | 0.0541 | 0.0083 |
| | | 32 | -18.4923 | -0.0463 | 0.0843 | 0.0702 | -0.0575 | 0.0083 |
| | 8 | 29 | -14.0187 | -0.0694 | 0.0537 | -0.1173 | 0.0138 | -0.0522 |
| | | 32 | -14.0048 | -0.0067 | 0.0537 | 0.0122 | -0.0779 | -0.0522 |
| 1030 | 6 | 30 | -18.3297 | 0.0360 | -0.0735 | 0.0662 | -0.0633 | 0.0097 |
| | | 33 | -18.3159 | 0.0360 | -0.0108 | -0.0354 | 0.0234 | 0.0097 |
| | 8 | 30 | -16.3736 | 0.0274 | -0.0262 | 0.1071 | -0.0686 | -0.0526 |
| | | 33 | -16.3597 | 0.0901 | -0.0262 | 0.0441 | 0.0730 | -0.0526 |
| 1031 | 6 | 31 | -15.4609 | 0.0046 | 0.0130 | -0.0437 | -0.0258 | 0.0075 |
| | | 34 | -15.4470 | 0.0046 | 0.0130 | -0.0125 | -0.0148 | 0.0075 |
| | 8 | 31 | -15.7073 | -0.0194 | 0.0351 | -0.0635 | 0.0150 | -0.0443 |
| | | 34 | -15.6934 | -0.0194 | 0.0351 | 0.0208 | -0.0316 | -0.0443 |
| 1032 | 6 | 32 | -18.1993 | 0.0434 | -0.0685 | 0.0626 | -0.0557 | 0.0081 |
| | | 35 | -18.1855 | 0.0434 | -0.0061 | -0.0269 | 0.0486 | 0.0081 |
| | 8 | 32 | -15.1441 | 0.0280 | -0.0040 | 0.0155 | -0.0776 | -0.0447 |
| | | 35 | -15.1302 | 0.0904 | -0.0040 | 0.0058 | 0.0645 | -0.0447 |
| 1033 | 6 | 33 | -18.3029 | 0.0200 | -0.0084 | -0.0328 | 0.0139 | 0.0092 |
| | | 36 | -18.2891 | 0.0200 | 0.0541 | 0.0221 | 0.0617 | 0.0092 |
| | 8 | 33 | -16.8363 | -0.0779 | -0.0286 | 0.0421 | 0.0722 | -0.0449 |
| | | 36 | -16.8224 | -0.0155 | -0.0286 | -0.0266 | -0.0399 | -0.0449 |
| 1034 | 6 | 34 | -15.8601 | 0.0100 | 0.0061 | -0.0136 | -0.0144 | 0.0060 |
| | | 37 | -15.8462 | 0.0100 | 0.0061 | 0.0012 | 0.0098 | 0.0060 |
| | 8 | 34 | -14.6297 | 0.0092 | -0.0069 | 0.0225 | -0.0352 | -0.0416 |
| | | 37 | -14.6158 | 0.0092 | -0.0069 | 0.0057 | -0.0131 | -0.0416 |
| 1035 | 6 | 35 | -18.2551 | -0.0388 | -0.0025 | -0.0275 | 0.0488 | 0.0051 |
| | | 38 | -18.2413 | -0.0388 | 0.0602 | 0.0421 | -0.0447 | 0.0051 |
| | 8 | 35 | -14.8748 | -0.0678 | -0.0082 | 0.0080 | 0.0652 | -0.0416 |
| | | 38 | -14.8609 | -0.0052 | -0.0082 | -0.0118 | -0.0228 | -0.0416 |
| 1036 | 6 | 36 | -17.9936 | -0.0465 | -0.0565 | 0.0209 | 0.0611 | 0.0047 |
| | | 39 | -17.9797 | -0.0465 | 0.0062 | -0.0397 | -0.0510 | 0.0047 |
| | 8 | 36 | -15.8383 | 0.0058 | 0.0096 | -0.0308 | -0.0404 | -0.0418 |
| | | 39 | -15.8244 | 0.0685 | 0.0096 | -0.0076 | 0.0491 | -0.0418 |
| 1037 | 6 | 37 | -16.2376 | -0.0002 | -0.0066 | 0.0012 | 0.0086 | 0.0030 |
| | | 40 | -16.2237 | -0.0002 | -0.0065 | -0.0146 | 0.0082 | 0.0030 |
| | 8 | 37 | -15.5640 | 0.0142 | -0.0045 | 0.0047 | -0.0185 | -0.0401 |
| | | 40 | -15.5500 | 0.0142 | -0.0045 | -0.0061 | 0.0157 | -0.0401 |
| 1038 | 6 | 38 | -17.7136 | 0.0338 | -0.0622 | 0.0380 | -0.0420 | 0.0047 |
| | | 41 | -17.6998 | 0.0338 | 0.0005 | -0.0364 | 0.0394 | 0.0047 |
| | 8 | 38 | -15.8946 | -0.0113 | 0.0019 | -0.0076 | -0.0206 | -0.0398 |
| | | 41 | -15.8807 | 0.0514 | 0.0019 | -0.0030 | 0.0277 | -0.0398 |
| 1039 | 6 | 39 | -17.9042 | 0.0361 | 0.0089 | -0.0405 | -0.0517 | 0.0033 |
| | | 42 | -17.8903 | 0.0361 | 0.0716 | 0.0565 | 0.0352 | 0.0033 |
| | 8 | 39 | -15.8702 | -0.0639 | 0.0101 | -0.0113 | 0.0468 | -0.0403 |
| | | 42 | -15.8564 | -0.0012 | 0.0101 | 0.0131 | -0.0316 | -0.0403 |
| 1040 | 6 | 40 | -16.8318 | -0.0089 | 0.0087 | -0.0161 | 0.0098 | 0.0033 |
| | | 43 | -16.8179 | -0.0089 | 0.0087 | 0.0049 | -0.0117 | 0.0033 |
| | 8 | 40 | -14.4908 | 0.0084 | 0.0051 | 0.0005 | 0.0078 | -0.0377 |
| | | 43 | -14.4769 | 0.0084 | 0.0051 | 0.0127 | 0.0279 | -0.0377 |
| 1041 | 6 | 41 | -17.7582 | -0.0334 | 0.0039 | -0.0365 | 0.0407 | 0.0041 |
| | | 44 | -17.7443 | -0.0334 | 0.0666 | 0.0485 | -0.0398 | 0.0041 |
| | 8 | 41 | -15.9908 | -0.0494 | -0.0003 | 0.0003 | 0.0288 | -0.0379 |
| | | 44 | -15.9769 | 0.0133 | -0.0003 | -0.0003 | -0.0146 | -0.0379 |
| 1042 | 6 | 42 | -17.3733 | -0.0386 | -0.0602 | 0.0513 | 0.0319 | 0.0019 |
| | | 45 | -17.3594 | -0.0386 | 0.0025 | -0.0183 | -0.0611 | 0.0019 |
| | 8 | 42 | -14.8979 | -0.0033 | 0.0035 | 0.0038 | -0.0322 | -0.0376 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 45 | -14.8840 | 0.0594 | 0.0035 | 0.0121 | 0.0353 | -0.0376 |
| 1043 | 6 | 43 | -17.4327 | -0.0100 | 0.0080 | 0.0031 | -0.0105 | -0.0005 |
| | | 46 | -17.4188 | -0.0100 | 0.0080 | 0.0225 | -0.0346 | -0.0005 |
| | 8 | 43 | -15.4567 | -0.0100 | -0.0271 | 0.0129 | 0.0259 | -0.0355 |
| | | 46 | -15.4427 | -0.0100 | -0.0271 | -0.0524 | 0.0019 | -0.0355 |
| 1044 | 6 | 44 | -17.0407 | 0.0388 | -0.0565 | 0.0428 | -0.0373 | 0.0034 |
| | | 47 | -17.0269 | 0.0388 | 0.0061 | -0.0180 | 0.0562 | 0.0034 |
| | 8 | 44 | -17.0357 | 0.0123 | 0.0001 | 0.0039 | -0.0152 | -0.0372 |
| | | 47 | -17.0218 | 0.0750 | 0.0001 | 0.0040 | 0.0899 | -0.0372 |
| 1045 | 6 | 45 | -17.3152 | 0.0622 | 0.0028 | -0.0174 | -0.0662 | 0.0014 |
| | | 48 | -17.3014 | 0.0622 | 0.0654 | 0.0648 | 0.0838 | 0.0014 |
| | 8 | 45 | -14.6221 | -0.0448 | 0.0017 | 0.0094 | 0.0309 | -0.0362 |
| | | 48 | -14.6082 | 0.0179 | 0.0017 | 0.0135 | -0.0016 | -0.0362 |
| 1046 | 6 | 46 | -18.2100 | 0.0269 | -0.0329 | 0.0243 | -0.0369 | -0.0008 |
| | | 49 | -18.1960 | 0.0269 | -0.0329 | -0.0551 | 0.0279 | -0.0008 |
| | 8 | 46 | -14.2833 | -0.0218 | 0.0276 | -0.0491 | -0.0036 | -0.0355 |
| | | 49 | -14.2694 | -0.0218 | 0.0276 | 0.0174 | -0.0560 | -0.0355 |
| 1047 | 6 | 47 | -17.0588 | -0.0593 | 0.0091 | -0.0199 | 0.0609 | -0.0002 |
| | | 50 | -17.0450 | -0.0593 | 0.0717 | 0.0775 | -0.0819 | -0.0002 |
| | 8 | 47 | -17.4712 | -0.1061 | -0.0029 | 0.0064 | 0.0950 | -0.0375 |
| | | 50 | -17.4573 | -0.0435 | -0.0029 | -0.0006 | -0.0853 | -0.0375 |
| 1048 | 6 | 48 | -16.5517 | -0.0308 | -0.0919 | 0.0609 | 0.0816 | -0.0028 |
| | | 51 | -16.5378 | -0.0308 | -0.0293 | -0.0852 | 0.0074 | -0.0028 |
| | 8 | 48 | -13.5808 | 0.0096 | -0.0158 | 0.0074 | -0.0052 | -0.0387 |
| | | 51 | -13.5669 | 0.0723 | -0.0158 | -0.0306 | 0.0936 | -0.0387 |
| 1049 | 6 | 49 | -19.0625 | 0.0282 | -0.0174 | -0.0609 | 0.0198 | -0.0007 |
| | | 52 | -19.0485 | 0.0282 | -0.0174 | -0.1029 | 0.0877 | -0.0007 |
| | 8 | 49 | -15.3010 | -0.0123 | 0.0351 | 0.0078 | -0.0652 | -0.0397 |
| | | 52 | -15.2871 | -0.0123 | 0.0351 | 0.0923 | -0.0949 | -0.0397 |
| 1050 | 6 | 50 | -15.9859 | 0.0555 | -0.1239 | 0.0717 | -0.0764 | 0.0029 |
| | | 53 | -15.9720 | 0.0555 | -0.0612 | -0.1513 | 0.0575 | 0.0029 |
| | 8 | 50 | -18.5977 | -0.0300 | -0.0138 | 0.0103 | -0.0843 | -0.0349 |
| | | 53 | -18.5838 | 0.0326 | -0.0138 | -0.0230 | -0.0811 | -0.0349 |
| 1051 | 6 | 51 | -16.4215 | -0.0468 | -0.0223 | -0.0859 | 0.0132 | -0.0068 |
| | | 54 | -16.4076 | -0.0468 | 0.0403 | -0.0642 | -0.0996 | -0.0068 |
| | 8 | 51 | -12.8311 | -0.1427 | -0.0164 | -0.0340 | 0.0897 | -0.0400 |
| | | 54 | -12.8172 | -0.0800 | -0.0164 | -0.0736 | -0.1786 | -0.0400 |
| 1052 | 6 | 52 | -19.6758 | -0.1236 | 0.5511 | -0.1460 | 0.0977 | 0.0069 |
| | | 55 | -19.6723 | -0.1236 | 0.5511 | 0.1902 | 0.0223 | 0.0069 |
| | 8 | 52 | -14.7116 | 0.4818 | -0.1903 | 0.1056 | -0.1213 | -0.0334 |
| | | 55 | -14.7080 | 0.4818 | -0.1903 | -0.0105 | 0.1726 | -0.0334 |
| 1053 | 6 | 53 | -16.0226 | -0.0438 | 0.2783 | -0.1643 | 0.0610 | 0.0079 |
| | | 56 | -16.0190 | -0.0438 | 0.2942 | 0.0103 | 0.0343 | 0.0079 |
| | 8 | 53 | -19.0459 | 0.4875 | -0.1710 | -0.0028 | -0.1202 | -0.0305 |
| | | 56 | -19.0424 | 0.5034 | -0.1710 | -0.1072 | 0.1821 | -0.0305 |
| 1054 | 6 | 54 | -15.9584 | 0.1674 | 0.4240 | -0.0903 | -0.1172 | -0.0019 |
| | | 57 | -15.9549 | 0.1674 | 0.4399 | 0.1732 | -0.0151 | -0.0019 |
| | 8 | 54 | -12.2796 | 0.3813 | 0.3183 | -0.1013 | -0.2010 | -0.0404 |
| | | 57 | -12.2761 | 0.3972 | 0.3183 | 0.0928 | 0.0365 | -0.0404 |
| 1055 | 6 | 55 | -19.6721 | -0.1246 | 0.5486 | 0.1902 | 0.0223 | 0.0069 |
| | | 58 | -19.6714 | -0.1246 | 0.5486 | 0.2561 | 0.0074 | 0.0069 |
| | 8 | 55 | -14.7078 | 0.4800 | -0.1910 | -0.0104 | 0.1726 | -0.0334 |
| | | 58 | -14.7071 | 0.4800 | -0.1910 | -0.0333 | 0.2302 | -0.0334 |
| 1056 | 6 | 56 | -16.0187 | -0.0446 | 0.2945 | 0.0103 | 0.0343 | 0.0079 |
| | | 59 | -16.0181 | -0.0446 | 0.2976 | 0.0459 | 0.0289 | 0.0079 |
| | 8 | 56 | -19.0420 | 0.5013 | -0.1701 | -0.1070 | 0.1820 | -0.0305 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 59 | -19.0413 | 0.5044 | -0.1701 | -0.1274 | 0.2424 | -0.0305 |
| 1057 | 6 | 57 | -15.9547 | 0.1682 | 0.4377 | 0.1732 | -0.0151 | -0.0019 |
| | | 60 | -15.9540 | 0.1682 | 0.4408 | 0.2259 | 0.0051 | -0.0019 |
| | 8 | 57 | -12.2766 | 0.3976 | 0.3173 | 0.0929 | 0.0365 | -0.0404 |
| | | 60 | -12.2759 | 0.4007 | 0.3173 | 0.1310 | 0.0844 | -0.0404 |
| 1058 | 6 | 58 | -20.2518 | -0.0343 | -0.0961 | 0.2209 | 0.0148 | 0.0107 |
| | | 61 | -20.2378 | -0.0343 | -0.0961 | -0.0108 | -0.0679 | 0.0107 |
| | 8 | 58 | -14.0484 | -0.0592 | -0.0234 | -0.0123 | 0.1985 | -0.0217 |
| | | 61 | -14.0344 | -0.0592 | -0.0234 | -0.0688 | 0.0558 | -0.0217 |
| 1059 | 6 | 59 | -16.0059 | -0.0352 | -0.0050 | 0.0283 | 0.0414 | 0.0163 |
| | | 62 | -15.9920 | -0.0352 | 0.0577 | 0.0918 | -0.0435 | 0.0163 |
| | 8 | 59 | -19.5417 | -0.1190 | 0.0670 | -0.1091 | 0.2145 | -0.0180 |
| | | 62 | -19.5278 | -0.0563 | 0.0670 | 0.0524 | 0.0032 | -0.0180 |
| 1060 | 6 | 60 | -15.3030 | 0.0147 | -0.0984 | 0.1971 | -0.0173 | -0.0004 |
| | | 63 | -15.2892 | 0.0147 | -0.0357 | 0.0356 | 0.0182 | -0.0004 |
| | 8 | 60 | -11.6651 | -0.0171 | -0.0253 | 0.0969 | 0.0562 | -0.0275 |
| | | 63 | -11.6512 | 0.0455 | -0.0253 | 0.0358 | 0.0904 | -0.0275 |
| 1061 | 6 | 61 | -21.4145 | 0.0250 | -0.0028 | -0.0115 | -0.0653 | 0.0061 |
| | | 64 | -21.4006 | 0.0250 | -0.0028 | -0.0182 | -0.0053 | 0.0061 |
| | 8 | 61 | -15.1416 | -0.0275 | 0.0438 | -0.0736 | 0.0548 | -0.0142 |
| | | 64 | -15.1277 | -0.0275 | 0.0438 | 0.0316 | -0.0112 | -0.0142 |
| 1062 | 6 | 62 | -14.7680 | 0.0319 | -0.0621 | 0.0765 | -0.0378 | 0.0171 |
| | | 65 | -14.7542 | 0.0319 | 0.0003 | 0.0023 | 0.0388 | 0.0171 |
| | 8 | 62 | -20.7491 | -0.0159 | -0.0170 | 0.0536 | 0.0044 | -0.0145 |
| | | 65 | -20.7353 | 0.0465 | -0.0170 | 0.0127 | 0.0411 | -0.0145 |
| 1063 | 6 | 63 | -15.2737 | 0.0111 | -0.0404 | 0.0388 | 0.0114 | -0.0006 |
| | | 66 | -15.2599 | 0.0111 | 0.0220 | 0.0166 | 0.0379 | -0.0006 |
| | 8 | 63 | -10.6003 | -0.0688 | -0.0282 | 0.0368 | 0.0774 | -0.0253 |
| | | 66 | -10.5865 | -0.0063 | -0.0282 | -0.0309 | -0.0127 | -0.0253 |
| 1064 | 6 | 64 | -22.6851 | 0.0131 | 0.0221 | -0.0219 | -0.0056 | 0.0043 |
| | | 67 | -22.6712 | 0.0131 | 0.0221 | 0.0313 | 0.0260 | 0.0043 |
| | 8 | 64 | -14.0139 | 0.0079 | -0.0139 | 0.0327 | -0.0140 | -0.0115 |
| | | 67 | -13.9999 | 0.0079 | -0.0139 | -0.0008 | 0.0050 | -0.0115 |
| 1065 | 6 | 65 | -14.8083 | -0.0354 | 0.0005 | -0.0007 | 0.0399 | 0.0175 |
| | | 68 | -14.7945 | -0.0354 | 0.0632 | 0.0761 | -0.0455 | 0.0175 |
| | 8 | 65 | -21.9168 | -0.0480 | -0.0196 | 0.0135 | 0.0385 | -0.0143 |
| | | 68 | -21.9029 | 0.0147 | -0.0196 | -0.0338 | -0.0016 | -0.0143 |
| 1066 | 6 | 66 | -14.1000 | -0.0268 | -0.0484 | 0.0139 | 0.0365 | -0.0100 |
| | | 69 | -14.0862 | -0.0268 | 0.0143 | -0.0271 | -0.0282 | -0.0100 |
| | 8 | 66 | -9.5564 | 0.0130 | 0.0102 | -0.0345 | -0.0158 | -0.0255 |
| | | 69 | -9.5426 | 0.0757 | 0.0102 | -0.0099 | 0.0910 | -0.0255 |
| 1067 | 6 | 67 | -23.9035 | -0.0070 | -0.0019 | 0.0254 | 0.0234 | -0.0009 |
| | | 70 | -23.8896 | -0.0070 | -0.0019 | 0.0208 | 0.0065 | -0.0009 |
| | 8 | 67 | -14.9836 | 0.0156 | 0.0021 | -0.0037 | 0.0018 | -0.0106 |
| | | 70 | -14.9697 | 0.0156 | 0.0021 | 0.0015 | 0.0394 | -0.0106 |
| 1068 | 6 | 68 | -13.4144 | 0.0382 | -0.0692 | 0.0694 | -0.0410 | 0.0232 |
| | | 71 | -13.4006 | 0.0382 | -0.0065 | -0.0217 | 0.0510 | 0.0232 |
| | 8 | 68 | -22.9885 | -0.0042 | 0.0080 | -0.0288 | -0.0020 | -0.0089 |
| | | 71 | -22.9747 | 0.0585 | 0.0080 | -0.0096 | 0.0634 | -0.0089 |
| 1069 | 6 | 69 | -14.0126 | 0.0216 | 0.0146 | -0.0299 | -0.0288 | -0.0173 |
| | | 72 | -13.9987 | 0.0216 | 0.0773 | 0.0808 | 0.0231 | -0.0173 |
| | 8 | 69 | -8.1825 | -0.0735 | 0.0073 | -0.0124 | 0.0823 | -0.0303 |
| | | 72 | -8.1686 | -0.0108 | 0.0073 | 0.0053 | -0.0192 | -0.0303 |
| 1070 | 6 | 70 | -25.3591 | -0.0113 | 0.0078 | 0.0131 | 0.0093 | 0.0024 |
| | | 73 | -25.3452 | -0.0113 | 0.0078 | 0.0319 | -0.0178 | 0.0024 |
| | 8 | 70 | -13.8579 | 0.0177 | -0.0016 | 0.0103 | 0.0324 | -0.0041 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 73 | -13.8439 | 0.0177 | -0.0016 | 0.0065 | 0.0750 | -0.0041 |
| 1071 | 6 | 71 | -13.4885 | -0.0406 | -0.0051 | -0.0230 | 0.0523 | 0.0301 |
| | | 74 | -13.4747 | -0.0406 | 0.0576 | 0.0402 | -0.0456 | 0.0301 |
| | 8 | 71 | -24.5006 | -0.0430 | 0.0096 | -0.0104 | 0.0545 | -0.0079 |
| | | 74 | -24.4868 | 0.0197 | 0.0096 | 0.0127 | 0.0264 | -0.0079 |
| 1072 | 6 | 72 | -12.6454 | -0.0398 | -0.0440 | 0.0696 | 0.0167 | -0.0298 |
| | | 75 | -12.6316 | -0.0398 | 0.0186 | 0.0390 | -0.0793 | -0.0298 |
| | 8 | 72 | -7.1975 | -0.0052 | 0.0162 | -0.0040 | -0.0209 | -0.0340 |
| | | 75 | -7.1837 | 0.0575 | 0.0162 | 0.0350 | 0.0420 | -0.0340 |
| 1073 | 6 | 73 | -26.7731 | -0.0109 | 0.0168 | 0.0249 | -0.0146 | -0.0091 |
| | | 76 | -26.7592 | -0.0109 | 0.0168 | 0.0654 | -0.0409 | -0.0091 |
| | 8 | 73 | -14.8253 | -0.0114 | -0.0349 | 0.0053 | 0.0792 | -0.0023 |
| | | 76 | -14.8114 | -0.0114 | -0.0349 | -0.0789 | 0.0517 | -0.0023 |
| 1074 | 6 | 74 | -11.9435 | 0.0020 | -0.0238 | 0.0260 | -0.0392 | 0.0446 |
| | | 77 | -11.9297 | 0.0020 | 0.0389 | 0.0441 | -0.0343 | 0.0446 |
| | 8 | 74 | -25.5761 | 0.0156 | -0.0038 | 0.0150 | 0.0245 | -0.0023 |
| | | 77 | -25.5623 | 0.0783 | -0.0038 | 0.0059 | 0.1377 | -0.0023 |
| 1075 | 6 | 75 | -12.5681 | 0.0903 | 0.0135 | 0.0389 | -0.0889 | -0.0414 |
| | | 78 | -12.5543 | 0.0903 | 0.0762 | 0.1469 | 0.1287 | -0.0414 |
| | 8 | 75 | -5.5396 | -0.0046 | 0.0104 | 0.0346 | 0.0256 | -0.0449 |
| | | 78 | -5.5258 | 0.0581 | 0.0105 | 0.0598 | 0.0899 | -0.0449 |
| 1076 | 6 | 76 | -28.3821 | 0.0289 | -0.0411 | 0.0647 | -0.0421 | -0.0083 |
| | | 79 | -28.3681 | 0.0289 | -0.0410 | -0.0343 | 0.0275 | -0.0083 |
| | 8 | 76 | -13.6629 | -0.0566 | 0.0461 | -0.0778 | 0.0501 | 0.0043 |
| | | 79 | -13.6489 | -0.0566 | 0.0461 | 0.0333 | -0.0863 | 0.0043 |
| 1077 | 6 | 77 | -11.8836 | 0.0177 | 0.0424 | 0.0314 | -0.0368 | 0.0473 |
| | | 80 | -11.8698 | 0.0177 | 0.1051 | 0.2092 | 0.0059 | 0.0473 |
| | 8 | 77 | -27.3653 | -0.1207 | 0.0021 | -0.0007 | 0.1384 | -0.0100 |
| | | 80 | -27.3515 | -0.0580 | 0.0021 | 0.0045 | -0.0768 | -0.0100 |
| 1078 | 6 | 78 | -10.9491 | -0.0312 | -0.1580 | 0.1458 | 0.1254 | -0.0749 |
| | | 81 | -10.9353 | -0.0312 | -0.0953 | -0.1594 | 0.0501 | -0.0749 |
| | 8 | 78 | -4.4418 | 0.0174 | -0.0770 | 0.0619 | 0.0844 | -0.0699 |
| | | 81 | -4.4280 | 0.0801 | -0.0770 | -0.1236 | 0.2019 | -0.0699 |
| 1079 | 6 | 79 | -30.1677 | -0.0103 | -0.0508 | -0.0540 | 0.0167 | -0.0239 |
| | | 82 | -30.1537 | -0.0103 | -0.0508 | -0.1765 | -0.0082 | -0.0239 |
| | 8 | 79 | -14.7644 | -0.0373 | 0.0770 | 0.0066 | -0.0954 | -0.0084 |
| | | 82 | -14.7505 | -0.0373 | 0.0770 | 0.1922 | -0.1853 | -0.0084 |
| 1080 | 6 | 80 | -9.8992 | 0.2155 | -0.2676 | 0.2060 | 0.0078 | 0.0704 |
| | | 83 | -9.8854 | 0.2156 | -0.2049 | -0.3633 | 0.5273 | 0.0704 |
| | 8 | 80 | -28.5558 | -0.0462 | -0.0114 | 0.0191 | -0.0772 | 0.0017 |
| | | 83 | -28.5420 | 0.0165 | -0.0113 | -0.0083 | -0.1131 | 0.0017 |
| 1081 | 6 | 81 | -10.8975 | -0.1765 | -0.0925 | -0.1652 | 0.0746 | -0.1164 |
| | | 84 | -10.8837 | -0.1765 | -0.0298 | -0.3125 | -0.3507 | -0.1164 |
| | 8 | 81 | -2.1292 | -0.4261 | -0.0978 | -0.1236 | 0.2001 | -0.1092 |
| | | 84 | -2.1154 | -0.3634 | -0.0978 | -0.3593 | -0.7513 | -0.1092 |
| 1082 | 6 | 82 | -31.3363 | 0.2345 | 1.8574 | -0.2651 | -0.0092 | -0.0314 |
| | | 85 | -31.3327 | 0.2345 | 1.8574 | 0.8679 | 0.1338 | -0.0314 |
| | 8 | 82 | -14.1496 | 0.9073 | 1.4291 | 0.2075 | -0.2259 | 0.0069 |
| | | 85 | -14.1460 | 0.9073 | 1.4291 | 1.0792 | 0.3276 | 0.0069 |
| 1083 | 6 | 83 | -9.9144 | 1.3292 | 0.4647 | -0.3933 | 0.6047 | 0.1408 |
| | | 86 | -9.9109 | 1.3292 | 0.4805 | -0.1051 | 1.4155 | 0.1408 |
| | 8 | 83 | -29.9147 | 1.6342 | -0.5447 | 0.0312 | -0.1905 | 0.0003 |
| | | 86 | -29.9112 | 1.6500 | -0.5447 | -0.3011 | 0.8112 | 0.0003 |
| 1084 | 6 | 84 | -9.9264 | -1.5700 | -0.0491 | -0.3994 | -0.3720 | -0.2196 |
| | | 87 | -9.9229 | -1.5700 | -0.0332 | -0.4245 | -1.3297 | -0.2196 |
| | 8 | 84 | -1.4922 | -0.1935 | -0.9364 | -0.4481 | -0.8360 | -0.2066 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 87 | -1.4887 | -0.1776 | -0.9364 | -1.0193 | -0.9492 | -0.2066 |
| 1085 | 6 | 85 | -31.3346 | 0.2310 | 1.8373 | 0.8679 | 0.1338 | -0.0314 |
| | | 88 | -31.3339 | 0.2310 | 1.8373 | 1.0883 | 0.1615 | -0.0314 |
| | 8 | 85 | -14.1471 | 0.9048 | 1.4135 | 1.0796 | 0.3276 | 0.0068 |
| | | 88 | -14.1464 | 0.9048 | 1.4135 | 1.2492 | 0.4361 | 0.0068 |
| 1086 | 6 | 86 | -9.9131 | 1.3152 | 0.4828 | -0.1052 | 1.4154 | 0.1409 |
| | | 89 | -9.9124 | 1.3152 | 0.4869 | -0.0471 | 1.5733 | 0.1409 |
| | 8 | 86 | -29.9133 | 1.6305 | -0.5389 | -0.3007 | 0.8111 | 0.0003 |
| | | 89 | -29.9126 | 1.6346 | -0.5389 | -0.3653 | 1.0071 | 0.0003 |
| 1087 | 6 | 87 | -9.9245 | -1.5574 | -0.0289 | -0.4247 | -1.3296 | -0.2198 |
| | | 90 | -9.9238 | -1.5574 | -0.0249 | -0.4280 | -1.5165 | -0.2198 |
| | 8 | 87 | -1.4894 | -0.1762 | -0.9358 | -1.0192 | -0.9488 | -0.2065 |
| | | 90 | -1.4887 | -0.1721 | -0.9358 | -1.1315 | -0.9697 | -0.2065 |
| 1088 | 6 | 88 | -29.6639 | -0.0806 | -0.2280 | 0.5859 | 0.1262 | -0.0039 |
| | | 91 | -29.6500 | -0.0806 | -0.2280 | 0.0364 | -0.0680 | -0.0039 |
| | 8 | 88 | -12.7060 | 0.0036 | 0.3224 | -0.7923 | 0.3930 | -0.0458 |
| | | 91 | -12.6921 | 0.0037 | 0.3224 | -0.0152 | 0.4018 | -0.0458 |
| 1089 | 6 | 89 | -6.6389 | 0.5414 | -0.7753 | 1.4704 | -1.3297 | -0.1488 |
| | | 92 | -6.6254 | 0.5415 | -0.6933 | -0.2992 | -0.0248 | -0.1488 |
| | 8 | 89 | -27.8845 | -0.1902 | 0.0733 | -0.1023 | 0.4951 | -0.0421 |
| | | 92 | -27.8709 | -0.1082 | 0.0733 | 0.0743 | 0.1355 | -0.0421 |
| 1090 | 6 | 90 | -7.9021 | -0.7501 | -0.3062 | 1.0156 | 1.4571 | 0.0748 |
| | | 93 | -7.8884 | -0.7501 | -0.2242 | 0.3765 | -0.3507 | 0.0748 |
| | 8 | 90 | 1.7992 | -1.2542 | -0.1788 | 0.6838 | 2.5532 | 0.0553 |
| | | 93 | 1.8128 | -1.1722 | -0.1788 | 0.2529 | -0.3705 | 0.0553 |
| 1091 | 6 | 91 | -26.2654 | 0.0270 | -0.0417 | 0.0482 | -0.0804 | -0.0166 |
| | | 94 | -26.2515 | 0.0270 | -0.0416 | -0.0518 | -0.0156 | -0.0166 |
| | 8 | 91 | -10.5239 | -0.1554 | 0.1048 | -0.0493 | 0.3678 | -0.0282 |
| | | 94 | -10.5100 | -0.1553 | 0.1048 | 0.2022 | -0.0051 | -0.0282 |
| 1092 | 6 | 92 | -9.7377 | 0.1093 | 0.0156 | -0.2522 | -0.0571 | -0.0849 |
| | | 95 | -9.7242 | 0.1093 | 0.0973 | -0.1167 | 0.2053 | -0.0849 |
| | 8 | 92 | -25.8803 | -0.1046 | -0.0192 | 0.0724 | 0.1439 | -0.0216 |
| | | 95 | -25.8669 | -0.0229 | -0.0192 | 0.0263 | -0.0091 | -0.0216 |
| 1093 | 6 | 93 | -7.7069 | 0.0381 | -0.2325 | 0.3829 | -0.2823 | 0.0719 |
| | | 96 | -7.6935 | 0.0381 | -0.1508 | -0.0771 | -0.1909 | 0.0719 |
| | 8 | 93 | -2.1141 | -0.0187 | -0.1553 | 0.2602 | -0.2930 | 0.0454 |
| | | 96 | -2.1006 | 0.0630 | -0.1552 | -0.1124 | -0.2398 | 0.0454 |
| 1094 | 6 | 94 | -22.5041 | 0.0182 | 0.0186 | -0.0177 | -0.0236 | 0.0018 |
| | | 97 | -22.4901 | 0.0182 | 0.0187 | 0.0272 | 0.0204 | 0.0018 |
| | 8 | 94 | -12.7382 | -0.0319 | -0.0927 | 0.1783 | 0.0146 | -0.0051 |
| | | 97 | -12.7242 | -0.0318 | -0.0927 | -0.0451 | -0.0622 | -0.0051 |
| 1095 | 6 | 95 | -9.5342 | -0.1129 | 0.0924 | -0.1274 | 0.2035 | -0.0445 |
| | | 98 | -9.5206 | -0.1129 | 0.1744 | 0.1942 | -0.0686 | -0.0445 |
| | 8 | 95 | -21.1504 | -0.0624 | -0.0246 | 0.0261 | 0.0363 | -0.0124 |
| | | 98 | -21.1369 | 0.0196 | -0.0246 | -0.0332 | -0.0153 | -0.0124 |
| 1096 | 6 | 96 | -11.3402 | 0.1049 | -0.0644 | -0.0365 | -0.1768 | 0.0545 |
| | | 99 | -11.3267 | 0.1049 | 0.0176 | -0.0928 | 0.0759 | 0.0545 |
| | 8 | 96 | -4.2581 | 0.1539 | 0.0187 | -0.0866 | -0.2450 | 0.0504 |
| | | 99 | -4.2445 | 0.2359 | 0.0187 | -0.0415 | 0.2248 | 0.0504 |
| 1097 | 6 | 97 | -18.7878 | -0.0077 | -0.0141 | 0.0462 | 0.0336 | -0.0031 |
| | | 100 | -18.7739 | -0.0077 | -0.0141 | 0.0123 | 0.0151 | -0.0031 |
| | 8 | 97 | -10.3469 | 0.0160 | -0.0107 | -0.0229 | -0.0427 | -0.0001 |
| | | 100 | -10.3329 | 0.0160 | -0.0107 | -0.0487 | -0.0041 | -0.0001 |
| 1098 | 6 | 98 | -13.0627 | 0.0443 | -0.1205 | 0.1994 | -0.0719 | -0.0255 |
| | | 101 | -13.0492 | 0.0443 | -0.0385 | 0.0078 | 0.0349 | -0.0255 |
| | 8 | 98 | -18.7698 | -0.0074 | 0.0073 | -0.0484 | -0.0111 | 0.0032 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 101 | -18.7563 | 0.0746 | 0.0073 | -0.0308 | 0.0699 | 0.0032 |
| 1099 | 6 | 99 | -11.2936 | 0.0248 | 0.0236 | -0.0816 | 0.0539 | 0.0416 |
| | | 102 | -11.2801 | 0.0248 | 0.1056 | 0.0742 | 0.1136 | 0.0416 |
| | 8 | 99 | -8.6637 | -0.1241 | 0.0113 | -0.0391 | 0.2312 | 0.0360 |
| | | 102 | -8.6501 | -0.0421 | 0.0113 | -0.0120 | 0.0309 | 0.0360 |
| 1100 | 6 | 100 | -15.4596 | 0.0017 | -0.0232 | 0.0312 | 0.0073 | 0.0042 |
| | | 103 | -15.4457 | 0.0017 | -0.0231 | -0.0246 | 0.0115 | 0.0042 |
| | 8 | 100 | -12.6351 | 0.0006 | 0.0309 | -0.0585 | 0.0030 | 0.0104 |
| | | 103 | -12.6211 | 0.0007 | 0.0309 | 0.0159 | 0.0045 | 0.0104 |
| 1101 | 6 | 101 | -13.1706 | -0.0266 | -0.0368 | 0.0114 | 0.0342 | -0.0241 |
| | | 104 | -13.1571 | -0.0266 | 0.0452 | 0.0214 | -0.0298 | -0.0241 |
| | 8 | 101 | -14.6973 | -0.1006 | 0.0101 | -0.0304 | 0.0934 | 0.0060 |
| | | 104 | -14.6838 | -0.0186 | 0.0101 | -0.0059 | -0.0504 | 0.0060 |
| 1102 | 6 | 102 | -14.7831 | -0.0915 | -0.0994 | 0.0894 | 0.1230 | 0.0245 |
| | | 105 | -14.7696 | -0.0915 | -0.0174 | -0.0513 | -0.0975 | 0.0245 |
| | 8 | 102 | -11.0636 | -0.0514 | -0.0088 | -0.0002 | 0.0371 | 0.0208 |
| | | 105 | -11.0501 | 0.0306 | -0.0088 | -0.0214 | 0.0121 | 0.0208 |
| 1103 | 6 | 103 | -12.1005 | -0.0064 | -0.0232 | -0.0034 | 0.0212 | -0.0008 |
| | | 106 | -12.0866 | -0.0064 | -0.0232 | -0.0593 | 0.0059 | -0.0008 |
| | 8 | 103 | -10.2406 | -0.0167 | 0.0048 | 0.0251 | 0.0085 | 0.0114 |
| | | 106 | -10.2266 | -0.0167 | 0.0048 | 0.0366 | -0.0317 | 0.0114 |
| 1104 | 6 | 104 | -16.3584 | 0.0414 | -0.0781 | 0.0375 | -0.0401 | -0.0150 |
| | | 107 | -16.3448 | 0.0414 | 0.0039 | -0.0519 | 0.0598 | -0.0150 |
| | 8 | 104 | -12.4050 | -0.0232 | 0.0119 | -0.0221 | -0.0414 | 0.0164 |
| | | 107 | -12.3915 | 0.0588 | 0.0119 | 0.0065 | 0.0015 | 0.0164 |
| 1105 | 6 | 105 | -14.6948 | 0.0546 | -0.0154 | -0.0504 | -0.0959 | 0.0157 |
| | | 108 | -14.6812 | 0.0546 | 0.0666 | 0.0114 | 0.0357 | 0.0157 |
| | 8 | 105 | -14.8978 | -0.0901 | -0.0113 | -0.0188 | 0.0367 | 0.0115 |
| | | 108 | -14.8843 | -0.0081 | -0.0113 | -0.0460 | -0.0817 | 0.0115 |
| 1106 | 6 | 106 | -8.9535 | -0.0215 | 0.0110 | -0.0431 | -0.0010 | 0.0014 |
| | | 109 | -8.9396 | -0.0215 | 0.0111 | -0.0164 | -0.0527 | 0.0014 |
| | 8 | 106 | -12.5303 | 0.0166 | -0.0408 | 0.0314 | -0.0247 | 0.0206 |
| | | 109 | -12.5163 | 0.0167 | -0.0408 | -0.0669 | 0.0154 | 0.0206 |
| 1107 | 6 | 107 | -16.3818 | -0.0618 | 0.0089 | -0.0492 | 0.0661 | -0.0126 |
| | | 110 | -16.3683 | -0.0618 | 0.0909 | 0.0710 | -0.0829 | -0.0126 |
| | 8 | 107 | -8.7077 | -0.0595 | 0.0111 | 0.0065 | 0.0228 | 0.0194 |
| | | 110 | -8.6942 | 0.0225 | 0.0111 | 0.0332 | -0.0219 | 0.0194 |
| 1108 | 6 | 108 | -17.9134 | -0.0127 | -0.0547 | 0.0220 | 0.0394 | 0.0061 |
| | | 111 | -17.8998 | -0.0127 | 0.0273 | -0.0110 | 0.0089 | 0.0061 |
| | 8 | 108 | -17.2826 | 0.0321 | 0.0524 | -0.0457 | -0.0802 | 0.0053 |
| | | 111 | -17.2691 | 0.1141 | 0.0524 | 0.0806 | 0.0959 | 0.0053 |
| 1109 | 6 | 109 | -5.7714 | -0.0058 | 0.0433 | 0.0003 | -0.0439 | -0.0045 |
| | | 112 | -5.7575 | -0.0059 | 0.0434 | 0.1048 | -0.0580 | -0.0045 |
| | 8 | 109 | -10.0248 | 0.0358 | -0.0024 | -0.0509 | 0.0263 | 0.0298 |
| | | 112 | -10.0108 | 0.0359 | -0.0024 | -0.0566 | 0.1126 | 0.0298 |
| 1110 | 6 | 110 | -19.3495 | 0.0656 | -0.1254 | 0.0908 | -0.0930 | -0.0096 |
| | | 113 | -19.3359 | 0.0656 | -0.0434 | -0.1126 | 0.0651 | -0.0096 |
| | 8 | 110 | -6.3092 | 0.0414 | -0.0320 | 0.0184 | -0.0165 | 0.0268 |
| | | 113 | -6.2956 | 0.1234 | -0.0320 | -0.0587 | 0.1820 | 0.0268 |
| 1111 | 6 | 111 | -17.7977 | 0.0067 | 0.0285 | -0.0127 | 0.0088 | 0.0069 |
| | | 114 | -17.7841 | 0.0067 | 0.1105 | 0.1548 | 0.0248 | 0.0069 |
| | 8 | 111 | -20.7008 | -0.1230 | 0.0375 | 0.0803 | 0.1193 | -0.0005 |
| | | 114 | -20.6873 | -0.0409 | 0.0375 | 0.1707 | -0.0782 | -0.0005 |
| 1112 | 6 | 112 | -3.9626 | 0.2156 | -0.6465 | 0.1661 | -0.0686 | -0.0023 |
| | | 115 | -3.9590 | 0.2156 | -0.6465 | -0.2282 | 0.0630 | -0.0023 |
| | 8 | 112 | -10.8656 | -0.5339 | 0.2649 | -0.0749 | 0.1535 | 0.0434 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 115 | -10.8621 | -0.5339 | 0.2649 | 0.0867 | -0.1722 | 0.0434 |
| 1113 | 6 | 113 | -19.0380 | 0.0493 | -0.1552 | -0.0951 | 0.0496 | -0.0005 |
| | | 116 | -19.0346 | 0.0493 | -0.1344 | -0.1834 | 0.0796 | -0.0005 |
| | 8 | 113 | -4.2688 | -0.7634 | 0.1732 | -0.0859 | 0.2412 | 0.0405 |
| | | 116 | -4.2654 | -0.7426 | 0.1732 | 0.0197 | -0.2181 | 0.0405 |
| 1114 | 6 | 114 | -19.0199 | -0.2757 | -0.5490 | 0.1927 | 0.0519 | 0.0023 |
| | | 117 | -19.0165 | -0.2757 | -0.5282 | -0.1358 | -0.1163 | 0.0023 |
| | 8 | 114 | -21.6044 | -0.4229 | -0.5773 | 0.2204 | -0.0328 | -0.0235 |
| | | 117 | -21.6010 | -0.4022 | -0.5773 | -0.1318 | -0.2844 | -0.0235 |
| 1115 | 6 | 115 | -3.9592 | 0.2155 | -0.6480 | -0.2280 | 0.0630 | -0.0023 |
| | | 118 | -3.9585 | 0.2155 | -0.6480 | -0.3058 | 0.0888 | -0.0023 |
| | 8 | 115 | -10.8625 | -0.5316 | 0.2614 | 0.0876 | -0.1722 | 0.0434 |
| | | 118 | -10.8618 | -0.5316 | 0.2614 | 0.1189 | -0.2360 | 0.0434 |
| 1116 | 6 | 116 | -19.0336 | 0.0477 | -0.1322 | -0.1833 | 0.0796 | -0.0005 |
| | | 119 | -19.0330 | 0.0477 | -0.1281 | -0.1989 | 0.0854 | -0.0005 |
| | 8 | 116 | -4.2658 | -0.7402 | 0.1700 | 0.0207 | -0.2183 | 0.0405 |
| | | 119 | -4.2651 | -0.7362 | 0.1700 | 0.0411 | -0.3068 | 0.0405 |
| 1117 | 6 | 117 | -19.0168 | -0.2741 | -0.5294 | -0.1358 | -0.1163 | 0.0024 |
| | | 120 | -19.0161 | -0.2741 | -0.5254 | -0.1991 | -0.1492 | 0.0024 |
| | 8 | 117 | -21.6010 | -0.3962 | -0.5795 | -0.1309 | -0.2846 | -0.0235 |
| | | 120 | -21.6003 | -0.3921 | -0.5795 | -0.2004 | -0.3319 | -0.0235 |
| 1118 | 6 | 118 | -3.3330 | -0.0144 | 0.0630 | -0.2453 | 0.0767 | 0.0033 |
| | | 121 | -3.3191 | -0.0144 | 0.0631 | -0.0933 | 0.0421 | 0.0033 |
| | 8 | 118 | -11.5519 | 0.0297 | -0.0403 | 0.1042 | -0.2013 | 0.0516 |
| | | 121 | -11.5380 | 0.0297 | -0.0403 | 0.0071 | -0.1297 | 0.0516 |
| 1119 | 6 | 119 | -18.9803 | -0.0699 | 0.0525 | -0.1868 | 0.0838 | -0.0007 |
| | | 122 | -18.9667 | -0.0699 | 0.1345 | 0.0386 | -0.0846 | -0.0007 |
| | 8 | 119 | -3.7223 | -0.0036 | -0.0168 | 0.0104 | -0.2424 | 0.0396 |
| | | 122 | -3.7087 | 0.0784 | -0.0169 | -0.0302 | -0.1523 | 0.0396 |
| 1120 | 6 | 120 | -19.3956 | 0.0555 | -0.0450 | -0.1623 | -0.1289 | 0.0009 |
| | | 123 | -19.3820 | 0.0555 | 0.0370 | -0.1719 | 0.0049 | 0.0009 |
| | 8 | 120 | -22.1669 | 0.1125 | 0.0380 | -0.1592 | -0.3043 | 0.0802 |
| | | 123 | -22.1532 | 0.1945 | 0.0380 | -0.0675 | 0.0657 | 0.0802 |
| 1121 | 6 | 121 | -2.4584 | -0.0333 | 0.0376 | -0.0864 | 0.0525 | 0.0017 |
| | | 124 | -2.4446 | -0.0333 | 0.0376 | 0.0038 | -0.0275 | 0.0017 |
| | 8 | 121 | -10.1497 | 0.0338 | -0.0345 | 0.0243 | -0.1183 | 0.0430 |
| | | 124 | -10.1358 | 0.0338 | -0.0345 | -0.0585 | -0.0372 | 0.0430 |
| 1122 | 6 | 122 | -19.9504 | 0.0659 | -0.0925 | 0.0440 | -0.0879 | 0.0039 |
| | | 125 | -19.9368 | 0.0659 | -0.0109 | -0.0801 | 0.0704 | 0.0039 |
| | 8 | 122 | -2.3517 | 0.0566 | 0.0128 | -0.0441 | -0.1525 | 0.0492 |
| | | 125 | -2.3380 | 0.1383 | 0.0128 | -0.0135 | 0.0814 | 0.0492 |
| 1123 | 6 | 123 | -19.4884 | 0.0532 | 0.0546 | -0.1724 | -0.0081 | -0.0092 |
| | | 126 | -19.4747 | 0.0532 | 0.1363 | 0.0567 | 0.1196 | -0.0092 |
| | 8 | 123 | -22.9463 | -0.0915 | 0.0386 | -0.0651 | 0.0669 | 0.0615 |
| | | 126 | -22.9327 | -0.0098 | 0.0386 | 0.0275 | -0.0547 | 0.0615 |
| 1124 | 6 | 124 | -1.6977 | 0.0046 | -0.0222 | 0.0051 | -0.0270 | 0.0062 |
| | | 127 | -1.6837 | 0.0046 | -0.0222 | -0.0484 | -0.0159 | 0.0062 |
| | 8 | 124 | -11.4075 | 0.0067 | 0.0264 | -0.0575 | -0.0326 | 0.0502 |
| | | 127 | -11.3936 | 0.0067 | 0.0264 | 0.0060 | -0.0164 | 0.0502 |
| 1125 | 6 | 125 | -19.9028 | -0.0537 | 0.0029 | -0.0787 | 0.0706 | -0.0017 |
| | | 128 | -19.8891 | -0.0537 | 0.0849 | 0.0272 | -0.0587 | -0.0017 |
| | 8 | 125 | -1.9193 | -0.1027 | 0.0133 | -0.0157 | 0.0785 | 0.0494 |
| | | 128 | -1.9056 | -0.0207 | 0.0133 | 0.0163 | -0.0701 | 0.0494 |
| 1126 | 6 | 126 | -20.1133 | -0.0827 | -0.0897 | 0.0537 | 0.1183 | -0.0207 |
| | | 129 | -20.0996 | -0.0827 | -0.0077 | -0.0637 | -0.0811 | -0.0207 |
| | 8 | 126 | -24.2769 | -0.0168 | -0.0035 | 0.0281 | -0.0540 | 0.0435 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 129 | -24.2632 | 0.0652 | -0.0035 | 0.0196 | 0.0043 | 0.0435 |
| 1127 | 6 | 127 | -1.2091 | 0.0060 | -0.0071 | -0.0433 | -0.0133 | -0.0005 |
| | | 130 | -1.1952 | 0.0060 | -0.0071 | -0.0604 | 0.0011 | -0.0005 |
| | 8 | 127 | -10.0971 | -0.0134 | -0.0063 | 0.0094 | -0.0105 | 0.0516 |
| | | 130 | -10.0832 | -0.0133 | -0.0063 | -0.0059 | -0.0426 | 0.0516 |
| 1128 | 6 | 128 | -20.4375 | 0.0494 | -0.0887 | 0.0276 | -0.0587 | 0.0016 |
| | | 131 | -20.4238 | 0.0494 | -0.0067 | -0.0873 | 0.0603 | 0.0016 |
| | 8 | 128 | -0.6582 | -0.0176 | -0.0006 | 0.0046 | -0.0663 | 0.0559 |
| | | 131 | -0.6445 | 0.0644 | -0.0006 | 0.0031 | -0.0099 | 0.0559 |
| 1129 | 6 | 129 | -20.1344 | 0.0448 | -0.0037 | -0.0651 | -0.0784 | -0.0296 |
| | | 132 | -20.1207 | 0.0448 | 0.0783 | 0.0249 | 0.0296 | -0.0296 |
| | 8 | 129 | -24.3976 | -0.0844 | -0.0115 | 0.0240 | 0.0039 | 0.0325 |
| | | 132 | -24.3839 | -0.0024 | -0.0115 | -0.0038 | -0.1007 | 0.0325 |
| 1130 | 6 | 130 | -0.7738 | 0.0023 | 0.0048 | -0.0562 | -0.0023 | 0.0044 |
| | | 133 | -0.7598 | 0.0023 | 0.0049 | -0.0445 | 0.0034 | 0.0044 |
| | 8 | 130 | -11.3245 | -0.0122 | 0.0060 | -0.0102 | -0.0348 | 0.0609 |
| | | 133 | -11.3106 | -0.0121 | 0.0060 | 0.0044 | -0.0641 | 0.0609 |
| 1131 | 6 | 131 | -20.3664 | -0.0537 | 0.0093 | -0.0901 | 0.0634 | -0.0020 |
| | | 134 | -20.3526 | -0.0537 | 0.0913 | 0.0311 | -0.0660 | -0.0020 |
| | 8 | 131 | -0.7074 | -0.0697 | 0.0023 | -0.0036 | -0.0072 | 0.0567 |
| | | 134 | -0.6937 | 0.0123 | 0.0023 | 0.0019 | -0.0764 | 0.0567 |
| 1132 | 6 | 132 | -20.4676 | -0.0410 | -0.0799 | 0.0246 | 0.0303 | -0.0457 |
| | | 135 | -20.4538 | -0.0410 | 0.0021 | -0.0692 | -0.0685 | -0.0457 |
| | 8 | 132 | -25.6514 | 0.0203 | -0.0082 | 0.0037 | -0.1028 | 0.0169 |
| | | 135 | -25.6376 | 0.1023 | -0.0082 | -0.0160 | 0.0449 | 0.0169 |
| 1133 | 6 | 133 | -0.5391 | -0.0104 | 0.0050 | -0.0447 | 0.0105 | -0.0052 |
| | | 136 | -0.5252 | -0.0104 | 0.0050 | -0.0327 | -0.0145 | -0.0052 |
| | 8 | 133 | -10.0345 | -0.0158 | 0.0054 | 0.0074 | -0.0516 | 0.0584 |
| | | 136 | -10.0205 | -0.0157 | 0.0054 | 0.0204 | -0.0895 | 0.0584 |
| 1134 | 6 | 134 | -20.6222 | 0.0551 | -0.0932 | 0.0315 | -0.0654 | 0.0033 |
| | | 137 | -20.6084 | 0.0551 | -0.0113 | -0.0944 | 0.0674 | 0.0033 |
| | 8 | 134 | 0.5470 | 0.0082 | -0.0038 | -0.0065 | -0.0768 | 0.0660 |
| | | 137 | 0.5608 | 0.0902 | -0.0038 | -0.0157 | 0.0418 | 0.0660 |
| 1135 | 6 | 135 | -20.5090 | 0.0740 | 0.0024 | -0.0689 | -0.0746 | -0.0677 |
| | | 138 | -20.4952 | 0.0740 | 0.0844 | 0.0356 | 0.1036 | -0.0677 |
| | 8 | 135 | -25.3165 | -0.1130 | -0.0136 | -0.0122 | 0.0424 | -0.0047 |
| | | 138 | -25.3028 | -0.0310 | -0.0136 | -0.0449 | -0.1311 | -0.0047 |
| 1136 | 6 | 136 | -0.4243 | 0.0098 | -0.0224 | -0.0289 | -0.0170 | 0.0016 |
| | | 139 | -0.4103 | 0.0098 | -0.0223 | -0.0828 | 0.0065 | 0.0016 |
| | 8 | 136 | -11.2966 | 0.0261 | -0.0421 | 0.0215 | -0.0869 | 0.0710 |
| | | 139 | -11.2827 | 0.0262 | -0.0421 | -0.0800 | -0.0239 | 0.0710 |
| 1137 | 6 | 137 | -20.5436 | -0.0615 | 0.0165 | -0.1030 | 0.0715 | -0.0110 |
| | | 140 | -20.5298 | -0.0615 | 0.0985 | 0.0356 | -0.0767 | -0.0110 |
| | 8 | 137 | -0.0548 | -0.1184 | 0.0037 | -0.0251 | 0.0441 | 0.0655 |
| | | 140 | -0.0410 | -0.0364 | 0.0037 | -0.0161 | -0.1425 | 0.0655 |
| 1138 | 6 | 138 | -20.5304 | -0.0437 | -0.1313 | 0.0368 | 0.1035 | -0.1086 |
| | | 141 | -20.5166 | -0.0437 | -0.0493 | -0.1808 | -0.0019 | -0.1086 |
| | 8 | 138 | -26.6209 | 0.0352 | 0.0534 | -0.0449 | -0.1333 | -0.0374 |
| | | 141 | -26.6071 | 0.1172 | 0.0534 | 0.0838 | 0.0503 | -0.0374 |
| 1139 | 6 | 139 | -0.5281 | 0.0102 | 0.0037 | -0.0811 | 0.0004 | -0.0082 |
| | | 142 | -0.5142 | 0.0102 | 0.0037 | -0.0722 | 0.0249 | -0.0082 |
| | 8 | 139 | -9.8388 | 0.0647 | 0.0362 | -0.0739 | -0.0178 | 0.0764 |
| | | 142 | -9.8249 | 0.0647 | 0.0362 | 0.0134 | 0.1381 | 0.0764 |
| 1140 | 6 | 140 | -20.4310 | 0.0572 | -0.1022 | 0.0329 | -0.0741 | -0.0047 |
| | | 143 | -20.4172 | 0.0572 | -0.0202 | -0.1147 | 0.0637 | -0.0047 |
| | 8 | 140 | 1.3121 | -0.0315 | -0.0313 | -0.0294 | -0.1386 | 0.0850 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 143 | 1.3259 | 0.0504 | -0.0314 | -0.1050 | -0.1158 | 0.0850 |
| 1141 | 6 | 141 | -20.4029 | -0.0360 | 0.0492 | -0.1821 | 0.0060 | 0.1381 |
| | | 144 | -20.3890 | -0.0360 | 0.1311 | 0.0352 | -0.0807 | 0.1381 |
| | 8 | 141 | -25.4907 | -0.1152 | 0.0225 | 0.0886 | 0.0394 | 0.2243 |
| | | 144 | -25.4769 | -0.0332 | 0.0225 | 0.1428 | -0.1394 | 0.2243 |
| 1142 | 6 | 142 | -0.6494 | -0.0004 | 0.1878 | -0.0864 | 0.0275 | -0.0032 |
| | | 145 | -0.6459 | -0.0004 | 0.1878 | 0.0281 | 0.0273 | -0.0032 |
| | 8 | 142 | -10.5076 | -0.4779 | 0.1213 | 0.0084 | 0.1827 | 0.1031 |
| | | 145 | -10.5041 | -0.4779 | 0.1213 | 0.0824 | -0.1088 | 0.1031 |
| 1143 | 6 | 143 | -20.4145 | -0.0390 | 0.0689 | -0.1049 | 0.0642 | -0.0184 |
| | | 146 | -20.4110 | -0.0390 | 0.0897 | -0.0565 | 0.0404 | -0.0184 |
| | 8 | 143 | 0.7007 | 0.3665 | 0.3083 | -0.1270 | -0.1473 | 0.1004 |
| | | 146 | 0.7043 | 0.3873 | 0.3083 | 0.0611 | 0.0826 | 0.1004 |
| 1144 | 6 | 144 | -20.3259 | 0.0296 | 0.1037 | 0.0163 | -0.0819 | 0.0869 |
| | | 147 | -20.3224 | 0.0296 | 0.1244 | 0.0859 | -0.0639 | 0.0869 |
| | 8 | 144 | -26.2273 | 0.0793 | -0.4907 | 0.1853 | -0.1463 | 0.1811 |
| | | 147 | -26.2238 | 0.1000 | -0.4907 | -0.1140 | -0.0917 | 0.1811 |
| 1145 | 6 | 145 | -0.6456 | -0.0004 | 0.1887 | 0.0281 | 0.0273 | -0.0032 |
| | | 148 | -0.6450 | -0.0004 | 0.1887 | 0.0507 | 0.0273 | -0.0032 |
| | 8 | 145 | -10.5055 | -0.4743 | 0.1200 | 0.0826 | -0.1088 | 0.1031 |
| | | 148 | -10.5048 | -0.4743 | 0.1200 | 0.0970 | -0.1657 | 0.1031 |
| 1146 | 6 | 146 | -20.4115 | -0.0402 | 0.0892 | -0.0563 | 0.0404 | -0.0184 |
| | | 149 | -20.4108 | -0.0402 | 0.0932 | -0.0454 | 0.0355 | -0.0184 |
| | 8 | 146 | 0.7046 | 0.3885 | 0.3075 | 0.0613 | 0.0825 | 0.1004 |
| | | 149 | 0.7053 | 0.3925 | 0.3075 | 0.0982 | 0.1294 | 0.1004 |
| 1147 | 6 | 147 | -20.3230 | 0.0312 | 0.1239 | 0.0859 | -0.0639 | 0.0869 |
| | | 150 | -20.3224 | 0.0312 | 0.1280 | 0.1010 | -0.0601 | 0.0869 |
| | 8 | 147 | -26.2251 | 0.1039 | -0.4902 | -0.1138 | -0.0918 | 0.1811 |
| | | 150 | -26.2244 | 0.1080 | -0.4902 | -0.1726 | -0.0790 | 0.1811 |
| 1148 | 6 | 148 | -0.8238 | -0.0196 | -0.0455 | 0.0424 | 0.0259 | 0.0031 |
| | | 151 | -0.8099 | -0.0196 | -0.0455 | -0.0672 | -0.0213 | 0.0031 |
| | 8 | 148 | -11.1804 | 0.0013 | -0.0491 | 0.0941 | -0.1262 | 0.1032 |
| | | 151 | -11.1665 | 0.0013 | -0.0491 | -0.0241 | -0.1231 | 0.1032 |
| 1149 | 6 | 149 | -20.3579 | -0.0458 | -0.0091 | -0.0523 | 0.0465 | -0.0196 |
| | | 152 | -20.3440 | -0.0458 | 0.0729 | 0.0246 | -0.0639 | -0.0196 |
| | 8 | 149 | -0.0682 | -0.1062 | -0.0173 | 0.0619 | 0.1089 | 0.0941 |
| | | 152 | -0.0543 | -0.0243 | -0.0173 | 0.0203 | -0.0483 | 0.0941 |
| 1150 | 6 | 150 | -20.0244 | 0.0442 | -0.1009 | 0.0906 | -0.0734 | 0.0482 |
| | | 153 | -20.0106 | 0.0442 | -0.0189 | -0.0537 | 0.0330 | 0.0482 |
| | 8 | 150 | -26.9053 | 0.0133 | 0.0234 | -0.1314 | -0.1003 | 0.1186 |
| | | 153 | -26.8914 | 0.0952 | 0.0235 | -0.0749 | 0.0305 | 0.1186 |
| 1151 | 6 | 151 | -1.3352 | 0.0046 | 0.0073 | -0.0648 | -0.0205 | 0.0003 |
| | | 154 | -1.3213 | 0.0046 | 0.0073 | -0.0474 | -0.0094 | 0.0003 |
| | 8 | 151 | -9.7677 | 0.0189 | -0.0113 | -0.0115 | -0.1062 | 0.0925 |
| | | 154 | -9.7538 | 0.0189 | -0.0113 | -0.0388 | -0.0609 | 0.0925 |
| 1152 | 6 | 152 | -19.8569 | 0.0478 | -0.0821 | 0.0184 | -0.0614 | -0.0188 |
| | | 155 | -19.8431 | 0.0478 | -0.0005 | -0.0806 | 0.0534 | -0.0188 |
| | 8 | 152 | 1.2978 | -0.0368 | -0.0021 | 0.0027 | -0.0482 | 0.0960 |
| | | 155 | 1.3117 | 0.0448 | -0.0021 | -0.0024 | -0.0386 | 0.0960 |
| 1153 | 6 | 153 | -20.0690 | 0.0159 | -0.0189 | -0.0499 | 0.0241 | 0.0355 |
| | | 156 | -20.0552 | 0.0159 | 0.0627 | 0.0027 | 0.0622 | 0.0355 |
| | 8 | 153 | -25.2127 | -0.0706 | 0.0270 | -0.0672 | 0.0113 | 0.0893 |
| | | 156 | -25.1988 | 0.0110 | 0.0270 | -0.0023 | -0.0601 | 0.0893 |
| 1154 | 6 | 154 | -1.9314 | 0.0066 | 0.0026 | -0.0469 | -0.0073 | 0.0024 |
| | | 157 | -1.9175 | 0.0066 | 0.0026 | -0.0406 | 0.0085 | 0.0024 |
| | 8 | 154 | -11.0580 | 0.0085 | 0.0179 | -0.0386 | -0.0542 | 0.0961 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 157 | -11.0441 | 0.0085 | 0.0179 | 0.0046 | -0.0336 | 0.0961 |
| 1155 | 6 | 155 | -19.8580 | -0.0452 | 0.0154 | -0.0804 | 0.0525 | -0.0302 |
| | | 158 | -19.8441 | -0.0452 | 0.0974 | 0.0555 | -0.0564 | -0.0302 |
| | 8 | 155 | -0.5414 | -0.0511 | 0.0089 | -0.0086 | -0.0452 | 0.0901 |
| | | 158 | -0.5274 | 0.0308 | 0.0089 | 0.0129 | -0.0698 | 0.0901 |
| 1156 | 6 | 156 | -19.4434 | -0.0699 | -0.0806 | 0.0024 | 0.0621 | 0.0248 |
| | | 159 | -19.4295 | -0.0699 | 0.0014 | -0.0931 | -0.1063 | 0.0248 |
| | 8 | 156 | -26.5992 | 0.0233 | 0.0108 | 0.0006 | -0.0643 | 0.0606 |
| | | 159 | -26.5852 | 0.1052 | 0.0108 | 0.0266 | 0.0906 | 0.0606 |
| 1157 | 6 | 157 | -2.6495 | 0.0003 | -0.0010 | -0.0420 | 0.0065 | -0.0005 |
| | | 160 | -2.6355 | 0.0003 | -0.0010 | -0.0444 | 0.0073 | -0.0005 |
| | 8 | 157 | -9.6632 | -0.0096 | -0.0028 | 0.0062 | -0.0233 | 0.0936 |
| | | 160 | -9.6493 | -0.0096 | -0.0028 | -0.0007 | -0.0463 | 0.0936 |
| 1158 | 6 | 158 | -19.0576 | 0.0739 | -0.0997 | 0.0514 | -0.0536 | -0.0405 |
| | | 161 | -19.0437 | 0.0739 | -0.0177 | -0.0901 | 0.1246 | -0.0405 |
| | 8 | 158 | 0.7766 | 0.0349 | -0.0084 | 0.0041 | -0.0732 | 0.0958 |
| | | 161 | 0.7906 | 0.1168 | -0.0084 | -0.0162 | 0.1097 | 0.0958 |
| 1159 | 6 | 159 | -19.4633 | 0.1035 | 0.0044 | -0.0905 | -0.1097 | 0.0144 |
| | | 162 | -19.4493 | 0.1035 | 0.0863 | 0.0189 | 0.1396 | 0.0144 |
| | 8 | 159 | -24.4468 | -0.1893 | -0.0017 | 0.0317 | 0.0877 | 0.0351 |
| | | 162 | -24.4328 | -0.1074 | -0.0017 | 0.0276 | -0.2699 | 0.0351 |
| 1160 | 6 | 160 | -3.5723 | -0.0074 | 0.0044 | -0.0466 | 0.0111 | 0.0006 |
| | | 163 | -3.5583 | -0.0074 | 0.0044 | -0.0359 | -0.0066 | 0.0006 |
| | 8 | 160 | -10.9589 | -0.0013 | -0.0008 | -0.0014 | -0.0392 | 0.1055 |
| | | 163 | -10.9450 | -0.0013 | -0.0008 | -0.0033 | -0.0423 | 0.1055 |
| 1161 | 6 | 161 | -19.0270 | -0.1390 | 0.0007 | -0.0869 | 0.1327 | -0.0620 |
| | | 164 | -19.0130 | -0.1389 | 0.0826 | 0.0134 | -0.2021 | -0.0620 |
| | 8 | 161 | -1.7809 | -0.2091 | -0.0021 | -0.0227 | 0.1069 | 0.0980 |
| | | 164 | -1.7669 | -0.1272 | -0.0021 | -0.0278 | -0.2983 | 0.0980 |
| 1162 | 6 | 162 | -18.3377 | -0.1083 | -0.0710 | 0.0107 | 0.1351 | 0.0094 |
| | | 165 | -18.3237 | -0.1083 | 0.0109 | -0.0618 | -0.1258 | 0.0094 |
| | 8 | 162 | -25.7073 | 0.1261 | -0.0202 | 0.0389 | -0.2747 | 0.1959 |
| | | 165 | -25.6932 | 0.2080 | -0.0202 | -0.0097 | 0.1279 | 0.1959 |
| 1163 | 6 | 163 | -4.8704 | -0.0036 | 0.0138 | -0.0399 | -0.0098 | -0.0006 |
| | | 166 | -4.8564 | -0.0036 | 0.0138 | -0.0067 | -0.0185 | -0.0006 |
| | 8 | 163 | -9.6035 | -0.0095 | -0.0100 | 0.0035 | -0.0311 | 0.1038 |
| | | 166 | -9.5896 | -0.0095 | -0.0100 | -0.0206 | -0.0540 | 0.1038 |
| 1164 | 6 | 164 | -17.5331 | 0.1558 | -0.0786 | 0.0061 | -0.1985 | 0.0695 |
| | | 167 | -17.5191 | 0.1558 | 0.0034 | -0.0846 | 0.1769 | 0.0695 |
| | 8 | 164 | -0.3102 | 0.1650 | 0.0075 | -0.0402 | -0.3037 | 0.1119 |
| | | 167 | -0.2961 | 0.2469 | 0.0075 | -0.0222 | 0.1928 | 0.1119 |
| 1165 | 6 | 165 | -18.3205 | 0.0892 | 0.0115 | -0.0631 | -0.1256 | 0.0062 |
| | | 168 | -18.3065 | 0.0892 | 0.0935 | 0.0635 | 0.0895 | 0.0062 |
| | 8 | 165 | -22.6433 | -0.1216 | -0.0209 | 0.0015 | 0.1012 | 0.1777 |
| | | 168 | -22.6292 | -0.0397 | -0.0209 | -0.0489 | -0.0932 | 0.1777 |
| 1166 | 6 | 166 | -6.5984 | 0.0148 | -0.0235 | -0.0124 | -0.0199 | 0.0016 |
| | | 169 | -6.5844 | 0.0148 | -0.0235 | -0.0689 | 0.0158 | 0.0016 |
| | 8 | 166 | -10.8659 | -0.0112 | 0.0068 | -0.0197 | -0.0396 | 0.1131 |
| | | 169 | -10.8519 | -0.0113 | 0.0068 | -0.0035 | -0.0667 | 0.1131 |
| 1167 | 6 | 167 | -17.5713 | -0.1237 | 0.0182 | -0.0864 | 0.1779 | 0.0517 |
| | | 170 | -17.5573 | -0.1237 | 0.1001 | 0.0562 | -0.1202 | 0.0517 |
| | 8 | 167 | -3.8608 | -0.1627 | 0.0138 | -0.0291 | 0.1669 | 0.1151 |
| | | 170 | -3.8467 | -0.0808 | 0.0138 | 0.0041 | -0.1266 | 0.1151 |
| 1168 | 6 | 168 | -16.8258 | -0.0335 | -0.1093 | 0.0542 | 0.0836 | 0.0060 |
| | | 171 | -16.8118 | -0.0335 | -0.0274 | -0.1105 | 0.0028 | 0.0060 |
| | 8 | 168 | -23.9926 | 0.0065 | 0.0296 | -0.0391 | -0.0998 | 0.1626 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 171 | -23.9785 | 0.0885 | 0.0296 | 0.0322 | 0.0147 | 0.1626 |
| 1169 | 6 | 169 | -8.2176 | 0.0222 | -0.0104 | -0.0771 | 0.0061 | 0.0054 |
| | | 172 | -8.2037 | 0.0222 | -0.0104 | -0.1022 | 0.0596 | 0.0054 |
| | 8 | 169 | -9.4760 | -0.0326 | -0.0379 | 0.0022 | -0.0549 | 0.1115 |
| | | 172 | -9.4620 | -0.0326 | -0.0379 | -0.0892 | -0.1335 | 0.1115 |
| 1170 | 6 | 170 | -15.6007 | 0.0051 | -0.1081 | 0.0398 | -0.1089 | 0.0487 |
| | | 173 | -15.5866 | 0.0051 | -0.0262 | -0.1221 | -0.0966 | 0.0487 |
| | 8 | 170 | -2.5541 | -0.0692 | -0.0112 | -0.0132 | -0.1261 | 0.1199 |
| | | 173 | -2.5400 | 0.0127 | -0.0112 | -0.0402 | -0.1941 | 0.1199 |
| 1171 | 6 | 171 | -16.5941 | 0.0126 | -0.0191 | -0.1128 | 0.0028 | 0.0041 |
| | | 174 | -16.5800 | 0.0126 | 0.0628 | -0.0602 | 0.0333 | 0.0041 |
| | 8 | 171 | -20.0212 | -0.0353 | 0.0312 | 0.0443 | -0.0187 | 0.1617 |
| | | 174 | -20.0070 | 0.0466 | 0.0312 | 0.1196 | -0.0051 | 0.1617 |
| 1172 | 6 | 172 | -9.2847 | -0.2113 | 1.2050 | -0.1471 | 0.0698 | 0.0244 |
| | | 175 | -9.2812 | -0.2113 | 1.2050 | 0.5880 | -0.0591 | 0.0244 |
| | 8 | 172 | -10.1103 | -0.1280 | 0.5490 | -0.0933 | -0.1126 | 0.1191 |
| | | 175 | -10.1067 | -0.1281 | 0.5490 | 0.2416 | -0.1908 | 0.1191 |
| 1173 | 6 | 173 | -15.6667 | 0.5347 | 0.4623 | -0.1379 | -0.1084 | 0.0509 |
| | | 176 | -15.6631 | 0.5347 | 0.4830 | 0.1504 | 0.2178 | 0.0509 |
| | 8 | 173 | -4.5740 | 1.6504 | 0.4166 | -0.0628 | -0.2609 | 0.1273 |
| | | 176 | -4.5704 | 1.6712 | 0.4166 | 0.1913 | 0.7522 | 0.1273 |
| 1174 | 6 | 174 | -15.7461 | -0.3296 | 0.6687 | -0.0870 | 0.0191 | 0.0213 |
| | | 177 | -15.7425 | -0.3296 | 0.6894 | 0.3272 | -0.1819 | 0.0213 |
| | 8 | 174 | -20.6558 | 0.4394 | -0.9979 | 0.1547 | -0.0347 | 0.1633 |
| | | 177 | -20.6522 | 0.4601 | -0.9979 | -0.4540 | 0.2397 | 0.1633 |
| 1175 | 6 | 175 | -9.2829 | -0.2110 | 1.2048 | 0.5878 | -0.0591 | 0.0244 |
| | | 178 | -9.2822 | -0.2110 | 1.2048 | 0.7324 | -0.0844 | 0.0244 |
| | 8 | 175 | -10.1070 | -0.1260 | 0.5480 | 0.2415 | -0.1907 | 0.1191 |
| | | 178 | -10.1063 | -0.1260 | 0.5480 | 0.3073 | -0.2058 | 0.1191 |
| 1176 | 6 | 176 | -15.6623 | 0.5323 | 0.4811 | 0.1505 | 0.2178 | 0.0509 |
| | | 179 | -15.6616 | 0.5323 | 0.4811 | 0.2082 | 0.2817 | 0.0509 |
| | 8 | 176 | -4.5714 | 1.6697 | 0.4164 | 0.1911 | 0.7522 | 0.1273 |
| | | 179 | -4.5707 | 1.6697 | 0.4164 | 0.2411 | 0.9525 | 0.1273 |
| 1177 | 6 | 177 | -15.7435 | -0.3272 | 0.6843 | 0.3273 | -0.1819 | 0.0213 |
| | | 180 | -15.7428 | -0.3272 | 0.6843 | 0.4094 | -0.2212 | 0.0213 |
| | 8 | 177 | -20.6536 | 0.4567 | -0.9905 | -0.4542 | 0.2396 | 0.1633 |
| | | 180 | -20.6529 | 0.4623 | -0.9905 | -0.5730 | 0.2947 | 0.1633 |
| 1178 | 6 | 178 | -14.0445 | 0.0222 | -0.3599 | 0.4389 | -0.0463 | -0.0150 |
| | | 181 | -14.0305 | 0.0222 | -0.3599 | -0.4284 | 0.0071 | -0.0150 |
| | 8 | 178 | -2.9591 | 0.2746 | -0.2201 | 0.2512 | -0.1832 | 0.0084 |
| | | 181 | -2.9451 | 0.2746 | -0.2202 | -0.2793 | 0.4786 | 0.0084 |
| 1179 | 6 | 179 | 0.2796 | -0.1325 | 0.1831 | -0.0148 | 0.2820 | 0.0015 |
| | | 182 | 0.2936 | -0.1325 | 0.1831 | 0.4265 | -0.0372 | 0.0015 |
| | 8 | 179 | -8.7606 | -0.3515 | 0.1361 | 0.0289 | 0.4938 | 0.0148 |
| | | 182 | -8.7465 | -0.2383 | 0.1360 | 0.3568 | -0.2169 | 0.0148 |
| 1180 | 6 | 180 | 0.3590 | 0.0731 | 0.1886 | -0.0273 | -0.1646 | -0.0176 |
| | | 183 | 0.3729 | 0.0731 | 0.1886 | 0.4271 | 0.0115 | -0.0176 |
| | 8 | 180 | 1.5977 | 0.0320 | 0.1732 | -0.4274 | -0.0074 | 0.0135 |
| | | 183 | 1.6118 | 0.1452 | 0.1732 | -0.0101 | 0.2061 | 0.0135 |
| 1181 | 6 | 181 | -13.0874 | -0.0061 | 0.4572 | -0.4808 | 0.0082 | -0.0024 |
| | | 184 | -13.0735 | -0.0061 | 0.4572 | 0.6165 | -0.0063 | -0.0024 |
| | 8 | 181 | -2.9029 | -0.5726 | 0.2399 | -0.2807 | 0.5291 | 0.0160 |
| | | 184 | -2.8890 | -0.5726 | 0.2399 | 0.2952 | -0.8452 | 0.0160 |
| 1182 | 6 | 182 | 1.5886 | -0.0965 | -0.4585 | 0.4485 | 0.0063 | -0.0029 |
| | | 185 | 1.6025 | -0.0965 | -0.4584 | -0.6518 | -0.2254 | -0.0029 |
| | 8 | 182 | -7.8028 | 0.1540 | -0.4328 | 0.4035 | -0.2395 | -0.0011 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 185 | -7.7887 | 0.2668 | -0.4328 | -0.6353 | 0.2655 | -0.0011 |
| 1183 | 6 | 183 | 1.6741 | 0.1113 | -0.4594 | 0.4546 | -0.0347 | 0.0099 |
| | | 186 | 1.6880 | 0.1113 | -0.4594 | -0.6480 | 0.2324 | 0.0099 |
| | 8 | 183 | 3.9081 | -0.1705 | 0.1677 | -0.0647 | 0.1710 | 0.0045 |
| | | 186 | 3.9221 | -0.0577 | 0.1677 | 0.3378 | -0.1029 | 0.0045 |
| 1184 | 6 | 184 | -21.1573 | 0.0020 | -0.1557 | 0.5962 | -0.0068 | 0.0091 |
| | | 187 | -21.1434 | 0.0020 | -0.1557 | 0.2209 | -0.0020 | 0.0091 |
| | 8 | 184 | -5.5669 | 0.3969 | -0.0805 | 0.2737 | -0.8620 | -0.0175 |
| | | 187 | -5.5530 | 0.3968 | -0.0805 | 0.0797 | 0.0943 | -0.0175 |
| 1185 | 6 | 185 | 3.1967 | 0.1663 | 0.2611 | -0.6527 | -0.2517 | 0.0384 |
| | | 188 | 3.2107 | 0.1663 | 0.2610 | -0.0235 | 0.1492 | 0.0384 |
| | 8 | 185 | -15.1640 | -0.0859 | 0.2149 | -0.6373 | 0.2436 | 0.0234 |
| | | 188 | -15.1499 | 0.0273 | 0.2149 | -0.1195 | 0.1729 | 0.0234 |
| 1186 | 6 | 186 | 3.4561 | -0.1659 | 0.2600 | -0.6483 | 0.2573 | -0.0071 |
| | | 189 | 3.4701 | -0.1659 | 0.2600 | -0.0216 | -0.1426 | -0.0071 |
| | 8 | 186 | 9.6895 | -0.0812 | -0.1842 | 0.3551 | -0.0929 | 0.0322 |
| | | 189 | 9.7037 | 0.0321 | -0.1842 | -0.0887 | -0.1521 | 0.0322 |
| 1187 | 6 | 187 | -24.4001 | 0.0916 | -7.5211 | 0.4658 | -0.0034 | 0.0240 |
| | | 407 | -24.3973 | 0.0916 | -7.5211 | -3.1443 | 0.0405 | 0.0240 |
| | 8 | 187 | -6.7491 | 7.4013 | -2.6678 | 0.1974 | -0.1154 | 0.0637 |
| | | 407 | -6.7463 | 7.4013 | -2.6678 | -1.0831 | 3.4373 | 0.0637 |
| 1188 | 6 | 188 | 3.8757 | 1.9533 | 6.2429 | -0.2259 | 0.1394 | -0.0125 |
| | | 409 | 3.8784 | 1.9533 | 6.2428 | 2.7707 | 1.0770 | -0.0125 |
| | 8 | 188 | -18.2167 | -3.3753 | 7.4123 | -0.3388 | 0.2963 | -0.0195 |
| | | 409 | -18.2140 | -3.3528 | 7.4123 | 3.2192 | -1.3184 | -0.0195 |
| 1189 | 6 | 189 | 4.1265 | -1.9221 | 6.0923 | -0.2192 | -0.1328 | 0.0792 |
| | | 408 | 4.1293 | -1.9221 | 6.0923 | 2.7051 | -1.0554 | 0.0792 |
| | 8 | 189 | 12.2996 | 1.9270 | -3.3018 | -0.0258 | -0.2493 | 0.0087 |
| | | 408 | 12.3024 | 1.9496 | -3.3018 | -1.6107 | 0.6811 | 0.0087 |
| 1190 | 6 | 190 | -17.2837 | 0.0062 | -0.6326 | 1.0868 | -0.0151 | -0.0049 |
| | | 193 | -17.2698 | 0.0062 | -0.6325 | -0.4376 | 0.0000 | -0.0049 |
| | 8 | 190 | -6.8578 | 0.8706 | -0.3166 | 0.5234 | -1.5458 | -0.0259 |
| | | 193 | -6.8438 | 0.8706 | -0.3166 | -0.2397 | 0.5524 | -0.0259 |
| 1191 | 6 | 191 | -0.3254 | 0.1611 | 0.6991 | -1.2965 | -0.3291 | 0.0047 |
| | | 194 | -0.3115 | 0.1611 | 0.8124 | 0.5249 | 0.0590 | 0.0047 |
| | 8 | 191 | -12.1129 | -0.2874 | 0.7154 | -1.2535 | 0.3965 | -0.0049 |
| | | 194 | -12.0990 | -0.1741 | 0.7154 | 0.4705 | -0.1595 | -0.0049 |
| 1192 | 6 | 192 | -0.3702 | -0.1630 | 0.6868 | -1.2739 | 0.3325 | -0.0244 |
| | | 195 | -0.3563 | -0.1630 | 0.8000 | 0.5178 | -0.0603 | -0.0244 |
| | 8 | 192 | 4.6282 | 0.2385 | -0.3043 | 0.5728 | -0.4756 | -0.0193 |
| | | 195 | 4.6422 | 0.3517 | -0.3043 | -0.1605 | 0.2356 | -0.0193 |
| 1193 | 6 | 193 | -16.1290 | 0.0023 | 0.2241 | -0.3327 | 0.0008 | -0.0010 |
| | | 196 | -16.1150 | 0.0023 | 0.2241 | 0.2073 | 0.0063 | -0.0010 |
| | 8 | 193 | -7.3205 | -0.2404 | 0.1275 | -0.1933 | 0.4852 | -0.0070 |
| | | 196 | -7.3066 | -0.2404 | 0.1275 | 0.1139 | -0.0941 | -0.0070 |
| 1194 | 6 | 194 | -2.0996 | -0.0083 | -0.2821 | 0.4657 | 0.0506 | -0.0037 |
| | | 197 | -2.0857 | -0.0083 | -0.1688 | -0.0777 | 0.0305 | -0.0037 |
| | 8 | 194 | -11.3804 | 0.0405 | -0.2217 | 0.3969 | -0.0938 | -0.0117 |
| | | 197 | -11.3664 | 0.1537 | -0.2217 | -0.1374 | 0.1401 | -0.0117 |
| 1195 | 6 | 195 | -2.1774 | 0.0103 | -0.2823 | 0.4634 | -0.0521 | 0.0040 |
| | | 198 | -2.1636 | 0.0103 | -0.1690 | -0.0804 | -0.0273 | 0.0040 |
| | 8 | 195 | 2.1859 | -0.1597 | 0.0652 | -0.1343 | 0.2273 | -0.0102 |
| | | 198 | 2.1998 | -0.0464 | 0.0652 | 0.0229 | -0.0211 | -0.0102 |
| 1196 | 6 | 196 | -13.4643 | -0.0059 | -0.1551 | 0.1995 | 0.0071 | 0.0008 |
| | | 199 | -13.4503 | -0.0059 | -0.1551 | -0.1743 | -0.0070 | 0.0008 |
| | 8 | 196 | -6.8158 | 0.0279 | -0.0757 | 0.1095 | -0.0746 | -0.0063 |

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|---|---|---|---|---|---|---|---|---|
| | | 199 | -6.8018 | 0.0279 | -0.0757 | -0.0730 | -0.0073 | -0.0063 |
| 1197 | 6 | 197 | -2.8937 | -0.0319 | -0.0190 | -0.0584 | 0.0350 | -0.0020 |
| | | 200 | -2.8799 | -0.0319 | 0.0943 | 0.0323 | -0.0420 | -0.0020 |
| | 8 | 197 | -9.2078 | -0.1649 | 0.0720 | -0.1194 | 0.1417 | -0.0100 |
| | | 200 | -9.1939 | -0.0516 | 0.0720 | 0.0541 | -0.1191 | -0.0100 |
| 1198 | 6 | 198 | -3.1473 | 0.0244 | -0.0264 | -0.0600 | -0.0321 | 0.0044 |
| | | 201 | -3.1335 | 0.0244 | 0.0869 | 0.0129 | 0.0267 | 0.0044 |
| | 8 | 198 | 0.3546 | -0.0543 | -0.0004 | 0.0122 | -0.0111 | -0.0093 |
| | | 201 | 0.3686 | 0.0590 | -0.0004 | 0.0112 | -0.0055 | -0.0093 |
| 1199 | 6 | 199 | -10.8552 | -0.0082 | 0.2525 | -0.1546 | -0.0039 | 0.0019 |
| | | 202 | -10.8412 | -0.0082 | 0.2525 | 0.4539 | -0.0238 | 0.0019 |
| | 8 | 199 | -6.4622 | 0.0985 | 0.0498 | -0.0592 | -0.0100 | -0.0126 |
| | | 202 | -6.4483 | 0.0985 | 0.0497 | 0.0607 | 0.2273 | -0.0126 |
| 1200 | 6 | 200 | -4.0937 | 0.0231 | 0.0377 | 0.0302 | -0.0362 | 0.0053 |
| | | 203 | -4.0800 | 0.0231 | 0.1510 | 0.2576 | 0.0194 | 0.0053 |
| | 8 | 200 | -7.2055 | 0.1921 | 0.0026 | 0.0450 | -0.1064 | -0.0083 |
| | | 203 | -7.1916 | 0.3054 | 0.0025 | 0.0511 | 0.4930 | -0.0083 |
| 1201 | 6 | 201 | -4.4512 | 0.0072 | 0.1085 | 0.0055 | 0.0191 | 0.0023 |
| | | 204 | -4.4374 | 0.0072 | 0.2218 | 0.4035 | 0.0364 | 0.0023 |
| | 8 | 201 | -1.9401 | 0.0847 | 0.0270 | 0.0060 | -0.0060 | -0.0075 |
| | | 204 | -1.9262 | 0.1980 | 0.0270 | 0.0711 | 0.3346 | -0.0075 |
| 1202 | 6 | 202 | -9.6258 | 0.0748 | -1.0965 | 0.5486 | -0.0241 | 0.0043 |
| | | 205 | -9.6222 | 0.0748 | -1.0965 | -0.1203 | 0.0216 | 0.0043 |
| | 8 | 202 | -6.3081 | -0.4689 | -0.0727 | 0.0650 | 0.2536 | -0.0124 |
| | | 205 | -6.3046 | -0.4689 | -0.0727 | 0.0207 | -0.0324 | -0.0124 |
| 1203 | 6 | 203 | -4.7311 | 0.0774 | -0.6132 | 0.2994 | 0.0018 | 0.0061 |
| | | 206 | -4.7277 | 0.0774 | -0.5845 | -0.0659 | 0.0490 | 0.0061 |
| | 8 | 203 | -6.2178 | -1.1206 | -0.0552 | 0.0451 | 0.5829 | -0.0172 |
| | | 206 | -6.2143 | -1.0920 | -0.0552 | 0.0115 | -0.0919 | -0.0172 |
| 1204 | 6 | 204 | -5.1737 | -0.2413 | -0.8746 | 0.4713 | 0.0698 | 0.0132 |
| | | 207 | -5.1702 | -0.2413 | -0.8459 | -0.0534 | -0.0774 | 0.0132 |
| | 8 | 204 | -3.1259 | -0.8947 | -0.2097 | 0.0963 | 0.4142 | -0.0113 |
| | | 207 | -3.1224 | -0.8660 | -0.2097 | -0.0317 | -0.1228 | -0.0113 |
| 1205 | 6 | 205 | -9.6218 | 0.0747 | -1.0986 | -0.1201 | 0.0216 | 0.0043 |
| | | 208 | -9.6211 | 0.0747 | -1.0986 | -0.2520 | 0.0305 | 0.0043 |
| | 8 | 205 | -6.3049 | -0.4654 | -0.0700 | 0.0200 | -0.0325 | -0.0124 |
| | | 208 | -6.3042 | -0.4654 | -0.0700 | 0.0116 | -0.0884 | -0.0124 |
| 1206 | 6 | 206 | -4.7275 | 0.0772 | -0.5807 | -0.0661 | 0.0490 | 0.0061 |
| | | 209 | -4.7268 | 0.0772 | -0.5750 | -0.1354 | 0.0582 | 0.0061 |
| | 8 | 206 | -6.2137 | -1.0938 | -0.0538 | 0.0111 | -0.0919 | -0.0172 |
| | | 209 | -6.2130 | -1.0881 | -0.0538 | 0.0047 | -0.2228 | -0.0172 |
| 1207 | 6 | 207 | -5.1702 | -0.2411 | -0.8470 | -0.0533 | -0.0774 | 0.0132 |
| | | 210 | -5.1695 | -0.2411 | -0.8413 | -0.1546 | -0.1063 | 0.0132 |
| | 8 | 207 | -3.1216 | -0.8662 | -0.2081 | -0.0321 | -0.1226 | -0.0113 |
| | | 210 | -3.1209 | -0.8606 | -0.2081 | -0.0570 | -0.2262 | -0.0113 |
| 1208 | 6 | 208 | -8.5719 | 0.0002 | 0.0582 | -0.1846 | 0.0240 | 0.0067 |
| | | 211 | -8.5580 | 0.0002 | 0.0582 | -0.0442 | 0.0246 | 0.0067 |
| | 8 | 208 | -6.5739 | 0.0174 | -0.0034 | 0.0141 | -0.0799 | -0.0060 |
| | | 211 | -6.5600 | 0.0174 | -0.0034 | 0.0060 | -0.0380 | -0.0060 |
| 1209 | 6 | 209 | -4.7137 | -0.0472 | 0.0192 | -0.1190 | 0.0509 | 0.0026 |
| | | 212 | -4.7000 | -0.0472 | 0.1133 | 0.0407 | -0.0628 | 0.0026 |
| | 8 | 209 | -4.8707 | -0.0314 | -0.0128 | -0.0023 | -0.1548 | -0.0142 |
| | | 212 | -4.8568 | 0.0626 | -0.0128 | -0.0331 | -0.1173 | -0.0142 |
| 1210 | 6 | 210 | -6.2506 | 0.0274 | -0.0481 | -0.1118 | -0.0820 | 0.0146 |
| | | 213 | -6.2369 | 0.0274 | 0.0459 | -0.1144 | -0.0160 | 0.0146 |
| | 8 | 210 | -3.6920 | 0.0374 | 0.0046 | -0.0379 | -0.1796 | -0.0106 |

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|---|---|---|---|---|---|---|---|---|
| | | 213 | -3.6781 | 0.1314 | 0.0046 | -0.0268 | 0.0239 | -0.0106 |
| 1211 | 6 | 211 | -6.4639 | -0.0235 | 0.0210 | -0.0300 | 0.0368 | 0.0065 |
| | | 214 | -6.4500 | -0.0235 | 0.0210 | 0.0203 | -0.0197 | 0.0065 |
| | 8 | 211 | -5.4818 | 0.0116 | -0.0163 | 0.0178 | -0.0327 | -0.0062 |
| | | 214 | -5.4679 | 0.0116 | -0.0163 | -0.0212 | -0.0048 | -0.0062 |
| 1212 | 6 | 212 | -6.5532 | 0.0650 | -0.0797 | 0.0510 | -0.0700 | 0.0037 |
| | | 215 | -6.5395 | 0.0650 | 0.0140 | -0.0279 | 0.0860 | 0.0037 |
| | 8 | 212 | -4.3173 | 0.0482 | 0.0103 | -0.0365 | -0.1163 | -0.0065 |
| | | 215 | -4.3034 | 0.1418 | 0.0103 | -0.0117 | 0.1117 | -0.0065 |
| 1213 | 6 | 213 | -6.2910 | 0.0508 | 0.0473 | -0.1153 | -0.0245 | 0.0096 |
| | | 216 | -6.2773 | 0.0508 | 0.1410 | 0.1106 | 0.0974 | 0.0096 |
| | 8 | 213 | -6.1442 | -0.0683 | 0.0070 | -0.0296 | 0.0378 | -0.0089 |
| | | 216 | -6.1303 | 0.0253 | 0.0070 | -0.0129 | -0.0138 | -0.0089 |
| 1214 | 6 | 214 | -4.7844 | 0.0017 | -0.0210 | 0.0288 | -0.0235 | 0.0078 |
| | | 217 | -4.7705 | 0.0017 | -0.0210 | -0.0217 | -0.0193 | 0.0078 |
| | 8 | 214 | -5.9585 | 0.0003 | 0.0112 | -0.0207 | -0.0044 | -0.0002 |
| | | 217 | -5.9446 | 0.0003 | 0.0112 | 0.0063 | -0.0037 | -0.0002 |
| 1215 | 6 | 215 | -6.5625 | -0.0830 | 0.0164 | -0.0265 | 0.0887 | -0.0006 |
| | | 218 | -6.5487 | -0.0830 | 0.1104 | 0.1262 | -0.1114 | -0.0006 |
| | 8 | 215 | -2.1586 | -0.1199 | 0.0078 | -0.0098 | 0.1231 | -0.0018 |
| | | 218 | -2.1447 | -0.0259 | 0.0078 | 0.0091 | -0.0525 | -0.0018 |
| 1216 | 6 | 216 | -8.1205 | -0.0947 | -0.1122 | 0.1158 | 0.0999 | 0.0079 |
| | | 219 | -8.1067 | -0.0947 | -0.0181 | -0.0412 | -0.1284 | 0.0079 |
| | 8 | 216 | -7.1925 | 0.0299 | 0.0180 | -0.0167 | -0.0126 | -0.0083 |
| | | 219 | -7.1786 | 0.1239 | 0.0179 | 0.0266 | 0.1728 | -0.0083 |
| 1217 | 6 | 217 | -3.1107 | 0.0062 | -0.0099 | -0.0113 | -0.0129 | 0.0032 |
| | | 220 | -3.0968 | 0.0062 | -0.0099 | -0.0353 | 0.0019 | 0.0032 |
| | 8 | 217 | -4.8764 | -0.0035 | -0.0081 | 0.0140 | -0.0055 | 0.0113 |
| | | 220 | -4.8625 | -0.0035 | -0.0081 | -0.0055 | -0.0139 | 0.0113 |
| 1218 | 6 | 218 | -7.9299 | 0.0949 | -0.1970 | 0.1383 | -0.1167 | 0.0005 |
| | | 221 | -7.9161 | 0.0949 | -0.1030 | -0.2233 | 0.1120 | 0.0005 |
| | 8 | 218 | -1.6593 | -0.0247 | 0.0002 | 0.0030 | -0.0474 | 0.0028 |
| | | 221 | -1.6454 | 0.0693 | 0.0002 | 0.0035 | 0.0063 | 0.0028 |
| 1219 | 6 | 219 | -8.1164 | 0.1121 | -0.0154 | -0.0425 | -0.1319 | 0.0118 |
| | | 222 | -8.1026 | 0.1121 | 0.0786 | 0.0337 | 0.1383 | 0.0118 |
| | 8 | 219 | -8.8576 | -0.2804 | 0.0207 | 0.0235 | 0.1940 | 0.0000 |
| | | 222 | -8.8437 | -0.1864 | 0.0207 | 0.0734 | -0.3684 | 0.0000 |
| 1220 | 6 | 220 | -1.9510 | 0.0018 | 0.0018 | -0.0269 | -0.0025 | 0.0067 |
| | | 223 | -1.9371 | 0.0018 | 0.0019 | -0.0225 | 0.0017 | 0.0067 |
| | 8 | 220 | -5.3351 | -0.0059 | 0.0053 | -0.0066 | -0.0125 | 0.0190 |
| | | 223 | -5.3211 | -0.0059 | 0.0053 | 0.0062 | -0.0266 | 0.0190 |
| 1221 | 6 | 221 | -7.7860 | -0.0943 | 0.1019 | -0.2235 | 0.1146 | 0.0042 |
| | | 224 | -7.7722 | -0.0943 | 0.1959 | 0.1354 | -0.1127 | 0.0042 |
| | 8 | 221 | -0.5349 | -0.0792 | -0.0074 | 0.0024 | 0.0153 | 0.0129 |
| | | 224 | -0.5210 | 0.0147 | -0.0074 | -0.0155 | -0.0624 | 0.0129 |
| 1222 | 6 | 222 | -9.3579 | -0.1059 | -0.0949 | 0.0401 | 0.1414 | 0.0092 |
| | | 225 | -9.3441 | -0.1058 | -0.0009 | -0.0753 | -0.1137 | 0.0092 |
| | 8 | 222 | -9.7495 | 0.1893 | -0.0305 | 0.0771 | -0.3670 | 0.0180 |
| | | 225 | -9.7355 | 0.2832 | -0.0305 | 0.0035 | 0.2024 | 0.0180 |
| 1223 | 6 | 223 | -0.8872 | -0.0034 | -0.0054 | -0.0149 | 0.0045 | 0.0038 |
| | | 226 | -0.8733 | -0.0034 | -0.0054 | -0.0278 | -0.0038 | 0.0038 |
| | 8 | 223 | -4.3569 | -0.0036 | -0.0076 | 0.0102 | -0.0159 | 0.0320 |
| | | 226 | -4.3430 | -0.0036 | -0.0076 | -0.0080 | -0.0247 | 0.0320 |
| 1224 | 6 | 224 | -8.6596 | 0.0883 | -0.1192 | 0.1308 | -0.1123 | 0.0049 |
| | | 227 | -8.6457 | 0.0883 | -0.0252 | -0.0433 | 0.1004 | 0.0049 |
| | 8 | 224 | -0.0625 | 0.0028 | 0.0044 | -0.0192 | -0.0624 | 0.0187 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 227 | -0.0485 | 0.0968 | 0.0044 | -0.0086 | 0.0576 | 0.0187 |
| 1225 | 6 | 225 | -9.3609 | 0.0753 | 0.0044 | -0.0730 | -0.1134 | 0.0141 |
| | | 228 | -9.3471 | 0.0753 | 0.0984 | 0.0509 | 0.0680 | 0.0141 |
| | 8 | 225 | -10.0408 | -0.1479 | -0.0277 | 0.0082 | 0.1890 | 0.0254 |
| | | 228 | -10.0268 | -0.0539 | -0.0277 | -0.0586 | -0.0540 | 0.0254 |
| 1226 | 6 | 226 | -0.2323 | -0.0029 | -0.0050 | -0.0240 | -0.0056 | 0.0058 |
| | | 229 | -0.2183 | -0.0029 | -0.0050 | -0.0360 | -0.0125 | 0.0058 |
| | 8 | 226 | -4.7774 | -0.0028 | 0.0007 | -0.0066 | -0.0223 | 0.0411 |
| | | 229 | -4.7635 | -0.0028 | 0.0007 | -0.0049 | -0.0292 | 0.0411 |
| 1227 | 6 | 227 | -8.6089 | -0.0756 | -0.0249 | -0.0406 | 0.1040 | 0.0039 |
| | | 230 | -8.5951 | -0.0756 | 0.0691 | 0.0128 | -0.0782 | 0.0039 |
| | 8 | 227 | -0.1752 | -0.1021 | 0.0012 | -0.0118 | 0.0572 | 0.0232 |
| | | 230 | -0.1612 | -0.0081 | 0.0011 | -0.0091 | -0.0755 | 0.0232 |
| 1228 | 6 | 228 | -10.2249 | -0.0381 | -0.0923 | 0.0506 | 0.0677 | 0.0178 |
| | | 231 | -10.2110 | -0.0381 | 0.0017 | -0.0587 | -0.0241 | 0.0178 |
| | 8 | 228 | -11.0212 | -0.0224 | 0.0324 | -0.0539 | -0.0520 | 0.0292 |
| | | 231 | -11.0072 | 0.0716 | 0.0324 | 0.0242 | 0.0072 | 0.0292 |
| 1229 | 6 | 229 | 0.5218 | 0.0070 | 0.0054 | -0.0293 | -0.0127 | 0.0085 |
| | | 232 | 0.5357 | 0.0070 | 0.0054 | -0.0162 | 0.0041 | 0.0085 |
| | 8 | 229 | -3.7323 | -0.0106 | -0.0245 | 0.0028 | -0.0220 | 0.0515 |
| | | 232 | -3.7184 | -0.0106 | -0.0245 | -0.0562 | -0.0476 | 0.0515 |
| 1230 | 6 | 230 | -9.1201 | 0.0031 | -0.0639 | 0.0134 | -0.0767 | 0.0061 |
| | | 233 | -9.1063 | 0.0031 | 0.0301 | -0.0272 | -0.0693 | 0.0061 |
| | 8 | 230 | 0.2714 | -0.0168 | 0.0060 | -0.0150 | -0.0732 | 0.0282 |
| | | 233 | 0.2854 | 0.0772 | 0.0059 | -0.0007 | -0.0005 | 0.0282 |
| 1231 | 6 | 231 | -10.1807 | 0.0420 | 0.0085 | -0.0598 | -0.0259 | 0.0281 |
| | | 234 | -10.1668 | 0.0420 | 0.1025 | 0.0740 | 0.0753 | 0.0281 |
| | 8 | 231 | -10.6558 | -0.0359 | 0.0328 | 0.0265 | 0.0016 | 0.0342 |
| | | 234 | -10.6418 | 0.0581 | 0.0328 | 0.1056 | 0.0283 | 0.0342 |
| 1232 | 6 | 232 | 0.7566 | 0.0117 | 0.0979 | -0.0049 | 0.0051 | 0.0249 |
| | | 235 | 0.7601 | 0.0117 | 0.0979 | 0.0548 | 0.0123 | 0.0249 |
| | 8 | 232 | -3.9221 | -0.1594 | 0.2883 | -0.0531 | -0.0360 | 0.0831 |
| | | 235 | -3.9186 | -0.1594 | 0.2883 | 0.1227 | -0.1333 | 0.0831 |
| 1233 | 6 | 233 | -9.0922 | 0.3276 | -0.2859 | -0.0265 | -0.0835 | 0.0170 |
| | | 236 | -9.0887 | 0.3276 | -0.2622 | -0.1937 | 0.1163 | 0.0170 |
| | 8 | 233 | 0.0761 | 0.2595 | -0.0331 | -0.0104 | -0.0099 | 0.0356 |
| | | 236 | 0.0796 | 0.2833 | -0.0331 | -0.0306 | 0.1556 | 0.0356 |
| 1234 | 6 | 234 | -10.5383 | -0.4255 | -0.3870 | 0.0829 | 0.0792 | 0.0657 |
| | | 237 | -10.5348 | -0.4255 | -0.3632 | -0.1459 | -0.1804 | 0.0657 |
| | 8 | 234 | -11.1448 | -0.1788 | -0.5987 | 0.1279 | 0.0288 | 0.0469 |
| | | 237 | -11.1413 | -0.1550 | -0.5987 | -0.2373 | -0.0730 | 0.0469 |
| 1235 | 6 | 235 | 0.7582 | 0.0117 | 0.0932 | 0.0550 | 0.0123 | 0.0249 |
| | | 238 | 0.7589 | 0.0117 | 0.0932 | 0.0662 | 0.0137 | 0.0249 |
| | 8 | 235 | -3.9192 | -0.1611 | 0.2874 | 0.1226 | -0.1331 | 0.0831 |
| | | 238 | -3.9185 | -0.1611 | 0.2874 | 0.1571 | -0.1524 | 0.0831 |
| 1236 | 6 | 236 | -9.0905 | 0.3269 | -0.2595 | -0.1937 | 0.1163 | 0.0171 |
| | | 239 | -9.0898 | 0.3269 | -0.2548 | -0.2246 | 0.1555 | 0.0171 |
| | 8 | 236 | 0.0803 | 0.2828 | -0.0319 | -0.0311 | 0.1556 | 0.0356 |
| | | 239 | 0.0810 | 0.2874 | -0.0319 | -0.0349 | 0.1898 | 0.0356 |
| 1237 | 6 | 237 | -10.5363 | -0.4242 | -0.3600 | -0.1460 | -0.1804 | 0.0657 |
| | | 240 | -10.5356 | -0.4242 | -0.3553 | -0.1889 | -0.2313 | 0.0657 |
| | 8 | 237 | -11.1421 | -0.1538 | -0.5951 | -0.2377 | -0.0730 | 0.0469 |
| | | 240 | -11.1414 | -0.1491 | -0.5951 | -0.3091 | -0.0912 | 0.0469 |
| 1238 | 6 | 238 | -0.5141 | 0.0020 | -0.1351 | 0.0770 | -0.0030 | -0.0176 |
| | | 241 | -0.5001 | 0.0020 | -0.1350 | -0.2485 | 0.0019 | -0.0176 |
| | 8 | 238 | 2.0466 | 0.0821 | -0.1087 | 0.1143 | -0.0617 | 0.2894 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 241 | 2.0606 | 0.0820 | -0.1087 | -0.1476 | 0.1360 | 0.2894 |
| 1239 | 6 | 239 | 2.8855 | -0.1144 | 0.1186 | -0.1412 | 0.2122 | -0.0055 |
| | | 242 | 2.8994 | -0.1144 | 0.2319 | 0.2812 | -0.0635 | -0.0055 |
| | 8 | 239 | 0.2016 | -0.1591 | 0.0616 | -0.0178 | 0.1287 | 0.0011 |
| | | 242 | 0.2157 | -0.0459 | 0.0616 | 0.1305 | -0.1183 | 0.0011 |
| 1240 | 6 | 240 | 1.4089 | 0.0953 | 0.1323 | -0.1835 | -0.1732 | 0.2788 |
| | | 243 | 1.4228 | 0.0953 | 0.2456 | 0.2719 | 0.0564 | 0.2788 |
| | 8 | 240 | -0.0565 | 0.0553 | 0.1210 | -0.2591 | -0.1192 | -0.0121 |
| | | 243 | -0.0424 | 0.1686 | 0.1210 | 0.0326 | 0.1506 | -0.0121 |
| 1241 | 6 | 241 | 0.0511 | -0.0058 | 0.2788 | -0.2771 | 0.0014 | -0.0029 |
| | | 244 | 0.0650 | -0.0058 | 0.2788 | 0.3920 | -0.0124 | -0.0029 |
| | 8 | 241 | 2.4654 | -0.1983 | 0.1191 | -0.1440 | 0.1601 | -0.2052 |
| | | 244 | 2.4793 | -0.1983 | 0.1191 | 0.1418 | -0.3159 | -0.2052 |
| 1242 | 6 | 242 | 4.0953 | -0.0283 | -0.3249 | 0.2948 | -0.0381 | -0.0048 |
| | | 245 | 4.1091 | -0.0283 | -0.2121 | -0.3497 | -0.1060 | -0.0048 |
| | 8 | 242 | 0.9756 | 0.0757 | -0.1582 | 0.1475 | -0.1263 | 0.0010 |
| | | 245 | 0.9896 | 0.1885 | -0.1582 | -0.2323 | 0.1907 | 0.0010 |
| 1243 | 6 | 243 | 2.9472 | 0.0322 | -0.3144 | 0.2858 | 0.0248 | -0.2024 |
| | | 246 | 2.9610 | 0.0322 | -0.2016 | -0.3334 | 0.1021 | -0.2024 |
| | 8 | 243 | 1.2804 | -0.1504 | 0.0484 | 0.0043 | 0.1403 | -0.0077 |
| | | 246 | 1.2944 | -0.0376 | 0.0484 | 0.1205 | -0.0853 | -0.0077 |
| 1244 | 6 | 244 | -5.8468 | -0.0094 | -0.1114 | 0.3678 | 0.0053 | 0.0163 |
| | | 247 | -5.8329 | -0.0094 | -0.1114 | 0.0994 | -0.0174 | 0.0163 |
| | 8 | 244 | 1.1590 | 0.1467 | -0.0242 | 0.1308 | -0.3273 | -0.1221 |
| | | 247 | 1.1729 | 0.1467 | -0.0242 | 0.0726 | 0.0262 | -0.1221 |
| 1245 | 6 | 245 | 4.8862 | 0.1240 | 0.0762 | -0.3721 | -0.1261 | 0.0267 |
| | | 248 | 4.9002 | 0.1240 | 0.1895 | -0.0519 | 0.1728 | 0.0267 |
| | 8 | 245 | -2.8040 | -0.0847 | 0.0693 | -0.2451 | 0.1645 | 0.0232 |
| | | 248 | -2.7900 | 0.0285 | 0.0693 | -0.0780 | 0.0967 | 0.0232 |
| 1246 | 6 | 246 | 3.8374 | -0.1128 | 0.0088 | -0.3325 | 0.1213 | -0.1167 |
| | | 249 | 3.8514 | -0.1128 | 0.1221 | -0.1747 | -0.1506 | -0.1167 |
| | 8 | 246 | 3.2677 | -0.0662 | -0.0853 | 0.1396 | -0.0975 | 0.0168 |
| | | 249 | 3.2818 | 0.0470 | -0.0853 | -0.0660 | -0.1207 | 0.0168 |
| 1247 | 6 | 247 | -7.8211 | 0.2406 | -4.6625 | 0.2544 | -0.0085 | 0.0325 |
| | | 507 | -7.8183 | 0.2406 | -4.6625 | -1.9836 | 0.1069 | 0.0325 |
| | 8 | 247 | 0.6336 | 2.9919 | -1.4558 | 0.1411 | -0.0517 | -0.0696 |
| | | 507 | 0.6364 | 2.9919 | -1.4558 | -0.5577 | 1.3844 | -0.0696 |
| 1248 | 6 | 248 | 5.0303 | 0.4660 | 4.0090 | -0.1969 | 0.1986 | -0.0021 |
| | | 509 | 5.0332 | 0.4660 | 4.0316 | 1.7328 | 0.4223 | -0.0021 |
| | 8 | 248 | -4.1733 | -2.3046 | 3.3215 | -0.1860 | 0.1709 | 0.0145 |
| | | 509 | -4.1706 | -2.2821 | 3.3215 | 1.4083 | -0.9299 | 0.0145 |
| 1249 | 6 | 249 | 3.9205 | -0.6138 | 4.8746 | -0.3254 | -0.1767 | -0.0391 |
| | | 508 | 3.9233 | -0.6138 | 4.8971 | 2.0198 | -0.4713 | -0.0391 |
| | 8 | 249 | 4.1192 | 1.6481 | -1.3421 | -0.0506 | -0.2075 | 0.0062 |
| | | 508 | 4.1220 | 1.6707 | -1.3421 | -0.6948 | 0.5890 | 0.0062 |
| 1250 | 6 | 250 | -2.3588 | 0.0621 | -0.3478 | 0.6057 | -0.0865 | 0.0124 |
| | | 253 | -2.3449 | 0.0621 | -0.3478 | -0.2326 | 0.0632 | 0.0124 |
| | 8 | 250 | 0.0675 | 0.3480 | -0.1768 | 0.2933 | -0.6226 | -0.0140 |
| | | 253 | 0.0814 | 0.3480 | -0.1768 | -0.1327 | 0.2160 | -0.0140 |
| 1251 | 6 | 251 | 1.6226 | 0.0108 | 0.4023 | -0.8005 | -0.0534 | 0.0068 |
| | | 254 | 1.6364 | 0.0108 | 0.5108 | 0.2998 | -0.0273 | 0.0068 |
| | 8 | 251 | -1.6980 | -0.2192 | 0.2991 | -0.5237 | 0.2876 | 0.0001 |
| | | 254 | -1.6840 | -0.1107 | 0.2991 | 0.1970 | -0.1099 | 0.0001 |
| 1252 | 6 | 252 | 0.8944 | -0.0077 | 0.3101 | -0.7499 | 0.0715 | -0.0101 |
| | | 255 | 0.9082 | -0.0077 | 0.4185 | 0.1281 | 0.0530 | -0.0101 |
| | 8 | 252 | 1.0291 | 0.1633 | -0.1174 | 0.2241 | -0.3607 | -0.2216 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 255 | 1.0431 | 0.2717 | -0.1174 | -0.0588 | 0.1635 | -0.2216 |
| 1253 | 6 | 253 | -1.7390 | -0.0603 | 0.0794 | -0.1585 | 0.0709 | 0.0131 |
| | | 256 | -1.7251 | -0.0603 | 0.0794 | 0.0328 | -0.0744 | 0.0131 |
| | 8 | 253 | -0.3714 | -0.0943 | 0.0633 | -0.1061 | 0.1906 | -0.0024 |
| | | 256 | -0.3575 | -0.0943 | 0.0633 | 0.0464 | -0.0368 | -0.0024 |
| 1254 | 6 | 254 | 0.3229 | 0.0325 | -0.1713 | 0.2558 | -0.0241 | -0.0173 |
| | | 257 | 0.3367 | 0.0324 | -0.0628 | -0.0263 | 0.0541 | -0.0173 |
| | 8 | 254 | -1.6446 | 0.0012 | -0.0926 | 0.1591 | -0.0692 | -0.0012 |
| | | 257 | -1.6306 | 0.1096 | -0.0927 | -0.0642 | 0.0643 | -0.0012 |
| 1255 | 6 | 255 | 0.5500 | -0.0428 | -0.0584 | 0.0928 | 0.0470 | -0.0171 |
| | | 258 | 0.5639 | -0.0428 | 0.0501 | 0.0828 | -0.0561 | -0.0171 |
| | 8 | 255 | 0.9692 | -0.1233 | 0.0258 | -0.0550 | 0.1457 | 0.1421 |
| | | 258 | 0.9832 | -0.0148 | 0.0258 | 0.0072 | -0.0207 | 0.1421 |
| 1256 | 6 | 256 | -0.9971 | 0.0405 | -0.0209 | 0.0306 | -0.0654 | 0.0071 |
| | | 259 | -0.9831 | 0.0405 | -0.0208 | -0.0196 | 0.0322 | 0.0071 |
| | 8 | 256 | -0.1325 | 0.0158 | -0.0314 | 0.0509 | -0.0395 | -0.0082 |
| | | 259 | -0.1185 | 0.0158 | -0.0314 | -0.0247 | -0.0015 | -0.0082 |
| 1257 | 6 | 257 | 0.3818 | -0.0379 | -0.0361 | -0.0178 | 0.0553 | -0.0496 |
| | | 260 | 0.3956 | -0.0379 | 0.0724 | 0.0259 | -0.0360 | -0.0496 |
| | 8 | 257 | -0.7390 | -0.0803 | 0.0246 | -0.0456 | 0.0630 | -0.0067 |
| | | 260 | -0.7250 | 0.0281 | 0.0246 | 0.0137 | 0.0001 | -0.0067 |
| 1258 | 6 | 258 | 0.2491 | 0.0379 | -0.1089 | 0.0884 | -0.0567 | -0.0315 |
| | | 261 | 0.2630 | 0.0379 | -0.0004 | -0.0432 | 0.0347 | -0.0315 |
| | 8 | 258 | 0.5812 | -0.0355 | 0.0042 | 0.0005 | -0.0173 | 0.0350 |
| | | 261 | 0.5952 | 0.0729 | 0.0042 | 0.0108 | 0.0277 | 0.0350 |
| 1259 | 6 | 259 | -0.2466 | -0.0145 | 0.0318 | -0.0073 | 0.0360 | 0.0079 |
| | | 262 | -0.2326 | -0.0145 | 0.0318 | 0.0693 | 0.0010 | 0.0079 |
| | 8 | 259 | -0.2088 | 0.0363 | 0.0002 | -0.0097 | -0.0097 | -0.0045 |
| | | 262 | -0.1948 | 0.0363 | 0.0002 | -0.0093 | 0.0779 | -0.0045 |
| 1260 | 6 | 260 | -0.0716 | 0.0053 | -0.0612 | 0.0244 | -0.0234 | -0.1035 |
| | | 263 | -0.0577 | 0.0053 | 0.0473 | 0.0076 | -0.0106 | -0.1035 |
| | 8 | 260 | -0.2882 | -0.0519 | -0.0060 | 0.0122 | 0.0127 | -0.0031 |
| | | 263 | -0.2743 | 0.0566 | -0.0061 | -0.0024 | 0.0184 | -0.0031 |
| 1261 | 6 | 261 | 0.0296 | -0.0112 | -0.0093 | -0.0338 | 0.0272 | 0.0347 |
| | | 264 | 0.0435 | -0.0112 | 0.0991 | 0.0743 | 0.0002 | 0.0347 |
| | 8 | 261 | 0.0682 | -0.0404 | -0.0001 | 0.0068 | 0.0192 | 0.0618 |
| | | 264 | 0.0822 | 0.0680 | -0.0001 | 0.0065 | 0.0524 | 0.0618 |
| 1262 | 6 | 262 | -0.0889 | 0.0000 | -0.1282 | 0.0936 | 0.0000 | 0.0000 |
| | | 265 | -0.0854 | 0.0000 | -0.1282 | 0.0153 | 0.0000 | 0.0000 |
| | 8 | 262 | -0.0886 | -0.1145 | 0.0011 | -0.0004 | 0.0836 | 0.0000 |
| | | 265 | -0.0851 | -0.1145 | 0.0011 | 0.0003 | 0.0137 | 0.0000 |
| 1263 | 6 | 263 | -0.0139 | 0.0000 | -0.0599 | 0.0317 | 0.0000 | 0.0000 |
| | | 266 | -0.0104 | 0.0000 | -0.0324 | 0.0036 | 0.0000 | 0.0000 |
| | 8 | 263 | -0.0137 | -0.0462 | 0.0009 | -0.0003 | 0.0218 | 0.0000 |
| | | 266 | -0.0102 | -0.0188 | 0.0009 | 0.0003 | 0.0020 | 0.0000 |
| 1264 | 6 | 264 | -0.0641 | 0.0000 | -0.1099 | 0.0683 | 0.0000 | 0.0000 |
| | | 267 | -0.0606 | 0.0000 | -0.0825 | 0.0096 | 0.0000 | 0.0000 |
| | 8 | 264 | -0.0636 | -0.0959 | 0.0022 | -0.0007 | 0.0582 | 0.0000 |
| | | 267 | -0.0601 | -0.0685 | 0.0022 | 0.0007 | 0.0081 | 0.0000 |
| 1265 | 6 | 265 | -0.0872 | 0.0000 | -0.1257 | 0.0152 | 0.0000 | 0.0000 |
| | | 268 | -0.0865 | 0.0000 | -0.1257 | 0.0001 | 0.0000 | 0.0000 |
| | 8 | 265 | -0.0851 | -0.1108 | 0.0031 | -0.0002 | 0.0135 | 0.0000 |
| | | 268 | -0.0844 | -0.1108 | 0.0031 | 0.0002 | 0.0002 | 0.0000 |
| 1266 | 6 | 266 | -0.0098 | 0.0000 | -0.0291 | 0.0034 | 0.0000 | 0.0000 |
| | | 269 | -0.0091 | 0.0000 | -0.0237 | 0.0002 | 0.0000 | 0.0000 |
| | 8 | 266 | -0.0094 | -0.0179 | 0.0027 | -0.0002 | 0.0019 | 0.0000 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 269 | -0.0087 | -0.0125 | 0.0027 | 0.0002 | 0.0001 | 0.0000 |
| 1267 | 6 | 267 | -0.0589 | 0.0000 | -0.0808 | 0.0095 | 0.0000 | 0.0000 |
| | | 270 | -0.0583 | 0.0000 | -0.0754 | 0.0001 | 0.0000 | 0.0000 |
| | 8 | 267 | -0.0606 | -0.0687 | 0.0052 | -0.0003 | 0.0079 | 0.0000 |
| | | 270 | -0.0599 | -0.0633 | 0.0052 | 0.0003 | 0.0000 | 0.0000 |

2 N O D E C A B L E E L E M E N T -- F O R C E S A N D T E N S I O N S

| ELEM NO | LOAD COMB | NODE NO | COORDINATE SYSTEM : GLOBAL FORCE X | FORCE Y | FORCE Z | TENSION |
|---|---|---|---|---|---|---|
| Units: | | | K | K | K | K |
| 2001 | 6 | 2001 | 0.0000 | 0.9635 | -0.3746 | 1.0338 |
| | | 2501 | 0.0000 | -0.9635 | 0.4734 | 1.0735 |
| | 8 | 2001 | -0.0009 | 5.3295 | -2.2928 | 5.8018 |
| | | 2501 | 0.0009 | -5.3295 | 2.3916 | 5.8415 |
| 2002 | 6 | 2002 | 6.8923 | -3.9964 | -3.4584 | 8.6854 |
| | | 2502 | -6.8923 | 3.9964 | 3.5569 | 8.7251 |
| | 8 | 2002 | 0.9374 | -0.5436 | -0.4285 | 1.1653 |
| | | 2502 | -0.9374 | 0.5436 | 0.5270 | 1.2050 |
| 2003 | 6 | 2003 | -6.9046 | -4.0037 | -3.4647 | 8.7010 |
| | | 2503 | 6.9046 | 4.0037 | 3.5632 | 8.7407 |
| | 8 | 2003 | -8.4250 | -4.8723 | -4.2355 | 10.6141 |
| | | 2503 | 8.4250 | 4.8723 | 4.3340 | 10.6538 |
| 2011 | 6 | 2001 | 0.0383 | 0.4904 | -0.4131 | 0.6423 |
| | | 3001 | -0.0383 | -0.4904 | 0.5349 | 0.7267 |
| | 8 | 2001 | 0.1912 | 2.4962 | -2.3402 | 3.4270 |
| | | 3001 | -0.1912 | -2.4962 | 2.4620 | 3.5113 |
| 2012 | 6 | 2001 | -0.0383 | 0.4898 | -0.4125 | 0.6414 |
| | | 3002 | 0.0383 | -0.4898 | 0.5343 | 0.7258 |
| | 8 | 2001 | -0.2392 | 3.0183 | -2.8439 | 4.1539 |
| | | 3002 | 0.2392 | -3.0183 | 2.9658 | 4.2383 |
| 2013 | 6 | 2002 | 4.1411 | -2.8558 | -4.7670 | 6.9303 |
| | | 3003 | -4.1411 | 2.8558 | 4.8888 | 7.0146 |
| | 8 | 2002 | 0.5024 | -0.3460 | -0.5271 | 0.8062 |
| | | 3003 | -0.5024 | 0.3460 | 0.6488 | 0.8906 |
| 2014 | 6 | 2002 | 3.4914 | -1.6784 | -3.6579 | 5.3279 |
| | | 3004 | -3.4914 | 1.6784 | 3.7797 | 5.4123 |
| | 8 | 2002 | 0.4429 | -0.2123 | -0.4130 | 0.6417 |
| | | 3004 | -0.4429 | 0.2123 | 0.5347 | 0.7261 |
| 2015 | 6 | 2003 | -4.1731 | -2.8778 | -4.8042 | 6.9840 |
| | | 3006 | 4.1731 | 2.8778 | 4.9260 | 7.0683 |
| | 8 | 2003 | -3.8957 | -2.6728 | -4.4727 | 6.5058 |
| | | 3006 | 3.8957 | 2.6728 | 4.5945 | 6.5901 |
| 2016 | 6 | 2003 | -3.5392 | -1.7014 | -3.7088 | 5.4015 |
| | | 3005 | 3.5392 | 1.7014 | 3.8306 | 5.4858 |
| | 8 | 2003 | -5.4133 | -2.5870 | -5.6955 | 8.2726 |
| | | 3005 | 5.4133 | 2.5870 | 5.8172 | 8.3568 |
| 2021 | 6 | 2001 | 0.0246 | 0.3153 | -0.3449 | 0.4679 |
| | | 4001 | -0.0246 | -0.3153 | 0.4564 | 0.5553 |
| | 8 | 2001 | 0.1064 | 1.3893 | -1.6984 | 2.1968 |
| | | 4001 | -0.1064 | -1.3893 | 1.8099 | 2.2841 |
| 2022 | 6 | 2001 | -0.0253 | 0.3238 | -0.3556 | 0.4816 |
| | | 4002 | 0.0253 | -0.3238 | 0.4671 | 0.5689 |
| | 8 | 2001 | -0.1379 | 1.7408 | -2.1423 | 2.7639 |
| | | 4002 | 0.1379 | -1.7408 | 2.2539 | 2.8512 |
| 2023 | 6 | 2002 | 2.4046 | -1.6594 | -3.6243 | 4.6553 |
| | | 4003 | -2.4046 | 1.6594 | 3.7358 | 4.7426 |

$9/16''\phi$ BRK. STR. = 35$^k$

S.F. = $\frac{35^k}{10.65}$ > 2.0 ✓ O.K.

$\frac{1}{2}''\phi$ B.S. = 26.9$^k$

S.F. = $\frac{26.9^k}{4.74^k}$ 7.20 ✓ O.K.

| | | | | | | |
|---|---|---|---|---|---|---|
| | 8 | 2002 | 0.3376 | -0.2324 | -0.4632 | 0.6185 |
| | | 4003 | -0.3376 | 0.2324 | 0.5746 | 0.7059 |
| 2024 | 6 | 2002 | 2.4771 | -1.1917 | -3.4079 | 4.3784 |
| | | 4004 | -2.4771 | 1.1917 | 3.5194 | 4.4657 |
| | 8 | 2002 | 0.3212 | -0.1539 | -0.3956 | 0.5323 |
| | | 4004 | -0.3212 | 0.1539 | 0.5071 | 0.6197 |
| 2025 | 6 | 2003 | -2.4985 | -1.7243 | -3.7677 | 4.8385 |
| | | 4006 | 2.4985 | 1.7243 | 3.8791 | 4.9258 |
| | 8 | 2003 | -1.9827 | -1.3600 | -2.9736 | 3.8241 |
| | | 4006 | 1.9827 | 1.3600 | 3.0851 | 3.9114 |
| 2026 | 6 | 2003 | -2.2937 | -1.1036 | -3.1519 | 4.0513 |
| | | 4005 | 2.2937 | 1.1036 | 3.2633 | 4.1386 |
| | 8 | 2003 | -2.5568 | -1.2213 | -3.5137 | 4.5139 |
| | | 4005 | 2.5568 | 1.2213 | 3.6252 | 4.6011 |

R E A C T I O N S

(* Indicates Reactions Occur in Nodal Local System)

| NODE NO | LOAD COMB | PX | PY | PZ | MX | MY | MZ |
|---|---|---|---|---|---|---|---|
| Units: | | K | K | K | K -Ft | K -Ft | K -Ft |
| 301 | 6 | 0.0032 | -0.5309 | 52.7735 | 0.0000 | 0.0000 | 0.1229 |
| | 8 | -0.4610 | -0.0358 | 47.1548 | 0.0000 | 0.0000 | -2.7313 |
| 2001 | 6 | -0.0006 | 2.5827 | -1.9006 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | -0.0804 | 13.9740 | -11.3177 | 0.0000 | 0.0000 | 0.0000 |
| 2002 | 6 | 19.4064 | -11.3818 | -18.9156 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 2.5416 | -1.4883 | -2.2273 | 0.0000 | 0.0000 | 0.0000 |
| 2003 | 6 | -19.4090 | -11.4108 | -18.8972 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | -22.2736 | -12.7134 | -20.8910 | 0.0000 | 0.0000 | 0.0000 |

**H. E. BERGERON ENGINEERS, P.A.**
2605 White Mountain Highway, PO Box 440
North Conway, NH 03860
(603) 356-6936

Client: **WFI**
Job: **Madison, CT** Job No.: **97058B**

Calculated By: **J. Klementovich** Date: **23-Aug-00**
Checked By: Date:

## *Evaluation of Compression Leg Members*

| Section | Element | Size | area | Iu | $r_z$ | Fy | $Kl/r_z$ | Cc |
|---|---|---|---|---|---|---|---|---|
| 0-20 | 1001-1024 | 2.5" Std. | 1.7 | 57.8 | 0.95 | 50 | 60.8 | 107.00 |
| 20-40 | 1025-1054 | 2.5" Std. | 1.7 | 57.8 | 0.95 | 50 | 60.8 | 107.00 |
| 40-60 | 1055-1084 | 2.5" Std. | 1.7 | 57.8 | 0.95 | 50 | 60.8 | 107.00 |
| 60-80 | 1085-1114 | 2.5" Std. | 1.7 | 57.8 | 0.95 | 50 | 60.8 | 107.00 |
| 80-100 | 1115-1144 | 2.5" Std. | 1.7 | 57.8 | 0.95 | 50 | 60.8 | 107.00 |
| 100-120 | 1145-1174 | 2.5" Std. | 1.7 | 57.8 | 0.95 | 50 | 60.8 | 107.00 |
| 120-140 | 1175-1204 | 2.5" Std. | 1.7 | 28.9 | 0.95 | 50 | 30.4 | 107.00 |
| 140-160 | 1205-1234 | 2.5" Std. | 1.7 | 57.8 | 0.95 | 50 | 60.8 | 107.00 |
| 160-180 | 1235-1267 | 2.5" Std. | 1.7 | 28.9 | 0.95 | 50 | 30.4 | 107.00 |

## *Evaluation of Compression Leg Members*

| Section | Axial Load | fa | 1.33 Increase | Capacity |
|---|---|---|---|---|
| 0-20 | 18.6 | 22.57 | 30.02 | 36% |
| 20-40 | 19.68 | 22.57 | 30.02 | 39% |
| 40-60 | 31.34 | 22.57 | 30.02 | 61% |
| 60-80 | 31.33 | 22.57 | 30.02 | 61% |
| 80-100 | 26.62 | 22.57 | 30.02 | 52% |
| 100-120 | 26.91 | 22.57 | 30.02 | 53% |
| 120-140 | 24.40 | 27.10 | 36.04 | 40% |
| 140-160 | 10.54 | 22.57 | 30.02 | 21% |
| 160-180 | 11.14 | 27.10 | 36.04 | 18% |

**H. E. BERGERON ENGINEERS, P.A.**
2605 White Mountain Highway, PO Box 440
North Conway, NH 03860
(603) 356-6936

Client: **WFI**
Job: **Madison, CT** Job No.: **2000-043**

Calculated By: **J. Klementovich** Date: **21-Aug-00**
Checked By: Date:

## *Evaluation of Diagonal Compression Bracing Members*

| Section | Element | Size | area | Iu | $r_v$ | Fy | $Kl/r_v$ | Cc |
|---|---|---|---|---|---|---|---|---|
| 0-20 | 1-24 | 1 1/2" 16 Ga. | 0.29 | 44.6 | 0.51 | 36 | 87.5 | 126.10 |
| 20-40 | 25-54 | 1 1/2" 16 Ga. | 0.29 | 44.6 | 0.51 | 36 | 87.5 | 126.10 |
| 40-60 | 55-84 | 1 1/2" 16 Ga. | 0.29 | 44.6 | 0.51 | 36 | 87.5 | 126.10 |
| 60-80 | 85-114 | 1 1/2" 16 Ga. | 0.29 | 44.6 | 0.51 | 36 | 87.5 | 126.10 |
| 80-100 | 115-144 | 1 1/2" 16 Ga. | 0.29 | 44.6 | 0.51 | 36 | 87.5 | 126.10 |
| 100-120 | 145-174 | 1 1/2" 16 Ga. | 0.29 | 44.6 | 0.51 | 36 | 87.5 | 126.10 |
| 120-140 | 175-228 | 1 1/2"x1 1/2"x3/16 angle | 0.53 | 44.6 | 0.457 | 36 | 97.7 | 126.10 |
| 140-160 | 229-258 | 1 1/2" 16 Ga. | 0.29 | 44.6 | 0.51 | 36 | 87.5 | 126.10 |
| 160-180 | 259-312 | 1 1/2"x1 1/2"x3/16 angle | 0.53 | 44.6 | 0.457 | 36 | 97.7 | 126.10 |
| | | | | | | | #DIV/0! | #DIV/0! |

## *Member Capacity*

| Section | Axial Load | Fa | 1.33 Increase | Capacity |
|---|---|---|---|---|
| 0-20 | 1.29 | 14.50 | 19.28 | 23% |
| 20-40 | 1.05 | 14.50 | 19.28 | 19% |
| 40-60 | 2.31 | 14.50 | 19.28 | 41% |
| 60-80 | 4.06 | 14.50 | 19.28 | 73% |
| 80-100 | 1.30 | 14.50 | 19.28 | 23% |
| 100-120 | 3.50 | 14.50 | 19.28 | 63% |
| 120-140 | 4.67 | 13.27 | 17.65 | 50% |
| 140-160 | 2.27 | 14.50 | 19.28 | 41% |
| 160-180 | 3.31 | 13.27 | 17.65 | 36% |
| 0 | | #DIV/0! | #DIV/0! | #DIV/0! |

ricochet™
METRICOM, Inc.

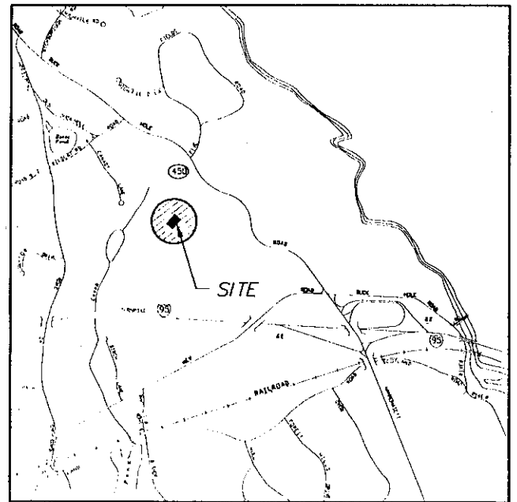
# CL&P TOWER

# NYC0016-A

# 135 NEW ROAD

# MADISON, CONNECTICUT 06443

# LATITUDE 41°,17',35", LONGITUDE 72°,34',42"




LOCATION MAP SCALE: 1"=1000' NORTH

-TAKE I-95 NORTH TO EXIT 62.
-GO NORTH OFF EXIT RAMP 1/4 MILE.
-TAKE LEFT ON NEW ROAD.
-CL&P IS ON THE RIGHT AND THE TOWER IS IN THE REAR.

## DRIVING DIRECTIONS

THIS IS AN APPLICATION FOR AN:
UNMANNED WIRELESS DATA FACILITY CONSISTING OF WIRELESS DATA EQUIPMENT, AN EQUIPMENT PLATFORM, CONNECTING CABLES, AND DIRECTIONAL ANTENNAS. THE TOTAL NUMBER OF DIRECTIONAL WIRELESS DATA ANTENNAS SHALL NOT EXCEED 24. THE SIZE, HEIGHT, AND DIRECTION OF THE ANTENNAS SHALL BE ADJUSTED TO MEET SYSTEM REQUIREMENTS. RICOCHET IS A SERVICE OF METRICOM, INC. THAT PROVIDES WIRELESS ACCESS TO THE INTERNET VIA A WIRELESS MODEM. RICOCHET ALLOWS USERS THE FREEDOM AND FLEXIBILITY TO CONNECT TO THE INTERNET FROM WHEREVER THEY NEED TO ACCESS DATA.

## PROJECT DESCRIPTION

### APPLICANT/LESSEE

| | |
|---|---|
| APPLICANT/LESSEE | METRICOM, INC.<br>218 MIDDLESEX STREET<br>SUITE 201<br>HARRISON, NJ 07029 |

### PROPERTY INFORMATION

| | |
|---|---|
| OWNER:<br>ADDRESS | CL&P<br>135 NEW ROAD<br>MADISON, CONNECTICUT 06443 |
| CONTACT:<br>PHONE: | LINDA CAROL<br>(860) 665-6926 |
| AREA OF CONSTRUCTION: | 144 SQ. FT. |
| ASSESSOR'S PARCEL NO: | MAP 60, LOT 8 |
| DEED VOL/PAGE | VOL 139 / PAGE 397 |
| CURRENT ZONING: | RU-2 (RURAL RESIDENCE DISTRICT) |
| TYPE OF APPLICATION: | EXEMPT MODIFICATION |
| ZONING JURISDICTION: | CONNECTICUT SITING COUNCIL |
| HANDICAP REQUIREMENTS: | FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED. |

### PROJECT INFORMATION

| | |
|---|---|
| EQUIPMENT LOCATION: | ☐ OUTDOOR ☒ INDOOR |
| EQUIPMENT TYPE: | ☒ ISM ☐ WCS ☐ ISM/WCS |
| ANTENNA LOCATION: | ☒ GUY TOWER<br>☐ SELF SUPPORT TOWER<br>☐ EXISTING MONOPOLE ☐ MONOPOLE<br>☐ ROOF TOP<br>☒ EXISTING TOWER<br>☐ OTHER |
| PARAPET TYPE: | N/A |

## PROJECT SUMMARY

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. UNIFORM BUILDING CODE (UBC) 1997
2. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA) 1996
3. UNIFORM MECHANICAL CODE (UMC) 1997
4. NATIONAL ELECTRIC CODE (NEC) WITH LOCAL AMENDMENTS 1999
5. ANSI/EIA-222-F
6. LIFE SAFETY CODE NFPA-101-1990
7. AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS (AISC)
8. UNDERWRITER LABORATORIES APPROVED ELECTRICAL PRODUCTS
9. LOCAL BUILDING CODE
10. CITY/COUNTY ORDINANCES

## CODE COMPLIANCE

### ARCHITECT:

| | |
|---|---|
| CONSULTANT'S NAME | URS CORPORATION A.E.S. |
| ADDRESS | 500 ENTERPRISE DRIVE |
| CITY, STATE, ZIP | ROCKY HILL, CT 06067 |
| CONTACT: | DOUGLAS J. ROBERTS A.I.A. |
| PHONE: | (860) 529-8882 |

### STRUCTURAL ENGINEER:

| | |
|---|---|
| CONSULTANT'S NAME | H.E. BERGERON ENGINEERS, P.A. |
| ADDRESS | 2605 WHITE MOUNTAIN HIGHWAY |
| CITY, STATE, ZIP | NORTH CONWAY, NH 03860 |
| CONTACT: | N/A |
| PHONE: | (603) 356-5936 |

### ELECTRICAL ENGINEER:

| | |
|---|---|
| CONSULTANT'S NAME | URS CORPORATION A.E.S. |
| ADDRESS | 500 ENTERPRISE DRIVE |
| CITY, STATE, ZIP | ROCKY HILL, CT 06067 |
| CONTACT: | N. SUBRAMANIAN P.E. |
| PHONE: | (860) 529-8882 |

### SURVEYOR:

| | |
|---|---|
| CONSULTANT'S NAME | N/A |
| ADDRESS | N/A |
| CITY, STATE, ZIP | N/A |
| CONTACT: | N/A |
| PHONE: | N/A |

### TOWER ENGINEER:

| | |
|---|---|
| CONSULTANT'S NAME | N/A |
| ADDRESS | N/A |
| CITY, STATE, ZIP | N/A |
| CONTACT: | N/A |
| PHONE: | N/A |

## PROJECT TEAM

| SHEET | DESCRIPTION |
|---|---|
| T-1 | TITLE SHEET |
| SC-1 | SITE PLAN |
| SC-2 | PARTIAL SITE PLAN, TOWER ELEVATION AND ANTENNA LAYOUT |

## SHEET INDEX

| | TITLE | SIGNATURE | DATE |
|---|---|---|---|
| | MDCMC | | |
| | RF ENGINEER | | |
| | REAL ESTATE | | |
| | METRICOM GSA AREA MANAGER | | |
| | PROPERTY OWNER | | |
| | SITING COUNCIL APPROVAL | | |
| | CONSTRUCTION DIRECTOR | | |
| | ADDITIONAL APPROVAL | | |

## APPLICANT APPROVAL LIST

ricochet™
Network Operations
218 MIDDLESEX STREET, SUITE 201
HARRISON, NJ 07029

PROJECT INFORMATION:
CL&P TOWER
NYC0016-a
135 NEW ROAD
MADISON, CONNECTICUT 06443
NEW HAVEN COUNTY

CURRENT ISSUE DATE:
12/01/00

ISSUED FOR:
CT. SITING COUNCIL



| REV.: | DATE: | DESCRIPTION: |
|---|---|---|
| A | 11/15/00 | CLIENT REVIEW |
| B | 12/01/00 | FINAL |

PLANS PREPARED BY:
URS
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT. 06067
1-(860)-529-8882

CONSTRUCTION MANAGER:
WFI
the global leader
IN TELECOM OUTSOURCING

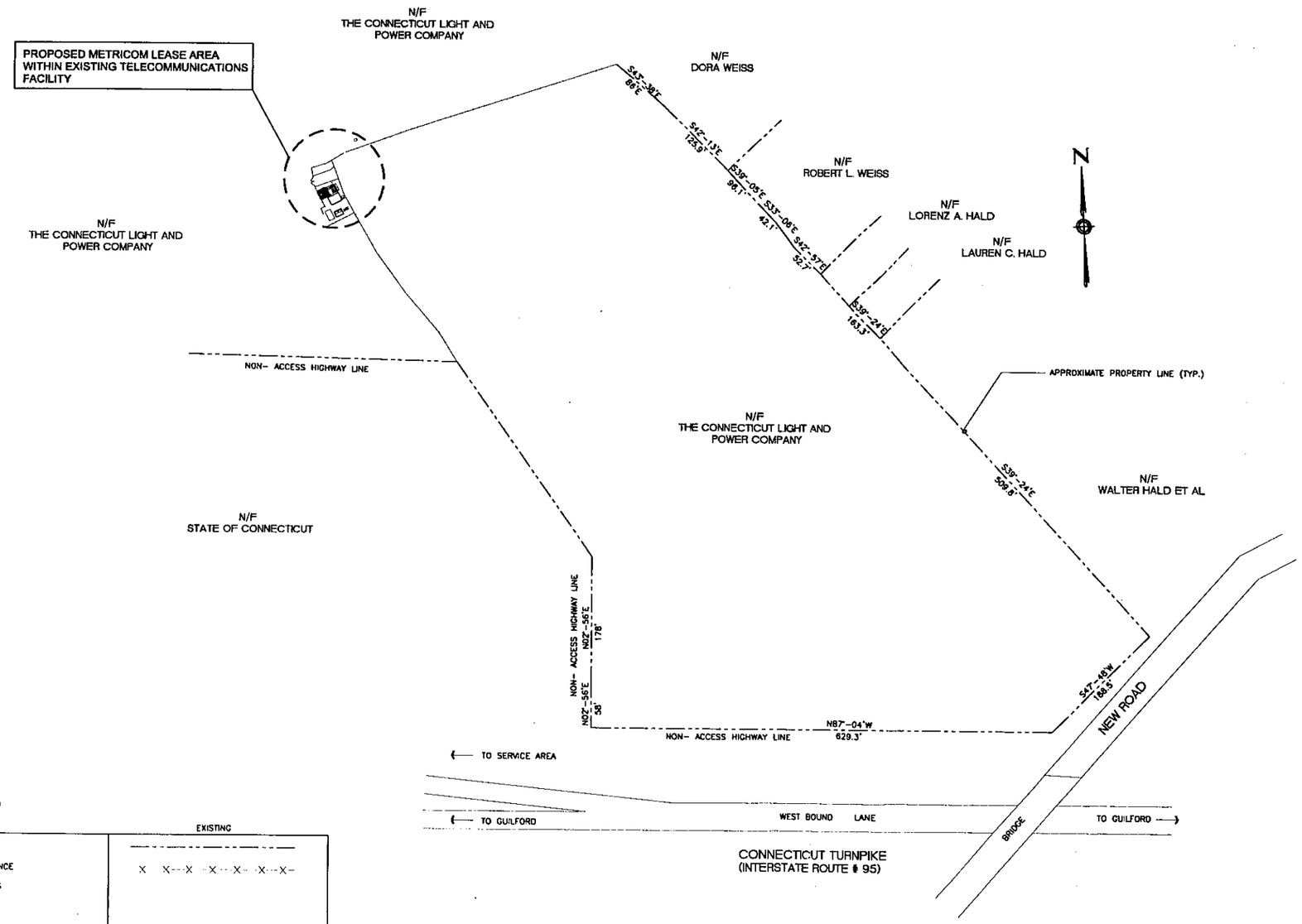
| DRAWN BY: | CHK.: | APV.: |
|---|---|---|
| JRM | | |

LICENSURE:
STATE OF CONNECTICUT DOUGLAS J. ROBERTS No. 13310 REGISTERED ARCHITECT

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: T-1
REVISION: B F03

URS PROJECT NO.
F30000194136




## LEGEND

| DESCRIPTIONS | EXISTING |
|---|---|
| PROPERTY LINE | |
| CHAIN LINK FENCE | X X--X X--X--X--X-- |
| CONTOUR LINES | |
| UTILITY POLE | |
| SEDIMENTATION FENCE | |
| TREE LINE | |
| SPOT ELEVATION | |

1 / SC-2 **SITE PLAN**
SCALE: 1"=80'-0"

NOTE:
DO NOT SCALE DRAWINGS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES, PROPERTY LINES AND THE TRUE NORTH ARE TO BE CONFIRMED BY SURVEYOR.

ricochet
Network Operations
218 MIDDLESEX STREET, SUITE 201
HARRISON, NJ 07029

PROJECT INFORMATION:

CL&P TOWER
NYC0016-a
135 NEW ROAD
MADISON, CONNECTICUT 06443
NEW HAVEN COUNTY

CURRENT ISSUE DATE:
12/01/00

ISSUED FOR:
CT. SITING COUNCIL



| REV. | DATE: | DESCRIPTION: |
|---|---|---|
| A | 11/16/00 | CLIENT REVIEW |
| B | 12/01/00 | FINAL |

PLANS PREPARED BY:
URS
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT. 06067
1-(860)-529-8882

CONSTRUCTION MANAGER:
WFI
the global leader
IN TELECOM OUTSOURCING

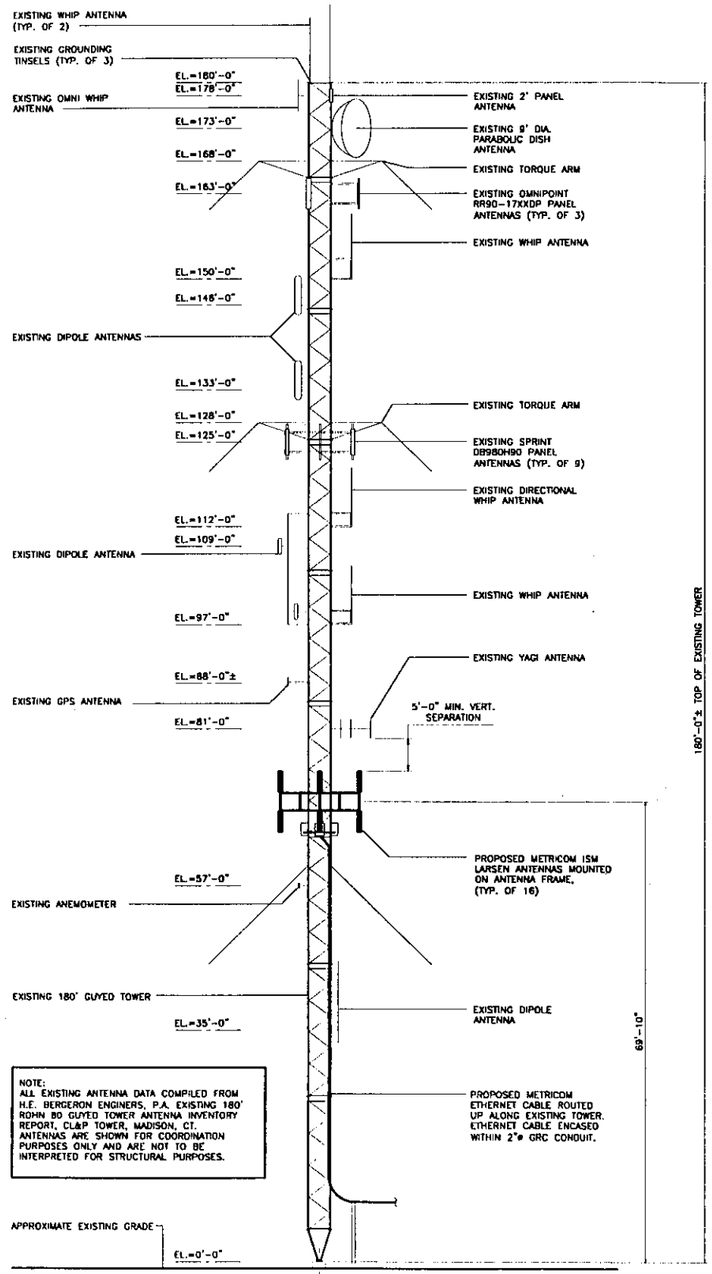
| DRAWN BY: | CHK.: | APV.: |
|---|---|---|
| JRM | | |

LICENSURE:
STATE OF CONNECTICUT
DOUGLAS J. ROBINSON
No. 8310
REGISTERED ARCHITECT

SHEET TITLE:
SITE PLAN

SHEET NUMBER: SC-1
REVISION: B F03

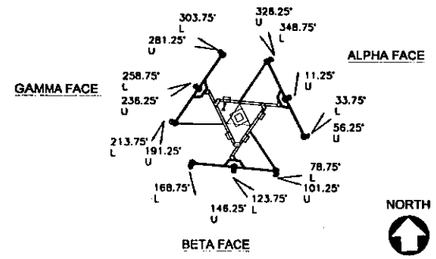
URS PROJECT NO.
F30000194136




NOTE:
ALL EXISTING ANTENNA DATA COMPILED FROM N.E. BERGERON ENGINERS, P.A. EXISTING 180' ROHN 80 GUYED TOWER ANTENNA INVENTORY REPORT, CL&P TOWER, MADISON, CT. ANTENNAS ARE SHOWN FOR COORDINATION PURPOSES ONLY AND ARE NOT TO BE INTERPRETED FOR STRUCTURAL PURPOSES.

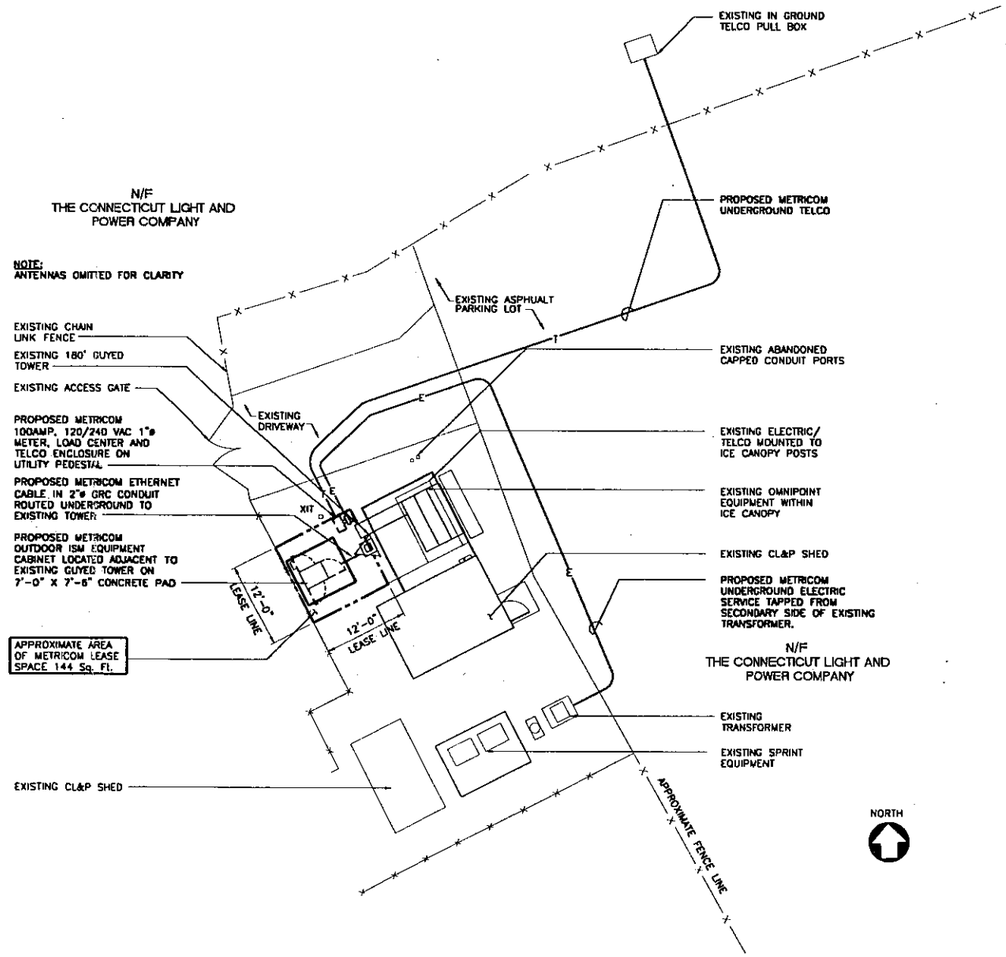
2 / SC-2 **TOWER ELEVATION**
SCALE: 1"=10'-0"

0 5 10 20




3 / SC-2 **ANTENNA LAYOUT**
SCALE: 1"=10'-0"

0 5 10 20




1 / SC-2 **PARTIAL SITE PLAN**
SCALE: 1"=10'-0"

0 5 10 20

NOTE:
DO NOT SCALE DRAWINGS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES, PROPERTY LINES AND THE TRUE NORTH ARE TO BE CONFIRMED BY SURVEYOR.

ricochet
Network Operations
218 MIDDLESEX STREET, SUITE 201
HARRISON, NJ 07029

PROJECT INFORMATION:

CL&P TOWER
NYC0016-a
135 NEW ROAD
MADISON, CONNECTICUT 06443
NEW HAVEN COUNTY

CURRENT ISSUE DATE:
12/01/00

ISSUED FOR:
CT. SITING COUNCIL



| REV.: | DATE: | DESCRIPTION: |
|---|---|---|
| A | 11/16/00 | CLIENT REVIEW |
| B | 12/01/00 | FINAL |

PLANS PREPARED BY:

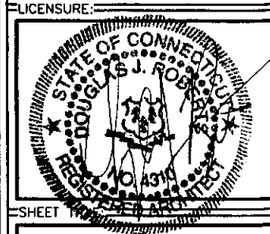
URS
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CT. 06067
1-(860)-529-8882

CONSTRUCTION MANAGER:

WFI
the global leader
IN TELECOM OUTSOURCING

| DRAWN BY: | CHK.: | APV.: |
|---|---|---|
| JRM | | |

LICENSURE:




SHEET TITLE:
PARTIAL SITE PLAN, TOWER ELEVATION, AND ANTENNA LAYOUT

| SHEET NUMBER: | REVISION: |
|---|---|
| SC-2 | B |
| | F03 |

URS PROJECT NO.
F30000194136