

**ENGINEERING STATEMENT
APPLICATION FCC 349
Prepared For Polnet Communications, Ltd
W223CN Zion, Illinois
Facility ID 142464 92.5 FM .250 kW
FCC Form 349-Instant Application**

- 1) Statement-Nature Of Proposal
- 2) Exhibit 1 - Proposed W223CN 60 dBu
and 25 mile ARC with WPJX AM 1500
Facility ID 49293(Primary Station)
- 3) Exhibit 2 - W223CN - 54 dBu And First
Adjacent WCPY 60 dBu
- 4) Exhibit 3 – W223CN Proposed 100 dBu
And Second Adjacent WVTY 60 dBu
- 5) Exhibit 4 – W223CN Proposed 48 dBu
And First Adjacent WPWR Licensed 54
dBu
- 6) Exhibit 5 - Proposed W223CN 34 dbu
and Co Channel WCLR 54 dBu Contour
- 7) Exhibit 6 – W223CN 34 dBu and Co
Channel WMBZ 54 DBU Contour
- 8) Exhibit 7 - Proposed PSIFMT 1AC
Directional Pattern

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W223CN Zion, Illinois
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Statement - Nature Of Proposal

Polnet Communications, Ltd. ("Polnet") is the licensee of Translator Station W223CN, 92.5 FM, Zion, Illinois (Facility ID 147928) W223CN is a licensed Class D FM station with authority to operate .065 kW with a Directional facility (BLFT-20161201AEQ). WPJX AM 1500-Zion, Illinois is the Primary station (BL-20091230ACS). WPJX AM 1500 Facility ID(49293).

Polnet herein proposes that this instant application utilize a different antenna than the current License (BLFT-20161201AEQ). Polnet is requesting a change to a PSIFMT 1 AC directional pattern. Polnet Proposes the currently licensed tower and coordinates for this instant application (Tower ASR #1008305). Polnet requests a change from 249' (76 meters) to 270 Feet (82.3 meters).

Polnet Requests operation at .250 kW power ERP Vertical and Horizontal.

The proposed W223CN FM 92.5 instant application has the 60 dBu of W223CN within the 25 mile arc of the primary station WPJX AM 1500 (BL-20091230ACS).

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Statement - Nature Of Proposal Page 2**

W223CN FM 92.5 Proposed Site

Tower ASR:

1008305

Coordinates: NAD 83

42-26-34.8 N

88-03-26.8 W

Elevation:

AGL: 270.0'(82.3 Meters)

G-AMSL: 833.33' (254.00m)

RC-AMSL: 1103.33' (336.30m)

HAAT: 345.77' (105.40m)

Directional Antenna

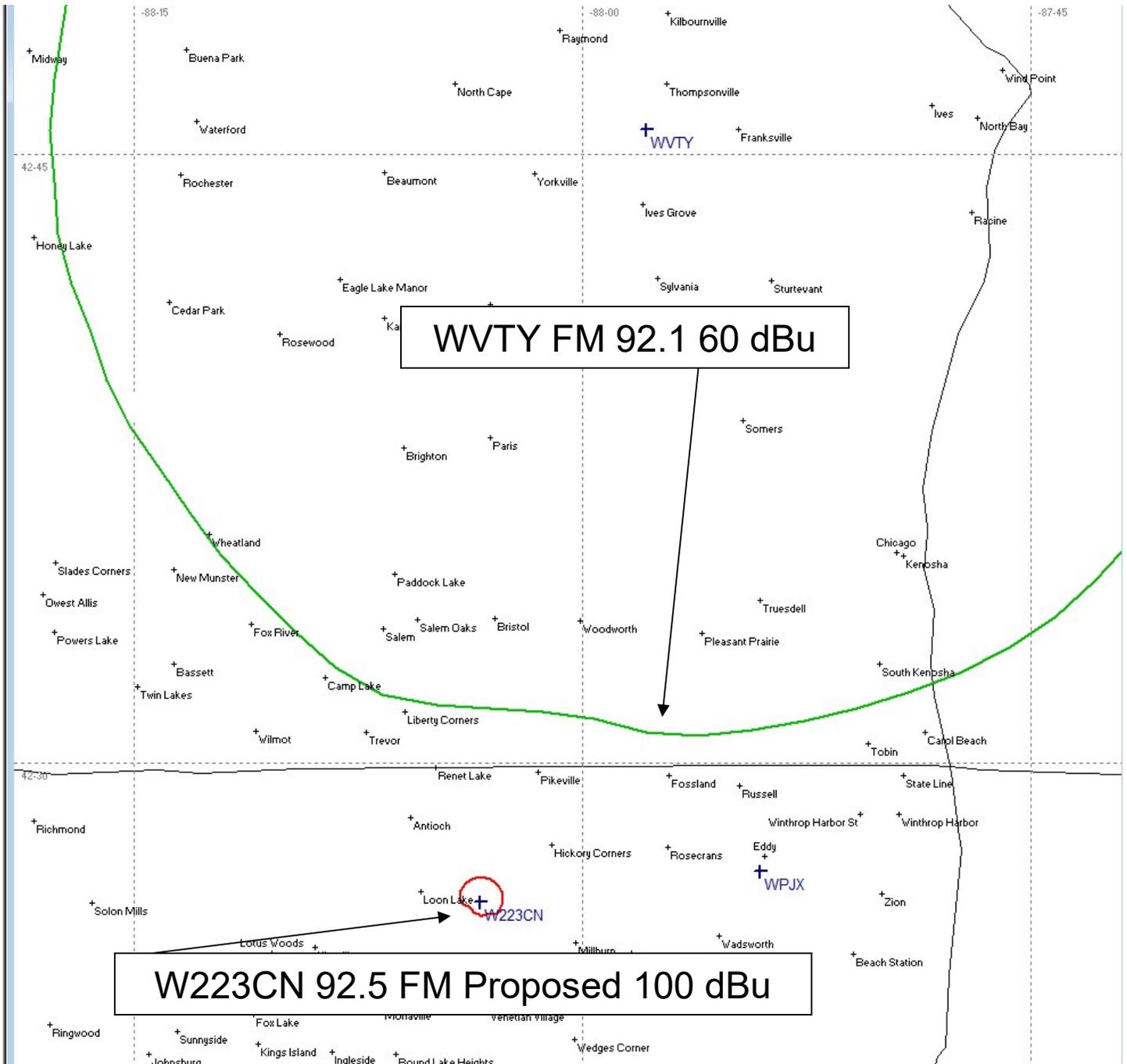
PSIFMT 1AC

Power:

250 Watts ERP

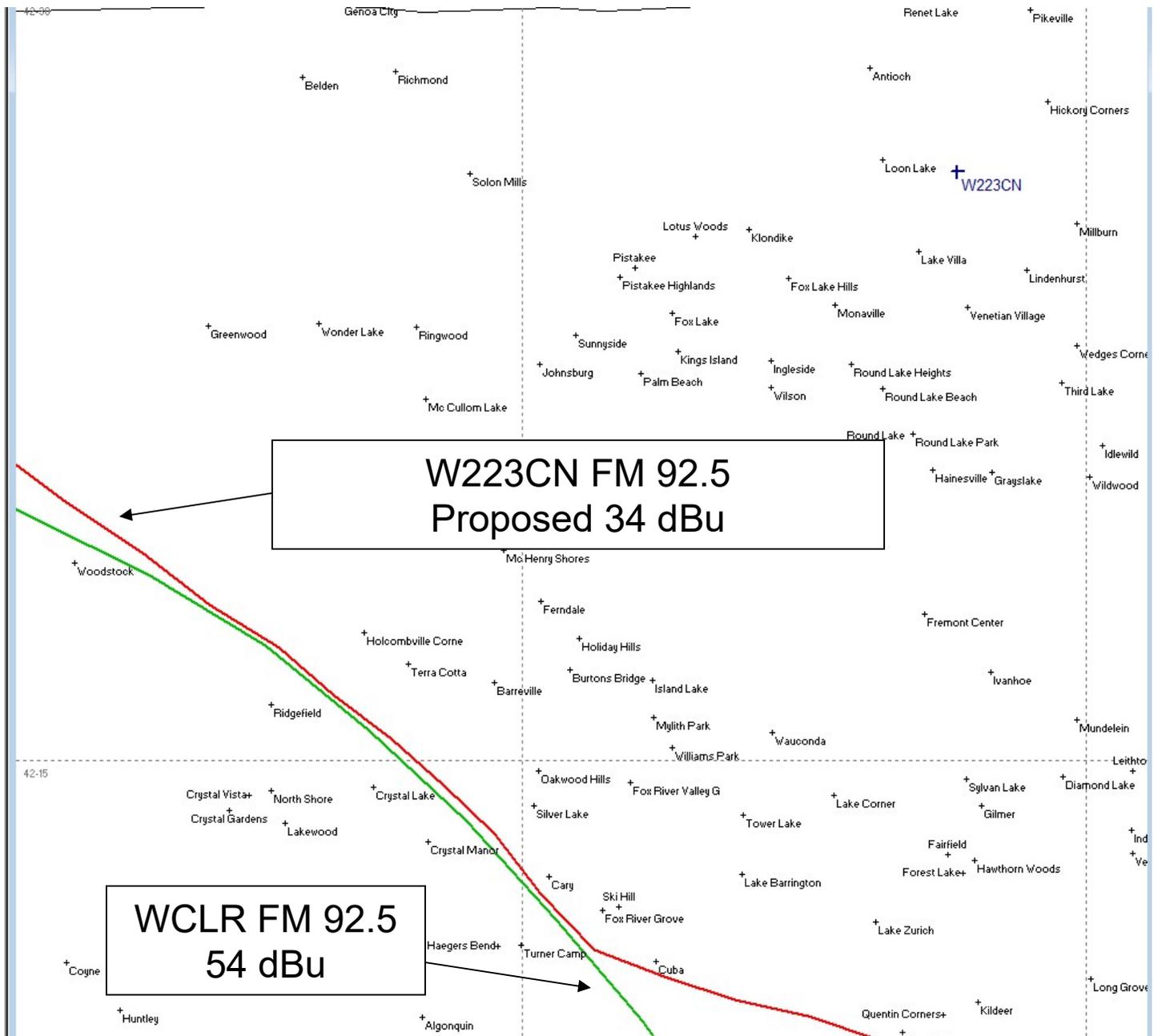
**ENGINEERING STATEMENT
APPLICATION FCC 349
Prepared For Polnet Communications, Ltd
W240DE Zion, Illinois
Facility ID 142464 92.5 FM .250 kW
FCC Form 349-Instant Application
Exhibit 3**

W223CN Proposed 100 dBu - Second Adjacent WVTY 60 dBu

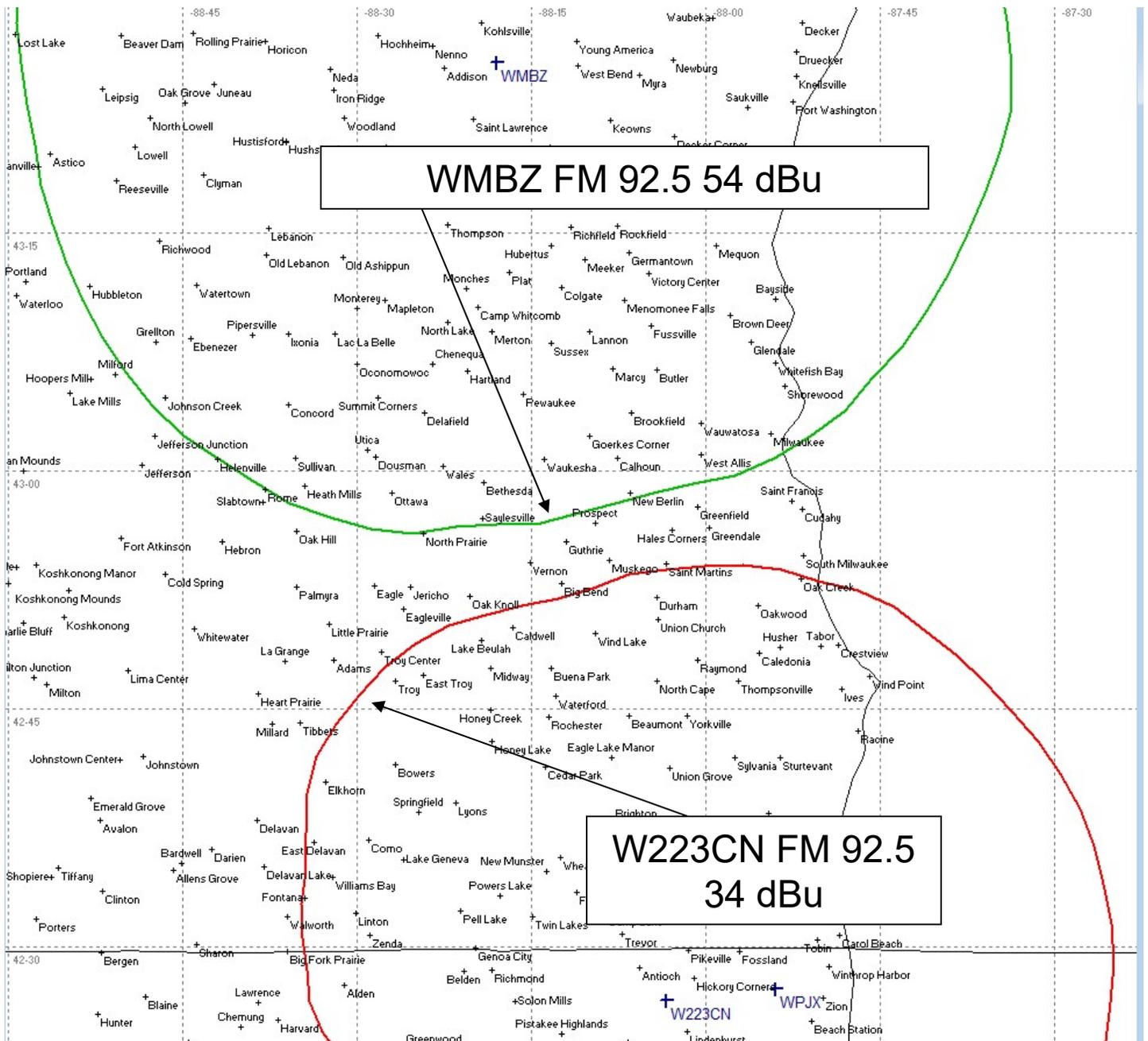


**ENGINEERING STATEMENT
APPLICATION FCC 349
Prepared For Polnet Communications, Ltd
W223CN Evanston, Illinois
Facility ID 142464 92.5 FM .250 kW
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Exhibit 5**

Proposed W223CN 34 dbu and Co Channel WCLR 54 dBu Contour



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W223CN Zion, Illinois
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Exhibit 6
W223CN 34 dBu And Co Channel WMBZ 54 DBU Contour**



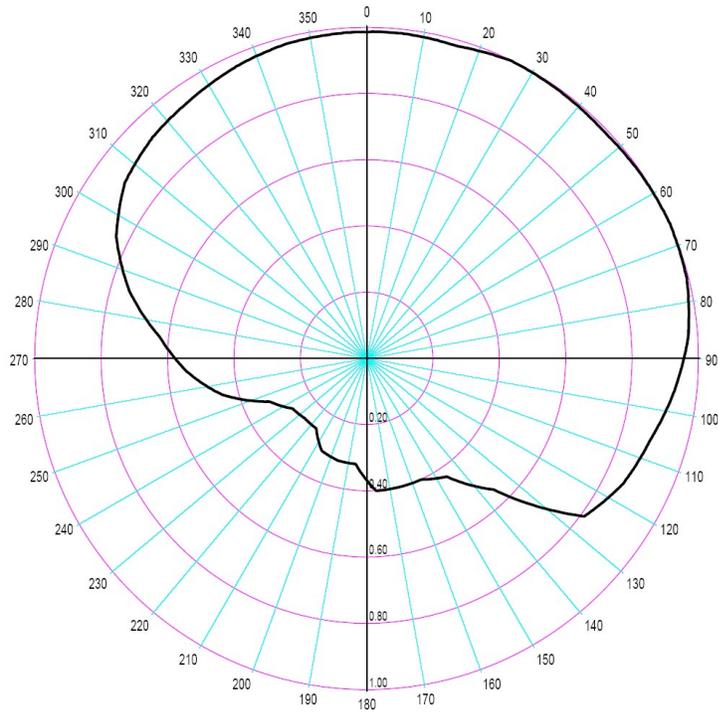
ENGINEERING STATEMENT
APPLICATION FCC 349
Prepared For Polnet Communications, Ltd
W223CN Zion, Illinois
Facility ID 142464 92.5 FM .250 kW
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Exhibit 7
PSIFMT 1 AC Directional Pattern

ComStudy

PSIFMT-1 AC

Horizontal Pattern

Vertical Pattern



| Azim | Rel.FS | ERP [W] | dBk | Azim | Rel.FS | ERP [W] | dBk | Azim | Rel.FS | ERP [W] | dBk | Azim | Rel.FS | ERP [W] | dBk |
|------|--------|---------|--------|-------|--------|---------|---------|-------|--------|---------|---------|-------|--------|---------|---------|
| 0.0 | 0.986 | 243.060 | -6.143 | 90.0 | 0.955 | 228.016 | -6.420 | 180.0 | 0.368 | 33.857 | -14.703 | 270.0 | 0.578 | 83.525 | -10.782 |
| 5.0 | 0.987 | 243.553 | -6.134 | 95.0 | 0.935 | 218.566 | -6.604 | 185.0 | 0.328 | 26.897 | -15.703 | 275.0 | 0.619 | 95.794 | -10.187 |
| 10.0 | 0.985 | 242.567 | -6.152 | 100.0 | 0.914 | 208.858 | -6.801 | 190.0 | 0.320 | 25.601 | -15.917 | 280.0 | 0.674 | 113.574 | -9.447 |
| 15.0 | 0.982 | 241.092 | -6.178 | 105.0 | 0.893 | 199.371 | -7.003 | 195.0 | 0.320 | 25.601 | -15.917 | 285.0 | 0.733 | 134.328 | -8.718 |
| 20.0 | 0.988 | 244.047 | -6.125 | 110.0 | 0.877 | 192.291 | -7.160 | 200.0 | 0.316 | 24.965 | -16.027 | 290.0 | 0.783 | 153.279 | -8.145 |
| 25.0 | 0.997 | 248.513 | -6.047 | 115.0 | 0.862 | 185.769 | -7.310 | 205.0 | 0.311 | 24.181 | -16.165 | 295.0 | 0.830 | 172.233 | -7.639 |
| 30.0 | 0.997 | 248.513 | -6.047 | 120.0 | 0.840 | 176.408 | -7.535 | 210.0 | 0.290 | 21.026 | -16.772 | 300.0 | 0.864 | 186.632 | -7.290 |
| 35.0 | 0.995 | 247.517 | -6.064 | 125.0 | 0.815 | 166.064 | -7.797 | 215.0 | 0.265 | 17.557 | -17.555 | 305.0 | 0.895 | 200.265 | -6.984 |
| 40.0 | 0.993 | 246.523 | -6.081 | 130.0 | 0.706 | 124.615 | -9.044 | 220.0 | 0.260 | 16.901 | -17.721 | 310.0 | 0.912 | 207.945 | -6.821 |
| 45.0 | 0.990 | 245.036 | -6.108 | 135.0 | 0.576 | 82.948 | -10.812 | 225.0 | 0.260 | 16.901 | -17.721 | 315.0 | 0.926 | 214.378 | -6.688 |
| 50.0 | 0.992 | 246.027 | -6.090 | 140.0 | 0.502 | 63.004 | -12.006 | 230.0 | 0.264 | 17.425 | -17.588 | 320.0 | 0.935 | 218.566 | -6.604 |
| 55.0 | 0.995 | 247.517 | -6.064 | 145.0 | 0.442 | 48.843 | -13.112 | 235.0 | 0.269 | 18.091 | -17.425 | 325.0 | 0.943 | 222.322 | -6.530 |
| 60.0 | 0.997 | 248.513 | -6.047 | 150.0 | 0.418 | 43.683 | -13.597 | 240.0 | 0.290 | 21.026 | -16.772 | 330.0 | 0.953 | 227.062 | -6.439 |
| 65.0 | 0.999 | 249.511 | -6.029 | 155.0 | 0.403 | 40.604 | -13.914 | 245.0 | 0.315 | 24.807 | -16.054 | 335.0 | 0.963 | 231.852 | -6.348 |
| 70.0 | 0.997 | 248.513 | -6.047 | 160.0 | 0.400 | 40.002 | -13.979 | 250.0 | 0.372 | 34.598 | -14.610 | 340.0 | 0.972 | 236.206 | -6.267 |
| 75.0 | 0.994 | 247.020 | -6.073 | 165.0 | 0.400 | 40.002 | -13.979 | 255.0 | 0.437 | 47.744 | -13.211 | 345.0 | 0.979 | 239.621 | -6.205 |
| 80.0 | 0.984 | 242.075 | -6.161 | 170.0 | 0.400 | 40.002 | -13.979 | 260.0 | 0.488 | 59.539 | -12.252 | 350.0 | 0.983 | 241.583 | -6.169 |
| 85.0 | 0.973 | 236.693 | -6.258 | 175.0 | 0.400 | 40.002 | -13.979 | 265.0 | 0.535 | 71.559 | -11.453 | 355.0 | 0.985 | 242.567 | -6.152 |