

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P268966

Luminaire Tested: **GLEON-AF-01-LED-E1-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-5NQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3680.6 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

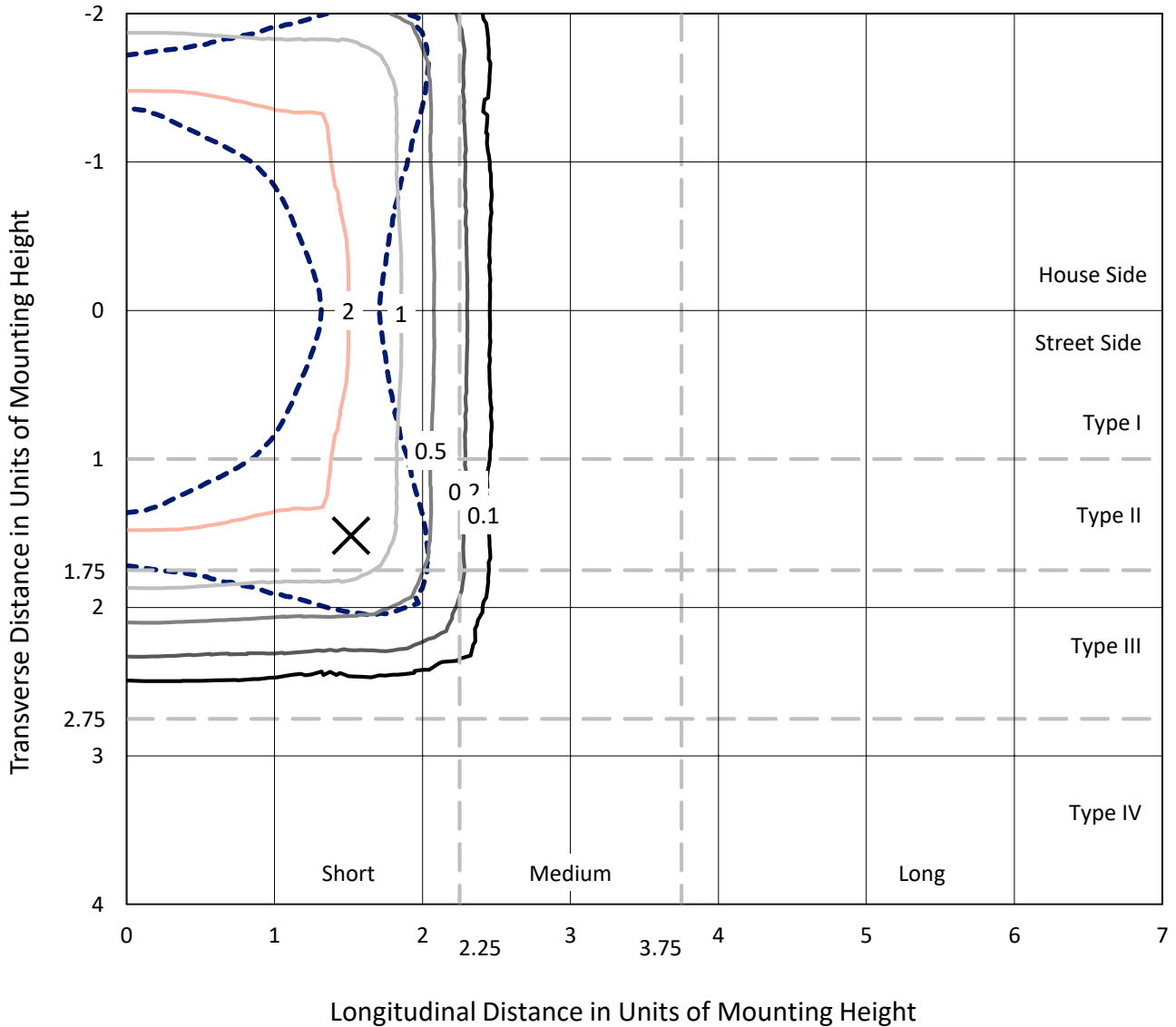


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

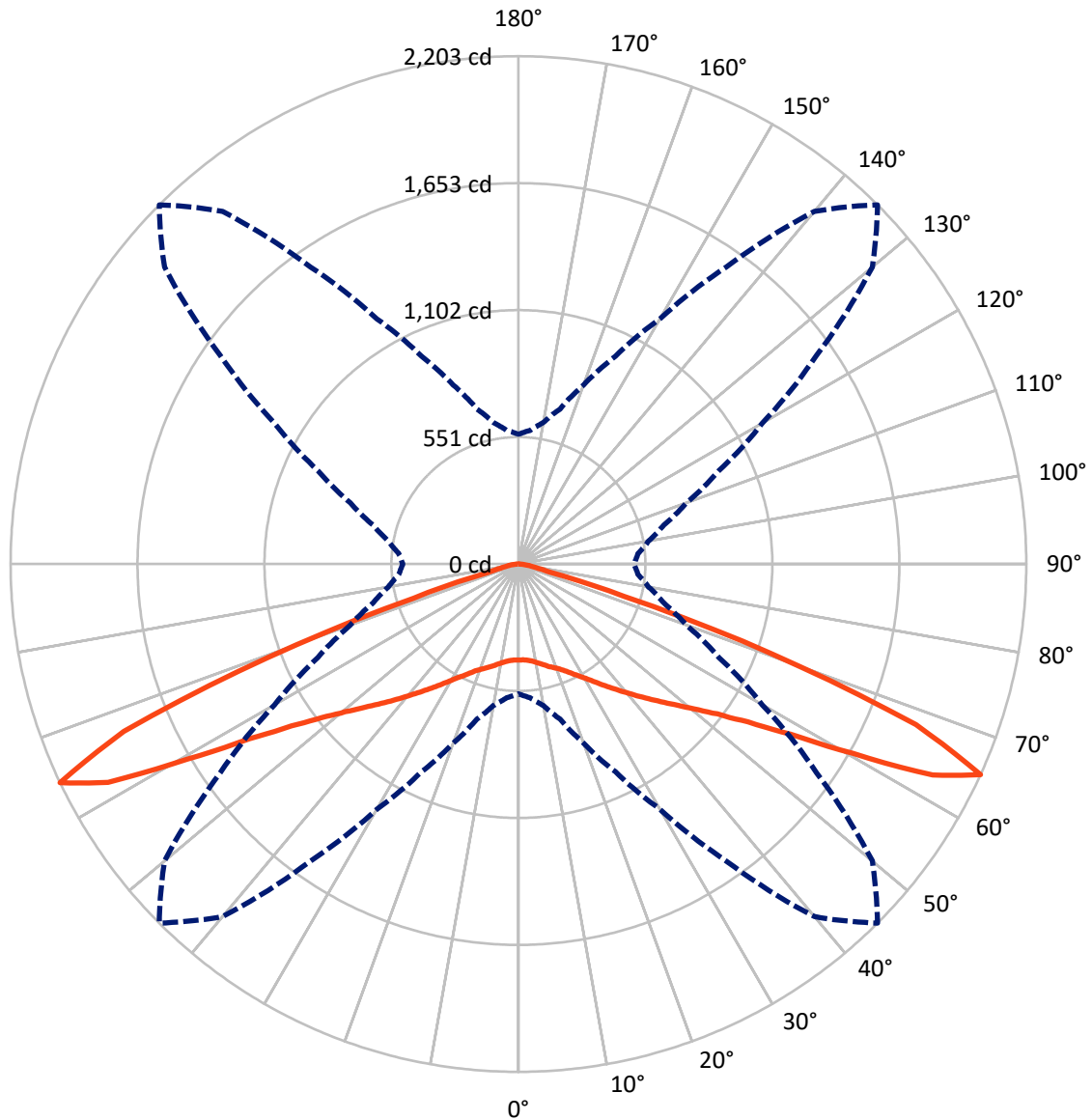


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1840.3 | 0.0 | 1840.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1840.3 | 0.0 | 1840.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3680.6 | 0.0 | 3680.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.6 | 1.1 |
| 10°-20° | 130.2 | 3.5 |
| 20°-30° | 243.4 | 6.6 |
| 30°-40° | 411.7 | 11.2 |
| 40°-50° | 673.2 | 18.3 |
| 50°-60° | 1070.4 | 29.1 |
| 60°-70° | 967.6 | 26.3 |
| 70°-80° | 122.5 | 3.3 |
| 80°-90° | 21.1 | 0.6 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3680.6 | 100.0 |
| 0°-180° | 3680.6 | 100.0 |



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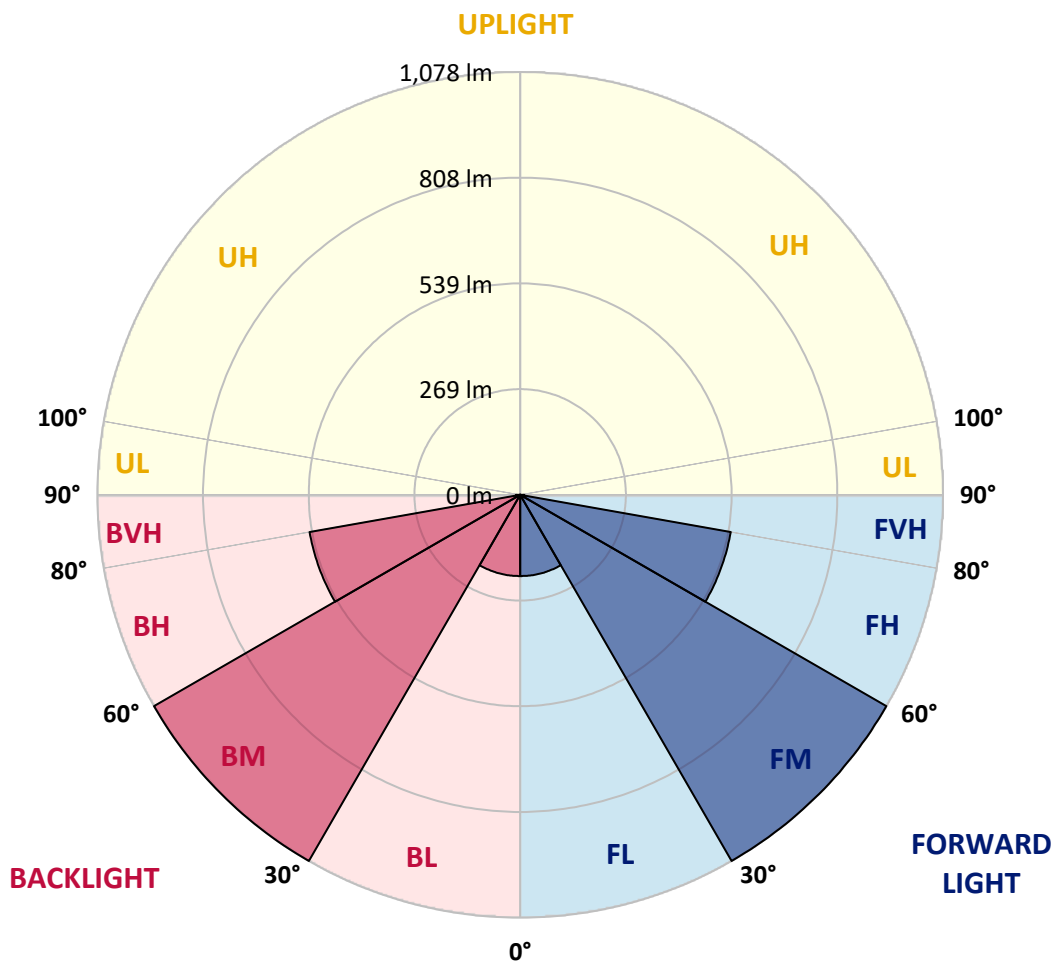
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 207.1 | 5.6 | | | |
| FM | (30°-60°) | 1077.6 | 29.3 | | | |
| FH | (60°-80°) | 545.0 | 14.8 | | | G0/660 |
| FVH | (80°-90°) | 10.5 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 207.1 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 1077.6 | 29.3 | B2/2500 | | |
| BH | (60°-80°) | 545.0 | 14.8 | B2/1000 | | G0/660 |
| BVH | (80°-90°) | 10.5 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 |
| 2.5° | 416.9 | 417.2 | 417.5 | 417.2 | 417.5 | 417.0 | 416.6 | 417.2 | 416.6 | 416.2 | 416.5 |
| 5° | 420.4 | 420.5 | 420.5 | 420.0 | 420.5 | 420.2 | 419.8 | 420.4 | 419.9 | 419.4 | 419.8 |
| 7.5° | 426.4 | 427.1 | 426.6 | 426.1 | 426.4 | 426.1 | 425.7 | 425.9 | 425.7 | 425.3 | 425.3 |
| 10° | 434.6 | 435.0 | 434.7 | 434.6 | 434.9 | 434.7 | 434.4 | 434.2 | 434.4 | 433.9 | 433.9 |
| 12.5° | 444.4 | 444.2 | 444.0 | 444.2 | 444.8 | 444.8 | 444.5 | 444.8 | 445.1 | 445.2 | 444.9 |
| 15° | 454.1 | 454.5 | 454.5 | 454.5 | 455.4 | 456.2 | 456.8 | 457.1 | 457.9 | 458.0 | 457.2 |
| 17.5° | 466.1 | 466.1 | 466.0 | 466.1 | 467.1 | 468.6 | 469.0 | 469.8 | 470.4 | 470.9 | 470.1 |
| 20° | 479.5 | 479.9 | 479.9 | 480.2 | 481.6 | 483.2 | 483.2 | 483.5 | 483.2 | 483.5 | 483.0 |
| 22.5° | 496.0 | 496.9 | 496.9 | 497.1 | 498.5 | 500.4 | 499.8 | 500.4 | 499.5 | 500.3 | 499.5 |
| 25° | 517.3 | 518.9 | 518.5 | 518.5 | 519.5 | 520.7 | 520.8 | 521.9 | 521.7 | 522.6 | 522.2 |
| 27.5° | 541.4 | 543.8 | 544.6 | 544.4 | 545.0 | 546.3 | 546.6 | 547.7 | 547.1 | 547.7 | 547.4 |
| 30° | 570.3 | 571.4 | 572.8 | 573.3 | 574.1 | 575.4 | 575.4 | 575.5 | 574.6 | 575.8 | 576.3 |
| 32.5° | 600.3 | 602.3 | 603.7 | 606.7 | 608.3 | 609.2 | 609.1 | 609.3 | 608.5 | 609.9 | 610.8 |
| 35° | 640.0 | 641.4 | 643.6 | 646.1 | 648.1 | 647.9 | 647.5 | 647.6 | 647.6 | 648.8 | 649.8 |
| 37.5° | 687.8 | 688.1 | 691.1 | 694.5 | 695.6 | 694.5 | 691.3 | 690.6 | 689.2 | 690.6 | 692.5 |
| 40° | 738.2 | 739.5 | 745.4 | 747.6 | 748.1 | 746.2 | 741.7 | 739.1 | 735.7 | 737.6 | 740.1 |
| 42.5° | 791.1 | 793.7 | 799.0 | 802.9 | 804.6 | 803.4 | 797.2 | 793.3 | 788.8 | 789.8 | 792.2 |
| 45° | 849.7 | 852.8 | 860.3 | 864.1 | 867.5 | 865.4 | 859.5 | 853.4 | 846.4 | 846.9 | 850.7 |
| 47.5° | 915.4 | 918.2 | 928.0 | 934.4 | 936.2 | 935.9 | 929.0 | 920.9 | 911.2 | 910.8 | 914.0 |
| 50° | 988.8 | 991.6 | 1003.9 | 1013.7 | 1018.8 | 1018.1 | 1010.2 | 998.6 | 986.9 | 987.0 | 991.2 |
| 52.5° | 1060.4 | 1064.0 | 1076.8 | 1093.7 | 1103.6 | 1110.7 | 1105.8 | 1094.8 | 1080.4 | 1080.8 | 1084.6 |
| 55° | 1127.7 | 1133.8 | 1148.4 | 1171.3 | 1189.5 | 1209.4 | 1215.0 | 1214.7 | 1206.2 | 1208.5 | 1212.4 |
| 57.5° | 1160.3 | 1169.2 | 1191.8 | 1228.1 | 1265.3 | 1305.5 | 1339.7 | 1365.2 | 1376.1 | 1392.5 | 1388.7 |
| 60° | 1098.5 | 1112.8 | 1146.1 | 1199.3 | 1273.0 | 1357.1 | 1447.3 | 1535.4 | 1610.5 | 1667.3 | 1634.6 |
| 62.5° | 899.5 | 918.1 | 958.4 | 1026.7 | 1138.1 | 1272.7 | 1445.3 | 1653.4 | 1880.2 | 2017.1 | 1919.4 |
| 65° | 562.8 | 582.1 | 623.2 | 696.2 | 826.5 | 994.0 | 1228.1 | 1573.1 | 1996.9 | 2203.4 | 2004.4 |
| 67.5° | 219.5 | 230.0 | 252.2 | 298.9 | 396.8 | 545.7 | 780.6 | 1172.3 | 1679.3 | 1860.1 | 1648.1 |
| 70° | 110.0 | 111.0 | 115.2 | 123.7 | 144.7 | 188.0 | 286.1 | 543.6 | 963.1 | 1163.1 | 928.4 |
| 72.5° | 79.5 | 79.6 | 81.7 | 85.5 | 92.3 | 101.9 | 120.6 | 166.4 | 313.1 | 478.6 | 293.6 |
| 75° | 60.8 | 61.5 | 62.7 | 64.8 | 68.5 | 73.2 | 79.9 | 95.8 | 118.8 | 137.7 | 115.8 |
| 77.5° | 46.9 | 48.2 | 49.1 | 51.1 | 53.3 | 56.6 | 58.4 | 64.5 | 75.0 | 79.0 | 77.8 |
| 80° | 35.8 | 36.9 | 38.7 | 40.3 | 42.0 | 43.5 | 42.8 | 45.5 | 51.1 | 54.3 | 52.6 |
| 82.5° | 22.7 | 24.2 | 29.6 | 31.0 | 31.7 | 32.8 | 31.5 | 31.7 | 34.1 | 36.2 | 34.1 |
| 85° | 14.6 | 15.5 | 18.8 | 20.5 | 20.8 | 21.4 | 20.9 | 19.7 | 19.7 | 18.0 | 20.1 |
| 87.5° | 6.6 | 6.8 | 8.4 | 10.1 | 10.3 | 9.3 | 9.2 | 8.9 | 7.0 | 6.6 | 7.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 | 416.5 |
| 2.5° | 416.3 | 416.6 | 416.9 | 417.4 | 417.5 | 417.5 | 417.6 | 418.0 |
| 5° | 419.6 | 420.0 | 420.2 | 420.9 | 421.1 | 420.9 | 421.2 | 421.5 |
| 7.5° | 425.3 | 426.2 | 426.6 | 427.4 | 426.9 | 427.6 | 427.7 | 427.7 |
| 10° | 434.1 | 434.9 | 435.0 | 435.8 | 435.4 | 435.8 | 435.8 | 435.4 |
| 12.5° | 445.4 | 445.6 | 445.1 | 445.6 | 444.9 | 445.2 | 444.8 | 444.4 |
| 15° | 458.0 | 457.4 | 456.2 | 456.2 | 455.3 | 455.4 | 455.3 | 455.1 |
| 17.5° | 470.3 | 469.3 | 468.3 | 467.9 | 467.1 | 466.9 | 466.4 | 466.4 |
| 20° | 483.6 | 483.2 | 482.7 | 482.0 | 481.1 | 480.2 | 480.1 | 480.5 |
| 22.5° | 499.8 | 499.6 | 499.6 | 499.4 | 498.2 | 497.3 | 496.9 | 496.9 |
| 25° | 521.6 | 520.1 | 520.1 | 519.8 | 519.4 | 518.9 | 517.9 | 518.3 |
| 27.5° | 546.1 | 545.2 | 545.9 | 545.7 | 545.2 | 545.2 | 544.6 | 544.6 |
| 30° | 576.3 | 576.0 | 576.9 | 576.1 | 574.3 | 574.1 | 573.5 | 572.6 |
| 32.5° | 611.0 | 610.7 | 612.3 | 611.2 | 608.5 | 607.0 | 605.5 | 604.9 |
| 35° | 649.8 | 650.1 | 651.9 | 651.2 | 648.1 | 647.0 | 644.7 | 644.4 |
| 37.5° | 692.2 | 695.0 | 698.3 | 699.1 | 696.4 | 695.6 | 693.1 | 691.8 |
| 40° | 742.1 | 745.8 | 750.8 | 751.9 | 749.1 | 748.6 | 745.1 | 743.1 |
| 42.5° | 795.2 | 801.4 | 807.5 | 808.7 | 805.9 | 803.1 | 799.6 | 798.2 |
| 45° | 854.5 | 861.8 | 870.0 | 872.1 | 867.9 | 864.6 | 860.1 | 860.1 |
| 47.5° | 921.0 | 930.4 | 939.4 | 945.1 | 941.3 | 937.9 | 932.5 | 929.0 |
| 50° | 999.6 | 1012.4 | 1024.2 | 1030.0 | 1024.1 | 1017.5 | 1008.2 | 1005.2 |
| 52.5° | 1098.2 | 1112.0 | 1122.3 | 1119.2 | 1109.9 | 1100.9 | 1090.6 | 1086.5 |
| 55° | 1224.0 | 1228.7 | 1228.7 | 1216.9 | 1198.3 | 1183.0 | 1167.0 | 1161.6 |
| 57.5° | 1381.5 | 1363.4 | 1335.9 | 1300.9 | 1257.0 | 1218.7 | 1192.8 | 1180.6 |
| 60° | 1566.4 | 1480.1 | 1382.9 | 1287.1 | 1208.5 | 1143.7 | 1105.3 | 1087.7 |
| 62.5° | 1689.6 | 1464.1 | 1269.0 | 1115.4 | 1002.4 | 924.3 | 871.1 | 850.4 |
| 65° | 1579.1 | 1221.1 | 959.7 | 776.0 | 652.8 | 573.3 | 520.7 | 501.4 |
| 67.5° | 1156.7 | 765.1 | 511.0 | 366.2 | 268.5 | 214.1 | 192.5 | 183.6 |
| 70° | 519.2 | 269.4 | 165.2 | 128.9 | 111.2 | 102.0 | 98.1 | 96.7 |
| 72.5° | 156.6 | 113.2 | 95.5 | 86.1 | 79.1 | 74.6 | 71.3 | 71.1 |
| 75° | 94.4 | 78.6 | 69.8 | 64.3 | 59.7 | 56.2 | 54.4 | 54.0 |
| 77.5° | 66.0 | 57.8 | 53.5 | 49.6 | 46.3 | 43.5 | 42.0 | 40.7 |
| 80° | 46.4 | 42.4 | 40.6 | 38.3 | 36.0 | 33.4 | 31.3 | 30.2 |
| 82.5° | 31.0 | 30.2 | 30.2 | 28.7 | 26.9 | 24.4 | 20.0 | 19.0 |
| 85° | 20.0 | 19.9 | 20.1 | 19.7 | 18.2 | 15.7 | 12.9 | 12.2 |
| 87.5° | 9.3 | 9.5 | 10.5 | 10.3 | 10.1 | 8.3 | 6.6 | 6.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)