

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: P193409

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

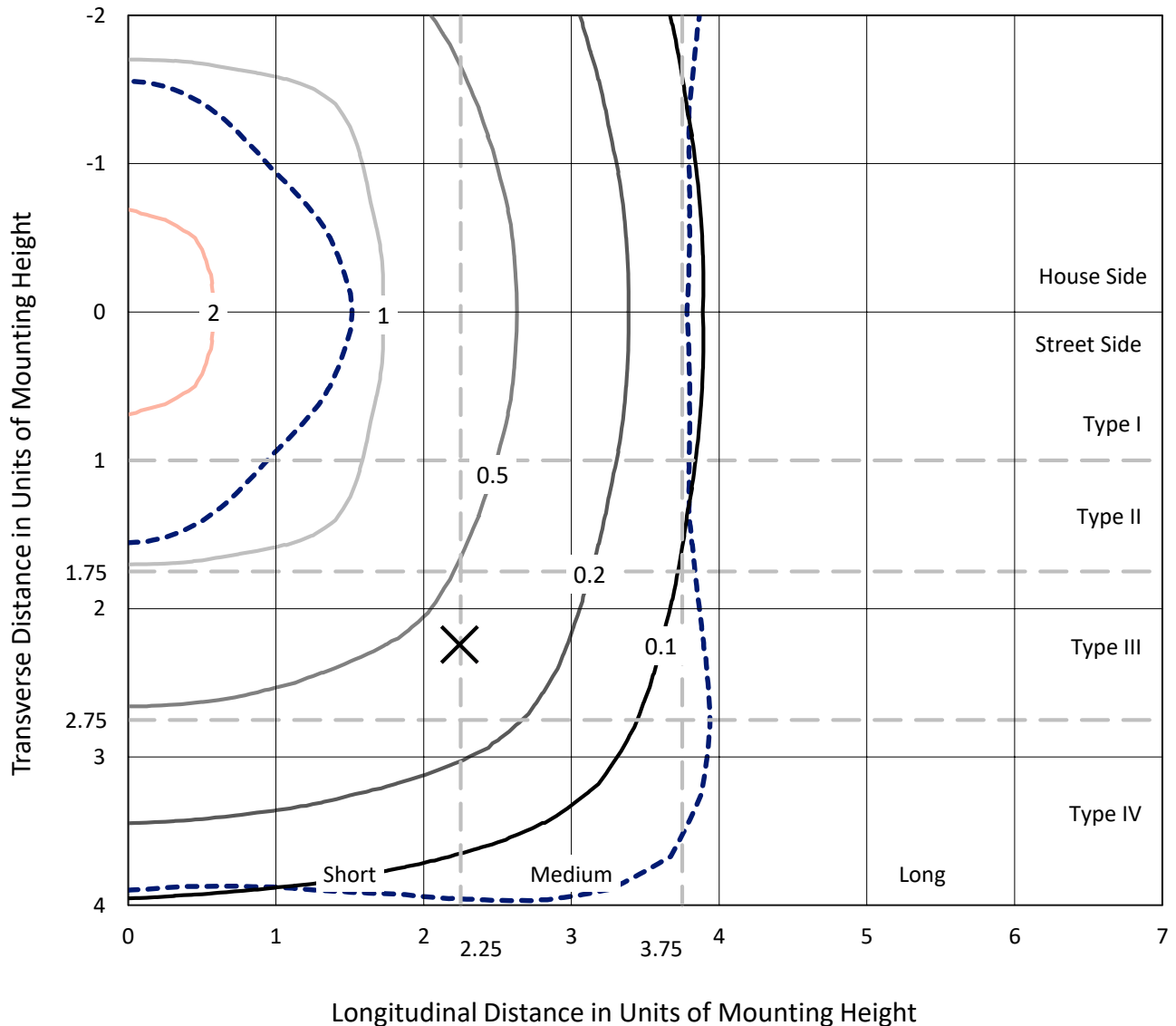
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

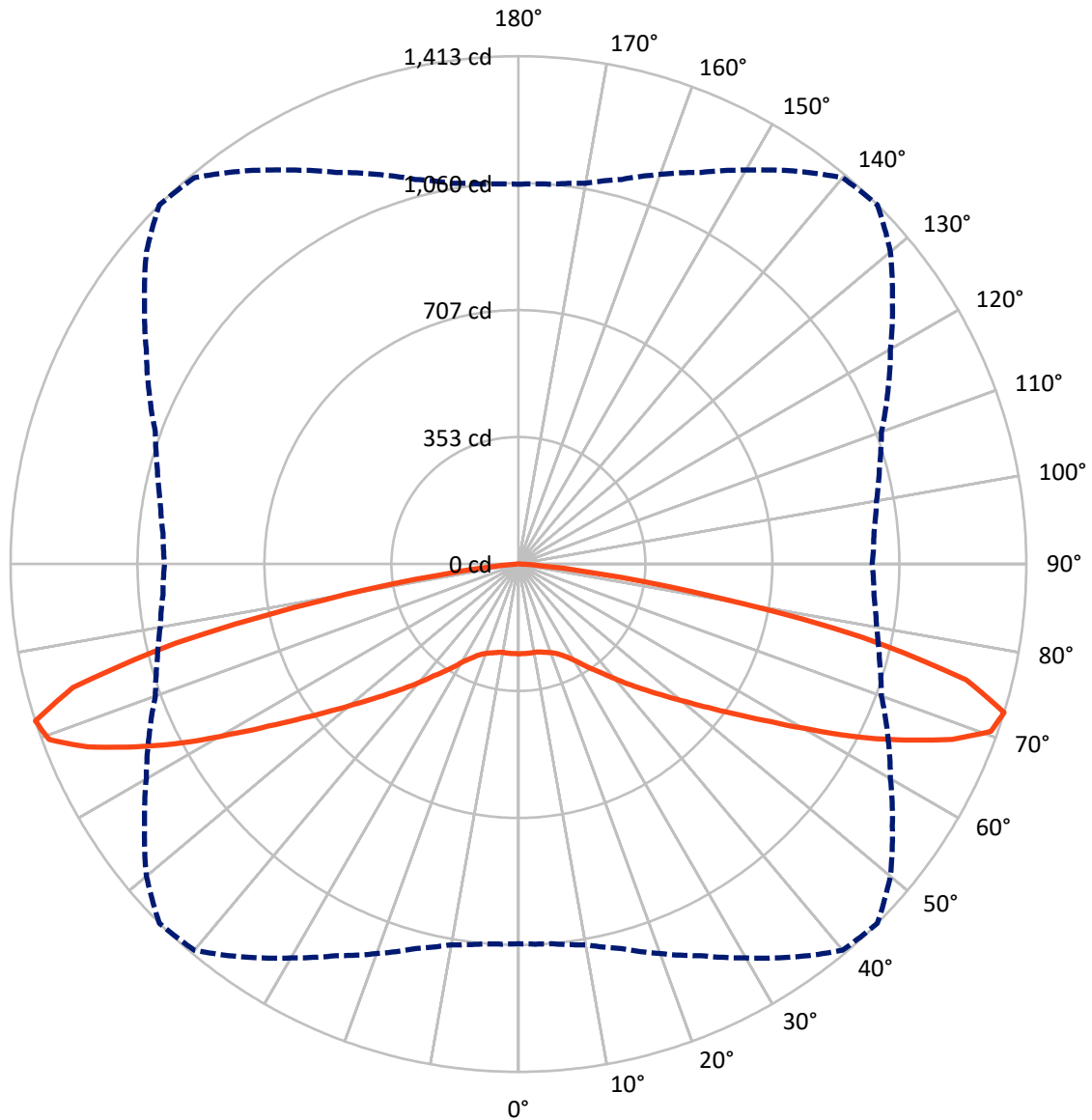


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1764.5 | 0.0 | 1764.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1764.5 | 0.0 | 1764.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3529.0 | 0.0 | 3529.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.9 | 0.7 |
| 10°-20° | 72.5 | 2.1 |
| 20°-30° | 132.4 | 3.8 |
| 30°-40° | 228.4 | 6.5 |
| 40°-50° | 390.4 | 11.1 |
| 50°-60° | 632.7 | 17.9 |
| 60°-70° | 1049.7 | 29.7 |
| 70°-80° | 924.5 | 26.2 |
| 80°-90° | 74.5 | 2.1 |
| 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° | 3529.0 | 100.0 |
| 0°-180° | 3529.0 | 100.0 |



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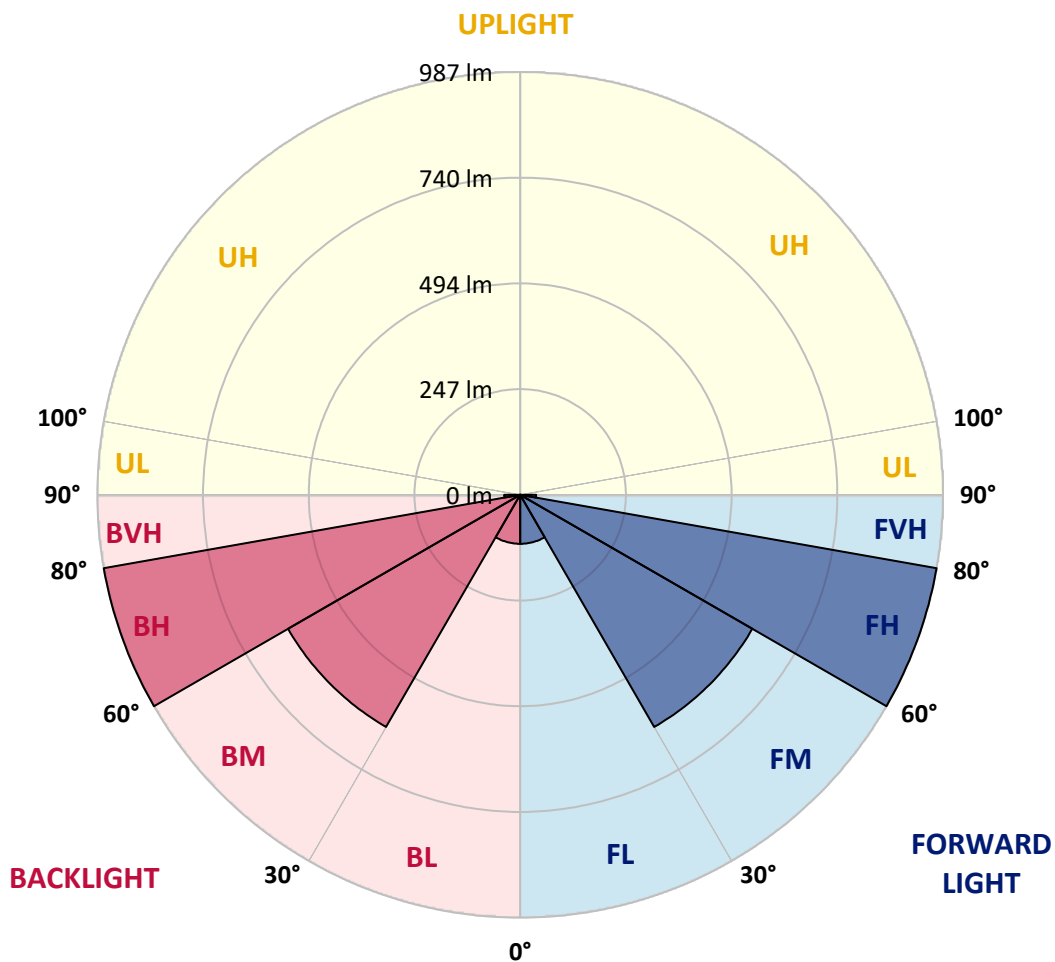
CATALOG NUMBER: GLEON-AF-01-LED-E1-5WQ-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 114.4 | 3.2 | | | |
| FM | (30°-60°) | 625.7 | 17.7 | | | |
| FH | (60°-80°) | 987.1 | 28.0 | | | G1/1800 |
| FVH | (80°-90°) | 37.3 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 114.4 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 625.7 | 17.7 | B1/1000 | | |
| BH | (60°-80°) | 987.1 | 28.0 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 37.3 | 1.1 | | | 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° | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 |
| 2.5° | 249.9 | 250.1 | 250.2 | 250.1 | 250.1 | 249.9 | 249.7 | 249.9 | 249.7 | 249.4 | 249.6 |
| 5° | 250.7 | 251.0 | 251.0 | 250.7 | 250.9 | 250.7 | 250.4 | 250.6 | 250.2 | 249.7 | 249.7 |
| 7.5° | 251.7 | 251.9 | 251.9 | 251.5 | 251.7 | 251.4 | 251.0 | 250.9 | 250.6 | 249.9 | 249.4 |
| 10° | 253.1 | 253.3 | 253.1 | 252.8 | 252.8 | 252.3 | 251.5 | 251.2 | 250.6 | 249.6 | 249.1 |
| 12.5° | 254.8 | 254.9 | 254.8 | 254.4 | 254.3 | 253.5 | 252.8 | 252.3 | 251.9 | 251.0 | 250.2 |
| 15° | 257.0 | 257.4 | 257.0 | 256.4 | 255.9 | 255.2 | 254.9 | 255.1 | 255.2 | 254.6 | 253.8 |
| 17.5° | 261.2 | 261.4 | 260.9 | 259.5 | 258.8 | 258.2 | 258.2 | 258.5 | 259.0 | 258.6 | 257.8 |
| 20° | 269.0 | 268.5 | 267.4 | 265.6 | 264.8 | 263.7 | 263.5 | 263.7 | 263.7 | 263.5 | 262.9 |
| 22.5° | 278.7 | 278.4 | 276.9 | 274.7 | 273.5 | 272.9 | 271.9 | 271.1 | 270.9 | 270.5 | 269.8 |
| 25° | 290.4 | 290.2 | 288.4 | 286.5 | 285.7 | 284.9 | 284.1 | 282.9 | 282.0 | 280.8 | 280.2 |
| 27.5° | 305.3 | 304.6 | 302.0 | 301.1 | 299.9 | 299.4 | 298.3 | 297.0 | 296.2 | 294.7 | 293.9 |
| 30° | 321.6 | 321.6 | 319.5 | 319.2 | 319.2 | 318.1 | 316.8 | 314.5 | 313.0 | 311.6 | 311.1 |
| 32.5° | 338.0 | 338.1 | 336.0 | 336.7 | 337.1 | 338.0 | 338.3 | 337.5 | 336.5 | 336.3 | 335.4 |
| 35° | 361.6 | 360.9 | 358.8 | 359.3 | 359.2 | 359.0 | 359.0 | 360.8 | 361.1 | 361.4 | 359.5 |
| 37.5° | 390.9 | 390.9 | 388.8 | 388.8 | 387.8 | 386.8 | 385.5 | 386.7 | 388.5 | 388.9 | 387.6 |
| 40° | 424.4 | 425.5 | 422.9 | 422.8 | 423.1 | 420.0 | 418.6 | 420.3 | 421.5 | 423.4 | 422.0 |
| 42.5° | 463.9 | 463.1 | 460.5 | 460.2 | 458.4 | 457.4 | 456.1 | 457.6 | 459.4 | 460.6 | 461.1 |
| 45° | 501.8 | 501.1 | 498.2 | 498.2 | 496.4 | 495.6 | 496.3 | 498.7 | 499.5 | 501.3 | 503.1 |
| 47.5° | 539.1 | 538.3 | 536.4 | 537.2 | 537.4 | 538.8 | 540.9 | 543.2 | 545.5 | 547.9 | 548.7 |
| 50° | 577.3 | 577.5 | 575.4 | 577.3 | 579.8 | 583.8 | 589.5 | 593.2 | 597.9 | 601.0 | 601.9 |
| 52.5° | 612.1 | 612.8 | 615.1 | 619.6 | 624.4 | 632.4 | 642.1 | 651.2 | 658.9 | 664.1 | 663.8 |
| 55° | 653.9 | 654.9 | 660.4 | 668.1 | 676.1 | 688.1 | 702.5 | 718.5 | 731.4 | 738.9 | 734.2 |
| 57.5° | 707.3 | 709.4 | 715.6 | 726.1 | 737.9 | 753.4 | 773.2 | 797.3 | 817.4 | 827.4 | 819.8 |
| 60° | 780.6 | 781.9 | 789.4 | 801.0 | 815.3 | 834.5 | 860.9 | 893.3 | 921.6 | 934.9 | 926.1 |
| 62.5° | 877.3 | 879.7 | 885.7 | 897.5 | 912.1 | 933.9 | 966.1 | 1006.6 | 1041.9 | 1060.3 | 1040.6 |
| 65° | 992.7 | 1000.4 | 1005.5 | 1017.4 | 1031.0 | 1054.2 | 1087.8 | 1131.2 | 1169.1 | 1181.2 | 1158.4 |
| 67.5° | 1106.9 | 1113.7 | 1122.5 | 1136.2 | 1150.0 | 1176.1 | 1207.3 | 1249.4 | 1291.0 | 1302.0 | 1266.5 |
| 70° | 1157.0 | 1160.8 | 1174.4 | 1193.2 | 1219.6 | 1250.3 | 1286.4 | 1333.7 | 1385.2 | 1394.2 | 1349.2 |
| 72.5° | 1056.8 | 1060.7 | 1075.9 | 1107.8 | 1153.7 | 1202.6 | 1265.6 | 1335.0 | 1403.0 | 1413.2 | 1351.2 |
| 75° | 799.3 | 792.9 | 815.4 | 857.7 | 919.7 | 987.8 | 1075.9 | 1175.4 | 1273.7 | 1286.4 | 1212.5 |
| 77.5° | 413.1 | 412.3 | 429.2 | 481.7 | 555.7 | 633.2 | 730.1 | 842.6 | 938.8 | 977.6 | 917.4 |
| 80° | 116.4 | 117.7 | 125.8 | 151.8 | 195.0 | 251.0 | 326.8 | 432.2 | 510.8 | 551.0 | 517.3 |
| 82.5° | 45.6 | 49.2 | 52.3 | 57.1 | 62.8 | 71.1 | 94.8 | 141.1 | 189.4 | 226.3 | 185.3 |
| 85° | 16.3 | 17.5 | 24.8 | 29.3 | 29.8 | 31.4 | 35.8 | 41.8 | 50.3 | 60.0 | 49.4 |
| 87.5° | 6.2 | 6.8 | 7.9 | 13.1 | 12.9 | 11.8 | 14.4 | 15.1 | 11.3 | 10.4 | 12.8 |
| 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° | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 | 249.9 |
| 2.5° | 249.3 | 249.4 | 249.4 | 249.6 | 249.7 | 249.7 | 250.1 | 250.1 |
| 5° | 249.4 | 249.4 | 249.1 | 249.3 | 249.1 | 249.1 | 249.3 | 249.3 |
| 7.5° | 249.1 | 248.9 | 248.6 | 248.5 | 248.1 | 248.1 | 248.1 | 248.1 |
| 10° | 248.6 | 248.5 | 248.1 | 248.0 | 247.8 | 247.8 | 247.8 | 247.8 |
| 12.5° | 249.9 | 249.4 | 249.1 | 248.9 | 248.9 | 248.9 | 248.9 | 248.9 |
| 15° | 253.3 | 252.2 | 251.4 | 251.4 | 251.5 | 251.9 | 251.9 | 252.2 |
| 17.5° | 257.5 | 256.2 | 255.4 | 254.8 | 255.1 | 255.6 | 255.9 | 256.2 |
| 20° | 262.5 | 261.9 | 260.8 | 260.1 | 260.1 | 260.8 | 261.1 | 261.2 |
| 22.5° | 269.5 | 269.0 | 268.5 | 267.7 | 267.7 | 268.0 | 268.7 | 268.7 |
| 25° | 279.9 | 279.5 | 279.2 | 278.6 | 278.4 | 278.4 | 278.7 | 279.0 |
| 27.5° | 292.8 | 293.0 | 292.6 | 292.5 | 292.0 | 291.8 | 292.3 | 292.2 |
| 30° | 310.1 | 310.9 | 311.7 | 311.1 | 310.3 | 309.8 | 309.3 | 308.7 |
| 32.5° | 333.6 | 332.6 | 332.0 | 330.8 | 329.4 | 328.1 | 327.1 | 326.0 |
| 35° | 355.8 | 354.1 | 353.5 | 354.5 | 354.3 | 353.5 | 352.4 | 351.4 |
| 37.5° | 383.0 | 382.6 | 383.0 | 384.7 | 384.4 | 385.2 | 383.0 | 382.8 |
| 40° | 417.3 | 417.6 | 419.9 | 422.0 | 423.1 | 424.2 | 422.9 | 421.6 |
| 42.5° | 457.1 | 456.9 | 457.7 | 460.6 | 462.6 | 463.9 | 461.1 | 460.8 |
| 45° | 499.2 | 498.0 | 498.7 | 501.1 | 503.1 | 504.5 | 501.4 | 501.4 |
| 47.5° | 545.5 | 543.5 | 541.4 | 544.2 | 545.3 | 546.3 | 543.8 | 543.0 |
| 50° | 597.1 | 593.0 | 588.5 | 589.6 | 589.6 | 589.3 | 586.2 | 586.1 |
| 52.5° | 656.3 | 648.9 | 640.6 | 637.6 | 635.8 | 633.8 | 628.5 | 625.9 |
| 55° | 724.5 | 713.3 | 700.4 | 692.4 | 688.2 | 682.9 | 674.0 | 671.5 |
| 57.5° | 804.1 | 786.6 | 764.3 | 754.6 | 745.2 | 736.5 | 726.6 | 723.8 |
| 60° | 898.5 | 872.7 | 843.1 | 825.1 | 815.0 | 806.5 | 796.3 | 795.9 |
| 62.5° | 1003.7 | 963.1 | 929.5 | 913.4 | 905.9 | 898.5 | 888.8 | 890.1 |
| 65° | 1110.7 | 1068.3 | 1036.9 | 1023.7 | 1016.8 | 1010.6 | 1000.9 | 1002.4 |
| 67.5° | 1216.2 | 1177.2 | 1142.7 | 1129.3 | 1121.5 | 1113.7 | 1105.0 | 1106.5 |
| 70° | 1291.9 | 1243.6 | 1204.7 | 1174.9 | 1156.3 | 1135.3 | 1121.7 | 1118.3 |
| 72.5° | 1270.3 | 1195.6 | 1134.0 | 1074.9 | 1040.3 | 1012.1 | 993.0 | 984.7 |
| 75° | 1099.3 | 997.4 | 918.1 | 845.5 | 804.8 | 771.6 | 747.5 | 732.4 |
| 77.5° | 816.4 | 701.8 | 608.1 | 524.6 | 458.5 | 414.2 | 383.0 | 362.7 |
| 80° | 446.9 | 339.9 | 248.5 | 174.6 | 128.4 | 106.7 | 94.2 | 88.2 |
| 82.5° | 139.2 | 89.8 | 66.2 | 57.1 | 53.1 | 50.8 | 47.1 | 41.1 |
| 85° | 44.3 | 38.8 | 36.1 | 34.5 | 32.9 | 28.6 | 19.7 | 18.0 |
| 87.5° | 17.2 | 17.6 | 17.5 | 16.5 | 16.8 | 12.1 | 9.7 | 8.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)