

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: P191679

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191679
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5304 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): 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

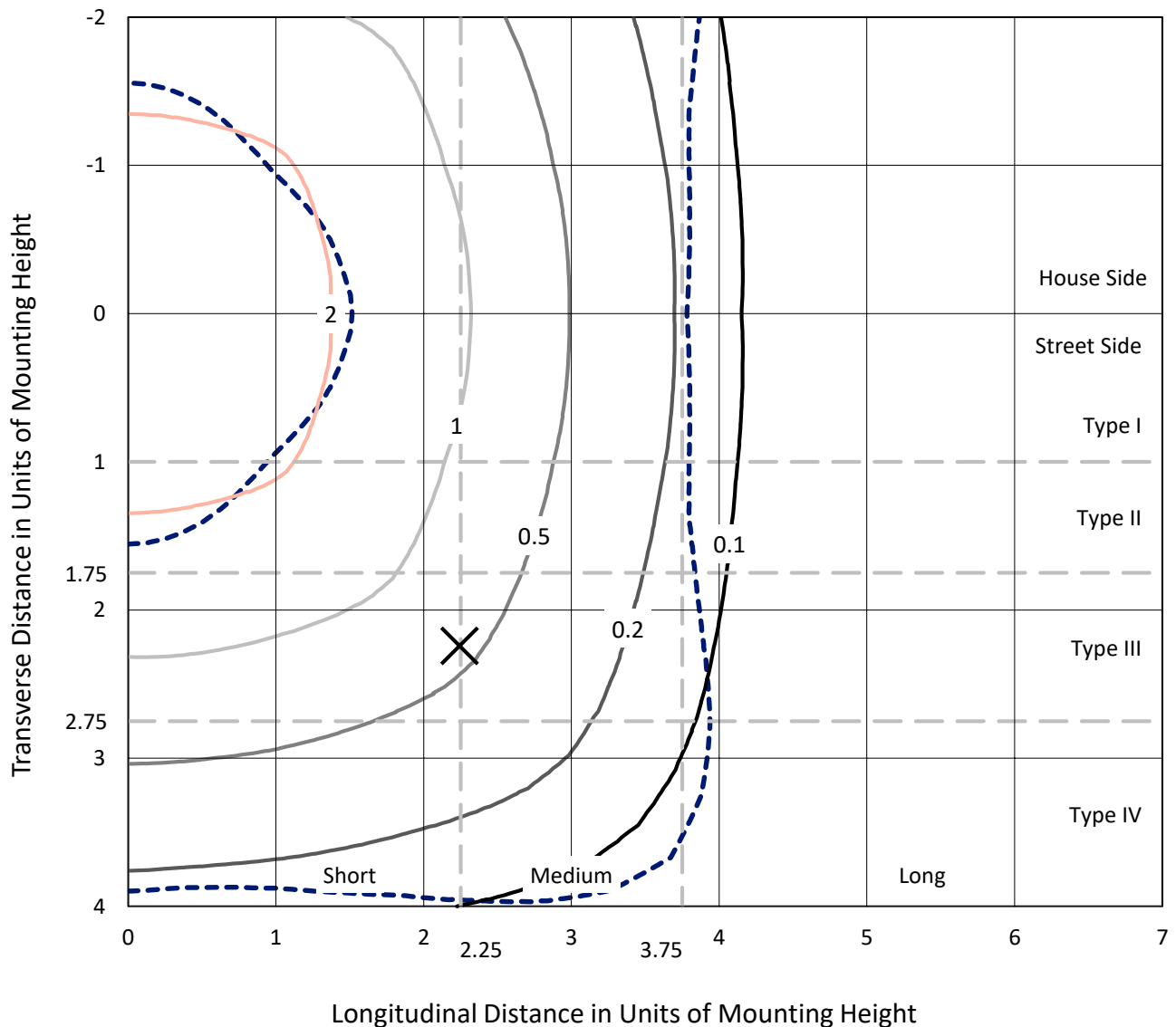


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

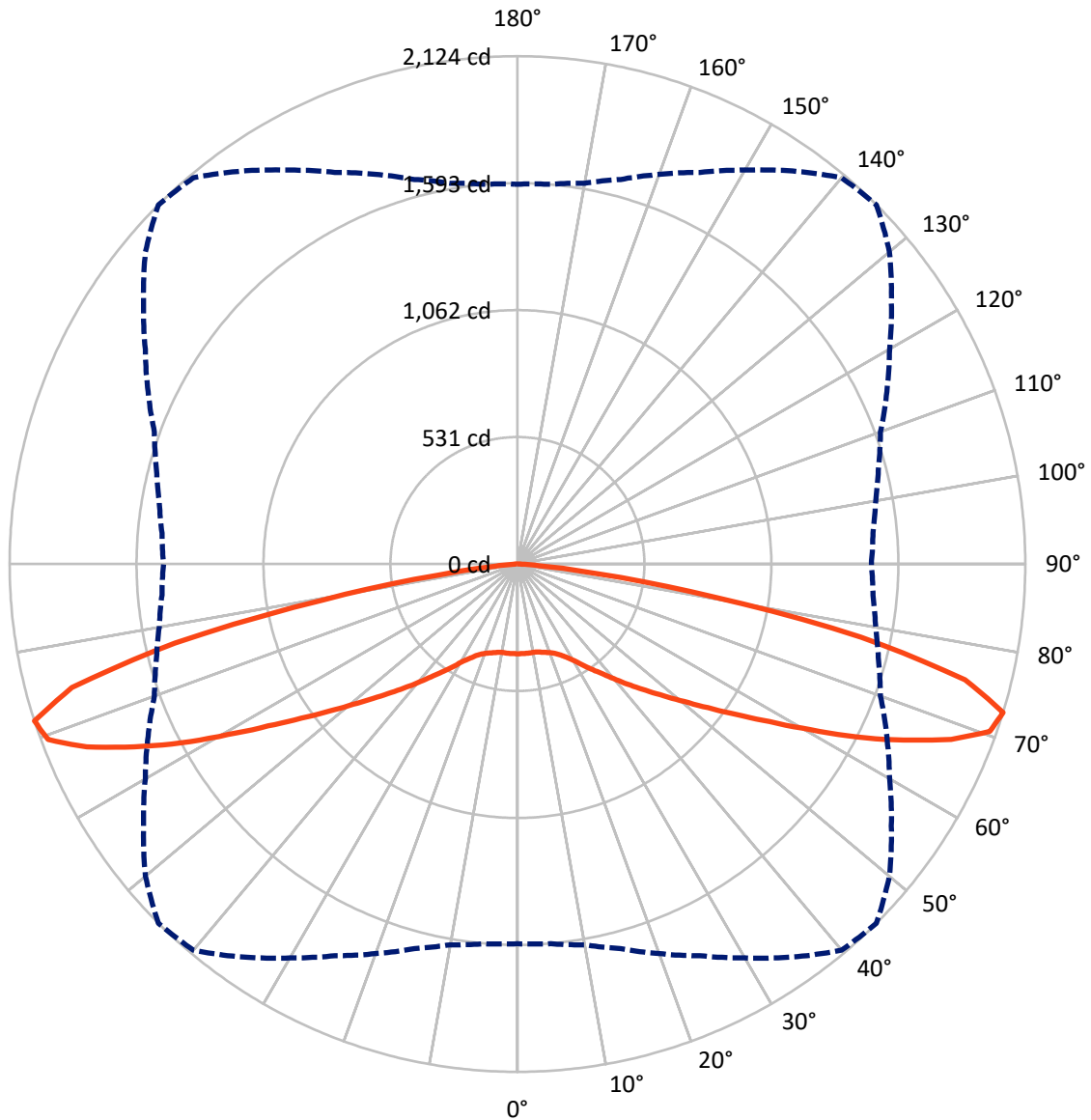


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Semi-Cutoff

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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 | 2652.0 | 0.0 | 2652.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2652.0 | 0.0 | 2652.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5304.0 | 0.0 | 5304.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.9 | 0.7 |
| 10°-20° | 108.9 | 2.1 |
| 20°-30° | 199.1 | 3.8 |
| 30°-40° | 343.2 | 6.5 |
| 40°-50° | 586.7 | 11.1 |
| 50°-60° | 951.0 | 17.9 |
| 60°-70° | 1577.7 | 29.7 |
| 70°-80° | 1389.5 | 26.2 |
| 80°-90° | 112.0 | 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° | 5304.0 | 100.0 |
| 0°-180° | 5304.0 | 100.0 |



REPORT NUMBER: P191679

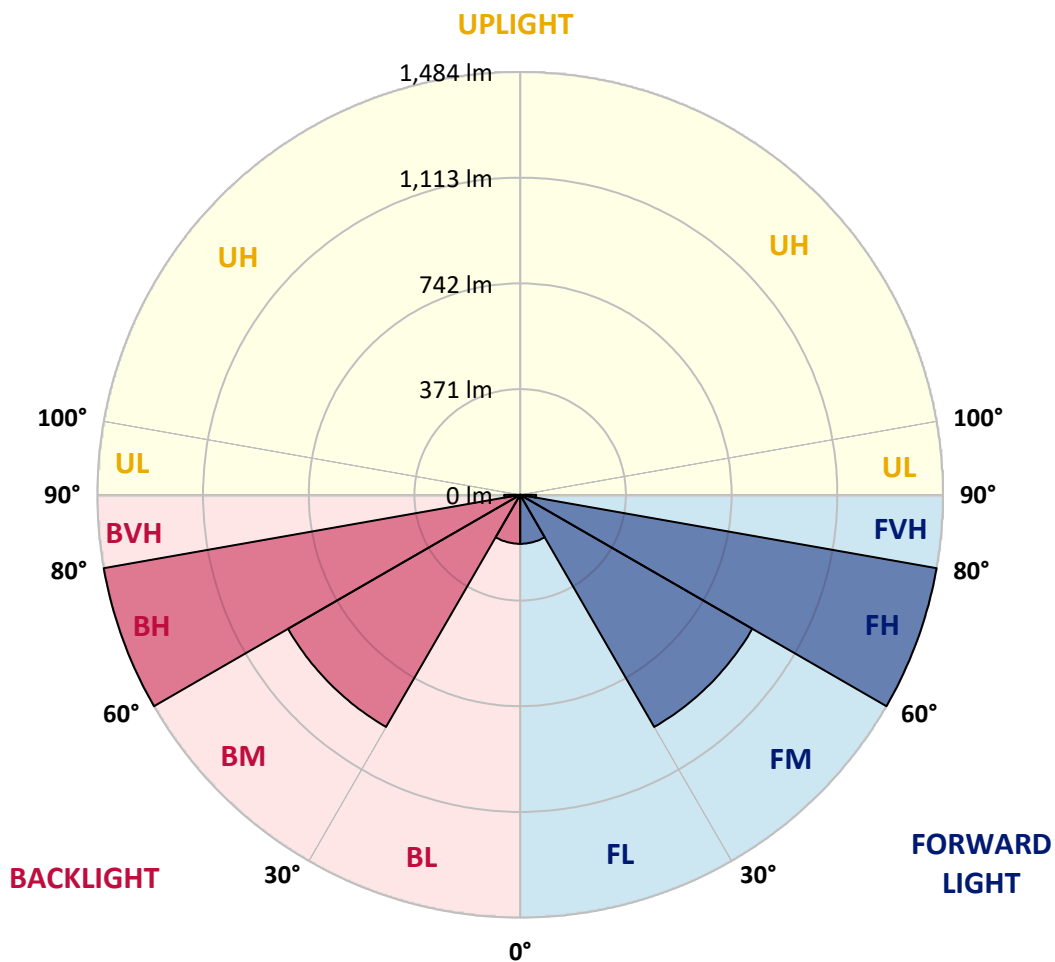
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 171.9 | 3.2 | | | |
| FM (30°-60°) | 940.5 | 17.7 | | | |
| FH (60°-80°) | 1483.6 | 28.0 | | | G1/1800 |
| FVH (80°-90°) | 56.0 | 1.1 | | | G1/100 |
| BL (0°-30°) | 171.9 | 3.2 | B1/500 | | |
| BM (30°-60°) | 940.5 | 17.7 | B1/1000 | | |
| BH (60°-80°) | 1483.6 | 28.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 56.0 | 1.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 |
| 2.5° | 375.6 | 375.8 | 376.1 | 375.8 | 375.8 | 375.6 | 375.4 | 375.6 | 375.4 | 374.9 | 375.1 |
| 5° | 376.8 | 377.3 | 377.3 | 376.8 | 377.1 | 376.8 | 376.3 | 376.6 | 376.1 | 375.4 | 375.4 |
| 7.5° | 378.3 | 378.5 | 378.5 | 378.0 | 378.3 | 377.8 | 377.3 | 377.1 | 376.6 | 375.6 | 374.9 |
| 10° | 380.5 | 380.7 | 380.5 | 380.0 | 380.0 | 379.3 | 378.0 | 377.6 | 376.6 | 375.1 | 374.4 |
| 12.5° | 382.9 | 383.1 | 382.9 | 382.4 | 382.2 | 381.0 | 380.0 | 379.3 | 378.5 | 377.3 | 376.1 |
| 15° | 386.3 | 386.8 | 386.3 | 385.3 | 384.6 | 383.6 | 383.1 | 383.4 | 383.6 | 382.7 | 381.4 |
| 17.5° | 392.6 | 392.9 | 392.1 | 390.0 | 389.0 | 388.0 | 388.0 | 388.5 | 389.2 | 388.7 | 387.5 |
| 20° | 404.3 | 403.6 | 401.9 | 399.2 | 398.0 | 396.3 | 396.0 | 396.3 | 396.3 | 396.0 | 395.1 |
| 22.5° | 418.9 | 418.4 | 416.2 | 412.8 | 411.1 | 410.1 | 408.7 | 407.5 | 407.2 | 406.5 | 405.5 |
| 25° | 436.4 | 436.2 | 433.5 | 430.6 | 429.4 | 428.2 | 426.9 | 425.2 | 423.8 | 422.1 | 421.1 |
| 27.5° | 458.8 | 457.8 | 453.9 | 452.5 | 450.8 | 450.0 | 448.3 | 446.4 | 445.2 | 443.0 | 441.8 |
| 30° | 483.4 | 483.4 | 480.2 | 479.7 | 479.7 | 478.0 | 476.1 | 472.7 | 470.5 | 468.3 | 467.6 |
| 32.5° | 507.9 | 508.2 | 505.0 | 506.0 | 506.7 | 507.9 | 508.4 | 507.2 | 505.8 | 505.5 | 504.1 |
| 35° | 543.5 | 542.5 | 539.3 | 540.1 | 539.8 | 539.6 | 539.6 | 542.2 | 542.7 | 543.2 | 540.3 |
| 37.5° | 587.5 | 587.5 | 584.3 | 584.3 | 582.9 | 581.4 | 579.5 | 581.2 | 583.8 | 584.6 | 582.6 |
| 40° | 637.8 | 639.6 | 635.7 | 635.4 | 635.9 | 631.3 | 629.1 | 631.8 | 633.5 | 636.4 | 634.2 |
| 42.5° | 697.2 | 696.0 | 692.1 | 691.6 | 688.9 | 687.5 | 685.5 | 687.7 | 690.4 | 692.3 | 693.1 |
| 45° | 754.1 | 753.2 | 748.8 | 748.8 | 746.1 | 744.9 | 745.9 | 749.5 | 750.7 | 753.4 | 756.1 |
| 47.5° | 810.3 | 809.1 | 806.2 | 807.4 | 807.6 | 809.8 | 813.0 | 816.4 | 819.8 | 823.5 | 824.7 |
| 50° | 867.7 | 868.0 | 864.8 | 867.7 | 871.4 | 877.5 | 886.0 | 891.6 | 898.6 | 903.3 | 904.7 |
| 52.5° | 920.0 | 921.0 | 924.4 | 931.2 | 938.5 | 950.4 | 965.0 | 978.7 | 990.3 | 998.1 | 997.6 |
| 55° | 982.8 | 984.3 | 992.5 | 1004.2 | 1016.1 | 1034.1 | 1055.8 | 1079.9 | 1099.3 | 1110.5 | 1103.5 |
| 57.5° | 1063.1 | 1066.2 | 1075.5 | 1091.3 | 1109.1 | 1132.4 | 1162.1 | 1198.3 | 1228.5 | 1243.6 | 1232.2 |
| 60° | 1173.3 | 1175.2 | 1186.4 | 1203.9 | 1225.3 | 1254.3 | 1293.9 | 1342.6 | 1385.2 | 1405.1 | 1392.0 |
| 62.5° | 1318.5 | 1322.2 | 1331.2 | 1348.9 | 1370.8 | 1403.7 | 1452.1 | 1512.9 | 1565.9 | 1593.6 | 1564.0 |
| 65° | 1492.0 | 1503.6 | 1511.2 | 1529.2 | 1549.6 | 1584.4 | 1635.0 | 1700.2 | 1757.1 | 1775.4 | 1741.1 |
| 67.5° | 1663.7 | 1673.9 | 1687.1 | 1707.7 | 1728.4 | 1767.6 | 1814.5 | 1877.8 | 1940.3 | 1956.8 | 1903.6 |
| 70° | 1738.9 | 1744.7 | 1765.2 | 1793.4 | 1833.0 | 1879.2 | 1933.5 | 2004.5 | 2081.9 | 2095.5 | 2027.9 |
| 72.5° | 1588.3 | 1594.1 | 1617.0 | 1664.9 | 1734.0 | 1807.5 | 1902.1 | 2006.5 | 2108.6 | 2124.0 | 2030.8 |
| 75° | 1201.3 | 1191.8 | 1225.6 | 1289.1 | 1382.2 | 1484.7 | 1617.0 | 1766.6 | 1914.3 | 1933.5 | 1822.3 |
| 77.5° | 620.8 | 619.6 | 645.1 | 724.0 | 835.1 | 951.7 | 1097.4 | 1266.5 | 1411.0 | 1469.3 | 1378.8 |
| 80° | 174.9 | 176.9 | 189.0 | 228.2 | 293.1 | 377.3 | 491.2 | 649.5 | 767.8 | 828.1 | 777.5 |
| 82.5° | 68.6 | 74.0 | 78.6 | 85.9 | 94.4 | 106.8 | 142.6 | 212.1 | 284.6 | 340.1 | 278.5 |
| 85° | 24.6 | 26.3 | 37.2 | 44.0 | 44.8 | 47.2 | 53.8 | 62.8 | 75.7 | 90.3 | 74.2 |
| 87.5° | 9.2 | 10.2 | 11.9 | 19.7 | 19.5 | 17.8 | 21.7 | 22.6 | 17.0 | 15.6 | 19.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P191679

CATALOG NUMBER: GLEON-AF-01-LED-E1-5WQ-7050-800

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 | 375.6 |
| 2.5° | 374.6 | 374.9 | 374.9 | 375.1 | 375.4 | 375.4 | 375.8 | 375.8 |
| 5° | 374.9 | 374.9 | 374.4 | 374.6 | 374.4 | 374.4 | 374.6 | 374.6 |
| 7.5° | 374.4 | 374.1 | 373.7 | 373.4 | 372.9 | 372.9 | 372.9 | 372.9 |
| 10° | 373.7 | 373.4 | 372.9 | 372.7 | 372.4 | 372.4 | 372.4 | 372.4 |
| 12.5° | 375.6 | 374.9 | 374.4 | 374.1 | 374.1 | 374.1 | 374.1 | 374.1 |
| 15° | 380.7 | 379.0 | 377.8 | 377.8 | 378.0 | 378.5 | 378.5 | 379.0 |
| 17.5° | 387.0 | 385.1 | 383.9 | 382.9 | 383.4 | 384.1 | 384.6 | 385.1 |
| 20° | 394.6 | 393.6 | 391.9 | 390.9 | 390.9 | 391.9 | 392.4 | 392.6 |
| 22.5° | 405.0 | 404.3 | 403.6 | 402.4 | 402.4 | 402.9 | 403.8 | 403.8 |
| 25° | 420.6 | 420.1 | 419.6 | 418.7 | 418.4 | 418.4 | 418.9 | 419.4 |
| 27.5° | 440.1 | 440.3 | 439.8 | 439.6 | 438.9 | 438.6 | 439.3 | 439.1 |
| 30° | 466.1 | 467.3 | 468.5 | 467.6 | 466.3 | 465.6 | 464.9 | 463.9 |
| 32.5° | 501.4 | 499.9 | 498.9 | 497.2 | 495.1 | 493.1 | 491.6 | 489.9 |
| 35° | 534.7 | 532.3 | 531.3 | 532.8 | 532.5 | 531.3 | 529.6 | 528.1 |
| 37.5° | 575.6 | 575.1 | 575.6 | 578.2 | 577.8 | 579.0 | 575.6 | 575.3 |
| 40° | 627.1 | 627.6 | 631.0 | 634.2 | 635.9 | 637.6 | 635.7 | 633.7 |
| 42.5° | 687.0 | 686.7 | 688.0 | 692.3 | 695.3 | 697.2 | 693.1 | 692.6 |
| 45° | 750.2 | 748.5 | 749.5 | 753.2 | 756.1 | 758.3 | 753.6 | 753.6 |
| 47.5° | 819.8 | 816.9 | 813.7 | 817.9 | 819.6 | 821.0 | 817.4 | 816.2 |
| 50° | 897.4 | 891.3 | 884.5 | 886.2 | 886.2 | 885.7 | 881.1 | 880.9 |
| 52.5° | 986.5 | 975.3 | 962.9 | 958.2 | 955.6 | 952.6 | 944.6 | 940.7 |
| 55° | 1088.9 | 1072.1 | 1052.6 | 1040.7 | 1034.4 | 1026.3 | 1013.0 | 1009.3 |
| 57.5° | 1208.6 | 1182.3 | 1148.7 | 1134.1 | 1120.0 | 1106.9 | 1092.0 | 1087.9 |
| 60° | 1350.4 | 1311.7 | 1267.2 | 1240.2 | 1224.9 | 1212.2 | 1196.9 | 1196.1 |
| 62.5° | 1508.5 | 1447.4 | 1397.1 | 1372.8 | 1361.6 | 1350.4 | 1335.8 | 1337.7 |
| 65° | 1669.3 | 1605.6 | 1558.4 | 1538.7 | 1528.2 | 1519.0 | 1504.4 | 1506.6 |
| 67.5° | 1827.9 | 1769.3 | 1717.5 | 1697.3 | 1685.6 | 1673.9 | 1660.8 | 1663.0 |
| 70° | 1941.8 | 1869.0 | 1810.6 | 1765.9 | 1737.9 | 1706.3 | 1685.8 | 1680.7 |
| 72.5° | 1909.2 | 1797.0 | 1704.3 | 1615.5 | 1563.5 | 1521.2 | 1492.4 | 1480.0 |
| 75° | 1652.3 | 1499.0 | 1379.8 | 1270.8 | 1209.5 | 1159.7 | 1123.4 | 1100.8 |
| 77.5° | 1227.0 | 1054.8 | 914.0 | 788.4 | 689.2 | 622.5 | 575.6 | 545.2 |
| 80° | 671.7 | 510.9 | 373.4 | 262.5 | 192.9 | 160.3 | 141.6 | 132.6 |
| 82.5° | 209.2 | 135.0 | 99.5 | 85.9 | 79.8 | 76.4 | 70.8 | 61.8 |
| 85° | 66.7 | 58.4 | 54.2 | 51.8 | 49.4 | 43.1 | 29.7 | 27.0 |
| 87.5° | 25.8 | 26.5 | 26.3 | 24.8 | 25.3 | 18.2 | 14.6 | 12.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)