

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640181

Luminaire Tested: GWS-SA5D-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29031.3 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

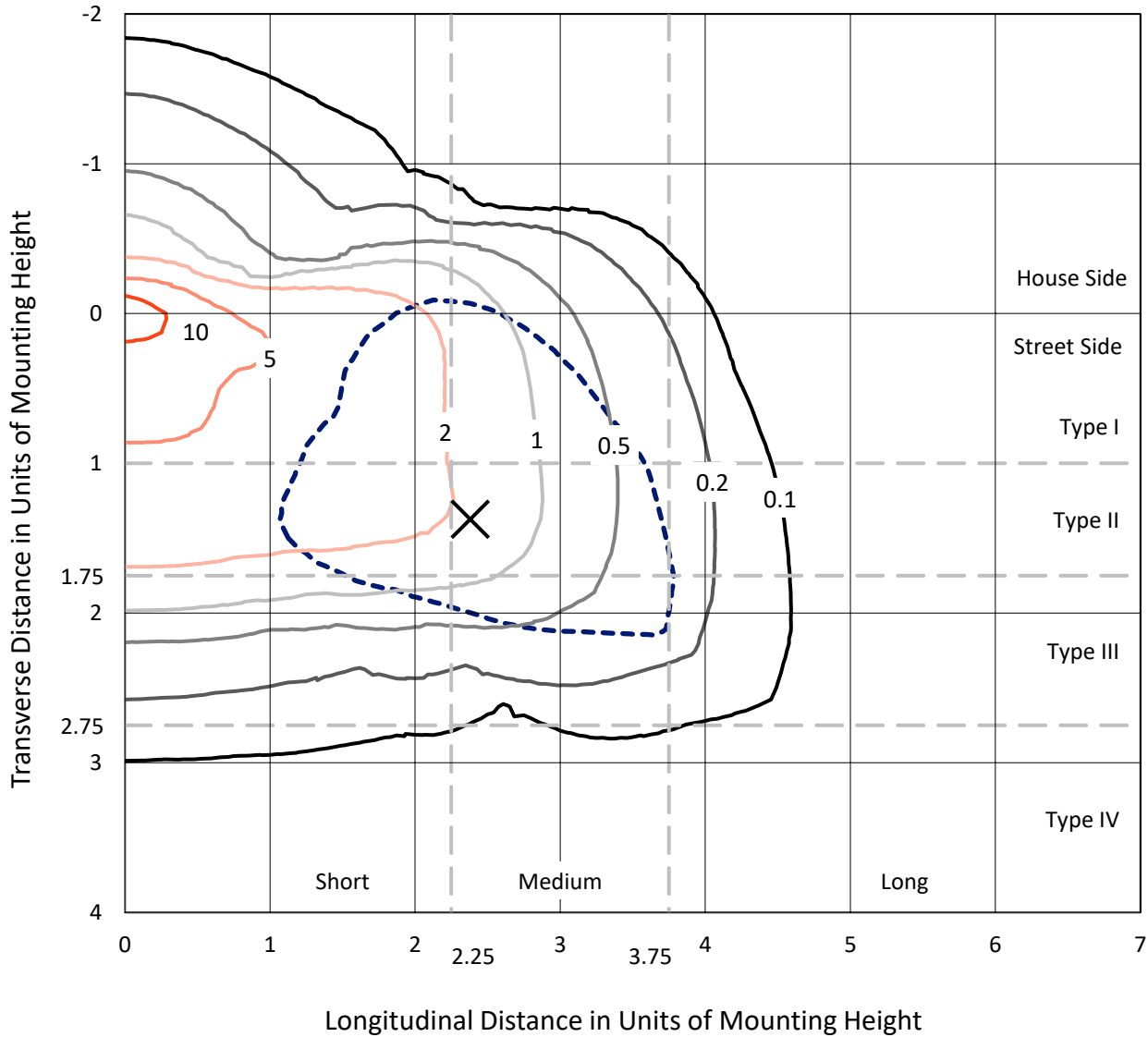
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

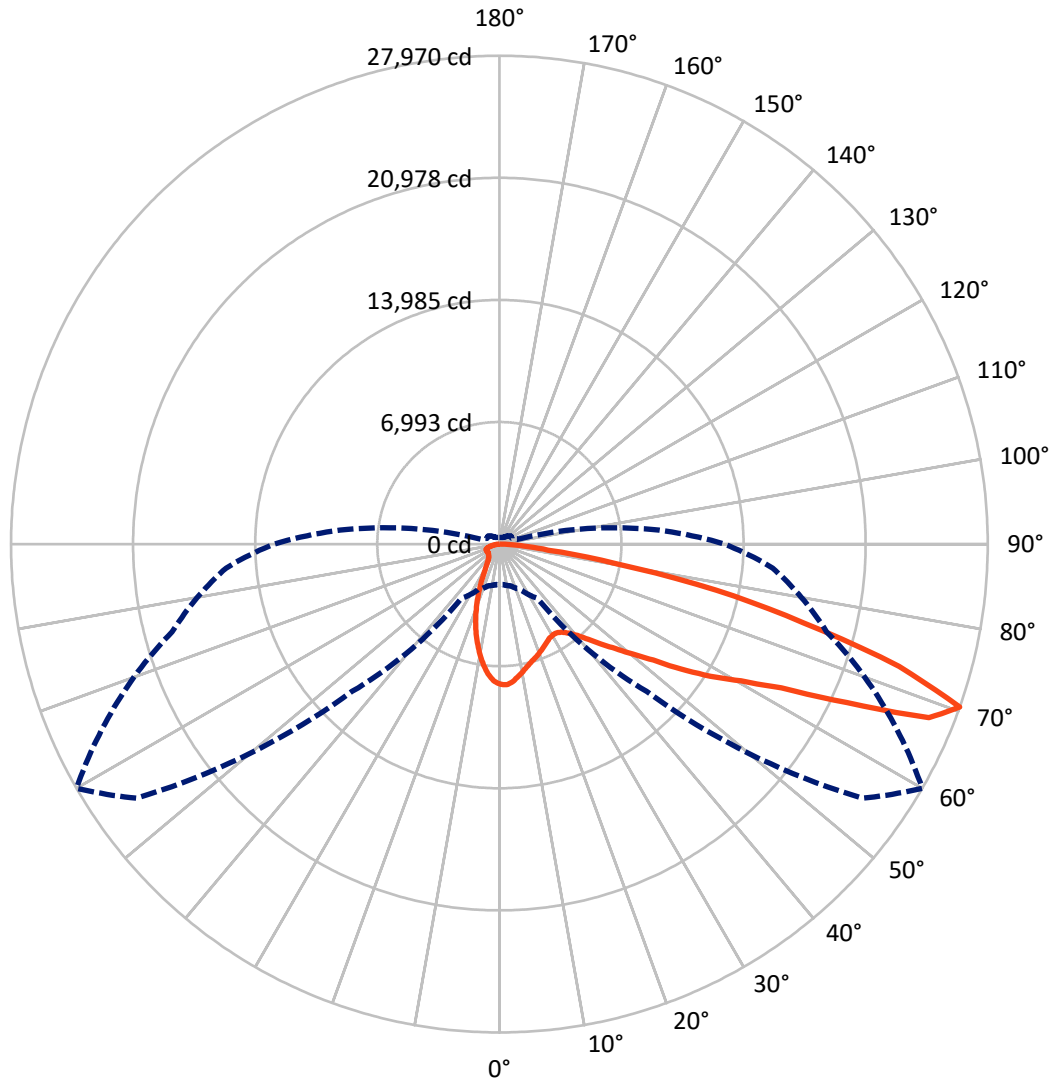
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4965.0 | 0.0 | 4965.0 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 24066.3 | 0.0 | 24066.3 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 29031.3 | 0.0 | 29031.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 692.4 | 2.4 |
| 10°-20° | 1551.3 | 5.3 |
| 20°-30° | 1986.7 | 6.8 |
| 30°-40° | 2611.0 | 9.0 |
| 40°-50° | 3788.1 | 13.0 |
| 50°-60° | 5910.4 | 20.4 |
| 60°-70° | 7737.8 | 26.7 |
| 70°-80° | 4278.8 | 14.7 |
| 80°-90° | 474.8 | 1.6 |
| 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° | 29031.3 | 100.0 |
| 0°-180° | 29031.3 | 100.0 |

Coefficient of Utilization



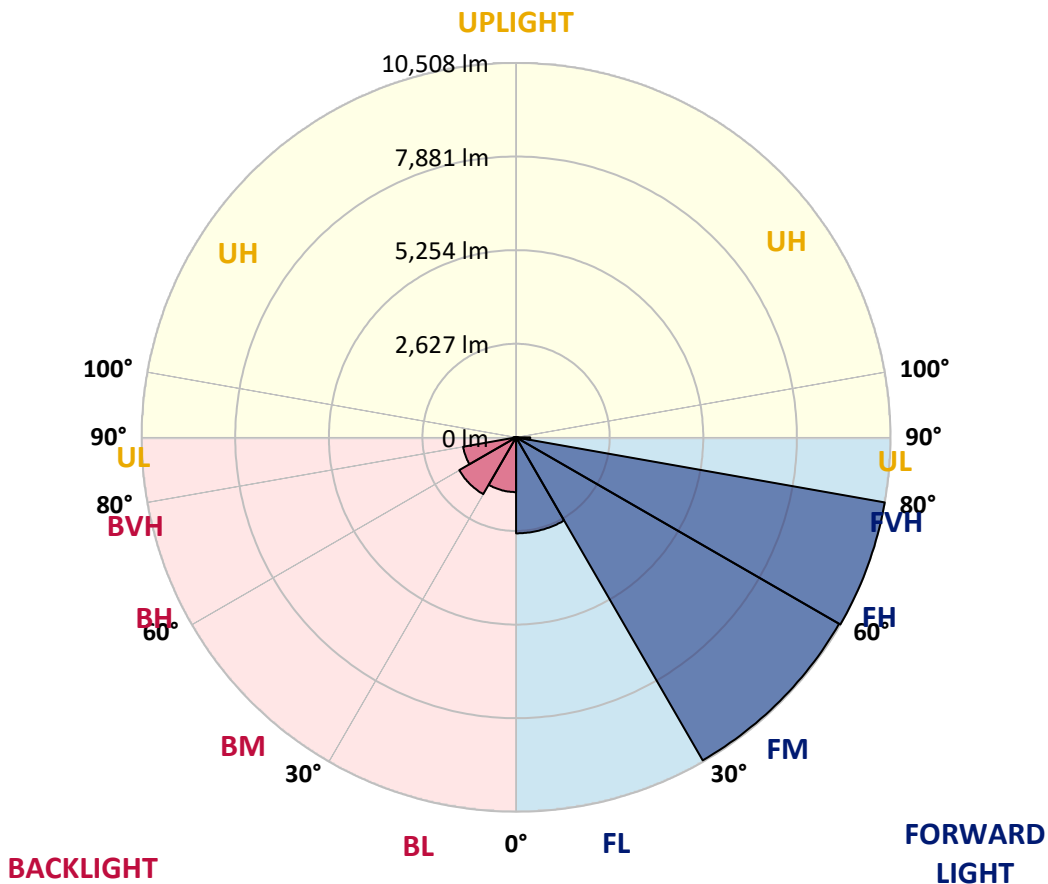
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CATALOG NUMBER: GWS-SA5D-735-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2694.3 | 9.3 | | | |
| FM (30°-60°) | 10468.6 | 36.1 | | | |
| FH (60°-80°) | 10507.7 | 36.2 | | | G4/12000 |
| FVH (80°-90°) | 395.7 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1536.1 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 1840.9 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 1508.9 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 79.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 |
| 2.5° | 7920.8 | 7929.3 | 7952.6 | 7986.6 | 8020.6 | 8037.6 | 8080.1 | 8067.3 | 8058.8 | 8041.8 | 8020.6 |
| 5° | 7570.3 | 7587.3 | 7608.5 | 7674.4 | 7748.7 | 7808.2 | 7903.8 | 7914.4 | 7918.6 | 7927.1 | 7893.1 |
| 7.5° | 7124.2 | 7128.5 | 7179.4 | 7266.5 | 7364.2 | 7466.2 | 7625.5 | 7670.1 | 7708.3 | 7750.8 | 7723.2 |
| 10° | 6631.4 | 6642.1 | 6680.3 | 6805.6 | 6973.4 | 7124.2 | 7338.8 | 7413.1 | 7493.8 | 7587.3 | 7549.0 |
| 12.5° | 6227.9 | 6230.0 | 6291.6 | 6425.4 | 6608.1 | 6812.0 | 7079.6 | 7168.8 | 7275.0 | 7421.6 | 7387.6 |
| 15° | 5907.1 | 5907.1 | 5964.5 | 6079.2 | 6289.5 | 6529.5 | 6848.1 | 6962.8 | 7107.2 | 7304.8 | 7245.3 |
| 17.5° | 5652.2 | 5654.3 | 5690.5 | 5811.5 | 5998.5 | 6264.0 | 6642.1 | 6797.1 | 6956.4 | 7217.7 | 7128.5 |
| 20° | 5518.4 | 5507.8 | 5514.2 | 5588.5 | 5747.8 | 6004.8 | 6436.0 | 6616.6 | 6831.1 | 7158.2 | 7022.3 |
| 22.5° | 5512.0 | 5492.9 | 5465.3 | 5471.7 | 5565.1 | 5777.5 | 6215.1 | 6433.9 | 6703.7 | 7109.4 | 6913.9 |
| 25° | 5620.4 | 5599.1 | 5550.3 | 5495.0 | 5486.5 | 5614.0 | 6006.9 | 6255.5 | 6572.0 | 7088.1 | 6809.9 |
| 27.5° | 5803.0 | 5788.2 | 5724.4 | 5641.6 | 5554.5 | 5550.3 | 5849.8 | 6108.9 | 6476.4 | 7109.4 | 6735.5 |
| 30° | 6045.2 | 6019.7 | 5979.3 | 5873.1 | 5741.4 | 5605.5 | 5788.2 | 6030.3 | 6412.7 | 7177.3 | 6703.7 |
| 32.5° | 6319.2 | 6304.3 | 6266.1 | 6159.9 | 6019.7 | 5803.0 | 5837.0 | 6047.3 | 6412.7 | 7296.3 | 6710.0 |
| 35° | 6610.2 | 6608.1 | 6608.1 | 6538.0 | 6382.9 | 6113.2 | 6030.3 | 6191.7 | 6510.4 | 7487.4 | 6778.0 |
| 37.5° | 6892.7 | 6890.6 | 6958.5 | 6984.0 | 6807.7 | 6516.7 | 6359.5 | 6480.6 | 6724.9 | 7769.9 | 6945.8 |
| 40° | 7122.1 | 7130.6 | 7279.3 | 7406.7 | 7309.0 | 7039.3 | 6818.4 | 6880.0 | 7073.2 | 8171.4 | 7238.9 |
| 42.5° | 7353.6 | 7377.0 | 7600.0 | 7825.2 | 7863.4 | 7629.8 | 7406.7 | 7442.8 | 7572.4 | 8702.4 | 7676.5 |
| 45° | 7606.4 | 7617.0 | 7929.3 | 8243.6 | 8428.4 | 8290.4 | 8107.7 | 8156.5 | 8186.3 | 9358.8 | 8328.6 |
| 47.5° | 7850.7 | 7878.3 | 8281.9 | 8713.0 | 9063.5 | 9050.8 | 8948.8 | 8934.0 | 8940.3 | 10157.4 | 9099.6 |
| 50° | 8184.1 | 8224.5 | 8698.2 | 9218.6 | 9732.6 | 9968.4 | 9998.1 | 9885.5 | 9838.8 | 11045.3 | 10059.7 |
| 52.5° | 8817.1 | 8817.1 | 9241.9 | 9753.9 | 10444.2 | 11028.3 | 11228.0 | 11043.2 | 10894.5 | 11984.2 | 11079.3 |
| 55° | 9609.4 | 9643.4 | 9981.1 | 10395.3 | 11270.5 | 12143.5 | 12818.9 | 12615.0 | 12194.4 | 13005.8 | 12147.7 |
| 57.5° | 9962.0 | 10004.5 | 10539.8 | 11183.4 | 12351.6 | 13411.6 | 14348.3 | 14276.1 | 13662.2 | 14067.9 | 13256.5 |
| 60° | 9324.8 | 9414.0 | 10151.1 | 11230.1 | 13330.8 | 15457.1 | 16117.7 | 15907.4 | 15030.1 | 15183.0 | 14458.7 |
| 62.5° | 7778.4 | 7876.2 | 8693.9 | 10199.9 | 13194.9 | 17668.2 | 18906.6 | 18131.3 | 16737.9 | 16591.3 | 16060.3 |
| 65° | 4641.2 | 4636.9 | 5620.4 | 7617.0 | 11519.0 | 18282.1 | 23320.5 | 21874.0 | 19376.0 | 18524.3 | 17708.6 |
| 67.5° | 2950.4 | 2944.0 | 3150.0 | 4035.8 | 7665.9 | 16778.2 | 26158.3 | 26534.2 | 22959.4 | 19945.3 | 17844.5 |
| 70° | 2328.0 | 2325.9 | 2474.6 | 2878.2 | 3791.5 | 11939.6 | 25368.1 | 27970.1 | 25123.8 | 19403.6 | 15711.9 |
| 72.5° | 1697.2 | 1701.4 | 1930.8 | 2410.9 | 2924.9 | 5994.2 | 20542.1 | 23932.2 | 23108.1 | 17128.7 | 12755.2 |
| 75° | 1219.2 | 1225.6 | 1363.7 | 1845.8 | 2697.6 | 3277.5 | 13660.1 | 17995.4 | 17581.2 | 13730.2 | 8774.6 |
| 77.5° | 775.3 | 783.8 | 904.9 | 1293.6 | 2179.3 | 2646.6 | 8281.9 | 12704.2 | 11697.4 | 7736.0 | 3120.3 |
| 80° | 473.7 | 501.3 | 603.2 | 964.3 | 1741.8 | 1986.0 | 4139.9 | 6693.0 | 5858.3 | 2122.0 | 1049.3 |
| 82.5° | 244.3 | 265.5 | 363.2 | 596.9 | 1200.1 | 1743.9 | 2342.9 | 2812.3 | 1814.0 | 887.9 | 558.6 |
| 85° | 76.5 | 89.2 | 127.4 | 242.1 | 571.4 | 1081.2 | 1550.6 | 1397.7 | 832.6 | 418.4 | 259.1 |
| 87.5° | 19.1 | 19.1 | 21.2 | 21.2 | 23.4 | 48.9 | 299.5 | 316.5 | 220.9 | 131.7 | 106.2 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 | 8033.3 |
| 2.5° | 7978.1 | 7927.1 | 7905.9 | 7903.8 | 7850.7 | 7774.2 | 7723.2 | 7687.1 | 7665.9 | 7661.6 | 7661.6 |
| 5° | 7835.8 | 7769.9 | 7682.9 | 7617.0 | 7474.7 | 7330.3 | 7209.2 | 7141.2 | 7062.6 | 7052.0 | 7049.9 |
| 7.5° | 7646.8 | 7551.2 | 7385.5 | 7200.7 | 6952.2 | 6712.1 | 6508.2 | 6370.2 | 6232.1 | 6206.6 | 6198.1 |
| 10° | 7442.8 | 7313.3 | 7030.8 | 6705.8 | 6334.1 | 5975.1 | 5662.8 | 5418.6 | 5257.1 | 5142.4 | 5121.2 |
| 12.5° | 7241.0 | 7069.0 | 6654.8 | 6170.5 | 5660.7 | 5170.1 | 4700.6 | 4301.3 | 4012.4 | 3844.6 | 3814.9 |
| 15° | 7052.0 | 6812.0 | 6244.8 | 5626.7 | 4964.0 | 4292.8 | 3628.0 | 3109.7 | 2704.0 | 2559.5 | 2525.6 |
| 17.5° | 6880.0 | 6580.5 | 5847.6 | 5063.8 | 4237.6 | 3360.3 | 2604.1 | 2143.2 | 1905.3 | 1833.1 | 1816.1 |
| 20° | 6707.9 | 6342.6 | 5444.1 | 4471.2 | 3466.5 | 2483.1 | 1903.2 | 1686.5 | 1597.3 | 1569.7 | 1561.2 |
| 22.5° | 6523.1 | 6081.3 | 5004.4 | 3887.1 | 2687.0 | 1858.6 | 1557.0 | 1461.4 | 1433.8 | 1435.9 | 1433.8 |
| 25° | 6338.3 | 5815.8 | 4543.4 | 3252.0 | 2000.9 | 1508.1 | 1359.4 | 1323.3 | 1329.7 | 1348.8 | 1353.1 |
| 27.5° | 6185.4 | 5580.0 | 4091.0 | 2555.3 | 1563.3 | 1297.8 | 1227.7 | 1225.6 | 1249.0 | 1274.5 | 1278.7 |
| 30° | 6074.9 | 5369.7 | 3645.0 | 1964.8 | 1287.2 | 1153.4 | 1125.8 | 1138.5 | 1166.1 | 1185.2 | 1191.6 |
| 32.5° | 5996.3 | 5189.2 | 3169.2 | 1544.2 | 1127.9 | 1051.4 | 1038.7 | 1051.4 | 1068.4 | 1087.5 | 1091.8 |
| 35° | 5968.7 | 5057.5 | 2701.9 | 1259.6 | 1019.6 | 977.1 | 968.6 | 975.0 | 983.5 | 994.1 | 998.3 |
| 37.5° | 6030.3 | 4991.6 | 2213.3 | 1096.0 | 953.7 | 928.2 | 915.5 | 911.2 | 913.4 | 917.6 | 919.7 |
| 40° | 6213.0 | 5021.4 | 1814.0 | 1000.4 | 911.2 | 887.9 | 866.6 | 858.1 | 856.0 | 860.3 | 858.1 |
| 42.5° | 6527.4 | 5146.7 | 1525.1 | 945.2 | 877.3 | 843.3 | 819.9 | 811.4 | 811.4 | 822.0 | 822.0 |
| 45° | 6988.3 | 5393.1 | 1316.9 | 904.9 | 847.5 | 805.0 | 779.5 | 775.3 | 783.8 | 800.8 | 802.9 |
| 47.5° | 7663.7 | 5754.2 | 1191.6 | 875.1 | 819.9 | 771.0 | 745.6 | 743.4 | 760.4 | 788.0 | 790.2 |
| 50° | 8464.5 | 6274.6 | 1123.6 | 853.9 | 800.8 | 743.4 | 717.9 | 720.1 | 739.2 | 768.9 | 775.3 |
| 52.5° | 9428.9 | 6984.0 | 1127.9 | 845.4 | 790.2 | 726.4 | 701.0 | 696.7 | 715.8 | 745.6 | 751.9 |
| 55° | 10425.1 | 7846.4 | 1210.7 | 847.5 | 775.3 | 717.9 | 684.0 | 669.1 | 686.1 | 707.3 | 709.4 |
| 57.5° | 11521.1 | 8819.3 | 1416.8 | 843.3 | 756.2 | 709.4 | 669.1 | 635.1 | 645.7 | 658.5 | 664.8 |
| 60° | 12757.3 | 9964.1 | 1860.7 | 851.8 | 747.7 | 690.3 | 639.4 | 594.7 | 592.6 | 601.1 | 603.2 |
| 62.5° | 14409.9 | 11521.1 | 2359.9 | 866.6 | 766.8 | 667.0 | 594.7 | 548.0 | 539.5 | 543.8 | 545.9 |
| 65° | 15673.7 | 12264.5 | 2202.7 | 853.9 | 807.2 | 650.0 | 552.3 | 503.4 | 486.4 | 482.2 | 482.2 |
| 67.5° | 15159.7 | 11281.1 | 1533.6 | 819.9 | 826.3 | 652.1 | 518.3 | 456.7 | 435.4 | 424.8 | 422.7 |
| 70° | 12899.6 | 9163.4 | 1066.3 | 785.9 | 805.0 | 647.8 | 482.2 | 418.4 | 390.8 | 376.0 | 373.8 |
| 72.5° | 10191.4 | 6996.8 | 862.4 | 717.9 | 730.7 | 584.1 | 429.1 | 376.0 | 352.6 | 333.5 | 333.5 |
| 75° | 6559.2 | 4269.4 | 720.1 | 639.4 | 596.9 | 454.6 | 371.7 | 335.6 | 312.2 | 293.1 | 293.1 |
| 77.5° | 2206.9 | 1584.6 | 558.6 | 541.6 | 446.1 | 342.0 | 312.2 | 288.9 | 269.8 | 252.8 | 250.6 |
| 80° | 896.4 | 751.9 | 410.0 | 410.0 | 312.2 | 261.3 | 244.3 | 233.7 | 220.9 | 199.7 | 199.7 |
| 82.5° | 520.4 | 456.7 | 286.8 | 248.5 | 208.2 | 180.5 | 169.9 | 159.3 | 159.3 | 144.4 | 144.4 |
| 85° | 250.6 | 252.8 | 172.1 | 152.9 | 118.9 | 104.1 | 99.8 | 93.5 | 91.3 | 82.8 | 80.7 |
| 87.5° | 135.9 | 138.1 | 87.1 | 68.0 | 46.7 | 40.4 | 34.0 | 31.9 | 29.7 | 27.6 | 27.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)