

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: P640858

Luminaire Tested: GWS-SA5E-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33333.6 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

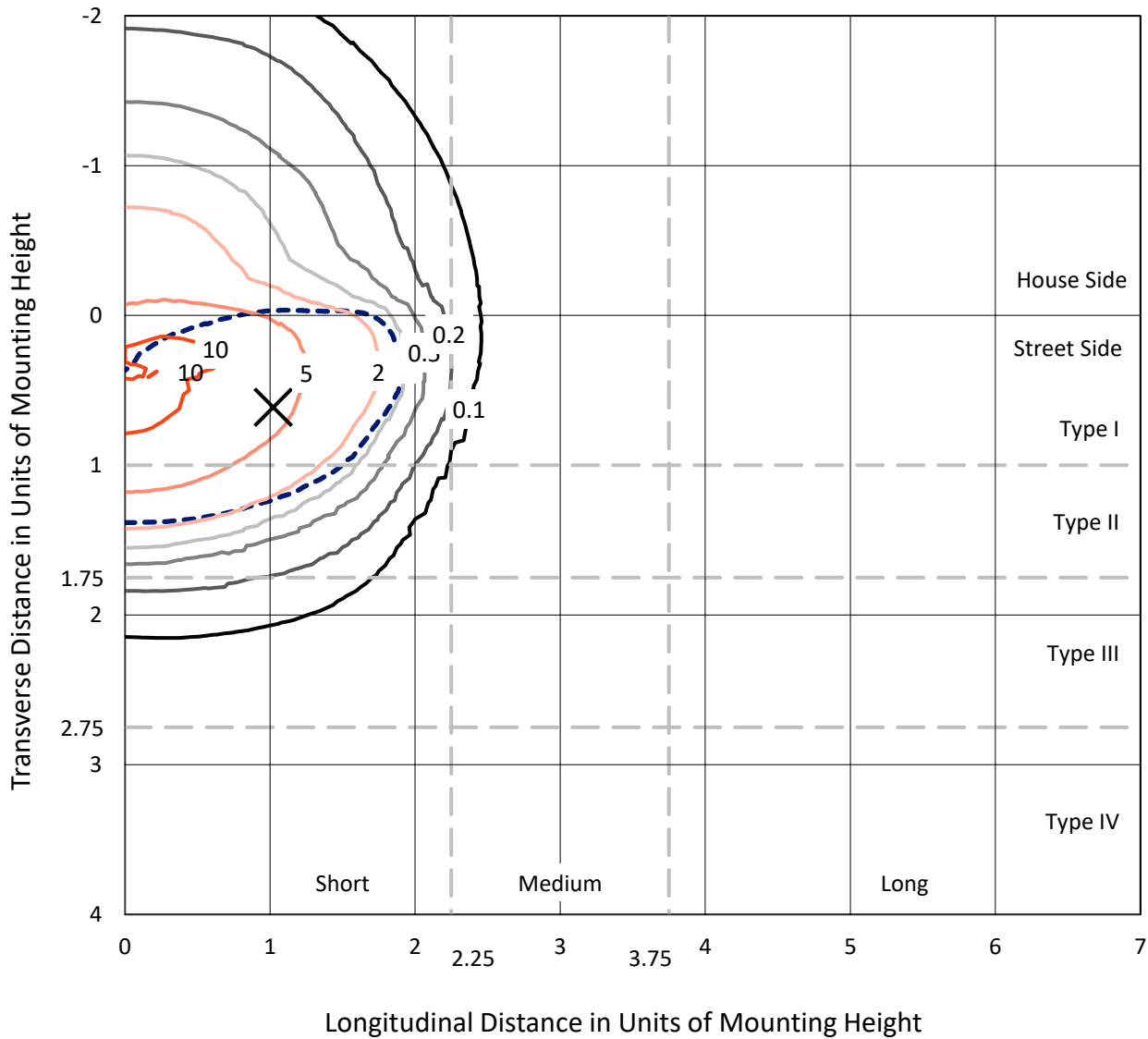
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

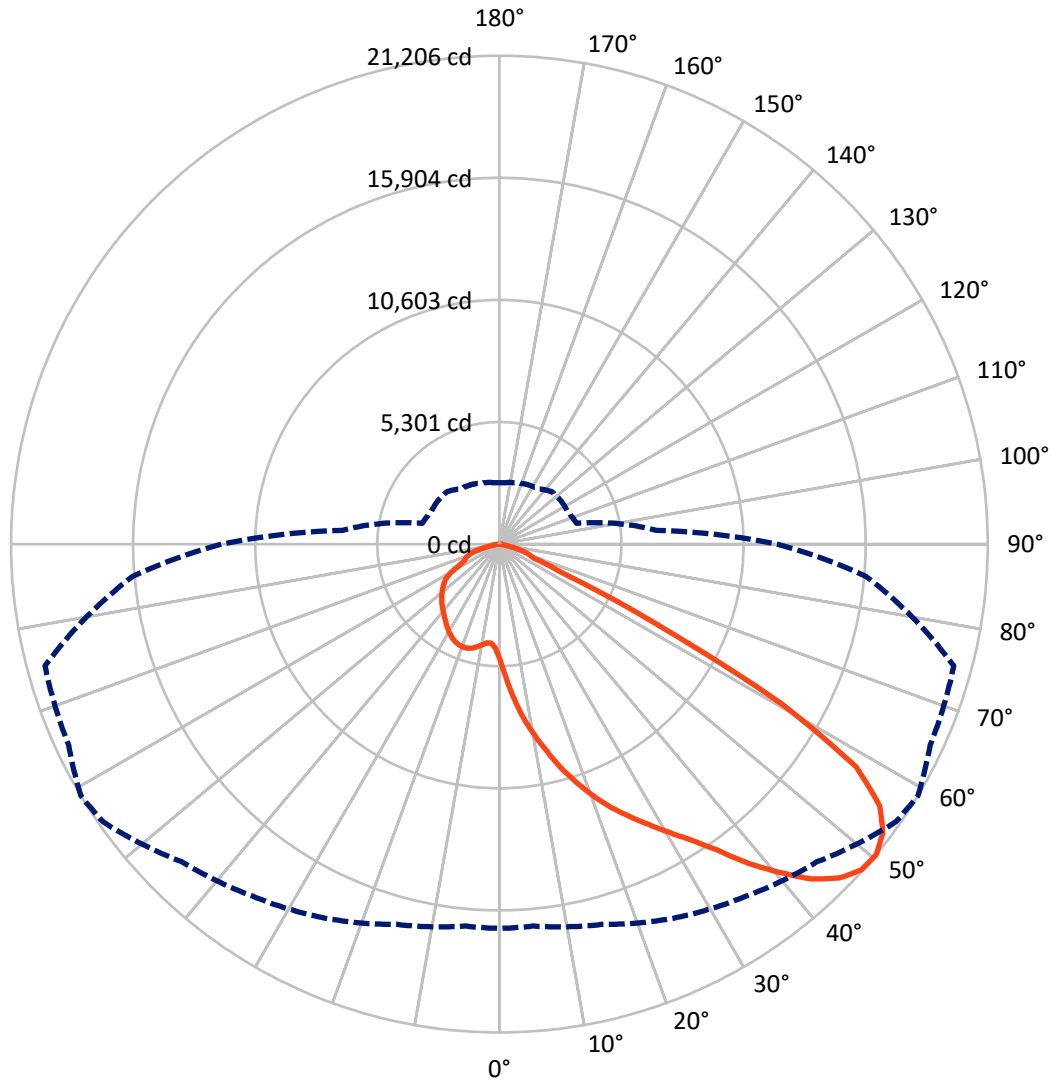
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7667.4 | 0.0 | 7667.4 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 25666.2 | 0.0 | 25666.2 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 33333.6 | 0.0 | 33333.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 566.5 | 1.7 |
| 10°-20° | 2056.7 | 6.2 |
| 20°-30° | 3894.5 | 11.7 |
| 30°-40° | 6458.4 | 19.4 |
| 40°-50° | 8822.5 | 26.5 |
| 50°-60° | 8008.5 | 24.0 |
| 60°-70° | 2666.9 | 8.0 |
| 70°-80° | 777.8 | 2.3 |
| 80°-90° | 81.7 | 0.2 |
| 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° | 33333.6 | 100.0 |
| 0°-180° | 33333.6 | 100.0 |

Coefficient of Utilization



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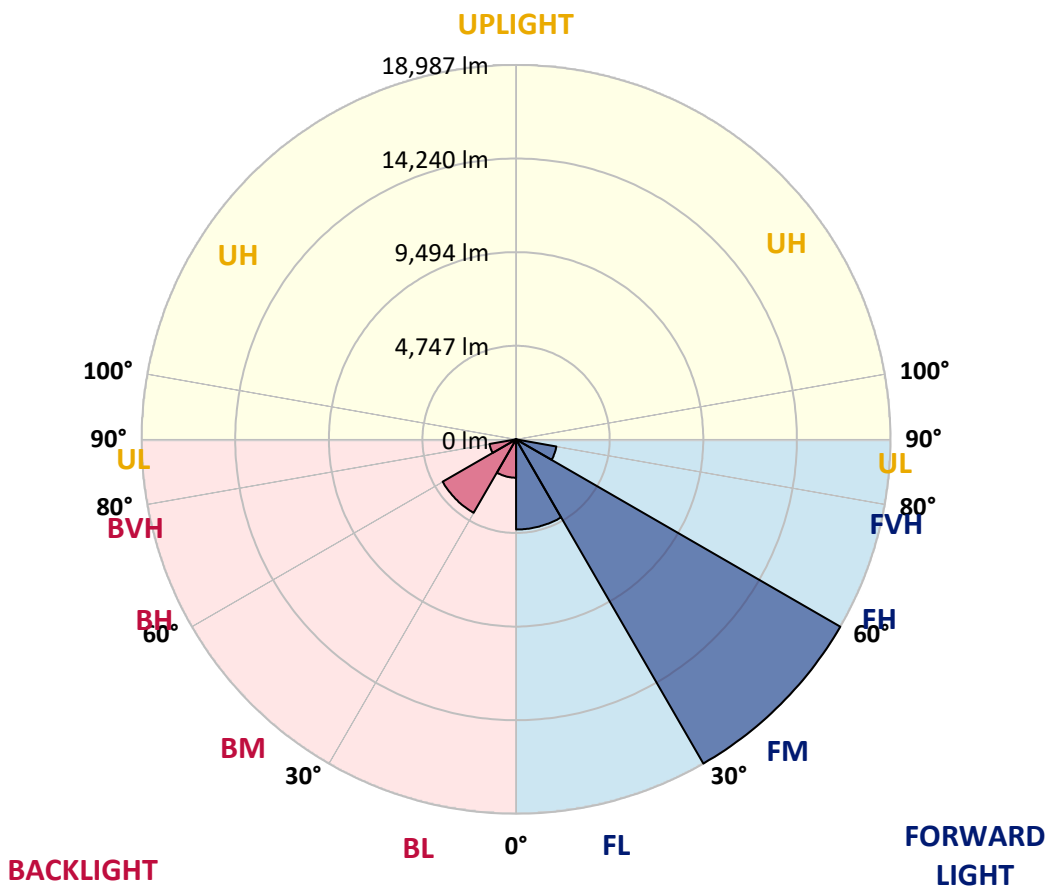
CATALOG NUMBER: GWS-SA5E-760-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4570.9 | 13.7 | | | |
| FM (30°-60°) | 18987.2 | 57.0 | | | |
| FH (60°-80°) | 2076.2 | 6.2 | | | G2/5000 |
| FVH (80°-90°) | 31.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1946.9 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 4302.1 | 12.9 | B3/5000 | | |
| BH (60°-80°) | 1368.5 | 4.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 49.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 |
| 2.5° | 6543.6 | 6592.5 | 6516.5 | 6521.9 | 6331.9 | 6245.0 | 6000.6 | 5856.7 | 5761.7 | 5495.6 | 5253.9 |
| 5° | 7863.2 | 7806.2 | 7746.5 | 7711.2 | 7545.5 | 7312.0 | 7007.9 | 6766.3 | 6543.6 | 6022.3 | 5520.0 |
| 7.5° | 8672.4 | 8642.5 | 8601.8 | 8580.0 | 8417.1 | 8172.8 | 7868.7 | 7662.3 | 7339.2 | 6633.2 | 5843.1 |
| 10° | 9359.3 | 9324.0 | 9299.6 | 9315.9 | 9182.8 | 9025.3 | 8694.1 | 8457.9 | 8094.0 | 7279.5 | 6234.1 |
| 12.5° | 9891.5 | 9910.5 | 9918.6 | 10005.5 | 9948.5 | 9853.5 | 9511.4 | 9261.6 | 8857.0 | 7961.0 | 6693.0 |
| 15° | 10312.3 | 10306.9 | 10401.9 | 10567.6 | 10659.9 | 10600.1 | 10325.9 | 10116.8 | 9622.7 | 8631.6 | 7187.1 |
| 17.5° | 10410.1 | 10415.5 | 10564.9 | 10855.4 | 11156.8 | 11303.4 | 11148.6 | 10898.8 | 10410.1 | 9294.1 | 7700.3 |
| 20° | 10488.8 | 10499.7 | 10654.5 | 10985.7 | 11425.6 | 11835.6 | 11860.0 | 11680.8 | 11259.9 | 10011.0 | 8221.6 |
| 22.5° | 10985.7 | 11010.1 | 11050.9 | 11259.9 | 11656.4 | 12175.0 | 12460.1 | 12422.1 | 12069.1 | 10763.1 | 8783.7 |
| 25° | 12291.7 | 12218.4 | 12020.2 | 11960.5 | 12112.5 | 12533.4 | 13019.4 | 13092.7 | 12918.9 | 11591.2 | 9389.2 |
| 27.5° | 13904.6 | 13825.8 | 13532.6 | 13223.0 | 12894.5 | 13041.1 | 13559.7 | 13779.7 | 13782.4 | 12503.5 | 9997.4 |
| 30° | 15368.0 | 15305.6 | 15066.7 | 14624.1 | 14056.6 | 13844.8 | 14227.7 | 14523.6 | 14700.1 | 13557.0 | 10689.8 |
| 32.5° | 16619.8 | 16562.7 | 16239.6 | 15878.5 | 15324.6 | 14898.3 | 15036.8 | 15321.9 | 15734.6 | 14920.0 | 11550.5 |
| 35° | 17673.3 | 17616.2 | 17306.7 | 16942.9 | 16429.7 | 16174.5 | 16125.6 | 16321.1 | 16856.0 | 16342.8 | 12538.8 |
| 37.5° | 18528.5 | 18471.5 | 18148.4 | 17806.3 | 17415.3 | 17431.6 | 17504.9 | 17599.9 | 17906.8 | 17866.0 | 13595.0 |
| 40° | 19082.4 | 19022.7 | 18791.9 | 18547.5 | 18300.5 | 18496.0 | 18859.8 | 18745.8 | 18908.7 | 19096.0 | 14567.1 |
| 42.5° | 19329.5 | 19253.5 | 19120.5 | 19066.1 | 18990.1 | 19294.2 | 19994.7 | 19880.7 | 19685.2 | 19916.0 | 15289.3 |
| 45° | 19082.4 | 19017.3 | 19014.6 | 19180.2 | 19356.7 | 19747.7 | 20779.4 | 20687.1 | 20193.0 | 20312.4 | 15721.0 |
| 47.5° | 18324.9 | 18267.9 | 18422.6 | 18857.1 | 19291.5 | 19861.7 | 21129.7 | 21146.0 | 20554.1 | 20478.1 | 16000.7 |
| 50° | 16687.6 | 16649.6 | 17097.6 | 17920.3 | 18669.7 | 19506.0 | 21018.4 | 21205.7 | 20641.0 | 20426.5 | 15965.4 |
| 52.5° | 13358.8 | 13535.3 | 14510.0 | 15883.9 | 17339.3 | 18881.5 | 20605.7 | 20850.0 | 20222.8 | 20087.1 | 15775.3 |
| 55° | 9144.8 | 9226.3 | 10201.0 | 12207.5 | 14515.5 | 17529.3 | 19658.1 | 20035.5 | 19728.7 | 20030.0 | 15973.5 |
| 57.5° | 4735.3 | 4800.5 | 5568.9 | 7350.1 | 9845.3 | 13853.0 | 17027.0 | 18265.2 | 18732.2 | 20317.9 | 16589.9 |
| 60° | 1944.1 | 1998.4 | 2316.1 | 3176.8 | 4966.1 | 8066.9 | 12253.7 | 14089.2 | 15186.1 | 18555.7 | 14732.7 |
| 62.5° | 1411.9 | 1439.1 | 1591.1 | 1895.2 | 2601.2 | 3953.3 | 6934.6 | 7610.7 | 8381.8 | 11629.2 | 9353.9 |
| 65° | 1189.3 | 1219.1 | 1341.3 | 1525.9 | 1897.9 | 2424.7 | 2962.3 | 2978.6 | 3282.7 | 4738.0 | 3467.3 |
| 67.5° | 996.5 | 1023.6 | 1132.2 | 1289.7 | 1534.1 | 1721.4 | 1591.1 | 1593.8 | 1588.4 | 1718.7 | 1661.7 |
| 70° | 776.5 | 798.3 | 906.9 | 1075.2 | 1202.8 | 1105.1 | 1243.6 | 1376.6 | 1319.6 | 1371.2 | 1449.9 |
| 72.5° | 567.5 | 591.9 | 686.9 | 814.6 | 782.0 | 787.4 | 1007.3 | 1143.1 | 1110.5 | 1167.5 | 1240.8 |
| 75° | 410.0 | 426.3 | 475.2 | 407.3 | 429.0 | 518.6 | 708.7 | 782.0 | 814.6 | 863.4 | 928.6 |
| 77.5° | 133.0 | 133.0 | 149.3 | 187.3 | 233.5 | 287.8 | 361.1 | 391.0 | 439.9 | 494.2 | 540.3 |
| 80° | 67.9 | 70.6 | 84.2 | 103.2 | 130.3 | 165.6 | 211.8 | 225.4 | 249.8 | 279.7 | 298.7 |
| 82.5° | 32.6 | 35.3 | 40.7 | 51.6 | 67.9 | 86.9 | 116.8 | 130.3 | 146.6 | 165.6 | 179.2 |
| 85° | 8.1 | 8.1 | 10.9 | 16.3 | 21.7 | 32.6 | 43.4 | 51.6 | 65.2 | 78.7 | 86.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 8.1 | 10.9 | 13.6 | 16.3 | 21.7 |
| 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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CATALOG NUMBER: GWS-SA5E-760-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 | 5050.3 |
| 2.5° | 5145.3 | 4993.3 | 4797.8 | 4632.1 | 4480.1 | 4363.3 | 4262.9 | 4214.0 | 4167.8 | 4135.3 | 4146.1 |
| 5° | 5286.5 | 5025.8 | 4662.0 | 4409.5 | 4254.7 | 4176.0 | 4121.7 | 4094.5 | 4089.1 | 4067.4 | 4059.2 |
| 7.5° | 5492.9 | 5120.9 | 4634.9 | 4379.6 | 4276.4 | 4235.7 | 4205.8 | 4189.6 | 4197.7 | 4176.0 | 4167.8 |
| 10° | 5748.1 | 5278.4 | 4702.7 | 4477.4 | 4387.8 | 4357.9 | 4325.3 | 4303.6 | 4292.7 | 4260.2 | 4254.7 |
| 12.5° | 6065.8 | 5473.8 | 4824.9 | 4602.3 | 4512.7 | 4461.1 | 4417.6 | 4379.6 | 4355.2 | 4314.5 | 4303.6 |
| 15° | 6407.9 | 5691.1 | 4968.8 | 4724.5 | 4618.6 | 4542.5 | 4471.9 | 4414.9 | 4371.5 | 4317.2 | 4309.0 |
| 17.5° | 6779.9 | 5919.1 | 5088.3 | 4808.6 | 4672.9 | 4572.4 | 4469.2 | 4385.1 | 4325.3 | 4254.7 | 4246.6 |
| 20° | 7168.1 | 6149.9 | 5177.9 | 4849.4 | 4675.6 | 4539.8 | 4401.3 | 4290.0 | 4214.0 | 4143.4 | 4138.0 |
| 22.5° | 7570.0 | 6361.7 | 5232.2 | 4838.5 | 4632.1 | 4463.8 | 4298.2 | 4173.3 | 4083.7 | 3999.5 | 3994.1 |
| 25° | 7974.5 | 6565.4 | 5245.8 | 4795.0 | 4545.2 | 4349.8 | 4184.1 | 4037.5 | 3937.0 | 3842.0 | 3831.2 |
| 27.5° | 8384.5 | 6736.4 | 5213.2 | 4708.2 | 4428.5 | 4216.7 | 4051.1 | 3907.2 | 3804.0 | 3709.0 | 3692.7 |
| 30° | 8821.7 | 6883.0 | 5142.6 | 4594.1 | 4292.7 | 4075.5 | 3912.6 | 3804.0 | 3706.3 | 3611.2 | 3594.9 |
| 32.5° | 9288.7 | 7010.7 | 5042.1 | 4455.6 | 4135.3 | 3934.3 | 3814.9 | 3717.1 | 3619.4 | 3535.2 | 3518.9 |
| 35° | 9845.3 | 7094.8 | 4892.8 | 4276.4 | 3988.6 | 3831.2 | 3749.7 | 3635.7 | 3516.2 | 3423.9 | 3415.7 |
| 37.5° | 10420.9 | 7160.0 | 4713.6 | 4105.4 | 3861.0 | 3771.4 | 3703.5 | 3548.8 | 3399.4 | 3288.1 | 3274.5 |
| 40° | 10977.6 | 7214.3 | 4490.9 | 3945.2 | 3744.3 | 3728.0 | 3635.7 | 3442.9 | 3184.9 | 3060.0 | 3049.2 |
| 42.5° | 11496.2 | 7230.6 | 4257.4 | 3774.1 | 3638.4 | 3630.2 | 3527.0 | 3228.4 | 3030.2 | 2951.4 | 2940.6 |
| 45° | 11851.9 | 7217.0 | 4015.8 | 3613.9 | 3532.5 | 3489.0 | 3380.4 | 3073.6 | 2951.4 | 2880.8 | 2867.3 |
| 47.5° | 12115.2 | 7146.4 | 3744.3 | 3445.6 | 3413.0 | 3353.3 | 3119.8 | 2975.9 | 2861.8 | 2791.2 | 2777.7 |
| 50° | 12069.1 | 6853.2 | 3470.0 | 3282.7 | 3269.1 | 3217.5 | 2929.7 | 2853.7 | 2753.2 | 2677.2 | 2666.3 |
| 52.5° | 11830.1 | 6296.6 | 3190.4 | 3103.5 | 3130.6 | 3030.2 | 2793.9 | 2707.1 | 2620.2 | 2533.3 | 2514.3 |
| 55° | 11889.9 | 5894.7 | 2978.6 | 2929.7 | 2978.6 | 2750.5 | 2641.9 | 2549.6 | 2468.1 | 2383.9 | 2367.7 |
| 57.5° | 12150.5 | 5498.3 | 2753.2 | 2742.4 | 2793.9 | 2536.0 | 2446.4 | 2329.6 | 2212.9 | 2145.0 | 2145.0 |
| 60° | 10203.7 | 4007.6 | 2356.8 | 2383.9 | 2500.7 | 2362.2 | 2283.5 | 2164.0 | 2036.4 | 1976.7 | 1976.7 |
| 62.5° | 6033.2 | 2514.3 | 1954.9 | 1925.1 | 1998.4 | 2085.3 | 2128.7 | 2031.0 | 1878.9 | 1800.2 | 1802.9 |
| 65° | 2658.2 | 1830.0 | 1724.2 | 1699.7 | 1678.0 | 1737.7 | 1857.2 | 1865.3 | 1705.1 | 1612.8 | 1615.5 |
| 67.5° | 1637.3 | 1656.3 | 1612.8 | 1593.8 | 1574.8 | 1564.0 | 1553.1 | 1558.5 | 1515.1 | 1430.9 | 1428.2 |
| 70° | 1477.1 | 1528.7 | 1498.8 | 1482.5 | 1458.1 | 1439.1 | 1373.9 | 1268.0 | 1194.7 | 1173.0 | 1197.4 |
| 72.5° | 1270.7 | 1341.3 | 1325.0 | 1316.9 | 1287.0 | 1240.8 | 1154.0 | 1050.8 | 963.9 | 909.6 | 920.5 |
| 75° | 958.5 | 1015.5 | 1023.6 | 1026.3 | 993.8 | 950.3 | 860.7 | 773.8 | 697.8 | 640.8 | 654.4 |
| 77.5° | 551.2 | 583.8 | 591.9 | 600.1 | 575.6 | 559.3 | 499.6 | 437.1 | 396.4 | 336.7 | 353.0 |
| 80° | 306.8 | 320.4 | 320.4 | 323.1 | 309.5 | 290.5 | 249.8 | 214.5 | 195.5 | 168.3 | 171.1 |
| 82.5° | 184.6 | 190.1 | 192.8 | 195.5 | 187.3 | 168.3 | 138.5 | 114.0 | 103.2 | 89.6 | 86.9 |
| 85° | 89.6 | 95.0 | 95.0 | 97.7 | 84.2 | 73.3 | 57.0 | 43.4 | 38.0 | 27.2 | 29.9 |
| 87.5° | 21.7 | 24.4 | 24.4 | 21.7 | 19.0 | 13.6 | 8.1 | 2.7 | 0.0 | 0.0 | 0.0 |
| 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)