

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: P640775

Luminaire Tested: GWS-SA5E-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39104.2 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

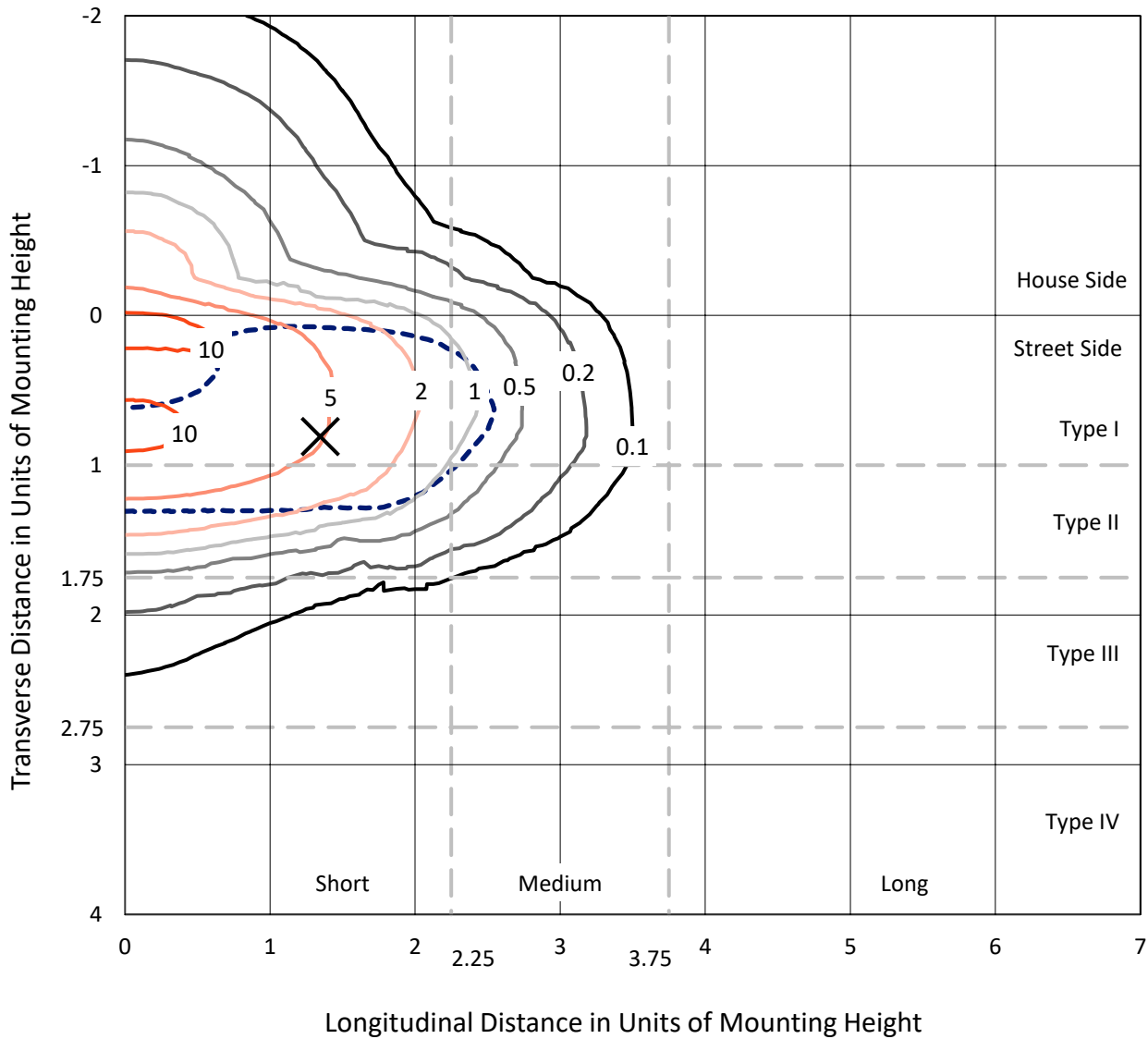
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

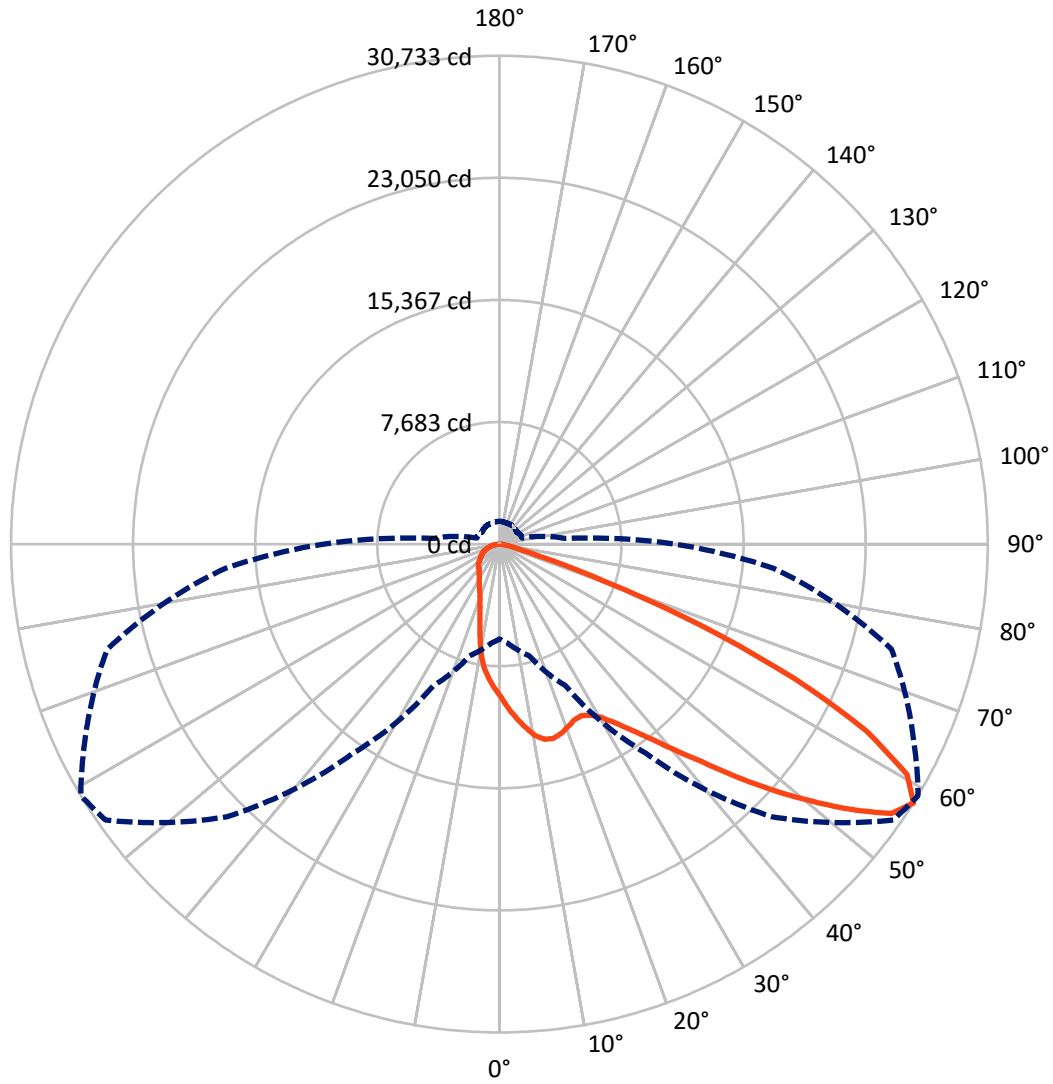
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6068.8 | 0.0 | 6068.8 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 33035.4 | 0.0 | 33035.4 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 39104.2 | 0.0 | 39104.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 891.3 | 2.3 |
| 10°-20° | 2258.6 | 5.8 |
| 20°-30° | 3661.2 | 9.4 |
| 30°-40° | 5889.5 | 15.1 |
| 40°-50° | 9145.8 | 23.4 |
| 50°-60° | 9851.3 | 25.2 |
| 60°-70° | 5717.3 | 14.6 |
| 70°-80° | 1492.5 | 3.8 |
| 80°-90° | 196.6 | 0.5 |
| 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° | 39104.2 | 100.0 |
| 0°-180° | 39104.2 | 100.0 |

Coefficient of Utilization



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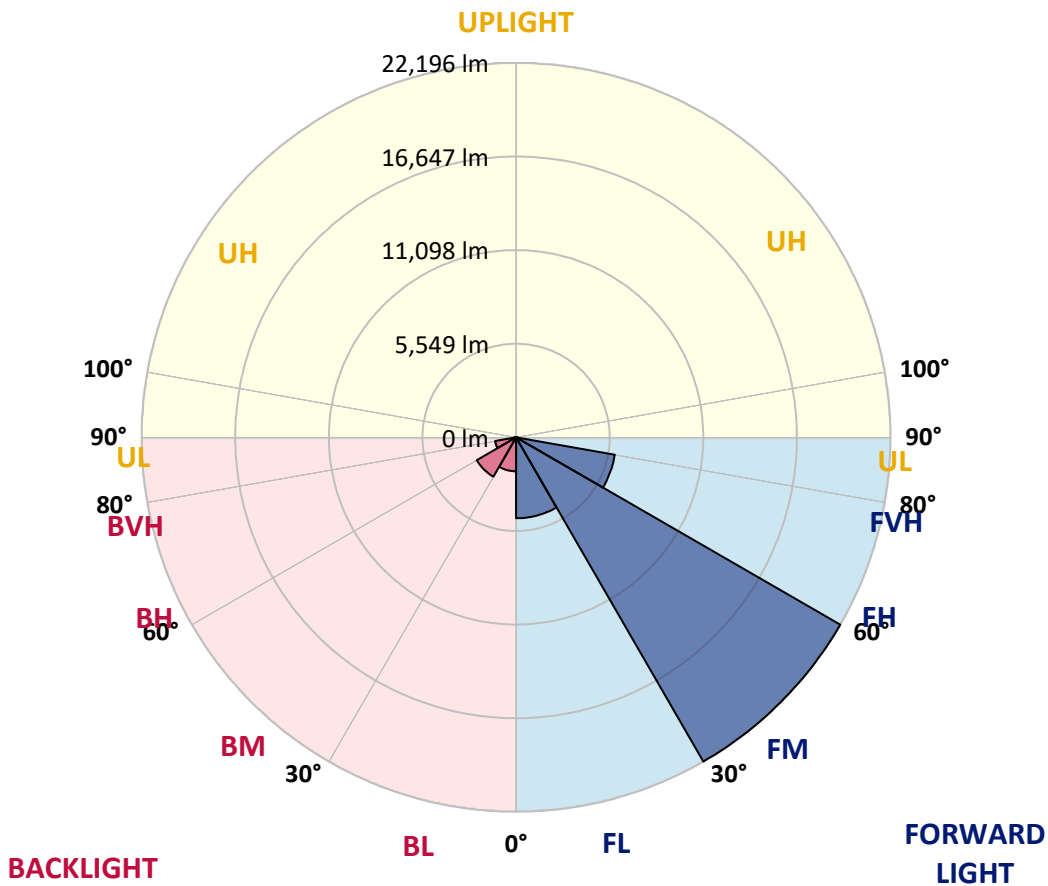
CATALOG NUMBER: GWS-SA5E-750-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4797.7 | 12.3 | | | |
| FM (30°-60°) | 22196.0 | 56.8 | | | |
| FH (60°-80°) | 5947.6 | 15.2 | | | G3/7500 |
| FVH (80°-90°) | 94.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2013.4 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2690.7 | 6.9 | B3/5000 | | |
| BH (60°-80°) | 1262.3 | 3.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 102.5 | 0.3 | | | G2/225 |
| 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° | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 |
| 2.5° | 10887.6 | 10796.8 | 10860.1 | 10747.3 | 10700.5 | 10576.6 | 10416.9 | 10309.5 | 10144.4 | 9929.6 | 9742.4 |
| 5° | 11969.5 | 11906.2 | 11920.0 | 11798.9 | 11691.5 | 11485.0 | 11157.4 | 10975.7 | 10694.9 | 10262.7 | 9860.8 |
| 7.5° | 11936.5 | 12010.8 | 12052.1 | 12156.7 | 12187.0 | 12167.7 | 11873.2 | 11619.9 | 11311.6 | 10661.9 | 10056.3 |
| 10° | 10700.5 | 10840.8 | 10967.5 | 11325.4 | 11760.3 | 12310.9 | 12379.7 | 12228.3 | 11917.2 | 11171.2 | 10290.3 |
| 12.5° | 9354.3 | 9461.7 | 9574.5 | 10004.0 | 10670.2 | 11771.3 | 12517.4 | 12611.0 | 12487.1 | 11675.0 | 10554.5 |
| 15° | 8693.6 | 8743.2 | 8850.5 | 9134.1 | 9665.4 | 10887.6 | 12277.9 | 12688.0 | 12911.0 | 12209.0 | 10851.9 |
| 17.5° | 8666.1 | 8688.1 | 8740.4 | 8891.8 | 9260.7 | 10204.9 | 11845.7 | 12533.9 | 13244.1 | 12773.4 | 11198.7 |
| 20° | 9235.9 | 9178.1 | 9145.1 | 9142.3 | 9324.0 | 9976.4 | 11427.2 | 12286.1 | 13401.0 | 13351.5 | 11570.4 |
| 22.5° | 10026.0 | 10045.3 | 9973.7 | 9797.5 | 9775.5 | 10138.9 | 11218.0 | 12035.6 | 13447.8 | 13863.5 | 11914.5 |
| 25° | 11146.4 | 11242.8 | 11030.8 | 10694.9 | 10529.8 | 10609.6 | 11347.4 | 11958.5 | 13442.3 | 14290.2 | 12129.2 |
| 27.5° | 12454.0 | 12528.4 | 12313.6 | 11873.2 | 11531.8 | 11339.1 | 11732.8 | 12187.0 | 13489.1 | 14659.1 | 12258.6 |
| 30° | 13943.3 | 13968.1 | 13673.6 | 13211.1 | 12712.8 | 12299.9 | 12374.2 | 12657.8 | 13728.6 | 15143.6 | 12410.0 |
| 32.5° | 15763.0 | 15867.6 | 15421.6 | 14689.4 | 13992.9 | 13464.3 | 13235.9 | 13417.5 | 14246.2 | 15716.2 | 12644.0 |
| 35° | 18072.7 | 18108.5 | 17541.4 | 16492.5 | 15507.0 | 14774.7 | 14295.7 | 14392.1 | 15033.5 | 16517.3 | 12996.4 |
| 37.5° | 20250.2 | 20286.0 | 19683.1 | 18708.6 | 17299.1 | 16297.1 | 15603.3 | 15559.3 | 16041.0 | 17648.7 | 13571.7 |
| 40° | 21632.1 | 21734.0 | 21464.2 | 20853.1 | 19506.9 | 18155.3 | 17213.8 | 17062.4 | 17362.4 | 19033.4 | 14372.8 |
| 42.5° | 22375.4 | 22419.5 | 22414.0 | 22493.8 | 21692.7 | 20349.3 | 19030.7 | 18727.9 | 18928.8 | 20528.2 | 15182.1 |
| 45° | 22380.9 | 22491.0 | 22785.6 | 23553.7 | 23589.4 | 22752.6 | 21326.6 | 20853.1 | 20668.6 | 22034.1 | 16027.3 |
| 47.5° | 21378.9 | 21497.3 | 22306.6 | 23817.9 | 24932.9 | 25122.8 | 24076.7 | 23127.0 | 22350.6 | 23330.7 | 16721.0 |
| 50° | 18345.2 | 18642.5 | 20184.1 | 22857.2 | 25197.1 | 27022.3 | 26700.2 | 25411.9 | 23845.5 | 24332.7 | 17156.0 |
| 52.5° | 15710.7 | 15699.7 | 16649.4 | 20142.8 | 24093.2 | 27859.2 | 29238.4 | 27762.8 | 25323.8 | 24968.6 | 17266.1 |
| 55° | 11504.3 | 11567.6 | 12539.4 | 15405.1 | 21147.6 | 27049.8 | 30634.1 | 29926.6 | 27019.5 | 25307.2 | 17222.0 |
| 57.5° | 5965.5 | 6279.3 | 7275.9 | 9830.5 | 16068.6 | 24263.9 | 30262.4 | 30733.2 | 28742.8 | 25546.7 | 17279.8 |
| 60° | 3014.4 | 2953.8 | 3311.7 | 4693.7 | 9310.2 | 18950.8 | 27972.0 | 29472.4 | 29053.9 | 25733.9 | 17315.6 |
| 62.5° | 2012.4 | 1995.8 | 1896.7 | 2174.8 | 3804.5 | 11223.5 | 23845.5 | 25948.7 | 26892.9 | 25293.5 | 16858.6 |
| 65° | 1742.6 | 1709.5 | 1527.8 | 1516.8 | 1847.2 | 4655.1 | 17478.0 | 20398.9 | 22226.8 | 23336.2 | 15765.8 |
| 67.5° | 1569.1 | 1519.6 | 1335.1 | 1244.3 | 1326.9 | 2045.4 | 9849.8 | 13681.8 | 16412.7 | 19735.4 | 13370.7 |
| 70° | 1401.2 | 1376.4 | 1192.0 | 1059.9 | 1051.6 | 1247.1 | 3628.3 | 7061.1 | 10042.5 | 13464.3 | 9775.5 |
| 72.5° | 1255.3 | 1211.3 | 1054.4 | 927.7 | 864.4 | 883.7 | 1574.6 | 2719.8 | 5197.4 | 8399.0 | 5847.1 |
| 75° | 1087.4 | 1054.4 | 916.7 | 790.1 | 713.0 | 646.9 | 960.8 | 1258.1 | 2370.2 | 3991.7 | 2761.1 |
| 77.5° | 839.6 | 817.6 | 724.0 | 627.7 | 583.6 | 481.8 | 583.6 | 792.8 | 1095.6 | 1682.0 | 1437.0 |
| 80° | 487.3 | 501.0 | 539.6 | 490.0 | 429.4 | 344.1 | 379.9 | 457.0 | 657.9 | 911.2 | 814.9 |
| 82.5° | 245.0 | 261.5 | 349.6 | 283.5 | 256.0 | 201.0 | 225.7 | 269.8 | 344.1 | 503.8 | 319.3 |
| 85° | 19.3 | 19.3 | 63.3 | 71.6 | 88.1 | 71.6 | 90.8 | 110.1 | 156.9 | 201.0 | 107.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | 13.8 | 24.8 | 46.8 | 30.3 |
| 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° | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 | 9599.3 |
| 2.5° | 9615.8 | 9475.4 | 9307.5 | 9169.8 | 8957.9 | 8845.0 | 8701.9 | 8525.7 | 8454.1 | 8421.1 | 8401.8 |
| 5° | 9635.1 | 9387.3 | 9029.5 | 8699.1 | 8333.0 | 8043.9 | 7721.8 | 7386.0 | 7193.3 | 7146.5 | 7113.4 |
| 7.5° | 9706.7 | 9359.8 | 8790.0 | 8244.9 | 7564.9 | 6934.5 | 6320.6 | 5712.2 | 5401.2 | 5282.8 | 5271.8 |
| 10° | 9805.8 | 9348.8 | 8547.7 | 7642.0 | 6494.0 | 5497.5 | 4779.0 | 4302.8 | 4101.8 | 4035.7 | 4013.7 |
| 12.5° | 9929.6 | 9340.5 | 8228.4 | 6805.1 | 5258.0 | 4316.5 | 3906.3 | 3829.3 | 3856.8 | 3851.3 | 3851.3 |
| 15° | 10086.6 | 9351.5 | 7843.0 | 5858.1 | 4253.2 | 3746.7 | 3754.9 | 3845.8 | 3931.1 | 3944.9 | 3944.9 |
| 17.5° | 10257.2 | 9340.5 | 7284.1 | 4908.4 | 3650.3 | 3611.8 | 3738.4 | 3865.0 | 3942.1 | 3953.1 | 3953.1 |
| 20° | 10441.7 | 9288.2 | 6579.4 | 4013.7 | 3386.0 | 3526.4 | 3664.1 | 3763.2 | 3810.0 | 3821.0 | 3821.0 |
| 22.5° | 10551.8 | 9139.6 | 5814.1 | 3397.1 | 3218.1 | 3391.6 | 3482.4 | 3584.3 | 3589.8 | 3501.7 | 3498.9 |
| 25° | 10535.3 | 8861.5 | 4941.4 | 3000.6 | 3039.2 | 3190.6 | 3306.2 | 3234.6 | 3146.5 | 3097.0 | 3088.7 |
| 27.5° | 10430.7 | 8443.1 | 4052.2 | 2700.6 | 2827.2 | 2997.9 | 2962.1 | 2901.5 | 2879.5 | 2824.5 | 2819.0 |
| 30° | 10298.5 | 7928.3 | 3253.9 | 2466.6 | 2607.0 | 2763.9 | 2708.8 | 2703.3 | 2681.3 | 2620.7 | 2620.7 |
| 32.5° | 10171.9 | 7397.0 | 2651.0 | 2293.2 | 2466.6 | 2477.6 | 2554.7 | 2560.2 | 2549.2 | 2444.6 | 2433.5 |
| 35° | 10136.1 | 6865.7 | 2243.6 | 2155.5 | 2328.9 | 2323.4 | 2433.5 | 2430.8 | 2240.8 | 2094.9 | 2092.2 |
| 37.5° | 10243.5 | 6326.1 | 2001.3 | 2042.6 | 2139.0 | 2210.6 | 2298.7 | 2139.0 | 2075.7 | 1987.6 | 1982.1 |
| 40° | 10472.0 | 5827.9 | 1877.5 | 1976.6 | 2017.9 | 2122.5 | 1984.8 | 1995.8 | 1979.3 | 1913.3 | 1905.0 |
| 42.5° | 10774.8 | 5403.9 | 1808.6 | 1954.5 | 1949.0 | 1976.6 | 1825.2 | 1869.2 | 1894.0 | 1844.4 | 1836.2 |
| 45° | 11066.6 | 5035.0 | 1772.9 | 1872.0 | 1899.5 | 1739.8 | 1709.5 | 1750.8 | 1789.4 | 1770.1 | 1761.8 |
| 47.5° | 11281.3 | 4715.7 | 1753.6 | 1759.1 | 1836.2 | 1660.0 | 1610.4 | 1629.7 | 1676.5 | 1684.8 | 1682.0 |
| 50° | 11347.4 | 4443.2 | 1731.6 | 1665.5 | 1649.0 | 1580.2 | 1541.6 | 1536.1 | 1591.2 | 1629.7 | 1635.2 |
| 52.5° | 11220.7 | 4200.9 | 1673.8 | 1582.9 | 1503.1 | 1514.1 | 1500.3 | 1472.8 | 1527.8 | 1580.2 | 1585.7 |
| 55° | 11033.6 | 4063.3 | 1582.9 | 1503.1 | 1409.5 | 1453.5 | 1459.0 | 1434.3 | 1470.0 | 1505.8 | 1505.8 |
| 57.5° | 11047.3 | 4143.1 | 1494.8 | 1428.7 | 1326.9 | 1384.7 | 1415.0 | 1404.0 | 1404.0 | 1431.5 | 1434.3 |
| 60° | 11138.2 | 4258.7 | 1437.0 | 1335.1 | 1244.3 | 1304.9 | 1373.7 | 1362.7 | 1337.9 | 1373.7 | 1373.7 |
| 62.5° | 10876.6 | 4104.5 | 1398.5 | 1244.3 | 1156.2 | 1227.8 | 1310.4 | 1304.9 | 1277.3 | 1335.1 | 1340.7 |
| 65° | 10105.8 | 3691.6 | 1354.4 | 1131.4 | 1068.1 | 1150.7 | 1222.3 | 1241.5 | 1216.8 | 1293.9 | 1307.6 |
| 67.5° | 8470.6 | 3105.3 | 1269.1 | 1024.1 | 980.0 | 1057.1 | 1125.9 | 1153.5 | 1134.2 | 1225.0 | 1236.0 |
| 70° | 6315.1 | 2513.4 | 1134.2 | 905.7 | 872.7 | 941.5 | 1004.8 | 1015.8 | 1018.6 | 1125.9 | 1136.9 |
| 72.5° | 4027.5 | 1954.5 | 955.3 | 773.6 | 748.8 | 801.1 | 847.9 | 891.9 | 911.2 | 1013.1 | 1010.3 |
| 75° | 2246.4 | 1453.5 | 768.1 | 655.2 | 611.1 | 652.4 | 707.5 | 759.8 | 814.9 | 963.5 | 980.0 |
| 77.5° | 1293.9 | 1021.3 | 608.4 | 525.8 | 473.5 | 517.5 | 564.3 | 638.7 | 803.8 | 933.2 | 916.7 |
| 80° | 729.5 | 663.4 | 459.7 | 385.4 | 352.4 | 385.4 | 421.2 | 561.6 | 633.2 | 688.2 | 696.5 |
| 82.5° | 341.4 | 371.6 | 313.8 | 236.7 | 236.7 | 258.8 | 291.8 | 435.0 | 479.0 | 390.9 | 341.4 |
| 85° | 123.9 | 167.9 | 154.2 | 121.1 | 107.4 | 104.6 | 181.7 | 247.8 | 154.2 | 137.6 | 118.4 |
| 87.5° | 33.0 | 46.8 | 44.0 | 30.3 | 16.5 | 13.8 | 0.0 | 0.0 | 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)