

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: P642667

Luminaire Tested: GWS-SA6D-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35266.1 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

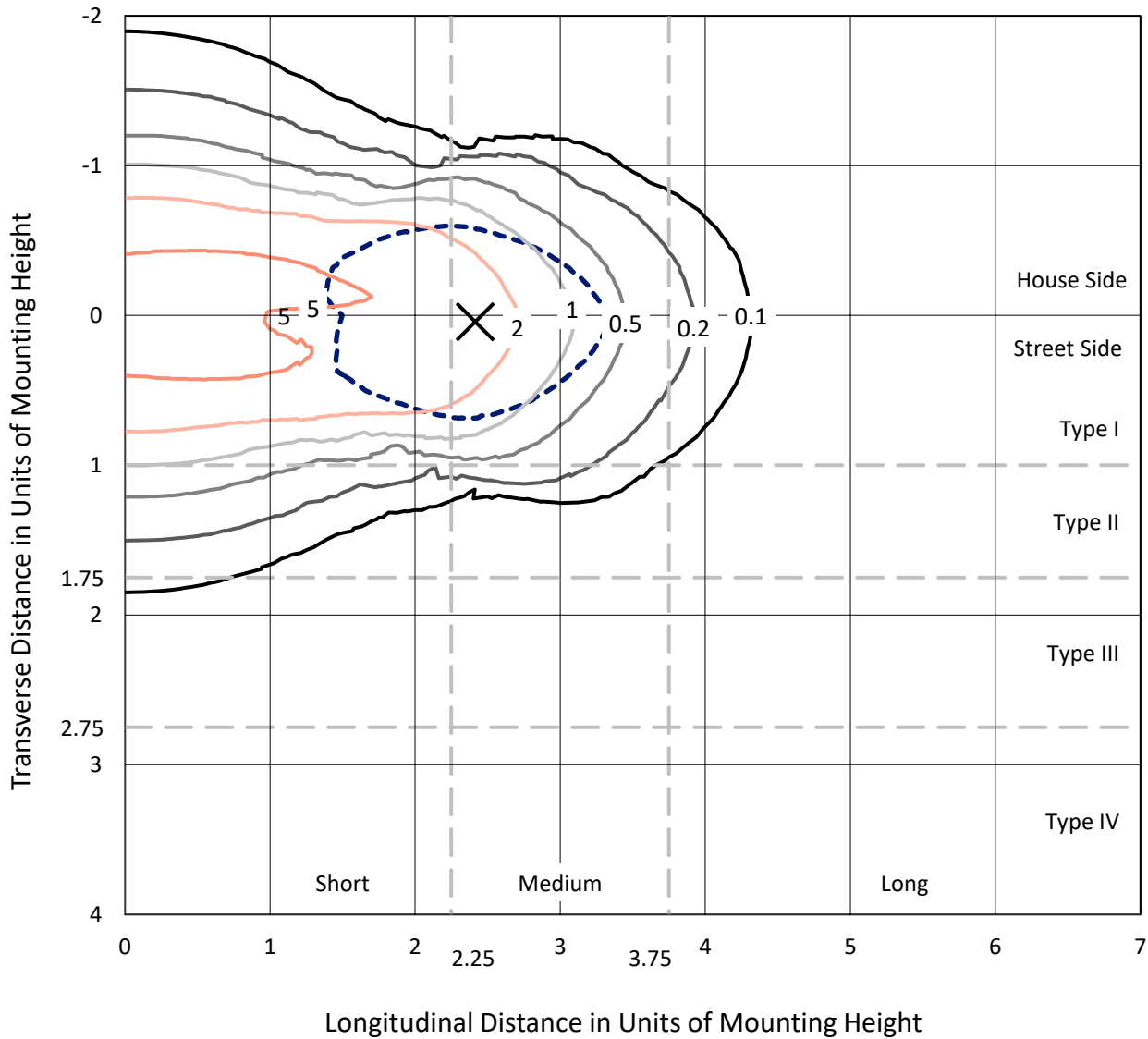
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

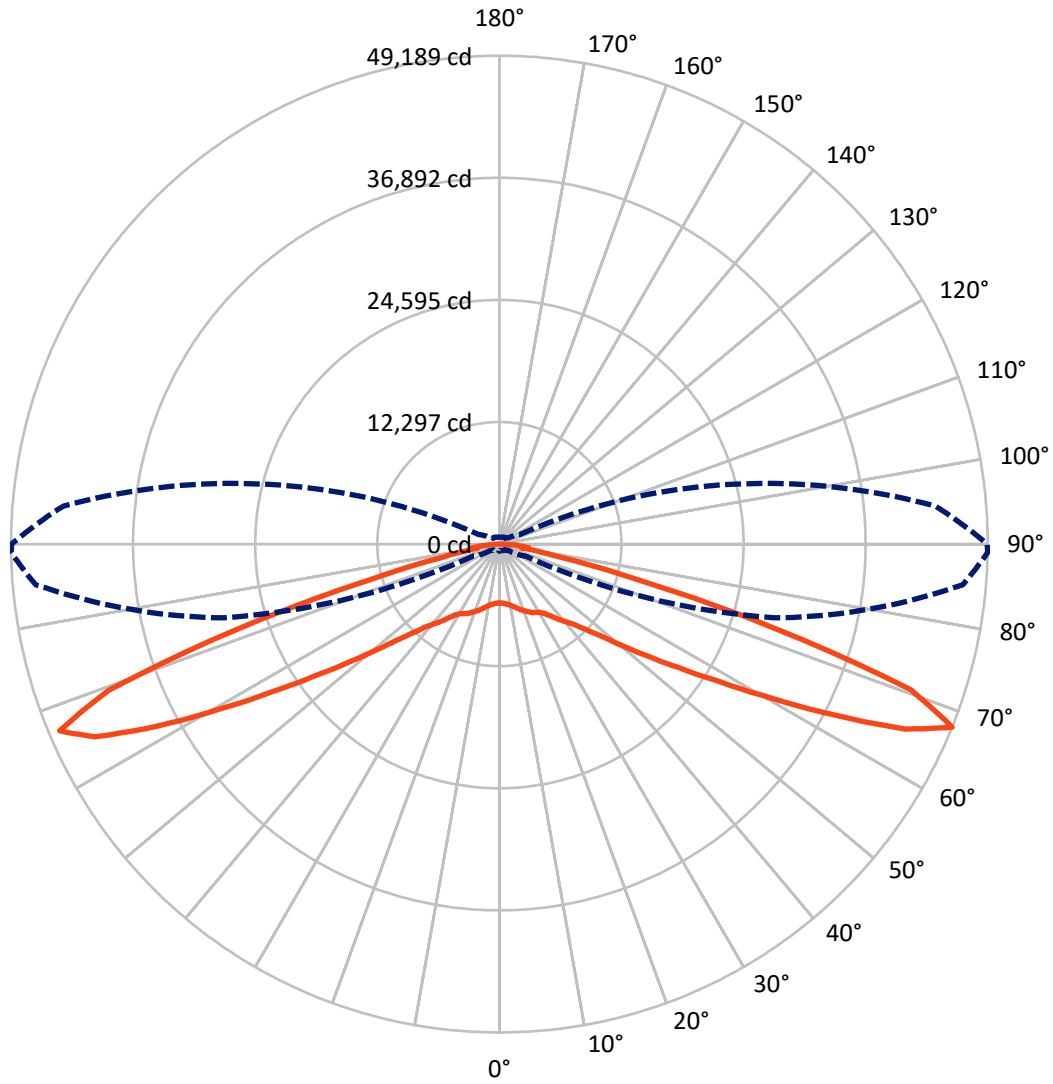
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17478.5 | 0.0 | 17478.5 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 17787.6 | 0.0 | 17787.6 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 35266.1 | 0.0 | 35266.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 593.7 | 1.7 |
| 10°-20° | 1933.3 | 5.5 |
| 20°-30° | 3268.1 | 9.3 |
| 30°-40° | 4485.1 | 12.7 |
| 40°-50° | 5719.5 | 16.2 |
| 50°-60° | 7176.0 | 20.3 |
| 60°-70° | 8654.8 | 24.5 |
| 70°-80° | 3131.1 | 8.9 |
| 80°-90° | 304.5 | 0.9 |
| 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° | 35266.1 | 100.0 |
| 0°-180° | 35266.1 | 100.0 |

Coefficient of Utilization



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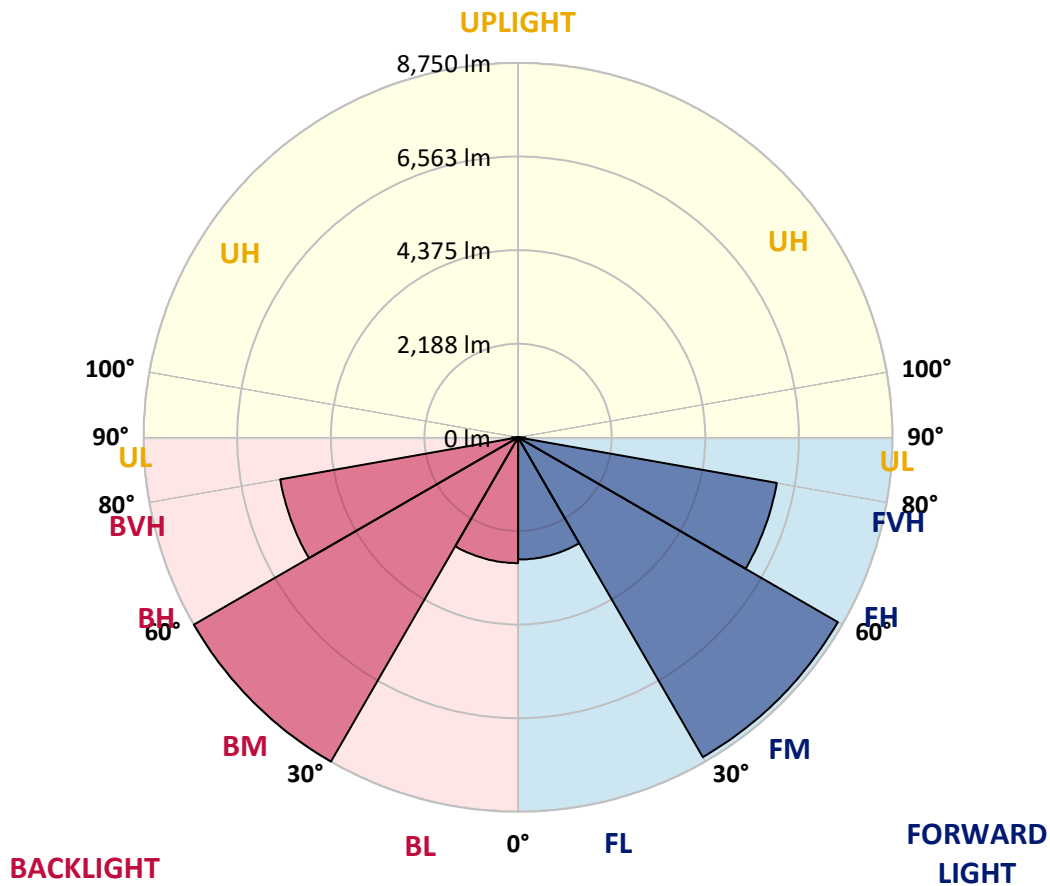
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2856.3 | 8.1 | | | |
| FM (30°-60°) | 8630.3 | 24.5 | | | |
| FH (60°-80°) | 6140.3 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 160.7 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2938.9 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 8750.3 | 24.8 | B5 | | |
| BH (60°-80°) | 5645.5 | 16.0 | B5 | | G5 |
| BVH (80°-90°) | 143.8 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 89° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 |
| 2.5° | 5936.9 | 5931.8 | 5919.1 | 5957.1 | 5949.5 | 5952.1 | 5967.3 | 5957.1 | 5939.4 | 5909.0 | 5952.1 |
| 5° | 6104.0 | 6101.5 | 6073.6 | 6096.4 | 6071.1 | 6053.4 | 6050.8 | 6025.5 | 6005.2 | 5972.3 | 6017.9 |
| 7.5° | 6266.1 | 6263.6 | 6240.8 | 6281.3 | 6261.1 | 6240.8 | 6218.0 | 6167.3 | 6119.2 | 6071.1 | 6121.8 |
| 10° | 6390.2 | 6387.7 | 6382.6 | 6440.9 | 6446.0 | 6453.5 | 6443.4 | 6357.3 | 6273.7 | 6215.5 | 6266.1 |
| 12.5° | 6461.1 | 6468.7 | 6481.4 | 6587.8 | 6641.0 | 6691.6 | 6704.3 | 6633.4 | 6494.1 | 6410.5 | 6471.3 |
| 15° | 6413.0 | 6428.2 | 6491.5 | 6684.0 | 6830.9 | 6944.9 | 6993.0 | 6934.8 | 6755.0 | 6615.6 | 6684.0 |
| 17.5° | 6182.5 | 6195.2 | 6319.3 | 6613.1 | 6937.3 | 7200.7 | 7279.2 | 7243.8 | 7043.7 | 6874.0 | 6939.8 |
| 20° | 5863.4 | 5891.3 | 6025.5 | 6435.8 | 6919.6 | 7378.0 | 7588.2 | 7575.6 | 7357.8 | 7096.9 | 7175.4 |
| 22.5° | 5574.7 | 5607.6 | 5749.4 | 6202.8 | 6800.5 | 7423.6 | 7899.8 | 7932.7 | 7644.0 | 7319.8 | 7383.1 |
| 25° | 5250.5 | 5280.9 | 5463.2 | 5926.7 | 6595.4 | 7388.1 | 8165.7 | 8315.2 | 7968.2 | 7575.6 | 7633.8 |
| 27.5° | 4918.7 | 4941.5 | 5121.3 | 5615.2 | 6326.9 | 7322.3 | 8375.9 | 8735.6 | 8287.3 | 7752.9 | 7793.4 |
| 30° | 4627.4 | 4657.8 | 4822.4 | 5303.7 | 6033.1 | 7190.6 | 8548.2 | 9183.9 | 8654.5 | 7953.0 | 7985.9 |
| 32.5° | 4346.3 | 4371.6 | 4551.4 | 4997.2 | 5721.6 | 6988.0 | 8702.7 | 9710.7 | 9199.1 | 8325.3 | 8325.3 |
| 35° | 3991.7 | 4037.3 | 4239.9 | 4703.4 | 5427.8 | 6719.5 | 8814.1 | 10323.7 | 9943.7 | 8874.9 | 8877.4 |
| 37.5° | 3664.9 | 3690.3 | 3903.0 | 4371.6 | 5118.8 | 6415.6 | 8824.2 | 10959.4 | 10885.9 | 9573.9 | 9579.0 |
| 40° | 3292.6 | 3325.6 | 3553.5 | 4017.0 | 4764.2 | 6096.4 | 8728.0 | 11552.1 | 11873.7 | 10293.3 | 10265.4 |
| 42.5° | 2915.2 | 2963.4 | 3181.2 | 3634.6 | 4381.7 | 5706.4 | 8472.2 | 12116.9 | 13127.5 | 11126.5 | 11058.2 |
| 45° | 2550.5 | 2580.9 | 2798.7 | 3226.8 | 3943.6 | 5240.3 | 8061.9 | 12658.9 | 14616.7 | 12392.9 | 12294.2 |
| 47.5° | 2140.2 | 2152.9 | 2378.3 | 2788.6 | 3490.2 | 4721.1 | 7474.3 | 13142.6 | 16252.9 | 14069.6 | 13900.0 |
| 50° | 1775.5 | 1793.2 | 1970.5 | 2322.6 | 2935.5 | 4105.7 | 6742.3 | 13426.3 | 18337.4 | 16356.8 | 16063.0 |
| 52.5° | 1436.1 | 1453.8 | 1595.7 | 1876.8 | 2426.4 | 3404.1 | 5835.5 | 13360.5 | 20452.3 | 19196.0 | 18768.0 |
| 55° | 1160.0 | 1172.7 | 1268.9 | 1489.3 | 1909.7 | 2707.6 | 4764.2 | 12770.3 | 22800.2 | 22904.0 | 21982.1 |
| 57.5° | 980.2 | 985.3 | 1051.1 | 1185.3 | 1491.8 | 2087.0 | 3677.6 | 11377.3 | 25262.0 | 27635.3 | 26120.7 |
| 60° | 876.3 | 878.9 | 909.3 | 992.9 | 1177.7 | 1593.1 | 2694.9 | 9158.6 | 27812.6 | 33554.4 | 31477.5 |
| 62.5° | 810.5 | 810.5 | 835.8 | 883.9 | 977.7 | 1225.9 | 1980.6 | 6577.7 | 29643.8 | 39995.3 | 37931.1 |
| 65° | 747.2 | 747.2 | 764.9 | 805.4 | 856.1 | 1000.5 | 1486.7 | 4242.4 | 30542.9 | 45380.0 | 44921.6 |
| 67.5° | 666.1 | 668.7 | 681.3 | 724.4 | 770.0 | 835.8 | 1127.1 | 2869.7 | 28676.3 | 46869.3 | 49189.3 |
| 70° | 590.1 | 592.7 | 610.4 | 638.3 | 676.3 | 721.8 | 881.4 | 1978.1 | 20872.7 | 39035.4 | 43981.9 |
| 72.5° | 506.6 | 516.7 | 529.4 | 559.7 | 582.5 | 615.5 | 719.3 | 1281.6 | 12144.7 | 25110.1 | 29073.9 |
| 75° | 415.4 | 428.0 | 443.2 | 473.6 | 488.8 | 501.5 | 592.7 | 914.3 | 5843.1 | 12724.7 | 14490.1 |
| 77.5° | 321.7 | 334.3 | 352.1 | 379.9 | 390.0 | 405.2 | 453.4 | 661.1 | 2798.7 | 5640.5 | 6081.2 |
| 80° | 215.3 | 220.4 | 235.5 | 268.5 | 286.2 | 296.3 | 334.3 | 450.8 | 1215.7 | 2264.3 | 2244.1 |
| 82.5° | 131.7 | 134.2 | 139.3 | 159.6 | 167.2 | 177.3 | 217.8 | 276.1 | 580.0 | 2573.3 | 2950.7 |
| 85° | 48.1 | 45.6 | 43.1 | 55.7 | 65.9 | 76.0 | 101.3 | 139.3 | 253.3 | 1767.9 | 1978.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.5 | 5.1 | 5.1 | 10.1 | 20.3 | 60.8 | 661.1 | 453.4 |
| 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° | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 | 5919.1 |
| 2.5° | 5939.4 | 5911.5 | 5947.0 | 5972.3 | 6028.0 | 6048.3 | 6053.4 | 6035.6 | 6035.6 | 6005.2 | 6010.3 |
| 5° | 6007.8 | 5990.0 | 6048.3 | 6091.4 | 6172.4 | 6202.8 | 6223.1 | 6210.4 | 6218.0 | 6197.7 | 6202.8 |
| 7.5° | 6111.6 | 6096.4 | 6197.7 | 6281.3 | 6364.9 | 6400.4 | 6418.1 | 6408.0 | 6410.5 | 6385.2 | 6392.8 |
| 10° | 6256.0 | 6261.1 | 6382.6 | 6491.5 | 6603.0 | 6638.4 | 6646.0 | 6615.6 | 6590.3 | 6544.7 | 6547.3 |
| 12.5° | 6453.5 | 6478.9 | 6651.1 | 6772.7 | 6886.7 | 6937.3 | 6881.6 | 6770.1 | 6666.3 | 6587.8 | 6577.7 |
| 15° | 6668.8 | 6714.4 | 6962.6 | 7117.1 | 7241.2 | 7215.9 | 7051.3 | 6800.5 | 6595.4 | 6478.9 | 6456.1 |
| 17.5° | 6927.2 | 6995.6 | 7307.1 | 7492.0 | 7598.4 | 7436.3 | 7091.8 | 6717.0 | 6430.8 | 6273.7 | 6243.3 |
| 20° | 7170.3 | 7279.2 | 7671.8 | 7912.4 | 7925.1 | 7560.4 | 7074.1 | 6547.3 | 6187.6 | 5995.1 | 5954.6 |
| 22.5° | 7393.2 | 7532.5 | 8054.3 | 8360.7 | 8196.1 | 7616.1 | 6965.2 | 6306.6 | 5893.8 | 5668.4 | 5632.9 |
| 25° | 7636.4 | 7833.9 | 8500.0 | 8786.2 | 8467.1 | 7593.3 | 6737.2 | 6007.8 | 5539.2 | 5308.7 | 5283.4 |
| 27.5° | 7803.5 | 8051.7 | 8948.3 | 9221.9 | 8690.0 | 7464.1 | 6443.4 | 5681.0 | 5215.0 | 4997.2 | 4961.7 |
| 30° | 7996.0 | 8312.6 | 9442.2 | 9695.5 | 8826.8 | 7274.2 | 6129.4 | 5377.1 | 4913.6 | 4678.1 | 4652.7 |
| 32.5° | 8345.5 | 8743.2 | 10055.2 | 10197.0 | 8869.8 | 7038.6 | 5828.0 | 5083.3 | 4599.5 | 4364.0 | 4328.5 |
| 35° | 8907.8 | 9373.9 | 10916.3 | 10756.8 | 8836.9 | 6780.3 | 5541.7 | 4738.9 | 4277.9 | 4057.5 | 4022.1 |
| 37.5° | 9617.0 | 10197.0 | 11876.3 | 11260.8 | 8745.7 | 6496.6 | 5202.4 | 4450.1 | 3989.1 | 3766.3 | 3746.0 |
| 40° | 10278.1 | 10992.3 | 12952.7 | 11696.4 | 8560.8 | 6147.1 | 4875.6 | 4148.7 | 3677.6 | 3442.1 | 3396.5 |
| 42.5° | 11106.3 | 12056.1 | 14198.8 | 12073.8 | 8256.9 | 5729.2 | 4508.4 | 3776.4 | 3287.6 | 3074.8 | 3019.1 |
| 45° | 12365.1 | 13545.4 | 15647.6 | 12436.0 | 7803.5 | 5215.0 | 4047.4 | 3323.0 | 2859.5 | 2641.7 | 2598.6 |
| 47.5° | 13935.4 | 15407.0 | 17217.9 | 12651.3 | 7114.6 | 4673.0 | 3525.6 | 2844.3 | 2380.8 | 2135.1 | 2114.9 |
| 50° | 16141.5 | 18114.5 | 18902.2 | 12613.3 | 6344.6 | 4029.7 | 2938.0 | 2274.4 | 1886.9 | 1709.6 | 1681.8 |
| 52.5° | 18828.8 | 21513.5 | 20723.3 | 12157.4 | 5526.5 | 3297.7 | 2289.6 | 1785.6 | 1496.9 | 1370.2 | 1347.4 |
| 55° | 22199.9 | 25583.7 | 22640.6 | 11179.7 | 4493.2 | 2525.2 | 1798.3 | 1408.2 | 1210.7 | 1134.7 | 1124.6 |
| 57.5° | 26373.9 | 30854.5 | 24487.0 | 9533.4 | 3378.7 | 1927.5 | 1385.4 | 1162.6 | 1068.8 | 1023.2 | 1020.7 |
| 60° | 31882.8 | 36449.4 | 26090.3 | 7408.4 | 2418.8 | 1474.1 | 1144.8 | 1038.4 | 965.0 | 934.6 | 932.1 |
| 62.5° | 38432.6 | 41530.2 | 27088.2 | 5045.3 | 1818.5 | 1175.2 | 1008.1 | 942.2 | 899.1 | 881.4 | 878.9 |
| 65° | 45164.7 | 44741.7 | 26612.0 | 3305.3 | 1380.4 | 997.9 | 904.2 | 868.7 | 830.8 | 813.0 | 813.0 |
| 67.5° | 49141.2 | 44063.0 | 22957.2 | 2294.7 | 1094.2 | 876.3 | 815.6 | 782.6 | 719.3 | 704.1 | 704.1 |
| 70° | 43526.0 | 35704.7 | 15047.3 | 1679.2 | 886.5 | 767.4 | 709.2 | 663.6 | 638.3 | 623.1 | 620.5 |
| 72.5° | 28787.7 | 23233.3 | 8001.1 | 1165.1 | 739.6 | 653.5 | 600.3 | 582.5 | 552.1 | 537.0 | 534.4 |
| 75° | 14328.0 | 12203.0 | 4100.6 | 840.9 | 615.5 | 524.3 | 501.5 | 493.9 | 468.6 | 448.3 | 443.2 |
| 77.5° | 5972.3 | 5432.8 | 1912.3 | 610.4 | 468.6 | 423.0 | 402.7 | 402.7 | 374.9 | 352.1 | 341.9 |
| 80° | 2251.7 | 2006.0 | 904.2 | 417.9 | 347.0 | 314.1 | 301.4 | 291.3 | 268.5 | 240.6 | 225.4 |
| 82.5° | 3011.5 | 1968.0 | 443.2 | 260.9 | 228.0 | 202.6 | 184.9 | 177.3 | 164.6 | 152.0 | 141.8 |
| 85° | 1950.2 | 1398.1 | 200.1 | 134.2 | 114.0 | 86.1 | 76.0 | 70.9 | 63.3 | 55.7 | 50.7 |
| 87.5° | 397.6 | 468.6 | 60.8 | 25.3 | 15.2 | 7.6 | 7.6 | 2.5 | 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)