

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: P643335

Luminaire Tested: GWS-SA6E-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46051.5 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

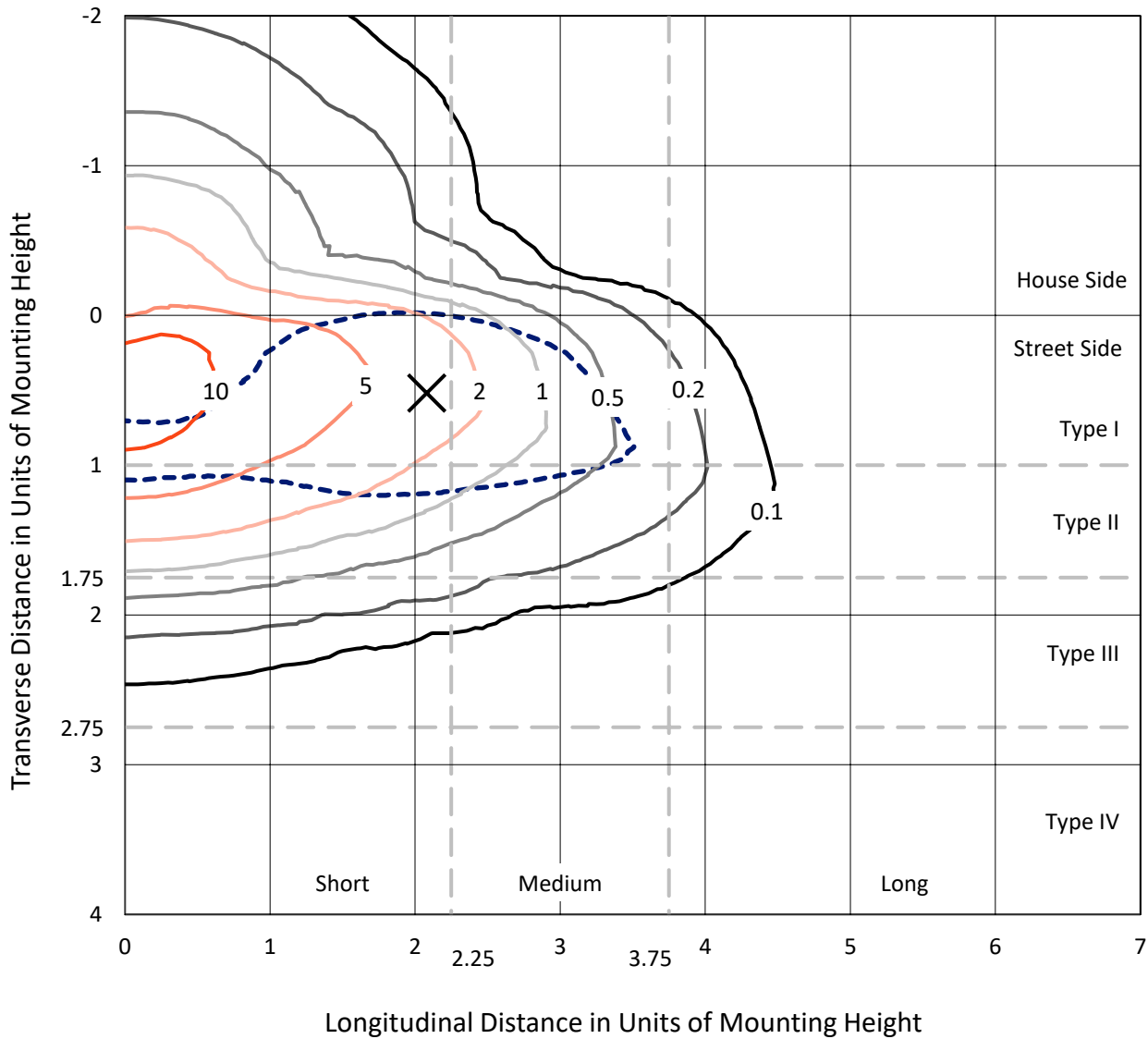
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

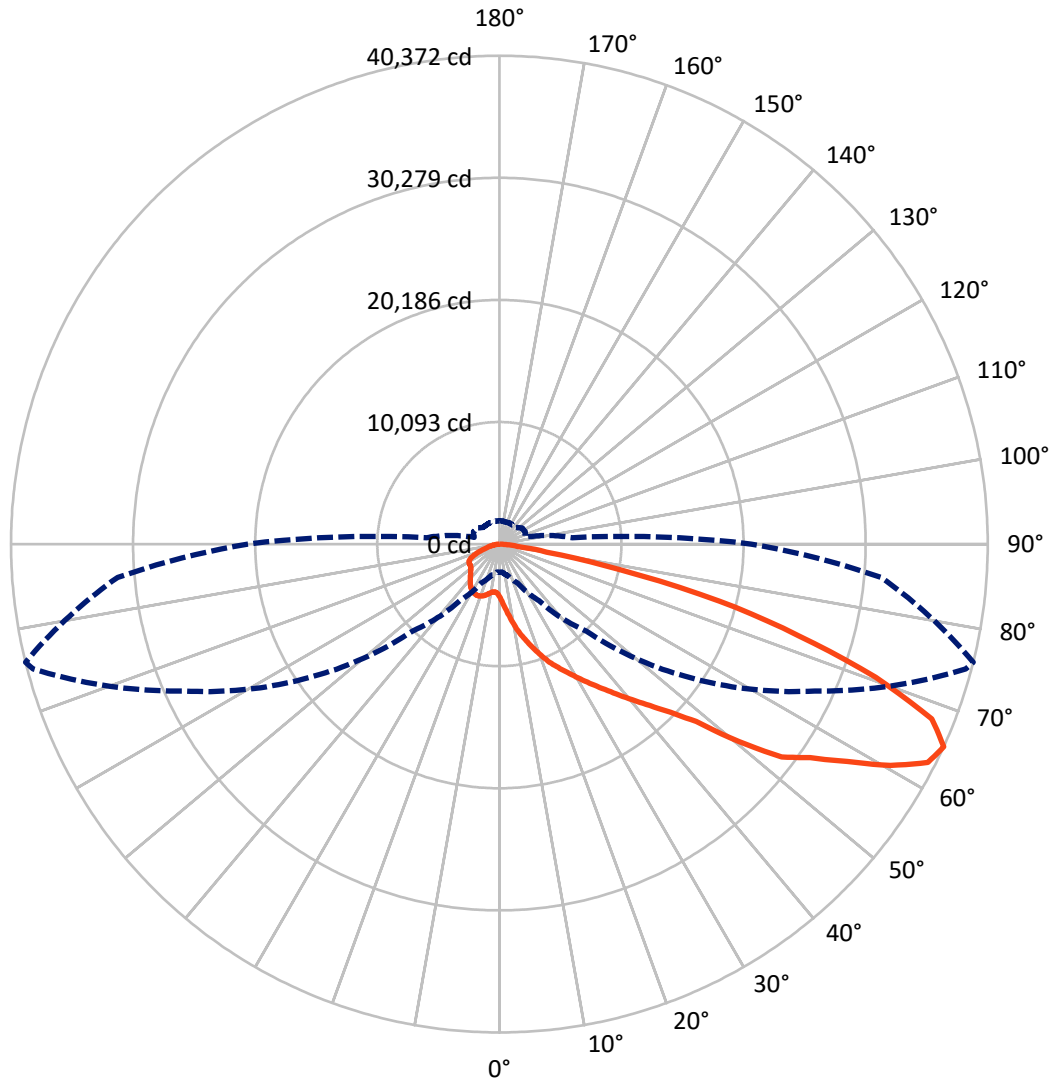
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7697.5 | 0.0 | 7697.5 |
| | % Fixture | 16.7 | 0.0 | 16.7 |
| Street Side | Lumens | 38353.9 | 0.0 | 38353.9 |
| | % Fixture | 83.3 | 0.0 | 83.3 |
| Total | Lumens | 46051.5 | 0.0 | 46051.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 518.1 | 1.1 |
| 10°-20° | 1973.4 | 4.3 |
| 20°-30° | 3845.9 | 8.4 |
| 30°-40° | 6432.0 | 14.0 |
| 40°-50° | 9209.3 | 20.0 |
| 50°-60° | 10902.6 | 23.7 |
| 60°-70° | 9065.5 | 19.7 |
| 70°-80° | 3709.8 | 8.1 |
| 80°-90° | 395.0 | 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° | 46051.5 | 100.0 |
| 0°-180° | 46051.5 | 100.0 |

Coefficient of Utilization



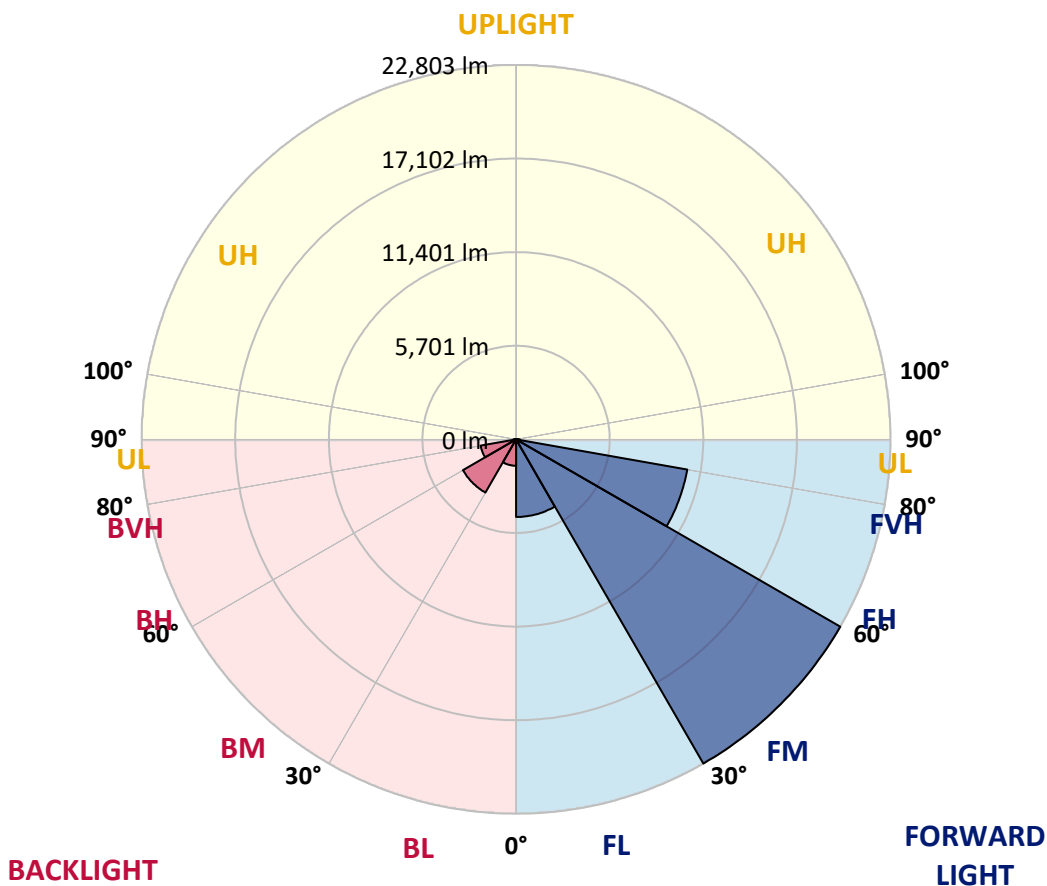
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4727.0 | 10.3 | | | |
| FM (30°-60°) | 22803.0 | 49.5 | | | |
| FH (60°-80°) | 10588.4 | 23.0 | | | G4/12000 |
| FVH (80°-90°) | 235.6 | 0.5 | | | G3/500 |
| BL (0°-30°) | 1610.3 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 3740.8 | 8.1 | B3/5000 | | |
| BH (60°-80°) | 2187.0 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 159.4 | 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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 |
| 2.5° | 6112.4 | 6135.1 | 6060.6 | 6034.7 | 5859.9 | 5623.5 | 5426.0 | 5128.2 | 4853.0 | 4810.9 | 4564.9 |
| 5° | 7763.5 | 7666.4 | 7582.2 | 7527.2 | 7284.4 | 7015.7 | 6598.0 | 6037.9 | 5451.9 | 5380.7 | 4849.8 |
| 7.5° | 8744.5 | 8728.3 | 8624.7 | 8592.3 | 8404.5 | 8135.8 | 7705.2 | 7009.2 | 6157.7 | 6041.2 | 5235.0 |
| 10° | 9531.2 | 9521.5 | 9469.7 | 9498.8 | 9327.2 | 9065.0 | 8647.4 | 7928.6 | 6931.5 | 6814.9 | 5665.6 |
| 12.5° | 10217.5 | 10233.7 | 10224.0 | 10330.8 | 10243.4 | 10039.5 | 9605.7 | 8815.7 | 7705.2 | 7579.0 | 6190.1 |
| 15° | 10719.3 | 10732.3 | 10780.9 | 11014.0 | 11062.5 | 11020.4 | 10580.1 | 9686.6 | 8469.3 | 8288.0 | 6730.8 |
| 17.5° | 10861.8 | 10887.7 | 11004.2 | 11379.8 | 11642.0 | 11816.9 | 11489.9 | 10573.7 | 9220.4 | 9022.9 | 7281.1 |
| 20° | 11052.8 | 11081.9 | 11198.5 | 11590.2 | 11975.5 | 12373.7 | 12315.4 | 11473.7 | 9978.0 | 9816.1 | 7838.0 |
| 22.5° | 11936.6 | 11914.0 | 11862.2 | 12050.0 | 12325.1 | 12820.5 | 12966.2 | 12338.1 | 10761.4 | 10606.0 | 8453.1 |
| 25° | 13639.6 | 13597.5 | 13267.3 | 13095.7 | 13005.0 | 13306.1 | 13565.1 | 13124.8 | 11525.5 | 11292.4 | 9026.1 |
| 27.5° | 15517.3 | 15494.7 | 15073.8 | 14665.9 | 14109.0 | 13979.5 | 14131.7 | 13811.2 | 12266.9 | 12030.5 | 9524.7 |
| 30° | 17294.7 | 17226.7 | 16786.4 | 16274.9 | 15530.3 | 14973.4 | 14750.0 | 14484.6 | 13079.5 | 12833.4 | 10107.5 |
| 32.5° | 18884.3 | 18796.9 | 18278.9 | 17712.3 | 16932.1 | 16274.9 | 15608.0 | 15200.0 | 13998.9 | 13714.0 | 10703.2 |
| 35° | 20189.0 | 20101.6 | 19570.7 | 18968.5 | 18110.6 | 17624.9 | 16712.0 | 15977.0 | 14934.6 | 14646.4 | 11405.7 |
| 37.5° | 21199.1 | 21118.2 | 20564.6 | 19972.1 | 19224.2 | 18839.0 | 18045.8 | 16851.2 | 16012.7 | 15711.6 | 12150.3 |
| 40° | 21765.7 | 21707.4 | 21263.9 | 20794.4 | 20166.4 | 19832.9 | 19476.8 | 17955.2 | 17220.2 | 16919.2 | 13027.7 |
| 42.5° | 21937.3 | 21898.4 | 21587.6 | 21344.8 | 20920.7 | 20668.2 | 20872.1 | 19253.4 | 18508.8 | 18246.5 | 14015.1 |
| 45° | 21506.7 | 21506.7 | 21416.0 | 21539.1 | 21558.5 | 21555.2 | 22270.7 | 20720.0 | 20091.9 | 19803.8 | 15407.2 |
| 47.5° | 20405.9 | 20477.2 | 20609.9 | 21215.3 | 21853.1 | 22387.3 | 23905.7 | 22675.4 | 22128.3 | 21891.9 | 17378.9 |
| 50° | 18392.2 | 18586.5 | 19039.7 | 20221.4 | 21577.9 | 22937.7 | 25453.2 | 25566.5 | 26087.7 | 25670.1 | 20279.7 |
| 52.5° | 15442.9 | 15413.7 | 16569.5 | 18253.0 | 20321.8 | 22960.3 | 26304.7 | 28117.7 | 29519.5 | 29231.3 | 22435.8 |
| 55° | 12273.3 | 12224.8 | 13302.9 | 15624.2 | 18395.5 | 22092.7 | 26816.2 | 29286.4 | 31423.1 | 31164.1 | 24375.1 |
| 57.5° | 9398.5 | 9336.9 | 10295.2 | 12389.9 | 15676.0 | 20250.5 | 26719.1 | 30678.5 | 34042.3 | 33909.5 | 27010.4 |
| 60° | 6468.5 | 6394.1 | 7290.8 | 9123.3 | 12457.9 | 17433.9 | 25644.2 | 31394.0 | 37108.2 | 37153.5 | 29830.3 |
| 62.5° | 3885.0 | 3842.9 | 4493.6 | 5914.9 | 8961.4 | 13943.9 | 23128.7 | 30960.2 | 39549.2 | 39753.2 | 31643.3 |
| 65° | 2343.9 | 2314.8 | 2696.8 | 3528.9 | 5685.0 | 10175.4 | 19250.1 | 28742.5 | 39902.1 | 40371.6 | 31685.4 |
| 67.5° | 1706.2 | 1709.4 | 1819.5 | 2149.7 | 3315.2 | 6572.1 | 14445.7 | 24766.8 | 38063.2 | 38548.9 | 29687.8 |
| 70° | 1482.8 | 1489.2 | 1547.5 | 1622.0 | 2004.0 | 3762.0 | 9392.0 | 19551.2 | 32627.5 | 33003.0 | 24899.6 |
| 72.5° | 1317.7 | 1317.7 | 1356.5 | 1395.4 | 1566.9 | 2292.1 | 5031.1 | 13665.5 | 25751.0 | 25851.4 | 19004.1 |
| 75° | 1159.0 | 1149.3 | 1168.7 | 1188.2 | 1359.7 | 1602.6 | 2447.5 | 9521.5 | 19020.3 | 18787.2 | 12283.1 |
| 77.5° | 922.7 | 913.0 | 916.2 | 935.6 | 1091.0 | 1146.1 | 1240.0 | 5947.3 | 10719.3 | 10117.2 | 5426.0 |
| 80° | 657.2 | 650.7 | 686.3 | 734.9 | 806.1 | 702.5 | 777.0 | 2878.1 | 4250.8 | 3956.2 | 2104.4 |
| 82.5° | 391.7 | 404.7 | 459.7 | 498.6 | 556.8 | 440.3 | 501.8 | 961.5 | 1505.4 | 1466.6 | 854.7 |
| 85° | 55.0 | 58.3 | 165.1 | 191.0 | 239.6 | 171.6 | 265.5 | 433.8 | 602.2 | 644.3 | 301.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.7 | 77.7 | 171.6 | 174.8 | 74.5 |
| 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° | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 | 4360.9 |
| 2.5° | 4438.6 | 4286.4 | 4069.5 | 3888.2 | 3736.1 | 3613.0 | 3509.4 | 3431.7 | 3409.1 | 3376.7 | 3376.7 |
| 5° | 4600.5 | 4325.3 | 3936.8 | 3661.6 | 3503.0 | 3409.1 | 3344.3 | 3312.0 | 3295.8 | 3276.3 | 3266.6 |
| 7.5° | 4823.9 | 4438.6 | 3914.1 | 3635.7 | 3512.7 | 3454.4 | 3412.3 | 3392.9 | 3379.9 | 3360.5 | 3360.5 |
| 10° | 5131.4 | 4607.0 | 3985.4 | 3726.4 | 3629.2 | 3571.0 | 3522.4 | 3490.0 | 3460.9 | 3431.7 | 3425.3 |
| 12.5° | 5464.9 | 4827.1 | 4114.9 | 3849.4 | 3745.8 | 3674.6 | 3606.6 | 3558.0 | 3522.4 | 3486.8 | 3477.1 |
| 15° | 5834.0 | 5053.7 | 4254.1 | 3969.2 | 3839.7 | 3742.5 | 3661.6 | 3587.1 | 3538.6 | 3486.8 | 3480.3 |
| 17.5° | 6196.6 | 5283.6 | 4370.6 | 4050.1 | 3885.0 | 3765.2 | 3648.7 | 3551.5 | 3490.0 | 3431.7 | 3415.6 |
| 20° | 6630.4 | 5513.5 | 4451.6 | 4072.8 | 3875.3 | 3716.6 | 3577.4 | 3454.4 | 3386.4 | 3318.4 | 3308.7 |
| 22.5° | 7028.6 | 5727.1 | 4490.4 | 4040.4 | 3800.8 | 3613.0 | 3451.2 | 3318.4 | 3244.0 | 3176.0 | 3163.0 |
| 25° | 7413.9 | 5914.9 | 4474.2 | 3962.7 | 3687.5 | 3470.6 | 3302.2 | 3169.5 | 3098.3 | 3027.1 | 3007.6 |
| 27.5° | 7786.2 | 6041.2 | 4409.5 | 3842.9 | 3545.1 | 3312.0 | 3150.1 | 3030.3 | 2968.8 | 2907.3 | 2881.4 |
| 30° | 8152.0 | 6157.7 | 4309.1 | 3687.5 | 3363.8 | 3146.8 | 3014.1 | 2929.9 | 2868.4 | 2803.7 | 2784.2 |
| 32.5° | 8521.1 | 6241.9 | 4156.9 | 3506.2 | 3179.2 | 3001.2 | 2920.2 | 2858.7 | 2794.0 | 2729.2 | 2709.8 |
| 35° | 8893.4 | 6277.5 | 3972.4 | 3299.0 | 3023.8 | 2907.3 | 2878.1 | 2806.9 | 2719.5 | 2641.8 | 2615.9 |
| 37.5° | 9336.9 | 6309.9 | 3742.5 | 3095.0 | 2887.8 | 2861.9 | 2855.5 | 2748.6 | 2645.0 | 2538.2 | 2509.1 |
| 40° | 9871.1 | 6352.0 | 3506.2 | 2910.5 | 2777.8 | 2845.8 | 2819.9 | 2674.2 | 2467.0 | 2363.4 | 2331.0 |
| 42.5° | 10525.1 | 6429.7 | 3260.2 | 2742.2 | 2696.8 | 2784.2 | 2755.1 | 2492.9 | 2353.7 | 2295.4 | 2279.2 |
| 45° | 11486.6 | 6714.6 | 3014.1 | 2609.4 | 2635.3 | 2696.8 | 2651.5 | 2386.0 | 2331.0 | 2292.1 | 2272.7 |
| 47.5° | 13199.3 | 7151.6 | 2800.4 | 2509.1 | 2586.8 | 2619.1 | 2444.3 | 2356.9 | 2314.8 | 2263.0 | 2240.3 |
| 50° | 14979.9 | 7342.6 | 2628.8 | 2447.5 | 2531.7 | 2547.9 | 2331.0 | 2318.0 | 2288.9 | 2233.9 | 2211.2 |
| 52.5° | 16184.2 | 7316.7 | 2525.2 | 2424.9 | 2486.4 | 2424.9 | 2279.2 | 2276.0 | 2256.5 | 2191.8 | 2165.9 |
| 55° | 17544.0 | 7362.1 | 2479.9 | 2431.4 | 2467.0 | 2217.7 | 2214.4 | 2224.2 | 2214.4 | 2143.2 | 2130.3 |
| 57.5° | 19379.6 | 7501.3 | 2457.3 | 2454.0 | 2454.0 | 2117.3 | 2152.9 | 2165.9 | 2146.5 | 2114.1 | 2104.4 |
| 60° | 21144.1 | 7511.0 | 2415.2 | 2479.9 | 2444.3 | 2055.8 | 2081.7 | 2094.7 | 2072.0 | 2065.5 | 2062.3 |
| 62.5° | 21807.8 | 7044.8 | 2321.3 | 2460.5 | 2405.5 | 1987.8 | 2007.2 | 2013.7 | 1991.1 | 2007.2 | 2004.0 |
| 65° | 20820.3 | 6054.1 | 2165.9 | 2366.6 | 2285.7 | 1926.3 | 1913.4 | 1929.5 | 1890.7 | 1932.8 | 1936.0 |
| 67.5° | 18486.1 | 4810.9 | 1929.5 | 2188.5 | 2117.3 | 1858.3 | 1832.4 | 1832.4 | 1767.7 | 1832.4 | 1829.2 |
| 70° | 14905.4 | 3399.4 | 1583.1 | 1903.6 | 1932.8 | 1777.4 | 1764.4 | 1690.0 | 1586.4 | 1683.5 | 1673.8 |
| 72.5° | 11298.9 | 2441.1 | 1246.4 | 1505.4 | 1664.1 | 1664.1 | 1667.3 | 1541.0 | 1421.3 | 1466.6 | 1427.7 |
| 75° | 7158.1 | 1719.1 | 997.1 | 1152.5 | 1304.7 | 1460.1 | 1534.6 | 1301.5 | 1194.6 | 1175.2 | 1155.8 |
| 77.5° | 3224.5 | 1129.9 | 777.0 | 883.8 | 925.9 | 1152.5 | 1401.8 | 1120.2 | 974.5 | 932.4 | 919.4 |
| 80° | 1350.0 | 702.5 | 553.6 | 624.8 | 569.8 | 968.0 | 1236.7 | 870.9 | 715.5 | 657.2 | 615.1 |
| 82.5° | 592.5 | 417.6 | 352.9 | 336.7 | 356.1 | 718.7 | 922.7 | 579.5 | 446.8 | 605.4 | 611.9 |
| 85° | 249.3 | 220.1 | 181.3 | 165.1 | 145.7 | 275.2 | 433.8 | 226.6 | 278.4 | 158.6 | 129.5 |
| 87.5° | 58.3 | 64.7 | 48.6 | 32.4 | 19.4 | 3.2 | 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)