

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: P643717

Luminaire Tested: GWS-SA6F-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33363.2 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

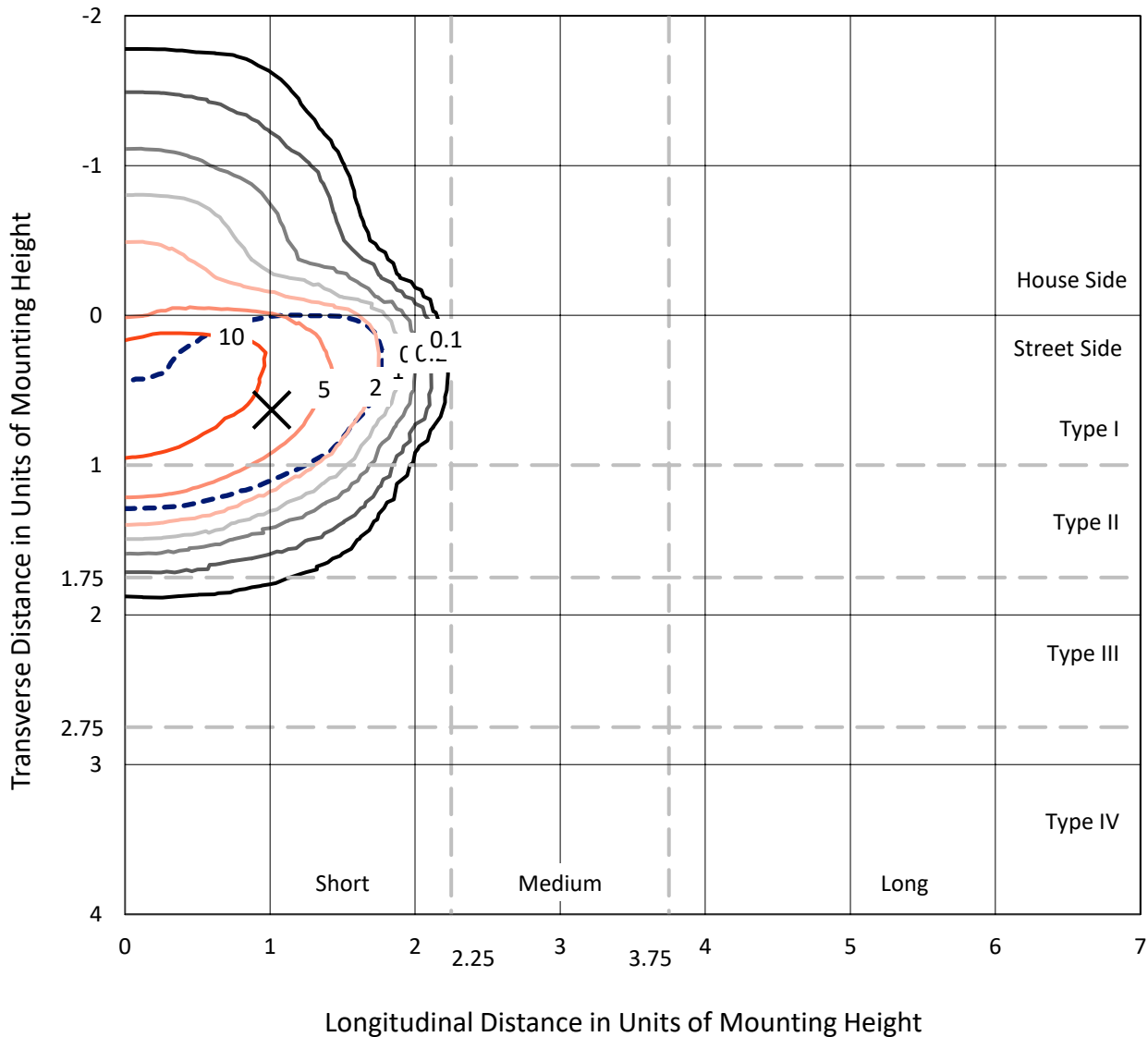
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

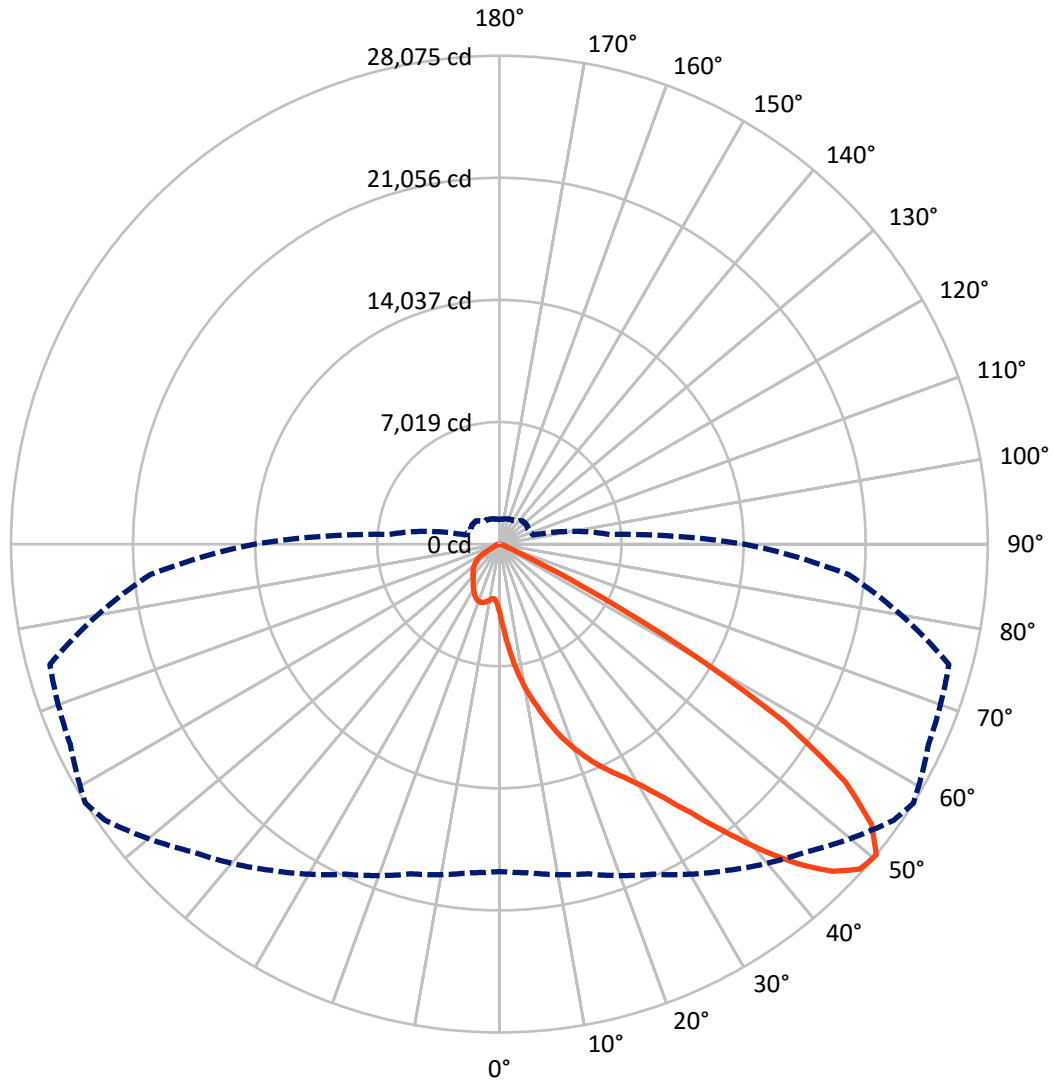
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4673.0 | 0.0 | 4673.0 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 28690.2 | 0.0 | 28690.2 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 33363.2 | 0.0 | 33363.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 493.7 | 1.5 |
| 10°-20° | 1954.4 | 5.9 |
| 20°-30° | 3954.8 | 11.9 |
| 30°-40° | 6996.6 | 21.0 |
| 40°-50° | 10199.5 | 30.6 |
| 50°-60° | 8175.2 | 24.5 |
| 60°-70° | 1472.8 | 4.4 |
| 70°-80° | 116.1 | 0.3 |
| 80°-90° | 0.1 | 0.0 |
| 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° | 33363.2 | 100.0 |
| 0°-180° | 33363.2 | 100.0 |

Coefficient of Utilization



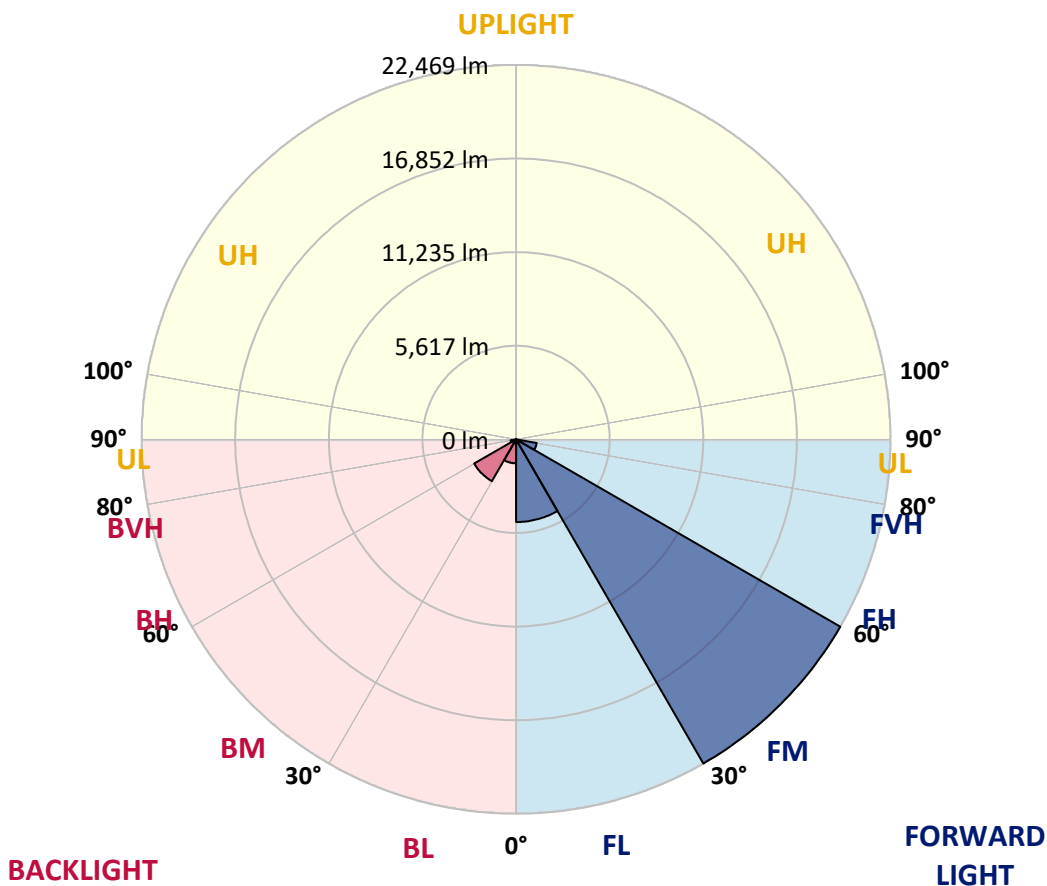
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4964.3 | 14.9 | | | |
| FM (30°-60°) | 22469.1 | 67.3 | | | |
| FH (60°-80°) | 1256.8 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1438.6 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 2902.1 | 8.7 | B3/5000 | | |
| BH (60°-80°) | 332.1 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 |
| 2.5° | 5897.5 | 5804.7 | 5751.2 | 5708.4 | 5519.3 | 5219.6 | 5023.4 | 4919.9 | 4748.7 | 4459.7 | 4209.9 |
| 5° | 7695.6 | 7627.8 | 7503.0 | 7417.4 | 7174.7 | 6750.2 | 6311.4 | 6136.5 | 5747.6 | 5094.7 | 4509.6 |
| 7.5° | 8887.3 | 8837.3 | 8790.9 | 8676.8 | 8448.4 | 8063.1 | 7577.9 | 7395.9 | 6796.6 | 5868.9 | 4909.2 |
| 10° | 9804.2 | 9764.9 | 9711.4 | 9707.8 | 9529.5 | 9183.4 | 8708.9 | 8519.8 | 7870.5 | 6710.9 | 5380.2 |
| 12.5° | 10610.5 | 10578.4 | 10567.7 | 10667.6 | 10553.4 | 10296.5 | 9782.8 | 9547.3 | 8858.7 | 7570.8 | 5901.1 |
| 15° | 11163.5 | 11156.4 | 11202.7 | 11399.0 | 11463.2 | 11345.4 | 10913.7 | 10660.4 | 9868.4 | 8434.2 | 6475.5 |
| 17.5° | 11416.8 | 11438.2 | 11527.4 | 11866.3 | 12151.8 | 12251.7 | 11919.9 | 11705.8 | 10870.9 | 9308.3 | 7089.1 |
| 20° | 11848.5 | 11841.4 | 11894.9 | 12216.0 | 12565.6 | 12922.4 | 12822.5 | 12640.5 | 11884.2 | 10232.3 | 7770.6 |
| 22.5° | 13065.1 | 12961.6 | 12847.5 | 12897.4 | 13022.3 | 13439.7 | 13625.2 | 13532.5 | 12929.5 | 11181.3 | 8473.4 |
| 25° | 14934.6 | 14827.6 | 14460.1 | 14103.3 | 13867.8 | 14056.9 | 14310.2 | 14356.6 | 13967.7 | 12155.3 | 9208.4 |
| 27.5° | 16918.3 | 16821.9 | 16408.1 | 15872.9 | 15198.6 | 14870.4 | 15059.5 | 15152.2 | 14988.1 | 13314.8 | 9989.7 |
| 30° | 18777.1 | 18648.6 | 18195.5 | 17531.9 | 16750.6 | 16247.5 | 16033.5 | 16097.7 | 16194.0 | 14688.4 | 10906.6 |
| 32.5° | 20389.7 | 20293.4 | 19751.1 | 19051.8 | 18299.0 | 17774.5 | 17275.0 | 17382.1 | 17617.6 | 16368.8 | 12080.4 |
| 35° | 21756.1 | 21706.2 | 21131.8 | 20436.1 | 19640.5 | 19372.9 | 18944.8 | 18966.2 | 19201.6 | 18398.9 | 13511.1 |
| 37.5° | 22944.2 | 22858.6 | 22337.7 | 21691.9 | 21060.4 | 21017.6 | 20899.9 | 20910.6 | 21031.9 | 20764.3 | 15155.8 |
| 40° | 23693.4 | 23614.9 | 23243.9 | 22844.3 | 22394.8 | 22401.9 | 23012.0 | 23058.4 | 22919.2 | 23086.9 | 16893.3 |
| 42.5° | 23975.3 | 23918.2 | 23718.4 | 23722.0 | 23675.6 | 23886.1 | 25031.3 | 25117.0 | 24617.5 | 24910.0 | 18377.5 |
| 45° | 23486.5 | 23461.5 | 23475.8 | 23989.6 | 24546.1 | 25195.5 | 26683.2 | 26833.0 | 26126.6 | 26119.5 | 19537.0 |
| 47.5° | 21909.6 | 21859.6 | 22277.0 | 23151.1 | 24439.1 | 25702.1 | 27682.2 | 27914.1 | 27182.7 | 26811.6 | 20264.8 |
| 50° | 18819.9 | 18962.6 | 19622.6 | 20935.6 | 22894.3 | 25006.4 | 27671.5 | 28074.6 | 27221.9 | 26751.0 | 20143.5 |
| 52.5° | 13632.4 | 13603.8 | 15048.8 | 16854.1 | 19237.3 | 22780.1 | 26201.6 | 26790.2 | 26269.3 | 26155.2 | 19872.4 |
| 55° | 7417.4 | 7677.8 | 8651.8 | 11042.2 | 14017.7 | 18566.6 | 22844.3 | 24128.7 | 24731.6 | 25937.5 | 20361.2 |
| 57.5° | 2725.8 | 2839.9 | 3450.0 | 5141.1 | 7420.9 | 11545.2 | 17449.9 | 19387.2 | 21249.5 | 25331.0 | 20279.1 |
| 60° | 1098.9 | 1120.3 | 1362.9 | 1890.9 | 3118.2 | 5876.1 | 10467.8 | 12187.4 | 13942.8 | 19390.7 | 15562.5 |
| 62.5° | 799.2 | 827.7 | 924.0 | 1106.0 | 1576.9 | 2568.8 | 4513.2 | 5248.2 | 5736.9 | 9604.4 | 7667.1 |
| 65° | 645.8 | 667.2 | 745.7 | 827.7 | 1041.8 | 1380.7 | 1455.6 | 1402.1 | 1395.0 | 2483.2 | 1758.9 |
| 67.5° | 535.2 | 556.6 | 613.7 | 670.7 | 749.2 | 688.6 | 499.5 | 524.5 | 428.1 | 424.6 | 346.1 |
| 70° | 392.5 | 417.4 | 474.5 | 535.2 | 449.5 | 185.5 | 289.0 | 428.1 | 324.7 | 271.1 | 264.0 |
| 72.5° | 296.1 | 314.0 | 367.5 | 349.6 | 132.0 | 71.4 | 192.7 | 310.4 | 249.7 | 199.8 | 196.2 |
| 75° | 221.2 | 231.9 | 185.5 | 57.1 | 14.3 | 17.8 | 71.4 | 128.4 | 139.1 | 114.2 | 114.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 | 10.7 | 14.3 | 17.8 | 21.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 | 3985.2 |
| 2.5° | 4067.2 | 3917.4 | 3703.3 | 3524.9 | 3389.4 | 3257.4 | 3157.5 | 3057.6 | 3054.0 | 3004.0 | 2993.3 |
| 5° | 4238.5 | 3967.3 | 3574.9 | 3293.0 | 3121.8 | 3018.3 | 2947.0 | 2911.3 | 2893.4 | 2875.6 | 2868.5 |
| 7.5° | 4484.7 | 4095.8 | 3553.5 | 3253.8 | 3111.1 | 3043.3 | 2993.3 | 2971.9 | 2961.2 | 2947.0 | 2943.4 |
| 10° | 4787.9 | 4281.3 | 3632.0 | 3328.7 | 3203.8 | 3139.6 | 3086.1 | 3054.0 | 3036.2 | 3011.2 | 3004.0 |
| 12.5° | 5151.8 | 4509.6 | 3756.8 | 3453.6 | 3321.6 | 3235.9 | 3164.6 | 3118.2 | 3093.2 | 3061.1 | 3054.0 |
| 15° | 5544.3 | 4755.8 | 3896.0 | 3567.8 | 3410.8 | 3300.2 | 3211.0 | 3139.6 | 3093.2 | 3054.0 | 3043.3 |
| 17.5° | 5951.0 | 5005.6 | 4020.9 | 3646.2 | 3453.6 | 3321.6 | 3193.1 | 3096.8 | 3039.7 | 2989.8 | 2975.5 |
| 20° | 6407.7 | 5262.4 | 4102.9 | 3660.5 | 3439.3 | 3264.5 | 3114.6 | 2993.3 | 2936.3 | 2868.5 | 2854.2 |
| 22.5° | 6885.8 | 5501.5 | 4138.6 | 3628.4 | 3360.8 | 3157.5 | 2996.9 | 2872.0 | 2790.0 | 2718.6 | 2697.2 |
| 25° | 7349.6 | 5715.5 | 4120.8 | 3539.2 | 3243.1 | 3007.6 | 2843.5 | 2715.1 | 2625.9 | 2554.5 | 2536.7 |
| 27.5° | 7841.9 | 5893.9 | 4056.5 | 3407.2 | 3082.5 | 2843.5 | 2686.5 | 2575.9 | 2493.9 | 2415.4 | 2397.5 |
| 30° | 8394.9 | 6058.0 | 3953.1 | 3246.7 | 2893.4 | 2675.8 | 2554.5 | 2479.6 | 2390.4 | 2308.3 | 2283.4 |
| 32.5° | 9062.1 | 6204.3 | 3803.2 | 3054.0 | 2725.8 | 2529.5 | 2461.7 | 2404.7 | 2301.2 | 2215.6 | 2197.7 |
| 35° | 9825.6 | 6325.6 | 3614.1 | 2854.2 | 2561.6 | 2436.8 | 2422.5 | 2347.6 | 2212.0 | 2112.1 | 2090.7 |
| 37.5° | 10710.4 | 6443.4 | 3389.4 | 2658.0 | 2440.3 | 2394.0 | 2397.5 | 2269.1 | 2105.0 | 1983.7 | 1969.4 |
| 40° | 11663.0 | 6561.1 | 3139.6 | 2486.7 | 2329.7 | 2369.0 | 2336.9 | 2154.9 | 1887.3 | 1769.6 | 1755.3 |
| 42.5° | 12654.8 | 6689.5 | 2886.3 | 2326.2 | 2237.0 | 2272.7 | 2226.3 | 1926.6 | 1733.9 | 1673.3 | 1666.1 |
| 45° | 13550.3 | 6842.9 | 2611.6 | 2165.6 | 2144.2 | 2133.5 | 2055.0 | 1744.6 | 1662.6 | 1619.8 | 1616.2 |
| 47.5° | 14196.1 | 6818.0 | 2319.0 | 2012.2 | 2044.3 | 2008.6 | 1769.6 | 1659.0 | 1591.2 | 1534.1 | 1519.9 |
| 50° | 14078.3 | 6382.7 | 2015.8 | 1841.0 | 1915.9 | 1883.8 | 1591.2 | 1559.1 | 1498.5 | 1437.8 | 1416.4 |
| 52.5° | 13778.7 | 5790.5 | 1751.8 | 1659.0 | 1776.7 | 1701.8 | 1469.9 | 1437.8 | 1384.3 | 1305.8 | 1280.8 |
| 55° | 13939.2 | 5233.9 | 1544.8 | 1512.7 | 1634.0 | 1409.3 | 1334.3 | 1284.4 | 1227.3 | 1141.7 | 1131.0 |
| 57.5° | 13421.9 | 4270.6 | 1241.6 | 1263.0 | 1444.9 | 1202.3 | 1170.2 | 1091.7 | 995.4 | 938.3 | 931.2 |
| 60° | 9290.4 | 2294.1 | 777.8 | 802.7 | 1045.4 | 1009.7 | 1048.9 | 977.6 | 859.8 | 806.3 | 795.6 |
| 62.5° | 4267.0 | 920.5 | 424.6 | 406.7 | 549.4 | 685.0 | 899.1 | 891.9 | 745.7 | 660.0 | 652.9 |
| 65° | 1034.6 | 421.0 | 303.3 | 285.4 | 310.4 | 410.3 | 585.1 | 702.8 | 602.9 | 503.1 | 492.3 |
| 67.5° | 335.4 | 342.5 | 278.3 | 260.4 | 274.7 | 306.8 | 349.6 | 388.9 | 385.3 | 353.2 | 346.1 |
| 70° | 267.6 | 310.4 | 256.9 | 235.5 | 235.5 | 246.2 | 235.5 | 189.1 | 164.1 | 178.4 | 185.5 |
| 72.5° | 199.8 | 235.5 | 203.4 | 182.0 | 174.8 | 171.3 | 146.3 | 107.0 | 74.9 | 67.8 | 64.2 |
| 75° | 117.7 | 132.0 | 124.9 | 107.0 | 99.9 | 89.2 | 71.4 | 46.4 | 25.0 | 17.8 | 10.7 |
| 77.5° | 21.4 | 25.0 | 28.5 | 21.4 | 17.8 | 14.3 | 10.7 | 3.6 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 3.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)