

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: P640729

Luminaire Tested: GWS-SA5E-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31438.4 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

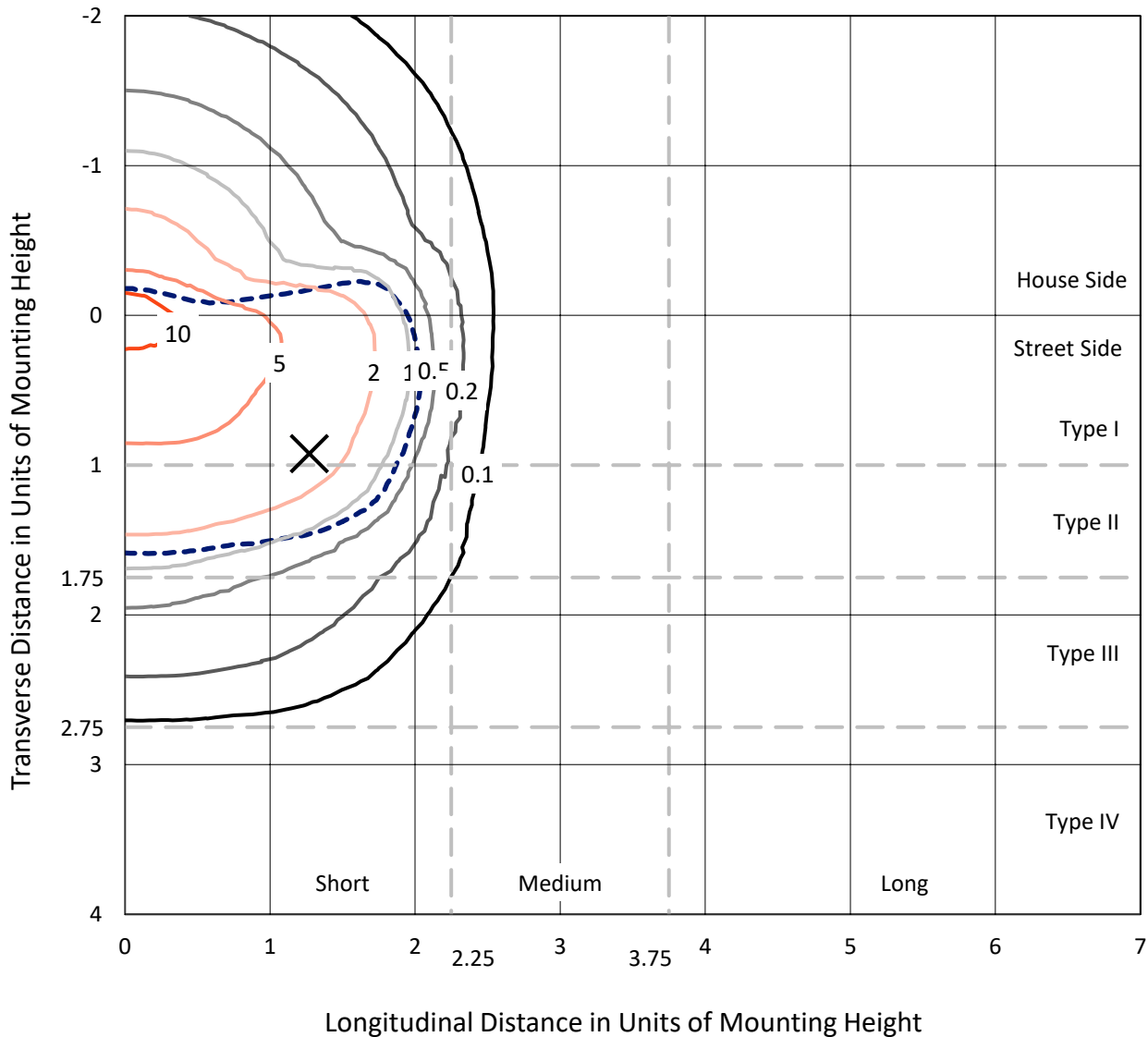
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

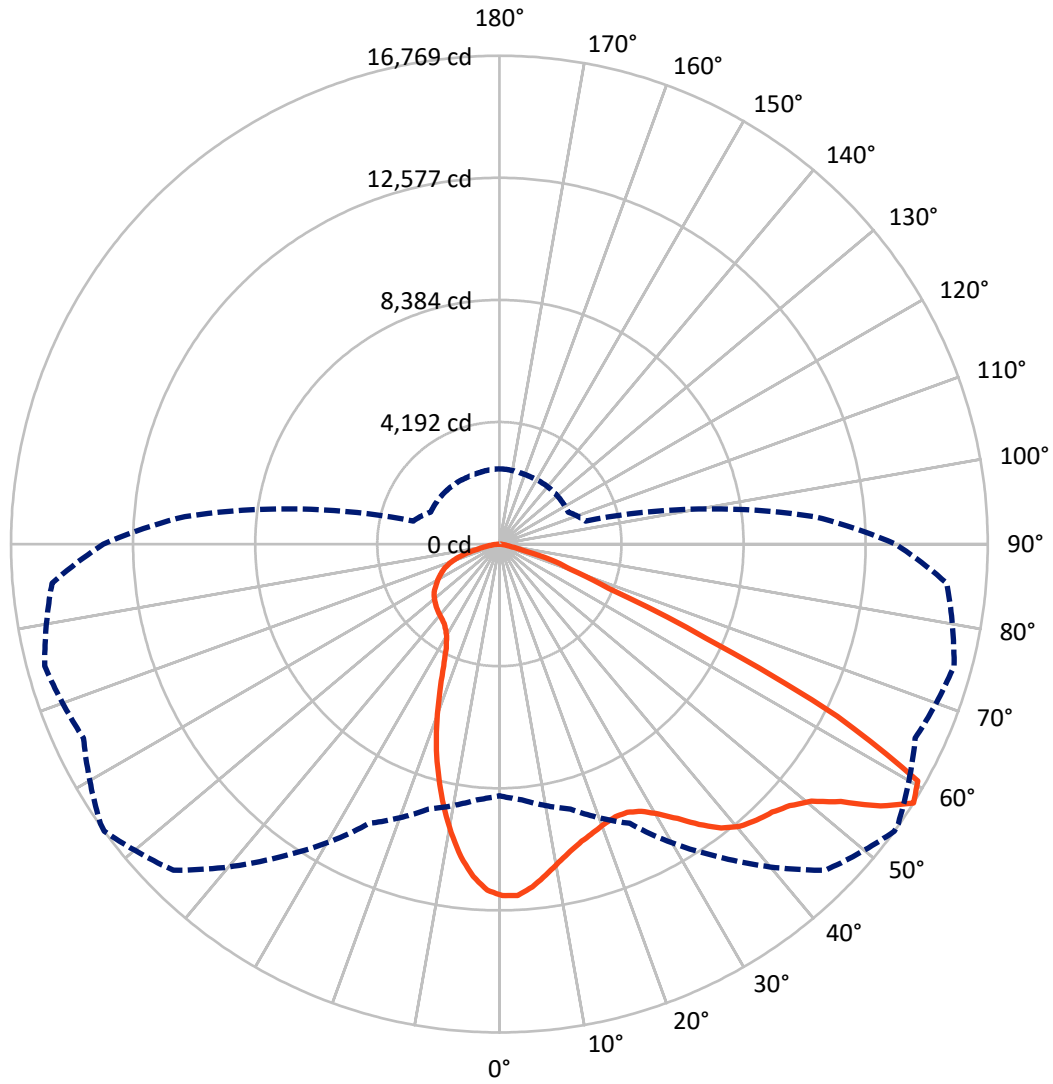
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9139.5 | 0.0 | 9139.5 |
| | % Fixture | 29.1 | 0.0 | 29.1 |
| Street Side | Lumens | 22298.9 | 0.0 | 22298.9 |
| | % Fixture | 70.9 | 0.0 | 70.9 |
| Total | Lumens | 31438.4 | 0.0 | 31438.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1060.9 | 3.4 |
| 10°-20° | 2531.5 | 8.1 |
| 20°-30° | 3503.2 | 11.1 |
| 30°-40° | 4867.8 | 15.5 |
| 40°-50° | 6428.8 | 20.4 |
| 50°-60° | 7639.7 | 24.3 |
| 60°-70° | 4232.5 | 13.5 |
| 70°-80° | 1054.0 | 3.4 |
| 80°-90° | 119.9 | 0.4 |
| 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° | 31438.4 | 100.0 |
| 0°-180° | 31438.4 | 100.0 |

Coefficient of Utilization



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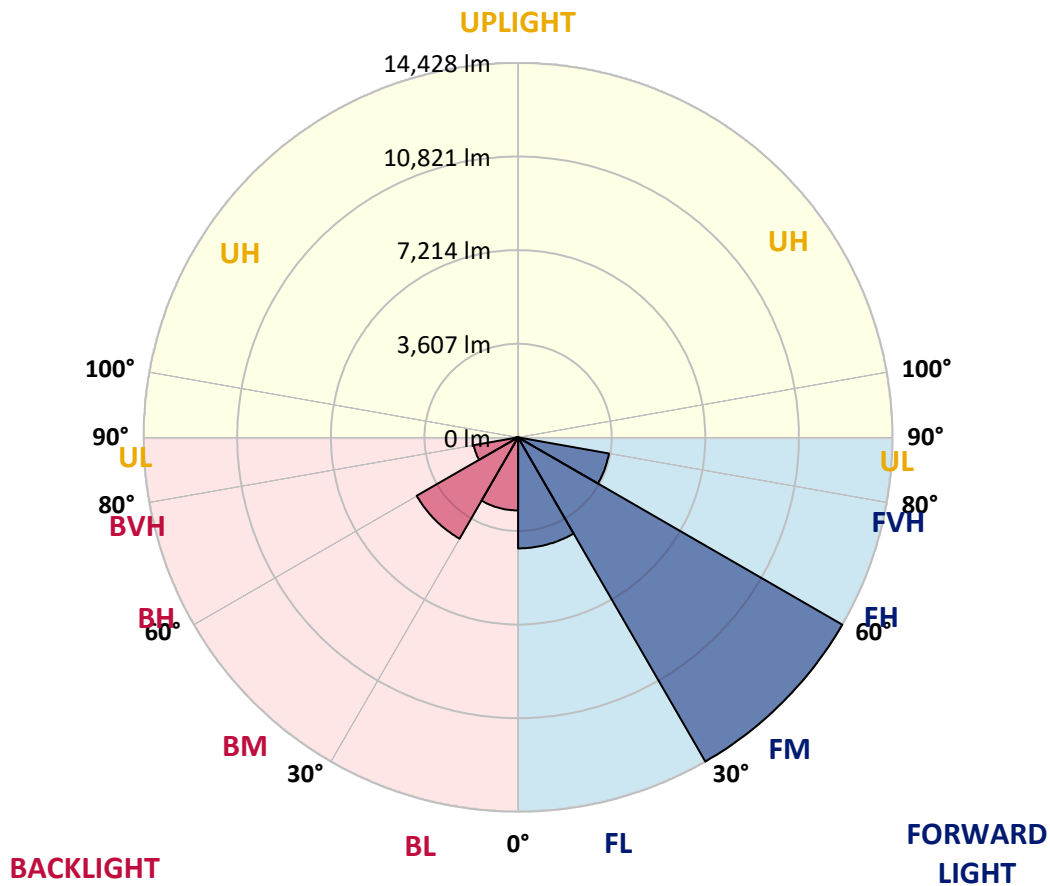
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4279.3 | 13.6 | | | |
| FM (30°-60°) | 14427.6 | 45.9 | | | |
| FH (60°-80°) | 3554.5 | 11.3 | | | G2/5000 |
| FVH (80°-90°) | 37.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2816.4 | 9.0 | B4/5000 | | |
| BM (30°-60°) | 4508.7 | 14.3 | B3/5000 | | |
| BH (60°-80°) | 1732.0 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 82.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 |
| 2.5° | 11843.9 | 11868.1 | 11884.2 | 11940.7 | 11989.2 | 12032.2 | 12078.0 | 12078.0 | 12075.3 | 12067.2 | 12051.1 |
| 5° | 11375.6 | 11402.5 | 11440.2 | 11518.2 | 11623.2 | 11698.5 | 11822.3 | 11833.1 | 11886.9 | 11908.4 | 11897.7 |
| 7.5° | 10832.0 | 10840.0 | 10888.5 | 10990.8 | 11157.6 | 11292.2 | 11469.8 | 11491.3 | 11620.5 | 11695.8 | 11682.4 |
| 10° | 10237.2 | 10210.3 | 10296.4 | 10447.1 | 10665.1 | 10891.2 | 11119.9 | 11138.8 | 11346.0 | 11488.6 | 11477.9 |
| 12.5° | 9693.6 | 9696.3 | 9782.4 | 9965.4 | 10237.2 | 10517.1 | 10823.9 | 10867.0 | 11122.6 | 11305.6 | 11286.8 |
| 15° | 9238.8 | 9249.6 | 9354.5 | 9561.7 | 9871.2 | 10204.9 | 10587.1 | 10627.4 | 10950.4 | 11192.6 | 11138.8 |
| 17.5° | 8875.5 | 8886.3 | 8977.8 | 9214.6 | 9545.6 | 9949.3 | 10414.8 | 10455.2 | 10856.2 | 11144.2 | 11033.8 |
| 20° | 8625.2 | 8619.8 | 8708.6 | 8934.7 | 9276.5 | 9715.1 | 10264.1 | 10323.3 | 10826.6 | 11163.0 | 10963.8 |
| 22.5° | 8522.9 | 8520.3 | 8584.8 | 8770.5 | 9090.8 | 9534.8 | 10172.6 | 10253.4 | 10858.9 | 11246.4 | 10920.8 |
| 25° | 8574.1 | 8563.3 | 8619.8 | 8757.1 | 9012.7 | 9464.9 | 10199.5 | 10285.7 | 10996.1 | 11418.7 | 10928.9 |
| 27.5° | 8732.9 | 8719.4 | 8767.8 | 8891.6 | 9085.4 | 9537.5 | 10387.9 | 10487.5 | 11286.8 | 11733.5 | 11036.5 |
| 30° | 8975.1 | 8967.0 | 9015.4 | 9133.8 | 9303.4 | 9779.7 | 10748.5 | 10861.6 | 11736.2 | 12223.3 | 11270.6 |
| 32.5° | 9257.6 | 9244.2 | 9330.3 | 9467.6 | 9664.0 | 10221.1 | 11233.0 | 11381.0 | 12269.1 | 12853.0 | 11663.5 |
| 35° | 9575.2 | 9564.4 | 9682.8 | 9882.0 | 10164.6 | 10834.7 | 11819.6 | 11981.1 | 12812.7 | 13566.2 | 12185.6 |
| 37.5° | 9884.7 | 9884.7 | 10113.4 | 10409.5 | 10764.7 | 11502.1 | 12371.3 | 12473.6 | 13189.4 | 14198.6 | 12745.4 |
| 40° | 10159.2 | 10175.3 | 10519.8 | 10963.8 | 11416.0 | 12104.9 | 12734.6 | 12820.8 | 13356.3 | 14634.6 | 13232.5 |
| 42.5° | 10463.3 | 10476.7 | 10877.7 | 11459.0 | 11997.3 | 12592.0 | 12955.3 | 12998.4 | 13388.6 | 14852.6 | 13577.0 |
| 45° | 10705.5 | 10724.3 | 11222.2 | 11843.9 | 12503.2 | 12958.0 | 13130.2 | 13167.9 | 13434.3 | 14971.0 | 13827.3 |
| 47.5° | 10832.0 | 10858.9 | 11429.4 | 12153.3 | 12845.0 | 13286.3 | 13418.2 | 13434.3 | 13622.7 | 15178.2 | 14128.7 |
| 50° | 10810.4 | 10864.3 | 11507.5 | 12306.7 | 13097.9 | 13617.3 | 13881.1 | 13908.0 | 14007.6 | 15482.3 | 14481.2 |
| 52.5° | 11001.5 | 11025.7 | 11674.3 | 12489.7 | 13458.6 | 14228.2 | 14685.7 | 14723.4 | 14677.7 | 15711.1 | 14691.1 |
| 55° | 10684.0 | 10799.7 | 11467.1 | 12462.8 | 14007.6 | 15172.8 | 15877.9 | 15859.1 | 15285.9 | 15966.7 | 15041.0 |
| 57.5° | 8641.4 | 8810.9 | 9421.8 | 10579.0 | 13103.3 | 15834.9 | 16768.7 | 16723.0 | 15756.8 | 16163.2 | 15420.4 |
| 60° | 5982.5 | 6009.4 | 6561.1 | 7381.9 | 10113.4 | 13988.7 | 16507.7 | 16607.2 | 15842.9 | 15915.6 | 14718.0 |
| 62.5° | 4784.9 | 4776.8 | 4828.0 | 4849.5 | 6431.9 | 9833.6 | 13030.7 | 13394.0 | 13162.5 | 12400.9 | 10431.0 |
| 65° | 4085.2 | 4114.8 | 4265.5 | 4187.5 | 4198.2 | 5538.4 | 7785.6 | 7836.7 | 7675.2 | 7400.7 | 5516.9 |
| 67.5° | 3197.1 | 3248.2 | 3514.7 | 3818.8 | 3721.9 | 3565.8 | 4039.5 | 4015.2 | 3164.8 | 2449.0 | 2023.8 |
| 70° | 2002.2 | 2034.5 | 2319.8 | 2998.0 | 3240.2 | 2928.0 | 2597.0 | 2586.2 | 1695.4 | 1394.0 | 1528.6 |
| 72.5° | 1168.0 | 1173.4 | 1254.1 | 1671.2 | 2150.2 | 2002.2 | 1910.7 | 1840.8 | 1089.9 | 1111.5 | 1219.1 |
| 75° | 643.2 | 643.2 | 640.5 | 721.2 | 847.7 | 750.8 | 726.6 | 707.8 | 729.3 | 826.2 | 906.9 |
| 77.5° | 134.6 | 137.2 | 145.3 | 191.1 | 247.6 | 301.4 | 379.5 | 382.1 | 476.3 | 551.7 | 616.3 |
| 80° | 61.9 | 64.6 | 80.7 | 102.3 | 131.9 | 174.9 | 231.4 | 234.1 | 288.0 | 347.2 | 390.2 |
| 82.5° | 32.3 | 35.0 | 43.1 | 53.8 | 70.0 | 91.5 | 129.2 | 129.2 | 172.2 | 204.5 | 231.4 |
| 85° | 10.8 | 10.8 | 16.1 | 21.5 | 29.6 | 37.7 | 51.1 | 51.1 | 75.4 | 99.6 | 115.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 5.4 | 10.8 | 10.8 | 13.5 | 16.1 | 26.9 |
| 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-740-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 | 12069.9 |
| 2.5° | 12016.1 | 11932.7 | 11935.4 | 11951.5 | 11900.4 | 11822.3 | 11771.2 | 11706.6 | 11666.2 | 11658.2 | 11687.8 |
| 5° | 11843.9 | 11747.0 | 11679.7 | 11609.7 | 11464.4 | 11292.2 | 11157.6 | 11047.3 | 10974.6 | 10947.7 | 10915.4 |
| 7.5° | 11607.0 | 11480.5 | 11311.0 | 11114.5 | 10850.8 | 10544.0 | 10328.7 | 10126.9 | 9986.9 | 9946.6 | 9927.7 |
| 10° | 11370.2 | 11187.2 | 10885.8 | 10519.8 | 10081.1 | 9666.7 | 9276.5 | 8977.8 | 8740.9 | 8606.4 | 8649.4 |
| 12.5° | 11125.3 | 10899.3 | 10428.3 | 9865.8 | 9254.9 | 8630.6 | 8119.3 | 7624.1 | 7241.9 | 7050.9 | 6994.4 |
| 15° | 10910.0 | 10603.2 | 9946.6 | 9185.0 | 8372.2 | 7586.4 | 6846.3 | 6103.6 | 5619.2 | 5355.4 | 5282.8 |
| 17.5° | 10727.0 | 10328.7 | 9437.9 | 8490.7 | 7519.1 | 6399.6 | 5490.0 | 4801.1 | 4470.0 | 4324.7 | 4314.0 |
| 20° | 10546.7 | 10059.6 | 8934.7 | 7742.5 | 6534.2 | 5280.1 | 4467.3 | 4144.4 | 4026.0 | 3974.9 | 3972.2 |
| 22.5° | 10385.2 | 9777.0 | 8404.5 | 6994.4 | 5554.6 | 4437.7 | 3991.0 | 3851.1 | 3818.8 | 3818.8 | 3813.4 |
| 25° | 10248.0 | 9494.5 | 7860.9 | 6200.5 | 4669.2 | 3950.6 | 3743.4 | 3684.2 | 3697.7 | 3721.9 | 3724.6 |
| 27.5° | 10191.5 | 9273.8 | 7336.1 | 5385.0 | 4058.3 | 3668.1 | 3573.9 | 3565.8 | 3603.5 | 3641.2 | 3646.5 |
| 30° | 10250.7 | 9123.1 | 6797.9 | 4604.6 | 3692.3 | 3495.8 | 3452.8 | 3468.9 | 3514.7 | 3552.3 | 3552.3 |
| 32.5° | 10433.7 | 9047.7 | 6248.9 | 4034.1 | 3479.7 | 3374.7 | 3361.3 | 3377.4 | 3412.4 | 3433.9 | 3436.6 |
| 35° | 10743.2 | 9077.3 | 5681.1 | 3649.2 | 3342.4 | 3285.9 | 3283.2 | 3294.0 | 3307.5 | 3320.9 | 3323.6 |
| 37.5° | 11133.4 | 9209.2 | 5072.9 | 3425.9 | 3253.6 | 3221.3 | 3216.0 | 3213.3 | 3216.0 | 3216.0 | 3218.6 |
| 40° | 11515.5 | 9408.3 | 4529.2 | 3294.0 | 3191.7 | 3164.8 | 3151.4 | 3132.5 | 3129.8 | 3124.5 | 3121.8 |
| 42.5° | 11798.1 | 9561.7 | 4096.0 | 3199.8 | 3135.2 | 3102.9 | 3086.8 | 3057.2 | 3054.5 | 3051.8 | 3049.1 |
| 45° | 12010.7 | 9690.9 | 3735.3 | 3108.3 | 3076.0 | 3046.4 | 3011.4 | 2984.5 | 2989.9 | 2995.3 | 2995.3 |
| 47.5° | 12250.2 | 9803.9 | 3471.6 | 3022.2 | 3003.4 | 2973.7 | 2930.7 | 2911.9 | 2930.7 | 2949.5 | 2949.5 |
| 50° | 12540.9 | 9962.7 | 3256.3 | 2936.1 | 2928.0 | 2893.0 | 2855.3 | 2847.3 | 2868.8 | 2895.7 | 2895.7 |
| 52.5° | 12753.5 | 10100.0 | 3102.9 | 2850.0 | 2850.0 | 2804.2 | 2771.9 | 2769.2 | 2793.4 | 2820.4 | 2823.0 |
| 55° | 13151.8 | 10420.2 | 3049.1 | 2750.4 | 2739.6 | 2704.6 | 2680.4 | 2661.6 | 2691.2 | 2715.4 | 2715.4 |
| 57.5° | 13601.2 | 10845.4 | 3062.6 | 2607.7 | 2594.3 | 2583.5 | 2564.7 | 2543.2 | 2551.2 | 2578.1 | 2580.8 |
| 60° | 12648.5 | 10021.9 | 2914.5 | 2465.1 | 2457.0 | 2451.7 | 2427.4 | 2389.8 | 2400.5 | 2422.1 | 2424.7 |
| 62.5° | 8835.1 | 6660.7 | 2357.5 | 2287.5 | 2314.4 | 2311.7 | 2279.4 | 2236.4 | 2239.1 | 2268.7 | 2268.7 |
| 65° | 4585.8 | 3603.5 | 2069.5 | 2126.0 | 2166.4 | 2150.2 | 2096.4 | 2058.7 | 2053.4 | 2091.0 | 2083.0 |
| 67.5° | 1978.0 | 1967.2 | 1883.8 | 1956.5 | 1999.5 | 1964.6 | 1908.0 | 1846.1 | 1851.5 | 1865.0 | 1854.2 |
| 70° | 1593.2 | 1641.6 | 1676.6 | 1754.6 | 1789.6 | 1725.0 | 1663.1 | 1628.2 | 1598.6 | 1595.9 | 1577.0 |
| 72.5° | 1272.9 | 1340.2 | 1418.2 | 1499.0 | 1509.7 | 1445.2 | 1367.1 | 1334.8 | 1289.1 | 1286.4 | 1267.5 |
| 75° | 958.1 | 1014.6 | 1076.5 | 1141.1 | 1141.1 | 1079.2 | 1028.0 | 1011.9 | 958.1 | 941.9 | 925.8 |
| 77.5° | 654.0 | 688.9 | 737.4 | 753.5 | 769.7 | 745.5 | 694.3 | 667.4 | 605.5 | 589.4 | 567.8 |
| 80° | 411.7 | 436.0 | 465.6 | 476.3 | 492.5 | 462.9 | 422.5 | 392.9 | 349.9 | 336.4 | 325.6 |
| 82.5° | 247.6 | 263.7 | 282.6 | 288.0 | 301.4 | 279.9 | 242.2 | 220.7 | 196.5 | 185.7 | 177.6 |
| 85° | 126.5 | 134.6 | 145.3 | 148.0 | 145.3 | 123.8 | 110.3 | 99.6 | 83.4 | 80.7 | 75.4 |
| 87.5° | 32.3 | 37.7 | 40.4 | 37.7 | 35.0 | 26.9 | 18.8 | 13.5 | 5.4 | 5.4 | 2.7 |
| 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)