

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: P643419

Luminaire Tested: GWS-SA6E-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20880.7 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

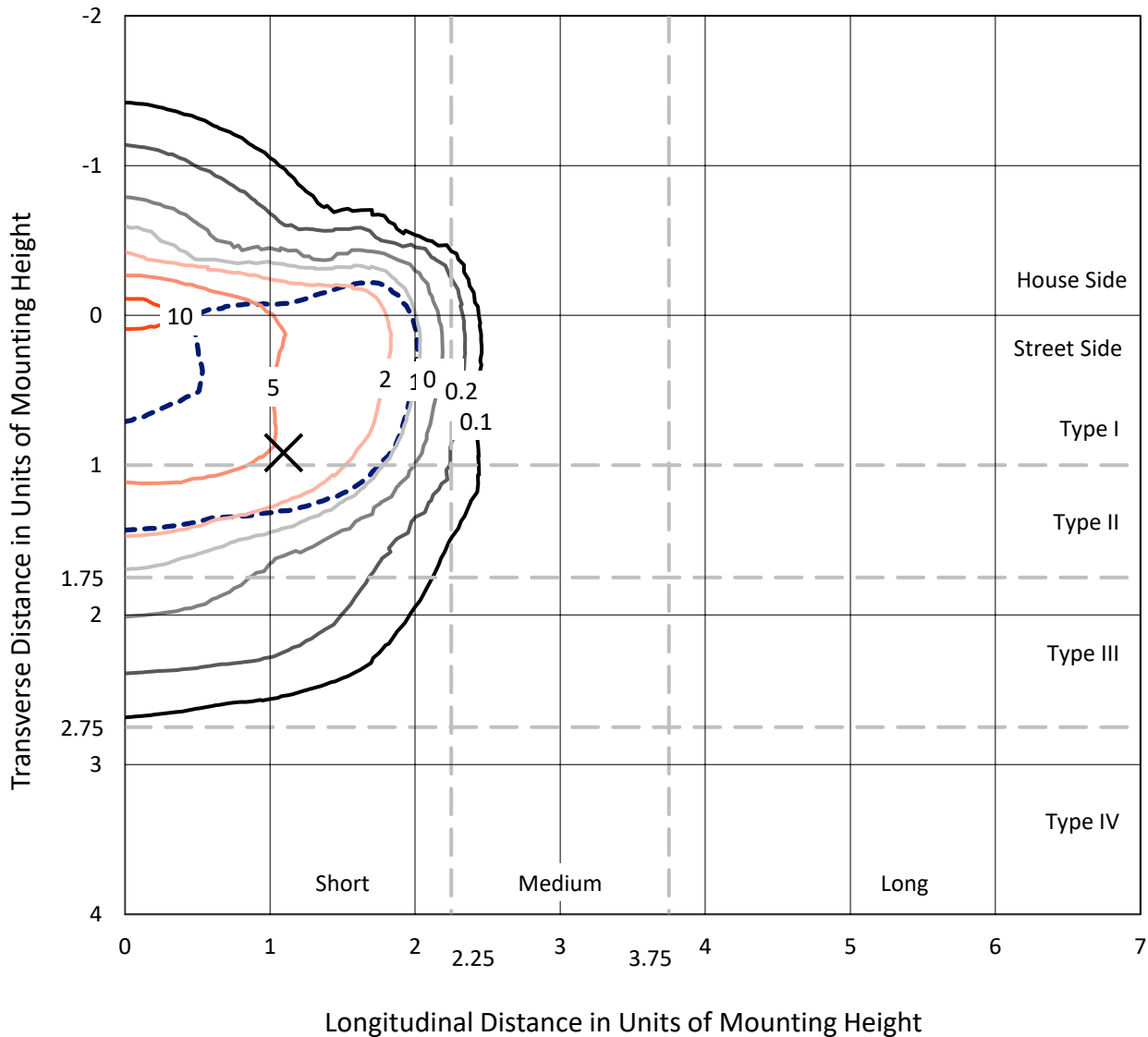
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

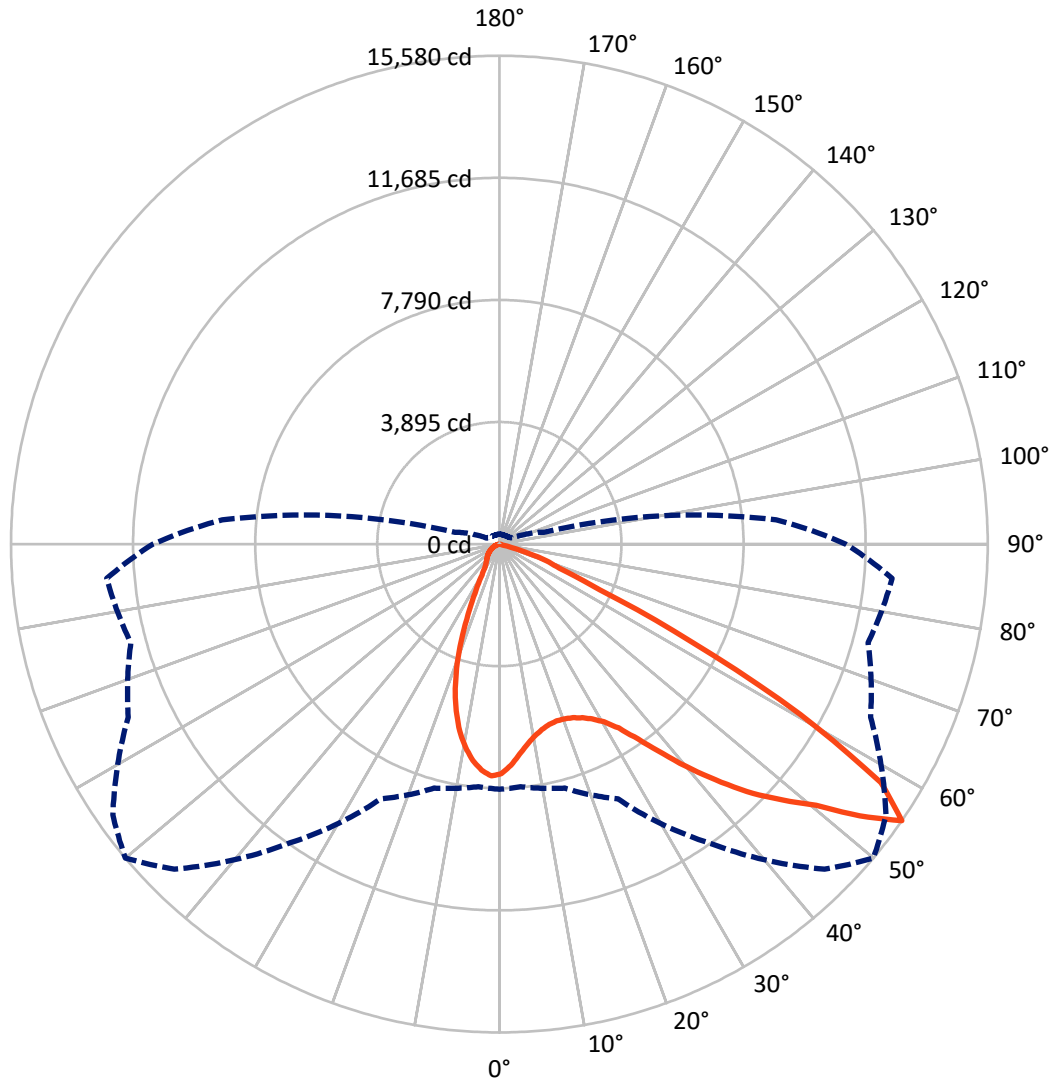
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4114.5 | 0.0 | 4114.5 |
| | % Fixture | 19.7 | 0.0 | 19.7 |
| Street Side | Lumens | 16766.2 | 0.0 | 16766.2 |
| | % Fixture | 80.3 | 0.0 | 80.3 |
| Total | Lumens | 20880.7 | 0.0 | 20880.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 643.4 | 3.1 |
| 10°-20° | 1583.3 | 7.6 |
| 20°-30° | 2233.2 | 10.7 |
| 30°-40° | 3304.8 | 15.8 |
| 40°-50° | 4767.7 | 22.8 |
| 50°-60° | 5623.9 | 26.9 |
| 60°-70° | 2508.7 | 12.0 |
| 70°-80° | 215.7 | 1.0 |
| 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° | 20880.7 | 100.0 |
| 0°-180° | 20880.7 | 100.0 |

Coefficient of Utilization

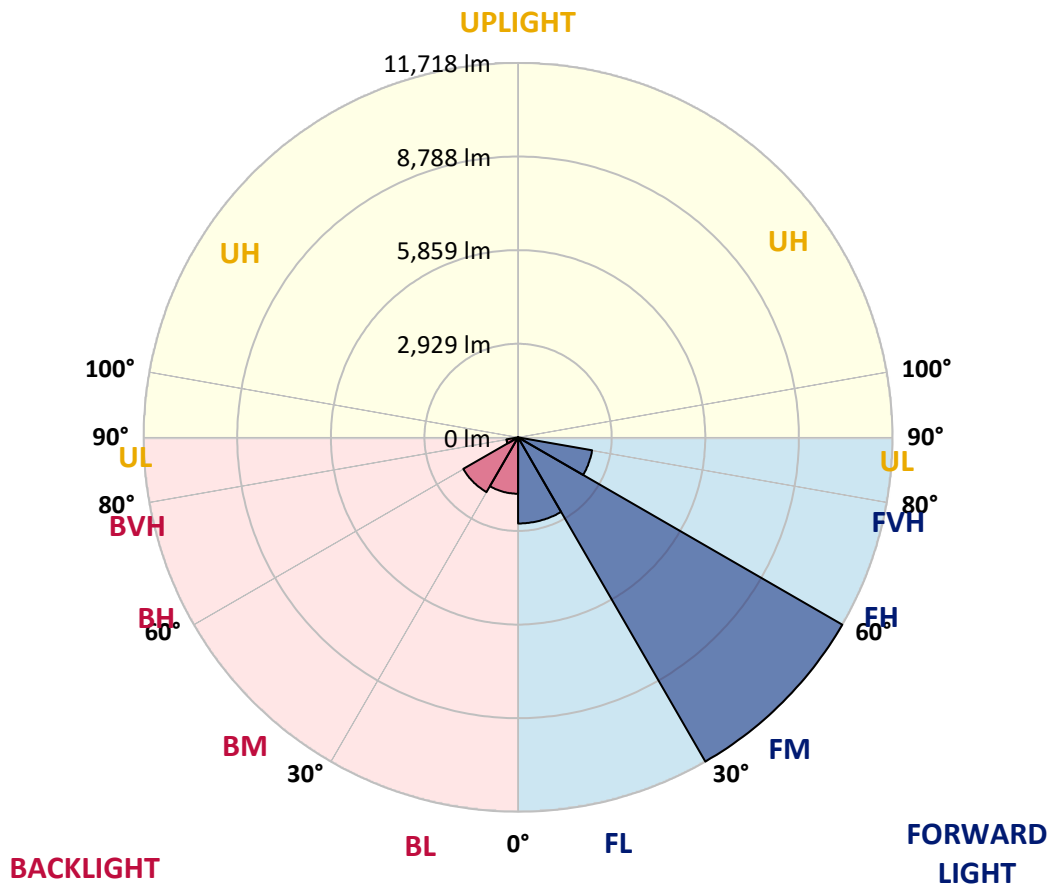


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2695.8 | 12.9 | | | |
| FM (30°-60°) | 11717.6 | 56.1 | | | |
| FH (60°-80°) | 2352.9 | 11.3 | | | G2/5000 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1764.1 | 8.4 | B3/2500 | | |
| BM (30°-60°) | 1978.8 | 9.5 | B2/2500 | | |
| BH (60°-80°) | 371.5 | 1.8 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 |
| 2.5° | 6806.1 | 6811.2 | 6813.7 | 6882.6 | 6908.1 | 7010.0 | 7063.6 | 7091.6 | 7165.5 | 7252.2 | 7323.6 |
| 5° | 6349.8 | 6342.2 | 6354.9 | 6441.6 | 6497.7 | 6648.1 | 6729.6 | 6785.7 | 6948.8 | 7152.8 | 7323.6 |
| 7.5° | 5952.1 | 5967.4 | 5982.7 | 6077.1 | 6161.2 | 6324.3 | 6441.6 | 6525.7 | 6752.6 | 7055.9 | 7344.0 |
| 10° | 5671.7 | 5671.7 | 5694.7 | 5801.7 | 5901.2 | 6102.5 | 6219.8 | 6326.9 | 6597.1 | 6969.2 | 7366.9 |
| 12.5° | 5465.3 | 5467.8 | 5495.9 | 5618.2 | 5732.9 | 5941.9 | 6064.3 | 6168.8 | 6467.1 | 6882.6 | 7372.0 |
| 15° | 5368.4 | 5360.8 | 5383.7 | 5513.7 | 5641.2 | 5837.4 | 5964.9 | 6066.9 | 6375.3 | 6834.1 | 7397.5 |
| 17.5° | 5342.9 | 5337.8 | 5355.7 | 5483.1 | 5613.1 | 5804.3 | 5929.2 | 6031.2 | 6362.6 | 6849.4 | 7474.0 |
| 20° | 5416.8 | 5406.6 | 5399.0 | 5508.6 | 5631.0 | 5819.6 | 5949.6 | 6064.3 | 6423.7 | 6933.5 | 7591.2 |
| 22.5° | 5592.7 | 5592.7 | 5574.9 | 5628.4 | 5710.0 | 5880.8 | 6015.9 | 6166.3 | 6584.3 | 7101.8 | 7764.6 |
| 25° | 5916.5 | 5891.0 | 5857.8 | 5880.8 | 5870.6 | 5977.6 | 6138.2 | 6347.3 | 6887.7 | 7379.6 | 7976.1 |
| 27.5° | 6286.1 | 6309.0 | 6252.9 | 6255.5 | 6166.3 | 6128.0 | 6314.1 | 6630.2 | 7338.9 | 7772.2 | 8289.7 |
| 30° | 6788.3 | 6770.4 | 6773.0 | 6765.3 | 6558.8 | 6377.8 | 6579.2 | 6999.8 | 7907.3 | 8371.2 | 8697.5 |
| 32.5° | 7180.8 | 7206.3 | 7290.4 | 7338.9 | 7068.7 | 6778.1 | 6992.2 | 7502.0 | 8554.8 | 9054.4 | 9197.1 |
| 35° | 7596.3 | 7642.2 | 7813.0 | 7971.0 | 7744.2 | 7410.2 | 7639.6 | 8167.3 | 9164.0 | 9729.9 | 9770.7 |
| 37.5° | 8034.8 | 8126.5 | 8330.5 | 8608.3 | 8572.6 | 8276.9 | 8486.0 | 8949.9 | 9643.2 | 10137.8 | 10244.8 |
| 40° | 8536.9 | 8626.2 | 8960.1 | 9360.3 | 9444.4 | 9378.1 | 9447.0 | 9717.2 | 9959.3 | 10155.6 | 10448.8 |
| 42.5° | 9087.5 | 9209.9 | 9633.0 | 10168.4 | 10484.4 | 10543.1 | 10382.5 | 10354.4 | 10097.0 | 9951.7 | 10405.4 |
| 45° | 9737.6 | 9880.3 | 10359.5 | 11052.9 | 11555.1 | 11634.1 | 11356.2 | 10996.8 | 10183.7 | 9801.3 | 10275.4 |
| 47.5° | 10466.6 | 10601.7 | 11078.4 | 11911.9 | 12658.8 | 12689.4 | 12205.1 | 11626.4 | 10441.1 | 9974.6 | 10374.8 |
| 50° | 10711.3 | 10795.4 | 11208.4 | 12187.2 | 13563.8 | 13798.3 | 13097.3 | 12335.1 | 10958.6 | 10484.4 | 10859.2 |
| 52.5° | 9870.1 | 9903.2 | 10262.7 | 11251.7 | 13380.2 | 14886.7 | 14399.9 | 13393.0 | 11878.8 | 11261.9 | 11606.0 |
| 55° | 7820.6 | 7767.1 | 8057.7 | 8965.2 | 11629.0 | 14665.0 | 15580.1 | 15055.0 | 13064.1 | 12174.5 | 12577.3 |
| 57.5° | 5470.4 | 5406.6 | 5340.4 | 5954.7 | 8677.1 | 12432.0 | 14356.5 | 15286.9 | 14193.4 | 13079.4 | 13624.9 |
| 60° | 4496.6 | 4435.4 | 4114.2 | 3831.3 | 5246.0 | 8926.9 | 11027.4 | 12778.6 | 14101.6 | 13033.5 | 13591.8 |
| 62.5° | 3884.8 | 3849.1 | 3719.1 | 3334.2 | 3087.0 | 5095.6 | 6905.5 | 8582.8 | 10820.9 | 10234.6 | 10265.2 |
| 65° | 3051.3 | 3041.1 | 3130.3 | 3171.1 | 2730.1 | 2819.3 | 3522.9 | 4460.9 | 5850.2 | 5516.3 | 5230.8 |
| 67.5° | 2085.2 | 2062.2 | 2230.5 | 2742.8 | 2625.6 | 2225.4 | 2062.2 | 2080.1 | 2531.3 | 1547.3 | 1228.7 |
| 70° | 1325.5 | 1272.0 | 1274.5 | 1700.2 | 2136.1 | 1756.3 | 1590.6 | 1399.5 | 1259.3 | 229.4 | 260.0 |
| 72.5° | 848.8 | 815.7 | 701.0 | 767.3 | 989.1 | 856.5 | 864.1 | 744.3 | 497.1 | 122.4 | 142.7 |
| 75° | 356.9 | 328.8 | 252.4 | 201.4 | 198.8 | 124.9 | 109.6 | 102.0 | 68.8 | 68.8 | 73.9 |
| 77.5° | 2.5 | 0.0 | 0.0 | 2.5 | 5.1 | 2.5 | 2.5 | 5.1 | 10.2 | 15.3 | 17.8 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 |
| 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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CATALOG NUMBER: GWS-SA6E-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 | 7326.1 |
| 2.5° | 7366.9 | 7305.7 | 7374.5 | 7400.0 | 7397.5 | 7400.0 | 7326.1 | 7275.1 | 7272.6 | 7208.9 | 7178.3 |
| 5° | 7394.9 | 7346.5 | 7397.5 | 7364.3 | 7285.3 | 7185.9 | 7053.4 | 6938.6 | 6887.7 | 6813.7 | 6778.1 |
| 7.5° | 7448.5 | 7397.5 | 7389.8 | 7257.3 | 7061.0 | 6852.0 | 6617.5 | 6408.4 | 6296.3 | 6161.2 | 6168.8 |
| 10° | 7486.7 | 7428.1 | 7328.7 | 7058.5 | 6732.2 | 6398.2 | 6049.0 | 5738.0 | 5541.7 | 5360.8 | 5330.2 |
| 12.5° | 7502.0 | 7415.3 | 7183.4 | 6775.5 | 6316.7 | 5880.8 | 5368.4 | 4924.9 | 4619.0 | 4381.9 | 4348.8 |
| 15° | 7530.0 | 7389.8 | 6997.3 | 6433.9 | 5804.3 | 5187.4 | 4534.8 | 3928.2 | 3522.9 | 3250.1 | 3273.0 |
| 17.5° | 7573.4 | 7361.8 | 6788.3 | 6051.6 | 5253.7 | 4381.9 | 3499.9 | 2804.0 | 2431.8 | 2273.8 | 2276.3 |
| 20° | 7634.6 | 7328.7 | 6558.8 | 5631.0 | 4593.5 | 3471.9 | 2447.1 | 1922.0 | 1817.5 | 1812.4 | 1804.8 |
| 22.5° | 7716.1 | 7295.5 | 6314.1 | 5169.6 | 3810.9 | 2431.8 | 1628.9 | 1465.7 | 1509.1 | 1593.2 | 1608.5 |
| 25° | 7813.0 | 7254.7 | 6041.4 | 4649.6 | 2957.0 | 1595.7 | 1221.0 | 1195.5 | 1300.0 | 1412.2 | 1437.7 |
| 27.5° | 7963.4 | 7234.3 | 5730.4 | 4058.2 | 2075.0 | 1144.5 | 999.2 | 1014.5 | 1108.9 | 1203.2 | 1226.1 |
| 30° | 8218.3 | 7272.6 | 5391.3 | 3395.4 | 1333.2 | 912.6 | 866.7 | 889.6 | 940.6 | 989.1 | 1009.4 |
| 32.5° | 8565.0 | 7384.7 | 5062.5 | 2671.5 | 950.8 | 792.8 | 782.6 | 795.3 | 815.7 | 843.8 | 851.4 |
| 35° | 8970.3 | 7578.5 | 4723.5 | 1911.8 | 785.1 | 723.9 | 713.7 | 713.7 | 723.9 | 729.0 | 731.6 |
| 37.5° | 9304.2 | 7782.4 | 4404.8 | 1272.0 | 703.6 | 670.4 | 655.1 | 647.5 | 644.9 | 650.0 | 652.6 |
| 40° | 9449.5 | 7866.5 | 4058.2 | 925.3 | 644.9 | 622.0 | 599.0 | 576.1 | 576.1 | 593.9 | 596.5 |
| 42.5° | 9347.5 | 7772.2 | 3658.0 | 764.7 | 604.1 | 571.0 | 535.3 | 514.9 | 525.1 | 543.0 | 548.1 |
| 45° | 9130.9 | 7540.2 | 3217.0 | 675.5 | 563.4 | 520.0 | 479.2 | 466.5 | 476.7 | 499.6 | 504.7 |
| 47.5° | 9095.2 | 7387.3 | 2689.3 | 616.9 | 520.0 | 476.7 | 433.3 | 420.6 | 433.3 | 451.2 | 456.3 |
| 50° | 9449.5 | 7519.8 | 2103.0 | 565.9 | 479.2 | 430.8 | 395.1 | 382.4 | 390.0 | 400.2 | 405.3 |
| 52.5° | 10097.0 | 8011.8 | 1697.7 | 517.5 | 430.8 | 384.9 | 362.0 | 346.7 | 346.7 | 356.9 | 359.4 |
| 55° | 11052.9 | 8870.9 | 1465.7 | 461.4 | 374.7 | 349.2 | 328.8 | 313.5 | 313.5 | 318.6 | 321.2 |
| 57.5° | 12154.1 | 9910.9 | 1519.3 | 387.5 | 328.8 | 316.1 | 298.2 | 285.5 | 290.6 | 290.6 | 290.6 |
| 60° | 12001.2 | 9834.4 | 1626.3 | 326.3 | 290.6 | 285.5 | 270.2 | 265.1 | 277.9 | 267.7 | 262.6 |
| 62.5° | 8840.3 | 6793.3 | 851.4 | 267.7 | 249.8 | 244.7 | 234.5 | 244.7 | 262.6 | 234.5 | 224.3 |
| 65° | 4292.7 | 3288.3 | 341.6 | 219.2 | 211.6 | 206.5 | 201.4 | 216.7 | 226.9 | 183.5 | 173.3 |
| 67.5° | 1009.4 | 820.8 | 221.8 | 186.1 | 175.9 | 165.7 | 170.8 | 173.3 | 165.7 | 124.9 | 119.8 |
| 70° | 262.6 | 257.5 | 173.3 | 155.5 | 140.2 | 130.0 | 130.0 | 127.5 | 109.6 | 79.0 | 73.9 |
| 72.5° | 142.7 | 140.2 | 124.9 | 117.3 | 96.9 | 86.7 | 89.2 | 79.0 | 61.2 | 45.9 | 43.3 |
| 75° | 71.4 | 76.5 | 71.4 | 66.3 | 53.5 | 48.4 | 48.4 | 43.3 | 30.6 | 17.8 | 17.8 |
| 77.5° | 15.3 | 17.8 | 17.8 | 15.3 | 12.7 | 10.2 | 10.2 | 12.7 | 5.1 | 0.0 | 0.0 |
| 80° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 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)