

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: P640949

Luminaire Tested: GWS-SA5E-830-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640949
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24974.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

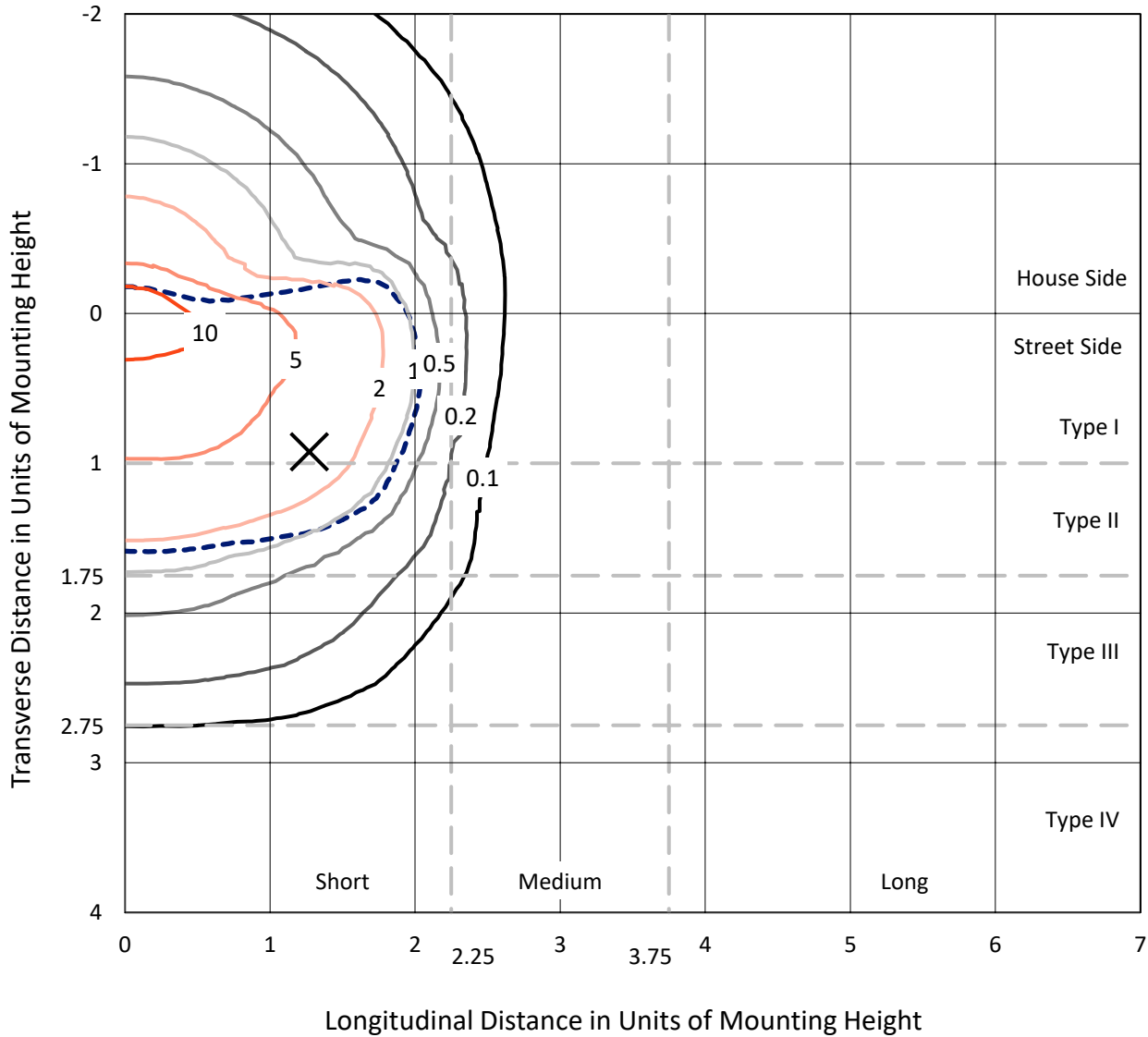
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

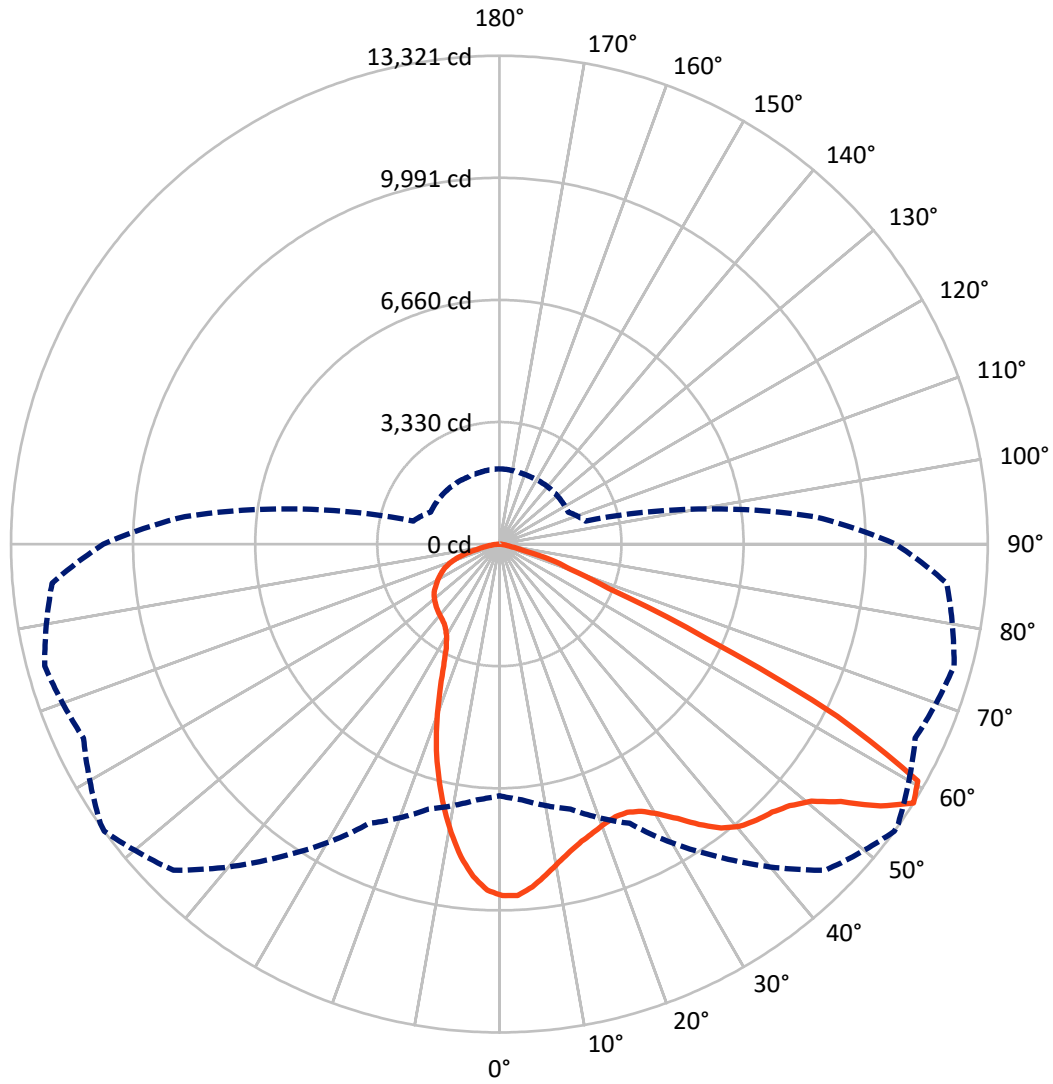
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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 | 7260.3 | 0.0 | 7260.3 |
| | % Fixture | 29.1 | 0.0 | 29.1 |
| Street Side | Lumens | 17714.0 | 0.0 | 17714.0 |
| | % Fixture | 70.9 | 0.0 | 70.9 |
| Total | Lumens | 24974.3 | 0.0 | 24974.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 842.8 | 3.4 |
| 10°-20° | 2011.0 | 8.1 |
| 20°-30° | 2782.9 | 11.1 |
| 30°-40° | 3866.9 | 15.5 |
| 40°-50° | 5107.0 | 20.4 |
| 50°-60° | 6068.9 | 24.3 |
| 60°-70° | 3362.3 | 13.5 |
| 70°-80° | 837.3 | 3.4 |
| 80°-90° | 95.2 | 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° | 24974.3 | 100.0 |
| 0°-180° | 24974.3 | 100.0 |

Coefficient of Utilization



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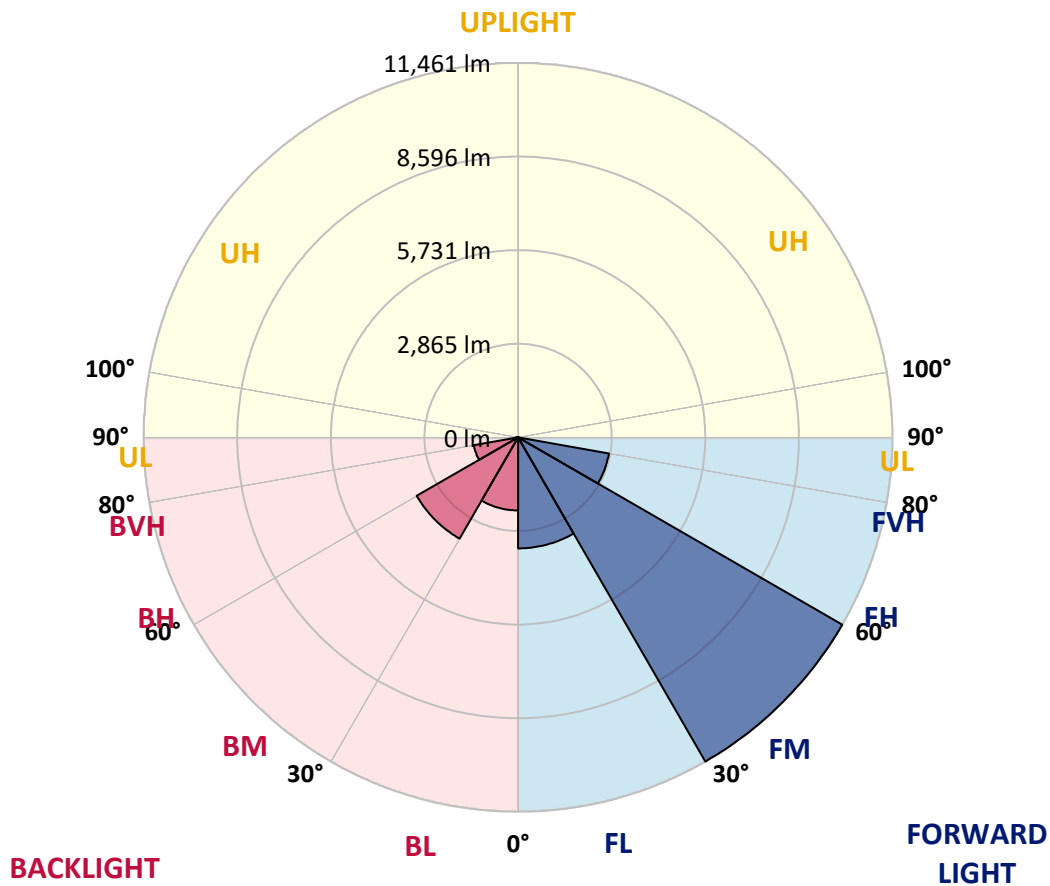
CATALOG NUMBER: GWS-SA5E-830-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3399.4 | 13.6 | | | |
| FM (30°-60°) | 11461.1 | 45.9 | | | |
| FH (60°-80°) | 2823.7 | 11.3 | | | G2/5000 |
| FVH (80°-90°) | 29.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2237.3 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 3581.7 | 14.3 | B3/5000 | | |
| BH (60°-80°) | 1375.9 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 65.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 |
| 2.5° | 9408.6 | 9427.9 | 9440.7 | 9485.6 | 9524.1 | 9558.3 | 9594.6 | 9594.6 | 9592.5 | 9586.1 | 9573.2 |
| 5° | 9036.6 | 9058.0 | 9087.9 | 9149.9 | 9233.3 | 9293.2 | 9391.5 | 9400.1 | 9442.8 | 9459.9 | 9451.4 |
| 7.5° | 8604.8 | 8611.2 | 8649.7 | 8730.9 | 8863.5 | 8970.4 | 9111.5 | 9128.6 | 9231.2 | 9291.0 | 9280.4 |
| 10° | 8132.3 | 8111.0 | 8179.4 | 8299.1 | 8472.2 | 8651.8 | 8833.5 | 8848.5 | 9013.1 | 9126.4 | 9117.9 |
| 12.5° | 7700.5 | 7702.6 | 7771.0 | 7916.4 | 8132.3 | 8354.7 | 8598.4 | 8632.6 | 8835.7 | 8981.1 | 8966.1 |
| 15° | 7339.2 | 7347.7 | 7431.1 | 7595.7 | 7841.6 | 8106.7 | 8410.3 | 8442.3 | 8698.9 | 8891.3 | 8848.5 |
| 17.5° | 7050.6 | 7059.1 | 7131.8 | 7320.0 | 7582.9 | 7903.6 | 8273.4 | 8305.5 | 8624.0 | 8852.8 | 8765.1 |
| 20° | 6851.8 | 6847.5 | 6918.0 | 7097.6 | 7369.1 | 7717.6 | 8153.7 | 8200.7 | 8600.5 | 8867.7 | 8709.5 |
| 22.5° | 6770.5 | 6768.4 | 6819.7 | 6967.2 | 7221.6 | 7574.4 | 8081.0 | 8145.2 | 8626.2 | 8934.0 | 8675.3 |
| 25° | 6811.2 | 6802.6 | 6847.5 | 6956.5 | 7159.6 | 7518.8 | 8102.4 | 8170.8 | 8735.2 | 9070.8 | 8681.8 |
| 27.5° | 6937.3 | 6926.6 | 6965.1 | 7063.4 | 7217.3 | 7576.5 | 8252.1 | 8331.2 | 8966.1 | 9321.0 | 8767.3 |
| 30° | 7129.7 | 7123.3 | 7161.8 | 7255.8 | 7390.5 | 7768.9 | 8538.5 | 8628.3 | 9323.1 | 9710.1 | 8953.3 |
| 32.5° | 7354.2 | 7343.5 | 7411.9 | 7520.9 | 7677.0 | 8119.5 | 8923.3 | 9040.9 | 9746.4 | 10210.3 | 9265.4 |
| 35° | 7606.4 | 7597.9 | 7691.9 | 7850.1 | 8074.6 | 8606.9 | 9389.4 | 9517.7 | 10178.2 | 10776.8 | 9680.1 |
| 37.5° | 7852.3 | 7852.3 | 8034.0 | 8269.2 | 8551.3 | 9137.1 | 9827.6 | 9908.9 | 10477.5 | 11279.2 | 10124.8 |
| 40° | 8070.3 | 8083.2 | 8356.8 | 8709.5 | 9068.7 | 9616.0 | 10116.2 | 10184.7 | 10610.1 | 11625.6 | 10511.7 |
| 42.5° | 8311.9 | 8322.6 | 8641.1 | 9102.9 | 9530.5 | 10002.9 | 10291.5 | 10325.8 | 10635.7 | 11798.7 | 10785.4 |
| 45° | 8504.3 | 8519.3 | 8914.8 | 9408.6 | 9932.4 | 10293.7 | 10430.5 | 10460.4 | 10672.1 | 11892.8 | 10984.2 |
| 47.5° | 8604.8 | 8626.2 | 9079.4 | 9654.5 | 10203.9 | 10554.5 | 10659.3 | 10672.1 | 10821.7 | 12057.4 | 11223.6 |
| 50° | 8587.7 | 8630.4 | 9141.4 | 9776.3 | 10404.9 | 10817.5 | 11027.0 | 11048.3 | 11127.4 | 12299.0 | 11503.7 |
| 52.5° | 8739.5 | 8758.7 | 9273.9 | 9921.7 | 10691.3 | 11302.7 | 11666.2 | 11696.1 | 11659.8 | 12480.7 | 11670.5 |
| 55° | 8487.2 | 8579.1 | 9109.3 | 9900.3 | 11127.4 | 12053.1 | 12613.2 | 12598.3 | 12142.9 | 12683.8 | 11948.4 |
| 57.5° | 6864.6 | 6999.3 | 7484.6 | 8403.8 | 10409.1 | 12579.0 | 13320.9 | 13284.5 | 12517.0 | 12839.9 | 12249.8 |
| 60° | 4752.4 | 4773.8 | 5212.0 | 5864.1 | 8034.0 | 11112.5 | 13113.5 | 13192.6 | 12585.4 | 12643.2 | 11691.8 |
| 62.5° | 3801.1 | 3794.7 | 3835.3 | 3852.4 | 5109.4 | 7811.7 | 10351.4 | 10640.0 | 10456.2 | 9851.2 | 8286.3 |
| 65° | 3245.2 | 3268.8 | 3388.5 | 3326.5 | 3335.0 | 4399.7 | 6184.8 | 6225.4 | 6097.1 | 5879.1 | 4382.6 |
| 67.5° | 2539.8 | 2580.4 | 2792.0 | 3033.6 | 2956.6 | 2832.6 | 3208.9 | 3189.7 | 2514.1 | 1945.4 | 1607.7 |
| 70° | 1590.6 | 1616.2 | 1842.8 | 2381.6 | 2574.0 | 2326.0 | 2063.0 | 2054.5 | 1346.8 | 1107.4 | 1214.3 |
| 72.5° | 927.8 | 932.1 | 996.2 | 1327.6 | 1708.1 | 1590.6 | 1517.9 | 1462.3 | 865.8 | 882.9 | 968.4 |
| 75° | 510.9 | 510.9 | 508.8 | 572.9 | 673.4 | 596.5 | 577.2 | 562.3 | 579.4 | 656.3 | 720.5 |
| 77.5° | 106.9 | 109.0 | 115.4 | 151.8 | 196.7 | 239.4 | 301.4 | 303.6 | 378.4 | 438.3 | 489.6 |
| 80° | 49.2 | 51.3 | 64.1 | 81.2 | 104.8 | 139.0 | 183.9 | 186.0 | 228.7 | 275.8 | 310.0 |
| 82.5° | 25.7 | 27.8 | 34.2 | 42.8 | 55.6 | 72.7 | 102.6 | 102.6 | 136.8 | 162.5 | 183.9 |
| 85° | 8.6 | 8.6 | 12.8 | 17.1 | 23.5 | 29.9 | 40.6 | 40.6 | 59.9 | 79.1 | 91.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.3 | 8.6 | 8.6 | 10.7 | 12.8 | 21.4 |
| 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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CATALOG NUMBER: GWS-SA5E-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 | 9588.2 |
| 2.5° | 9545.4 | 9479.2 | 9481.3 | 9494.1 | 9453.5 | 9391.5 | 9350.9 | 9299.6 | 9267.5 | 9261.1 | 9284.6 |
| 5° | 9408.6 | 9331.7 | 9278.2 | 9222.6 | 9107.2 | 8970.4 | 8863.5 | 8775.8 | 8718.1 | 8696.7 | 8671.1 |
| 7.5° | 9220.5 | 9120.0 | 8985.3 | 8829.3 | 8619.8 | 8376.0 | 8205.0 | 8044.7 | 7933.5 | 7901.4 | 7886.5 |
| 10° | 9032.4 | 8887.0 | 8647.6 | 8356.8 | 8008.3 | 7679.1 | 7369.1 | 7131.8 | 6943.7 | 6836.8 | 6871.0 |
| 12.5° | 8837.8 | 8658.2 | 8284.1 | 7837.3 | 7352.0 | 6856.0 | 6449.9 | 6056.5 | 5752.9 | 5601.1 | 5556.2 |
| 15° | 8666.8 | 8423.1 | 7901.4 | 7296.4 | 6650.8 | 6026.6 | 5438.7 | 4848.6 | 4463.8 | 4254.3 | 4196.6 |
| 17.5° | 8521.4 | 8205.0 | 7497.4 | 6744.9 | 5973.1 | 5083.8 | 4361.2 | 3813.9 | 3550.9 | 3435.5 | 3427.0 |
| 20° | 8378.2 | 7991.2 | 7097.6 | 6150.6 | 5190.7 | 4194.4 | 3548.8 | 3292.3 | 3198.2 | 3157.6 | 3155.4 |
| 22.5° | 8249.9 | 7766.8 | 6676.5 | 5556.2 | 4412.5 | 3525.3 | 3170.4 | 3059.2 | 3033.6 | 3033.6 | 3029.3 |
| 25° | 8140.9 | 7542.3 | 6244.6 | 4925.6 | 3709.1 | 3138.3 | 2973.7 | 2926.7 | 2937.4 | 2956.6 | 2958.8 |
| 27.5° | 8096.0 | 7367.0 | 5827.7 | 4277.8 | 3223.9 | 2913.9 | 2839.0 | 2832.6 | 2862.6 | 2892.5 | 2896.8 |
| 30° | 8143.0 | 7247.3 | 5400.2 | 3657.8 | 2933.1 | 2777.1 | 2742.8 | 2755.7 | 2792.0 | 2821.9 | 2821.9 |
| 32.5° | 8288.4 | 7187.4 | 4964.1 | 3204.6 | 2764.2 | 2680.8 | 2670.2 | 2683.0 | 2710.8 | 2727.9 | 2730.0 |
| 35° | 8534.2 | 7210.9 | 4513.0 | 2898.9 | 2655.2 | 2610.3 | 2608.2 | 2616.7 | 2627.4 | 2638.1 | 2640.2 |
| 37.5° | 8844.2 | 7315.7 | 4029.8 | 2721.5 | 2584.6 | 2559.0 | 2554.7 | 2552.6 | 2554.7 | 2554.7 | 2556.9 |
| 40° | 9147.8 | 7473.9 | 3598.0 | 2616.7 | 2535.5 | 2514.1 | 2503.4 | 2488.4 | 2486.3 | 2482.0 | 2479.9 |
| 42.5° | 9372.3 | 7595.7 | 3253.8 | 2541.9 | 2490.6 | 2464.9 | 2452.1 | 2428.6 | 2426.4 | 2424.3 | 2422.2 |
| 45° | 9541.2 | 7698.4 | 2967.3 | 2469.2 | 2443.5 | 2420.0 | 2392.2 | 2370.9 | 2375.1 | 2379.4 | 2379.4 |
| 47.5° | 9731.4 | 7788.1 | 2757.8 | 2400.8 | 2385.8 | 2362.3 | 2328.1 | 2313.1 | 2328.1 | 2343.1 | 2343.1 |
| 50° | 9962.3 | 7914.3 | 2586.8 | 2332.4 | 2326.0 | 2298.2 | 2268.2 | 2261.8 | 2278.9 | 2300.3 | 2300.3 |
| 52.5° | 10131.2 | 8023.3 | 2464.9 | 2264.0 | 2264.0 | 2227.6 | 2202.0 | 2199.8 | 2219.1 | 2240.5 | 2242.6 |
| 55° | 10447.6 | 8277.7 | 2422.2 | 2184.9 | 2176.3 | 2148.5 | 2129.3 | 2114.3 | 2137.8 | 2157.1 | 2157.1 |
| 57.5° | 10804.6 | 8615.5 | 2432.9 | 2071.6 | 2060.9 | 2052.3 | 2037.4 | 2020.3 | 2026.7 | 2048.0 | 2050.2 |
| 60° | 10047.8 | 7961.3 | 2315.3 | 1958.3 | 1951.8 | 1947.6 | 1928.3 | 1898.4 | 1907.0 | 1924.1 | 1926.2 |
| 62.5° | 7018.5 | 5291.1 | 1872.7 | 1817.2 | 1838.5 | 1836.4 | 1810.7 | 1776.5 | 1778.7 | 1802.2 | 1802.2 |
| 65° | 3642.9 | 2862.6 | 1644.0 | 1688.9 | 1721.0 | 1708.1 | 1665.4 | 1635.4 | 1631.2 | 1661.1 | 1654.7 |
| 67.5° | 1571.3 | 1562.8 | 1496.5 | 1554.2 | 1588.4 | 1560.6 | 1515.7 | 1466.6 | 1470.8 | 1481.5 | 1473.0 |
| 70° | 1265.6 | 1304.1 | 1331.9 | 1393.9 | 1421.7 | 1370.4 | 1321.2 | 1293.4 | 1269.9 | 1267.7 | 1252.8 |
| 72.5° | 1011.2 | 1064.6 | 1126.6 | 1190.8 | 1199.3 | 1148.0 | 1086.0 | 1060.4 | 1024.0 | 1021.9 | 1006.9 |
| 75° | 761.1 | 806.0 | 855.1 | 906.4 | 906.4 | 857.3 | 816.7 | 803.8 | 761.1 | 748.2 | 735.4 |
| 77.5° | 519.5 | 547.3 | 585.8 | 598.6 | 611.4 | 592.2 | 551.6 | 530.2 | 481.0 | 468.2 | 451.1 |
| 80° | 327.1 | 346.3 | 369.8 | 378.4 | 391.2 | 367.7 | 335.6 | 312.1 | 277.9 | 267.2 | 258.7 |
| 82.5° | 196.7 | 209.5 | 224.5 | 228.7 | 239.4 | 222.3 | 192.4 | 175.3 | 156.1 | 147.5 | 141.1 |
| 85° | 100.5 | 106.9 | 115.4 | 117.6 | 115.4 | 98.3 | 87.7 | 79.1 | 66.3 | 64.1 | 59.9 |
| 87.5° | 25.7 | 29.9 | 32.1 | 29.9 | 27.8 | 21.4 | 15.0 | 10.7 | 4.3 | 4.3 | 2.1 |
| 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)