

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: P642453

Luminaire Tested: GWS-SA6C-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19852 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

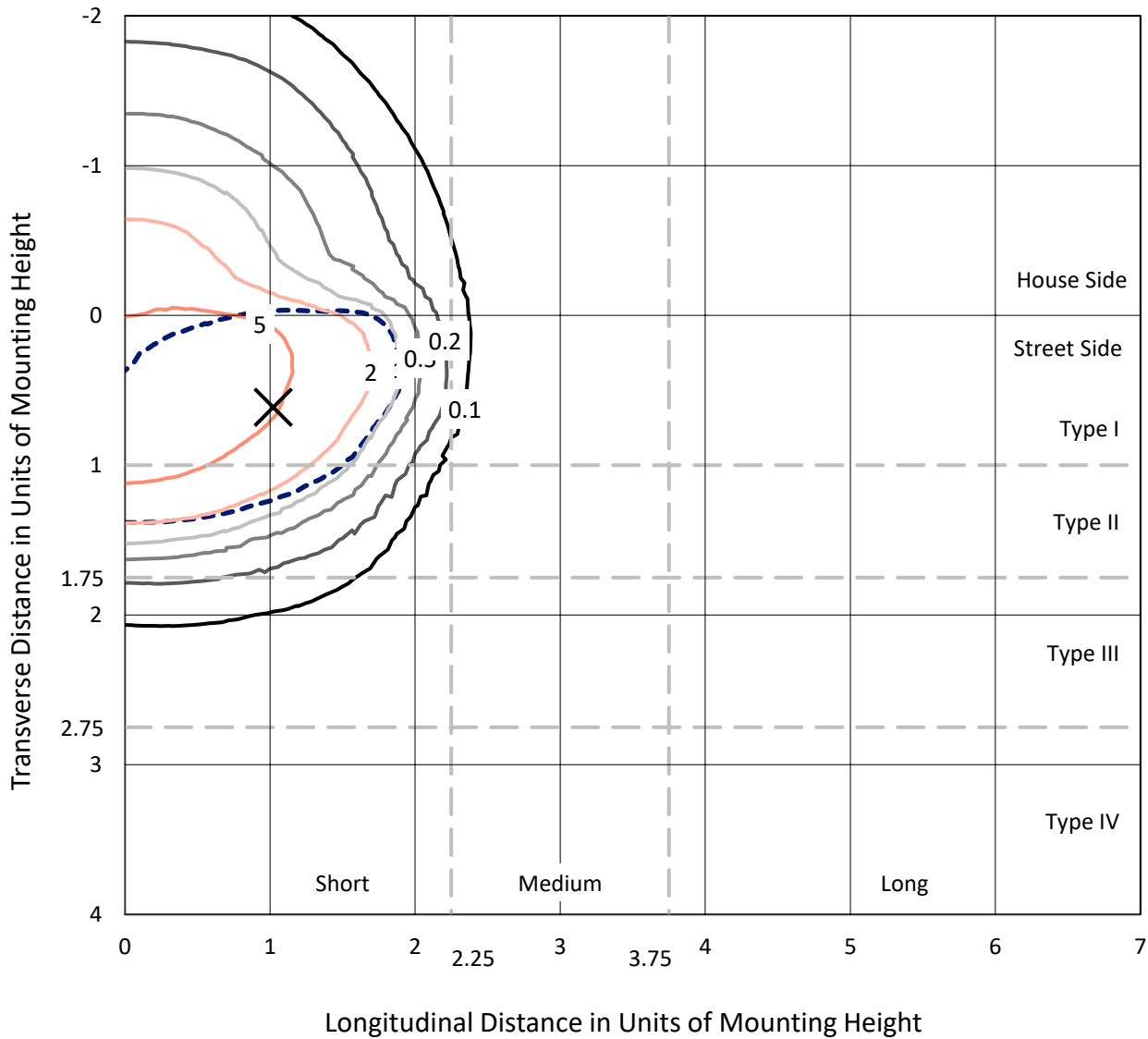
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

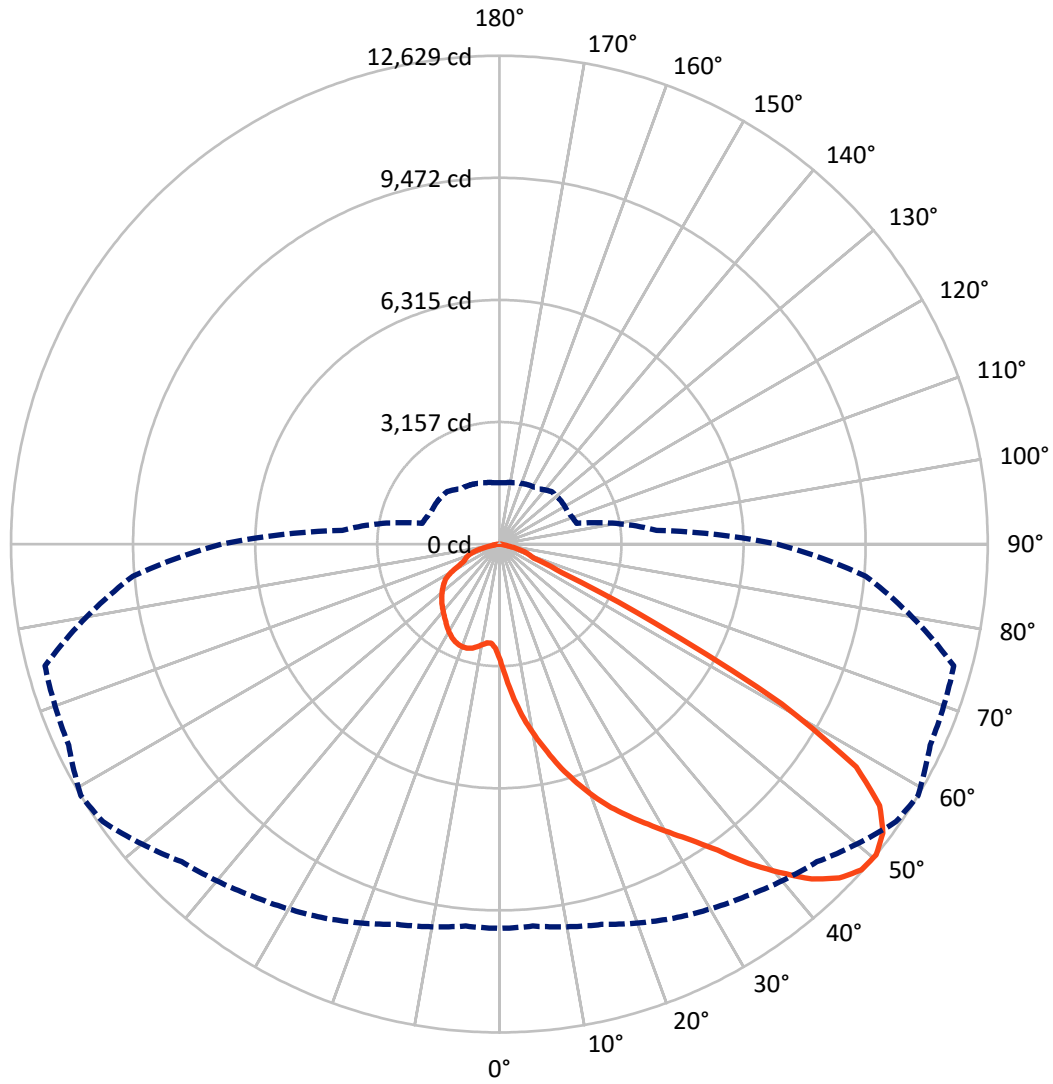
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4566.3 | 0.0 | 4566.3 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 15285.7 | 0.0 | 15285.7 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 19852.0 | 0.0 | 19852.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 337.4 | 1.7 |
| 10°-20° | 1224.9 | 6.2 |
| 20°-30° | 2319.4 | 11.7 |
| 30°-40° | 3846.3 | 19.4 |
| 40°-50° | 5254.3 | 26.5 |
| 50°-60° | 4769.5 | 24.0 |
| 60°-70° | 1588.3 | 8.0 |
| 70°-80° | 463.2 | 2.3 |
| 80°-90° | 48.7 | 0.2 |
| 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° | 19852.0 | 100.0 |
| 0°-180° | 19852.0 | 100.0 |

Coefficient of Utilization



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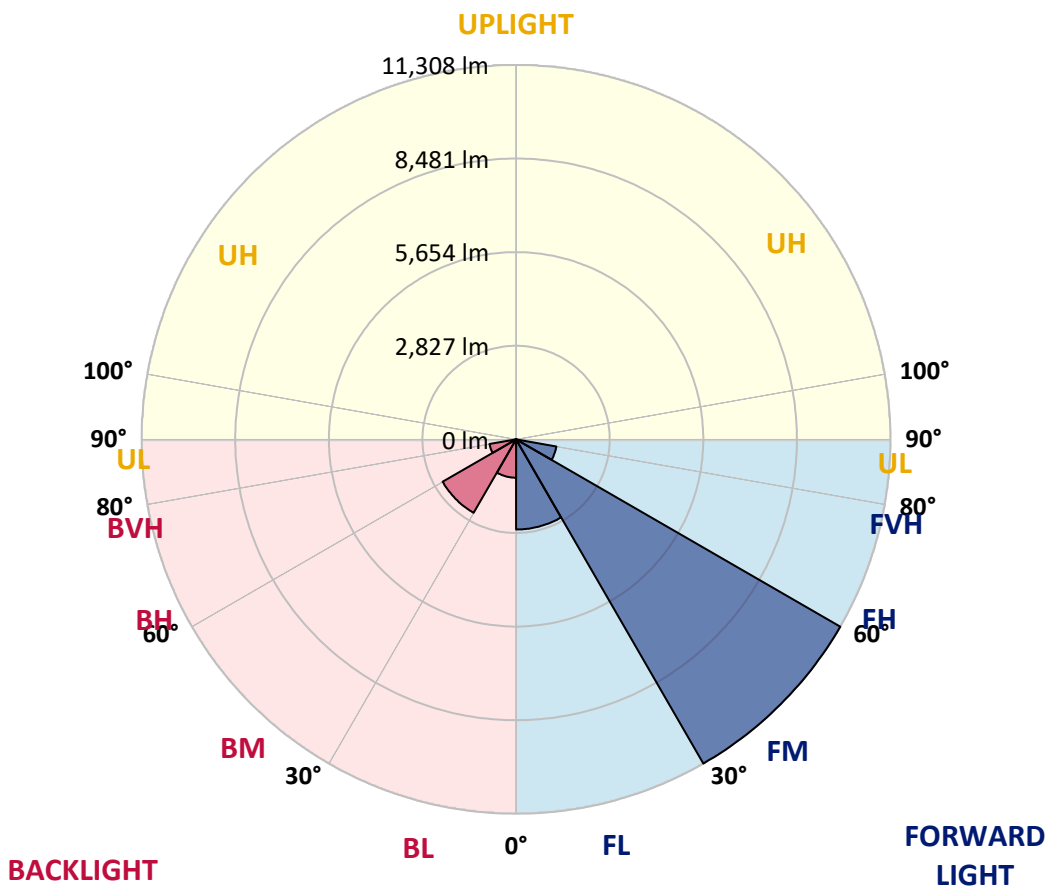
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2722.2 | 13.7 | | | |
| FM (30°-60°) | 11307.9 | 57.0 | | | |
| FH (60°-80°) | 1236.5 | 6.2 | | | G1/1800 |
| FVH (80°-90°) | 19.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1159.5 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 2562.2 | 12.9 | B3/5000 | | |
| BH (60°-80°) | 815.0 | 4.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 29.6 | 0.1 | | | G1/100 |
| 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° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 |
| 2.5° | 3897.1 | 3926.2 | 3880.9 | 3884.2 | 3771.0 | 3719.2 | 3573.7 | 3488.0 | 3431.4 | 3272.9 | 3129.0 |
| 5° | 4683.0 | 4649.0 | 4613.5 | 4592.4 | 4493.8 | 4354.7 | 4173.6 | 4029.7 | 3897.1 | 3586.6 | 3287.5 |
| 7.5° | 5164.9 | 5147.1 | 5122.8 | 5109.9 | 5012.9 | 4867.3 | 4686.2 | 4563.3 | 4370.9 | 3950.5 | 3479.9 |
| 10° | 5574.0 | 5553.0 | 5538.4 | 5548.1 | 5468.9 | 5375.1 | 5177.8 | 5037.1 | 4820.4 | 4335.3 | 3712.8 |
| 12.5° | 5890.9 | 5902.2 | 5907.1 | 5958.8 | 5924.9 | 5868.3 | 5664.5 | 5515.8 | 5274.8 | 4741.2 | 3986.0 |
| 15° | 6141.6 | 6138.3 | 6194.9 | 6293.6 | 6348.5 | 6313.0 | 6149.7 | 6025.1 | 5730.8 | 5140.6 | 4280.3 |
| 17.5° | 6199.8 | 6203.0 | 6292.0 | 6465.0 | 6644.5 | 6731.8 | 6639.6 | 6490.9 | 6199.8 | 5535.2 | 4586.0 |
| 20° | 6246.7 | 6253.1 | 6345.3 | 6542.6 | 6804.6 | 7048.7 | 7063.3 | 6956.6 | 6705.9 | 5962.1 | 4896.4 |
| 22.5° | 6542.6 | 6557.1 | 6581.4 | 6705.9 | 6942.0 | 7250.9 | 7420.7 | 7398.0 | 7187.8 | 6410.0 | 5231.2 |
| 25° | 7320.4 | 7276.7 | 7158.7 | 7123.1 | 7213.7 | 7464.3 | 7753.8 | 7797.4 | 7693.9 | 6903.2 | 5591.8 |
| 27.5° | 8280.9 | 8234.0 | 8059.4 | 7875.0 | 7679.4 | 7766.7 | 8075.6 | 8206.5 | 8208.2 | 7446.5 | 5954.0 |
| 30° | 9152.5 | 9115.3 | 8973.0 | 8709.4 | 8371.5 | 8245.4 | 8473.4 | 8649.6 | 8754.7 | 8073.9 | 6366.3 |
| 32.5° | 9898.0 | 9864.0 | 9671.6 | 9456.5 | 9126.6 | 8872.8 | 8955.2 | 9125.0 | 9370.8 | 8885.7 | 6878.9 |
| 35° | 10525.4 | 10491.4 | 10307.1 | 10090.4 | 9784.8 | 9632.8 | 9603.7 | 9720.1 | 10038.7 | 9733.0 | 7467.6 |
| 37.5° | 11034.8 | 11000.8 | 10808.4 | 10604.6 | 10371.8 | 10381.5 | 10425.1 | 10481.7 | 10664.5 | 10640.2 | 8096.6 |
| 40° | 11364.6 | 11329.1 | 11191.6 | 11046.1 | 10898.9 | 11015.4 | 11232.0 | 11164.1 | 11261.2 | 11372.7 | 8675.5 |
| 42.5° | 11511.8 | 11466.5 | 11387.3 | 11354.9 | 11309.7 | 11490.8 | 11908.0 | 11840.1 | 11723.6 | 11861.1 | 9105.6 |
| 45° | 11364.6 | 11325.8 | 11324.2 | 11422.9 | 11528.0 | 11760.8 | 12375.3 | 12320.3 | 12026.0 | 12097.2 | 9362.7 |
| 47.5° | 10913.5 | 10879.5 | 10971.7 | 11230.4 | 11489.2 | 11828.7 | 12583.9 | 12593.6 | 12241.1 | 12195.8 | 9529.3 |
| 50° | 9938.4 | 9915.8 | 10182.6 | 10672.5 | 11118.9 | 11616.9 | 12517.6 | 12629.2 | 12292.8 | 12165.1 | 9508.3 |
| 52.5° | 7955.9 | 8061.0 | 8641.5 | 9459.8 | 10326.5 | 11245.0 | 12271.8 | 12417.3 | 12043.8 | 11963.0 | 9395.1 |
| 55° | 5446.2 | 5494.7 | 6075.3 | 7270.3 | 8644.8 | 10439.7 | 11707.5 | 11932.2 | 11749.5 | 11929.0 | 9513.1 |
| 57.5° | 2820.1 | 2858.9 | 3316.6 | 4377.4 | 5863.4 | 8250.2 | 10140.5 | 10877.9 | 11156.0 | 12100.4 | 9880.2 |
| 60° | 1157.8 | 1190.2 | 1379.3 | 1892.0 | 2957.6 | 4804.3 | 7297.8 | 8390.9 | 9044.2 | 11050.9 | 8774.1 |
| 62.5° | 840.9 | 857.0 | 947.6 | 1128.7 | 1549.1 | 2354.4 | 4130.0 | 4532.6 | 4991.8 | 6925.8 | 5570.7 |
| 65° | 708.3 | 726.1 | 798.8 | 908.8 | 1130.3 | 1444.0 | 1764.2 | 1773.9 | 1955.0 | 2821.8 | 2065.0 |
| 67.5° | 593.5 | 609.6 | 674.3 | 768.1 | 913.6 | 1025.2 | 947.6 | 949.2 | 946.0 | 1023.6 | 989.6 |
| 70° | 462.5 | 475.4 | 540.1 | 640.4 | 716.4 | 658.1 | 740.6 | 819.8 | 785.9 | 816.6 | 863.5 |
| 72.5° | 338.0 | 352.5 | 409.1 | 485.1 | 465.7 | 468.9 | 599.9 | 680.8 | 661.4 | 695.3 | 739.0 |
| 75° | 244.2 | 253.9 | 283.0 | 242.6 | 255.5 | 308.9 | 422.1 | 465.7 | 485.1 | 514.2 | 553.0 |
| 77.5° | 79.2 | 79.2 | 88.9 | 111.6 | 139.1 | 171.4 | 215.1 | 232.9 | 262.0 | 294.3 | 321.8 |
| 80° | 40.4 | 42.0 | 50.1 | 61.4 | 77.6 | 98.6 | 126.1 | 134.2 | 148.8 | 166.6 | 177.9 |
| 82.5° | 19.4 | 21.0 | 24.3 | 30.7 | 40.4 | 51.7 | 69.5 | 77.6 | 87.3 | 98.6 | 106.7 |
| 85° | 4.9 | 4.9 | 6.5 | 9.7 | 12.9 | 19.4 | 25.9 | 30.7 | 38.8 | 46.9 | 51.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 4.9 | 6.5 | 8.1 | 9.7 | 12.9 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 | 3007.7 |
| 2.5° | 3064.3 | 2973.8 | 2857.3 | 2758.7 | 2668.1 | 2598.6 | 2538.8 | 2509.7 | 2482.2 | 2462.8 | 2469.2 |
| 5° | 3148.4 | 2993.2 | 2776.5 | 2626.1 | 2533.9 | 2487.0 | 2454.7 | 2438.5 | 2435.3 | 2422.3 | 2417.5 |
| 7.5° | 3271.3 | 3049.8 | 2760.3 | 2608.3 | 2546.9 | 2522.6 | 2504.8 | 2495.1 | 2500.0 | 2487.0 | 2482.2 |
| 10° | 3423.3 | 3143.6 | 2800.7 | 2666.5 | 2613.2 | 2595.4 | 2576.0 | 2563.0 | 2556.6 | 2537.2 | 2533.9 |
| 12.5° | 3612.5 | 3260.0 | 2873.5 | 2740.9 | 2687.5 | 2656.8 | 2630.9 | 2608.3 | 2593.8 | 2569.5 | 2563.0 |
| 15° | 3816.2 | 3389.3 | 2959.2 | 2813.7 | 2750.6 | 2705.3 | 2663.3 | 2629.3 | 2603.5 | 2571.1 | 2566.3 |
| 17.5° | 4037.8 | 3525.2 | 3030.4 | 2863.8 | 2782.9 | 2723.1 | 2661.7 | 2611.5 | 2576.0 | 2533.9 | 2529.1 |
| 20° | 4269.0 | 3662.6 | 3083.7 | 2888.1 | 2784.6 | 2703.7 | 2621.2 | 2554.9 | 2509.7 | 2467.6 | 2464.4 |
| 22.5° | 4508.3 | 3788.8 | 3116.1 | 2881.6 | 2758.7 | 2658.4 | 2559.8 | 2485.4 | 2432.0 | 2381.9 | 2378.7 |
| 25° | 4749.3 | 3910.0 | 3124.1 | 2855.7 | 2706.9 | 2590.5 | 2491.9 | 2404.6 | 2344.7 | 2288.1 | 2281.7 |
| 27.5° | 4993.5 | 4011.9 | 3104.7 | 2804.0 | 2637.4 | 2511.3 | 2412.6 | 2326.9 | 2265.5 | 2208.9 | 2199.2 |
| 30° | 5253.8 | 4099.2 | 3062.7 | 2736.1 | 2556.6 | 2427.2 | 2330.2 | 2265.5 | 2207.3 | 2150.7 | 2141.0 |
| 32.5° | 5531.9 | 4175.2 | 3002.9 | 2653.6 | 2462.8 | 2343.1 | 2272.0 | 2213.7 | 2155.5 | 2105.4 | 2095.7 |
| 35° | 5863.4 | 4225.4 | 2913.9 | 2546.9 | 2375.5 | 2281.7 | 2233.2 | 2165.2 | 2094.1 | 2039.1 | 2034.3 |
| 37.5° | 6206.2 | 4264.2 | 2807.2 | 2445.0 | 2299.4 | 2246.1 | 2205.7 | 2113.5 | 2024.6 | 1958.3 | 1950.2 |
| 40° | 6537.7 | 4296.5 | 2674.6 | 2349.6 | 2229.9 | 2220.2 | 2165.2 | 2050.4 | 1896.8 | 1822.4 | 1816.0 |
| 42.5° | 6846.6 | 4306.2 | 2535.5 | 2247.7 | 2166.9 | 2162.0 | 2100.6 | 1922.7 | 1804.6 | 1757.7 | 1751.3 |
| 45° | 7058.4 | 4298.1 | 2391.6 | 2152.3 | 2103.8 | 2077.9 | 2013.2 | 1830.5 | 1757.7 | 1715.7 | 1707.6 |
| 47.5° | 7215.3 | 4256.1 | 2229.9 | 2052.0 | 2032.6 | 1997.1 | 1858.0 | 1772.3 | 1704.4 | 1662.3 | 1654.2 |
| 50° | 7187.8 | 4081.4 | 2066.6 | 1955.0 | 1946.9 | 1916.2 | 1744.8 | 1699.5 | 1639.7 | 1594.4 | 1587.9 |
| 52.5° | 7045.5 | 3749.9 | 1900.0 | 1848.3 | 1864.5 | 1804.6 | 1663.9 | 1612.2 | 1560.5 | 1508.7 | 1497.4 |
| 55° | 7081.1 | 3510.6 | 1773.9 | 1744.8 | 1773.9 | 1638.1 | 1573.4 | 1518.4 | 1469.9 | 1419.8 | 1410.1 |
| 57.5° | 7236.3 | 3274.5 | 1639.7 | 1633.2 | 1663.9 | 1510.3 | 1457.0 | 1387.4 | 1317.9 | 1277.5 | 1277.5 |
| 60° | 6076.9 | 2386.8 | 1403.6 | 1419.8 | 1489.3 | 1406.8 | 1359.9 | 1288.8 | 1212.8 | 1177.2 | 1177.2 |
| 62.5° | 3593.1 | 1497.4 | 1164.3 | 1146.5 | 1190.2 | 1241.9 | 1267.8 | 1209.6 | 1119.0 | 1072.1 | 1073.7 |
| 65° | 1583.1 | 1089.9 | 1026.8 | 1012.3 | 999.3 | 1034.9 | 1106.1 | 1110.9 | 1015.5 | 960.5 | 962.1 |
| 67.5° | 975.1 | 986.4 | 960.5 | 949.2 | 937.9 | 931.4 | 925.0 | 928.2 | 902.3 | 852.2 | 850.6 |
| 70° | 879.7 | 910.4 | 892.6 | 882.9 | 868.4 | 857.0 | 818.2 | 755.2 | 711.5 | 698.6 | 713.1 |
| 72.5° | 756.8 | 798.8 | 789.1 | 784.3 | 766.5 | 739.0 | 687.2 | 625.8 | 574.1 | 541.7 | 548.2 |
| 75° | 570.8 | 604.8 | 609.6 | 611.2 | 591.8 | 566.0 | 512.6 | 460.9 | 415.6 | 381.6 | 389.7 |
| 77.5° | 328.3 | 347.7 | 352.5 | 357.4 | 342.8 | 333.1 | 297.5 | 260.3 | 236.1 | 200.5 | 210.2 |
| 80° | 182.7 | 190.8 | 190.8 | 192.4 | 184.3 | 173.0 | 148.8 | 127.7 | 116.4 | 100.3 | 101.9 |
| 82.5° | 110.0 | 113.2 | 114.8 | 116.4 | 111.6 | 100.3 | 82.5 | 67.9 | 61.4 | 53.4 | 51.7 |
| 85° | 53.4 | 56.6 | 56.6 | 58.2 | 50.1 | 43.7 | 34.0 | 25.9 | 22.6 | 16.2 | 17.8 |
| 87.5° | 12.9 | 14.6 | 14.6 | 12.9 | 11.3 | 8.1 | 4.9 | 1.6 | 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)