

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: P636844

Luminaire Tested: GWS-SA4B-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11940.7 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

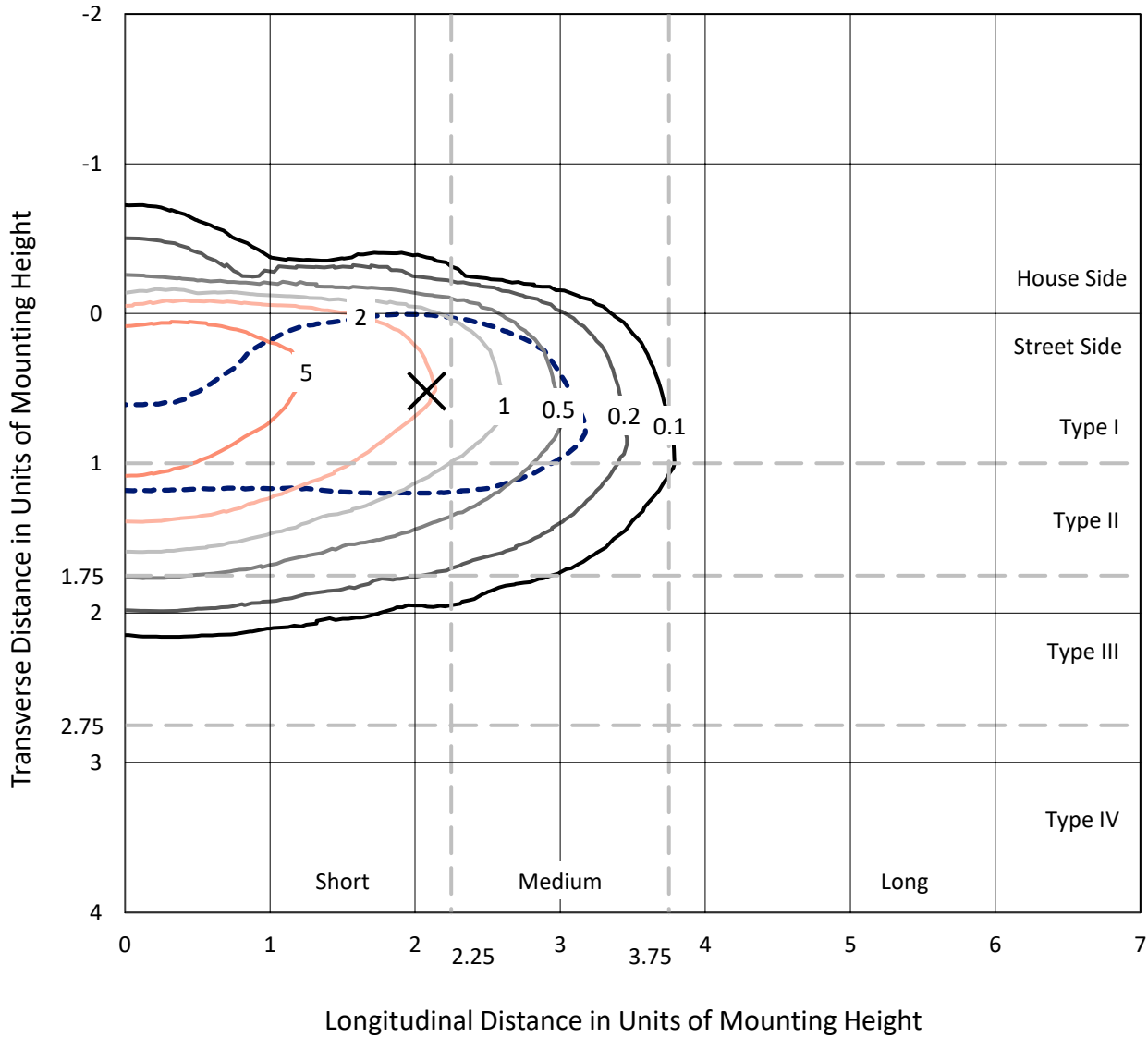
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

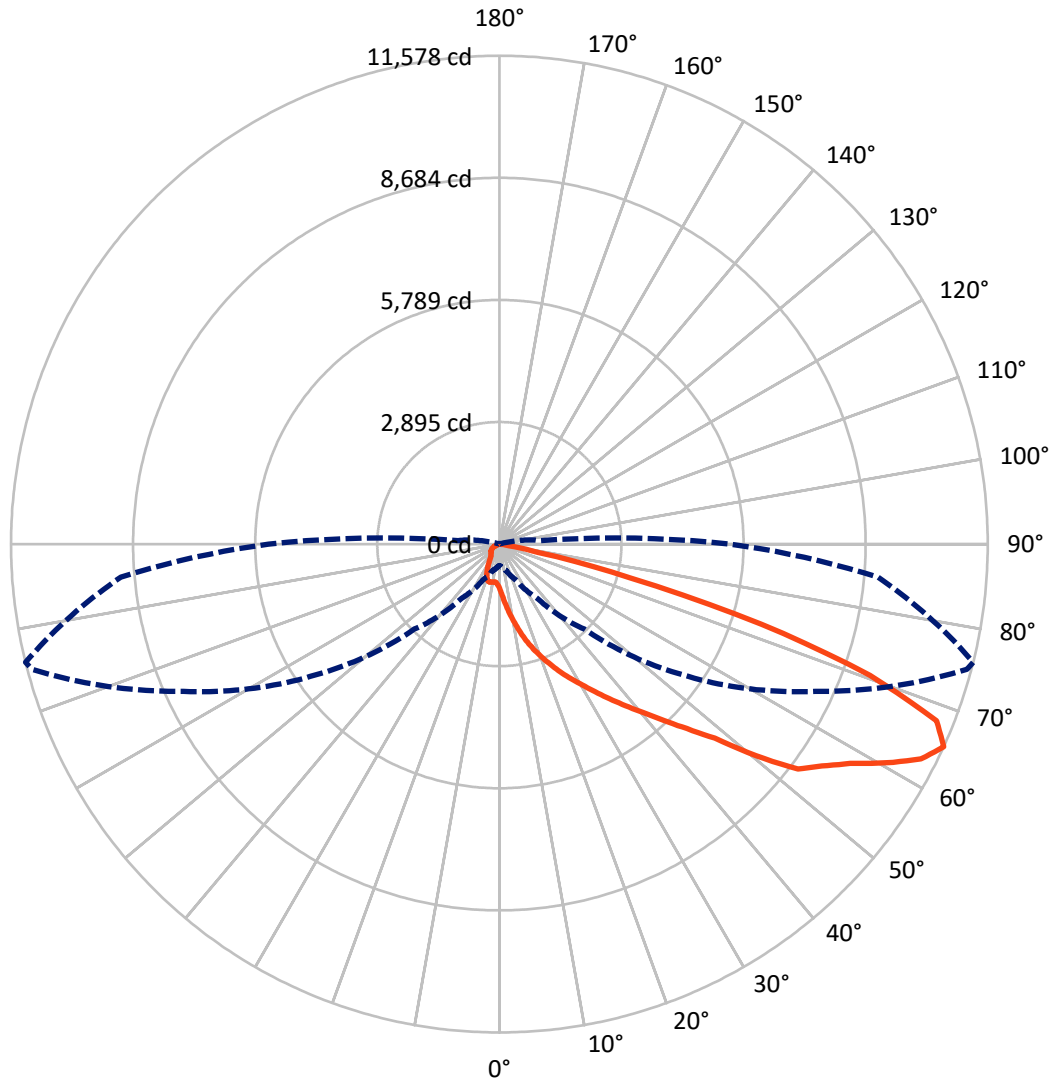
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 660.3 | 0.0 | 660.3 |
| | % Fixture | 5.5 | 0.0 | 5.5 |
| Street Side | Lumens | 11280.5 | 0.0 | 11280.5 |
| | % Fixture | 94.5 | 0.0 | 94.5 |
| Total | Lumens | 11940.7 | 0.0 | 11940.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 128.6 | 1.1 |
| 10°-20° | 488.0 | 4.1 |
| 20°-30° | 995.6 | 8.3 |
| 30°-40° | 1770.8 | 14.8 |
| 40°-50° | 2617.6 | 21.9 |
| 50°-60° | 2996.9 | 25.1 |
| 60°-70° | 2286.5 | 19.1 |
| 70°-80° | 640.5 | 5.4 |
| 80°-90° | 16.1 | 0.1 |
| 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° | 11940.7 | 100.0 |
| 0°-180° | 11940.7 | 100.0 |

Coefficient of Utilization



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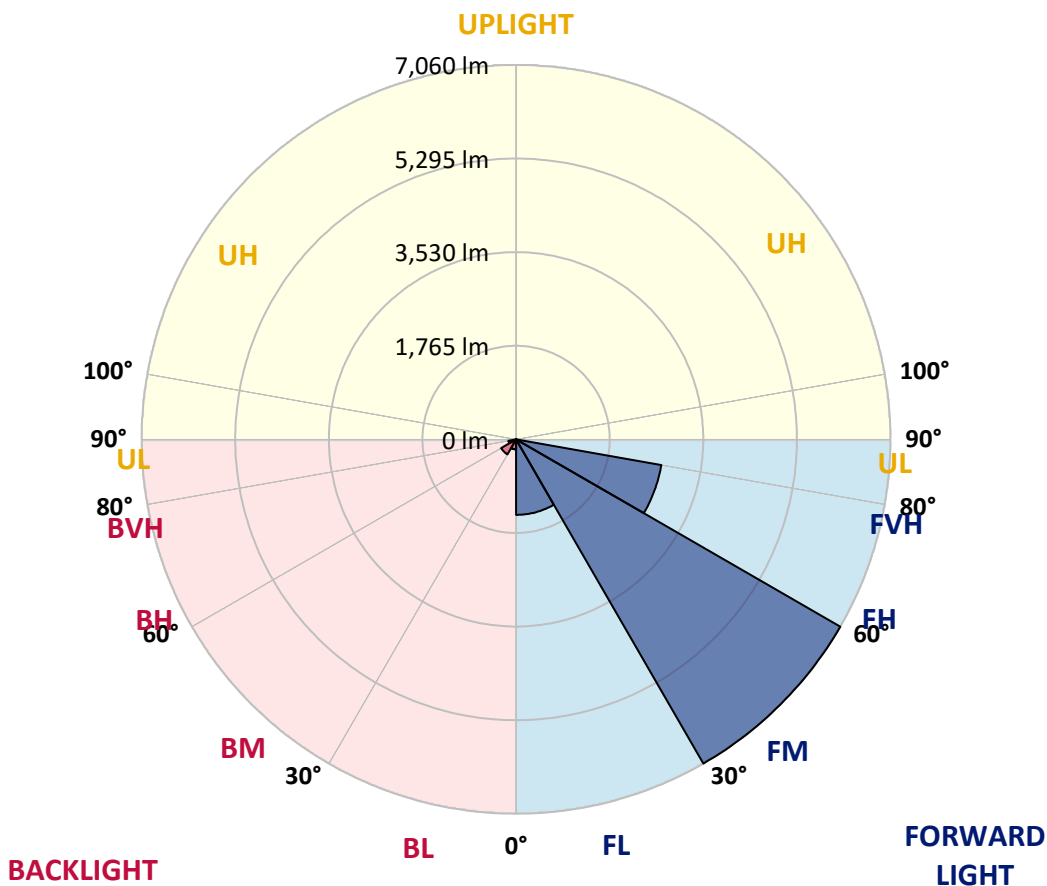
CATALOG NUMBER: GWS-SA4B-750-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1423.8 | 11.9 | | | |
| FM (30°-60°) | 7059.5 | 59.1 | | | |
| FH (60°-80°) | 2781.9 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 15.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 188.4 | 1.6 | B1/500 | | |
| BM (30°-60°) | 325.8 | 2.7 | B1/1000 | | |
| BH (60°-80°) | 145.2 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 |
| 2.5° | 1629.3 | 1653.7 | 1634.6 | 1602.8 | 1541.2 | 1481.8 | 1405.3 | 1300.3 | 1216.4 | 1205.8 | 1127.2 |
| 5° | 2200.4 | 2198.2 | 2156.8 | 2115.4 | 2050.7 | 1948.8 | 1794.9 | 1599.6 | 1411.7 | 1395.8 | 1219.6 |
| 7.5° | 2540.0 | 2543.2 | 2519.8 | 2488.0 | 2424.3 | 2319.2 | 2159.0 | 1923.3 | 1648.4 | 1616.6 | 1345.9 |
| 10° | 2825.5 | 2824.5 | 2807.5 | 2792.6 | 2735.3 | 2665.3 | 2493.3 | 2234.3 | 1903.1 | 1853.3 | 1487.1 |
| 12.5° | 3039.9 | 3047.4 | 3055.9 | 3070.7 | 3046.3 | 2977.3 | 2814.9 | 2532.6 | 2161.1 | 2105.9 | 1648.4 |
| 15° | 3209.8 | 3211.9 | 3243.7 | 3301.1 | 3321.2 | 3285.1 | 3137.6 | 2821.3 | 2415.8 | 2368.1 | 1834.2 |
| 17.5° | 3260.7 | 3265.0 | 3319.1 | 3424.2 | 3530.3 | 3550.5 | 3439.0 | 3112.1 | 2666.3 | 2615.4 | 2014.6 |
| 20° | 3367.9 | 3377.5 | 3417.8 | 3510.2 | 3643.9 | 3752.2 | 3708.6 | 3406.1 | 2916.8 | 2849.9 | 2199.3 |
| 22.5° | 3705.5 | 3710.8 | 3697.0 | 3708.6 | 3777.6 | 3902.9 | 3929.4 | 3690.6 | 3173.7 | 3102.6 | 2398.8 |
| 25° | 4286.1 | 4288.2 | 4191.6 | 4100.3 | 4048.3 | 4071.7 | 4130.0 | 3952.8 | 3428.4 | 3358.4 | 2584.6 |
| 27.5° | 4889.0 | 4896.4 | 4780.7 | 4625.7 | 4440.0 | 4333.8 | 4316.8 | 4192.7 | 3685.3 | 3607.8 | 2768.2 |
| 30° | 5456.8 | 5456.8 | 5334.8 | 5145.8 | 4897.5 | 4690.5 | 4568.4 | 4434.7 | 3960.2 | 3875.3 | 2956.1 |
| 32.5° | 5967.4 | 5963.1 | 5807.1 | 5602.2 | 5357.1 | 5129.9 | 4873.0 | 4687.3 | 4265.9 | 4171.4 | 3172.6 |
| 35° | 6388.8 | 6378.2 | 6200.9 | 6004.5 | 5742.4 | 5573.6 | 5287.0 | 4959.0 | 4597.1 | 4502.6 | 3395.5 |
| 37.5° | 6707.2 | 6695.5 | 6533.1 | 6325.1 | 6082.0 | 5972.7 | 5732.8 | 5284.9 | 4946.3 | 4860.3 | 3642.8 |
| 40° | 6880.2 | 6856.9 | 6744.3 | 6589.4 | 6385.6 | 6290.1 | 6190.3 | 5689.3 | 5357.1 | 5249.8 | 3934.7 |
| 42.5° | 6931.2 | 6903.6 | 6829.3 | 6757.1 | 6634.0 | 6558.6 | 6665.8 | 6145.7 | 5808.2 | 5715.8 | 4268.0 |
| 45° | 6780.4 | 6764.5 | 6758.1 | 6810.2 | 6832.4 | 6853.7 | 7118.0 | 6650.9 | 6306.0 | 6235.9 | 4687.3 |
| 47.5° | 6417.4 | 6413.2 | 6469.4 | 6686.0 | 6921.6 | 7145.6 | 7609.4 | 7274.0 | 6951.3 | 6876.0 | 5273.2 |
| 50° | 5746.6 | 5790.1 | 5947.2 | 6327.2 | 6798.5 | 7311.2 | 8069.0 | 8138.0 | 7995.8 | 7885.4 | 6037.4 |
| 52.5° | 4697.9 | 4781.8 | 5134.2 | 5711.6 | 6388.8 | 7264.4 | 8281.3 | 8830.1 | 8975.5 | 8860.8 | 6585.1 |
| 55° | 3686.4 | 3764.9 | 4079.1 | 4811.5 | 5714.8 | 6908.9 | 8290.9 | 9068.9 | 9386.3 | 9280.1 | 6955.6 |
| 57.5° | 2745.9 | 2818.1 | 3103.6 | 3804.2 | 4797.7 | 6209.4 | 8063.7 | 9201.6 | 9873.5 | 9805.5 | 7540.4 |
| 60° | 1794.9 | 1866.0 | 2123.9 | 2736.4 | 3721.4 | 5190.4 | 7504.3 | 9174.0 | 10536.8 | 10530.5 | 8259.0 |
| 62.5° | 995.6 | 1051.9 | 1238.7 | 1716.3 | 2597.3 | 4019.6 | 6625.5 | 8896.9 | 11179.0 | 11219.3 | 8851.3 |
| 65° | 509.5 | 545.6 | 659.2 | 943.6 | 1572.0 | 2849.9 | 5469.6 | 8262.2 | 11476.2 | 11578.1 | 9007.3 |
| 67.5° | 333.3 | 345.0 | 372.6 | 490.4 | 841.7 | 1792.8 | 4116.2 | 7244.3 | 11058.0 | 11176.9 | 8484.0 |
| 70° | 270.7 | 280.2 | 296.1 | 326.9 | 434.1 | 952.1 | 2703.5 | 5785.9 | 9239.8 | 9320.4 | 6756.0 |
| 72.5° | 198.5 | 211.2 | 242.0 | 262.2 | 313.1 | 522.2 | 1406.4 | 3797.8 | 6345.2 | 6487.5 | 4245.7 |
| 75° | 146.5 | 153.9 | 179.4 | 207.0 | 255.8 | 330.1 | 538.1 | 1996.6 | 3276.6 | 3193.9 | 1783.2 |
| 77.5° | 88.1 | 93.4 | 114.6 | 132.7 | 182.6 | 205.9 | 187.9 | 737.7 | 996.7 | 937.2 | 430.9 |
| 80° | 43.5 | 48.8 | 75.4 | 99.8 | 116.8 | 82.8 | 78.5 | 205.9 | 221.8 | 221.8 | 108.3 |
| 82.5° | 14.9 | 19.1 | 40.3 | 65.8 | 57.3 | 31.8 | 37.2 | 53.1 | 59.4 | 62.6 | 31.8 |
| 85° | 0.0 | 0.0 | 9.6 | 19.1 | 8.5 | 4.2 | 9.6 | 11.7 | 14.9 | 15.9 | 10.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 3.2 | 4.2 | 4.2 |
| 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-SA4B-750-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 |
| 2.5° | 1084.8 | 1034.9 | 959.5 | 891.6 | 839.6 | 790.8 | 753.6 | 723.9 | 718.6 | 701.6 | 703.7 |
| 5° | 1133.6 | 1043.4 | 904.3 | 797.1 | 721.8 | 670.8 | 628.4 | 596.5 | 582.7 | 568.9 | 558.3 |
| 7.5° | 1209.0 | 1078.4 | 883.1 | 752.6 | 664.5 | 585.9 | 520.1 | 467.0 | 441.6 | 425.6 | 415.0 |
| 10° | 1301.3 | 1127.2 | 884.2 | 726.0 | 595.5 | 475.5 | 385.3 | 326.9 | 299.3 | 290.8 | 289.8 |
| 12.5° | 1411.7 | 1188.8 | 892.7 | 682.5 | 495.7 | 353.5 | 285.5 | 259.0 | 250.5 | 243.1 | 243.1 |
| 15° | 1528.5 | 1257.8 | 892.7 | 602.9 | 377.9 | 276.0 | 247.3 | 230.3 | 219.7 | 215.5 | 213.3 |
| 17.5° | 1651.6 | 1322.5 | 871.4 | 493.6 | 289.8 | 243.1 | 219.7 | 203.8 | 195.3 | 188.9 | 186.8 |
| 20° | 1783.2 | 1384.1 | 818.4 | 377.9 | 248.4 | 217.6 | 195.3 | 179.4 | 170.9 | 164.5 | 164.5 |
| 22.5° | 1916.9 | 1441.4 | 732.4 | 290.8 | 219.7 | 193.2 | 172.0 | 157.1 | 148.6 | 142.2 | 142.2 |
| 25° | 2041.1 | 1479.6 | 622.0 | 239.9 | 198.5 | 172.0 | 152.8 | 138.0 | 128.4 | 124.2 | 122.1 |
| 27.5° | 2156.8 | 1504.1 | 499.9 | 211.2 | 178.3 | 153.9 | 133.7 | 119.9 | 112.5 | 109.3 | 107.2 |
| 30° | 2276.8 | 1510.4 | 382.1 | 192.1 | 161.3 | 135.9 | 116.8 | 106.1 | 99.8 | 95.5 | 95.5 |
| 32.5° | 2393.5 | 1503.0 | 291.9 | 176.2 | 146.5 | 119.9 | 104.0 | 94.5 | 89.2 | 86.0 | 84.9 |
| 35° | 2512.4 | 1469.0 | 236.7 | 162.4 | 131.6 | 105.1 | 92.3 | 84.9 | 81.7 | 77.5 | 77.5 |
| 37.5° | 2641.9 | 1423.4 | 205.9 | 148.6 | 116.8 | 94.5 | 82.8 | 77.5 | 73.2 | 70.1 | 69.0 |
| 40° | 2803.2 | 1370.3 | 188.9 | 136.9 | 103.0 | 84.9 | 74.3 | 69.0 | 65.8 | 62.6 | 61.6 |
| 42.5° | 2994.3 | 1318.3 | 180.4 | 124.2 | 92.3 | 75.4 | 66.9 | 60.5 | 57.3 | 53.1 | 52.0 |
| 45° | 3265.0 | 1306.6 | 170.9 | 110.4 | 82.8 | 67.9 | 58.4 | 52.0 | 47.8 | 44.6 | 43.5 |
| 47.5° | 3700.2 | 1339.5 | 155.0 | 95.5 | 73.2 | 59.4 | 49.9 | 44.6 | 39.3 | 36.1 | 34.0 |
| 50° | 4132.2 | 1331.0 | 139.0 | 82.8 | 64.7 | 50.9 | 42.5 | 37.2 | 31.8 | 28.7 | 27.6 |
| 52.5° | 4367.8 | 1290.7 | 124.2 | 73.2 | 56.3 | 43.5 | 36.1 | 29.7 | 26.5 | 23.4 | 22.3 |
| 55° | 4581.1 | 1274.8 | 109.3 | 63.7 | 47.8 | 38.2 | 29.7 | 24.4 | 22.3 | 19.1 | 18.0 |
| 57.5° | 4999.4 | 1311.9 | 96.6 | 55.2 | 41.4 | 32.9 | 25.5 | 20.2 | 18.0 | 14.9 | 13.8 |
| 60° | 5436.7 | 1316.2 | 82.8 | 47.8 | 36.1 | 27.6 | 20.2 | 15.9 | 13.8 | 10.6 | 9.6 |
| 62.5° | 5664.9 | 1209.0 | 67.9 | 40.3 | 29.7 | 23.4 | 17.0 | 12.7 | 10.6 | 6.4 | 6.4 |
| 65° | 5473.8 | 977.6 | 57.3 | 32.9 | 23.4 | 18.0 | 12.7 | 9.6 | 6.4 | 3.2 | 1.1 |
| 67.5° | 4844.4 | 695.2 | 47.8 | 26.5 | 17.0 | 12.7 | 9.6 | 6.4 | 1.1 | 0.0 | 0.0 |
| 70° | 3547.3 | 397.0 | 37.2 | 19.1 | 12.7 | 8.5 | 6.4 | 3.2 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2180.2 | 212.3 | 27.6 | 12.7 | 9.6 | 6.4 | 5.3 | 2.1 | 0.0 | 0.0 | 0.0 |
| 75° | 826.9 | 101.9 | 17.0 | 8.5 | 7.4 | 5.3 | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 77.5° | 224.0 | 49.9 | 9.6 | 6.4 | 5.3 | 3.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 58.4 | 23.4 | 6.4 | 4.2 | 3.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 20.2 | 10.6 | 3.2 | 3.2 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.5 | 4.2 | 2.1 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.2 | 1.1 | 1.1 | 1.1 | 1.1 | 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)