

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: P637728

Luminaire Tested: GWS-SA4D-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17732.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

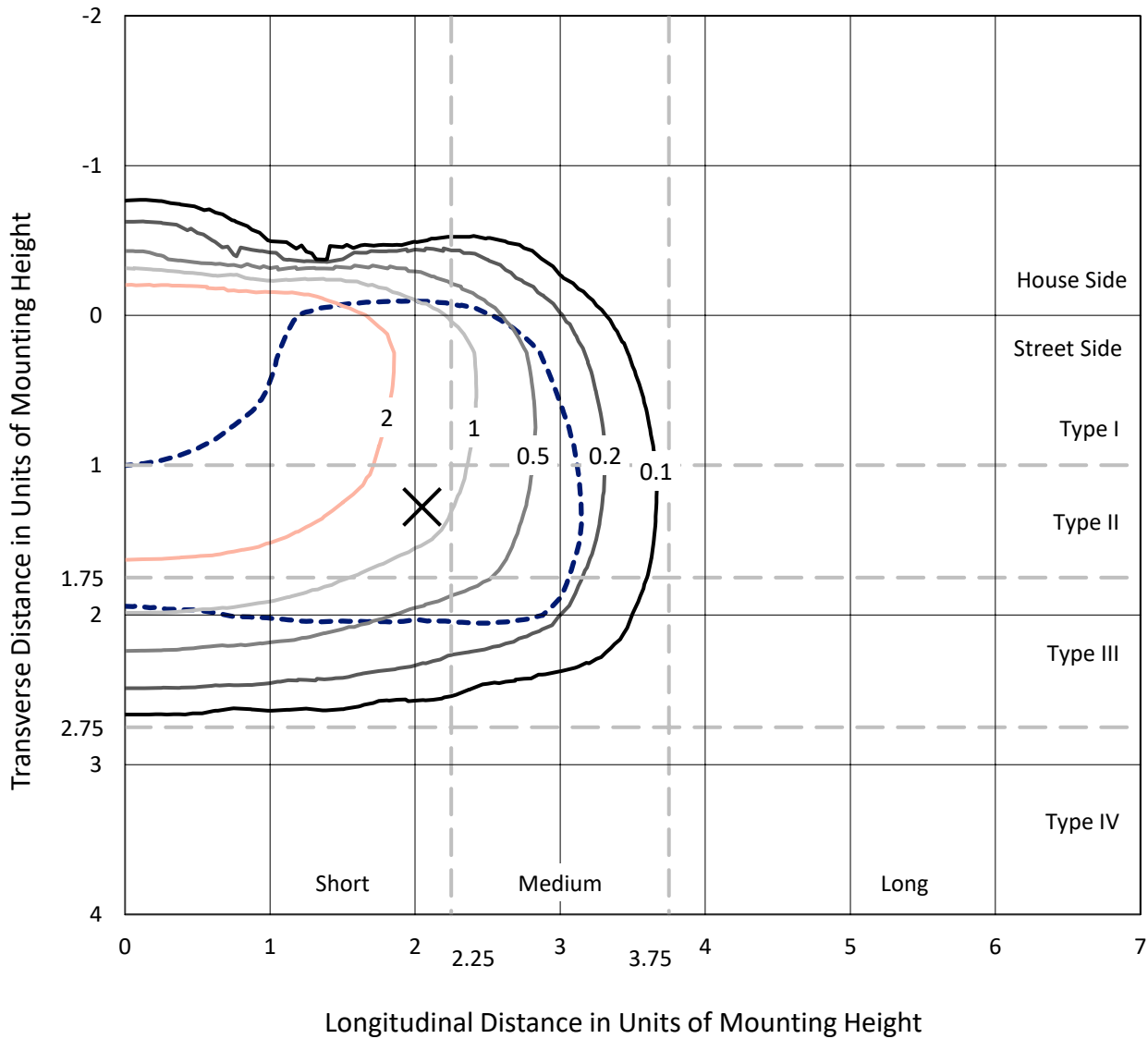
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

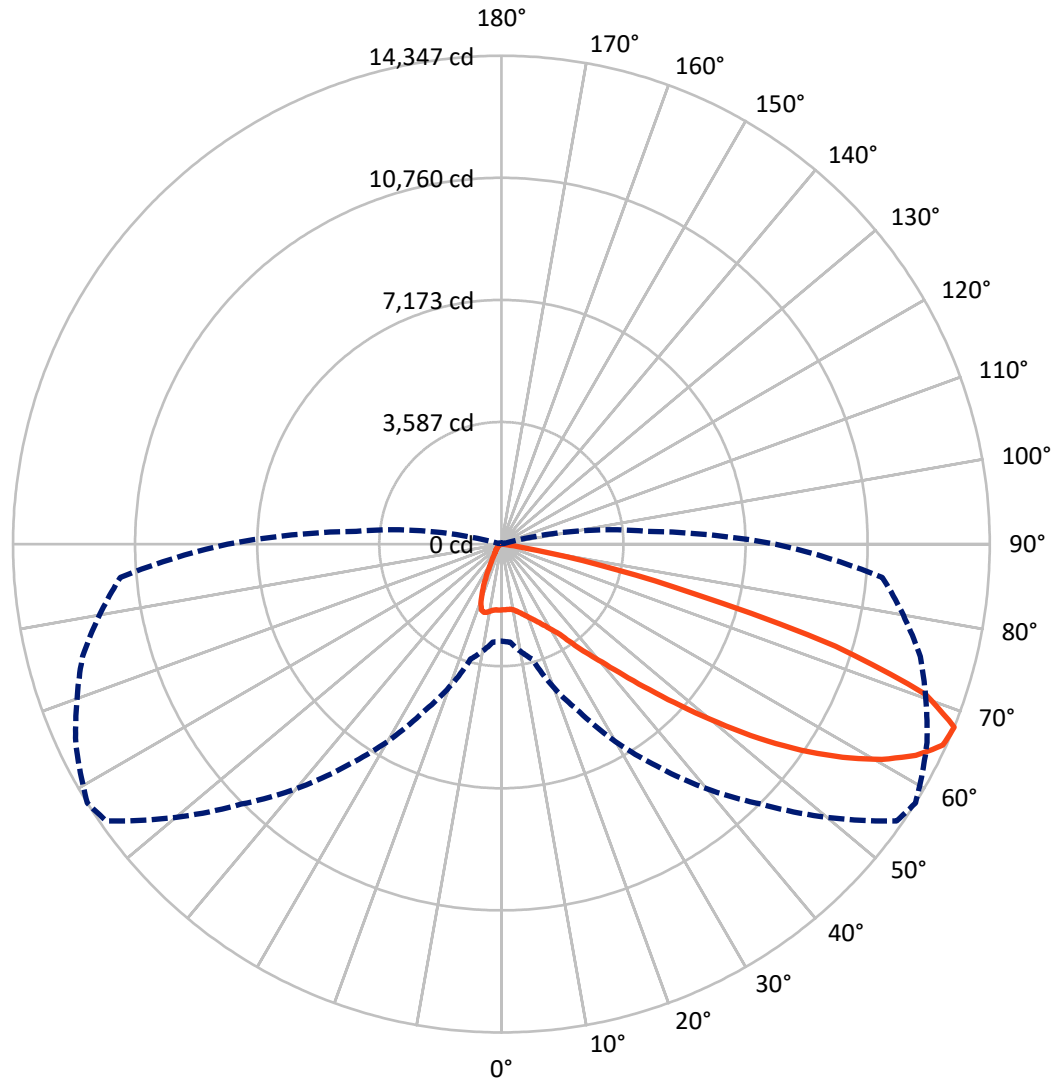
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1934.5 | 0.0 | 1934.5 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 15797.6 | 0.0 | 15797.6 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 17732.1 | 0.0 | 17732.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 181.5 | 1.0 |
| 10°-20° | 509.6 | 2.9 |
| 20°-30° | 889.6 | 5.0 |
| 30°-40° | 1588.7 | 9.0 |
| 40°-50° | 2903.8 | 16.4 |
| 50°-60° | 4829.4 | 27.2 |
| 60°-70° | 5245.5 | 29.6 |
| 70°-80° | 1540.1 | 8.7 |
| 80°-90° | 43.9 | 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° | 17732.1 | 100.0 |
| 0°-180° | 17732.1 | 100.0 |

Coefficient of Utilization



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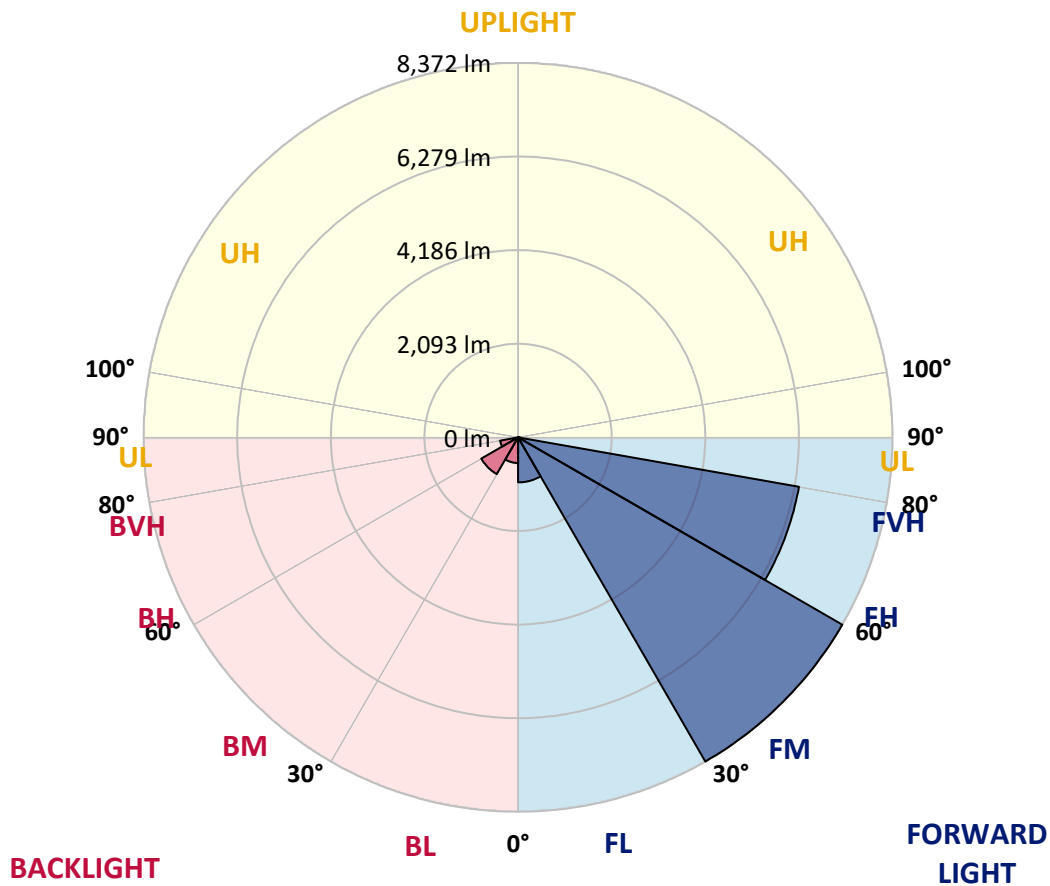
CATALOG NUMBER: GWS-SA4D-735-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1006.9 | 5.7 | | | |
| FM (30°-60°) | 8371.7 | 47.2 | | | |
| FH (60°-80°) | 6377.3 | 36.0 | | | G3/7500 |
| FVH (80°-90°) | 41.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 573.8 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 950.2 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 408.4 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 |
| 2.5° | 1895.9 | 1892.4 | 1892.4 | 1906.3 | 1908.0 | 1915.0 | 1930.5 | 1932.3 | 1940.9 | 1937.5 | 1925.3 |
| 5° | 1797.2 | 1798.9 | 1809.3 | 1833.6 | 1854.4 | 1880.3 | 1918.4 | 1927.1 | 1946.1 | 1956.5 | 1949.6 |
| 7.5° | 1705.5 | 1707.2 | 1722.8 | 1760.9 | 1800.7 | 1852.6 | 1915.0 | 1932.3 | 1970.4 | 1998.1 | 1999.8 |
| 10° | 1670.8 | 1669.1 | 1684.7 | 1728.0 | 1779.9 | 1852.6 | 1942.7 | 1965.2 | 2022.3 | 2070.8 | 2079.4 |
| 12.5° | 1681.2 | 1679.5 | 1695.1 | 1734.9 | 1792.0 | 1883.8 | 1991.1 | 2022.3 | 2095.0 | 2169.5 | 2185.1 |
| 15° | 1722.8 | 1721.0 | 1731.4 | 1764.3 | 1826.7 | 1921.9 | 2053.5 | 2100.2 | 2192.0 | 2282.0 | 2306.3 |
| 17.5° | 1847.4 | 1838.8 | 1828.4 | 1831.8 | 1868.2 | 1966.9 | 2133.1 | 2190.3 | 2304.5 | 2411.9 | 2432.7 |
| 20° | 2069.1 | 2046.5 | 2018.8 | 1982.5 | 1965.2 | 2032.7 | 2224.9 | 2290.7 | 2429.2 | 2552.1 | 2555.6 |
| 22.5° | 2403.2 | 2394.6 | 2330.5 | 2224.9 | 2150.4 | 2152.2 | 2332.2 | 2408.4 | 2578.1 | 2713.1 | 2694.1 |
| 25° | 2869.0 | 2863.8 | 2765.1 | 2591.9 | 2398.0 | 2332.2 | 2469.0 | 2546.9 | 2754.7 | 2898.4 | 2837.8 |
| 27.5° | 3447.3 | 3410.9 | 3294.9 | 3061.2 | 2772.0 | 2566.0 | 2642.2 | 2711.4 | 2941.7 | 3076.7 | 2962.5 |
| 30° | 3951.1 | 3952.8 | 3843.8 | 3599.6 | 3274.1 | 2917.4 | 2853.4 | 2914.0 | 3113.1 | 3255.1 | 3116.6 |
| 32.5° | 4435.9 | 4451.5 | 4332.0 | 4112.1 | 3755.5 | 3376.3 | 3156.4 | 3166.8 | 3333.0 | 3487.1 | 3319.1 |
| 35° | 4886.1 | 4898.2 | 4815.1 | 4628.1 | 4295.7 | 3855.9 | 3578.9 | 3573.7 | 3663.7 | 3821.3 | 3601.4 |
| 37.5° | 5389.9 | 5402.0 | 5320.7 | 5152.7 | 4841.1 | 4404.7 | 4058.5 | 4051.5 | 4087.9 | 4216.0 | 3965.0 |
| 40° | 5926.7 | 5949.2 | 5859.1 | 5717.2 | 5419.4 | 5050.6 | 4616.0 | 4553.6 | 4517.3 | 4667.9 | 4435.9 |
| 42.5° | 6470.3 | 6505.0 | 6473.8 | 6331.8 | 6077.3 | 5772.6 | 5339.7 | 5242.8 | 5164.8 | 5353.6 | 5107.7 |
| 45° | 7145.6 | 7187.1 | 7173.3 | 7064.2 | 6866.8 | 6619.2 | 6210.6 | 6098.1 | 6061.7 | 6236.6 | 5944.0 |
| 47.5° | 7794.9 | 7839.9 | 7890.1 | 7865.9 | 7725.6 | 7611.3 | 7157.7 | 7093.6 | 7083.3 | 7270.2 | 6816.6 |
| 50° | 8277.9 | 8319.5 | 8511.7 | 8650.2 | 8745.4 | 8721.2 | 8328.1 | 8232.9 | 8217.3 | 8336.8 | 7737.7 |
| 52.5° | 8624.2 | 8664.0 | 8929.0 | 9361.8 | 9711.6 | 9902.0 | 9505.5 | 9484.7 | 9399.9 | 9358.3 | 8600.0 |
| 55° | 8892.6 | 8948.0 | 9226.8 | 9881.2 | 10585.9 | 11008.4 | 10760.8 | 10686.3 | 10468.2 | 10229.3 | 9399.9 |
| 57.5° | 8946.3 | 8968.8 | 9361.8 | 10244.8 | 11264.6 | 11948.6 | 11948.6 | 11818.7 | 11398.0 | 11067.3 | 10324.5 |
| 60° | 8464.9 | 8534.2 | 9065.7 | 10215.4 | 11555.5 | 12563.2 | 12933.7 | 12843.7 | 12275.8 | 11868.9 | 11214.4 |
| 62.5° | 7396.6 | 7474.6 | 8122.1 | 9510.7 | 11264.6 | 12689.6 | 13680.0 | 13666.1 | 13025.5 | 12532.0 | 11952.0 |
| 65° | 5672.1 | 5729.3 | 6293.7 | 7955.9 | 10035.3 | 12203.1 | 14213.3 | 14251.4 | 13617.6 | 12970.1 | 12206.5 |
| 67.5° | 2849.9 | 2889.7 | 3499.2 | 5434.9 | 7954.2 | 10802.4 | 14176.9 | 14346.6 | 13797.7 | 12738.1 | 11235.2 |
| 70° | 995.6 | 1035.4 | 1322.8 | 2332.2 | 4841.1 | 8248.5 | 12951.1 | 13228.1 | 12739.8 | 10873.3 | 8288.3 |
| 72.5° | 341.1 | 360.1 | 548.9 | 865.7 | 1883.8 | 4889.5 | 9848.3 | 10265.6 | 9391.2 | 7299.7 | 4763.1 |
| 75° | 193.9 | 206.0 | 294.3 | 469.2 | 789.5 | 1608.5 | 5587.3 | 5843.6 | 5474.8 | 3978.8 | 1960.0 |
| 77.5° | 131.6 | 142.0 | 183.5 | 266.6 | 436.3 | 517.7 | 2278.6 | 2869.0 | 2501.9 | 1298.6 | 500.4 |
| 80° | 77.9 | 84.8 | 112.5 | 157.6 | 223.4 | 200.8 | 488.3 | 649.3 | 836.3 | 387.8 | 150.6 |
| 82.5° | 36.4 | 41.6 | 72.7 | 103.9 | 112.5 | 84.8 | 143.7 | 174.9 | 235.5 | 190.5 | 62.3 |
| 85° | 0.0 | 0.0 | 24.2 | 43.3 | 41.6 | 24.2 | 39.8 | 43.3 | 64.1 | 95.2 | 24.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.5 | 5.2 | 10.4 | 19.0 | 10.4 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 | 1932.3 |
| 2.5° | 1939.2 | 1927.1 | 1940.9 | 1934.0 | 1940.9 | 1939.2 | 1925.3 | 1916.7 | 1916.7 | 1901.1 | 1895.9 |
| 5° | 1963.4 | 1951.3 | 1954.8 | 1939.2 | 1935.7 | 1927.1 | 1909.8 | 1902.8 | 1902.8 | 1887.3 | 1882.1 |
| 7.5° | 2017.1 | 1998.1 | 1994.6 | 1963.4 | 1949.6 | 1925.3 | 1894.2 | 1882.1 | 1880.3 | 1864.7 | 1859.5 |
| 10° | 2101.9 | 2079.4 | 2063.9 | 2024.0 | 1984.2 | 1935.7 | 1869.9 | 1814.5 | 1783.4 | 1741.8 | 1738.3 |
| 12.5° | 2205.8 | 2178.1 | 2153.9 | 2093.3 | 2027.5 | 1918.4 | 1724.5 | 1521.9 | 1397.3 | 1298.6 | 1305.5 |
| 15° | 2321.8 | 2295.9 | 2257.8 | 2166.0 | 2031.0 | 1747.0 | 1341.9 | 1030.2 | 877.8 | 796.5 | 793.0 |
| 17.5° | 2448.2 | 2410.1 | 2347.8 | 2223.1 | 1921.9 | 1334.9 | 872.6 | 616.4 | 536.7 | 509.0 | 502.1 |
| 20° | 2566.0 | 2519.2 | 2441.3 | 2235.3 | 1606.8 | 903.8 | 545.4 | 477.9 | 464.0 | 455.4 | 455.4 |
| 22.5° | 2690.6 | 2631.8 | 2515.8 | 2141.8 | 1194.7 | 578.3 | 464.0 | 448.4 | 438.1 | 425.9 | 424.2 |
| 25° | 2817.0 | 2740.8 | 2583.3 | 1897.6 | 782.6 | 455.4 | 434.6 | 417.3 | 398.2 | 379.2 | 374.0 |
| 27.5° | 2924.4 | 2825.7 | 2635.2 | 1534.0 | 502.1 | 410.3 | 396.5 | 367.1 | 341.1 | 320.3 | 316.9 |
| 30° | 3052.5 | 2926.1 | 2657.7 | 1122.0 | 394.8 | 361.9 | 341.1 | 309.9 | 278.8 | 258.0 | 251.1 |
| 32.5° | 3223.9 | 3085.4 | 2623.1 | 730.7 | 349.7 | 318.6 | 285.7 | 249.3 | 218.2 | 195.7 | 192.2 |
| 35° | 3490.6 | 3326.1 | 2463.8 | 465.8 | 316.9 | 275.3 | 235.5 | 197.4 | 171.4 | 154.1 | 150.6 |
| 37.5° | 3816.1 | 3663.7 | 2202.4 | 349.7 | 284.0 | 238.9 | 192.2 | 155.8 | 136.8 | 124.7 | 121.2 |
| 40° | 4299.1 | 4086.2 | 1878.6 | 306.5 | 251.1 | 202.6 | 157.6 | 128.1 | 114.3 | 103.9 | 100.4 |
| 42.5° | 4925.9 | 4584.8 | 1506.3 | 278.8 | 219.9 | 169.7 | 128.1 | 105.6 | 93.5 | 86.6 | 84.8 |
| 45° | 5658.3 | 5071.3 | 1113.3 | 251.1 | 190.5 | 140.2 | 105.6 | 86.6 | 77.9 | 72.7 | 71.0 |
| 47.5° | 6408.0 | 5497.3 | 768.8 | 221.6 | 162.8 | 116.0 | 88.3 | 74.5 | 67.5 | 60.6 | 58.9 |
| 50° | 7207.9 | 5857.4 | 524.6 | 192.2 | 138.5 | 95.2 | 76.2 | 67.5 | 58.9 | 53.7 | 51.9 |
| 52.5° | 7794.9 | 5990.7 | 365.3 | 166.2 | 117.7 | 81.4 | 67.5 | 60.6 | 53.7 | 46.7 | 45.0 |
| 55° | 8336.8 | 5987.3 | 277.0 | 140.2 | 100.4 | 71.0 | 60.6 | 53.7 | 46.7 | 41.6 | 39.8 |
| 57.5° | 8877.0 | 5940.5 | 218.2 | 119.5 | 86.6 | 64.1 | 53.7 | 46.7 | 43.3 | 36.4 | 34.6 |
| 60° | 9226.8 | 5763.9 | 169.7 | 100.4 | 74.5 | 55.4 | 46.7 | 41.6 | 36.4 | 31.2 | 29.4 |
| 62.5° | 9412.0 | 5518.0 | 129.9 | 79.6 | 60.6 | 48.5 | 41.6 | 36.4 | 31.2 | 26.0 | 24.2 |
| 65° | 9161.0 | 5081.7 | 102.2 | 62.3 | 46.7 | 41.6 | 34.6 | 29.4 | 24.2 | 19.0 | 17.3 |
| 67.5° | 8047.7 | 4285.3 | 79.6 | 50.2 | 36.4 | 31.2 | 29.4 | 24.2 | 17.3 | 13.9 | 12.1 |
| 70° | 5687.7 | 2934.8 | 62.3 | 38.1 | 27.7 | 24.2 | 22.5 | 19.0 | 13.9 | 10.4 | 8.7 |
| 72.5° | 3121.8 | 1480.4 | 45.0 | 27.7 | 20.8 | 19.0 | 17.3 | 15.6 | 12.1 | 8.7 | 8.7 |
| 75° | 1201.6 | 406.9 | 32.9 | 19.0 | 13.9 | 13.9 | 12.1 | 12.1 | 10.4 | 6.9 | 6.9 |
| 77.5° | 313.4 | 121.2 | 20.8 | 12.1 | 8.7 | 8.7 | 8.7 | 6.9 | 6.9 | 5.2 | 5.2 |
| 80° | 100.4 | 39.8 | 12.1 | 8.7 | 6.9 | 5.2 | 5.2 | 3.5 | 5.2 | 3.5 | 3.5 |
| 82.5° | 32.9 | 13.9 | 6.9 | 6.9 | 5.2 | 3.5 | 3.5 | 1.7 | 1.7 | 0.0 | 0.0 |
| 85° | 12.1 | 6.9 | 5.2 | 3.5 | 3.5 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.9 | 3.5 | 3.5 | 3.5 | 3.5 | 1.7 | 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)