

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: P633931

Luminaire Tested: GWS-SA2F-760-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-760-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10106.8 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

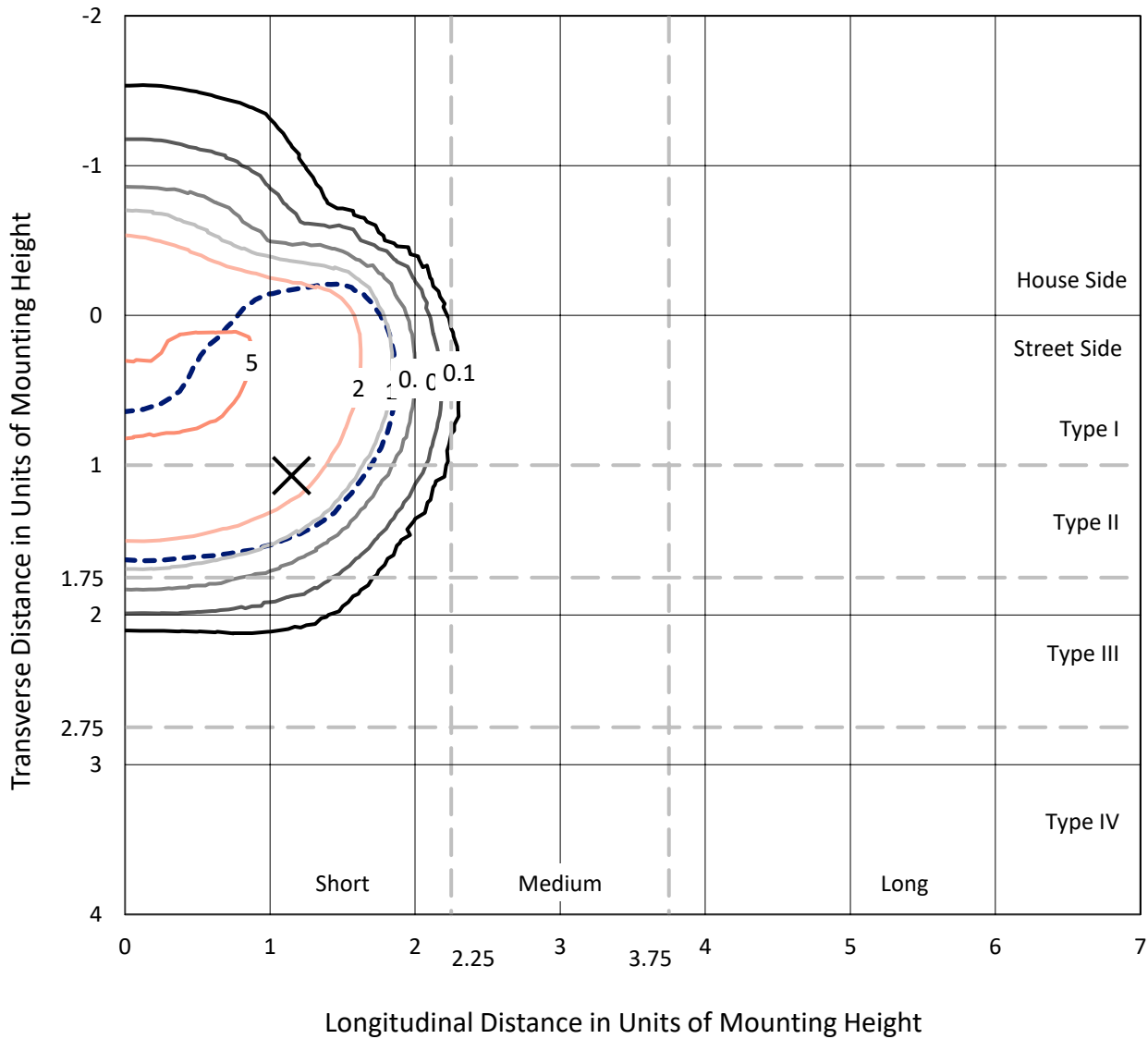
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

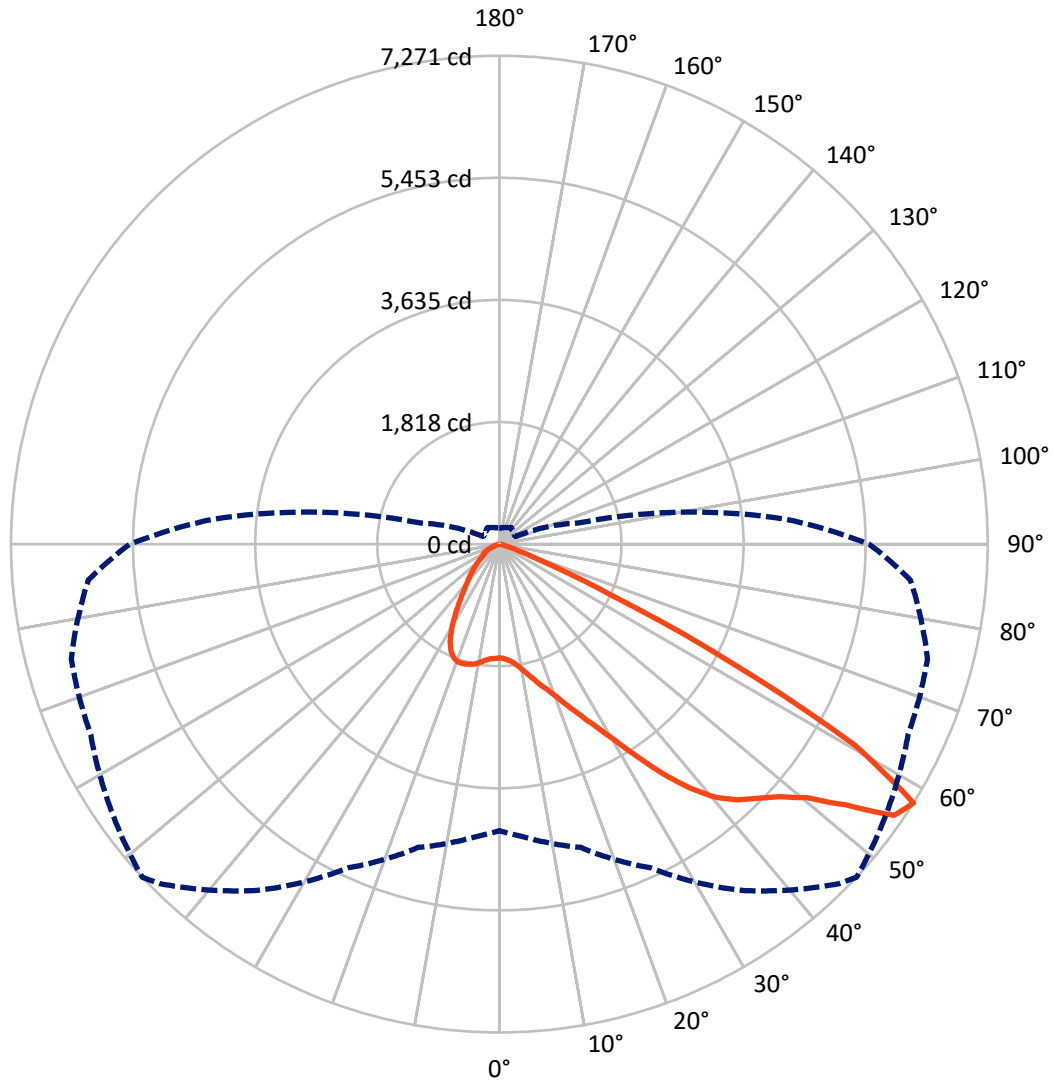
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2192.7 | 0.0 | 2192.7 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 7914.1 | 0.0 | 7914.1 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 10106.8 | 0.0 | 10106.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 168.3 | 1.7 |
| 10°-20° | 568.0 | 5.6 |
| 20°-30° | 1054.6 | 10.4 |
| 30°-40° | 1688.2 | 16.7 |
| 40°-50° | 2467.7 | 24.4 |
| 50°-60° | 3045.6 | 30.1 |
| 60°-70° | 1017.7 | 10.1 |
| 70°-80° | 94.8 | 0.9 |
| 80°-90° | 2.0 | 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° | 10106.8 | 100.0 |
| 0°-180° | 10106.8 | 100.0 |

Coefficient of Utilization



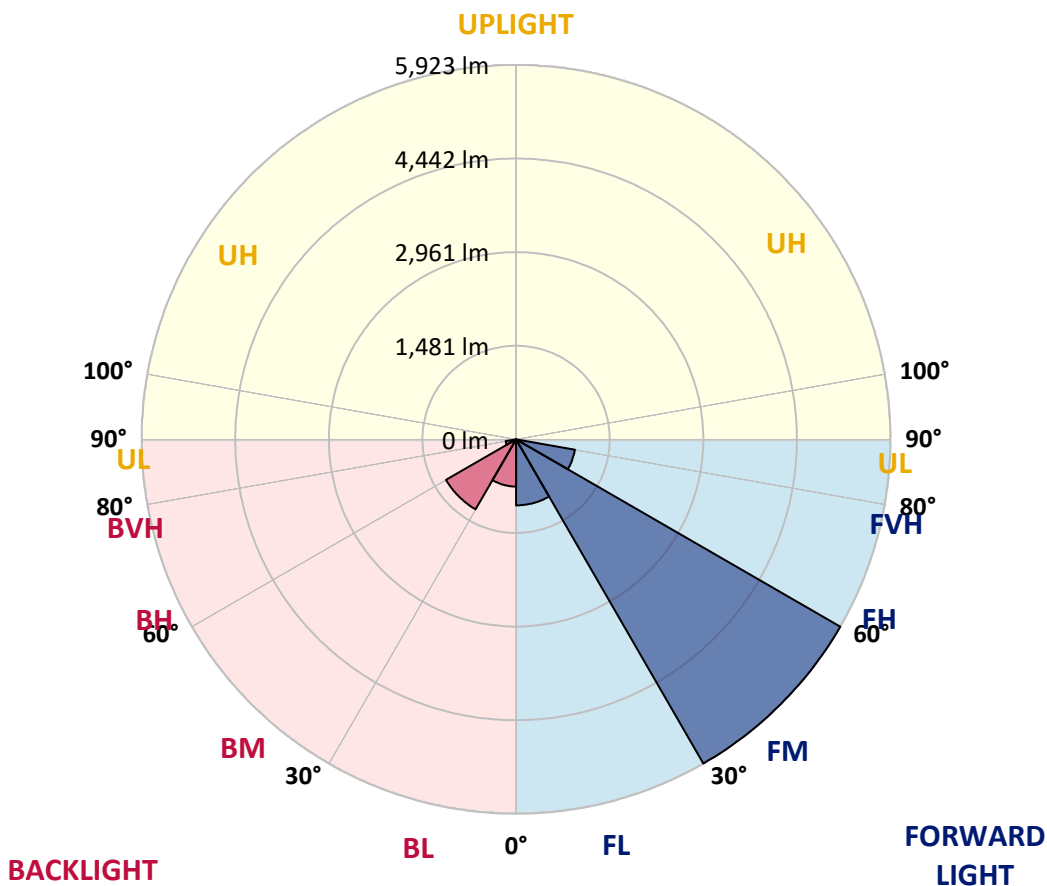
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1044.5 | 10.3 | | | |
| FM (30°-60°) | 5922.5 | 58.6 | | | |
| FH (60°-80°) | 945.8 | 9.4 | | | G1/1800 |
| FVH (80°-90°) | 1.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 746.4 | 7.4 | B2/1000 | | |
| BM (30°-60°) | 1279.0 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 166.7 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.6 | 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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 |
| 2.5° | 1709.5 | 1708.3 | 1707.1 | 1714.2 | 1711.8 | 1710.7 | 1713.0 | 1713.0 | 1713.0 | 1706.0 | 1691.9 |
| 5° | 1750.6 | 1750.6 | 1749.4 | 1756.4 | 1750.6 | 1747.0 | 1748.2 | 1748.2 | 1743.5 | 1730.6 | 1713.0 |
| 7.5° | 1815.1 | 1812.7 | 1810.4 | 1817.4 | 1811.6 | 1810.4 | 1812.7 | 1805.7 | 1797.5 | 1776.4 | 1751.7 |
| 10° | 1907.8 | 1907.8 | 1904.3 | 1911.3 | 1906.6 | 1904.3 | 1904.3 | 1899.6 | 1884.3 | 1851.5 | 1815.1 |
| 12.5° | 2035.7 | 2029.8 | 2021.6 | 2015.7 | 2013.4 | 2012.2 | 2013.4 | 2006.3 | 1989.9 | 1947.7 | 1897.2 |
| 15° | 2175.3 | 2170.6 | 2157.7 | 2148.3 | 2135.4 | 2133.0 | 2140.1 | 2134.2 | 2117.8 | 2060.3 | 1988.7 |
| 17.5° | 2351.3 | 2357.1 | 2324.3 | 2304.3 | 2266.8 | 2264.5 | 2266.8 | 2276.2 | 2264.5 | 2190.5 | 2086.1 |
| 20° | 2501.5 | 2506.2 | 2481.5 | 2467.4 | 2433.4 | 2418.2 | 2422.9 | 2438.1 | 2425.2 | 2338.4 | 2192.9 |
| 22.5° | 2662.2 | 2668.1 | 2642.3 | 2612.9 | 2597.7 | 2597.7 | 2615.3 | 2636.4 | 2618.8 | 2505.0 | 2314.9 |
| 25° | 2854.6 | 2859.3 | 2838.2 | 2799.5 | 2772.5 | 2806.5 | 2832.3 | 2888.6 | 2859.3 | 2704.4 | 2459.2 |
| 27.5° | 3075.2 | 3076.4 | 3045.9 | 3006.0 | 2991.9 | 3055.3 | 3081.1 | 3167.9 | 3156.2 | 2928.5 | 2611.8 |
| 30° | 3311.0 | 3312.2 | 3305.2 | 3278.2 | 3265.3 | 3348.6 | 3383.8 | 3509.3 | 3501.1 | 3206.6 | 2819.4 |
| 32.5° | 3556.3 | 3556.3 | 3569.2 | 3566.8 | 3582.1 | 3718.2 | 3774.5 | 3917.6 | 3909.4 | 3546.9 | 3077.5 |
| 35° | 3802.6 | 3803.8 | 3826.1 | 3882.4 | 3945.8 | 4126.5 | 4200.4 | 4374.0 | 4355.3 | 3954.0 | 3407.2 |
| 37.5° | 4083.1 | 4071.3 | 4101.8 | 4186.3 | 4327.1 | 4536.0 | 4606.4 | 4771.8 | 4750.7 | 4370.5 | 3837.8 |
| 40° | 4421.0 | 4399.9 | 4399.9 | 4498.4 | 4658.0 | 4898.5 | 4958.3 | 5040.5 | 4968.9 | 4707.3 | 4260.2 |
| 42.5° | 4794.1 | 4774.1 | 4748.3 | 4835.1 | 4968.9 | 5156.6 | 5205.9 | 5183.6 | 5124.9 | 5025.2 | 4741.3 |
| 45° | 5171.9 | 5141.4 | 5159.0 | 5211.8 | 5289.2 | 5378.4 | 5397.1 | 5293.9 | 5266.9 | 5295.1 | 5139.0 |
| 47.5° | 5459.3 | 5438.2 | 5481.6 | 5555.5 | 5618.9 | 5631.8 | 5618.9 | 5475.8 | 5473.4 | 5573.1 | 5414.7 |
| 50° | 5555.5 | 5557.9 | 5677.6 | 5839.5 | 5941.6 | 5952.1 | 5934.5 | 5770.3 | 5748.0 | 5777.3 | 5563.8 |
| 52.5° | 5564.9 | 5574.3 | 5749.1 | 6057.7 | 6335.8 | 6462.5 | 6448.4 | 6271.3 | 6053.0 | 6021.3 | 5789.0 |
| 55° | 5338.5 | 5393.6 | 5637.7 | 6088.2 | 6679.6 | 7084.3 | 7131.3 | 6792.2 | 6468.4 | 6441.4 | 6273.6 |
| 57.5° | 4267.3 | 4379.9 | 4674.4 | 5316.2 | 6295.9 | 7148.9 | 7270.9 | 7026.9 | 6713.6 | 6598.6 | 6143.4 |
| 60° | 2550.7 | 2690.4 | 2973.1 | 3760.4 | 4791.7 | 5875.9 | 6085.9 | 6119.9 | 5975.6 | 5643.5 | 4713.1 |
| 62.5° | 1094.7 | 1082.9 | 1431.4 | 2034.5 | 2849.9 | 3734.6 | 3829.6 | 3977.5 | 4103.0 | 3755.7 | 2860.5 |
| 65° | 375.5 | 408.3 | 567.9 | 917.5 | 1426.7 | 1734.1 | 1818.6 | 1951.2 | 2129.5 | 1757.6 | 1047.8 |
| 67.5° | 232.3 | 246.4 | 327.3 | 542.1 | 769.7 | 757.9 | 720.4 | 699.3 | 680.5 | 465.8 | 287.5 |
| 70° | 169.0 | 180.7 | 230.0 | 373.1 | 517.4 | 363.7 | 315.6 | 255.8 | 283.9 | 261.6 | 204.2 |
| 72.5° | 113.8 | 123.2 | 158.4 | 226.4 | 265.2 | 177.2 | 164.3 | 186.6 | 225.3 | 214.7 | 166.6 |
| 75° | 68.1 | 73.9 | 90.3 | 110.3 | 107.9 | 91.5 | 92.7 | 131.4 | 172.5 | 160.7 | 118.5 |
| 77.5° | 46.9 | 49.3 | 59.8 | 71.6 | 52.8 | 28.2 | 25.8 | 36.4 | 58.7 | 58.7 | 39.9 |
| 80° | 11.7 | 15.3 | 15.3 | 9.4 | 8.2 | 7.0 | 7.0 | 10.6 | 16.4 | 11.7 | 5.9 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.3 | 2.3 | 2.3 | 2.3 |
| 85° | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.3 | 2.3 | 2.3 |
| 87.5° | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.3 | 2.3 |
| 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° | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 | 1691.9 |
| 2.5° | 1700.1 | 1686.0 | 1695.4 | 1693.1 | 1700.1 | 1702.4 | 1691.9 | 1689.5 | 1690.7 | 1676.6 | 1671.9 |
| 5° | 1716.5 | 1700.1 | 1704.8 | 1700.1 | 1708.3 | 1715.4 | 1711.8 | 1716.5 | 1722.4 | 1711.8 | 1707.1 |
| 7.5° | 1751.7 | 1735.3 | 1734.1 | 1727.1 | 1738.8 | 1743.5 | 1742.3 | 1755.2 | 1767.0 | 1759.9 | 1752.9 |
| 10° | 1812.7 | 1790.4 | 1788.1 | 1782.2 | 1785.8 | 1789.3 | 1776.4 | 1778.7 | 1789.3 | 1781.1 | 1777.5 |
| 12.5° | 1887.8 | 1860.8 | 1855.0 | 1840.9 | 1840.9 | 1823.3 | 1795.1 | 1789.3 | 1797.5 | 1791.6 | 1785.8 |
| 15° | 1968.8 | 1932.4 | 1923.0 | 1898.4 | 1874.9 | 1842.1 | 1812.7 | 1805.7 | 1811.6 | 1804.5 | 1799.8 |
| 17.5° | 2059.1 | 2018.1 | 1987.6 | 1944.1 | 1892.5 | 1853.8 | 1821.0 | 1805.7 | 1796.3 | 1782.2 | 1781.1 |
| 20° | 2148.3 | 2094.3 | 2042.7 | 1973.5 | 1905.4 | 1846.8 | 1792.8 | 1752.9 | 1718.9 | 1697.8 | 1689.5 |
| 22.5° | 2251.6 | 2171.8 | 2088.5 | 1991.1 | 1893.7 | 1804.5 | 1709.5 | 1641.4 | 1582.8 | 1562.8 | 1553.4 |
| 25° | 2361.8 | 2258.6 | 2134.2 | 2007.5 | 1853.8 | 1710.7 | 1581.6 | 1480.7 | 1403.3 | 1377.4 | 1366.9 |
| 27.5° | 2483.9 | 2341.9 | 2181.2 | 2004.0 | 1771.7 | 1576.9 | 1405.6 | 1280.1 | 1203.8 | 1180.3 | 1188.5 |
| 30° | 2638.7 | 2449.8 | 2239.8 | 1967.6 | 1648.5 | 1389.2 | 1188.5 | 1082.9 | 1025.5 | 1003.2 | 1004.3 |
| 32.5° | 2845.2 | 2604.7 | 2325.5 | 1890.2 | 1490.1 | 1175.6 | 999.6 | 922.2 | 883.5 | 854.2 | 851.8 |
| 35° | 3140.9 | 2840.5 | 2405.3 | 1765.8 | 1297.7 | 985.6 | 857.7 | 796.7 | 742.7 | 708.7 | 714.5 |
| 37.5° | 3495.2 | 3137.4 | 2448.7 | 1598.0 | 1081.8 | 837.7 | 750.9 | 688.7 | 627.7 | 577.3 | 583.1 |
| 40° | 3915.3 | 3525.7 | 2445.1 | 1377.4 | 884.7 | 736.8 | 661.7 | 589.0 | 512.7 | 467.0 | 471.7 |
| 42.5° | 4383.4 | 3893.0 | 2368.9 | 1144.0 | 733.3 | 654.7 | 576.1 | 484.6 | 410.7 | 382.5 | 383.7 |
| 45° | 4789.4 | 4191.0 | 2235.1 | 902.3 | 617.2 | 574.9 | 486.9 | 393.1 | 360.2 | 340.3 | 339.1 |
| 47.5° | 5089.7 | 4409.2 | 2043.9 | 709.8 | 523.3 | 502.2 | 400.1 | 352.0 | 326.2 | 309.7 | 307.4 |
| 50° | 5257.5 | 4485.5 | 1832.7 | 556.1 | 442.3 | 425.9 | 357.9 | 319.1 | 301.5 | 291.0 | 288.6 |
| 52.5° | 5482.8 | 4577.0 | 1681.3 | 438.8 | 370.8 | 348.5 | 329.7 | 296.8 | 285.1 | 276.9 | 273.4 |
| 55° | 5839.5 | 4754.2 | 1549.9 | 348.5 | 308.6 | 303.9 | 310.9 | 283.9 | 276.9 | 264.0 | 259.3 |
| 57.5° | 5503.9 | 4270.8 | 1203.8 | 269.9 | 260.5 | 278.1 | 300.4 | 271.0 | 253.4 | 241.7 | 237.0 |
| 60° | 3873.0 | 2839.4 | 605.4 | 217.1 | 232.3 | 260.5 | 282.8 | 245.2 | 227.6 | 230.0 | 227.6 |
| 62.5° | 2135.4 | 1420.9 | 272.2 | 181.9 | 201.8 | 230.0 | 241.7 | 212.4 | 200.6 | 220.6 | 224.1 |
| 65° | 698.1 | 483.4 | 157.2 | 140.8 | 159.6 | 187.7 | 208.8 | 201.8 | 199.5 | 222.9 | 230.0 |
| 67.5° | 214.7 | 159.6 | 106.8 | 100.9 | 110.3 | 138.4 | 176.0 | 218.2 | 234.7 | 241.7 | 245.2 |
| 70° | 160.7 | 125.5 | 91.5 | 85.7 | 90.3 | 105.6 | 149.0 | 181.9 | 171.3 | 172.5 | 170.1 |
| 72.5° | 129.1 | 99.7 | 78.6 | 75.1 | 75.1 | 72.7 | 78.6 | 98.6 | 111.5 | 117.3 | 117.3 |
| 75° | 90.3 | 70.4 | 59.8 | 55.1 | 43.4 | 35.2 | 31.7 | 31.7 | 28.2 | 27.0 | 25.8 |
| 77.5° | 30.5 | 25.8 | 23.5 | 18.8 | 12.9 | 10.6 | 9.4 | 8.2 | 5.9 | 3.5 | 2.3 |
| 80° | 4.7 | 3.5 | 2.3 | 2.3 | 2.3 | 1.2 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.3 | 2.3 | 2.3 | 2.3 | 1.2 | 1.2 | 1.2 | 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)