

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: P630823

Luminaire Tested: GWS-SA1E-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7800.6 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

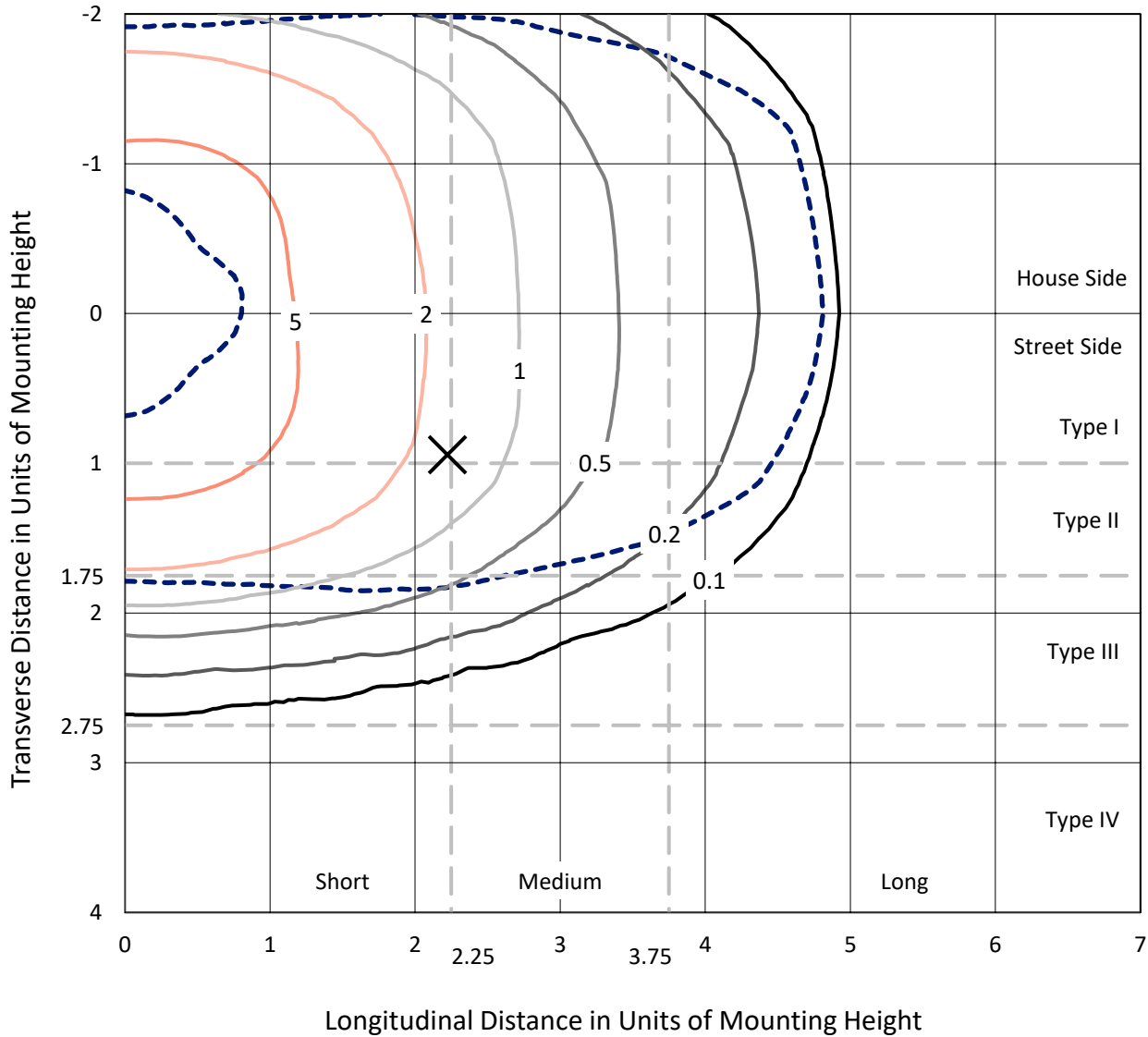
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

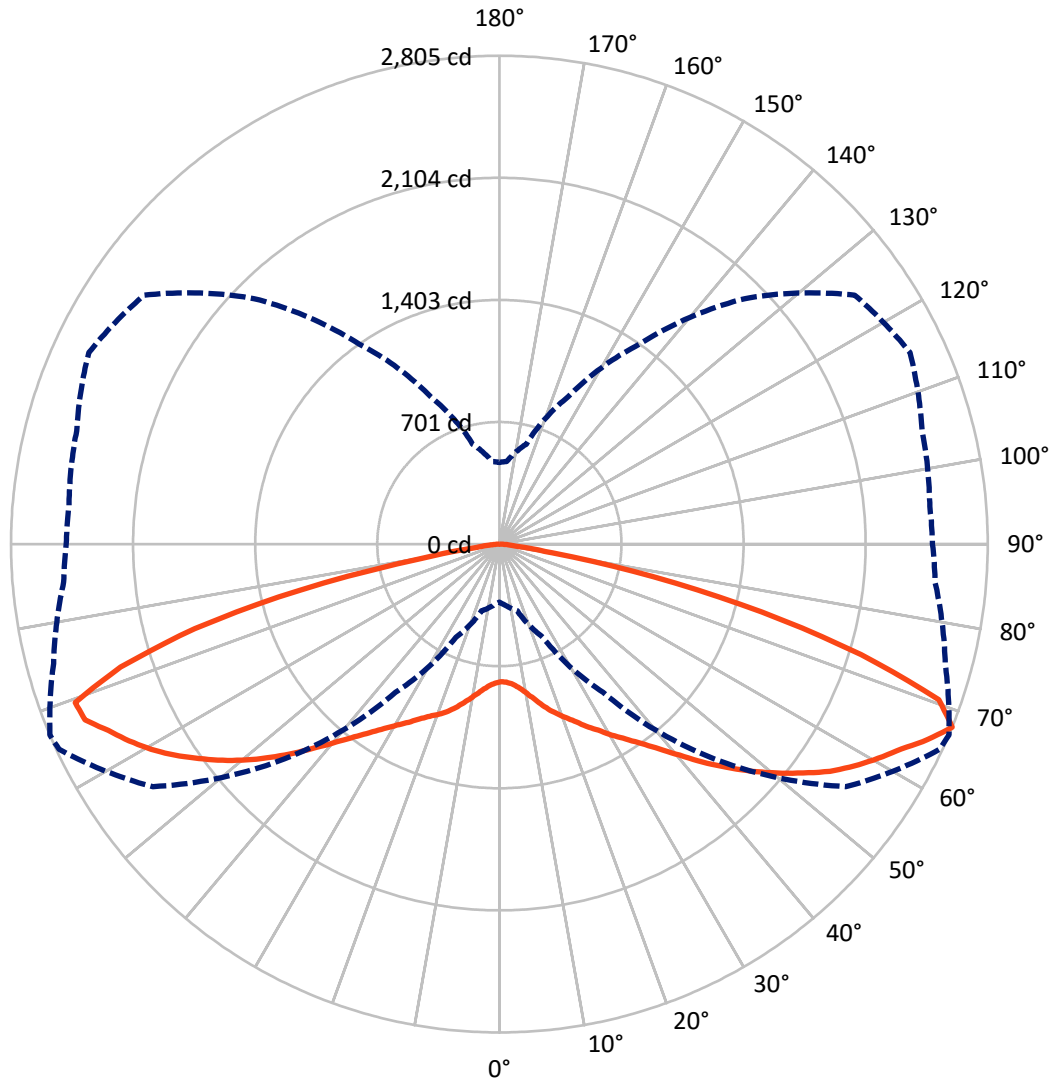
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3857.3 | 0.0 | 3857.3 |
| | % Fixture | 49.4 | 0.0 | 49.4 |
| Street Side | Lumens | 3943.3 | 0.0 | 3943.3 |
| | % Fixture | 50.6 | 0.0 | 50.6 |
| Total | Lumens | 7800.6 | 0.0 | 7800.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.5 | 1.0 |
| 10°-20° | 261.8 | 3.4 |
| 20°-30° | 513.7 | 6.6 |
| 30°-40° | 875.1 | 11.2 |
| 40°-50° | 1405.2 | 18.0 |
| 50°-60° | 1909.4 | 24.5 |
| 60°-70° | 1826.5 | 23.4 |
| 70°-80° | 868.4 | 11.1 |
| 80°-90° | 62.9 | 0.8 |
| 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° | 7800.6 | 100.0 |
| 0°-180° | 7800.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P630823

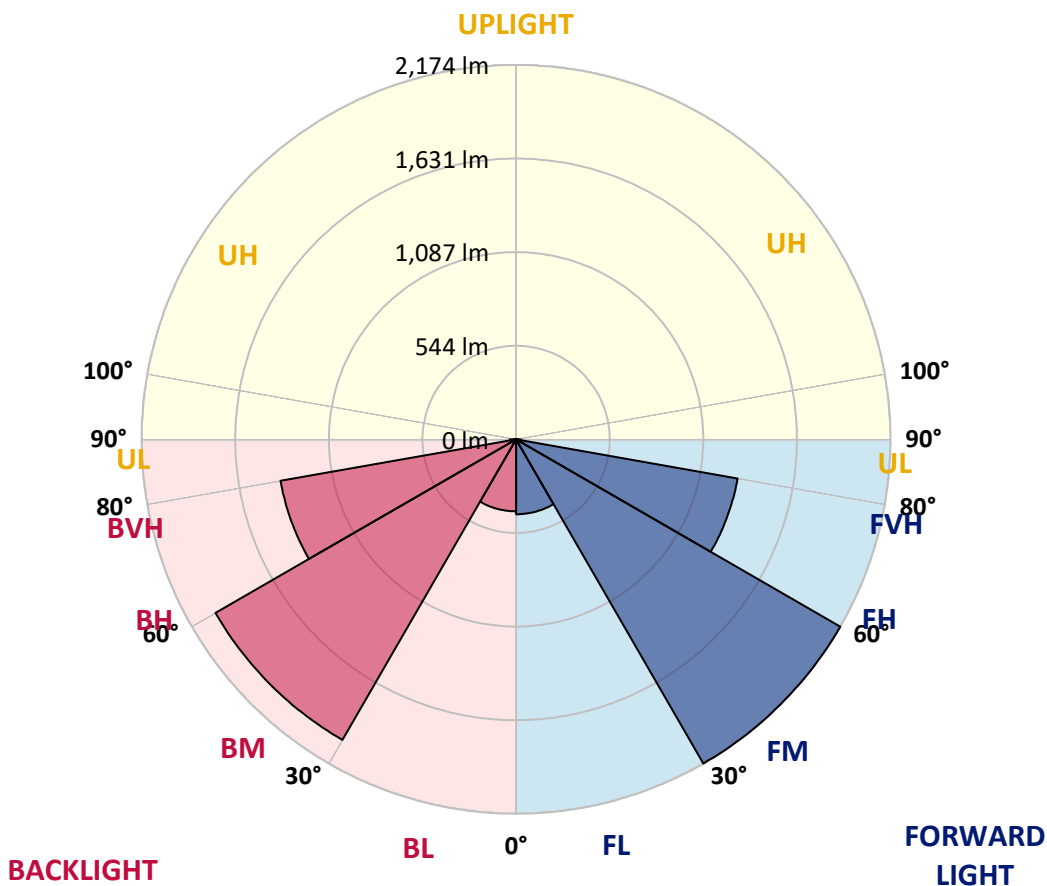
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 434.9 | 5.6 | | | |
| FM (30°-60°) | 2174.1 | 27.9 | | | |
| FH (60°-80°) | 1306.0 | 16.7 | | | G1/1800 |
| FVH (80°-90°) | 28.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 418.0 | 5.4 | B1/500 | | |
| BM (30°-60°) | 2015.7 | 25.8 | B2/2500 | | |
| BH (60°-80°) | 1388.9 | 17.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 34.6 | 0.4 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 |
| 2.5° | 773.6 | 774.6 | 776.3 | 779.5 | 782.8 | 787.7 | 792.6 | 792.0 | 794.2 | 795.8 | 797.5 |
| 5° | 769.2 | 770.3 | 773.0 | 777.4 | 782.2 | 790.4 | 800.7 | 805.1 | 808.3 | 814.3 | 819.7 |
| 7.5° | 778.4 | 780.6 | 784.4 | 790.4 | 798.0 | 808.3 | 822.4 | 830.1 | 834.9 | 845.8 | 855.0 |
| 10° | 790.9 | 793.7 | 801.3 | 812.7 | 824.1 | 839.8 | 857.8 | 869.2 | 872.4 | 886.5 | 903.9 |
| 12.5° | 802.9 | 806.2 | 818.6 | 839.3 | 859.9 | 881.1 | 902.3 | 916.4 | 917.5 | 936.5 | 956.1 |
| 15° | 821.9 | 824.6 | 841.5 | 868.1 | 899.6 | 928.9 | 955.0 | 964.8 | 969.1 | 982.7 | 1007.1 |
| 17.5° | 863.7 | 867.0 | 888.7 | 917.5 | 950.6 | 981.6 | 1007.7 | 1015.8 | 1015.8 | 1027.2 | 1047.3 |
| 20° | 908.8 | 912.1 | 940.9 | 977.8 | 1018.0 | 1049.5 | 1069.6 | 1062.0 | 1059.3 | 1062.6 | 1076.7 |
| 22.5° | 959.3 | 965.3 | 993.0 | 1035.9 | 1085.4 | 1123.9 | 1134.3 | 1111.4 | 1103.8 | 1096.2 | 1099.5 |
| 25° | 1024.0 | 1031.0 | 1058.2 | 1103.8 | 1152.2 | 1192.9 | 1198.9 | 1163.6 | 1159.2 | 1132.6 | 1122.9 |
| 27.5° | 1098.4 | 1103.8 | 1137.5 | 1182.6 | 1227.7 | 1261.9 | 1268.4 | 1225.0 | 1210.3 | 1173.4 | 1150.6 |
| 30° | 1194.6 | 1199.4 | 1228.8 | 1273.3 | 1312.4 | 1336.3 | 1344.5 | 1284.7 | 1273.3 | 1216.8 | 1181.5 |
| 32.5° | 1299.4 | 1301.6 | 1331.5 | 1374.4 | 1409.1 | 1432.0 | 1420.5 | 1351.0 | 1334.2 | 1270.6 | 1222.3 |
| 35° | 1419.5 | 1419.5 | 1458.0 | 1492.8 | 1520.5 | 1527.0 | 1505.3 | 1426.0 | 1406.4 | 1337.4 | 1277.1 |
| 37.5° | 1537.3 | 1540.6 | 1576.4 | 1617.7 | 1642.2 | 1641.1 | 1601.4 | 1514.5 | 1492.2 | 1417.3 | 1350.5 |
| 40° | 1665.0 | 1672.1 | 1707.9 | 1754.1 | 1777.4 | 1774.2 | 1713.3 | 1616.6 | 1593.8 | 1505.3 | 1440.1 |
| 42.5° | 1782.3 | 1793.7 | 1835.6 | 1882.8 | 1908.4 | 1906.2 | 1842.6 | 1734.0 | 1711.7 | 1611.8 | 1546.6 |
| 45° | 1875.8 | 1887.7 | 1939.9 | 2005.6 | 2046.3 | 2042.5 | 1978.4 | 1855.7 | 1828.5 | 1723.7 | 1652.0 |
| 47.5° | 1957.8 | 1970.3 | 2028.4 | 2097.9 | 2162.6 | 2169.1 | 2110.4 | 1978.4 | 1949.6 | 1843.7 | 1762.8 |
| 50° | 2020.8 | 2026.8 | 2092.0 | 2168.0 | 2243.0 | 2279.4 | 2228.3 | 2101.8 | 2067.0 | 1962.1 | 1870.9 |
| 52.5° | 2015.9 | 2024.1 | 2104.5 | 2207.7 | 2308.2 | 2367.9 | 2332.6 | 2218.0 | 2184.3 | 2070.2 | 1981.2 |
| 55° | 1916.5 | 1924.7 | 2020.3 | 2170.7 | 2344.6 | 2432.6 | 2428.8 | 2328.8 | 2304.4 | 2180.5 | 2095.8 |
| 57.5° | 1771.5 | 1789.4 | 1884.5 | 2046.9 | 2296.8 | 2484.2 | 2499.4 | 2429.9 | 2404.3 | 2288.6 | 2209.3 |
| 60° | 1511.8 | 1535.7 | 1645.4 | 1856.2 | 2143.6 | 2466.8 | 2574.9 | 2515.1 | 2499.4 | 2389.1 | 2312.0 |
| 62.5° | 1098.4 | 1115.8 | 1261.9 | 1538.4 | 1916.5 | 2342.9 | 2638.5 | 2603.2 | 2591.2 | 2479.3 | 2404.9 |
| 65° | 657.8 | 697.5 | 814.8 | 1088.1 | 1546.0 | 2109.4 | 2603.7 | 2718.3 | 2705.8 | 2572.2 | 2484.2 |
| 67.5° | 333.0 | 350.9 | 397.1 | 589.9 | 1039.7 | 1745.4 | 2429.3 | 2790.0 | 2805.2 | 2651.5 | 2512.4 |
| 70° | 206.4 | 211.3 | 224.4 | 291.2 | 519.3 | 1146.8 | 1986.6 | 2603.2 | 2677.6 | 2639.0 | 2439.1 |
| 72.5° | 165.7 | 166.8 | 168.9 | 181.4 | 249.3 | 536.2 | 1255.9 | 2038.7 | 2172.9 | 2464.6 | 2334.3 |
| 75° | 137.4 | 138.0 | 138.5 | 142.3 | 155.4 | 218.9 | 611.1 | 1401.0 | 1558.0 | 2094.7 | 2164.2 |
| 77.5° | 110.3 | 107.6 | 109.7 | 111.4 | 114.6 | 122.2 | 210.8 | 747.5 | 906.6 | 1374.9 | 1673.7 |
| 80° | 71.7 | 70.6 | 75.0 | 76.6 | 79.9 | 84.7 | 112.4 | 253.7 | 308.0 | 500.3 | 532.4 |
| 82.5° | 38.6 | 36.4 | 45.6 | 44.0 | 45.6 | 49.4 | 66.3 | 92.9 | 104.3 | 151.0 | 127.7 |
| 85° | 12.0 | 12.0 | 12.5 | 14.7 | 17.9 | 17.4 | 28.8 | 45.6 | 50.5 | 64.6 | 47.8 |
| 87.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.7 | 6.0 | 9.2 | 12.5 | 22.3 | 16.8 |
| 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° | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 | 789.9 |
| 2.5° | 800.7 | 795.8 | 798.5 | 800.2 | 799.6 | 798.5 | 793.1 | 792.0 | 789.3 | 785.0 | 783.9 |
| 5° | 824.6 | 819.2 | 819.7 | 818.1 | 812.7 | 805.6 | 793.7 | 787.7 | 782.8 | 777.4 | 776.8 |
| 7.5° | 862.1 | 856.1 | 854.5 | 846.9 | 831.7 | 815.4 | 796.4 | 785.5 | 777.4 | 770.3 | 769.2 |
| 10° | 909.9 | 903.9 | 898.5 | 880.6 | 855.6 | 833.9 | 808.9 | 793.1 | 781.2 | 772.5 | 770.8 |
| 12.5° | 963.1 | 958.3 | 944.7 | 918.6 | 888.7 | 863.2 | 837.7 | 818.1 | 800.7 | 787.7 | 786.1 |
| 15° | 1022.4 | 1011.5 | 990.8 | 957.2 | 928.9 | 908.3 | 877.3 | 850.7 | 823.0 | 805.6 | 801.8 |
| 17.5° | 1063.6 | 1054.4 | 1030.0 | 997.4 | 975.1 | 957.2 | 920.8 | 882.7 | 845.3 | 819.7 | 814.3 |
| 20° | 1093.0 | 1083.2 | 1055.5 | 1031.6 | 1024.5 | 1009.3 | 966.9 | 922.9 | 879.5 | 848.0 | 840.9 |
| 22.5° | 1114.2 | 1103.8 | 1075.6 | 1063.6 | 1073.4 | 1070.7 | 1029.4 | 979.4 | 927.8 | 890.4 | 881.7 |
| 25° | 1134.3 | 1124.5 | 1099.5 | 1103.8 | 1129.9 | 1138.1 | 1093.5 | 1035.4 | 976.7 | 932.7 | 922.4 |
| 27.5° | 1153.3 | 1140.8 | 1129.4 | 1153.3 | 1190.2 | 1205.4 | 1158.2 | 1092.4 | 1028.9 | 983.8 | 975.6 |
| 30° | 1182.6 | 1167.9 | 1166.3 | 1201.1 | 1259.7 | 1272.8 | 1220.6 | 1154.9 | 1091.9 | 1046.3 | 1035.9 |
| 32.5° | 1219.5 | 1206.0 | 1207.1 | 1259.2 | 1327.1 | 1338.0 | 1293.4 | 1232.0 | 1169.0 | 1123.4 | 1109.3 |
| 35° | 1269.5 | 1252.7 | 1261.9 | 1326.0 | 1394.5 | 1414.6 | 1378.7 | 1327.7 | 1266.3 | 1219.5 | 1203.8 |
| 37.5° | 1338.5 | 1314.1 | 1333.1 | 1400.4 | 1469.4 | 1499.3 | 1471.6 | 1433.6 | 1372.7 | 1325.5 | 1310.8 |
| 40° | 1426.5 | 1406.4 | 1414.0 | 1488.4 | 1559.6 | 1595.5 | 1578.1 | 1540.6 | 1480.3 | 1430.9 | 1414.0 |
| 42.5° | 1530.8 | 1510.7 | 1508.0 | 1587.3 | 1658.5 | 1712.8 | 1696.0 | 1661.7 | 1599.3 | 1542.8 | 1526.5 |
| 45° | 1632.9 | 1614.5 | 1618.3 | 1699.2 | 1779.1 | 1838.3 | 1821.4 | 1781.2 | 1713.3 | 1648.2 | 1635.1 |
| 47.5° | 1739.4 | 1724.2 | 1727.5 | 1813.3 | 1901.3 | 1960.5 | 1939.3 | 1890.4 | 1811.1 | 1741.6 | 1725.8 |
| 50° | 1848.6 | 1831.2 | 1836.1 | 1926.3 | 2021.4 | 2077.3 | 2044.7 | 1972.5 | 1885.0 | 1817.1 | 1803.5 |
| 52.5° | 1957.3 | 1936.6 | 1949.1 | 2034.4 | 2132.7 | 2177.3 | 2117.0 | 2029.5 | 1944.8 | 1877.4 | 1862.2 |
| 55° | 2082.2 | 2060.5 | 2046.9 | 2138.1 | 2235.4 | 2253.9 | 2171.3 | 2069.2 | 1968.7 | 1892.1 | 1882.8 |
| 57.5° | 2196.3 | 2177.8 | 2152.3 | 2243.5 | 2315.2 | 2301.7 | 2213.1 | 2058.3 | 1910.5 | 1812.2 | 1799.2 |
| 60° | 2298.4 | 2282.6 | 2260.4 | 2338.1 | 2370.6 | 2340.2 | 2179.4 | 1929.5 | 1767.1 | 1664.5 | 1658.5 |
| 62.5° | 2392.4 | 2375.5 | 2354.9 | 2421.2 | 2416.8 | 2346.2 | 2026.2 | 1731.8 | 1514.5 | 1404.2 | 1394.5 |
| 65° | 2466.8 | 2451.6 | 2445.6 | 2497.8 | 2490.7 | 2229.4 | 1787.8 | 1408.0 | 1106.6 | 982.2 | 978.4 |
| 67.5° | 2488.0 | 2482.0 | 2514.1 | 2602.6 | 2492.3 | 1994.7 | 1402.1 | 933.8 | 594.3 | 476.4 | 469.3 |
| 70° | 2408.7 | 2408.1 | 2499.9 | 2626.5 | 2266.3 | 1523.8 | 827.3 | 421.0 | 298.8 | 265.1 | 260.7 |
| 72.5° | 2305.5 | 2303.8 | 2376.6 | 2265.8 | 1680.7 | 833.9 | 348.2 | 225.4 | 186.9 | 177.6 | 177.6 |
| 75° | 2136.0 | 2131.6 | 2186.5 | 1723.7 | 945.2 | 314.0 | 184.7 | 154.8 | 146.7 | 145.0 | 145.0 |
| 77.5° | 1741.0 | 1704.7 | 1618.3 | 1065.3 | 329.7 | 154.3 | 122.2 | 121.7 | 116.8 | 116.3 | 116.3 |
| 80° | 572.6 | 572.6 | 665.5 | 406.3 | 145.6 | 95.1 | 86.4 | 90.7 | 85.8 | 82.6 | 82.0 |
| 82.5° | 93.4 | 128.7 | 183.1 | 116.3 | 78.8 | 59.2 | 53.2 | 56.5 | 59.2 | 47.3 | 47.3 |
| 85° | 36.9 | 48.3 | 70.6 | 54.3 | 36.4 | 23.9 | 25.5 | 28.2 | 25.0 | 21.7 | 21.2 |
| 87.5° | 14.1 | 17.4 | 25.0 | 13.0 | 7.6 | 4.3 | 2.7 | 2.7 | 2.2 | 2.2 | 2.2 |
| 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)