

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: P631317

Luminaire Tested: GWS-SA1F-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7426.9 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 67.2
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

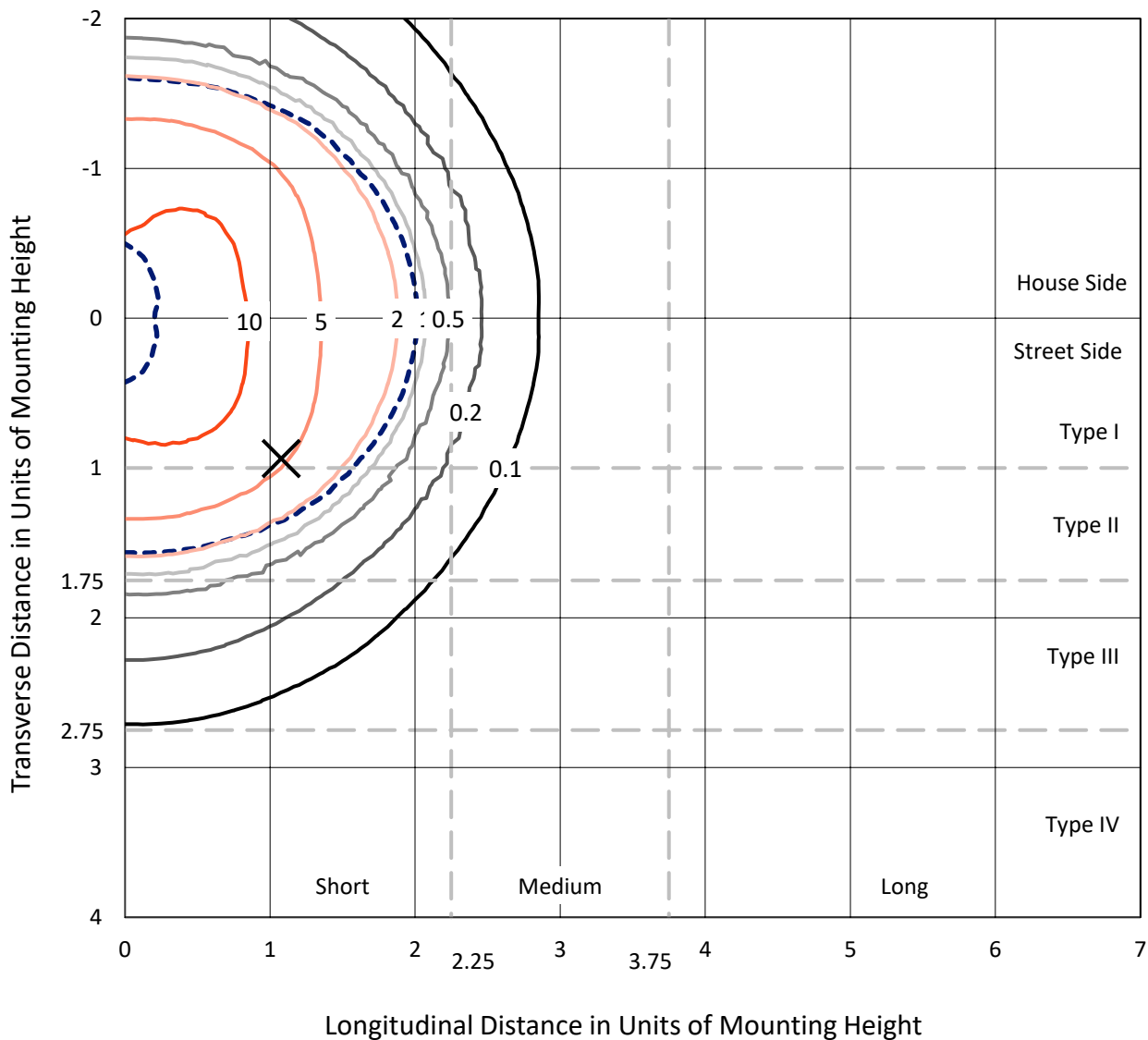


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Iso-Footcandle Lines of Horizontal Illumination

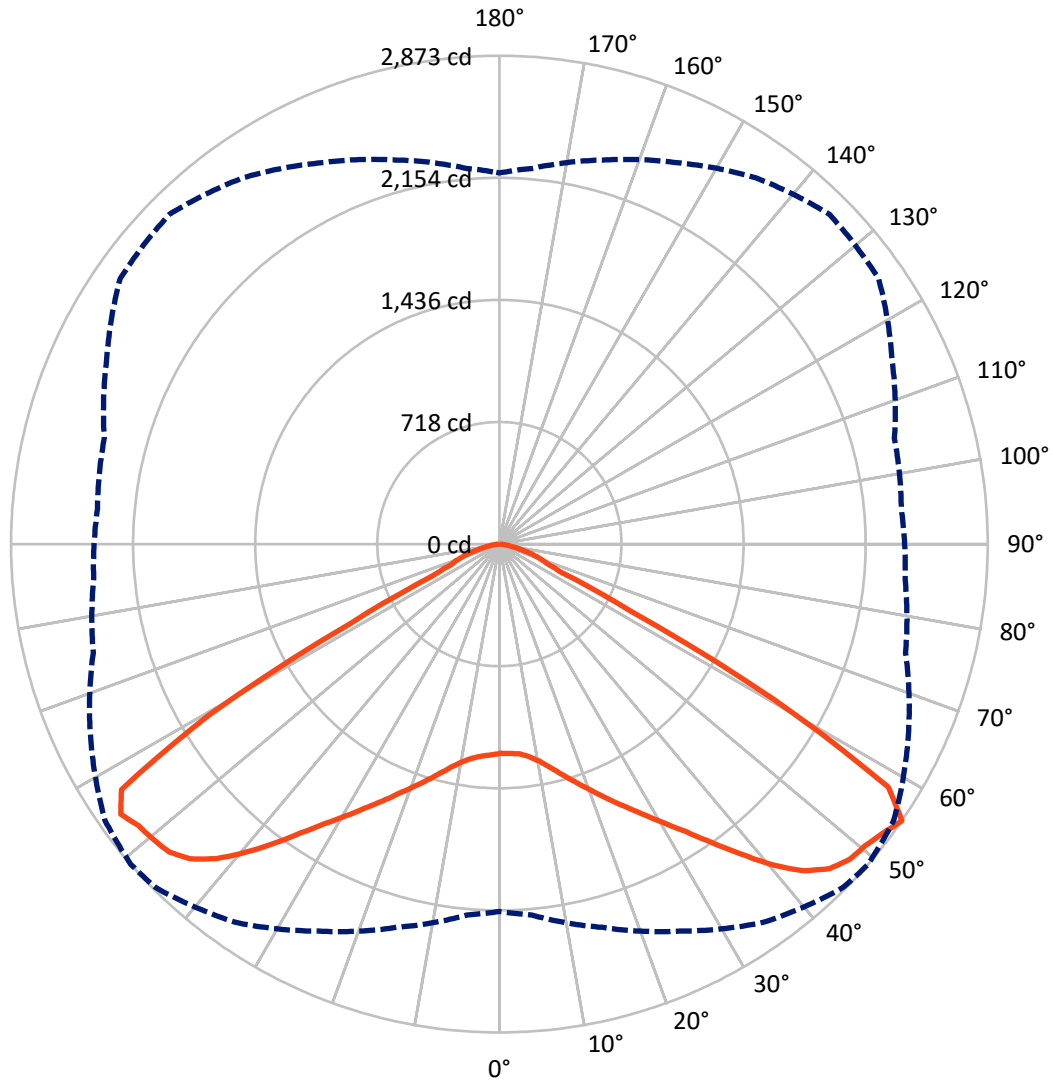
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3677.0 | 0.0 | 3677.0 |
| | % Fixture | 49.5 | 0.0 | 49.5 |
| Street Side | Lumens | 3749.9 | 0.0 | 3749.9 |
| | % Fixture | 50.5 | 0.0 | 50.5 |
| Total | Lumens | 7426.9 | 0.0 | 7426.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 120.0 | 1.6 |
| 10°-20° | 395.9 | 5.3 |
| 20°-30° | 754.0 | 10.2 |
| 30°-40° | 1278.2 | 17.2 |
| 40°-50° | 1923.6 | 25.9 |
| 50°-60° | 2105.6 | 28.4 |
| 60°-70° | 665.8 | 9.0 |
| 70°-80° | 159.8 | 2.2 |
| 80°-90° | 24.0 | 0.3 |
| 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° | 7426.9 | 100.0 |
| 0°-180° | 7426.9 | 100.0 |

Coefficient of Utilization



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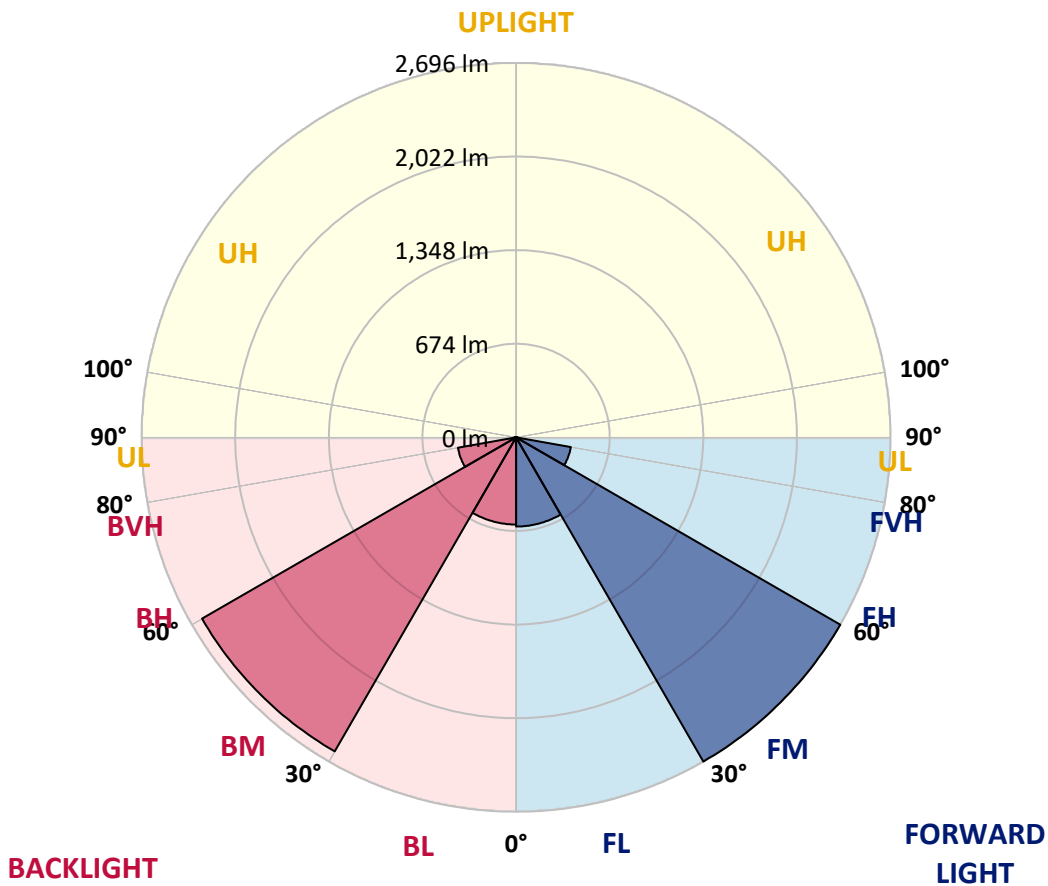
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 642.1 | 8.6 | | | |
| FM (30°-60°) | 2696.2 | 36.3 | | | |
| FH (60°-80°) | 400.5 | 5.4 | | | G0/660 |
| FVH (80°-90°) | 11.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 627.8 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 2611.3 | 35.2 | B3/5000 | | |
| BH (60°-80°) | 425.1 | 5.7 | B1/500 | | G0/660 |
| BVH (80°-90°) | 12.9 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 49° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 |
| 2.5° | 1212.2 | 1213.4 | 1215.8 | 1220.0 | 1224.3 | 1230.3 | 1232.7 | 1235.7 | 1235.1 | 1238.8 | 1238.8 |
| 5° | 1206.2 | 1208.0 | 1211.6 | 1217.6 | 1224.9 | 1236.4 | 1239.4 | 1246.6 | 1253.9 | 1262.9 | 1265.9 |
| 7.5° | 1213.4 | 1215.8 | 1220.0 | 1229.7 | 1240.6 | 1255.7 | 1261.7 | 1273.8 | 1287.7 | 1304.0 | 1310.6 |
| 10° | 1227.3 | 1230.3 | 1237.6 | 1253.3 | 1270.8 | 1293.7 | 1299.2 | 1314.3 | 1336.6 | 1359.0 | 1372.2 |
| 12.5° | 1243.0 | 1247.8 | 1261.1 | 1285.9 | 1311.8 | 1342.0 | 1350.5 | 1369.2 | 1393.4 | 1422.4 | 1440.5 |
| 15° | 1261.1 | 1265.3 | 1285.9 | 1320.9 | 1361.4 | 1401.2 | 1410.9 | 1429.0 | 1456.2 | 1484.6 | 1510.0 |
| 17.5° | 1299.2 | 1306.4 | 1330.6 | 1371.0 | 1418.1 | 1465.3 | 1476.1 | 1496.7 | 1518.4 | 1540.8 | 1564.9 |
| 20° | 1351.1 | 1357.1 | 1388.0 | 1438.1 | 1493.6 | 1536.5 | 1547.4 | 1565.5 | 1575.8 | 1587.3 | 1607.8 |
| 22.5° | 1403.0 | 1411.5 | 1446.5 | 1505.7 | 1571.0 | 1617.5 | 1625.9 | 1642.8 | 1635.6 | 1632.0 | 1645.2 |
| 25° | 1467.7 | 1479.2 | 1513.6 | 1578.2 | 1644.6 | 1702.0 | 1708.7 | 1723.2 | 1711.1 | 1692.4 | 1691.8 |
| 27.5° | 1548.0 | 1558.3 | 1593.9 | 1660.3 | 1726.2 | 1786.0 | 1798.7 | 1818.0 | 1791.4 | 1768.5 | 1752.2 |
| 30° | 1643.4 | 1650.1 | 1689.3 | 1760.0 | 1827.6 | 1884.4 | 1900.7 | 1920.1 | 1900.1 | 1862.1 | 1845.8 |
| 32.5° | 1754.6 | 1763.6 | 1808.9 | 1883.2 | 1943.6 | 2000.4 | 2016.7 | 2040.9 | 2019.1 | 1976.2 | 1955.7 |
| 35° | 1888.0 | 1897.1 | 1944.8 | 2025.8 | 2087.4 | 2145.9 | 2157.4 | 2177.4 | 2150.2 | 2100.6 | 2084.3 |
| 37.5° | 2033.0 | 2044.5 | 2104.9 | 2181.6 | 2246.2 | 2314.5 | 2315.1 | 2321.1 | 2282.4 | 2220.8 | 2202.7 |
| 40° | 2196.1 | 2211.2 | 2271.6 | 2351.3 | 2429.2 | 2484.8 | 2484.2 | 2467.3 | 2402.0 | 2306.6 | 2278.8 |
| 42.5° | 2357.3 | 2369.4 | 2430.4 | 2512.6 | 2590.5 | 2643.0 | 2627.3 | 2586.3 | 2492.0 | 2362.2 | 2325.3 |
| 45° | 2473.9 | 2483.0 | 2547.0 | 2639.4 | 2718.5 | 2751.1 | 2722.8 | 2673.2 | 2545.8 | 2397.2 | 2342.8 |
| 47.5° | 2528.9 | 2541.0 | 2605.6 | 2697.4 | 2786.8 | 2805.5 | 2771.7 | 2725.2 | 2577.2 | 2429.8 | 2356.7 |
| 50° | 2499.3 | 2515.0 | 2588.1 | 2673.2 | 2774.1 | 2812.7 | 2788.6 | 2742.1 | 2610.4 | 2461.8 | 2381.5 |
| 52.5° | 2422.6 | 2437.7 | 2530.1 | 2633.4 | 2747.5 | 2824.2 | 2823.6 | 2785.6 | 2648.5 | 2470.9 | 2382.7 |
| 55° | 2160.4 | 2190.0 | 2333.8 | 2512.0 | 2714.9 | 2858.0 | 2872.5 | 2832.1 | 2654.5 | 2473.3 | 2395.4 |
| 57.5° | 1406.1 | 1458.0 | 1594.5 | 1826.4 | 2233.5 | 2599.5 | 2697.4 | 2707.0 | 2611.0 | 2463.0 | 2397.8 |
| 60° | 587.1 | 628.7 | 736.9 | 890.9 | 1227.3 | 1662.8 | 1852.4 | 2042.7 | 2272.2 | 2355.5 | 2375.5 |
| 62.5° | 364.8 | 368.4 | 379.3 | 414.3 | 526.7 | 739.3 | 861.3 | 1039.5 | 1380.7 | 1671.2 | 1805.3 |
| 65° | 329.2 | 331.0 | 333.4 | 331.0 | 336.4 | 362.4 | 395.0 | 457.2 | 596.1 | 740.5 | 912.0 |
| 67.5° | 289.9 | 292.3 | 294.1 | 292.3 | 294.1 | 295.3 | 299.0 | 304.4 | 329.8 | 350.3 | 366.0 |
| 70° | 234.3 | 238.0 | 241.0 | 239.8 | 247.0 | 247.0 | 250.7 | 254.9 | 267.6 | 282.7 | 293.5 |
| 72.5° | 178.8 | 175.8 | 179.4 | 180.6 | 187.2 | 190.9 | 196.3 | 201.1 | 215.6 | 224.7 | 238.6 |
| 75° | 116.0 | 112.9 | 118.4 | 121.4 | 130.5 | 135.3 | 140.1 | 145.0 | 155.2 | 161.3 | 174.6 |
| 77.5° | 62.8 | 62.2 | 67.6 | 71.9 | 81.5 | 87.6 | 91.2 | 94.8 | 103.3 | 105.1 | 113.5 |
| 80° | 36.2 | 36.2 | 39.9 | 42.9 | 48.9 | 55.6 | 59.2 | 62.2 | 68.2 | 70.1 | 73.7 |
| 82.5° | 19.9 | 19.9 | 21.7 | 23.6 | 28.4 | 32.0 | 35.0 | 37.4 | 42.9 | 44.7 | 46.5 |
| 85° | 9.7 | 9.1 | 10.3 | 11.5 | 13.3 | 15.1 | 16.9 | 18.1 | 22.3 | 23.6 | 26.0 |
| 87.5° | 1.2 | 1.2 | 1.2 | 1.8 | 2.4 | 3.6 | 4.2 | 4.2 | 6.6 | 7.9 | 9.1 |
| 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-SA1F-740-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 | 1230.3 |
| 2.5° | 1242.4 | 1234.5 | 1239.4 | 1241.2 | 1241.2 | 1239.4 | 1231.5 | 1229.1 | 1225.5 | 1220.0 | 1220.0 |
| 5° | 1270.2 | 1264.1 | 1265.3 | 1262.3 | 1255.1 | 1246.0 | 1231.5 | 1224.3 | 1218.2 | 1211.6 | 1211.0 |
| 7.5° | 1317.9 | 1310.0 | 1308.8 | 1297.4 | 1278.0 | 1258.7 | 1237.0 | 1223.7 | 1214.6 | 1206.2 | 1205.5 |
| 10° | 1380.1 | 1372.9 | 1363.8 | 1340.8 | 1312.5 | 1284.1 | 1254.5 | 1236.4 | 1223.1 | 1211.0 | 1210.4 |
| 12.5° | 1449.6 | 1441.1 | 1424.2 | 1390.4 | 1354.7 | 1326.9 | 1293.1 | 1265.3 | 1245.4 | 1229.1 | 1226.1 |
| 15° | 1525.1 | 1513.0 | 1484.0 | 1444.1 | 1409.1 | 1379.5 | 1343.3 | 1303.4 | 1273.2 | 1247.2 | 1244.2 |
| 17.5° | 1583.0 | 1567.3 | 1535.9 | 1498.5 | 1469.5 | 1439.9 | 1392.8 | 1342.7 | 1299.2 | 1266.5 | 1261.7 |
| 20° | 1622.9 | 1610.2 | 1574.6 | 1546.8 | 1529.9 | 1503.9 | 1449.0 | 1392.2 | 1343.3 | 1302.2 | 1299.8 |
| 22.5° | 1659.7 | 1644.6 | 1609.6 | 1593.3 | 1593.3 | 1575.8 | 1523.2 | 1456.2 | 1398.8 | 1351.1 | 1345.1 |
| 25° | 1701.4 | 1685.1 | 1658.5 | 1656.7 | 1665.2 | 1657.3 | 1593.9 | 1522.0 | 1455.0 | 1401.2 | 1391.6 |
| 27.5° | 1759.4 | 1741.3 | 1725.6 | 1736.4 | 1748.5 | 1740.1 | 1669.4 | 1586.1 | 1515.4 | 1461.0 | 1452.6 |
| 30° | 1851.8 | 1829.5 | 1815.0 | 1828.3 | 1851.8 | 1827.0 | 1750.3 | 1662.2 | 1590.9 | 1531.1 | 1526.9 |
| 32.5° | 1959.3 | 1933.9 | 1918.9 | 1940.0 | 1961.1 | 1922.5 | 1846.4 | 1761.8 | 1686.9 | 1624.1 | 1616.9 |
| 35° | 2088.6 | 2056.6 | 2034.2 | 2062.6 | 2084.3 | 2046.3 | 1970.8 | 1890.5 | 1807.1 | 1741.9 | 1732.2 |
| 37.5° | 2203.3 | 2164.7 | 2149.6 | 2189.4 | 2218.4 | 2193.7 | 2111.5 | 2036.0 | 1944.8 | 1873.6 | 1869.3 |
| 40° | 2286.7 | 2248.6 | 2237.8 | 2303.6 | 2354.3 | 2348.3 | 2274.6 | 2188.2 | 2102.5 | 2020.3 | 2012.5 |
| 42.5° | 2322.9 | 2296.3 | 2298.8 | 2387.5 | 2466.1 | 2504.7 | 2438.9 | 2346.5 | 2263.7 | 2178.6 | 2173.1 |
| 45° | 2330.8 | 2314.5 | 2333.8 | 2444.9 | 2548.2 | 2627.3 | 2571.2 | 2493.8 | 2400.2 | 2318.1 | 2315.7 |
| 47.5° | 2339.2 | 2330.2 | 2359.8 | 2477.5 | 2600.1 | 2691.9 | 2660.5 | 2580.8 | 2486.0 | 2405.7 | 2399.6 |
| 50° | 2359.2 | 2355.5 | 2388.7 | 2500.5 | 2624.9 | 2709.5 | 2673.8 | 2594.7 | 2497.5 | 2418.3 | 2403.8 |
| 52.5° | 2365.2 | 2359.2 | 2406.9 | 2536.1 | 2666.0 | 2708.9 | 2632.2 | 2528.9 | 2431.0 | 2342.8 | 2327.7 |
| 55° | 2383.9 | 2373.0 | 2405.7 | 2549.4 | 2722.8 | 2743.9 | 2629.7 | 2475.1 | 2338.6 | 2218.4 | 2182.8 |
| 57.5° | 2388.7 | 2376.7 | 2397.8 | 2527.7 | 2661.1 | 2642.4 | 2311.4 | 1997.4 | 1740.1 | 1606.6 | 1621.7 |
| 60° | 2362.8 | 2366.4 | 2330.2 | 2315.7 | 2134.5 | 1884.4 | 1415.1 | 1131.3 | 888.5 | 785.8 | 808.1 |
| 62.5° | 1798.7 | 1813.8 | 1689.9 | 1469.5 | 1130.1 | 895.7 | 592.5 | 460.2 | 389.6 | 371.4 | 374.5 |
| 65° | 907.8 | 928.3 | 799.7 | 661.4 | 491.6 | 397.4 | 343.7 | 332.8 | 329.2 | 324.9 | 324.9 |
| 67.5° | 359.4 | 365.4 | 360.6 | 337.6 | 314.1 | 305.6 | 303.2 | 302.0 | 297.8 | 295.3 | 296.0 |
| 70° | 288.7 | 293.5 | 286.3 | 271.8 | 262.1 | 261.5 | 260.3 | 257.9 | 254.9 | 254.9 | 256.7 |
| 72.5° | 235.6 | 240.4 | 230.1 | 221.1 | 213.8 | 208.4 | 205.4 | 203.5 | 199.3 | 199.3 | 201.1 |
| 75° | 173.3 | 176.4 | 167.9 | 166.7 | 158.8 | 153.4 | 148.6 | 146.2 | 140.7 | 138.3 | 140.1 |
| 77.5° | 115.4 | 114.8 | 110.5 | 110.5 | 107.5 | 100.9 | 95.4 | 90.0 | 82.7 | 77.9 | 79.1 |
| 80° | 74.9 | 74.9 | 73.1 | 73.1 | 70.1 | 64.6 | 58.0 | 52.5 | 48.3 | 44.7 | 44.7 |
| 82.5° | 47.7 | 47.1 | 46.5 | 45.9 | 44.7 | 39.3 | 34.4 | 30.8 | 27.8 | 25.4 | 26.0 |
| 85° | 26.6 | 26.6 | 25.4 | 25.4 | 23.0 | 19.9 | 17.5 | 15.1 | 13.3 | 12.7 | 12.7 |
| 87.5° | 9.1 | 9.1 | 8.5 | 8.5 | 7.2 | 5.4 | 4.2 | 3.6 | 3.0 | 2.4 | 3.0 |
| 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)