

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: P632776

Luminaire Tested: GWS-SA2D-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632776
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-SA2D-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7111.3 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

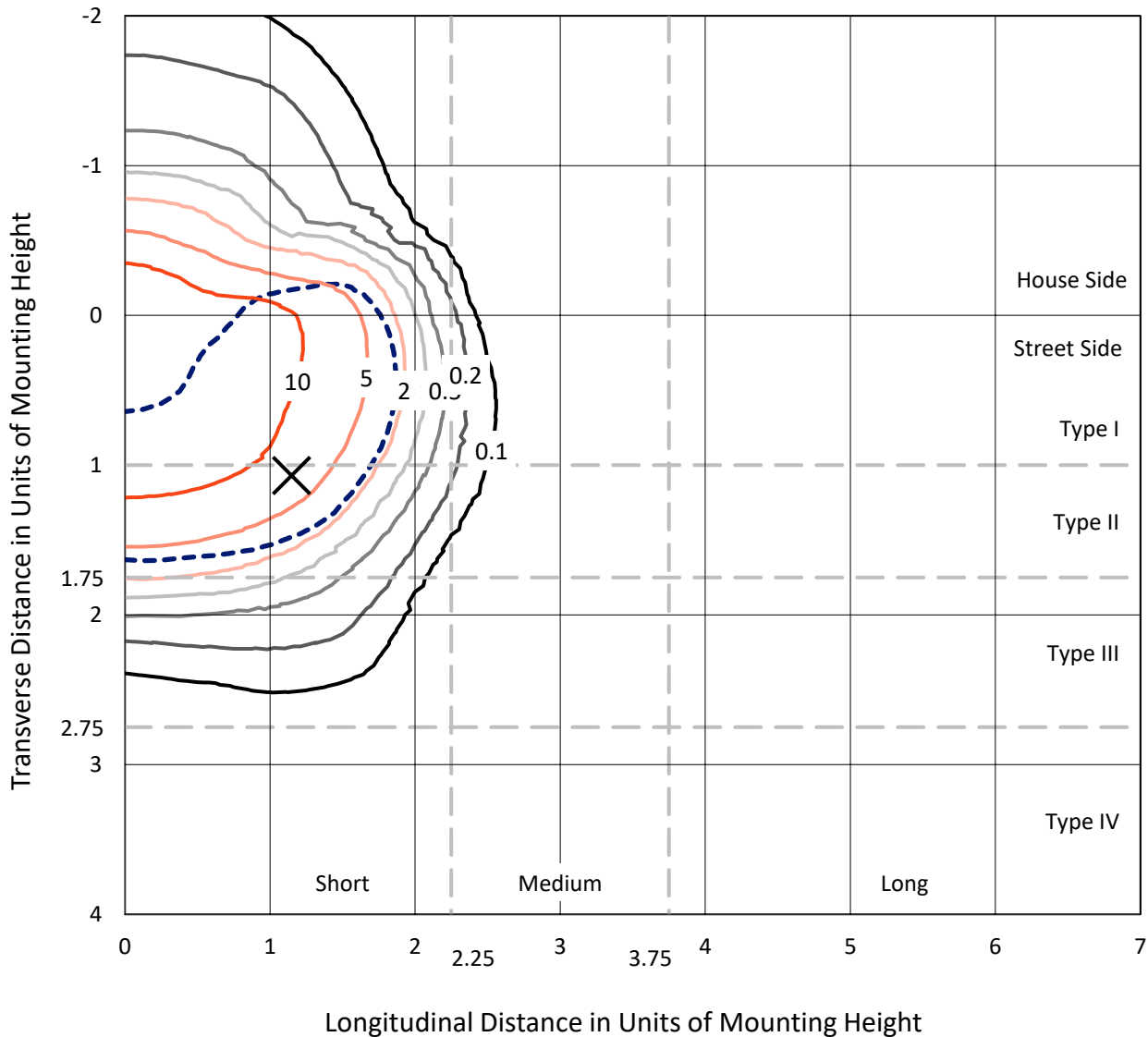
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

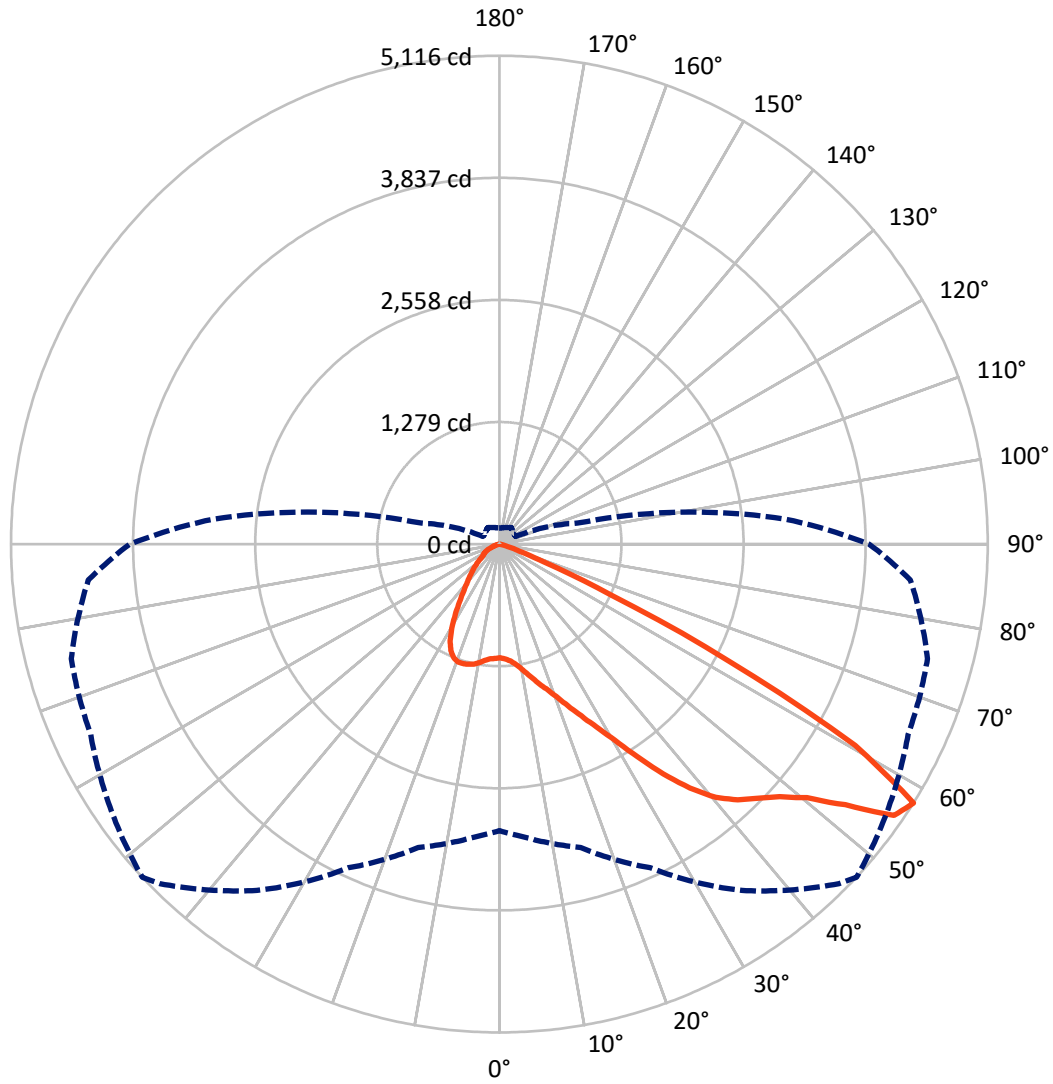
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 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 | 1542.8 | 0.0 | 1542.8 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 5568.5 | 0.0 | 5568.5 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 7111.3 | 0.0 | 7111.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.4 | 1.7 |
| 10°-20° | 399.6 | 5.6 |
| 20°-30° | 742.0 | 10.4 |
| 30°-40° | 1187.8 | 16.7 |
| 40°-50° | 1736.3 | 24.4 |
| 50°-60° | 2142.9 | 30.1 |
| 60°-70° | 716.0 | 10.1 |
| 70°-80° | 66.7 | 0.9 |
| 80°-90° | 1.4 | 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° | 7111.3 | 100.0 |
| 0°-180° | 7111.3 | 100.0 |

Coefficient of Utilization



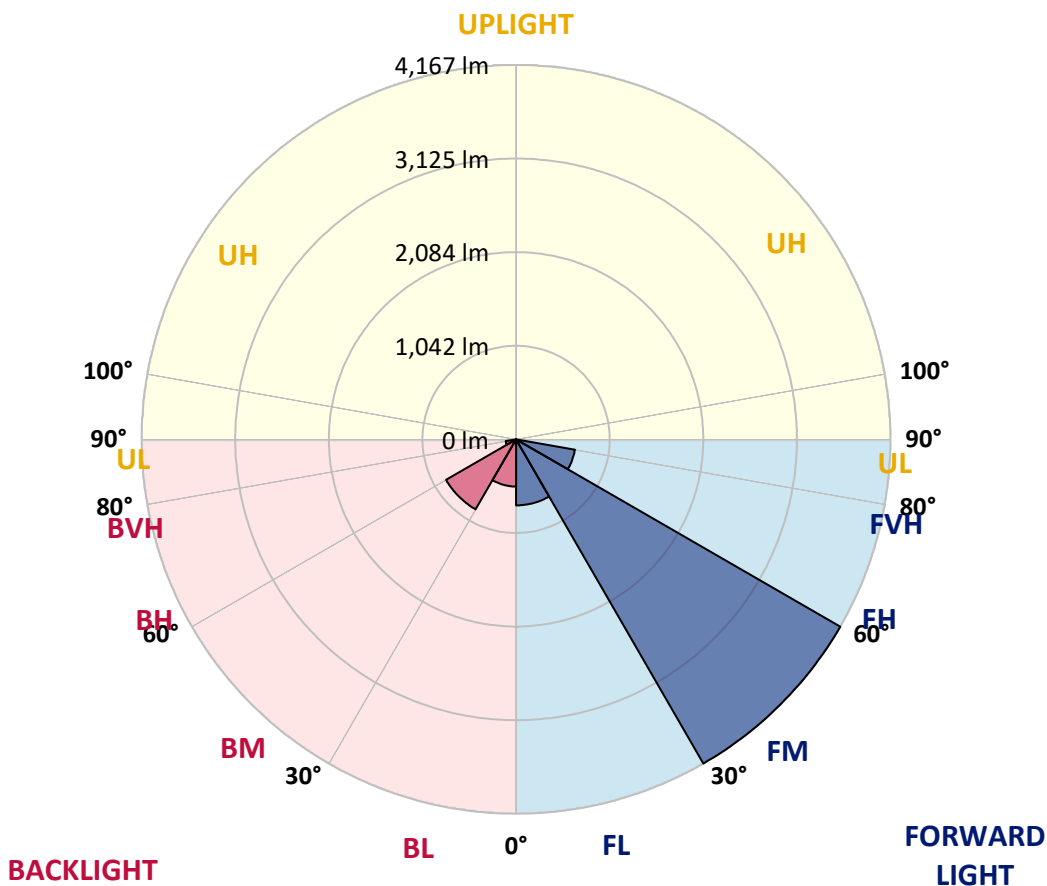
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 734.9 | 10.3 | | | |
| FM (30°-60°) | 4167.2 | 58.6 | | | |
| FH (60°-80°) | 665.5 | 9.4 | | | G1/1800 |
| FVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 525.1 | 7.4 | B2/1000 | | |
| BM (30°-60°) | 899.9 | 12.7 | B1/1000 | | |
| BH (60°-80°) | 117.3 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.4 | 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° | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 |
| 2.5° | 1202.8 | 1202.0 | 1201.2 | 1206.1 | 1204.5 | 1203.6 | 1205.3 | 1205.3 | 1205.3 | 1200.3 | 1190.4 |
| 5° | 1231.7 | 1231.7 | 1230.9 | 1235.8 | 1231.7 | 1229.2 | 1230.1 | 1230.1 | 1226.8 | 1217.7 | 1205.3 |
| 7.5° | 1277.1 | 1275.5 | 1273.8 | 1278.8 | 1274.6 | 1273.8 | 1275.5 | 1270.5 | 1264.7 | 1249.9 | 1232.5 |
| 10° | 1342.3 | 1342.3 | 1339.9 | 1344.8 | 1341.5 | 1339.9 | 1339.9 | 1336.6 | 1325.8 | 1302.7 | 1277.1 |
| 12.5° | 1432.3 | 1428.2 | 1422.4 | 1418.3 | 1416.6 | 1415.8 | 1416.6 | 1411.7 | 1400.1 | 1370.4 | 1334.9 |
| 15° | 1530.6 | 1527.3 | 1518.2 | 1511.6 | 1502.5 | 1500.8 | 1505.8 | 1501.7 | 1490.1 | 1449.7 | 1399.3 |
| 17.5° | 1654.4 | 1658.5 | 1635.4 | 1621.4 | 1595.0 | 1593.3 | 1595.0 | 1601.6 | 1593.3 | 1541.3 | 1467.8 |
| 20° | 1760.1 | 1763.4 | 1746.0 | 1736.1 | 1712.2 | 1701.5 | 1704.8 | 1715.5 | 1706.4 | 1645.3 | 1542.9 |
| 22.5° | 1873.2 | 1877.3 | 1859.1 | 1838.5 | 1827.8 | 1827.8 | 1840.1 | 1855.0 | 1842.6 | 1762.5 | 1628.8 |
| 25° | 2008.6 | 2011.9 | 1997.0 | 1969.8 | 1950.8 | 1974.7 | 1992.9 | 2032.5 | 2011.9 | 1902.9 | 1730.3 |
| 27.5° | 2163.8 | 2164.6 | 2143.1 | 2115.1 | 2105.1 | 2149.7 | 2167.9 | 2229.0 | 2220.7 | 2060.6 | 1837.7 |
| 30° | 2329.7 | 2330.5 | 2325.6 | 2306.6 | 2297.5 | 2356.1 | 2380.9 | 2469.2 | 2463.4 | 2256.2 | 1983.8 |
| 32.5° | 2502.2 | 2502.2 | 2511.3 | 2509.7 | 2520.4 | 2616.2 | 2655.8 | 2756.5 | 2750.7 | 2495.6 | 2165.4 |
| 35° | 2675.6 | 2676.4 | 2692.1 | 2731.7 | 2776.3 | 2903.4 | 2955.5 | 3077.6 | 3064.4 | 2782.1 | 2397.4 |
| 37.5° | 2872.9 | 2864.6 | 2886.1 | 2945.6 | 3044.6 | 3191.6 | 3241.1 | 3357.5 | 3342.6 | 3075.2 | 2700.4 |
| 40° | 3110.7 | 3095.8 | 3095.8 | 3165.1 | 3277.4 | 3446.7 | 3488.8 | 3546.6 | 3496.2 | 3312.1 | 2997.6 |
| 42.5° | 3373.2 | 3359.2 | 3341.0 | 3402.1 | 3496.2 | 3628.3 | 3663.0 | 3647.3 | 3606.0 | 3535.8 | 3336.0 |
| 45° | 3639.0 | 3617.5 | 3629.9 | 3667.1 | 3721.6 | 3784.3 | 3797.5 | 3724.9 | 3705.9 | 3725.7 | 3615.9 |
| 47.5° | 3841.3 | 3826.4 | 3857.0 | 3909.0 | 3953.5 | 3962.6 | 3953.5 | 3852.8 | 3851.2 | 3921.3 | 3809.9 |
| 50° | 3909.0 | 3910.6 | 3994.8 | 4108.7 | 4180.6 | 4188.0 | 4175.6 | 4060.0 | 4044.4 | 4065.0 | 3914.7 |
| 52.5° | 3915.6 | 3922.2 | 4045.2 | 4262.3 | 4458.0 | 4547.1 | 4537.2 | 4412.6 | 4259.0 | 4236.7 | 4073.3 |
| 55° | 3756.2 | 3795.0 | 3966.8 | 4283.8 | 4699.8 | 4984.7 | 5017.7 | 4779.1 | 4551.2 | 4532.3 | 4414.2 |
| 57.5° | 3002.5 | 3081.8 | 3289.0 | 3740.6 | 4429.9 | 5030.1 | 5115.9 | 4944.2 | 4723.8 | 4642.9 | 4322.6 |
| 60° | 1794.7 | 1893.0 | 2091.9 | 2645.9 | 3371.5 | 4134.3 | 4282.1 | 4306.1 | 4204.5 | 3970.9 | 3316.2 |
| 62.5° | 770.2 | 762.0 | 1007.2 | 1431.5 | 2005.3 | 2627.7 | 2694.6 | 2798.6 | 2886.9 | 2642.6 | 2012.7 |
| 65° | 264.2 | 287.3 | 399.6 | 645.6 | 1003.9 | 1220.2 | 1279.6 | 1372.9 | 1498.4 | 1236.7 | 737.2 |
| 67.5° | 163.5 | 173.4 | 230.3 | 381.4 | 541.6 | 533.3 | 506.9 | 492.0 | 478.8 | 327.7 | 202.3 |
| 70° | 118.9 | 127.1 | 161.8 | 262.5 | 364.1 | 255.9 | 222.1 | 180.0 | 199.8 | 184.1 | 143.6 |
| 72.5° | 80.1 | 86.7 | 111.4 | 159.3 | 186.6 | 124.7 | 115.6 | 131.3 | 158.5 | 151.1 | 117.2 |
| 75° | 47.9 | 52.0 | 63.6 | 77.6 | 76.0 | 64.4 | 65.2 | 92.5 | 121.4 | 113.1 | 83.4 |
| 77.5° | 33.0 | 34.7 | 42.1 | 50.4 | 37.1 | 19.8 | 18.2 | 25.6 | 41.3 | 41.3 | 28.1 |
| 80° | 8.3 | 10.7 | 10.7 | 6.6 | 5.8 | 5.0 | 5.0 | 7.4 | 11.6 | 8.3 | 4.1 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 1.7 | 1.7 | 1.7 |
| 85° | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 1.7 | 1.7 |
| 87.5° | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.7 | 1.7 |
| 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° | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 | 1190.4 |
| 2.5° | 1196.2 | 1186.3 | 1192.9 | 1191.3 | 1196.2 | 1197.9 | 1190.4 | 1188.8 | 1189.6 | 1179.7 | 1176.4 |
| 5° | 1207.8 | 1196.2 | 1199.5 | 1196.2 | 1202.0 | 1207.0 | 1204.5 | 1207.8 | 1211.9 | 1204.5 | 1201.2 |
| 7.5° | 1232.5 | 1221.0 | 1220.2 | 1215.2 | 1223.5 | 1226.8 | 1225.9 | 1235.0 | 1243.3 | 1238.3 | 1233.4 |
| 10° | 1275.5 | 1259.8 | 1258.1 | 1254.0 | 1256.5 | 1259.0 | 1249.9 | 1251.5 | 1259.0 | 1253.2 | 1250.7 |
| 12.5° | 1328.3 | 1309.3 | 1305.2 | 1295.3 | 1295.3 | 1282.9 | 1263.1 | 1259.0 | 1264.7 | 1260.6 | 1256.5 |
| 15° | 1385.3 | 1359.7 | 1353.1 | 1335.7 | 1319.2 | 1296.1 | 1275.5 | 1270.5 | 1274.6 | 1269.7 | 1266.4 |
| 17.5° | 1448.8 | 1419.9 | 1398.5 | 1367.9 | 1331.6 | 1304.4 | 1281.2 | 1270.5 | 1263.9 | 1254.0 | 1253.2 |
| 20° | 1511.6 | 1473.6 | 1437.3 | 1388.6 | 1340.7 | 1299.4 | 1261.4 | 1233.4 | 1209.4 | 1194.6 | 1188.8 |
| 22.5° | 1584.2 | 1528.1 | 1469.5 | 1401.0 | 1332.4 | 1269.7 | 1202.8 | 1154.9 | 1113.7 | 1099.6 | 1093.0 |
| 25° | 1661.8 | 1589.2 | 1501.7 | 1412.5 | 1304.4 | 1203.6 | 1112.8 | 1041.8 | 987.4 | 969.2 | 961.8 |
| 27.5° | 1747.7 | 1647.8 | 1534.7 | 1410.0 | 1246.6 | 1109.5 | 989.0 | 900.7 | 847.0 | 830.5 | 836.3 |
| 30° | 1856.7 | 1723.7 | 1576.0 | 1384.4 | 1159.9 | 977.4 | 836.3 | 762.0 | 721.5 | 705.8 | 706.7 |
| 32.5° | 2002.0 | 1832.7 | 1636.2 | 1330.0 | 1048.4 | 827.2 | 703.4 | 648.9 | 621.6 | 601.0 | 599.3 |
| 35° | 2210.0 | 1998.7 | 1692.4 | 1242.4 | 913.1 | 693.5 | 603.5 | 560.5 | 522.6 | 498.6 | 502.8 |
| 37.5° | 2459.3 | 2207.5 | 1722.9 | 1124.4 | 761.2 | 589.4 | 528.4 | 484.6 | 441.7 | 406.2 | 410.3 |
| 40° | 2754.9 | 2480.8 | 1720.4 | 969.2 | 622.5 | 518.4 | 465.6 | 414.4 | 360.8 | 328.6 | 331.9 |
| 42.5° | 3084.2 | 2739.2 | 1666.8 | 804.9 | 516.0 | 460.7 | 405.3 | 341.0 | 288.9 | 269.1 | 270.0 |
| 45° | 3369.9 | 2948.9 | 1572.7 | 634.8 | 434.2 | 404.5 | 342.6 | 276.6 | 253.4 | 239.4 | 238.6 |
| 47.5° | 3581.2 | 3102.4 | 1438.1 | 499.5 | 368.2 | 353.3 | 281.5 | 247.7 | 229.5 | 217.9 | 216.3 |
| 50° | 3699.3 | 3156.1 | 1289.5 | 391.3 | 311.2 | 299.7 | 251.8 | 224.5 | 212.2 | 204.7 | 203.1 |
| 52.5° | 3857.8 | 3220.5 | 1183.0 | 308.8 | 260.9 | 245.2 | 232.0 | 208.9 | 200.6 | 194.8 | 192.4 |
| 55° | 4108.7 | 3345.1 | 1090.5 | 245.2 | 217.1 | 213.8 | 218.8 | 199.8 | 194.8 | 185.7 | 182.4 |
| 57.5° | 3872.6 | 3005.0 | 847.0 | 189.9 | 183.3 | 195.7 | 211.3 | 190.7 | 178.3 | 170.1 | 166.8 |
| 60° | 2725.1 | 1997.8 | 426.0 | 152.7 | 163.5 | 183.3 | 199.0 | 172.5 | 160.2 | 161.8 | 160.2 |
| 62.5° | 1502.5 | 999.7 | 191.5 | 128.0 | 142.0 | 161.8 | 170.1 | 149.4 | 141.2 | 155.2 | 157.7 |
| 65° | 491.2 | 340.1 | 110.6 | 99.1 | 112.3 | 132.1 | 146.9 | 142.0 | 140.3 | 156.9 | 161.8 |
| 67.5° | 151.1 | 112.3 | 75.1 | 71.0 | 77.6 | 97.4 | 123.8 | 153.6 | 165.1 | 170.1 | 172.5 |
| 70° | 113.1 | 88.3 | 64.4 | 60.3 | 63.6 | 74.3 | 104.8 | 128.0 | 120.5 | 121.4 | 119.7 |
| 72.5° | 90.8 | 70.2 | 55.3 | 52.8 | 52.8 | 51.2 | 55.3 | 69.3 | 78.4 | 82.6 | 82.6 |
| 75° | 63.6 | 49.5 | 42.1 | 38.8 | 30.5 | 24.8 | 22.3 | 22.3 | 19.8 | 19.0 | 18.2 |
| 77.5° | 21.5 | 18.2 | 16.5 | 13.2 | 9.1 | 7.4 | 6.6 | 5.8 | 4.1 | 2.5 | 1.7 |
| 80° | 3.3 | 2.5 | 1.7 | 1.7 | 1.7 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 0.8 | 0.8 | 0.8 | 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)