

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: P629940

Luminaire Tested: GWS-SA1C-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4938.1 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

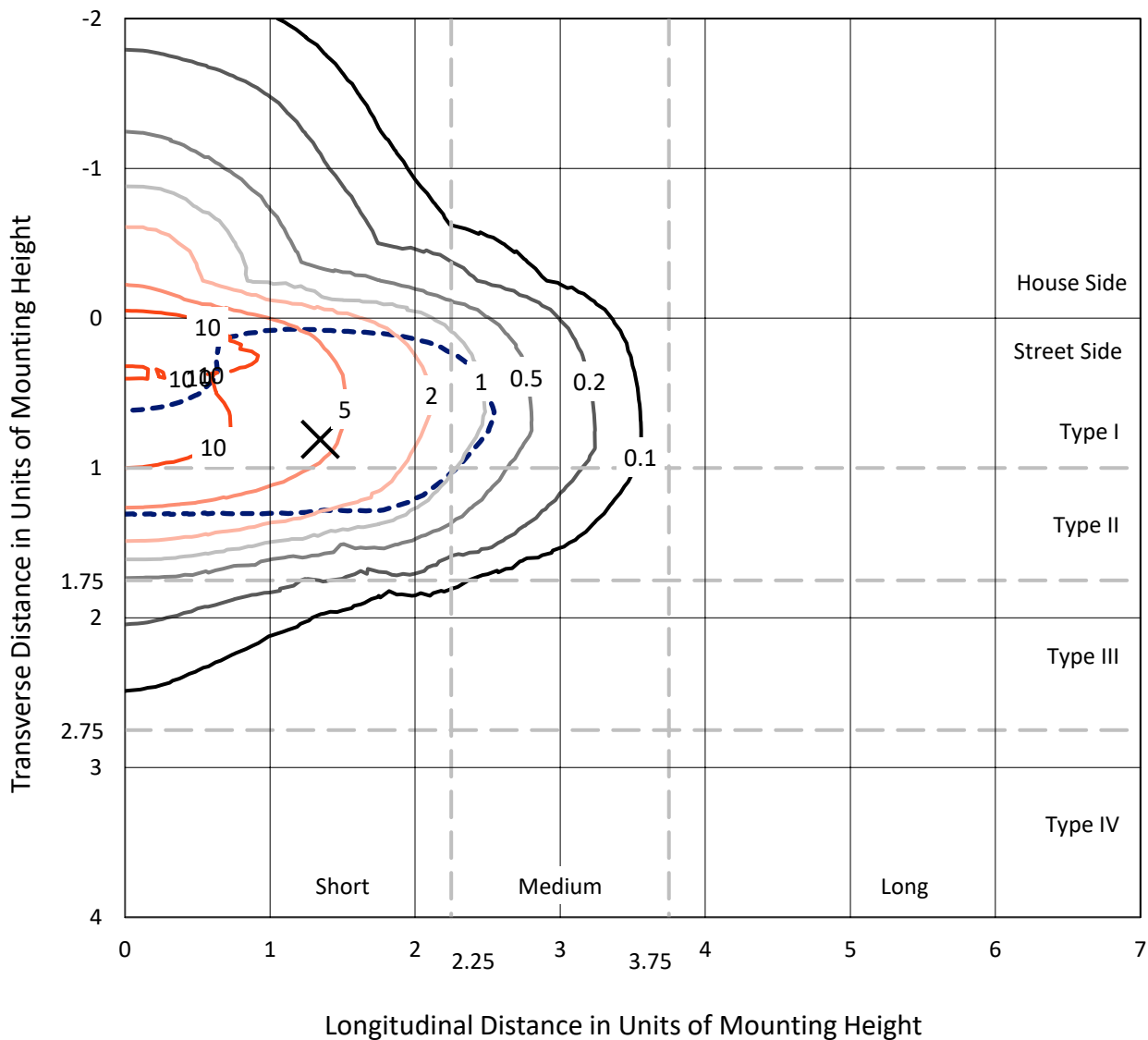
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

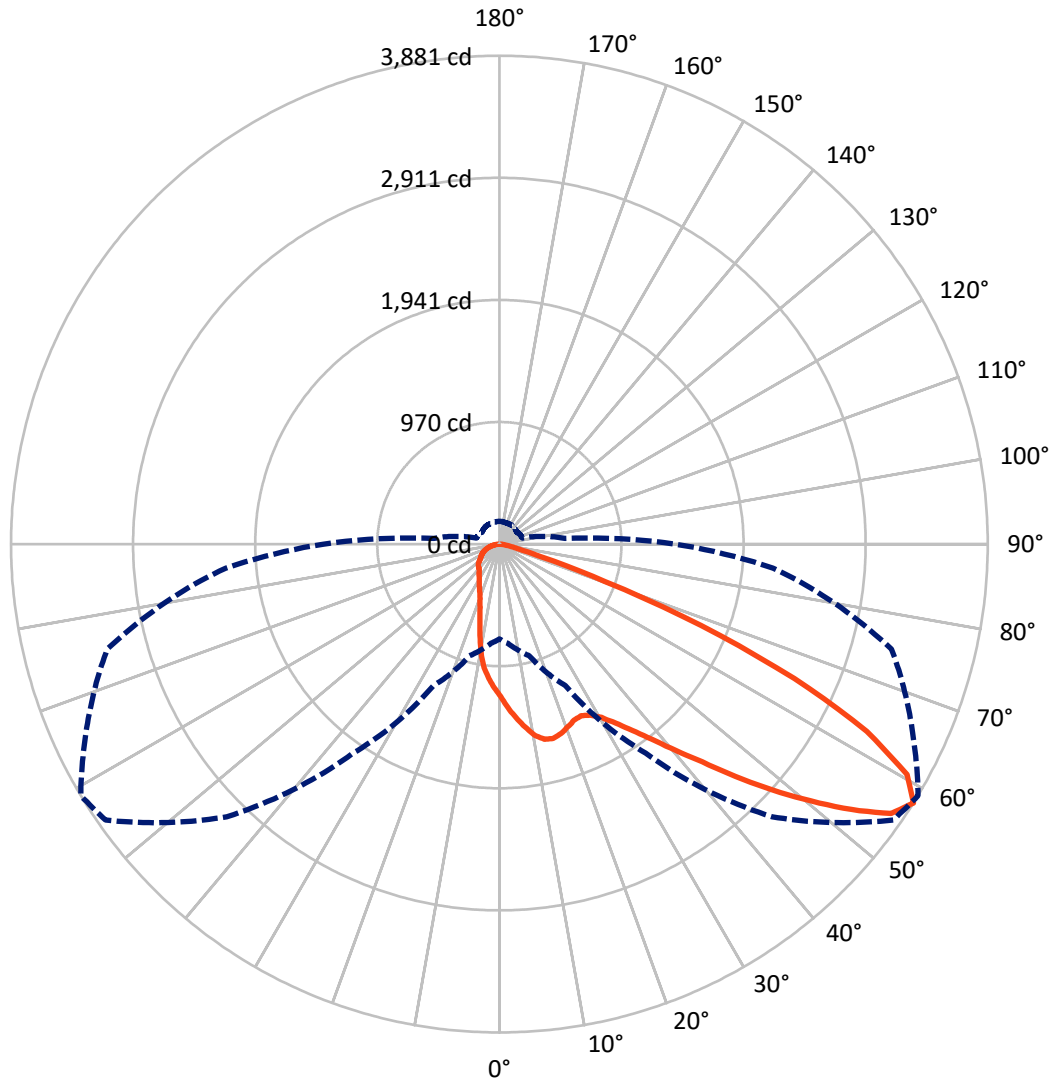
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 766.4 | 0.0 | 766.4 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 4171.7 | 0.0 | 4171.7 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 4938.1 | 0.0 | 4938.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.6 | 2.3 |
| 10°-20° | 285.2 | 5.8 |
| 20°-30° | 462.3 | 9.4 |
| 30°-40° | 743.7 | 15.1 |
| 40°-50° | 1154.9 | 23.4 |
| 50°-60° | 1244.0 | 25.2 |
| 60°-70° | 722.0 | 14.6 |
| 70°-80° | 188.5 | 3.8 |
| 80°-90° | 24.8 | 0.5 |
| 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° | 4938.1 | 100.0 |
| 0°-180° | 4938.1 | 100.0 |

Coefficient of Utilization



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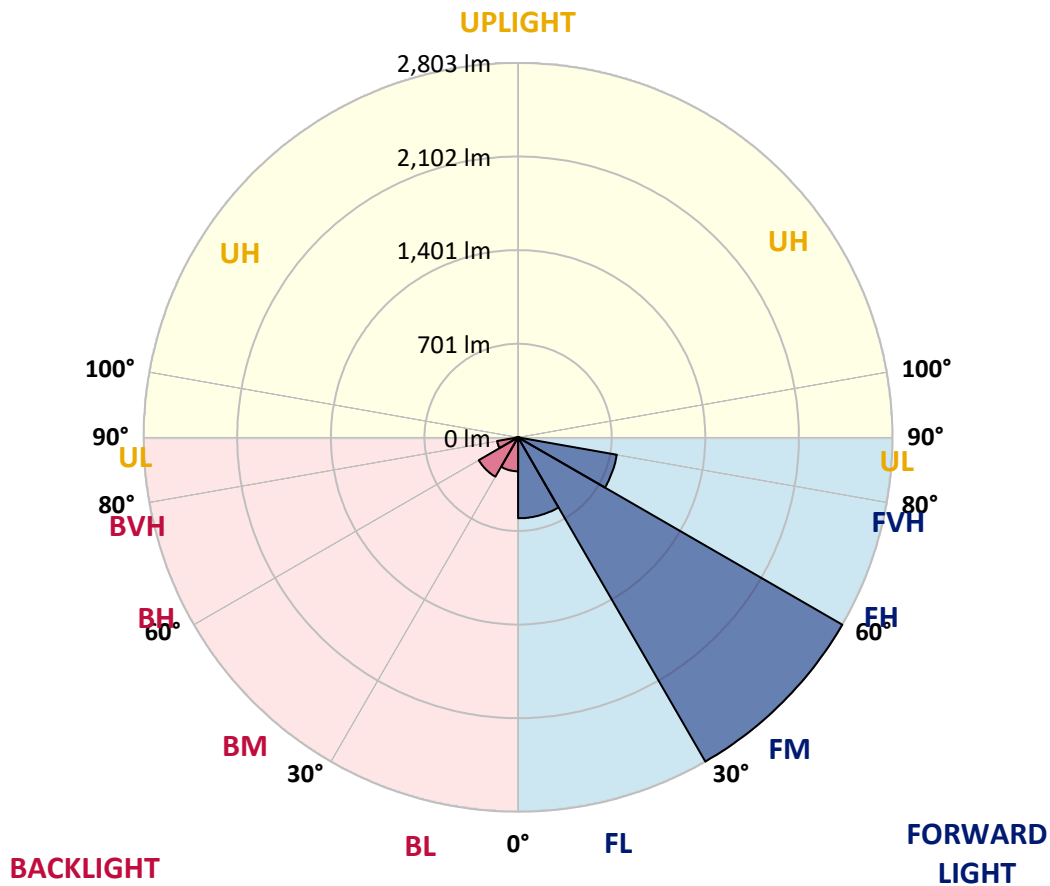
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 605.9 | 12.3 | | | |
| FM (30°-60°) | 2802.9 | 56.8 | | | |
| FH (60°-80°) | 751.1 | 15.2 | | | G1/1800 |
| FVH (80°-90°) | 11.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 254.2 | 5.1 | B1/500 | | |
| BM (30°-60°) | 339.8 | 6.9 | B1/1000 | | |
| BH (60°-80°) | 159.4 | 3.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 |
| 2.5° | 1374.9 | 1363.4 | 1371.4 | 1357.2 | 1351.3 | 1335.6 | 1315.5 | 1301.9 | 1281.0 | 1253.9 | 1230.3 |
| 5° | 1511.5 | 1503.5 | 1505.3 | 1490.0 | 1476.4 | 1450.3 | 1409.0 | 1386.0 | 1350.6 | 1296.0 | 1245.2 |
| 7.5° | 1507.3 | 1516.7 | 1521.9 | 1535.2 | 1539.0 | 1536.5 | 1499.4 | 1467.4 | 1428.4 | 1346.4 | 1269.9 |
| 10° | 1351.3 | 1369.0 | 1385.0 | 1430.2 | 1485.1 | 1554.6 | 1563.3 | 1544.2 | 1504.9 | 1410.7 | 1299.5 |
| 12.5° | 1181.3 | 1194.8 | 1209.1 | 1263.3 | 1347.4 | 1486.5 | 1580.7 | 1592.5 | 1576.9 | 1474.3 | 1332.8 |
| 15° | 1097.8 | 1104.1 | 1117.6 | 1153.5 | 1220.5 | 1374.9 | 1550.5 | 1602.3 | 1630.4 | 1541.8 | 1370.4 |
| 17.5° | 1094.4 | 1097.1 | 1103.7 | 1122.9 | 1169.4 | 1288.7 | 1495.9 | 1582.8 | 1672.5 | 1613.0 | 1414.2 |
| 20° | 1166.3 | 1159.0 | 1154.8 | 1154.5 | 1177.4 | 1259.8 | 1443.0 | 1551.5 | 1692.3 | 1686.0 | 1461.1 |
| 22.5° | 1266.1 | 1268.5 | 1259.5 | 1237.2 | 1234.5 | 1280.3 | 1416.6 | 1519.9 | 1698.2 | 1750.7 | 1504.6 |
| 25° | 1407.6 | 1419.7 | 1393.0 | 1350.6 | 1329.7 | 1339.8 | 1433.0 | 1510.1 | 1697.5 | 1804.6 | 1531.7 |
| 27.5° | 1572.7 | 1582.1 | 1555.0 | 1499.4 | 1456.2 | 1431.9 | 1481.6 | 1539.0 | 1703.4 | 1851.2 | 1548.0 |
| 30° | 1760.8 | 1763.9 | 1726.7 | 1668.3 | 1605.4 | 1553.2 | 1562.6 | 1598.4 | 1733.7 | 1912.3 | 1567.1 |
| 32.5° | 1990.6 | 2003.8 | 1947.5 | 1855.0 | 1767.0 | 1700.3 | 1671.4 | 1694.4 | 1799.0 | 1984.7 | 1596.7 |
| 35° | 2282.2 | 2286.7 | 2215.1 | 2082.7 | 1958.2 | 1865.8 | 1805.3 | 1817.4 | 1898.4 | 2085.8 | 1641.2 |
| 37.5° | 2557.2 | 2561.7 | 2485.6 | 2362.5 | 2184.5 | 2058.0 | 1970.4 | 1964.8 | 2025.7 | 2228.7 | 1713.8 |
| 40° | 2731.7 | 2744.6 | 2710.5 | 2633.3 | 2463.3 | 2292.7 | 2173.8 | 2154.6 | 2192.5 | 2403.6 | 1815.0 |
| 42.5° | 2825.6 | 2831.1 | 2830.4 | 2840.5 | 2739.4 | 2569.7 | 2403.2 | 2365.0 | 2390.3 | 2592.3 | 1917.2 |
| 45° | 2826.3 | 2840.2 | 2877.4 | 2974.4 | 2978.9 | 2873.2 | 2693.1 | 2633.3 | 2610.0 | 2782.5 | 2023.9 |
| 47.5° | 2699.7 | 2714.7 | 2816.9 | 3007.7 | 3148.5 | 3172.5 | 3040.4 | 2920.5 | 2822.5 | 2946.2 | 2111.5 |
| 50° | 2316.6 | 2354.2 | 2548.9 | 2886.4 | 3181.9 | 3412.4 | 3371.7 | 3209.0 | 3011.2 | 3072.7 | 2166.5 |
| 52.5° | 1984.0 | 1982.6 | 2102.5 | 2543.6 | 3042.5 | 3518.1 | 3692.2 | 3505.9 | 3197.9 | 3153.1 | 2180.4 |
| 55° | 1452.8 | 1460.8 | 1583.5 | 1945.4 | 2670.5 | 3415.9 | 3868.5 | 3779.1 | 3412.0 | 3195.8 | 2174.8 |
| 57.5° | 753.3 | 793.0 | 918.8 | 1241.4 | 2029.1 | 3064.1 | 3821.6 | 3881.0 | 3629.7 | 3226.1 | 2182.1 |
| 60° | 380.7 | 373.0 | 418.2 | 592.7 | 1175.7 | 2393.1 | 3532.3 | 3721.8 | 3668.9 | 3249.7 | 2186.6 |
| 62.5° | 254.1 | 252.0 | 239.5 | 274.6 | 480.4 | 1417.3 | 3011.2 | 3276.8 | 3396.1 | 3194.1 | 2128.9 |
| 65° | 220.1 | 215.9 | 192.9 | 191.5 | 233.3 | 587.9 | 2207.1 | 2576.0 | 2806.8 | 2946.9 | 1990.9 |
| 67.5° | 198.2 | 191.9 | 168.6 | 157.1 | 167.6 | 258.3 | 1243.8 | 1727.7 | 2072.6 | 2492.2 | 1688.5 |
| 70° | 176.9 | 173.8 | 150.5 | 133.8 | 132.8 | 157.5 | 458.2 | 891.7 | 1268.2 | 1700.3 | 1234.5 |
| 72.5° | 158.5 | 153.0 | 133.1 | 117.2 | 109.2 | 111.6 | 198.8 | 343.5 | 656.3 | 1060.6 | 738.4 |
| 75° | 137.3 | 133.1 | 115.8 | 99.8 | 90.0 | 81.7 | 121.3 | 158.9 | 299.3 | 504.1 | 348.7 |
| 77.5° | 106.0 | 103.2 | 91.4 | 79.3 | 73.7 | 60.8 | 73.7 | 100.1 | 138.4 | 212.4 | 181.5 |
| 80° | 61.5 | 63.3 | 68.1 | 61.9 | 54.2 | 43.5 | 48.0 | 57.7 | 83.1 | 115.1 | 102.9 |
| 82.5° | 30.9 | 33.0 | 44.1 | 35.8 | 32.3 | 25.4 | 28.5 | 34.1 | 43.5 | 63.6 | 40.3 |
| 85° | 2.4 | 2.4 | 8.0 | 9.0 | 11.1 | 9.0 | 11.5 | 13.9 | 19.8 | 25.4 | 13.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.7 | 3.1 | 5.9 | 3.8 |
| 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° | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 | 1212.2 |
| 2.5° | 1214.3 | 1196.6 | 1175.4 | 1158.0 | 1131.2 | 1117.0 | 1098.9 | 1076.6 | 1067.6 | 1063.4 | 1061.0 |
| 5° | 1216.7 | 1185.4 | 1140.2 | 1098.5 | 1052.3 | 1015.8 | 975.1 | 932.7 | 908.4 | 902.5 | 898.3 |
| 7.5° | 1225.8 | 1182.0 | 1110.0 | 1041.2 | 955.3 | 875.7 | 798.2 | 721.3 | 682.1 | 667.1 | 665.7 |
| 10° | 1238.3 | 1180.6 | 1079.4 | 965.0 | 820.1 | 694.2 | 603.5 | 543.4 | 518.0 | 509.6 | 506.9 |
| 12.5° | 1253.9 | 1179.5 | 1039.1 | 859.4 | 664.0 | 545.1 | 493.3 | 483.6 | 487.0 | 486.3 | 486.3 |
| 15° | 1273.7 | 1180.9 | 990.4 | 739.8 | 537.1 | 473.1 | 474.2 | 485.6 | 496.4 | 498.2 | 498.2 |
| 17.5° | 1295.3 | 1179.5 | 919.8 | 619.8 | 461.0 | 456.1 | 472.1 | 488.1 | 497.8 | 499.2 | 499.2 |
| 20° | 1318.6 | 1172.9 | 830.8 | 506.9 | 427.6 | 445.3 | 462.7 | 475.2 | 481.1 | 482.5 | 482.5 |
| 22.5° | 1332.5 | 1154.1 | 734.2 | 429.0 | 406.4 | 428.3 | 439.8 | 452.6 | 453.3 | 442.2 | 441.8 |
| 25° | 1330.4 | 1119.0 | 624.0 | 378.9 | 383.8 | 402.9 | 417.5 | 408.5 | 397.3 | 391.1 | 390.0 |
| 27.5° | 1317.2 | 1066.2 | 511.7 | 341.0 | 357.0 | 378.6 | 374.1 | 366.4 | 363.6 | 356.7 | 356.0 |
| 30° | 1300.5 | 1001.2 | 410.9 | 311.5 | 329.2 | 349.0 | 342.1 | 341.4 | 338.6 | 330.9 | 330.9 |
| 32.5° | 1284.5 | 934.1 | 334.8 | 289.6 | 311.5 | 312.9 | 322.6 | 323.3 | 321.9 | 308.7 | 307.3 |
| 35° | 1280.0 | 867.0 | 283.3 | 272.2 | 294.1 | 293.4 | 307.3 | 307.0 | 283.0 | 264.6 | 264.2 |
| 37.5° | 1293.6 | 798.9 | 252.7 | 257.9 | 270.1 | 279.2 | 290.3 | 270.1 | 262.1 | 251.0 | 250.3 |
| 40° | 1322.4 | 735.9 | 237.1 | 249.6 | 254.8 | 268.0 | 250.6 | 252.0 | 249.9 | 241.6 | 240.6 |
| 42.5° | 1360.6 | 682.4 | 228.4 | 246.8 | 246.1 | 249.6 | 230.5 | 236.0 | 239.2 | 232.9 | 231.9 |
| 45° | 1397.5 | 635.8 | 223.9 | 236.4 | 239.9 | 219.7 | 215.9 | 221.1 | 226.0 | 223.5 | 222.5 |
| 47.5° | 1424.6 | 595.5 | 221.4 | 222.1 | 231.9 | 209.6 | 203.4 | 205.8 | 211.7 | 212.8 | 212.4 |
| 50° | 1433.0 | 561.1 | 218.7 | 210.3 | 208.2 | 199.5 | 194.7 | 194.0 | 200.9 | 205.8 | 206.5 |
| 52.5° | 1417.0 | 530.5 | 211.4 | 199.9 | 189.8 | 191.2 | 189.5 | 186.0 | 192.9 | 199.5 | 200.2 |
| 55° | 1393.3 | 513.1 | 199.9 | 189.8 | 178.0 | 183.6 | 184.2 | 181.1 | 185.6 | 190.2 | 190.2 |
| 57.5° | 1395.1 | 523.2 | 188.8 | 180.4 | 167.6 | 174.9 | 178.7 | 177.3 | 177.3 | 180.8 | 181.1 |
| 60° | 1406.5 | 537.8 | 181.5 | 168.6 | 157.1 | 164.8 | 173.5 | 172.1 | 169.0 | 173.5 | 173.5 |
| 62.5° | 1373.5 | 518.3 | 176.6 | 157.1 | 146.0 | 155.0 | 165.5 | 164.8 | 161.3 | 168.6 | 169.3 |
| 65° | 1276.2 | 466.2 | 171.0 | 142.9 | 134.9 | 145.3 | 154.4 | 156.8 | 153.7 | 163.4 | 165.1 |
| 67.5° | 1069.7 | 392.1 | 160.3 | 129.3 | 123.8 | 133.5 | 142.2 | 145.7 | 143.2 | 154.7 | 156.1 |
| 70° | 797.5 | 317.4 | 143.2 | 114.4 | 110.2 | 118.9 | 126.9 | 128.3 | 128.6 | 142.2 | 143.6 |
| 72.5° | 508.6 | 246.8 | 120.6 | 97.7 | 94.6 | 101.2 | 107.1 | 112.6 | 115.1 | 127.9 | 127.6 |
| 75° | 283.7 | 183.6 | 97.0 | 82.7 | 77.2 | 82.4 | 89.3 | 95.9 | 102.9 | 121.7 | 123.8 |
| 77.5° | 163.4 | 129.0 | 76.8 | 66.4 | 59.8 | 65.4 | 71.3 | 80.7 | 101.5 | 117.8 | 115.8 |
| 80° | 92.1 | 83.8 | 58.1 | 48.7 | 44.5 | 48.7 | 53.2 | 70.9 | 80.0 | 86.9 | 88.0 |
| 82.5° | 43.1 | 46.9 | 39.6 | 29.9 | 29.9 | 32.7 | 36.8 | 54.9 | 60.5 | 49.4 | 43.1 |
| 85° | 15.6 | 21.2 | 19.5 | 15.3 | 13.6 | 13.2 | 22.9 | 31.3 | 19.5 | 17.4 | 14.9 |
| 87.5° | 4.2 | 5.9 | 5.6 | 3.8 | 2.1 | 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)