

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P527156

Luminaire Tested: **GALN-SA2A-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-830-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6451 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



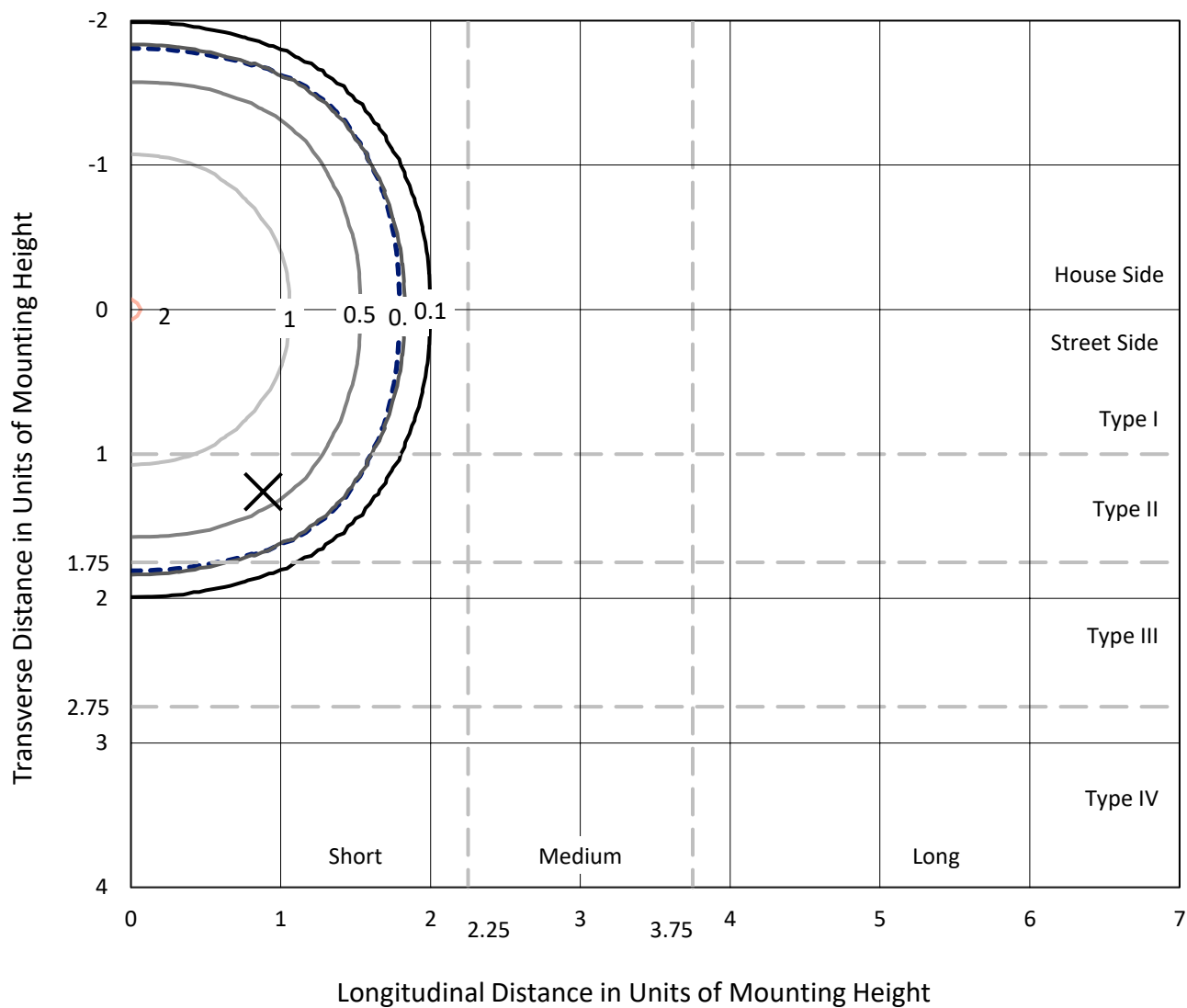
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



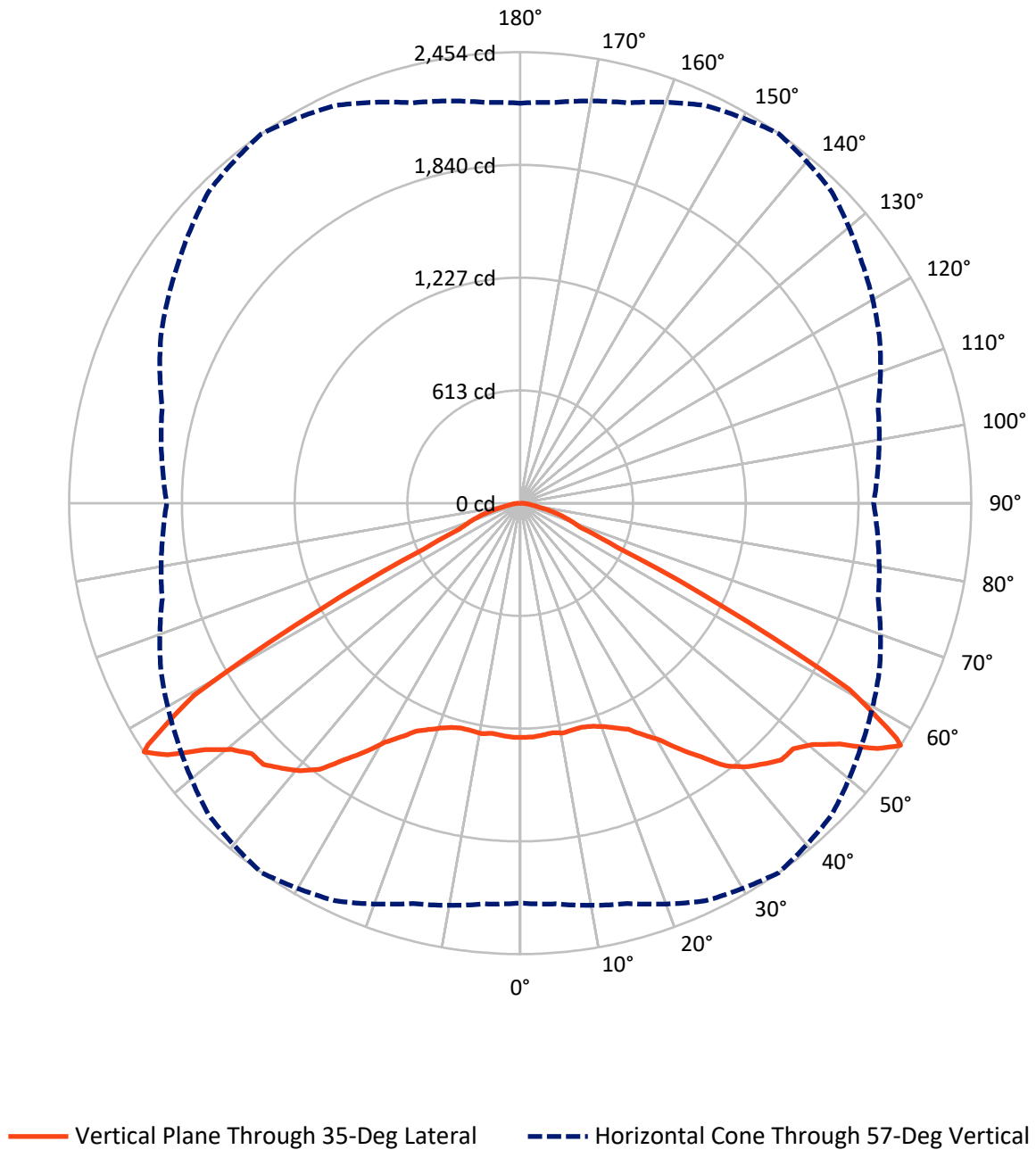
Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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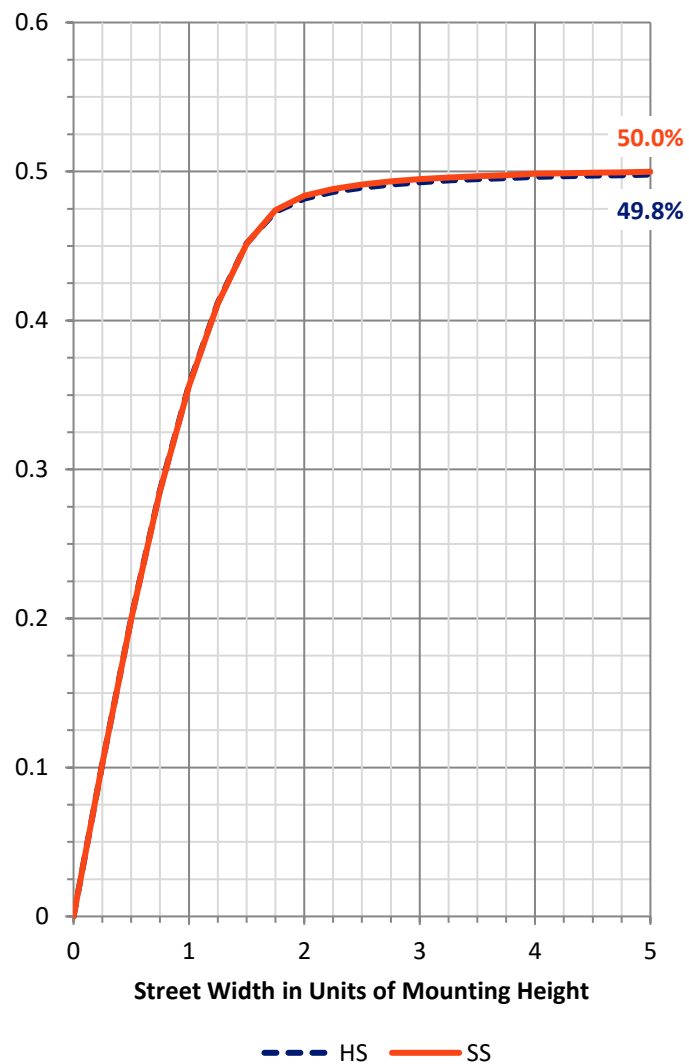
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3225.5   | 0.0    | 3225.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3225.5   | 0.0    | 3225.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6451.0   | 0.0    | 6451.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.8  | 1.9       |
| 10°-20°   | 357.7  | 5.5       |
| 20°-30°   | 624.8  | 9.7       |
| 30°-40°   | 1023.7 | 15.9      |
| 40°-50°   | 1501.0 | 23.3      |
| 50°-60°   | 1890.6 | 29.3      |
| 60°-70°   | 711.0  | 11.0      |
| 70°-80°   | 189.1  | 2.9       |
| 80°-90°   | 32.4   | 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°    | 6451.0 | 100.0     |
| 0°-180°   | 6451.0 | 100.0     |

**Coefficient of Utilization**



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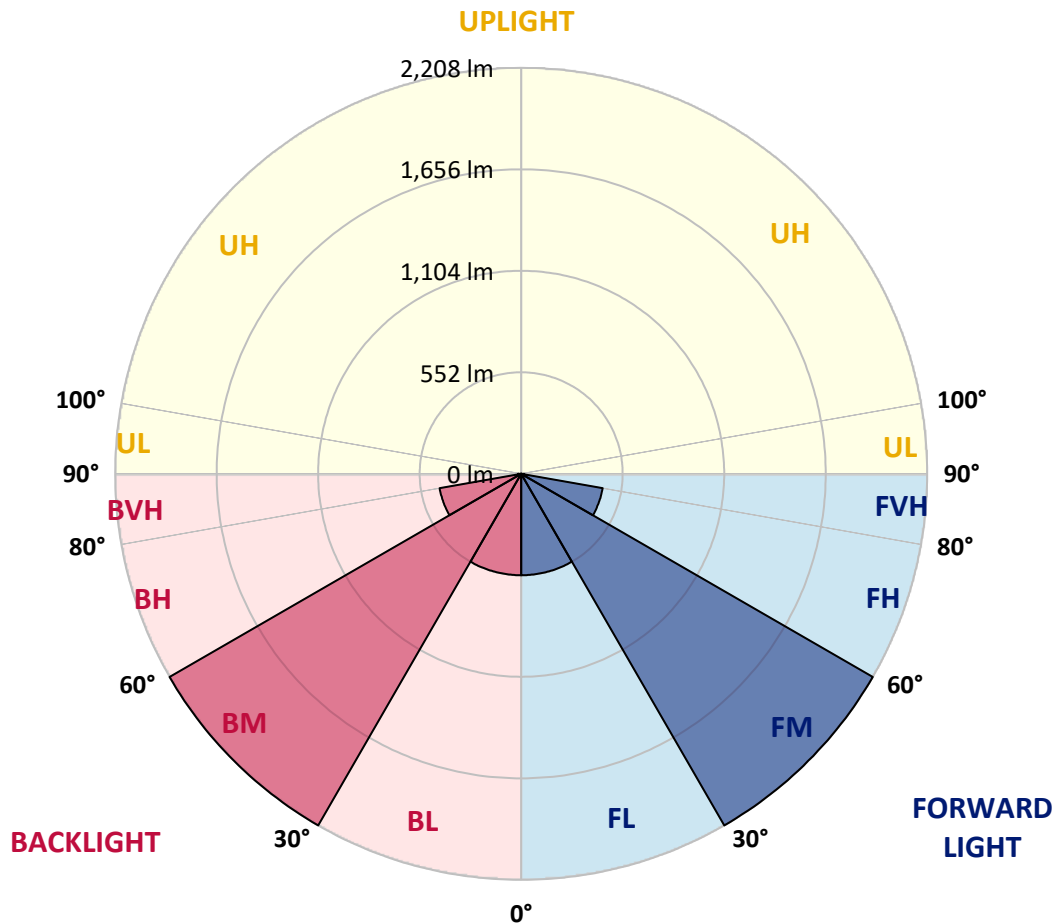
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 551.6  | 8.6       |                         |      |        |
| FM   | (30°-60°)   | 2207.6 | 34.2      |                         |      |        |
| FH   | (60°-80°)   | 450.0  | 7.0       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 16.2   | 0.3       |                         |      | G1/100 |
| BL   | (0°-30°)    | 551.6  | 8.6       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 2207.6 | 34.2      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 450.0  | 7.0       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 16.2   | 0.3       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1274.0 | 1274.0 | 1274.0 | 1274.0 | 1274.0 | 1274.0 | 1274.0 | 1274.0 | 1274.0 | 1274.0 | 1274.0 |
| 2.5°  | 1267.7 | 1280.4 | 1274.8 | 1271.6 | 1274.0 | 1270.1 | 1263.7 | 1270.8 | 1269.3 | 1262.9 | 1260.5 |
| 5°    | 1264.5 | 1274.0 | 1267.7 | 1274.0 | 1267.7 | 1278.8 | 1275.6 | 1263.7 | 1278.0 | 1264.5 | 1269.3 |
| 7.5°  | 1262.1 | 1265.3 | 1266.9 | 1263.7 | 1261.3 | 1274.8 | 1267.7 | 1262.1 | 1254.2 | 1251.8 | 1255.7 |
| 10°   | 1256.5 | 1264.5 | 1252.6 | 1268.5 | 1271.6 | 1262.1 | 1262.1 | 1251.8 | 1245.4 | 1241.4 | 1255.0 |
| 12.5° | 1270.8 | 1257.3 | 1255.7 | 1263.7 | 1266.1 | 1270.1 | 1258.9 | 1253.4 | 1241.4 | 1243.0 | 1240.6 |
| 15°   | 1254.2 | 1259.7 | 1260.5 | 1262.1 | 1264.5 | 1274.0 | 1263.7 | 1251.8 | 1247.0 | 1230.3 | 1231.9 |
| 17.5° | 1260.5 | 1255.0 | 1260.5 | 1278.8 | 1275.6 | 1282.8 | 1271.6 | 1253.4 | 1242.2 | 1232.7 | 1245.4 |
| 20°   | 1271.6 | 1269.3 | 1271.6 | 1293.9 | 1297.9 | 1304.2 | 1294.7 | 1278.0 | 1256.5 | 1245.4 | 1251.8 |
| 22.5° | 1283.6 | 1282.0 | 1283.6 | 1305.0 | 1328.1 | 1336.0 | 1326.5 | 1287.5 | 1276.4 | 1255.7 | 1248.6 |
| 25°   | 1305.0 | 1306.6 | 1323.3 | 1347.1 | 1362.2 | 1377.3 | 1359.9 | 1332.0 | 1296.3 | 1283.6 | 1268.5 |
| 27.5° | 1352.7 | 1356.7 | 1366.2 | 1401.2 | 1427.4 | 1440.9 | 1416.3 | 1378.1 | 1355.9 | 1329.7 | 1325.7 |
| 30°   | 1411.5 | 1411.5 | 1428.2 | 1458.4 | 1494.2 | 1514.8 | 1484.6 | 1439.3 | 1412.3 | 1398.0 | 1389.3 |
| 32.5° | 1489.4 | 1480.7 | 1487.0 | 1540.3 | 1595.9 | 1613.4 | 1572.9 | 1517.2 | 1474.3 | 1455.2 | 1448.9 |
| 35°   | 1556.2 | 1561.7 | 1576.0 | 1633.3 | 1695.3 | 1735.8 | 1672.2 | 1599.9 | 1556.2 | 1538.7 | 1535.5 |
| 37.5° | 1642.8 | 1652.3 | 1659.5 | 1738.2 | 1812.9 | 1828.0 | 1766.8 | 1708.8 | 1655.5 | 1641.2 | 1633.3 |
| 40°   | 1765.2 | 1758.8 | 1761.2 | 1819.2 | 1886.8 | 1896.3 | 1835.9 | 1794.6 | 1750.9 | 1742.1 | 1742.1 |
| 42.5° | 1866.1 | 1859.0 | 1866.9 | 1888.4 | 1940.0 | 1932.9 | 1899.5 | 1869.3 | 1851.0 | 1841.5 | 1851.0 |
| 45°   | 1927.3 | 1925.7 | 1940.0 | 1955.9 | 1992.5 | 1968.7 | 1942.4 | 1947.2 | 1929.7 | 1913.8 | 1913.0 |
| 47.5° | 1994.1 | 1983.8 | 2001.2 | 2025.1 | 1997.3 | 1986.1 | 1984.6 | 1994.9 | 1989.3 | 1961.5 | 1952.8 |
| 50°   | 2026.7 | 2022.7 | 2050.5 | 2078.3 | 2063.2 | 2037.8 | 2043.4 | 2060.1 | 1988.5 | 1951.2 | 1929.7 |
| 52.5° | 2114.1 | 2114.9 | 2168.1 | 2183.2 | 2176.9 | 2139.5 | 2151.5 | 2106.2 | 2021.9 | 1969.5 | 1971.8 |
| 55°   | 2251.6 | 2246.0 | 2305.6 | 2350.2 | 2357.3 | 2309.6 | 2252.4 | 2188.8 | 2083.1 | 2029.9 | 2014.0 |
| 57°   | 2176.1 | 2188.8 | 2254.8 | 2386.7 | 2453.5 | 2397.0 | 2272.3 | 2156.2 | 2015.6 | 1951.2 | 1922.6 |
| 57.5° | 2075.2 | 2095.8 | 2210.3 | 2343.0 | 2412.9 | 2408.2 | 2247.6 | 2095.8 | 1970.2 | 1870.1 | 1872.5 |
| 60°   | 1520.4 | 1524.4 | 1627.7 | 1838.3 | 2056.9 | 2061.6 | 1866.1 | 1665.1 | 1525.2 | 1416.3 | 1431.4 |
| 62.5° | 801.9  | 820.2  | 861.5  | 1030.8 | 1220.0 | 1266.1 | 1147.7 | 1044.3 | 923.5  | 840.9  | 848.8  |
| 65°   | 424.4  | 422.0  | 441.9  | 489.6  | 582.6  | 606.4  | 590.5  | 508.7  | 466.5  | 453.0  | 453.8  |
| 67.5° | 344.9  | 348.9  | 346.5  | 348.9  | 355.3  | 365.6  | 363.2  | 366.4  | 368.8  | 372.7  | 372.0  |
| 70°   | 292.5  | 292.5  | 294.1  | 294.9  | 294.9  | 299.6  | 305.2  | 315.5  | 316.3  | 320.3  | 321.9  |
| 72.5° | 230.5  | 228.9  | 231.3  | 236.8  | 237.6  | 241.6  | 249.6  | 255.9  | 258.3  | 258.3  | 253.5  |
| 75°   | 156.6  | 158.2  | 161.3  | 166.1  | 170.9  | 178.0  | 184.4  | 188.4  | 190.0  | 187.6  | 185.2  |
| 77.5° | 88.2   | 89.8   | 92.2   | 99.3   | 104.9  | 111.3  | 118.4  | 122.4  | 126.4  | 127.2  | 122.4  |
| 80°   | 52.5   | 52.5   | 56.4   | 62.0   | 68.4   | 74.7   | 81.1   | 85.8   | 87.4   | 87.4   | 85.0   |
| 82.5° | 31.8   | 32.6   | 35.8   | 41.3   | 46.9   | 50.9   | 56.4   | 60.4   | 63.6   | 62.8   | 61.2   |
| 85°   | 16.7   | 16.7   | 19.9   | 24.6   | 28.6   | 32.6   | 32.6   | 30.2   | 28.6   | 24.6   | 23.0   |
| 87.5° | 5.6    | 4.8    | 6.4    | 6.4    | 5.6    | 6.4    | 6.4    | 7.2    | 7.2    | 7.2    | 7.2    |
| 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)