

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: STREETWORKS

Report Number: P653689

Luminaire Tested: **GLAN-SA2A-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653689  
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: STREETWORKS  
Catalog Number: GLAN-SA2A-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 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: 6826.4 lumens  
Efficiency: N/A  
Efficacy: 108.4 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

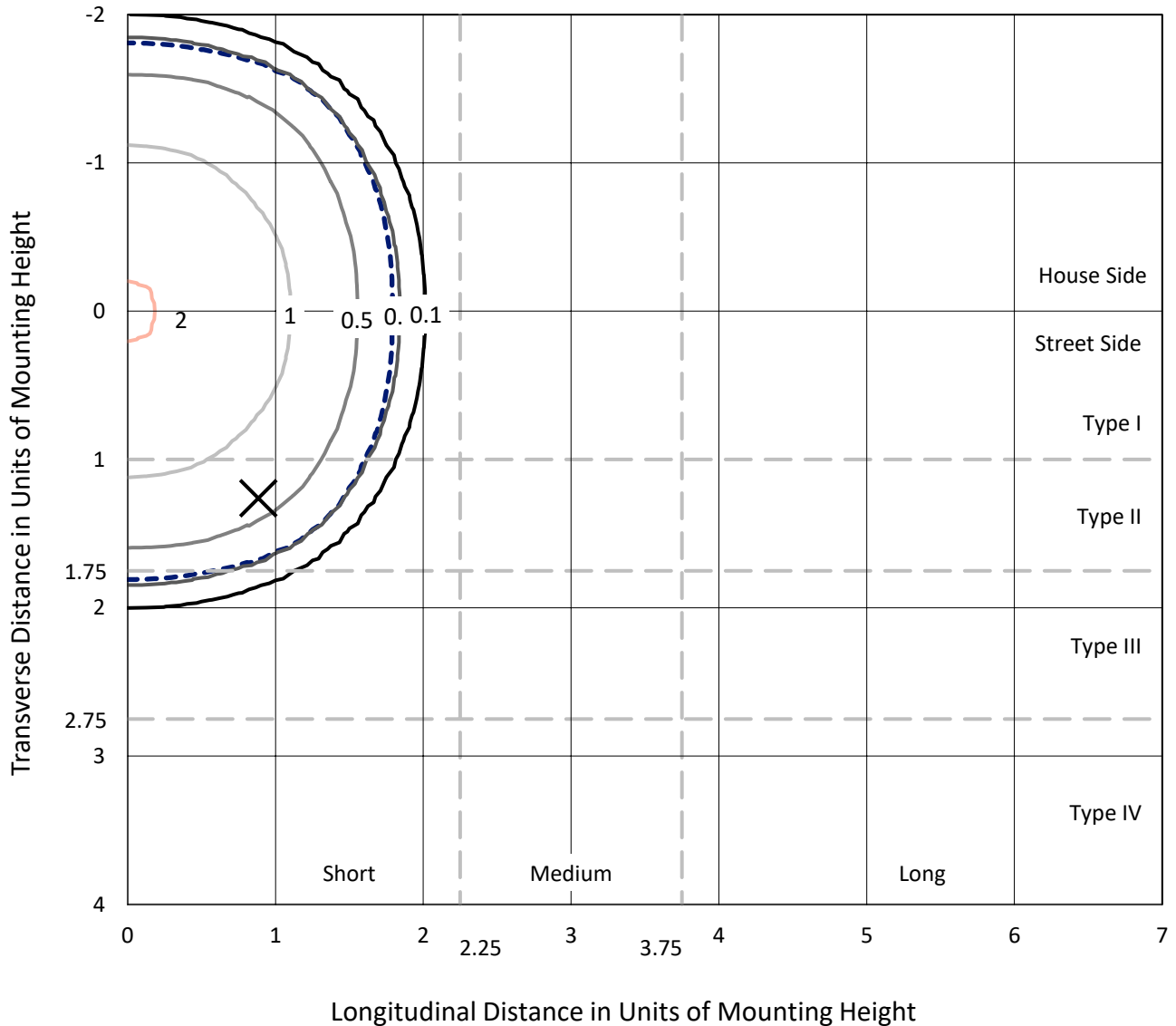




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### Iso-Footcandle Lines of Horizontal Illumination

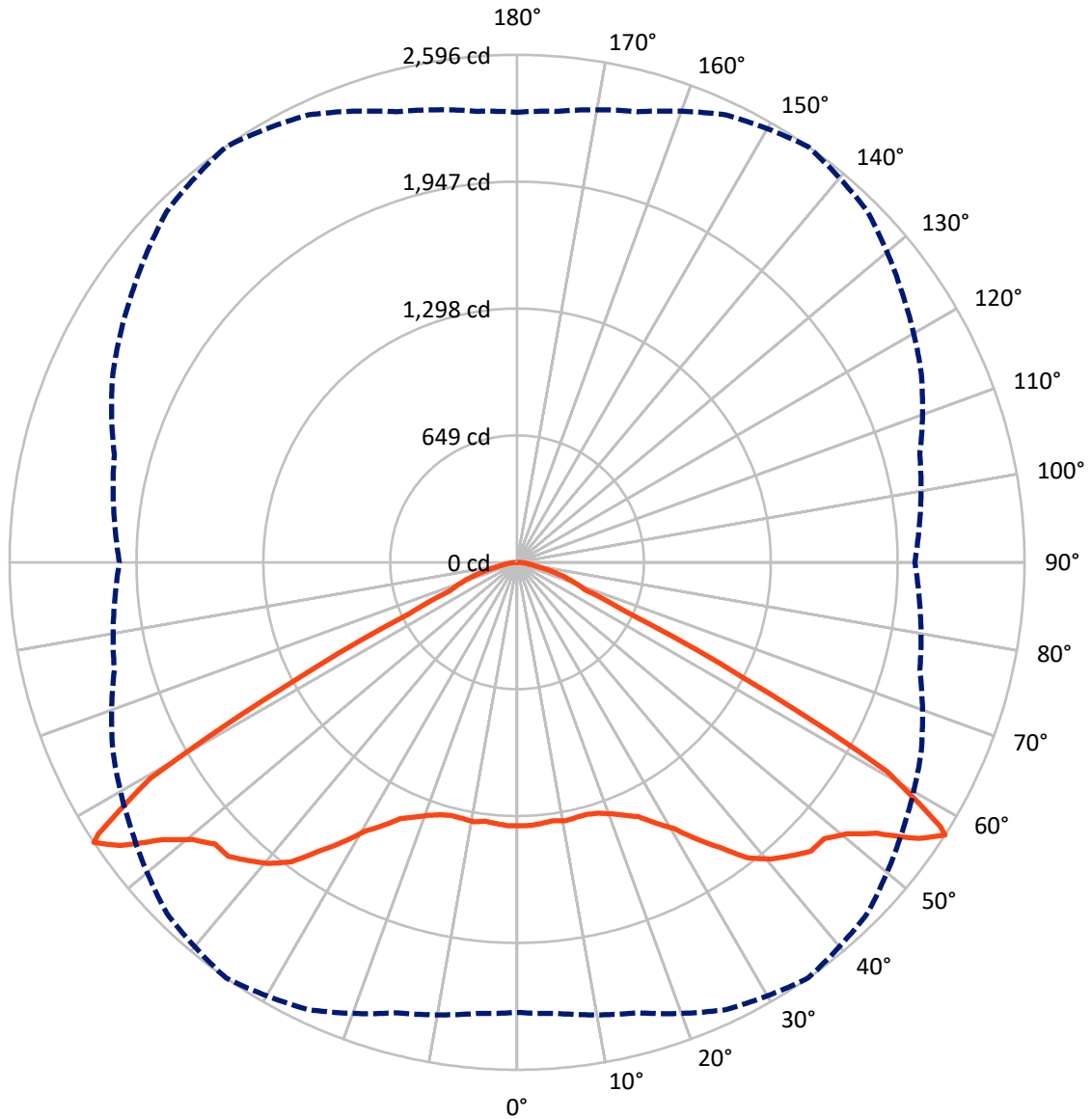
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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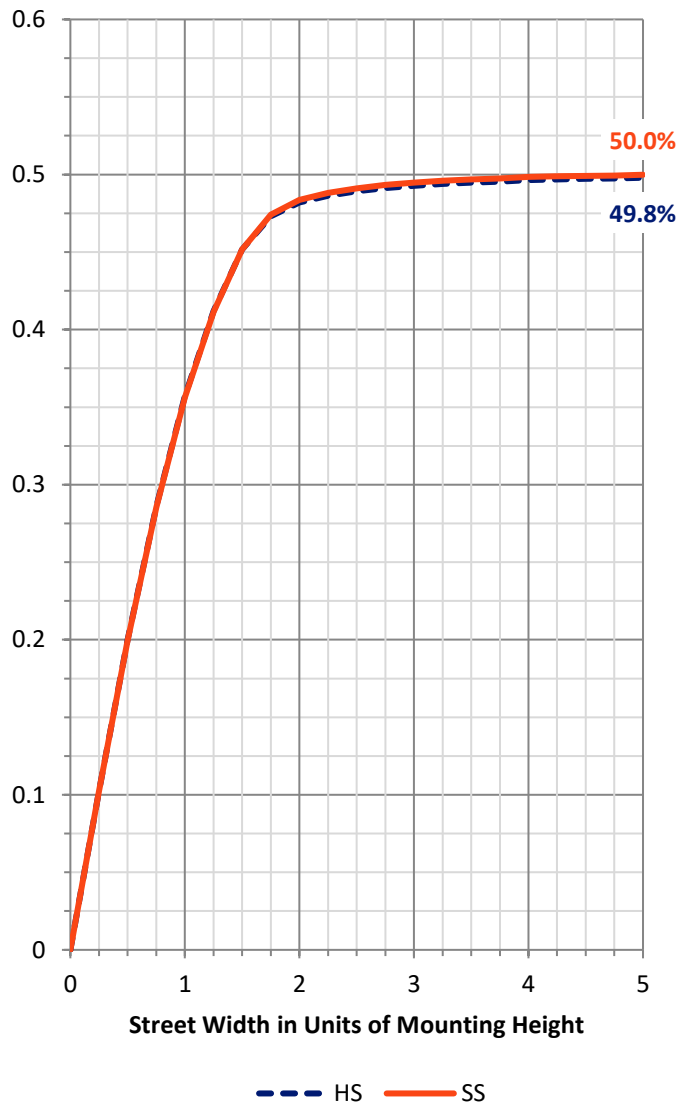
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3413.2   | 0.0    | 3413.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3413.2   | 0.0    | 3413.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6826.4   | 0.0    | 6826.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.8  | 1.9       |
| 10°-20°   | 378.5  | 5.5       |
| 20°-30°   | 661.1  | 9.7       |
| 30°-40°   | 1083.3 | 15.9      |
| 40°-50°   | 1588.3 | 23.3      |
| 50°-60°   | 2000.6 | 29.3      |
| 60°-70°   | 752.4  | 11.0      |
| 70°-80°   | 200.1  | 2.9       |
| 80°-90°   | 34.3   | 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°    | 6826.4 | 100.0     |
| 0°-180°   | 6826.4 | 100.0     |

**Coefficient of Utilization**



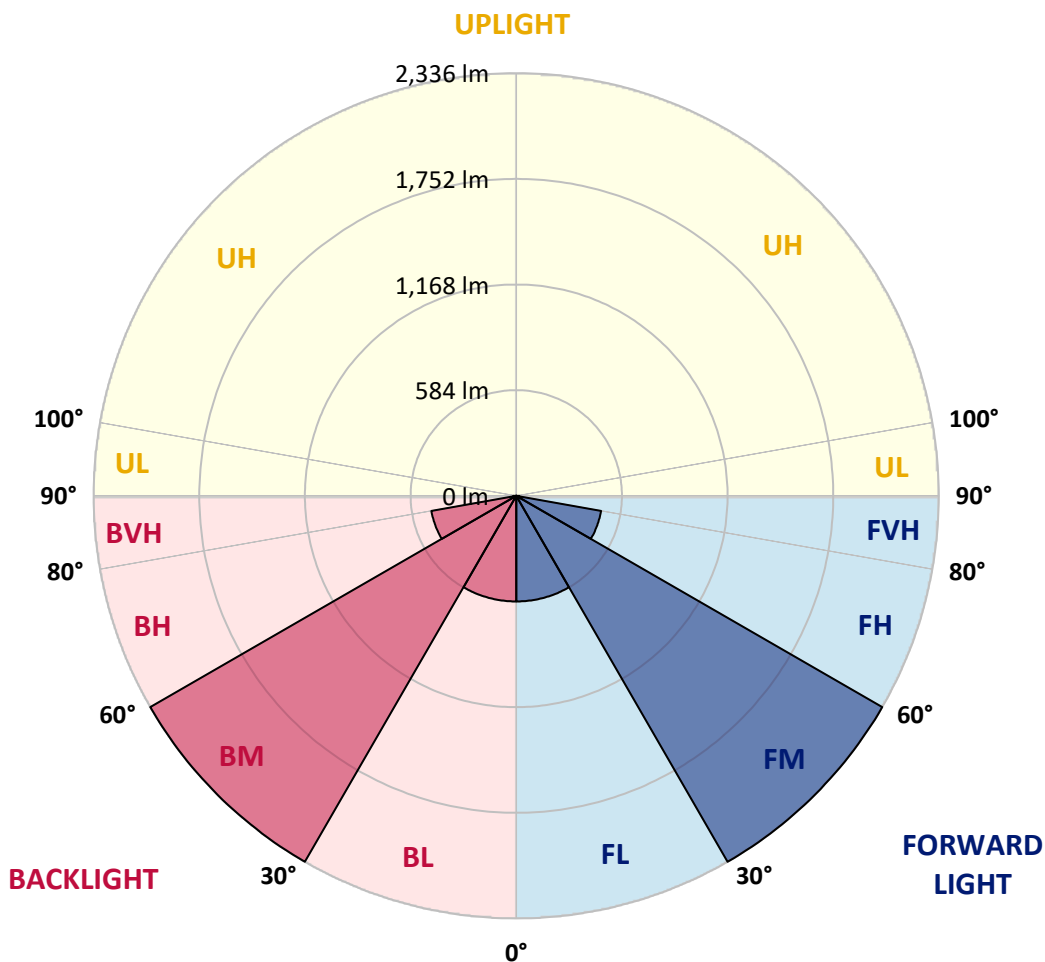
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 583.7  | 8.6       |                         |      |        |
| FM (30°-60°)   | 2336.1 | 34.2      |                         |      |        |
| FH (60°-80°)   | 476.2  | 7.0       |                         |      | G0/660 |
| FVH (80°-90°)  | 17.2   | 0.3       |                         |      | G1/100 |
| BL (0°-30°)    | 583.7  | 8.6       | B2/1000                 |      |        |
| BM (30°-60°)   | 2336.1 | 34.2      | B2/2500                 |      |        |
| BH (60°-80°)   | 476.2  | 7.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 17.2   | 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°    | 1348.1 | 1348.1 | 1348.1 | 1348.1 | 1348.1 | 1348.1 | 1348.1 | 1348.1 | 1348.1 | 1348.1 | 1348.1 |
| 2.5°  | 1341.4 | 1354.9 | 1349.0 | 1345.6 | 1348.1 | 1343.9 | 1337.2 | 1344.8 | 1343.1 | 1336.3 | 1333.8 |
| 5°    | 1338.0 | 1348.1 | 1341.4 | 1348.1 | 1341.4 | 1353.2 | 1349.8 | 1337.2 | 1352.3 | 1338.0 | 1343.1 |
| 7.5°  | 1335.5 | 1338.9 | 1340.6 | 1337.2 | 1334.7 | 1349.0 | 1341.4 | 1335.5 | 1327.1 | 1324.6 | 1328.8 |
| 10°   | 1329.6 | 1338.0 | 1325.4 | 1342.2 | 1345.6 | 1335.5 | 1335.5 | 1324.6 | 1317.8 | 1313.6 | 1327.9 |
| 12.5° | 1344.8 | 1330.5 | 1328.8 | 1337.2 | 1339.7 | 1343.9 | 1332.1 | 1326.3 | 1313.6 | 1315.3 | 1312.8 |
| 15°   | 1327.1 | 1333.0 | 1333.8 | 1335.5 | 1338.0 | 1348.1 | 1337.2 | 1324.6 | 1319.5 | 1301.9 | 1303.6 |
| 17.5° | 1333.8 | 1327.9 | 1333.8 | 1353.2 | 1349.8 | 1357.4 | 1345.6 | 1326.3 | 1314.5 | 1304.4 | 1317.8 |
| 20°   | 1345.6 | 1343.1 | 1345.6 | 1369.1 | 1373.4 | 1380.1 | 1370.0 | 1352.3 | 1329.6 | 1317.8 | 1324.6 |
| 22.5° | 1358.2 | 1356.5 | 1358.2 | 1380.9 | 1405.3 | 1413.8 | 1403.6 | 1362.4 | 1350.6 | 1328.8 | 1321.2 |
| 25°   | 1380.9 | 1382.6 | 1400.3 | 1425.6 | 1441.6 | 1457.5 | 1439.0 | 1409.5 | 1371.7 | 1358.2 | 1342.2 |
| 27.5° | 1431.5 | 1435.7 | 1445.8 | 1482.8 | 1510.5 | 1524.8 | 1498.7 | 1458.4 | 1434.8 | 1407.0 | 1402.8 |
| 30°   | 1493.7 | 1493.7 | 1511.4 | 1543.3 | 1581.2 | 1603.0 | 1571.1 | 1523.1 | 1494.5 | 1479.4 | 1470.2 |
| 32.5° | 1576.1 | 1566.9 | 1573.6 | 1629.9 | 1688.8 | 1707.3 | 1664.4 | 1605.6 | 1560.1 | 1540.0 | 1533.2 |
| 35°   | 1646.8 | 1652.6 | 1667.8 | 1728.3 | 1793.9 | 1836.8 | 1769.5 | 1693.0 | 1646.8 | 1628.3 | 1624.9 |
| 37.5° | 1738.4 | 1748.5 | 1756.1 | 1839.4 | 1918.4 | 1934.4 | 1869.6 | 1808.2 | 1751.9 | 1736.7 | 1728.3 |
| 40°   | 1867.9 | 1861.2 | 1863.7 | 1925.1 | 1996.6 | 2006.7 | 1942.8 | 1899.1 | 1852.8 | 1843.6 | 1843.6 |
| 42.5° | 1974.8 | 1967.2 | 1975.6 | 1998.3 | 2053.0 | 2045.4 | 2010.1 | 1978.1 | 1958.8 | 1948.7 | 1958.8 |
| 45°   | 2039.5 | 2037.8 | 2053.0 | 2069.8 | 2108.5 | 2083.2 | 2055.5 | 2060.5 | 2042.0 | 2025.2 | 2024.4 |
| 47.5° | 2110.2 | 2099.2 | 2117.7 | 2143.0 | 2113.5 | 2101.7 | 2100.1 | 2111.0 | 2105.1 | 2075.7 | 2066.4 |
| 50°   | 2144.6 | 2140.4 | 2169.9 | 2199.3 | 2183.3 | 2156.4 | 2162.3 | 2180.0 | 2104.3 | 2064.7 | 2042.0 |
| 52.5° | 2237.1 | 2238.0 | 2294.3 | 2310.3 | 2303.6 | 2264.1 | 2276.7 | 2228.7 | 2139.6 | 2084.1 | 2086.6 |
| 55°   | 2382.6 | 2376.8 | 2439.8 | 2486.9 | 2494.5 | 2444.0 | 2383.5 | 2316.2 | 2204.3 | 2148.0 | 2131.2 |
| 57°   | 2302.7 | 2316.2 | 2386.0 | 2525.6 | 2596.3 | 2536.5 | 2404.5 | 2281.7 | 2132.9 | 2064.7 | 2034.5 |
| 57.5° | 2195.9 | 2217.8 | 2338.9 | 2479.4 | 2553.4 | 2548.3 | 2378.4 | 2217.8 | 2084.9 | 1979.0 | 1981.5 |
| 60°   | 1608.9 | 1613.1 | 1722.5 | 1945.3 | 2176.6 | 2181.6 | 1974.8 | 1762.0 | 1614.0 | 1498.7 | 1514.7 |
| 62.5° | 848.6  | 867.9  | 911.6  | 1090.8 | 1290.9 | 1339.7 | 1214.4 | 1105.1 | 977.2  | 889.8  | 898.2  |
| 65°   | 449.1  | 446.6  | 467.6  | 518.1  | 616.5  | 641.7  | 624.9  | 538.2  | 493.7  | 479.4  | 480.2  |
| 67.5° | 365.0  | 369.2  | 366.7  | 369.2  | 375.9  | 386.9  | 384.3  | 387.7  | 390.2  | 394.4  | 393.6  |
| 70°   | 309.5  | 309.5  | 311.2  | 312.0  | 312.0  | 317.1  | 322.9  | 333.9  | 334.7  | 338.9  | 340.6  |
| 72.5° | 243.9  | 242.2  | 244.7  | 250.6  | 251.5  | 255.7  | 264.1  | 270.8  | 273.3  | 273.3  | 268.3  |
| 75°   | 165.7  | 167.4  | 170.7  | 175.8  | 180.8  | 188.4  | 195.1  | 199.3  | 201.0  | 198.5  | 196.0  |
| 77.5° | 93.4   | 95.0   | 97.6   | 105.1  | 111.0  | 117.7  | 125.3  | 129.5  | 133.7  | 134.6  | 129.5  |
| 80°   | 55.5   | 55.5   | 59.7   | 65.6   | 72.3   | 79.1   | 85.8   | 90.8   | 92.5   | 92.5   | 90.0   |
| 82.5° | 33.6   | 34.5   | 37.8   | 43.7   | 49.6   | 53.8   | 59.7   | 63.9   | 67.3   | 66.4   | 64.8   |
| 85°   | 17.7   | 17.7   | 21.0   | 26.1   | 30.3   | 34.5   | 34.5   | 32.0   | 30.3   | 26.1   | 24.4   |
| 87.5° | 5.9    | 5.0    | 6.7    | 6.7    | 5.9    | 6.7    | 6.7    | 7.6    | 7.6    | 7.6    | 7.6    |
| 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)