

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: STREETWORKS

Report Number: P386155

Luminaire Tested: GAW-SA1D-740-U-5NQ

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386155  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-740-U-5NQ  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8547 lumens  
Efficiency: N/A  
Efficacy: 127.6 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

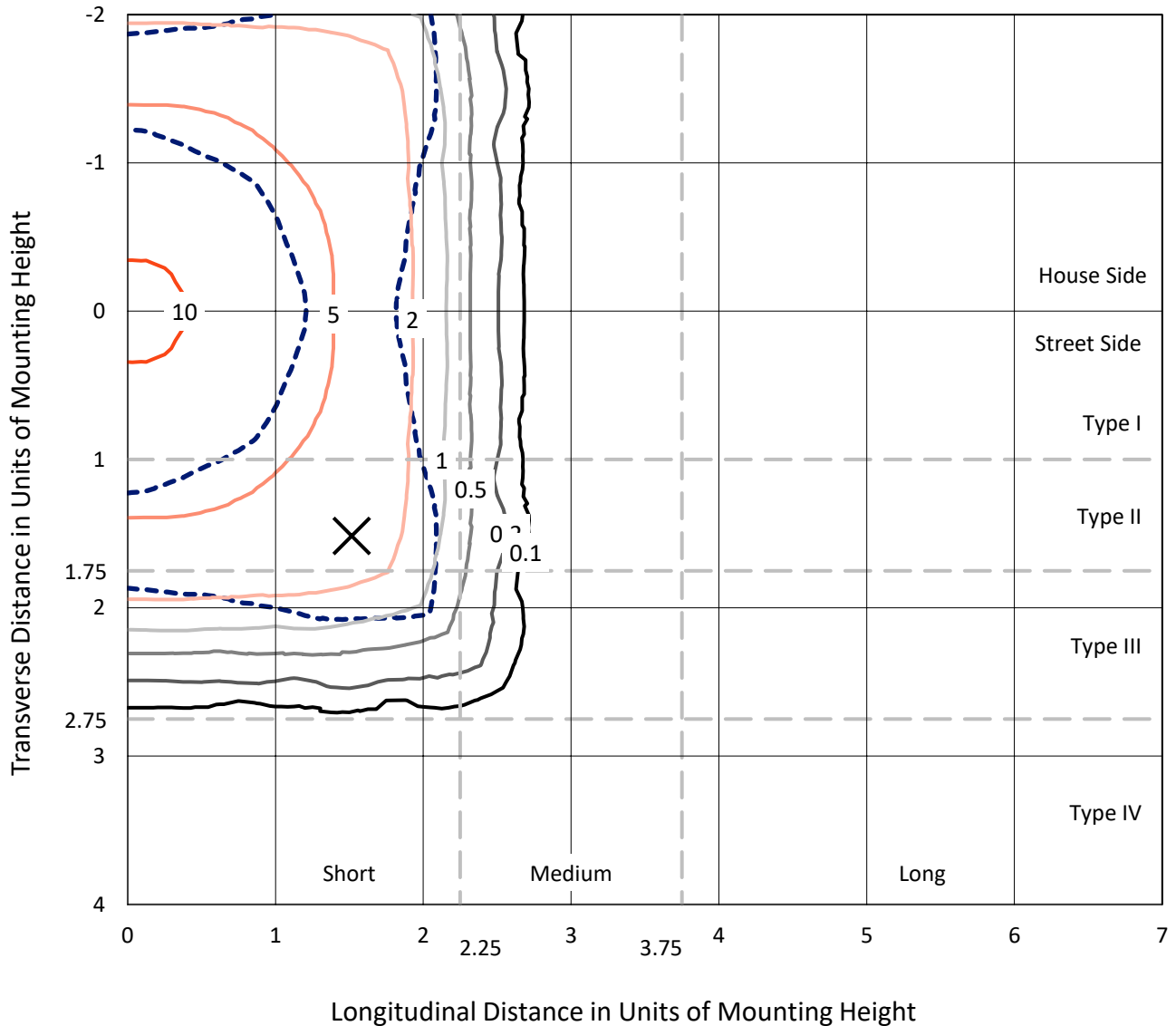
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

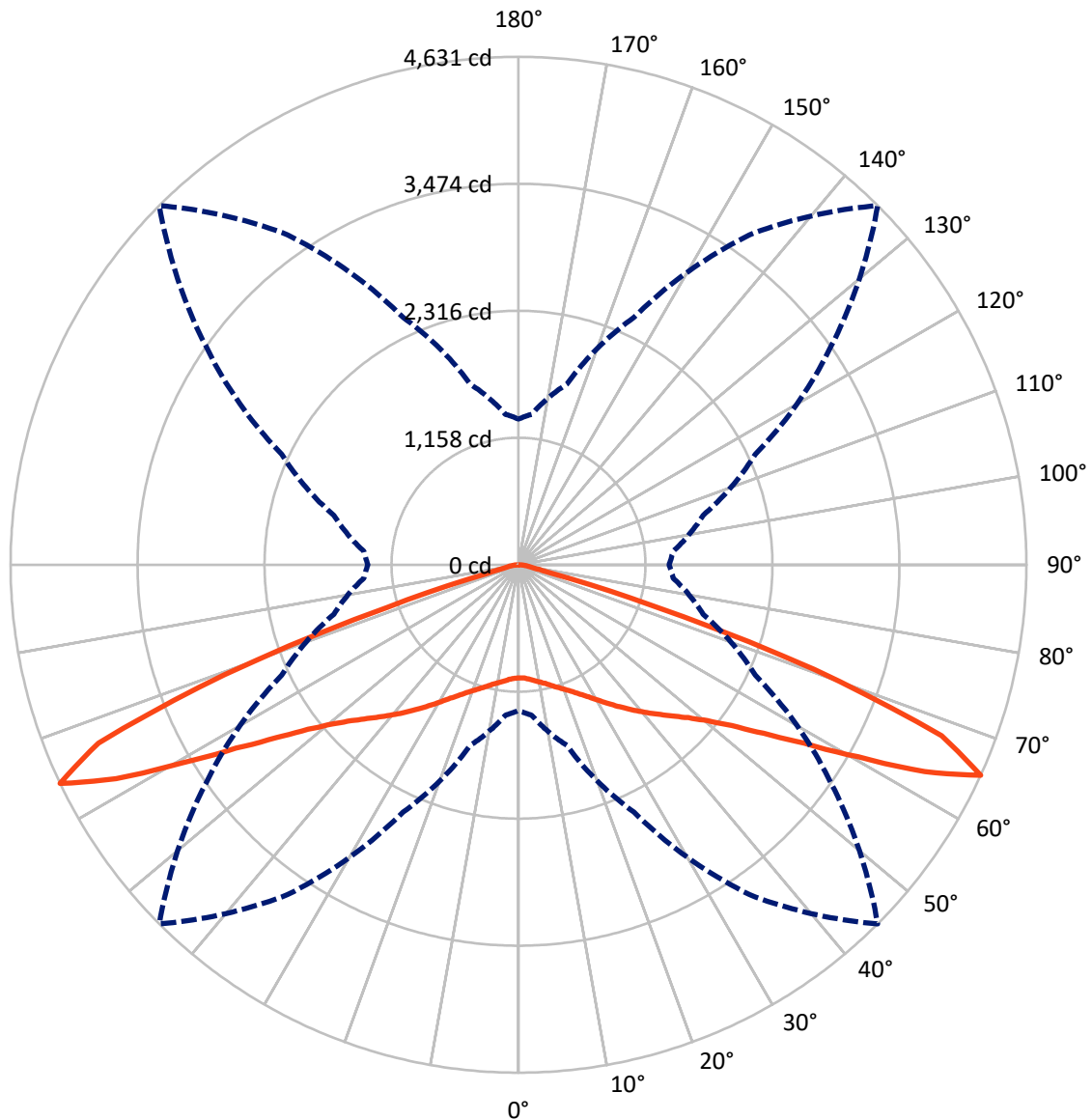
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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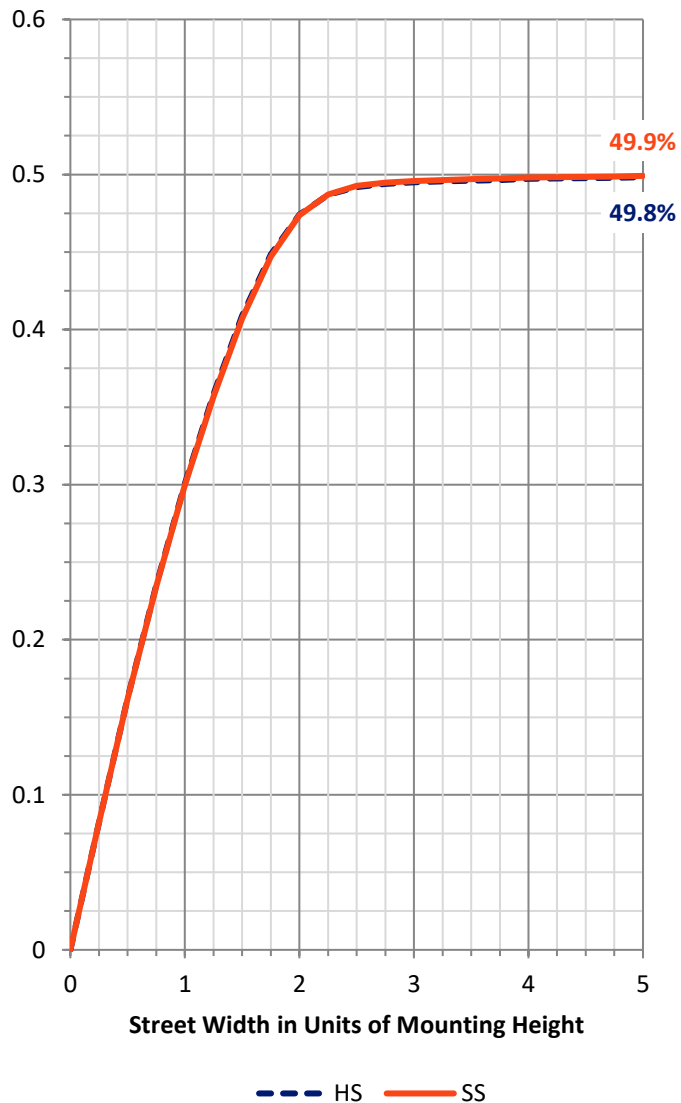
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4273.5   | 0.0    | 4273.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4273.5   | 0.0    | 4273.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8547.0   | 0.0    | 8547.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.3  | 1.2       |
| 10°-20°   | 325.5  | 3.8       |
| 20°-30°   | 610.7  | 7.1       |
| 30°-40°   | 1010.0 | 11.8      |
| 40°-50°   | 1564.3 | 18.3      |
| 50°-60°   | 2399.2 | 28.1      |
| 60°-70°   | 2238.8 | 26.2      |
| 70°-80°   | 260.6  | 3.0       |
| 80°-90°   | 36.6   | 0.4       |
| 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°    | 8547.0 | 100.0     |
| 0°-180°   | 8547.0 | 100.0     |

**Coefficient of Utilization**



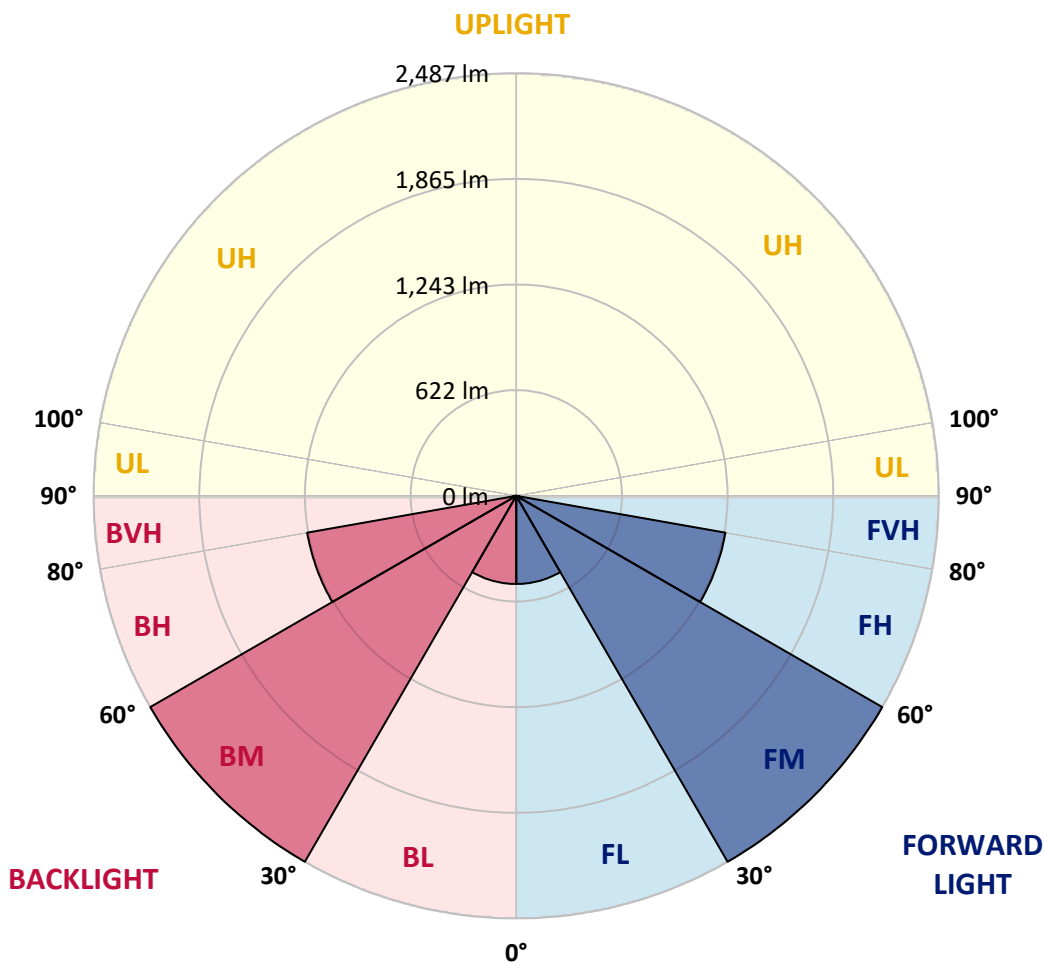
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 518.7  | 6.1       |                         |      |         |
| FM (30°-60°)   | 2486.8 | 29.1      |                         |      |         |
| FH (60°-80°)   | 1249.7 | 14.6      |                         |      | G1/1800 |
| FVH (80°-90°)  | 18.3   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 518.7  | 6.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 2486.8 | 29.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1249.7 | 14.6      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 18.3   | 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°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1032.2 | 1032.2 | 1032.2 | 1032.2 | 1032.2 | 1032.2 | 1032.2 | 1032.2 | 1032.2 | 1032.2 | 1032.2 |
| 2.5°  | 1035.6 | 1035.0 | 1035.6 | 1035.8 | 1034.1 | 1035.0 | 1034.7 | 1036.1 | 1036.7 | 1036.1 | 1036.1 |
| 5°    | 1047.5 | 1046.6 | 1047.8 | 1049.2 | 1046.9 | 1047.5 | 1046.6 | 1048.3 | 1048.9 | 1047.8 | 1048.6 |
| 7.5°  | 1063.9 | 1064.2 | 1065.4 | 1067.9 | 1066.5 | 1067.6 | 1065.9 | 1066.2 | 1065.9 | 1064.2 | 1064.5 |
| 10°   | 1081.8 | 1082.1 | 1084.1 | 1087.5 | 1088.1 | 1088.1 | 1086.9 | 1086.1 | 1084.9 | 1083.8 | 1084.1 |
| 12.5° | 1103.4 | 1104.8 | 1106.2 | 1110.5 | 1110.5 | 1112.7 | 1112.2 | 1109.9 | 1107.9 | 1106.2 | 1106.2 |
| 15°   | 1132.6 | 1132.3 | 1134.0 | 1138.3 | 1140.3 | 1143.9 | 1143.9 | 1140.8 | 1138.3 | 1136.6 | 1136.0 |
| 17.5° | 1163.2 | 1164.1 | 1165.2 | 1170.3 | 1173.4 | 1177.7 | 1178.3 | 1175.7 | 1174.0 | 1171.7 | 1170.3 |
| 20°   | 1199.0 | 1200.4 | 1204.9 | 1206.9 | 1209.8 | 1213.7 | 1215.2 | 1214.6 | 1212.9 | 1211.8 | 1212.0 |
| 22.5° | 1240.7 | 1244.4 | 1247.2 | 1250.1 | 1253.5 | 1256.3 | 1257.7 | 1259.7 | 1258.0 | 1257.1 | 1256.6 |
| 25°   | 1291.2 | 1293.7 | 1299.4 | 1304.5 | 1306.8 | 1307.6 | 1309.3 | 1312.2 | 1311.9 | 1309.9 | 1309.9 |
| 27.5° | 1348.5 | 1353.3 | 1360.4 | 1367.8 | 1367.8 | 1365.0 | 1370.6 | 1375.5 | 1373.8 | 1371.2 | 1367.8 |
| 30°   | 1418.0 | 1422.6 | 1430.8 | 1441.0 | 1435.9 | 1433.9 | 1441.6 | 1450.4 | 1447.8 | 1443.5 | 1443.0 |
| 32.5° | 1492.9 | 1497.2 | 1508.0 | 1519.0 | 1512.5 | 1509.7 | 1517.9 | 1530.6 | 1526.1 | 1517.6 | 1512.5 |
| 35°   | 1574.1 | 1578.3 | 1593.6 | 1607.0 | 1595.9 | 1591.1 | 1597.9 | 1611.8 | 1603.8 | 1588.0 | 1584.0 |
| 37.5° | 1662.3 | 1664.6 | 1684.4 | 1698.0 | 1690.4 | 1677.6 | 1686.1 | 1696.3 | 1689.5 | 1670.2 | 1662.6 |
| 40°   | 1753.9 | 1762.2 | 1785.1 | 1801.0 | 1787.7 | 1767.6 | 1781.7 | 1795.9 | 1785.7 | 1761.0 | 1748.0 |
| 42.5° | 1860.9 | 1867.1 | 1897.8 | 1912.0 | 1890.4 | 1862.0 | 1881.3 | 1900.6 | 1890.4 | 1866.6 | 1855.2 |
| 45°   | 1972.1 | 1981.8 | 2018.4 | 2032.5 | 2001.3 | 1965.3 | 1988.8 | 2022.6 | 2021.8 | 1987.4 | 1975.5 |
| 47.5° | 2093.3 | 2102.9 | 2146.6 | 2165.3 | 2131.6 | 2083.3 | 2116.5 | 2164.2 | 2160.8 | 2123.0 | 2113.4 |
| 50°   | 2233.1 | 2243.3 | 2297.8 | 2321.4 | 2289.9 | 2233.7 | 2283.6 | 2325.6 | 2319.4 | 2272.8 | 2273.7 |
| 52.5° | 2408.7 | 2408.2 | 2476.0 | 2516.8 | 2484.5 | 2434.8 | 2480.8 | 2521.7 | 2495.8 | 2431.4 | 2429.5 |
| 55°   | 2562.5 | 2571.9 | 2655.9 | 2733.3 | 2731.3 | 2712.3 | 2730.8 | 2732.5 | 2658.7 | 2573.0 | 2562.5 |
| 57.5° | 2663.5 | 2681.4 | 2799.7 | 2939.9 | 3044.8 | 3070.1 | 3034.3 | 2926.0 | 2753.2 | 2616.1 | 2599.4 |
| 60°   | 2601.4 | 2628.6 | 2814.5 | 3100.2 | 3409.4 | 3557.8 | 3356.1 | 3019.9 | 2679.7 | 2488.8 | 2466.1 |
| 62.5° | 2182.1 | 2228.0 | 2500.1 | 3022.7 | 3723.2 | 4157.0 | 3589.3 | 2869.2 | 2387.5 | 2124.5 | 2085.6 |
| 65°   | 1328.9 | 1377.4 | 1705.4 | 2487.9 | 3672.4 | 4631.4 | 3482.9 | 2381.5 | 1742.6 | 1415.5 | 1373.5 |
| 67.5° | 442.9  | 457.1  | 650.3  | 1375.2 | 2886.2 | 4161.3 | 2891.1 | 1425.7 | 758.4  | 502.7  | 488.0  |
| 70°   | 173.4  | 174.8  | 206.3  | 398.6  | 1363.0 | 2858.2 | 1504.0 | 405.7  | 215.6  | 170.5  | 174.2  |
| 72.5° | 127.4  | 128.0  | 136.8  | 166.5  | 355.2  | 1259.1 | 368.0  | 167.4  | 133.1  | 119.4  | 119.4  |
| 75°   | 102.4  | 102.4  | 108.7  | 121.4  | 159.2  | 288.8  | 161.4  | 120.0  | 104.1  | 95.3   | 94.2   |
| 77.5° | 80.9   | 82.6   | 87.4   | 95.6   | 107.8  | 139.0  | 111.8  | 95.0   | 84.0   | 75.8   | 74.0   |
| 80°   | 60.1   | 61.9   | 69.8   | 73.8   | 77.5   | 96.5   | 82.6   | 74.3   | 66.4   | 56.7   | 55.0   |
| 82.5° | 39.4   | 41.1   | 51.1   | 53.3   | 52.5   | 63.0   | 55.6   | 54.8   | 48.8   | 36.6   | 34.9   |
| 85°   | 25.8   | 26.4   | 34.0   | 35.5   | 32.6   | 28.7   | 35.5   | 37.5   | 34.0   | 23.8   | 23.0   |
| 87.5° | 12.2   | 12.2   | 17.3   | 16.2   | 14.8   | 11.9   | 16.2   | 19.0   | 19.3   | 11.6   | 11.3   |
| 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)