

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: P458663

Luminaire Tested: **GLAN-SA2B-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10998 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

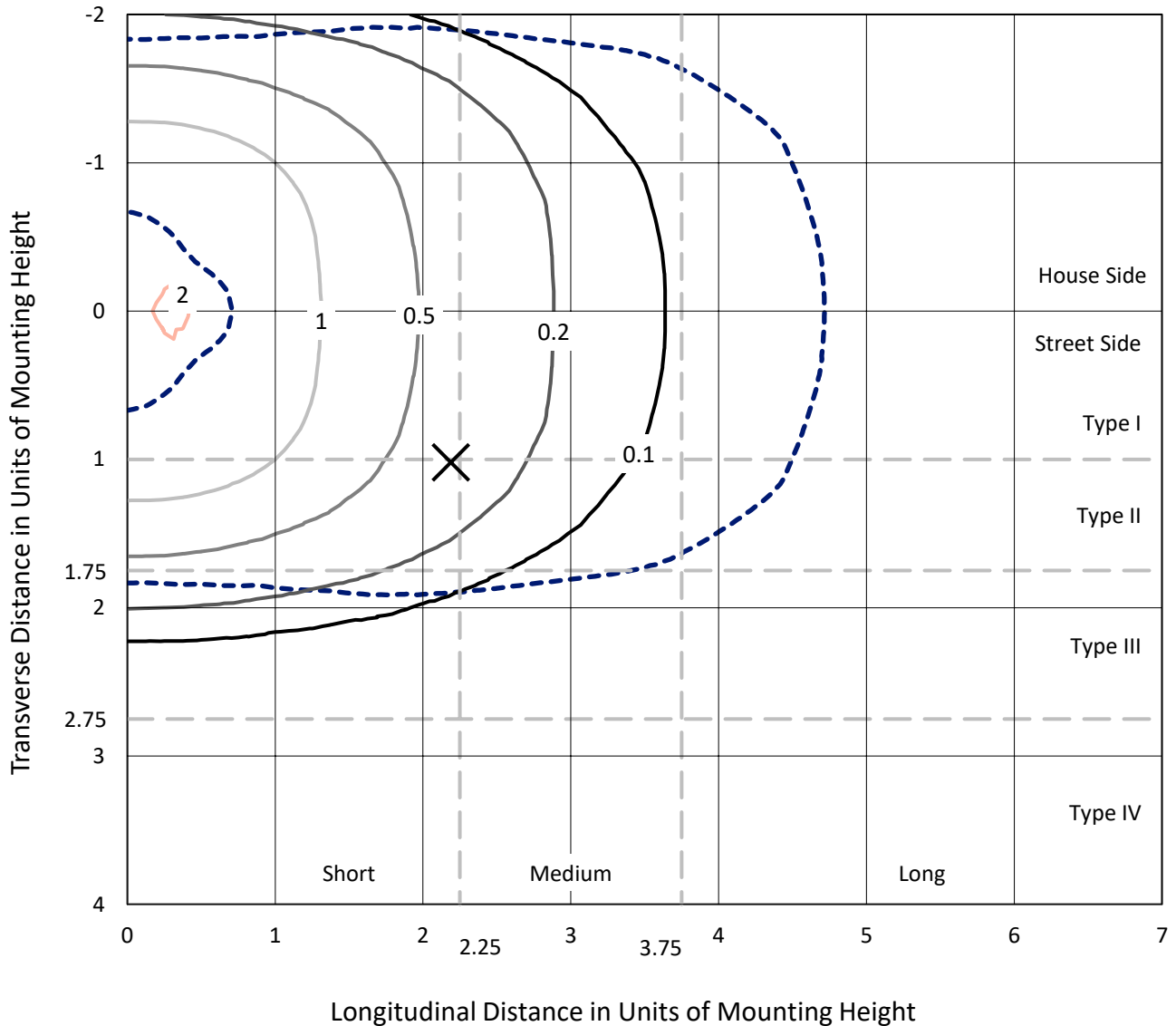
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

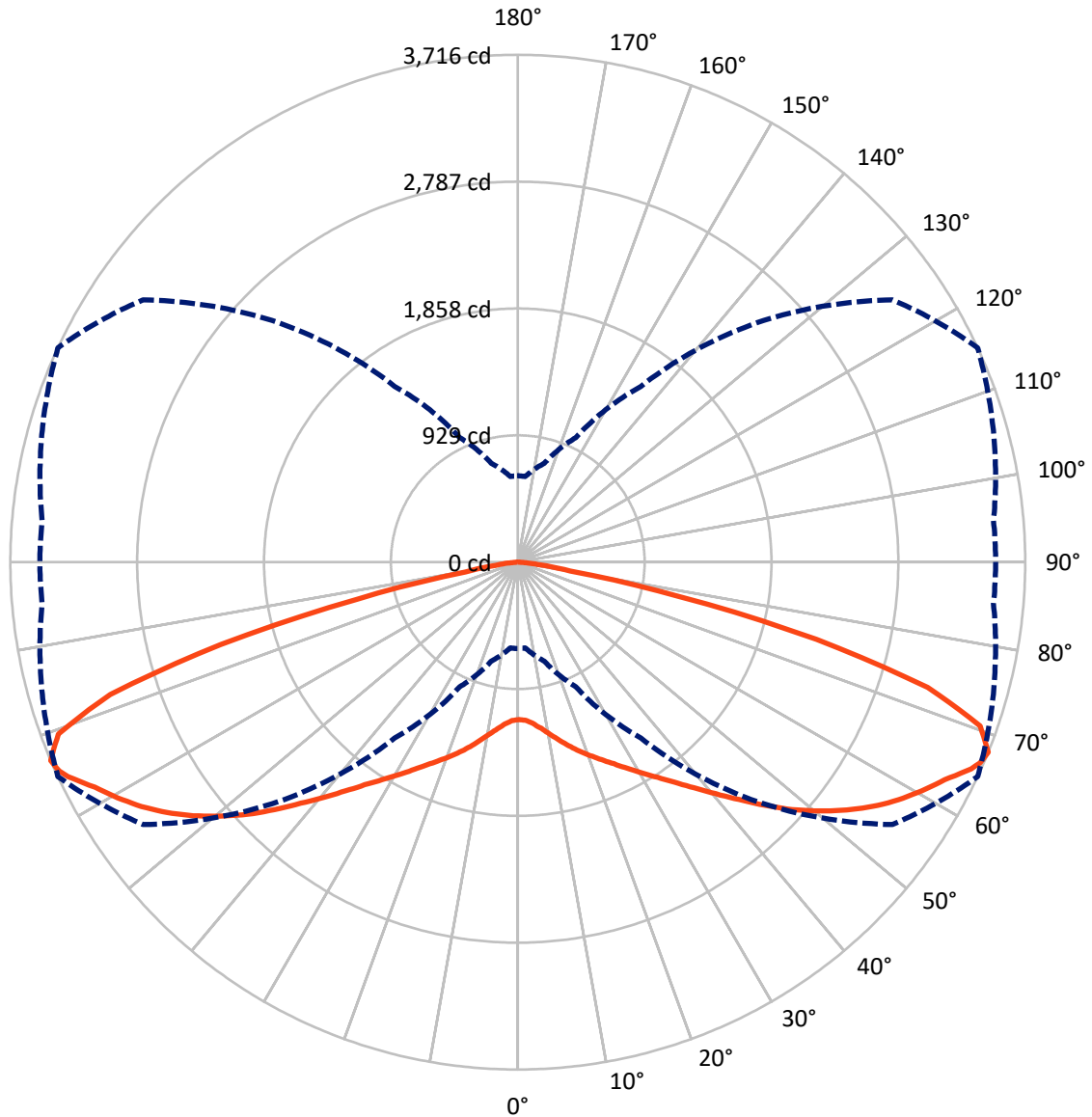
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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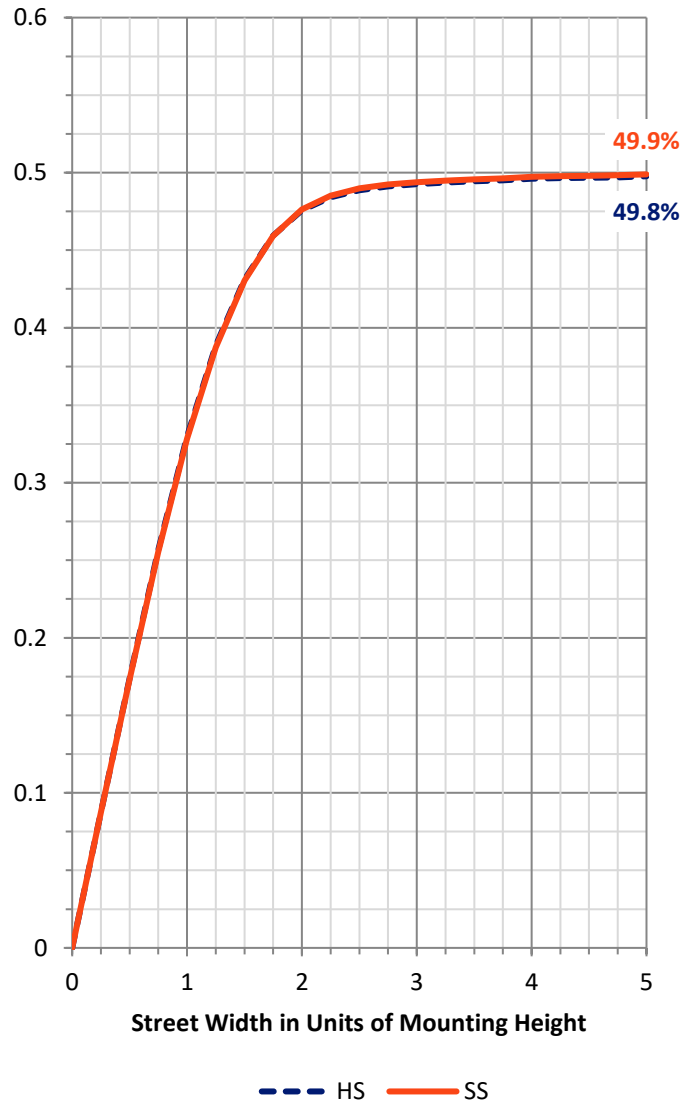
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5499.0   | 0.0    | 5499.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5499.0   | 0.0    | 5499.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10998.0  | 0.0    | 10998.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 113.6   | 1.0       |
| 10°-20°   | 380.3   | 3.5       |
| 20°-30°   | 743.8   | 6.8       |
| 30°-40°   | 1265.1  | 11.5      |
| 40°-50°   | 2002.3  | 18.2      |
| 50°-60°   | 2655.0  | 24.1      |
| 60°-70°   | 2504.5  | 22.8      |
| 70°-80°   | 1238.1  | 11.3      |
| 80°-90°   | 95.4    | 0.9       |
| 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°    | 10998.0 | 100.0     |
| 0°-180°   | 10998.0 | 100.0     |

**Coefficient of Utilization**



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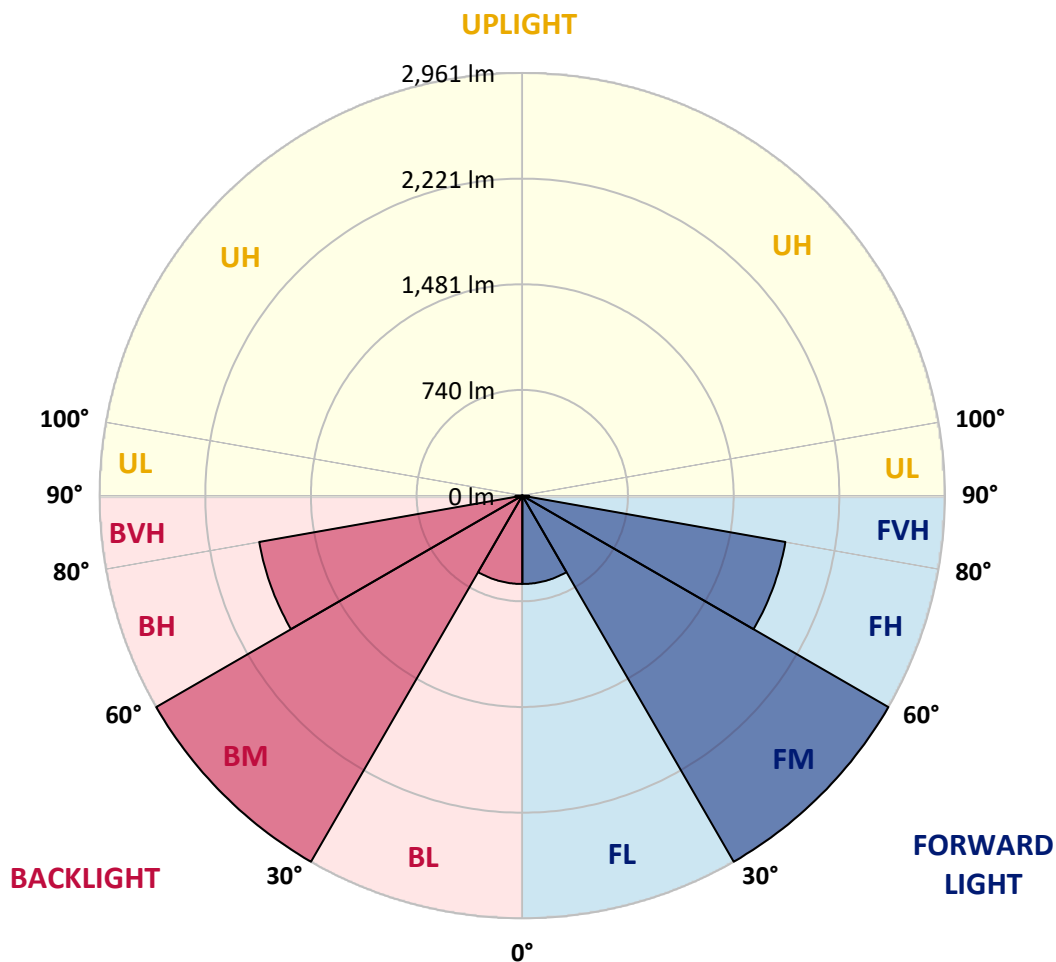
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 618.8  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 2961.2 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 1871.3 | 17.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 47.7   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 618.8  | 5.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2961.2 | 26.9      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1871.3 | 17.0      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 47.7   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 | 1151.9 |
| 2.5°  | 1146.1 | 1147.2 | 1148.4 | 1150.2 | 1152.5 | 1156.1 | 1158.4 | 1160.2 | 1164.9 | 1165.5 | 1164.9 |
| 5°    | 1141.9 | 1143.1 | 1146.1 | 1151.4 | 1159.0 | 1169.6 | 1177.9 | 1187.9 | 1195.5 | 1200.8 | 1199.7 |
| 7.5°  | 1141.3 | 1143.7 | 1148.4 | 1159.6 | 1174.3 | 1192.6 | 1211.5 | 1228.5 | 1243.3 | 1255.1 | 1253.3 |
| 10°   | 1150.8 | 1153.7 | 1161.4 | 1177.9 | 1200.8 | 1227.4 | 1253.9 | 1279.2 | 1300.4 | 1315.7 | 1321.1 |
| 12.5° | 1166.7 | 1169.0 | 1183.2 | 1207.9 | 1240.9 | 1273.9 | 1304.0 | 1335.2 | 1364.7 | 1390.6 | 1390.6 |
| 15°   | 1194.4 | 1198.5 | 1216.2 | 1252.1 | 1292.8 | 1331.1 | 1361.7 | 1394.7 | 1426.5 | 1456.0 | 1464.8 |
| 17.5° | 1232.7 | 1238.6 | 1265.1 | 1311.0 | 1362.9 | 1398.2 | 1427.1 | 1454.2 | 1481.9 | 1510.2 | 1514.3 |
| 20°   | 1285.1 | 1291.0 | 1326.4 | 1381.7 | 1443.0 | 1485.4 | 1504.9 | 1511.4 | 1524.9 | 1552.0 | 1555.6 |
| 22.5° | 1356.4 | 1362.3 | 1401.8 | 1464.2 | 1532.6 | 1578.5 | 1586.8 | 1571.5 | 1567.9 | 1589.2 | 1591.5 |
| 25°   | 1437.1 | 1442.4 | 1487.8 | 1555.0 | 1625.7 | 1675.8 | 1673.4 | 1635.7 | 1614.5 | 1627.5 | 1631.0 |
| 27.5° | 1527.9 | 1535.5 | 1581.5 | 1651.0 | 1727.6 | 1771.8 | 1764.7 | 1709.9 | 1664.6 | 1662.2 | 1663.4 |
| 30°   | 1644.0 | 1652.2 | 1695.8 | 1762.4 | 1837.8 | 1878.5 | 1863.7 | 1790.1 | 1720.0 | 1696.4 | 1696.4 |
| 32.5° | 1766.5 | 1787.1 | 1831.3 | 1900.9 | 1959.8 | 1989.2 | 1966.8 | 1878.5 | 1785.4 | 1752.4 | 1750.6 |
| 35°   | 1926.2 | 1937.4 | 1981.0 | 2048.8 | 2092.9 | 2115.9 | 2072.9 | 1978.0 | 1870.8 | 1831.9 | 1826.6 |
| 37.5° | 2082.3 | 2091.8 | 2142.4 | 2207.3 | 2260.9 | 2259.7 | 2201.4 | 2096.5 | 1976.9 | 1933.3 | 1929.7 |
| 40°   | 2242.0 | 2252.0 | 2309.8 | 2369.3 | 2422.9 | 2418.2 | 2347.5 | 2230.2 | 2103.0 | 2054.1 | 2063.5 |
| 42.5° | 2380.5 | 2391.7 | 2457.1 | 2541.9 | 2590.3 | 2589.1 | 2507.2 | 2375.2 | 2242.6 | 2199.0 | 2207.3 |
| 45°   | 2506.6 | 2516.6 | 2592.6 | 2689.8 | 2760.5 | 2769.4 | 2679.8 | 2540.2 | 2404.1 | 2348.1 | 2350.4 |
| 47.5° | 2595.6 | 2614.4 | 2694.0 | 2805.3 | 2901.4 | 2932.6 | 2844.8 | 2708.1 | 2551.4 | 2493.0 | 2496.6 |
| 50°   | 2663.3 | 2675.1 | 2761.7 | 2888.4 | 3009.8 | 3074.6 | 3003.9 | 2863.7 | 2698.7 | 2636.8 | 2645.1 |
| 52.5° | 2671.6 | 2685.7 | 2780.0 | 2926.1 | 3081.7 | 3180.1 | 3145.3 | 3015.7 | 2848.9 | 2785.3 | 2803.0 |
| 55°   | 2604.4 | 2612.6 | 2725.2 | 2902.5 | 3110.0 | 3258.4 | 3267.3 | 3157.1 | 2992.1 | 2943.8 | 2955.6 |
| 57.5° | 2412.9 | 2434.1 | 2576.7 | 2792.4 | 3071.1 | 3300.3 | 3358.6 | 3285.5 | 3137.1 | 3089.3 | 3108.2 |
| 60°   | 2098.8 | 2120.0 | 2263.2 | 2536.6 | 2924.3 | 3280.8 | 3434.0 | 3399.3 | 3268.5 | 3230.2 | 3240.2 |
| 62.5° | 1644.5 | 1642.8 | 1820.1 | 2155.4 | 2632.7 | 3185.4 | 3490.0 | 3508.9 | 3398.1 | 3349.8 | 3365.1 |
| 65°   | 1065.9 | 1071.2 | 1242.7 | 1603.9 | 2192.5 | 2942.6 | 3502.4 | 3648.5 | 3525.4 | 3452.3 | 3463.5 |
| 66°   | 857.3  | 873.2  | 1018.8 | 1351.7 | 1968.0 | 2783.5 | 3465.3 | 3689.8 | 3564.2 | 3475.9 | 3481.2 |
| 67.5° | 632.8  | 629.9  | 749.5  | 1006.4 | 1571.5 | 2481.2 | 3349.2 | 3715.7 | 3608.4 | 3497.1 | 3499.4 |
| 70°   | 361.2  | 360.6  | 403.0  | 552.7  | 923.9  | 1747.1 | 2823.0 | 3591.4 | 3698.0 | 3573.7 | 3567.2 |
| 72.5° | 264.0  | 262.2  | 268.1  | 305.2  | 450.8  | 882.1  | 1947.4 | 3138.8 | 3652.0 | 3561.3 | 3543.0 |
| 75°   | 221.6  | 220.4  | 219.2  | 223.9  | 252.8  | 399.5  | 1033.5 | 2257.9 | 3168.9 | 3342.7 | 3323.8 |
| 77.5° | 180.9  | 180.9  | 181.5  | 180.3  | 181.5  | 210.4  | 428.4  | 1210.3 | 1929.7 | 2154.2 | 2206.7 |
| 80°   | 141.4  | 140.8  | 150.8  | 146.7  | 137.3  | 134.9  | 189.7  | 389.5  | 640.5  | 637.0  | 525.6  |
| 82.5° | 104.3  | 97.2   | 114.9  | 112.0  | 101.3  | 86.0   | 110.8  | 166.2  | 213.9  | 139.1  | 103.1  |
| 85°   | 66.0   | 65.4   | 81.3   | 74.2   | 61.9   | 40.7   | 53.0   | 71.3   | 88.4   | 53.6   | 43.6   |
| 87.5° | 11.8   | 11.2   | 25.9   | 18.9   | 18.9   | 11.8   | 14.7   | 19.4   | 28.9   | 20.0   | 14.7   |
| 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)