

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: P453356

Luminaire Tested: **GLAN-SA4B-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453356  
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-SA4B-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17073 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 164  
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

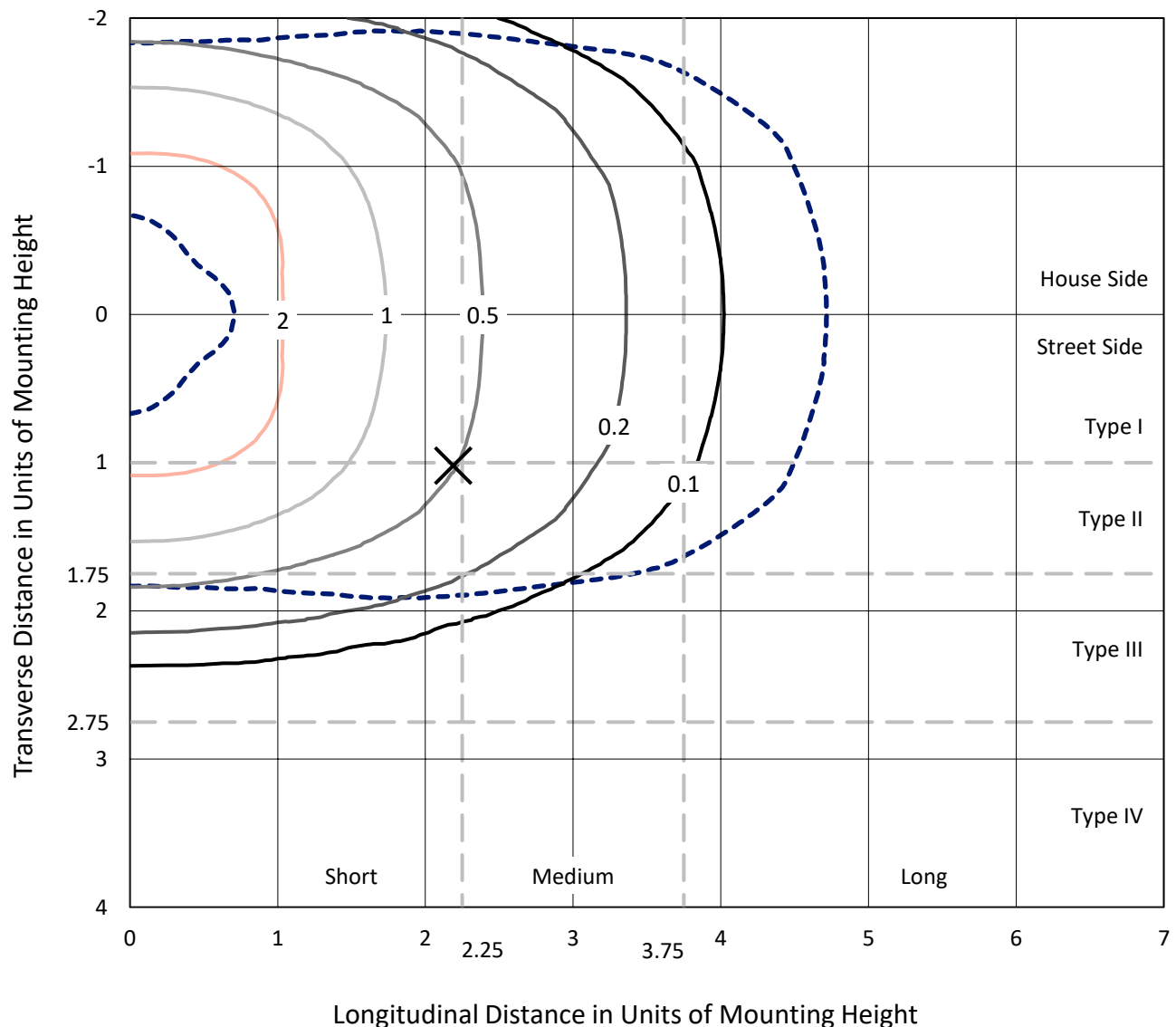


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

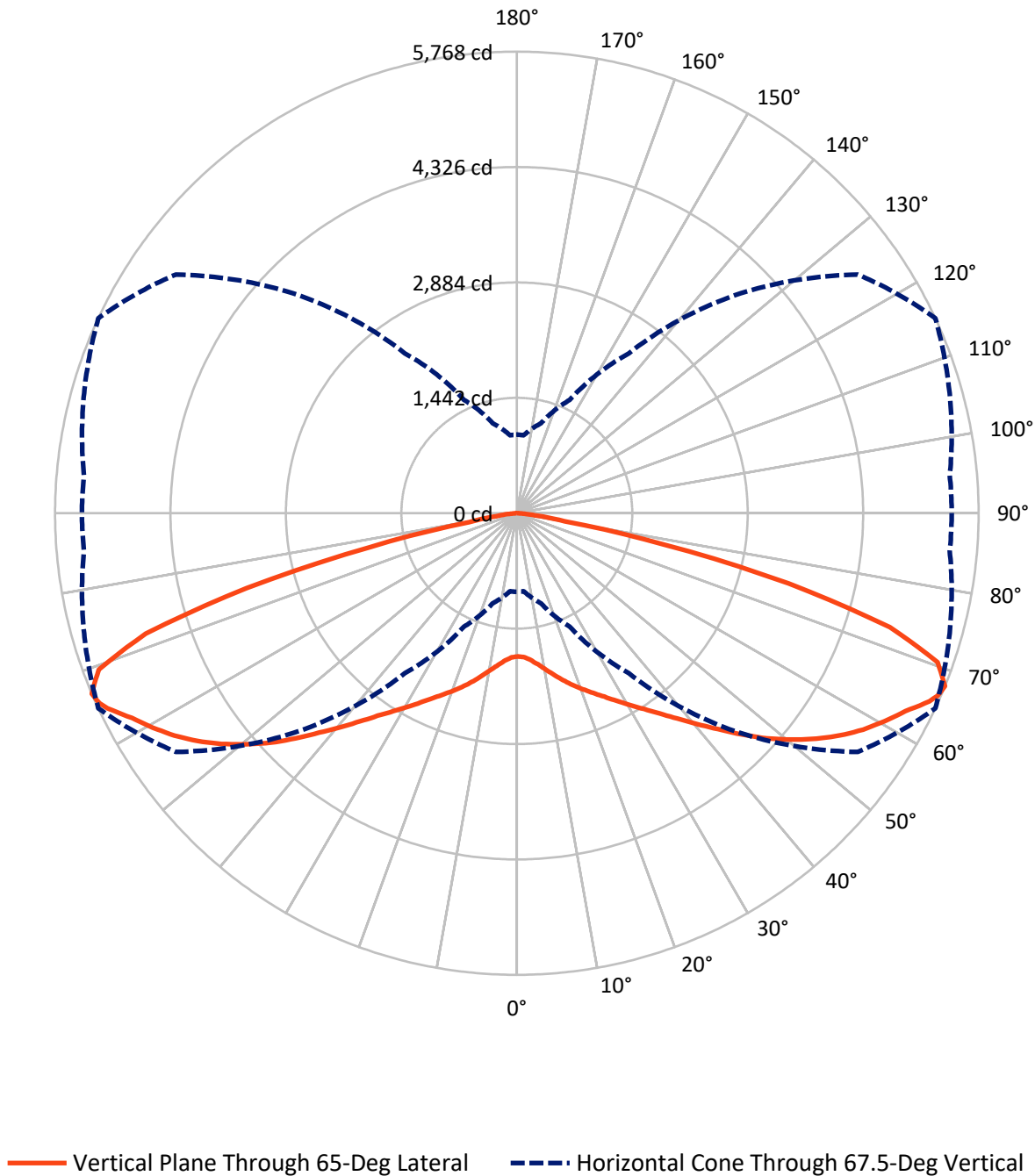


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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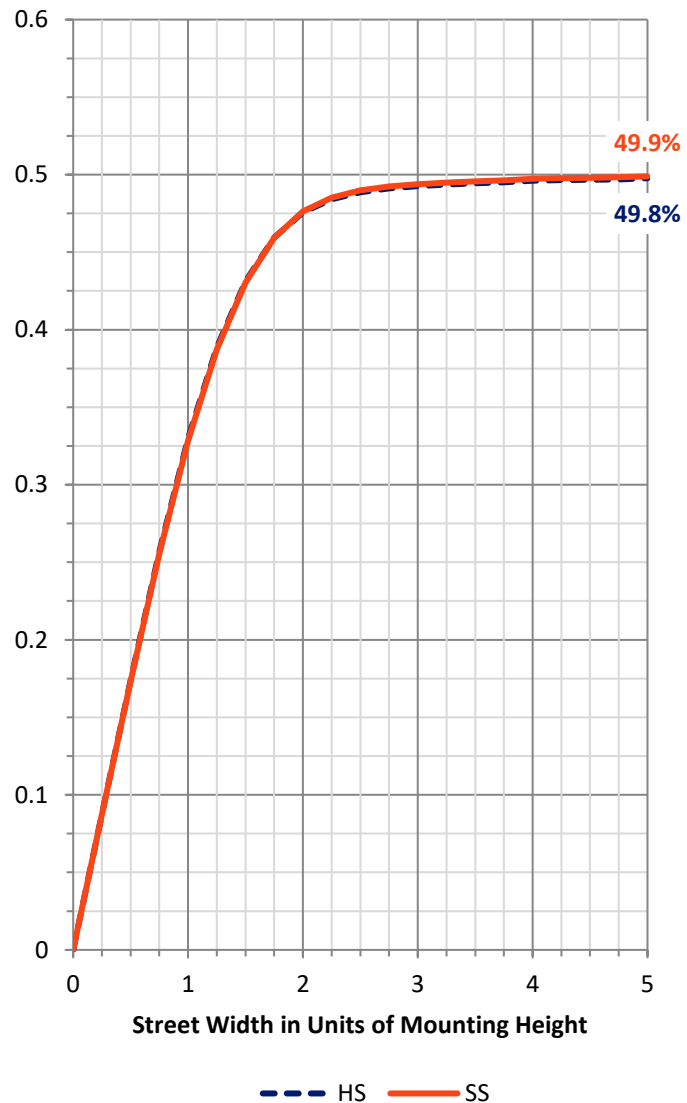
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8536.5   | 0.0    | 8536.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8536.5   | 0.0    | 8536.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17073.0  | 0.0    | 17073.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 176.4   | 1.0       |
| 10°-20°   | 590.3   | 3.5       |
| 20°-30°   | 1154.7  | 6.8       |
| 30°-40°   | 1963.9  | 11.5      |
| 40°-50°   | 3108.3  | 18.2      |
| 50°-60°   | 4121.5  | 24.1      |
| 60°-70°   | 3887.9  | 22.8      |
| 70°-80°   | 1922.0  | 11.3      |
| 80°-90°   | 148.1   | 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°    | 17073.0 | 100.0     |
| 0°-180°   | 17073.0 | 100.0     |

**Coefficient of Utilization**



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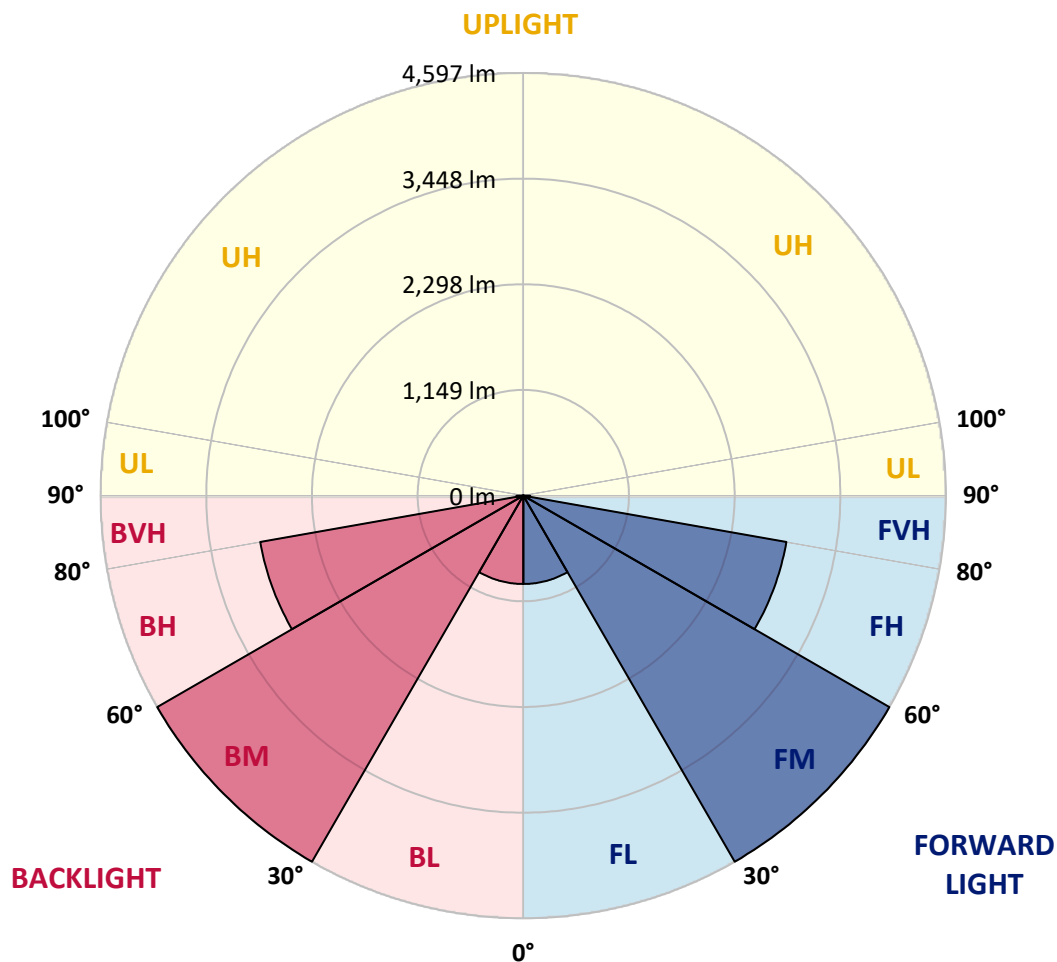
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 960.7  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 4596.9 | 26.9      |                         |      |         |
| FH   | (60°-80°)   | 2904.9 | 17.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 74.1   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 960.7  | 5.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4596.9 | 26.9      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2904.9 | 17.0      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 74.1   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1788.2 | 1788.2 | 1788.2 | 1788.2 | 1788.2 | 1788.2 | 1788.2 | 1788.2 | 1788.2 | 1788.2 | 1788.2 |
| 2.5°  | 1779.1 | 1780.9 | 1782.8 | 1785.5 | 1789.2 | 1794.6 | 1798.3 | 1801.1 | 1808.4 | 1809.3 | 1808.4 |
| 5°    | 1772.7 | 1774.5 | 1779.1 | 1787.3 | 1799.2 | 1815.7 | 1828.5 | 1844.0 | 1855.9 | 1864.2 | 1862.3 |
| 7.5°  | 1771.8 | 1775.4 | 1782.8 | 1800.1 | 1823.0 | 1851.4 | 1880.6 | 1907.2 | 1930.0 | 1948.3 | 1945.6 |
| 10°   | 1786.4 | 1791.0 | 1802.9 | 1828.5 | 1864.2 | 1905.3 | 1946.5 | 1985.8 | 2018.8 | 2042.5 | 2050.8 |
| 12.5° | 1811.1 | 1814.8 | 1836.7 | 1875.1 | 1926.4 | 1977.6 | 2024.2 | 2072.7 | 2118.5 | 2158.7 | 2158.7 |
| 15°   | 1854.1 | 1860.5 | 1887.9 | 1943.7 | 2006.9 | 2066.3 | 2113.9 | 2165.1 | 2214.5 | 2260.2 | 2274.0 |
| 17.5° | 1913.6 | 1922.7 | 1963.9 | 2035.2 | 2115.7 | 2170.6 | 2215.4 | 2257.5 | 2300.5 | 2344.4 | 2350.8 |
| 20°   | 1995.0 | 2004.1 | 2059.0 | 2145.0 | 2240.1 | 2306.0 | 2336.2 | 2346.2 | 2367.3 | 2409.3 | 2414.8 |
| 22.5° | 2105.6 | 2114.8 | 2176.1 | 2273.0 | 2379.1 | 2450.5 | 2463.3 | 2439.5 | 2434.0 | 2467.0 | 2470.6 |
| 25°   | 2231.0 | 2239.2 | 2309.6 | 2413.9 | 2523.7 | 2601.4 | 2597.8 | 2539.2 | 2506.3 | 2526.4 | 2531.9 |
| 27.5° | 2371.8 | 2383.7 | 2455.1 | 2563.0 | 2681.9 | 2750.5 | 2739.5 | 2654.5 | 2584.0 | 2580.4 | 2582.2 |
| 30°   | 2552.0 | 2564.8 | 2632.5 | 2735.9 | 2853.0 | 2916.1 | 2893.2 | 2778.9 | 2670.0 | 2633.4 | 2633.4 |
| 32.5° | 2742.3 | 2774.3 | 2842.9 | 2950.8 | 3042.3 | 3088.0 | 3053.3 | 2916.1 | 2771.6 | 2720.3 | 2717.6 |
| 35°   | 2990.2 | 3007.5 | 3075.2 | 3180.4 | 3249.0 | 3284.7 | 3217.9 | 3070.7 | 2904.2 | 2843.8 | 2835.6 |
| 37.5° | 3232.6 | 3247.2 | 3325.9 | 3426.5 | 3509.7 | 3507.9 | 3417.3 | 3254.5 | 3068.8 | 3001.1 | 2995.7 |
| 40°   | 3480.4 | 3496.0 | 3585.6 | 3678.0 | 3761.3 | 3753.9 | 3644.2 | 3462.2 | 3264.6 | 3188.7 | 3203.3 |
| 42.5° | 3695.4 | 3712.8 | 3814.3 | 3946.0 | 4021.0 | 4019.2 | 3892.1 | 3687.2 | 3481.4 | 3413.7 | 3426.5 |
| 45°   | 3891.2 | 3906.7 | 4024.7 | 4175.6 | 4285.4 | 4299.1 | 4160.1 | 3943.3 | 3732.0 | 3645.1 | 3648.8 |
| 47.5° | 4029.3 | 4058.5 | 4182.0 | 4354.9 | 4504.0 | 4552.5 | 4416.2 | 4204.0 | 3960.7 | 3870.1 | 3875.6 |
| 50°   | 4134.5 | 4152.8 | 4287.2 | 4483.9 | 4672.3 | 4772.9 | 4663.2 | 4445.5 | 4189.3 | 4093.3 | 4106.1 |
| 52.5° | 4147.3 | 4169.2 | 4315.6 | 4542.4 | 4783.9 | 4936.7 | 4882.7 | 4681.5 | 4422.6 | 4323.8 | 4351.2 |
| 55°   | 4043.0 | 4055.8 | 4230.5 | 4505.8 | 4827.8 | 5058.3 | 5072.0 | 4901.0 | 4644.9 | 4569.9 | 4588.2 |
| 57.5° | 3745.7 | 3778.6 | 4000.0 | 4334.8 | 4767.4 | 5123.3 | 5213.8 | 5100.4 | 4869.9 | 4795.8 | 4825.1 |
| 60°   | 3258.2 | 3291.1 | 3513.4 | 3937.8 | 4539.7 | 5093.1 | 5330.9 | 5276.9 | 5073.9 | 5014.4 | 5030.0 |
| 62.5° | 2552.9 | 2550.2 | 2825.5 | 3346.0 | 4086.9 | 4944.9 | 5417.8 | 5447.1 | 5275.1 | 5200.1 | 5223.9 |
| 65°   | 1654.7 | 1662.9 | 1929.1 | 2489.8 | 3403.6 | 4568.0 | 5437.0 | 5663.8 | 5472.7 | 5359.3 | 5376.6 |
| 66°   | 1330.9 | 1355.6 | 1581.5 | 2098.3 | 3055.1 | 4321.1 | 5379.4 | 5727.9 | 5533.0 | 5395.8 | 5404.1 |
| 67.5° | 982.4  | 977.8  | 1163.5 | 1562.3 | 2439.5 | 3851.8 | 5199.2 | 5768.1 | 5601.6 | 5428.8 | 5432.4 |
| 70°   | 560.7  | 559.8  | 625.7  | 858.0  | 1434.3 | 2712.1 | 4382.3 | 5575.1 | 5740.7 | 5547.7 | 5537.6 |
| 72.5° | 409.8  | 407.0  | 416.2  | 473.8  | 699.7  | 1369.3 | 3023.1 | 4872.6 | 5669.3 | 5528.5 | 5500.1 |
| 75°   | 343.9  | 342.1  | 340.3  | 347.6  | 392.4  | 620.2  | 1604.4 | 3505.1 | 4919.3 | 5189.1 | 5159.8 |
| 77.5° | 280.8  | 280.8  | 281.7  | 279.9  | 281.7  | 326.5  | 665.0  | 1878.8 | 2995.7 | 3344.2 | 3425.6 |
| 80°   | 219.5  | 218.6  | 234.2  | 227.8  | 213.1  | 209.5  | 294.5  | 604.6  | 994.3  | 988.8  | 815.9  |
| 82.5° | 161.9  | 150.9  | 178.4  | 173.8  | 157.3  | 133.5  | 172.0  | 257.9  | 332.0  | 215.9  | 160.1  |
| 85°   | 102.4  | 101.5  | 126.2  | 115.3  | 96.0   | 63.1   | 82.3   | 110.7  | 137.2  | 83.2   | 67.7   |
| 87.5° | 18.3   | 17.4   | 40.2   | 29.3   | 29.3   | 18.3   | 22.9   | 30.2   | 44.8   | 31.1   | 22.9   |
| 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)