

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: P527598

Luminaire Tested: **GLAN-SA2C-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527598  
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-SA2C-827-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA 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: 9173 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 108  
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

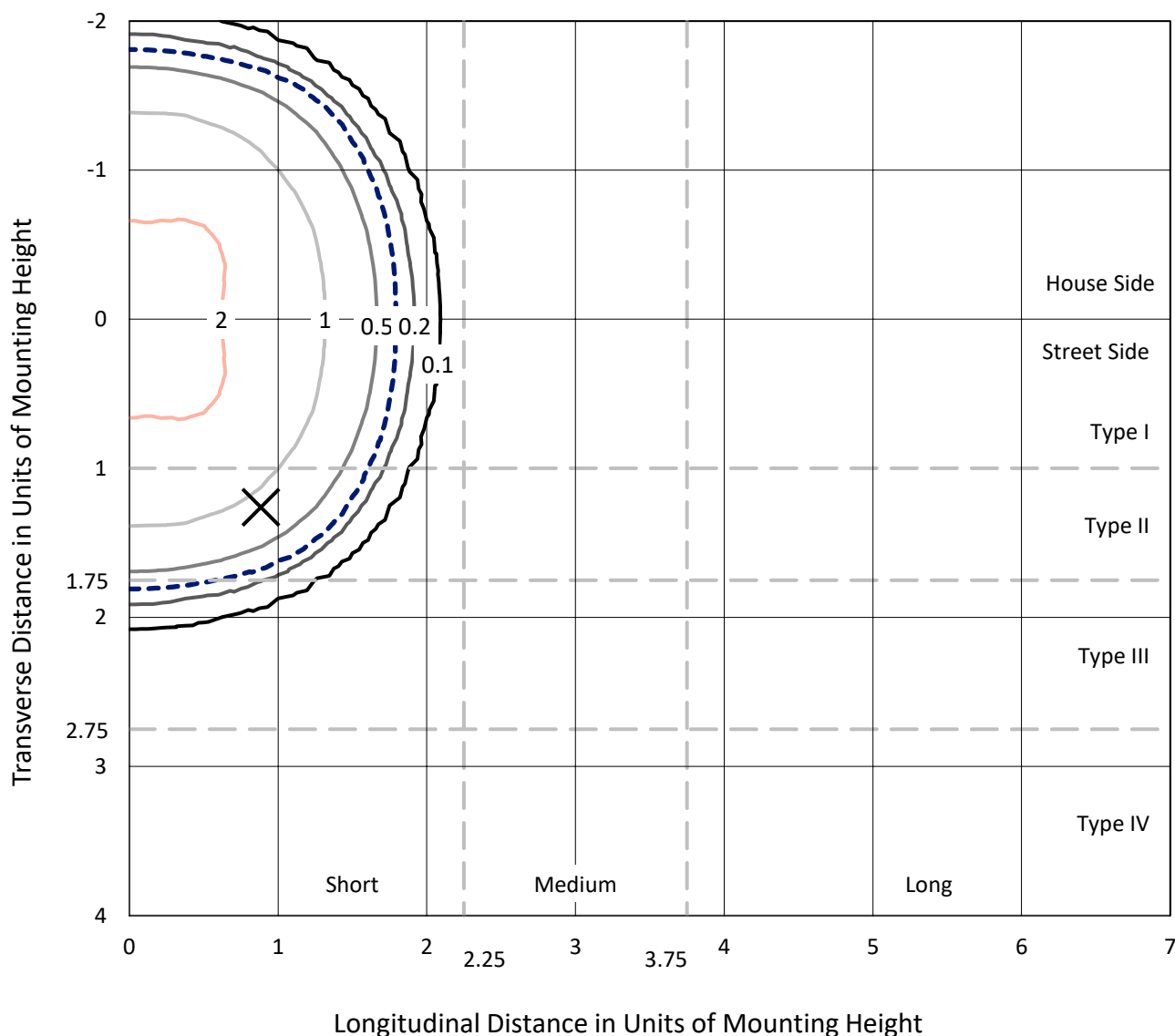


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## Iso-Footcandle Lines of Horizontal Illumination

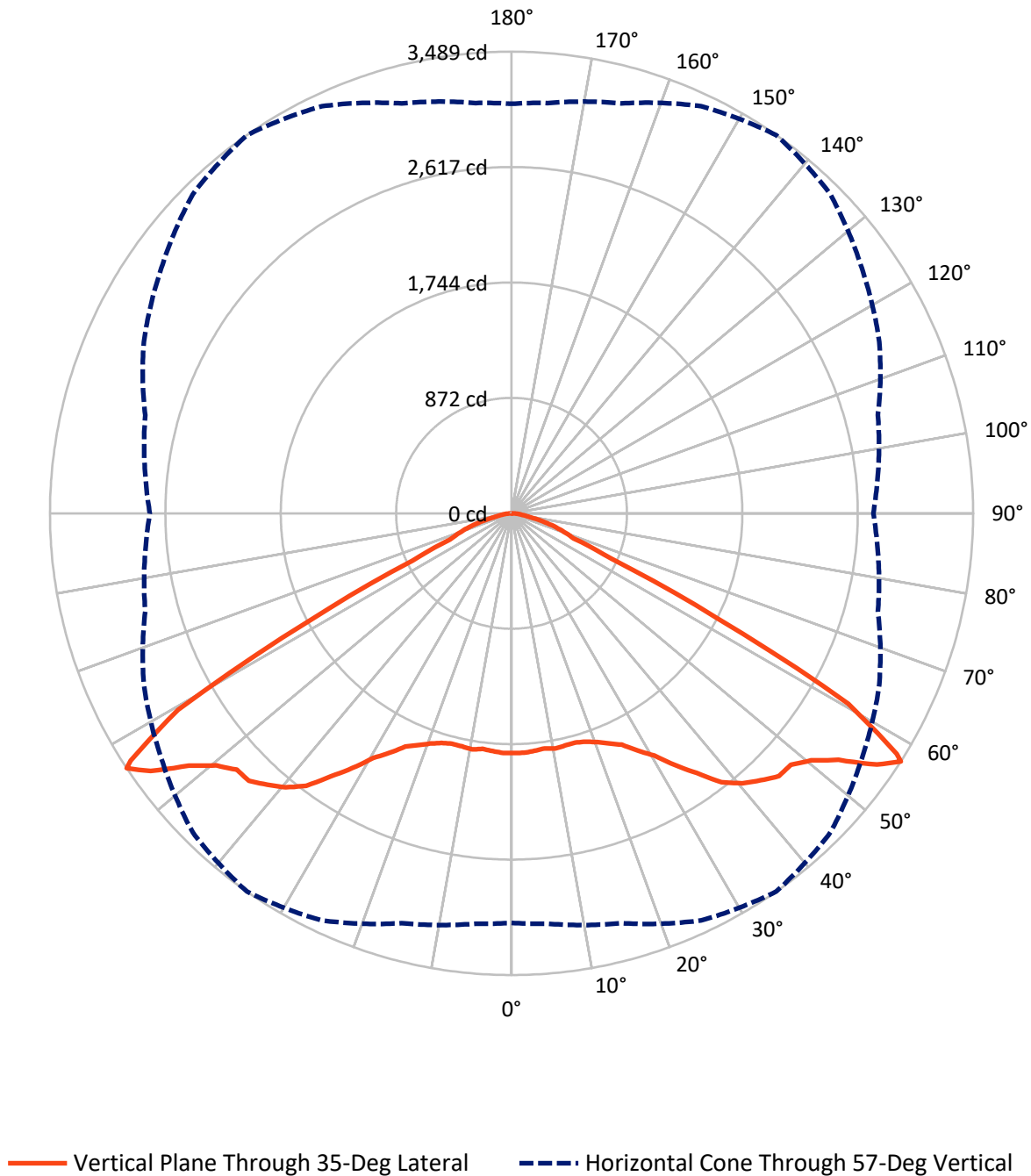
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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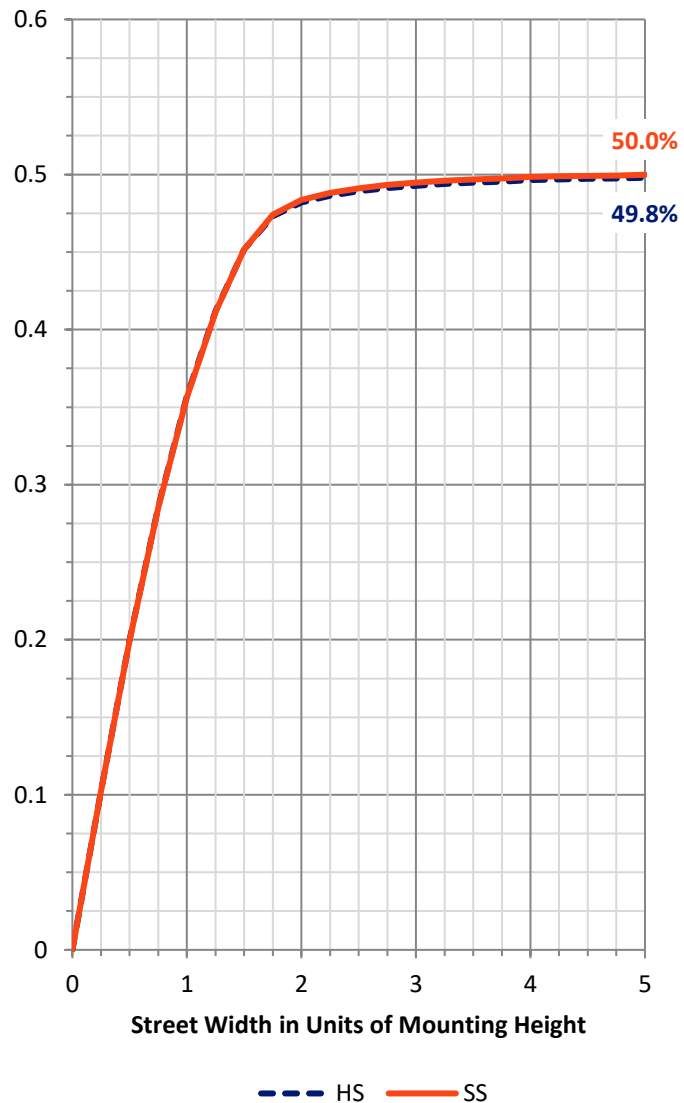
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4586.5   | 0.0    | 4586.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4586.5   | 0.0    | 4586.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9173.0   | 0.0    | 9173.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.7  | 1.9       |
| 10°-20°   | 508.7  | 5.5       |
| 20°-30°   | 888.4  | 9.7       |
| 30°-40°   | 1455.6 | 15.9      |
| 40°-50°   | 2134.3 | 23.3      |
| 50°-60°   | 2688.3 | 29.3      |
| 60°-70°   | 1011.1 | 11.0      |
| 70°-80°   | 268.8  | 2.9       |
| 80°-90°   | 46.1   | 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°    | 9173.0 | 100.0     |
| 0°-180°   | 9173.0 | 100.0     |

**Coefficient of Utilization**



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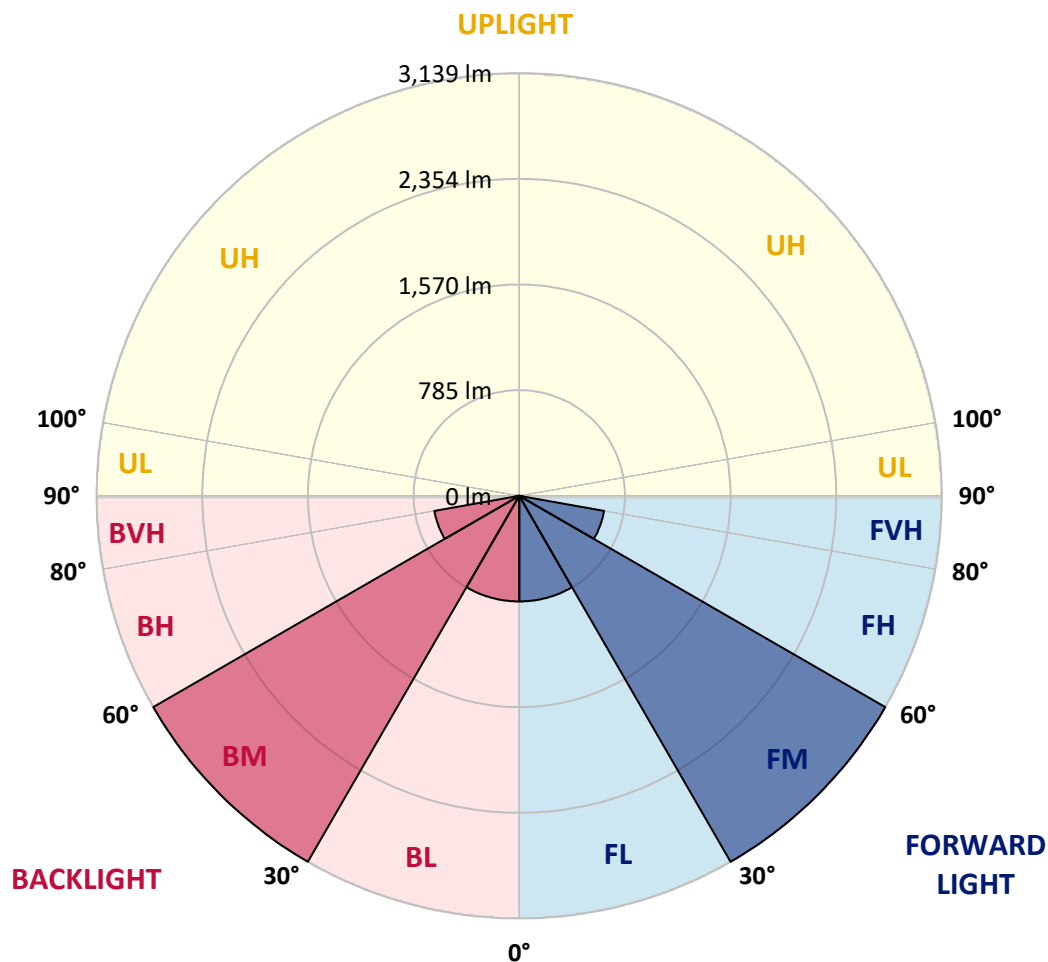
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 784.4  | 8.6       |                         |      |        |
| FM   | (30°-60°)   | 3139.1 | 34.2      |                         |      |        |
| FH   | (60°-80°)   | 639.9  | 7.0       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 23.0   | 0.3       |                         |      | G1/100 |
| BL   | (0°-30°)    | 784.4  | 8.6       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 3139.1 | 34.2      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 639.9  | 7.0       | B2/1000                 |      | G0/660 |
| BVH  | (80°-90°)   | 23.0   | 0.3       |                         |      | 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°    | 1811.6 | 1811.6 | 1811.6 | 1811.6 | 1811.6 | 1811.6 | 1811.6 | 1811.6 | 1811.6 | 1811.6 | 1811.6 |
| 2.5°  | 1802.6 | 1820.6 | 1812.7 | 1808.2 | 1811.6 | 1805.9 | 1796.9 | 1807.1 | 1804.8 | 1795.8 | 1792.4 |
| 5°    | 1798.0 | 1811.6 | 1802.6 | 1811.6 | 1802.6 | 1818.4 | 1813.9 | 1796.9 | 1817.3 | 1798.0 | 1804.8 |
| 7.5°  | 1794.6 | 1799.2 | 1801.4 | 1796.9 | 1793.5 | 1812.7 | 1802.6 | 1794.6 | 1783.3 | 1780.0 | 1785.6 |
| 10°   | 1786.7 | 1798.0 | 1781.1 | 1803.7 | 1808.2 | 1794.6 | 1794.6 | 1780.0 | 1770.9 | 1765.3 | 1784.5 |
| 12.5° | 1807.1 | 1787.9 | 1785.6 | 1796.9 | 1800.3 | 1805.9 | 1790.1 | 1782.2 | 1765.3 | 1767.5 | 1764.1 |
| 15°   | 1783.3 | 1791.3 | 1792.4 | 1794.6 | 1798.0 | 1811.6 | 1796.9 | 1780.0 | 1773.2 | 1749.4 | 1751.7 |
| 17.5° | 1792.4 | 1784.5 | 1792.4 | 1818.4 | 1813.9 | 1824.0 | 1808.2 | 1782.2 | 1766.4 | 1752.8 | 1770.9 |
| 20°   | 1808.2 | 1804.8 | 1808.2 | 1839.9 | 1845.5 | 1854.5 | 1841.0 | 1817.3 | 1786.7 | 1770.9 | 1780.0 |
| 22.5° | 1825.2 | 1822.9 | 1825.2 | 1855.7 | 1888.4 | 1899.8 | 1886.2 | 1830.8 | 1815.0 | 1785.6 | 1775.4 |
| 25°   | 1855.7 | 1857.9 | 1881.7 | 1915.6 | 1937.0 | 1958.5 | 1933.7 | 1894.1 | 1843.2 | 1825.2 | 1803.7 |
| 27.5° | 1923.5 | 1929.1 | 1942.7 | 1992.4 | 2029.7 | 2048.9 | 2013.9 | 1959.6 | 1928.0 | 1890.7 | 1885.1 |
| 30°   | 2007.1 | 2007.1 | 2030.8 | 2073.8 | 2124.6 | 2154.0 | 2111.1 | 2046.7 | 2008.2 | 1987.9 | 1975.5 |
| 32.5° | 2117.9 | 2105.4 | 2114.5 | 2190.2 | 2269.3 | 2294.2 | 2236.5 | 2157.4 | 2096.4 | 2069.3 | 2060.2 |
| 35°   | 2212.8 | 2220.7 | 2241.0 | 2322.4 | 2410.6 | 2468.2 | 2377.8 | 2275.0 | 2212.8 | 2187.9 | 2183.4 |
| 37.5° | 2336.0 | 2349.5 | 2359.7 | 2471.6 | 2577.8 | 2599.3 | 2512.3 | 2429.8 | 2354.1 | 2333.7 | 2322.4 |
| 40°   | 2510.0 | 2501.0 | 2504.4 | 2586.9 | 2682.9 | 2696.5 | 2610.6 | 2551.8 | 2489.7 | 2477.2 | 2477.2 |
| 42.5° | 2653.5 | 2643.4 | 2654.7 | 2685.2 | 2758.6 | 2748.5 | 2701.0 | 2658.1 | 2632.1 | 2618.5 | 2632.1 |
| 45°   | 2740.6 | 2738.3 | 2758.6 | 2781.3 | 2833.2 | 2799.3 | 2762.0 | 2768.8 | 2744.0 | 2721.4 | 2720.2 |
| 47.5° | 2835.5 | 2820.8 | 2845.7 | 2879.6 | 2840.0 | 2824.2 | 2821.9 | 2836.6 | 2828.7 | 2789.2 | 2776.7 |
| 50°   | 2881.8 | 2876.2 | 2915.7 | 2955.3 | 2933.8 | 2897.7 | 2905.6 | 2929.3 | 2827.6 | 2774.5 | 2744.0 |
| 52.5° | 3006.1 | 3007.3 | 3083.0 | 3104.5 | 3095.4 | 3042.3 | 3059.3 | 2994.8 | 2875.1 | 2800.5 | 2803.9 |
| 55°   | 3201.7 | 3193.8 | 3278.5 | 3341.8 | 3352.0 | 3284.2 | 3202.8 | 3112.4 | 2962.1 | 2886.4 | 2863.8 |
| 57°   | 3094.3 | 3112.4 | 3206.2 | 3393.8 | 3488.7 | 3408.5 | 3231.0 | 3066.0 | 2866.0 | 2774.5 | 2733.8 |
| 57.5° | 2950.8 | 2980.2 | 3142.9 | 3331.6 | 3431.1 | 3424.3 | 3196.0 | 2980.2 | 2801.6 | 2659.2 | 2662.6 |
| 60°   | 2161.9 | 2167.6 | 2314.5 | 2614.0 | 2924.8 | 2931.6 | 2653.5 | 2367.6 | 2168.7 | 2013.9 | 2035.4 |
| 62.5° | 1140.3 | 1166.3 | 1225.1 | 1465.8 | 1734.8 | 1800.3 | 1631.9 | 1485.0 | 1313.2 | 1195.7 | 1207.0 |
| 65°   | 603.5  | 600.1  | 628.4  | 696.2  | 828.4  | 862.3  | 839.7  | 723.3  | 663.4  | 644.2  | 645.3  |
| 67.5° | 490.5  | 496.1  | 492.7  | 496.1  | 505.2  | 519.9  | 516.5  | 521.0  | 524.4  | 530.0  | 528.9  |
| 70°   | 415.9  | 415.9  | 418.1  | 419.3  | 419.3  | 426.1  | 434.0  | 448.7  | 449.8  | 455.4  | 457.7  |
| 72.5° | 327.7  | 325.5  | 328.9  | 336.8  | 337.9  | 343.6  | 354.9  | 363.9  | 367.3  | 367.3  | 360.5  |
| 75°   | 222.6  | 224.9  | 229.4  | 236.2  | 243.0  | 253.1  | 262.2  | 267.8  | 270.1  | 266.7  | 263.3  |
| 77.5° | 125.4  | 127.7  | 131.1  | 141.3  | 149.2  | 158.2  | 168.4  | 174.0  | 179.7  | 180.8  | 174.0  |
| 80°   | 74.6   | 74.6   | 80.2   | 88.2   | 97.2   | 106.2  | 115.3  | 122.1  | 124.3  | 124.3  | 120.9  |
| 82.5° | 45.2   | 46.3   | 50.9   | 58.8   | 66.7   | 72.3   | 80.2   | 85.9   | 90.4   | 89.3   | 87.0   |
| 85°   | 23.7   | 23.7   | 28.3   | 35.0   | 40.7   | 46.3   | 46.3   | 42.9   | 40.7   | 35.0   | 32.8   |
| 87.5° | 7.9    | 6.8    | 9.0    | 9.0    | 7.9    | 9.0    | 9.0    | 10.2   | 10.2   | 10.2   | 10.2   |
| 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)